

**Technical Report for**

**EquoLogic**

T10000003424-San Lorenzo, CA

409.01.01

Accutest Job Number: C25941

**RECEIVED**

*By Alameda County Environmental Health at 2:14 pm, May 23, 2013*

Sampling Date: 01/26/13

**Report to:**

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Total number of pages in report: **282**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



**James J. Rhudy**  
Lab Director

**Client Service contact: Nutan Kabir 408-588-0200**

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

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Test results relate only to samples analyzed.

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## Sample Summary

EquoLogic

**Job No:** C25941

T10000003424-San Lorenzo, CA

Project No: 409.01.01

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C25941-1	01/26/13	00:00 LD	01/28/13	SO	Soil	B-5@5'
C25941-2	01/26/13	00:00 LD	01/28/13	SO	Soil	B-5@15'
C25941-3	01/26/13	00:00 LD	01/28/13	SO	Soil	B-5@20'
C25941-4	01/26/13	00:00 LD	01/28/13	SO	Soil	B-5@25'
C25941-5	01/26/13	00:00 LD	01/28/13	SO	Soil	B-6@2 1/2'
C25941-6	01/26/13	00:00 LD	01/28/13	SO	Soil	B-6@5'
C25941-7	01/26/13	00:00 LD	01/28/13	SO	Soil	B-6@10'
C25941-8	01/26/13	00:00 LD	01/28/13	SO	Soil	B-6@15'
C25941-9	01/26/13	00:00 LD	01/28/13	SO	Soil	B-7@2 1/2'
C25941-10	01/26/13	00:00 LD	01/28/13	SO	Soil	B-7@5'
C25941-11	01/26/13	00:00 LD	01/28/13	SO	Soil	B-7@10'
C25941-12	01/26/13	00:00 LD	01/28/13	SO	Soil	B-7@15'
C25941-13	01/26/13	00:00 LD	01/28/13	SO	Soil	B-8@2 1/2'

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

EquoLogic

**Job No:** C25941

T10000003424-San Lorenzo, CA  
 Project No: 409.01.01

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C25941-14	01/26/13	00:00 LD	01/28/13	SO	Soil	B-8@5'
C25941-15	01/26/13	00:00 LD	01/28/13	SO	Soil	B-8@10'
C25941-16	01/26/13	00:00 LD	01/28/13	SO	Soil	B-8@15'
C25941-17	01/26/13	00:00 LD	01/28/13	SO	Soil	B-9@2 1/2'
C25941-18	01/26/13	00:00 LD	01/28/13	SO	Soil	B-9@5'
C25941-19	01/26/13	00:00 LD	01/28/13	SO	Soil	B-9@10'
C25941-20	01/26/13	00:00 LD	01/28/13	SO	Soil	B-9@15'

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** C25941  
**Account:** EquoLogic  
**Project:** T10000003424-San Lorenzo, CA  
**Collected:** 01/26/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>C25941-1</b>	<b>B-5@5'</b>					
TPH (Motor Oil)		19.0 J	20	9.9	mg/kg	SW846 8015B M
<b>C25941-2</b>	<b>B-5@15'</b>					
No hits reported in this sample.						
<b>C25941-3</b>	<b>B-5@20'</b>					
No hits reported in this sample.						
<b>C25941-4</b>	<b>B-5@25'</b>					
TPH (Diesel) <sup>a</sup>		8.69 J	9.9	5.0	mg/kg	SW846 8015B M
<b>C25941-5</b>	<b>B-6@2 1/2'</b>					
TPH (Motor Oil)		375	200	100	mg/kg	SW846 8015B M
<b>C25941-6</b>	<b>B-6@5'</b>					
Ethylbenzene		2.2 J	4.9	0.49	ug/kg	SW846 8260B
Xylene (total)		13.4	9.8	0.98	ug/kg	SW846 8260B
<b>C25941-7</b>	<b>B-6@10'</b>					
Ethylbenzene		7.9	4.9	0.49	ug/kg	SW846 8260B
Xylene (total)		53.5	9.7	0.97	ug/kg	SW846 8260B
<b>C25941-8</b>	<b>B-6@15'</b>					
No hits reported in this sample.						
<b>C25941-9</b>	<b>B-7@2 1/2'</b>					
TPH (Diesel) <sup>b</sup>		69.7	30	15	mg/kg	SW846 8015B M
TPH (Motor Oil) <sup>c</sup>		183	60	30	mg/kg	SW846 8015B M
<b>C25941-10</b>	<b>B-7@5'</b>					
TPH (Motor Oil)		55.6	20	9.9	mg/kg	SW846 8015B M

## Summary of Hits

**Job Number:** C25941  
**Account:** EquoLogic  
**Project:** T10000003424-San Lorenzo, CA  
**Collected:** 01/26/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**C25941-11 B-7@10'**

TPH (Motor Oil) 30.2 20 10 mg/kg SW846 8015B M

**C25941-12 B-7@15'**

TPH (Motor Oil) 18.4 J 20 9.9 mg/kg SW846 8015B M

**C25941-13 B-8@2 1/2'**

No hits reported in this sample.

**C25941-14 B-8@5'**

TPH (Motor Oil) 22.5 20 10 mg/kg SW846 8015B M

**C25941-15 B-8@10'**

TPH (Motor Oil) 17.9 J 20 9.9 mg/kg SW846 8015B M

**C25941-16 B-8@15'**

TPH (Motor Oil) 15.7 J 20 10 mg/kg SW846 8015B M

**C25941-17 B-9@2 1/2'**

TPH (Motor Oil) 138 59 30 mg/kg SW846 8015B M

**C25941-18 B-9@5'**

No hits reported in this sample.

**C25941-19 B-9@10'**

No hits reported in this sample.

**C25941-20 B-9@15'**

No hits reported in this sample.

- (a) Atypical Diesel pattern; value due to discrete peaks.
- (b) Heating Oil is not a unique pattern. Historically Heating oil has been various petroleum hydrocarbon mixtures from C10-C40; this includes the Diesel and Motor Oil ranges. Therefore TPH in either range could be Heating Oil.
- (c) Heating Oil is not a unique pattern. Historically Heating Oil has been various petroleum hydrocarbon mixtures

## Summary of Hits

**Job Number:** C25941  
**Account:** EquoLogic  
**Project:** T10000003424-San Lorenzo, CA  
**Collected:** 01/26/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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from C10-C40; this includes the Diesel and Motor Oil ranges. Therefore TPH in either range could be Heating Oil.



Sample Results

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Report of Analysis

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## Report of Analysis

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<b>Client Sample ID:</b> B-5@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-1		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22476.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

Run #1	Initial Weight
Run #1	5.03 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-5@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-1		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y18818.D	1	01/30/13	MT	01/28/13	OP7407	EY883
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	79	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		15-101%
321-60-8	2-Fluorobiphenyl	85%		15-104%
1718-51-0	Terphenyl-d14	108%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

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<b>Client Sample ID:</b> B-5@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-1		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40968.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	19.0	20	9.9	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	68%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-5@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-2		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22477.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

Run #1	Initial Weight
Run #1	5.08 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-5@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-2		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y18786.D	1	01/30/13	MT	01/28/13	OP7407	EY882
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		15-101%
321-60-8	2-Fluorobiphenyl	64%		15-104%
1718-51-0	Terphenyl-d14	102%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-5@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-2		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40969.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	69%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-5@20'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-3		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22478.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

	Initial Weight
Run #1	5.08 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-5@20'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-3		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	Y18819.D	1	01/30/13	MT	01/28/13	OP7407	EY883

Run #1	Initial Weight	Final Volume
Run #2	30.0 g	1.0 ml

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		15-101%
321-60-8	2-Fluorobiphenyl	75%		15-104%
1718-51-0	Terphenyl-d14	109%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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 Laboratories

## Report of Analysis

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<b>Client Sample ID:</b> B-5@20'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-3		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40970.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	4.9	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	77%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-5@25'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-4		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22481.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

	Initial Weight
Run #1	5.02 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-5@25'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-4		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y18820.D	1	01/30/13	MT	01/28/13	OP7407	EY883
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		15-101%
321-60-8	2-Fluorobiphenyl	84%		15-104%
1718-51-0	Terphenyl-d14	109%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-5@25'	<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-4	<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A	
<b>Project:</b> T10000003424-San Lorenzo, CA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40971.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) <sup>b</sup>	8.69	9.9	5.0	mg/kg	J
	TPH (Motor Oil)	ND	20	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	70%		37-122%

(a) All results reported on a wet weight basis.

(b) Atypical Diesel pattern; value due to discrete peaks.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-6@2 1/2'	
<b>Lab Sample ID:</b> C25941-5	<b>Date Sampled:</b> 01/26/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 01/28/13
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Project:</b> T10000003424-San Lorenzo, CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22482.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

	Initial Weight
Run #1	5.17 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-88-3	Toluene	ND	4.8	0.48	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	0.48	ug/kg	
1330-20-7	Xylene (total)	ND	9.7	0.97	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	0.97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-6@2 1/2'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-5		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>b</sup>	Y18813.D	4	01/30/13	MT	01/28/13	OP7407	EY883
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	660	290	ug/kg	
208-96-8	Acenaphthylene	ND	660	310	ug/kg	
120-12-7	Anthracene	ND	660	210	ug/kg	
56-55-3	Benzo(a)anthracene	ND	660	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	660	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	660	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	660	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	660	130	ug/kg	
218-01-9	Chrysene	ND	660	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	660	160	ug/kg	
206-44-0	Fluoranthene	ND	660	130	ug/kg	
86-73-7	Fluorene	ND	660	290	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	660	170	ug/kg	
90-12-0	1-Methylnaphthalene	ND	660	300	ug/kg	
91-57-6	2-Methylnaphthalene	ND	660	320	ug/kg	
91-20-3	Naphthalene	ND	660	310	ug/kg	
85-01-8	Phenanthrene	ND	660	230	ug/kg	
129-00-0	Pyrene	ND	660	130	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		15-101%
321-60-8	2-Fluorobiphenyl	87%		15-104%
1718-51-0	Terphenyl-d14	110%		56-123%

(a) All results reported on a wet weight basis.

(b) Dilution required due to matrix interference (dark and viscous extract; high concentration of non-target hydrocarbons).

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-6@2 1/2'	<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-5	<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A	
<b>Project:</b> T10000003424-San Lorenzo, CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40966.D	10	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	100	50	mg/kg	
	TPH (Motor Oil)	375	200	100	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	74%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-6@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-6		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22483.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

Run #1	Initial Weight
Run #1	5.08 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	2.2	4.9	0.49	ug/kg	J
1330-20-7	Xylene (total)	13.4	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-6@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-6		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2061.D	1	01/30/13	MT	01/28/13	OP7407	EZ105
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	92%		15-101%
321-60-8	2-Fluorobiphenyl	82%		15-104%
1718-51-0	Terphenyl-d14	103%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-6@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-6		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40972.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	64%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-6@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-7		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22484.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

Run #1	Initial Weight
Run #1	5.15 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	7.9	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	53.5	9.7	0.97	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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 Laboratories

## Report of Analysis

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<b>Client Sample ID:</b> B-6@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-7		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>b</sup>	Y18814.D	2	01/30/13	MT	01/28/13	OP7407	EY883
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	150	ug/kg	
208-96-8	Acenaphthylene	ND	330	160	ug/kg	
120-12-7	Anthracene	ND	330	110	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	67	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	67	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	67	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	86	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	67	ug/kg	
218-01-9	Chrysene	ND	330	67	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	82	ug/kg	
206-44-0	Fluoranthene	ND	330	67	ug/kg	
86-73-7	Fluorene	ND	330	140	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	85	ug/kg	
90-12-0	1-Methylnaphthalene	ND	330	150	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	160	ug/kg	
91-20-3	Naphthalene	ND	330	150	ug/kg	
85-01-8	Phenanthrene	ND	330	120	ug/kg	
129-00-0	Pyrene	ND	330	67	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		15-101%
321-60-8	2-Fluorobiphenyl	76%		15-104%
1718-51-0	Terphenyl-d14	106%		56-123%

(a) All results reported on a wet weight basis.

(b) Dilution required due to matrix interference (dark and viscous extract; high concentration of non-target hydrocarbons).

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-6@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-7		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40973.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	61%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

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<b>Client Sample ID:</b> B-6@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-8		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22485.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

	Initial Weight
Run #1	5.20 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-88-3	Toluene	ND	4.8	0.48	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	0.48	ug/kg	
1330-20-7	Xylene (total)	ND	9.6	0.96	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	0.96	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-6@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-8		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2062.D	1	01/30/13	MT	01/28/13	OP7407	EZ105
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	93%		15-101%
321-60-8	2-Fluorobiphenyl	83%		15-104%
1718-51-0	Terphenyl-d14	101%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-6@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-8		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40974.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	63%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-7@2 1/2'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-9		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22486.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

	Initial Weight
Run #1	5.05 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

<b>Client Sample ID:</b> B-7@2 1/2'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-9		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>b</sup>	Y18815.D	10	01/30/13	MT	01/28/13	OP7407	EY883
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1700	730	ug/kg	
208-96-8	Acenaphthylene	ND	1700	780	ug/kg	
120-12-7	Anthracene	ND	1700	540	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1700	330	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1700	330	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1700	330	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1700	430	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1700	330	ug/kg	
218-01-9	Chrysene	ND	1700	330	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1700	410	ug/kg	
206-44-0	Fluoranthene	ND	1700	330	ug/kg	
86-73-7	Fluorene	ND	1700	720	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1700	430	ug/kg	
90-12-0	1-Methylnaphthalene	ND	1700	760	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1700	800	ug/kg	
91-20-3	Naphthalene	ND	1700	770	ug/kg	
85-01-8	Phenanthrene	ND	1700	580	ug/kg	
129-00-0	Pyrene	ND	1700	330	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		15-101%
321-60-8	2-Fluorobiphenyl	82%		15-104%
1718-51-0	Terphenyl-d14	106%		56-123%

(a) All results reported on a wet weight basis.

(b) Dilution required due to matrix interference (dark and viscous extract; high concentration of non-target hydrocarbons).

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-7@2 1/2'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-9		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40975.D	3	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) <sup>b</sup>	69.7	30	15	mg/kg	
	TPH (Motor Oil) <sup>c</sup>	183	60	30	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	70%		37-122%

(a) All results reported on a wet weight basis.

(b) Heating Oil is not a unique pattern. Historically Heating oil has been various petroleum hydrocarbon mixtures from C10-C40; this includes the Diesel and Motor Oil ranges. Therefore TPH in either range could be Heating Oil.

(c) Heating Oil is not a unique pattern. Historically Heating Oil has been various petroleum hydrocarbon mixtures from C10-C40; this includes the Diesel and Motor Oil ranges. Therefore TPH in either range could be Heating Oil.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-7@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-10		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22487.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

Run #1	Initial Weight
Run #1	5.02 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-7@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-10		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>b</sup>	Y18816.D	2	01/30/13	MT	01/28/13	OP7407	EY883
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	150	ug/kg	
208-96-8	Acenaphthylene	ND	330	160	ug/kg	
120-12-7	Anthracene	ND	330	110	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	66	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	66	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	66	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	86	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	66	ug/kg	
218-01-9	Chrysene	ND	330	66	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	82	ug/kg	
206-44-0	Fluoranthene	ND	330	66	ug/kg	
86-73-7	Fluorene	ND	330	140	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	85	ug/kg	
90-12-0	1-Methylnaphthalene	ND	330	150	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	160	ug/kg	
91-20-3	Naphthalene	ND	330	150	ug/kg	
85-01-8	Phenanthrene	ND	330	120	ug/kg	
129-00-0	Pyrene	ND	330	66	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		15-101%
321-60-8	2-Fluorobiphenyl	85%		15-104%
1718-51-0	Terphenyl-d14	103%		56-123%

(a) All results reported on a wet weight basis.

(b) Dilution required due to matrix interference (dark and viscous extract; high concentration of non-target hydrocarbons).

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-7@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-10		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40979.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	55.6	20	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	80%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-7@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-11		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22488.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

Run #1	Initial Weight
Run #1	5.00 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-7@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-11		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2063.D	1	01/30/13	MT	01/28/13	OP7407	EZ105
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	96%		15-101%
321-60-8	2-Fluorobiphenyl	87%		15-104%
1718-51-0	Terphenyl-d14	105%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-7@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-11		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40980.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	30.2	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	76%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-7@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-12		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22489.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

Run #1	Initial Weight
Run #1	5.10 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

<b>Client Sample ID:</b> B-7@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-12		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2064.D	1	01/30/13	MT	01/28/13	OP7407	EZ105
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	53	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	42	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	79	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		15-101%
321-60-8	2-Fluorobiphenyl	75%		15-104%
1718-51-0	Terphenyl-d14	97%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-7@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-12		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40981.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	18.4	20	9.9	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	75%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-8@2 1/2'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-13		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22490.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

Run #	Initial Weight
Run #1	5.02 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-8@2 1/2'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-13		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2065.D	1	01/30/13	MT	01/28/13	OP7407	EZ105
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	79	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		15-101%
321-60-8	2-Fluorobiphenyl	74%		15-104%
1718-51-0	Terphenyl-d14	96%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-8@2 1/2'	<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-13	<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A	
<b>Project:</b> T10000003424-San Lorenzo, CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40982.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	70%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-8@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-14		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22491.D	1	02/02/13	XB	n/a	n/a	VL712
Run #2							

	Initial Weight
Run #1	5.07 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-8@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-14		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y18827.D	1	01/31/13	MT	01/28/13	OP7407	EY883
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		15-101%
321-60-8	2-Fluorobiphenyl	78%		15-104%
1718-51-0	Terphenyl-d14	109%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-8@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-14		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40983.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	22.5	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	70%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-8@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-15		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22542.D	1	02/05/13	XB	n/a	n/a	VL714
Run #2							

	Initial Weight
Run #1	5.02 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-8@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-15		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y18821.D	1	01/30/13	MT	01/29/13	OP7411	EY883
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	79	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		15-101%
321-60-8	2-Fluorobiphenyl	82%		15-104%
1718-51-0	Terphenyl-d14	107%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

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<b>Client Sample ID:</b> B-8@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-15		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40984.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	17.9	20	9.9	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	57%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-8@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-16		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22543.D	1	02/05/13	XB	n/a	n/a	VL714
Run #2							

	Initial Weight
Run #1	5.13 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.7	0.97	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

<b>Client Sample ID:</b> B-8@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-16		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y18810.D	1	01/30/13	MT	01/29/13	OP7411	EY883
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	53	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	42	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	79	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		15-101%
321-60-8	2-Fluorobiphenyl	85%		15-104%
1718-51-0	Terphenyl-d14	110%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-8@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-16		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40985.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	15.7	20	10	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	72%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-9@2 1/2'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-17		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22544.D	1	02/05/13	XB	n/a	n/a	VL714
Run #2							

	Initial Weight
Run #1	5.04 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

<b>Client Sample ID:</b> B-9@2 1/2'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-17		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>b</sup>	Y18817.D	10	01/30/13	MT	01/29/13	OP7411	EY883
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1700	730	ug/kg	
208-96-8	Acenaphthylene	ND	1700	780	ug/kg	
120-12-7	Anthracene	ND	1700	540	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1700	330	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1700	330	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1700	330	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1700	430	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1700	330	ug/kg	
218-01-9	Chrysene	ND	1700	330	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1700	410	ug/kg	
206-44-0	Fluoranthene	ND	1700	330	ug/kg	
86-73-7	Fluorene	ND	1700	720	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1700	430	ug/kg	
90-12-0	1-Methylnaphthalene	ND	1700	760	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1700	800	ug/kg	
91-20-3	Naphthalene	ND	1700	770	ug/kg	
85-01-8	Phenanthrene	ND	1700	580	ug/kg	
129-00-0	Pyrene	ND	1700	330	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		15-101%
321-60-8	2-Fluorobiphenyl	83%		15-104%
1718-51-0	Terphenyl-d14	99%		56-123%

(a) All results reported on a wet weight basis.

(b) Dilution required due to matrix interference (dark and viscous extract; high concentration of non-target hydrocarbons).

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-9@2 1/2'	<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-17	<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A	
<b>Project:</b> T10000003424-San Lorenzo, CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40990.D	3	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	30	15	mg/kg	
	TPH (Motor Oil)	138	59	30	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	70%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-9@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-18		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22545.D	1	02/05/13	XB	n/a	n/a	VL714
Run #2							

Run #	Initial Weight
Run #1	5.12 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-9@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-18		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y18811.D	1	01/30/13	MT	01/29/13	OP7411	EY883
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	79	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		15-101%
321-60-8	2-Fluorobiphenyl	81%		15-104%
1718-51-0	Terphenyl-d14	111%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-9@5'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-18		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40986.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	65%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-9@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-19		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22520.D	1	02/04/13	XB	n/a	n/a	VL713
Run #2							

	Initial Weight
Run #1	5.05 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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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<b>Client Sample ID:</b> B-9@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-19		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y18812.D	1	01/30/13	MT	01/29/13	OP7411	EY883
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		15-101%
321-60-8	2-Fluorobiphenyl	77%		15-104%
1718-51-0	Terphenyl-d14	108%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-9@10'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-19		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40987.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	60%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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 Laboratories

## Report of Analysis

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<b>Client Sample ID:</b> B-9@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-20		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8260B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L22517.D	1	02/04/13	XB	n/a	n/a	VL713
Run #2							

	Initial Weight
Run #1	5.02 g
Run #2	

## Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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 Laboratories

## Report of Analysis

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<b>Client Sample ID:</b> B-9@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-20		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8270C SW846 3550B		
<b>Project:</b> T10000003424-San Lorenzo, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y18783.D	1	01/30/13	MT	01/29/13	OP7411	EY882
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		15-101%
321-60-8	2-Fluorobiphenyl	80%		15-104%
1718-51-0	Terphenyl-d14	110%		56-123%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting 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

<b>Client Sample ID:</b> B-9@15'		<b>Date Sampled:</b> 01/26/13
<b>Lab Sample ID:</b> C25941-20		<b>Date Received:</b> 01/28/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Method:</b> SW846 8015B M SW846 3545A		
<b>Project:</b> T10000003424-San Lorenzo, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG40988.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

## TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	59%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting 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

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



**CHAIN OF CUSTODY**

2105 Lundy Ave, San Jose, CA 95131  
 (408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # \_\_\_\_\_ Bottle Order Control # \_\_\_\_\_  
 Accutest Quote # \_\_\_\_\_ Accutest NC Job #: **C25941**

**Client / Reporting Information**  
 Company Name: **Equologic**  
 Address: **1095 Brahman Ln.**  
 City: **San Jose CA**  
 Project Contact: **Lee Dooley**  
 Phone #: **(408) 656-2505**  
 Sampler's Name: **Lee Dooley**

**Project Information**  
 Project Name: **San Lorenzo High School**  
 Street: **50 Lewellyn**  
 City: **San Lorenzo CA**  
 Project #: \_\_\_\_\_  
 EMAIL: **Ldooley@equologicgroup.com**  
 Client Purchase Order #: \_\_\_\_\_

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles														
							10	100	1000	10000	NONE	unlabeled	MICH	ENDURE	TPH-d (8019)	STEX (8208)	MYRE (8208)	PAHs (8208)			
-1	B-5 @ 5'	1/24/08		LD	S	1												X	X	X	X
-2	B-5 @ 15'																				
-3	B-5 @ 20'																				
-4	B-5 @ 25'																				
-5	B-6 @ 2 1/2'																				
-6	B-6 @ 5'																				
-7	B-6 @ 10'																				
-8	B-6 @ 15'																				
-9	B-7 @ 2 1/2'																				
-10	B-7 @ 5'																				

**Requested Analysis**

**Matrix Codes**  
 WW- Wastewater  
 GW- Ground Water  
 SW- Surface Water  
 SO- Soil  
 OI- Oil  
 WP- Wipe  
 LIQ- Non-aqueous Liquid  
 AIR- Drinking Water (Perchlorate Only)

**LAB USE ONLY**

**Turnaround Time (Business days)**

10 Day  
 5 Day  
 3 Day (125% markup)  
 2 Day (150% markup)  
 1 Day (200% markup)  
 Same Day (300% markup)

Approved By / Date: \_\_\_\_\_

**Data Deliverable Information**

Commercial "A" - Results only  
 Commercial "B" - Results with QC summaries  
 Commercial "B+" - Results, QC, and chromatograms  
 FULT1 - Level 4 data package  
 EDF for Geotracker  EDD Format  
 Provide EDF Global ID \_\_\_\_\_  
 Provide EDF Logcode: \_\_\_\_\_

**Comments / Remarks**

\* indicate pattern for heating oil if present

**Emergency T/A data available VIA Lablink**

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

1 Relinquished by: <i>R. Dooley</i> Date Time: 01/28/13 12:50	Received By: <i>[Signature]</i> Date Time: _____	2 Relinquished By: _____ Date Time: _____	Received By: _____ Date Time: _____
3 Relinquished by: _____ Date Time: _____	Received By: _____ Date Time: _____	4 Custody Seal # _____ Appropriate Bottle / Pres: <input checked="" type="checkbox"/> N Labels match Coc? <input checked="" type="checkbox"/> N	Received By: _____ Date Time: _____ Headspace Y/N: <b>NA</b> On Ice: <input checked="" type="checkbox"/> N Cooler Temp: <b>5.6</b>
5 Relinquished by: _____ Date Time: _____	Received By: _____ Date Time: _____	Separate Receiving Check List used: <input checked="" type="checkbox"/> N	

1 of 2

**CHAIN OF CUSTODY**

2105 Lundy Ave, San Jose, CA 95131  
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #		Bottle Order Control #																			
Accutest Quote #		Accutest NC Job #: C 25941																			
Client / Reporting Information		Project Information																			
Company Name: <u>Equis Logic</u>		Project Name: <u>San Loren 20 High School</u>																			
Address: <u>1295 Breckman Lane</u>		Street																			
City: <u>San Jose CA</u>		City: State																			
Project Contact: <u>Loe Dooley</u>		Project #																			
Phone #: <u>408 656-2505</u>		EMAIL:																			
Sampler's Name: <u>Loe Dooley</u>		Client Purchase Order #																			
Accutest Sample ID	Sample ID / Field Point / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles											Requested Analysis	Matrix Codes		
							PH	PH-0	PH-1	PH-2	PH-3	PH-4	PH-5	PH-6	PH-7	PH-8	PH-9			PH-10	PH-11
-11	B-70 10	1/24/13		LD	SO	1															W-W: Wastewater GW: Ground Water SW: Surface Water SO: Soil OI: Oil WP: Wipe LLO: Non-aqueous Liquid AIR DW: Drinking Water (Perchlorate Only)
-12	B-70 15																				
-13	B-80 2 1/2																				
-14	B-80 5																				
-15	B-80 10																				
-16	B-80 15																				
-17	B-90 2 1/2																				
-18	B-90 5																				
-19	B-90 10																				
-20	B-90 15																				
Turnaround Time (Business days)		Approved By/Date:			Data Deliverable Information							Comments / Remarks									
<input checked="" type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day (125% markup) <input type="checkbox"/> 2 Day (150% markup) <input type="checkbox"/> 1 Day (200% markup) <input type="checkbox"/> Same Day (300% markup)					<input type="checkbox"/> Commercial "A" - Results only <input checked="" type="checkbox"/> Commercial "B" - Results with QC summaries <input type="checkbox"/> Commercial "B+" - Results, QC, and chromatograms <input type="checkbox"/> FULT1 - Level 4 data package <input type="checkbox"/> EDF for Geotracker <input type="checkbox"/> EDD Format Provide EDF Global ID: _____ Provide EDF Logcode: _____							* Indicate pattern for heating oil if present									
Emergency T/A data available VIA Lablink														Sample Custody must be documented below each time samples change possession, including courier delivery.							
Retinquired by Sampler: <u>[Signature]</u>		Date Time: <u>12:50</u>			Received By: <u>[Signature]</u>		Retinquired By:		Date Time:		Received By:										
Retinquired by:		Date Time:			Received By:		Retinquired By:		Date Time:		Received By:										
Retinquired by:		Date Time:			Received By:		Custody Seal #		Appropriate Bottle / Pres. Y/N		Headspace Y/N		On Ice <input checked="" type="checkbox"/>								
Retinquired by:		Date Time:			Received By:				Labels match Coc? Y / N		Separate Receiving Check List used: Y / N		Cooler Temp. <u>5.6</u>								

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## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** C25941      **Client:** EQUO LOGIC      **Project:** SAN LORENZO HIGH SCHOOL  
**Date / Time Received:** 1/28/2013      **Delivery Method:** Client      **Airbill #s:**

**Cooler Temps (Initial/Adjusted):** #1: (5.6/5.6): 0

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input type="checkbox"/>	<input type="checkbox"/>	4. Smp'l Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Samples preserved properly:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Comments** Sampling time not listed on COC nor on sample containers.

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## GC/MS Volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

**Method Blank Summary**

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL712-MB	L22472.D	1	02/02/13	XB	n/a	n/a	VL712

The QC reported here applies to the following samples:

Method: SW846 8260B

C25941-1, C25941-2, C25941-3, C25941-4, C25941-5, C25941-6, C25941-7, C25941-8, C25941-9, C25941-10, C25941-11, C25941-12, C25941-13, C25941-14

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	95% 70-130%
2037-26-5	Toluene-D8	97% 70-130%
460-00-4	4-Bromofluorobenzene	94% 70-130%

**Method Blank Summary**

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL713-MB2	L22511.D	1	02/04/13	XB	n/a	n/a	VL713

The QC reported here applies to the following samples:

Method: SW846 8260B

C25941-19, C25941-20

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	95%	70-130%

**Method Blank Summary**

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL714-MB	L22541.D	1	02/05/13	XB	n/a	n/a	VL714

The QC reported here applies to the following samples:

Method: SW846 8260B

C25941-15, C25941-16, C25941-17, C25941-18

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 70-130%
2037-26-5	Toluene-D8	98% 70-130%
460-00-4	4-Bromofluorobenzene	94% 70-130%

## Method Blank Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL713-MB	L22502.D	1	02/04/13	XB	n/a	n/a	VL713

The QC reported here applies to the following samples:

Method: SW846 8260B

VL713-BSD, VL713-BS, VL713-LCS

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 70-130%
2037-26-5	Toluene-D8	98% 70-130%
460-00-4	4-Bromofluorobenzene	94% 70-130%

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL712-BS	L22469.D	1	02/02/13	XB	n/a	n/a	VL712
VL712-BSD	L22470.D	1	02/02/13	XB	n/a	n/a	VL712

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

C25941-1, C25941-2, C25941-3, C25941-4, C25941-5, C25941-6, C25941-7, C25941-8, C25941-9, C25941-10, C25941-11, C25941-12, C25941-13, C25941-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	40.6	102	41.0	103	1	81-119/20
100-41-4	Ethylbenzene	40	40.3	101	41.4	104	3	80-119/21
1634-04-4	Methyl Tert Butyl Ether	40	40.5	101	39.5	99	3	79-127/19
108-88-3	Toluene	40	40.7	102	41.7	104	2	80-117/21
1330-20-7	Xylene (total)	120	113	94	116	97	3	81-122/22

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	98%	70-130%
2037-26-5	Toluene-D8	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	98%	98%	70-130%

\* = Outside of Control Limits.

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# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL713-BS	L22499.D	1	02/04/13	XB	n/a	n/a	VL713
VL713-BSD	L22500.D	1	02/04/13	XB	n/a	n/a	VL713

The QC reported here applies to the following samples:

Method: SW846 8260B

C25941-19, C25941-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	39.3	98	40.3	101	3	81-119/20
100-41-4	Ethylbenzene	40	38.0	95	39.8	100	5	80-119/21
1634-04-4	Methyl Tert Butyl Ether	40	41.2	103	39.6	99	4	79-127/19
108-88-3	Toluene	40	38.2	96	39.3	98	3	80-117/21
1330-20-7	Xylene (total)	120	108	90	111	93	3	81-122/22

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	104%	101%	70-130%
2037-26-5	Toluene-D8	97%	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	98%	70-130%

\* = Outside of Control Limits.

5.2.2  
 5



# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL714-BS	L22538.D	1	02/05/13	XB	n/a	n/a	VL714
VL714-BSD	L22539.D	1	02/05/13	XB	n/a	n/a	VL714

The QC reported here applies to the following samples:

Method: SW846 8260B

C25941-15, C25941-16, C25941-17, C25941-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	41.8	105	41.8	105	0	81-119/20
100-41-4	Ethylbenzene	40	41.1	103	40.2	101	2	80-119/21
1634-04-4	Methyl Tert Butyl Ether	40	42.1	105	43.5	109	3	79-127/19
108-88-3	Toluene	40	41.0	103	40.4	101	1	80-117/21
1330-20-7	Xylene (total)	120	115	96	113	94	2	81-122/22

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	102%	70-130%
2037-26-5	Toluene-D8	98%	97%	70-130%
460-00-4	4-Bromofluorobenzene	99%	101%	70-130%

\* = Outside of Control Limits.

5.2.3  
 5

# Laboratory Control Sample Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL713-LCS	L22501.D	1	02/04/13	XB	n/a	n/a	VL713

The QC reported here applies to the following samples:

Method: SW846 8260B

C25941-19, C25941-20

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	96%	70-130%

\* = Outside of Control Limits.

# Laboratory Control Sample Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL714-LCS	L22540.D	1	02/05/13	XB	n/a	n/a	VL714

The QC reported here applies to the following samples:

Method: SW846 8260B

C25941-15, C25941-16, C25941-17, C25941-18

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	97%	70-130%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C26001-1MS	L22479.D	1	02/02/13	XB	n/a	n/a	VL712
C26001-1MSD	L22480.D	1	02/02/13	XB	n/a	n/a	VL712
C26001-1	L22473.D	1	02/02/13	XB	n/a	n/a	VL712

The QC reported here applies to the following samples:

Method: SW846 8260B

C25941-1, C25941-2, C25941-3, C25941-4, C25941-5, C25941-6, C25941-7, C25941-8, C25941-9, C25941-10, C25941-11, C25941-12, C25941-13, C25941-14

CAS No.	Compound	C26001-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	39.8	36.7	92	33.7	86	9	81-119/20
100-41-4	Ethylbenzene	ND	39.8	36.0	91	32.2	82	11	80-119/21
1634-04-4	Methyl Tert Butyl Ether	ND	39.8	43.1	108	39.3	101	9	79-127/19
108-88-3	Toluene	ND	39.8	36.3	91	32.8	84	10	80-117/21
1330-20-7	Xylene (total)	ND	119	106	89	95.2	81	11	81-122/22

CAS No.	Surrogate Recoveries	MS	MSD	C26001-1	Limits
1868-53-7	Dibromofluoromethane	105%	103%	98%	70-130%
2037-26-5	Toluene-D8	97%	96%	98%	70-130%
460-00-4	4-Bromofluorobenzene	101%	99%	96%	70-130%

\* = Outside of Control Limits.

5.4.1  
**5**

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C25941-20MS	L22518.D	1	02/04/13	XB	n/a	n/a	VL713
C25941-20MSD	L22519.D	1	02/04/13	XB	n/a	n/a	VL713
C25941-20	L22517.D	1	02/04/13	XB	n/a	n/a	VL713

The QC reported here applies to the following samples:

Method: SW846 8260B

C25941-19, C25941-20

CAS No.	Compound	C25941-20 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	39.5	35.3	89	35.1	88	1	81-119/20
100-41-4	Ethylbenzene	ND	39.5	33.8	86	33.3	84	1	80-119/21
1634-04-4	Methyl Tert Butyl Ether	ND	39.5	39.5	100	40.7	102	3	79-127/19
108-88-3	Toluene	ND	39.5	33.5	85	33.4	84	0	80-117/21
1330-20-7	Xylene (total)	ND	119	99.5	84	98.2	82	1	81-122/22

CAS No.	Surrogate Recoveries	MS	MSD	C25941-20	Limits
1868-53-7	Dibromofluoromethane	104%	109%	106%	70-130%
2037-26-5	Toluene-D8	97%	97%	96%	70-130%
460-00-4	4-Bromofluorobenzene	101%	101%	99%	70-130%

\* = Outside of Control Limits.

5.4.2  
 5

GC/MS Volatiles

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Raw Data

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9

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22476.D  
 Acq On : 2 Feb 2013 2:44 pm  
 Operator : XINGB  
 Sample : C25941-1  
 Misc : MS1656,VL712,5.03,,,,,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 07:58:17 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

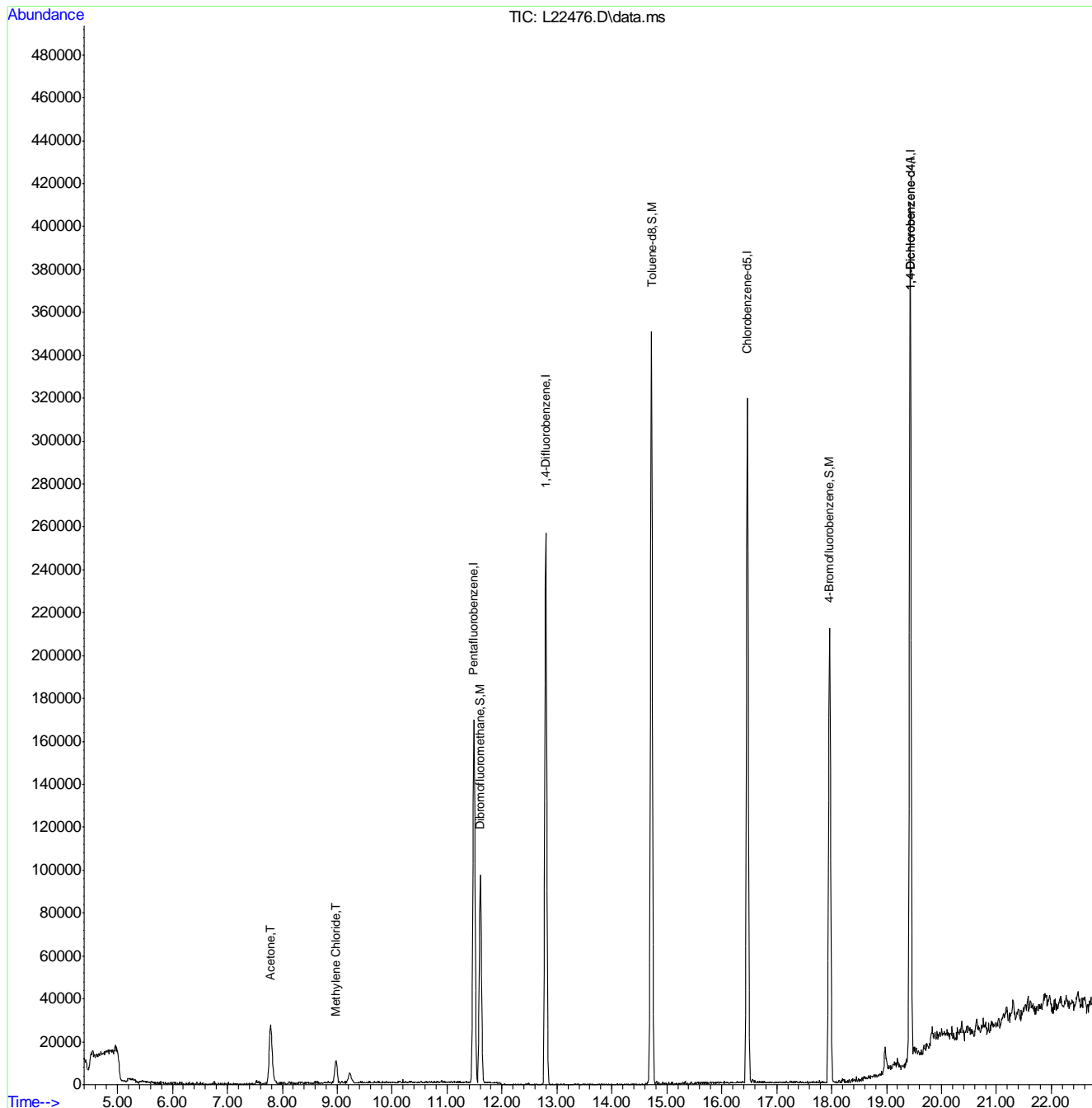
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.486	168	1647583	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.795	114	2835107	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2406346	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1241987	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1241987	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.606	111	889584	20.29	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	101.45%
53) Toluene-d8	14.721	98	3215756	19.73	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	98.65%
71) 4-Bromofluorobenzene	17.957	95	1220096	19.37	ug/Kg	-0.01
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.85%
Target Compounds						
10) Acetone	7.781	58	199652	33.43	ug/Kg	97
18) Methylene Chloride	8.981	84	83952	1.29	ug/Kg	96
96) TPH-GRO (C6-C10)	13.747	TIC	-138175m	Below	Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

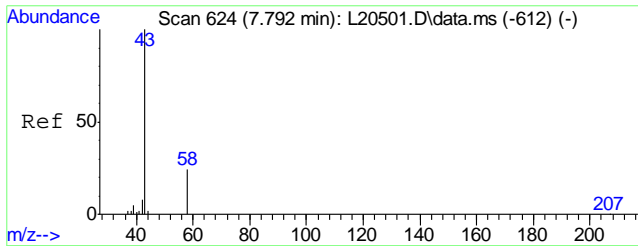
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22476.D  
 Acq On : 2 Feb 2013 2:44 pm  
 Operator : XINGB  
 Sample : C25941-1  
 Misc : MS1656,VL712,5.03,,,,,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 07:58:17 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

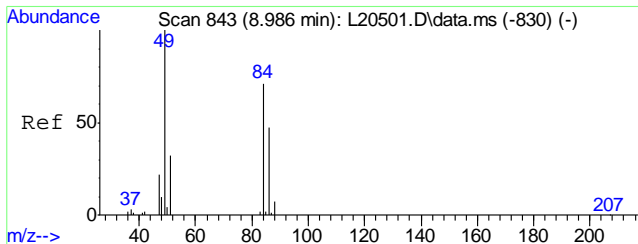
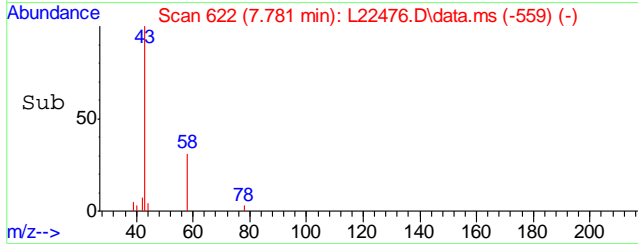
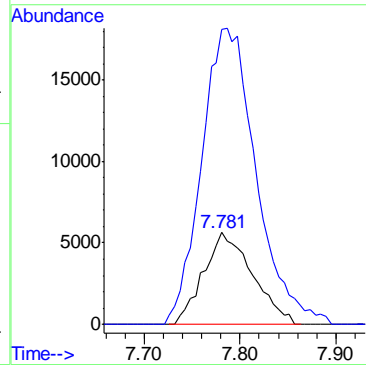
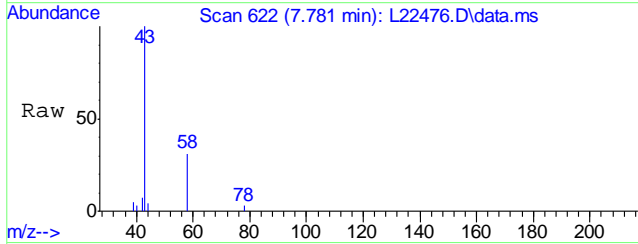






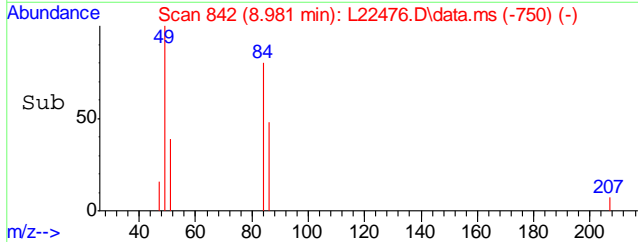
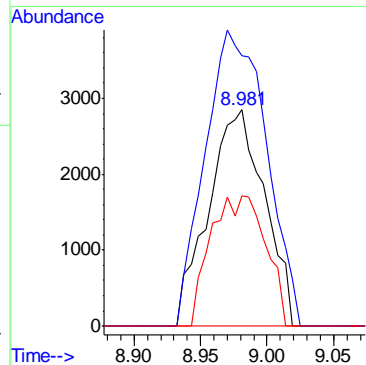
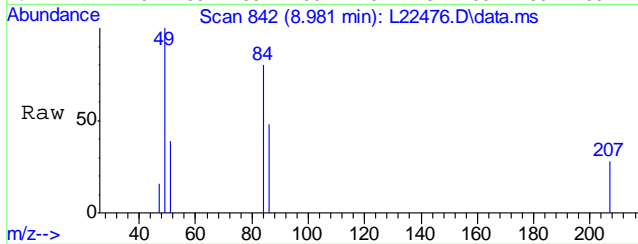
#10  
Acetone  
Concen: 33.43 ug/Kg  
RT: 7.781 min Scan# 622  
Delta R.T. -0.005 min  
Lab File: L22476.D  
Acq: 2 Feb 2013 2:44 pm

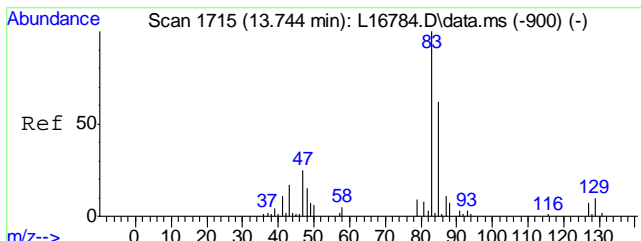
Tgt Ion	Resp	Lower	Upper
58	199652		
58	100		
43	360.3	334.6	374.6



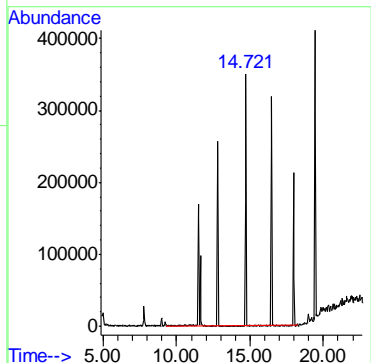
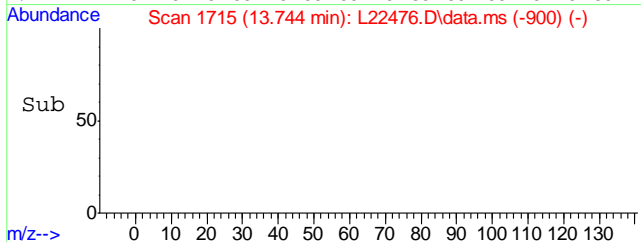
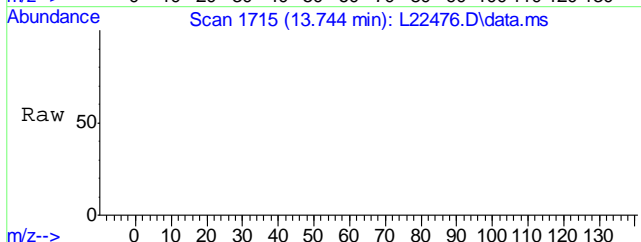
#18  
Methylene Chloride  
Concen: 1.29 ug/Kg  
RT: 8.981 min Scan# 842  
Delta R.T. -0.000 min  
Lab File: L22476.D  
Acq: 2 Feb 2013 2:44 pm

Tgt Ion	Resp	Lower	Upper
84	83952		
84	100		
49	149.3	125.6	165.6
86	59.1	43.6	83.6





#96  
TPH-GRO (C6-C10)  
Concen: Below Cal m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22476.D  
Acq: 2 Feb 2013 2:44 pm  
Tgt Ion:TIC Resp: -138175



6.1.1  
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22477.D  
Acq On : 2 Feb 2013 3:13 pm  
Operator : XINGB  
Sample : C25941-2  
Misc : MS1656,VL712,5.08,,,,,1  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 04 07:59:18 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1594085	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.801	114	2705588	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2323512	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1171192	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1171192	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	861828	20.32	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery =	101.60%		
53) Toluene-d8	14.721	98	3063623	19.47	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery =	97.35%		
71) 4-Bromofluorobenzene	17.962	95	1158428	19.05	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery =	95.25%		
Target Compounds						
10) Acetone	7.797	58	79317	13.72	ug/Kg	95
18) Methylene Chloride	8.992	84	55068	0.87	ug/Kg	93
93) Naphthalene	21.907	128	105971	0.55	ug/Kg	100
96) TPH-GRO (C6-C10)	13.747	TIC	194072m	0.82	ug/Kg	

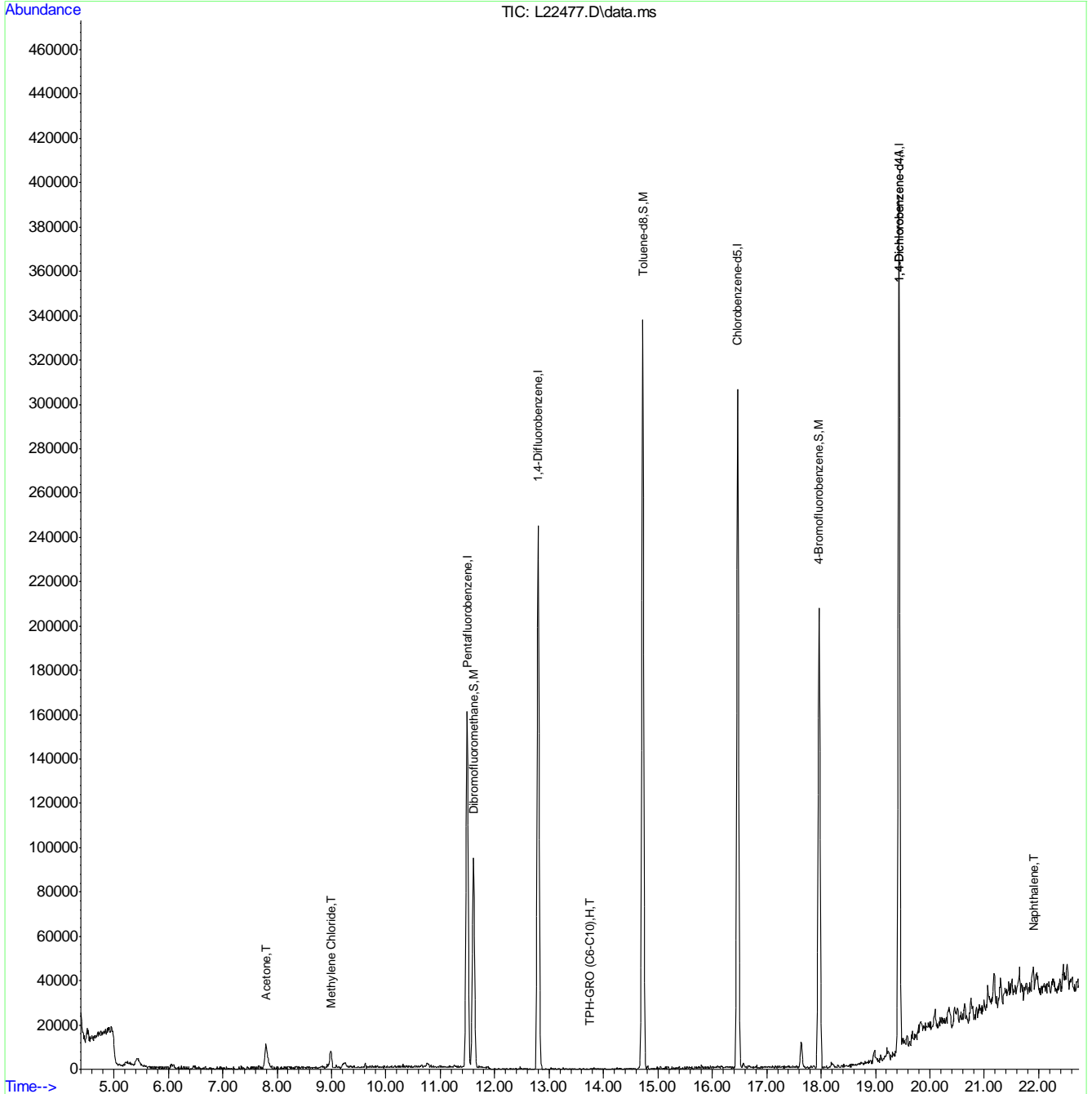
(#) = qualifier out of range (m) = manual integration (+) = signals summed

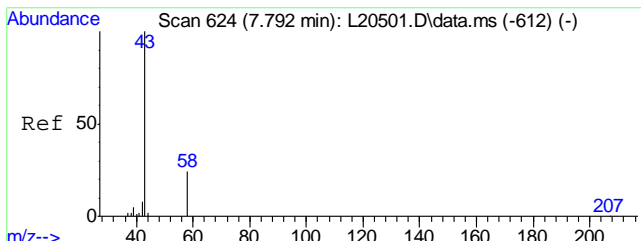
6.12  
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22477.D  
Acq On : 2 Feb 2013 3:13 pm  
Operator : XINGB  
Sample : C25941-2  
Misc : MS1656,VL712,5.08,,,,,1  
ALS Vial : 11 Sample Multiplier: 1

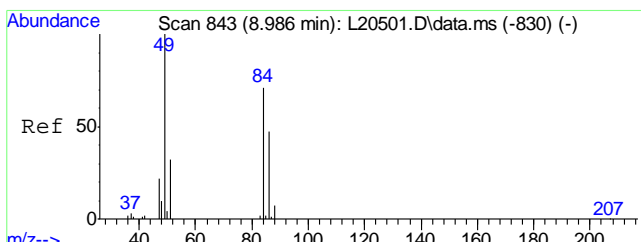
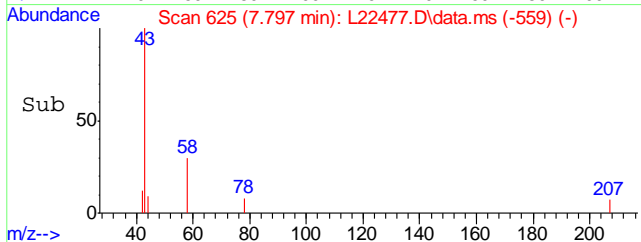
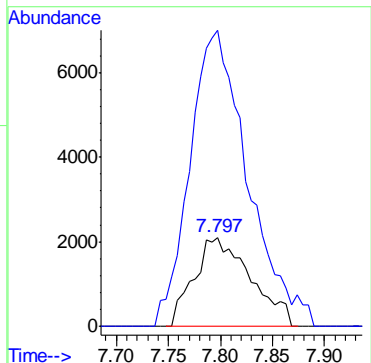
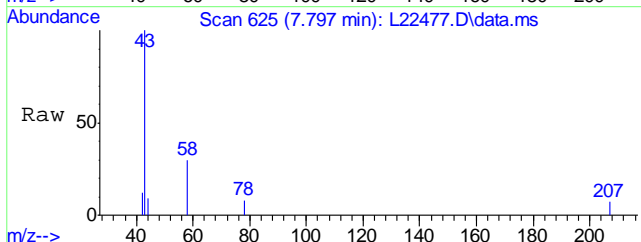
Quant Time: Feb 04 07:59:18 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





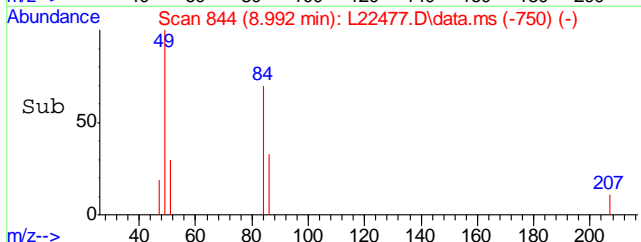
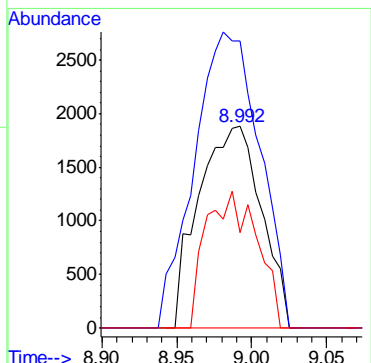
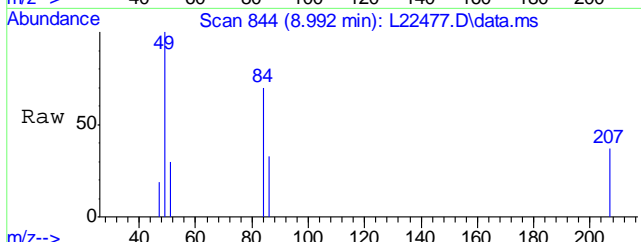
#10  
Acetone  
Concen: 13.72 ug/Kg  
RT: 7.797 min Scan# 625  
Delta R.T. 0.011 min  
Lab File: L22477.D  
Acq: 2 Feb 2013 3:13 pm

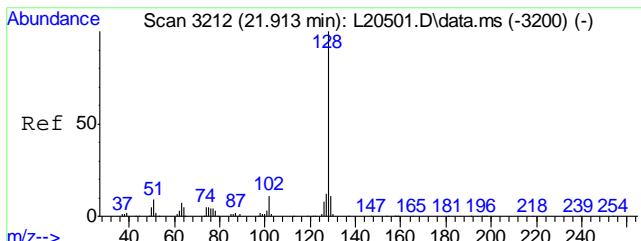
Tgt Ion	Resp	Lower	Upper
58	79317		
58	100		
43	343.0	334.6	374.6



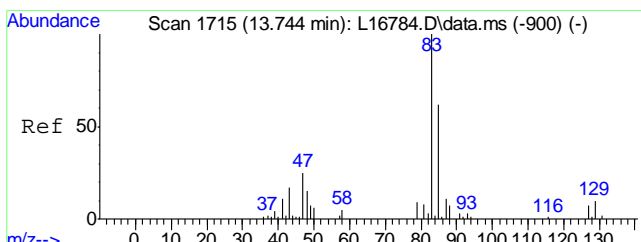
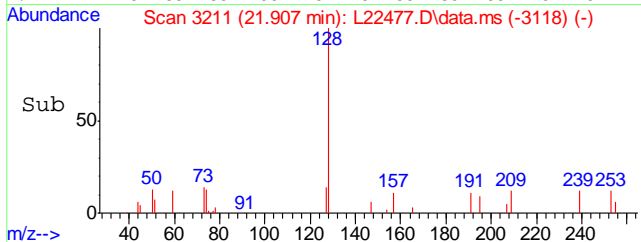
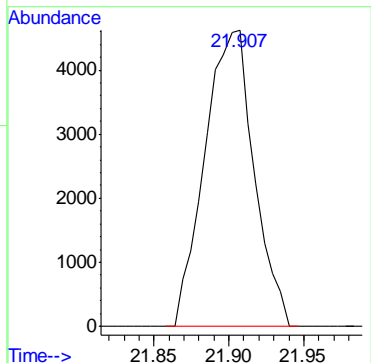
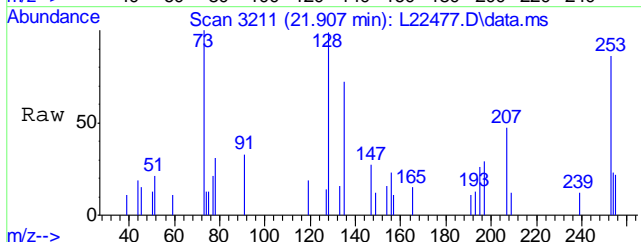
#18  
Methylene Chloride  
Concen: 0.87 ug/Kg  
RT: 8.992 min Scan# 844  
Delta R.T. 0.011 min  
Lab File: L22477.D  
Acq: 2 Feb 2013 3:13 pm

Tgt Ion	Resp	Lower	Upper
84	55068		
84	100		
49	152.2	125.6	165.6
86	54.9	43.6	83.6

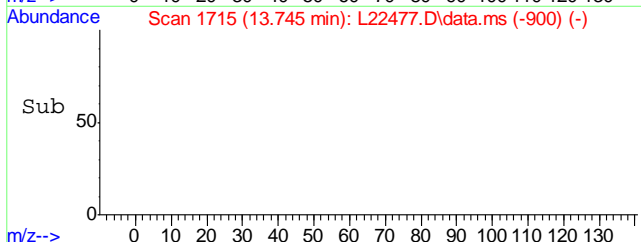
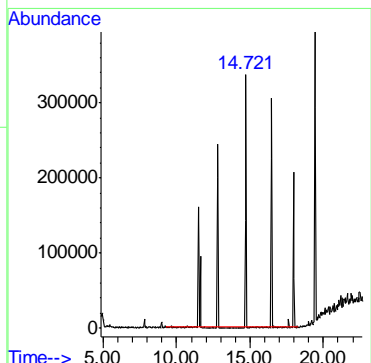
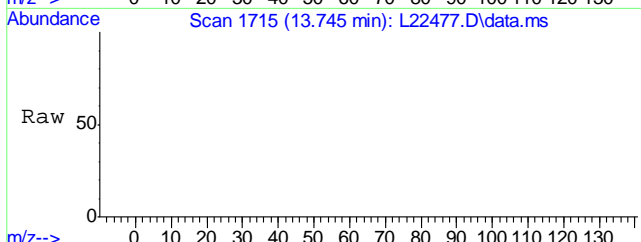




#93  
 Naphthalene  
 Concen: 0.55 ug/Kg  
 RT: 21.907 min Scan# 3211  
 Delta R.T. 0.005 min  
 Lab File: L22477.D  
 Acq: 2 Feb 2013 3:13 pm  
 Tgt Ion:128 Resp: 105971



#96  
 TPH-GRO (C6-C10)  
 Concen: 0.82 ug/Kg m  
 RT: 13.747 min Scan# 1715  
 Delta R.T. 0.000 min  
 Lab File: L22477.D  
 Acq: 2 Feb 2013 3:13 pm  
 Tgt Ion:TIC Resp: 194072



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22478.D  
Acq On : 2 Feb 2013 3:42 pm  
Operator : XINGB  
Sample : C25941-3  
Misc : MS1656,VL712,5.08,,,,,1  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 04 07:37:30 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.485	168	1550010	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.795	114	2641147	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2291723	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1179128	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1179128	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.605	111	847426	20.54	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	102.70%
53) Toluene-d8	14.716	98	3023838	19.48	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	97.40%
71) 4-Bromofluorobenzene	17.957	95	1165300	19.43	ug/Kg	-0.01
Spiked Amount	20.000	Range	70 - 130	Recovery	=	97.15%
Target Compounds						
10) Acetone	7.786	58	25402	4.52	ug/Kg#	50
18) Methylene Chloride	8.970	84	46641	0.76	ug/Kg	94
96) TPH-GRO (C6-C10)	13.747	TIC	214967m	0.90	ug/Kg	

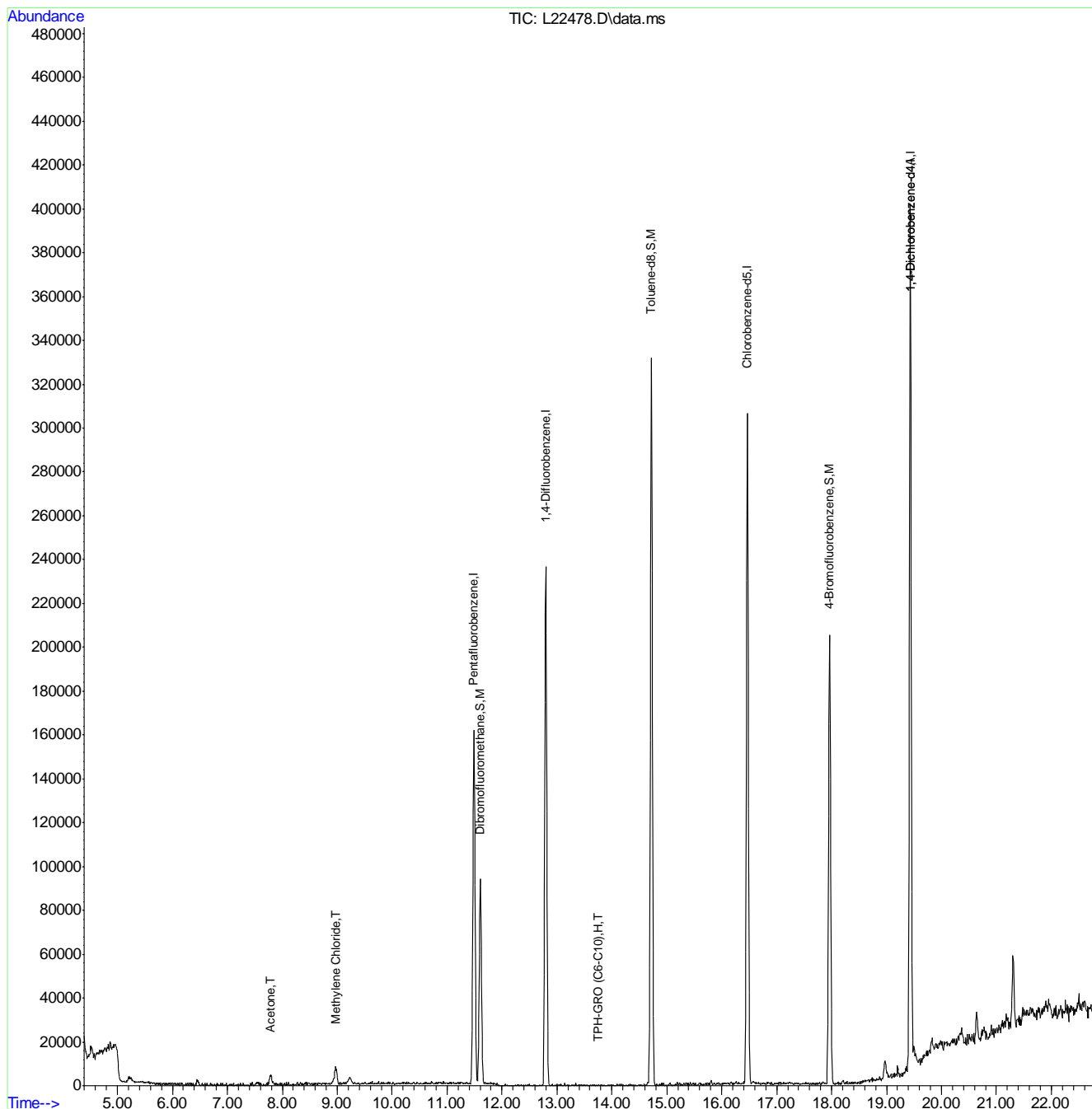
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.1.3  
6

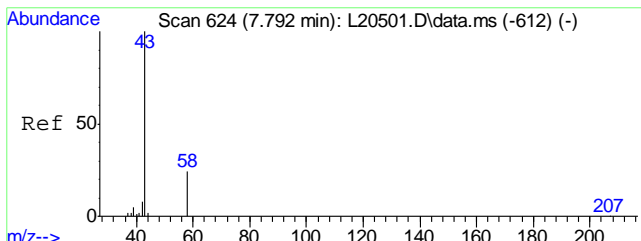
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22478.D  
 Acq On : 2 Feb 2013 3:42 pm  
 Operator : XINGB  
 Sample : C25941-3  
 Misc : MS1656,VL712,5.08,,,1  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 04 07:37:30 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

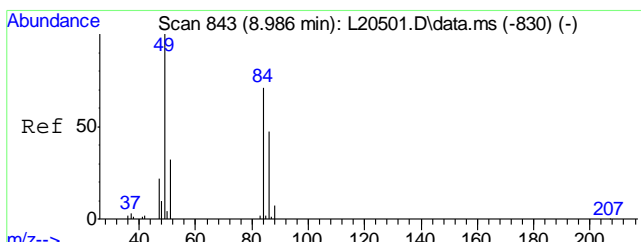
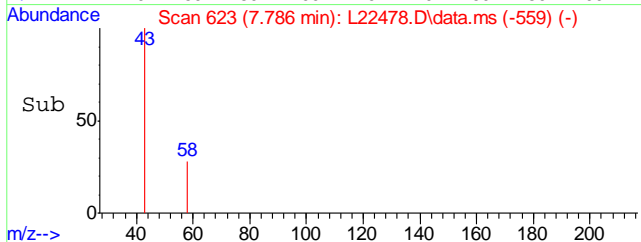
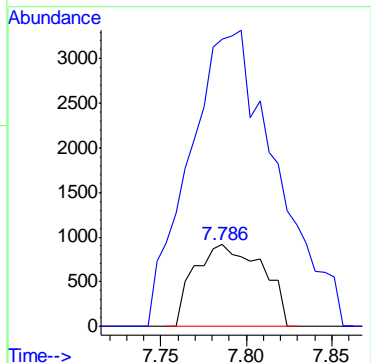
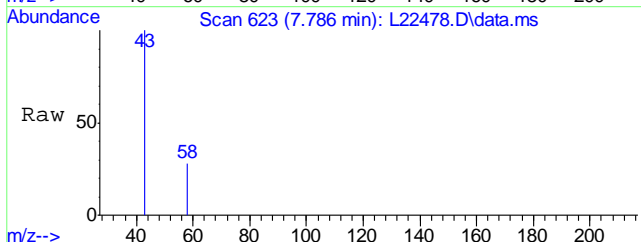






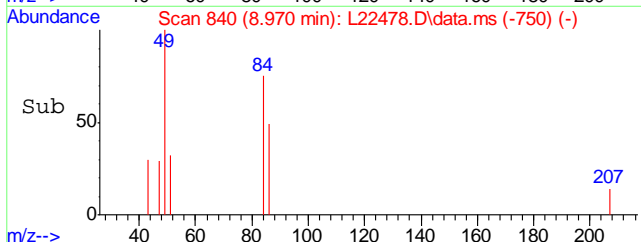
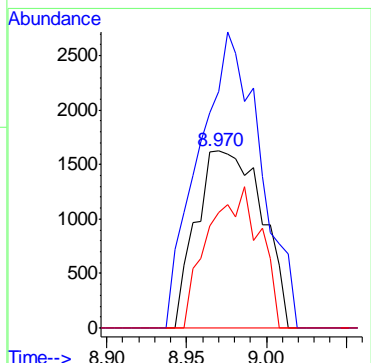
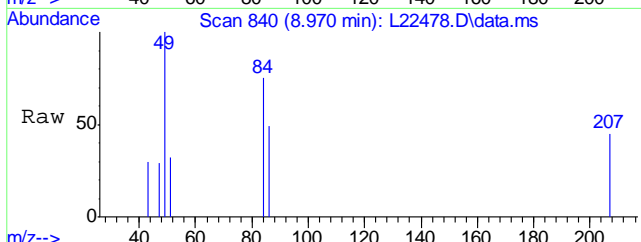
#10  
Acetone  
Concen: 4.52 ug/Kg  
RT: 7.786 min Scan# 623  
Delta R.T. -0.000 min  
Lab File: L22478.D  
Acq: 2 Feb 2013 3:42 pm

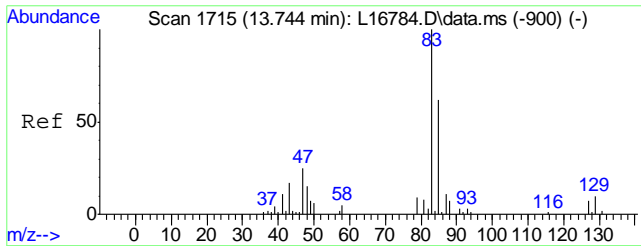
Tgt Ion	Resp	Lower	Upper
58	25402		
58	100		
43	463.4	334.6	374.6#



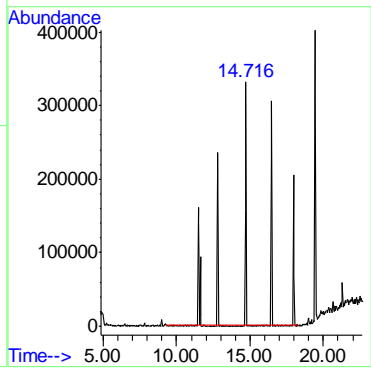
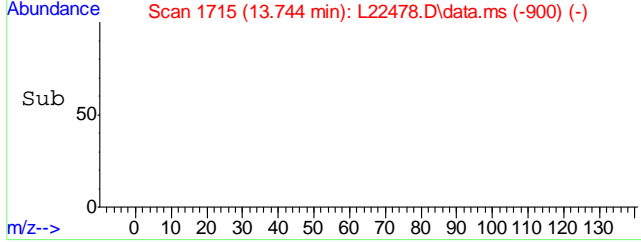
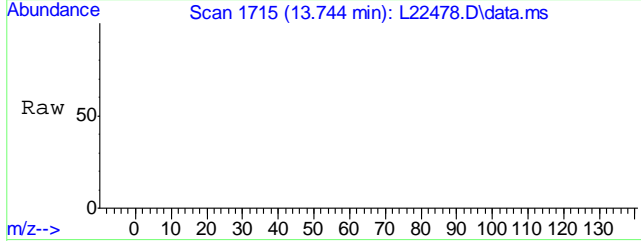
#18  
Methylene Chloride  
Concen: 0.76 ug/Kg  
RT: 8.970 min Scan# 840  
Delta R.T. -0.011 min  
Lab File: L22478.D  
Acq: 2 Feb 2013 3:42 pm

Tgt Ion	Resp	Lower	Upper
84	46641		
84	100		
49	156.4	125.6	165.6
86	63.1	43.6	83.6





#96  
TPH-GRO (C6-C10)  
Concen: 0.90 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22478.D  
Acq: 2 Feb 2013 3:42 pm  
Tgt Ion:TIC Resp: 214967



6.1.3  
6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22481.D  
 Acq On : 2 Feb 2013 5:09 pm  
 Operator : XINGB  
 Sample : C25941-4  
 Misc : MS1656,VL712,5.02,,,,,1  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 04 08:02:21 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

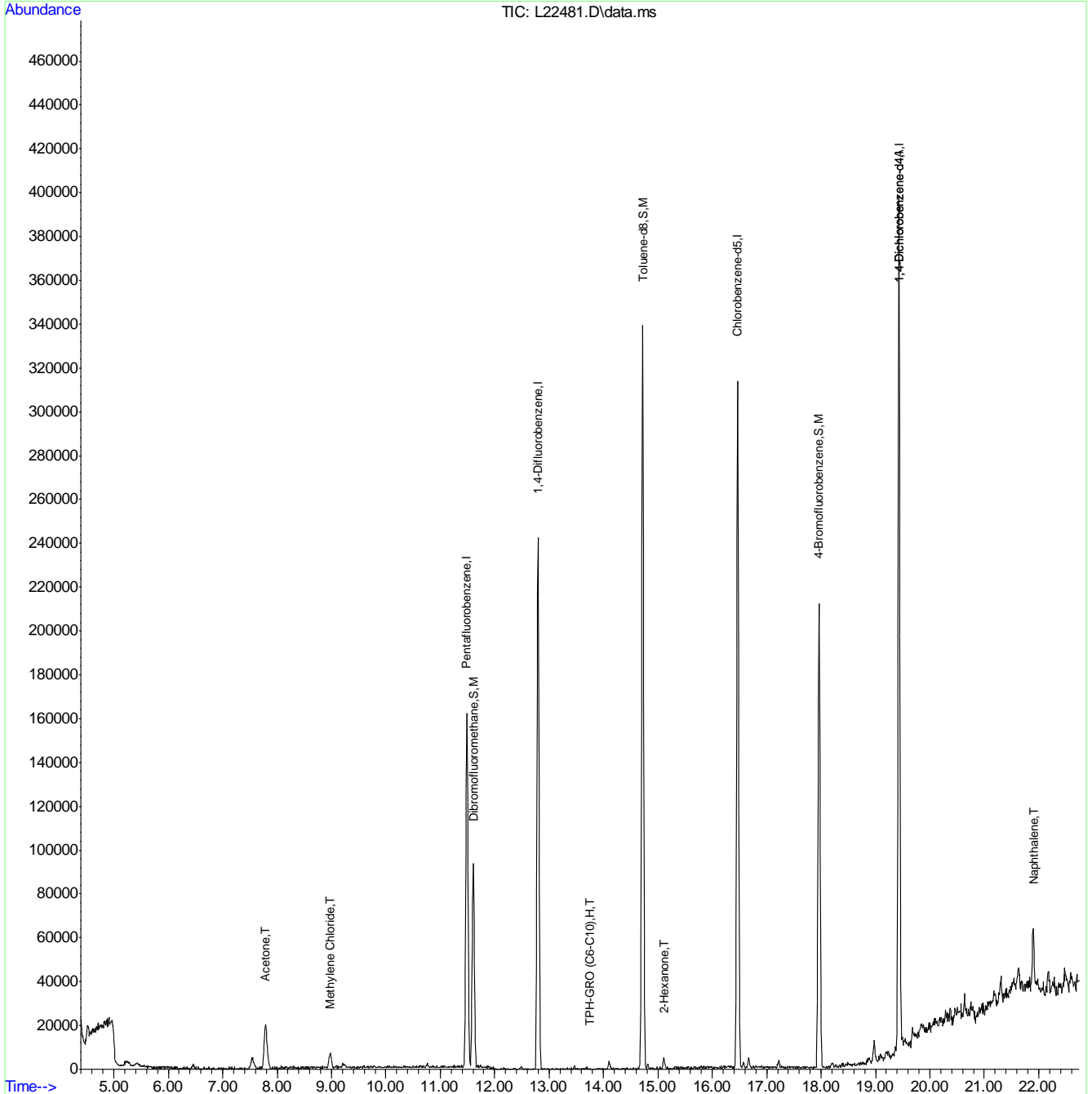
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.486	168	1601386	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.801	114	2718744	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2361333	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1222983	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1222983	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	868045	20.37	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery =	101.85%		
53) Toluene-d8	14.721	98	3100755	19.39	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery =	96.95%		
71) 4-Bromofluorobenzene	17.962	95	1190984	19.27	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery =	96.35%		
Target Compounds						
10) Acetone	7.781	58	152546	26.28	ug/Kg	96
18) Methylene Chloride	8.981	84	50479	0.80	ug/Kg	88
57) 2-Hexanone	15.109	43	65026	1.23	ug/Kg#	88
93) Naphthalene	21.902	128	275963	1.36	ug/Kg	100
96) TPH-GRO (C6-C10)	13.747	TIC	817796m	3.31	ug/Kg	

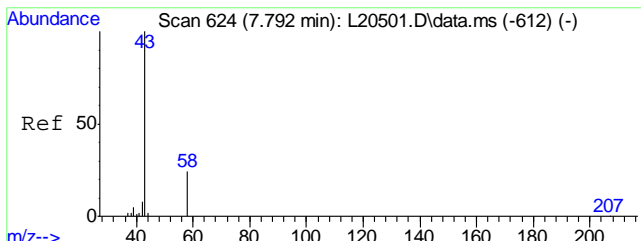
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22481.D  
Acq On : 2 Feb 2013 5:09 pm  
Operator : XINGB  
Sample : C25941-4  
Misc : MS1656,VL712,5.02,,,,,1  
ALS Vial : 15 Sample Multiplier: 1

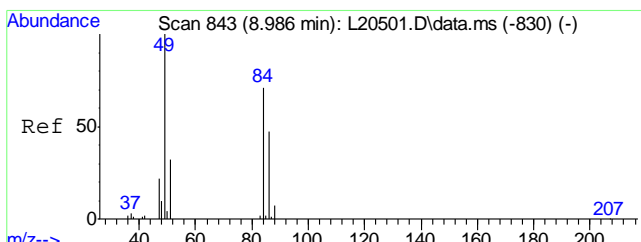
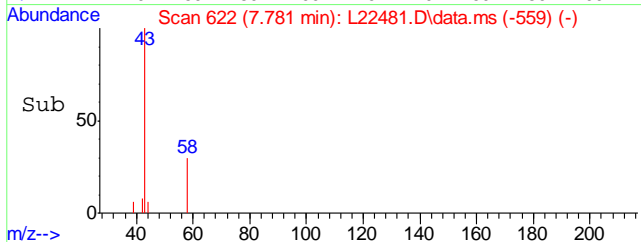
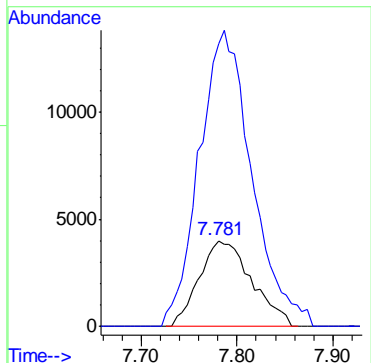
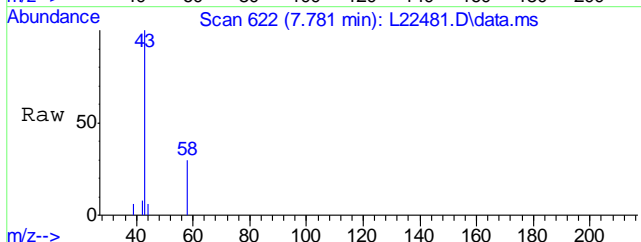
Quant Time: Feb 04 08:02:21 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





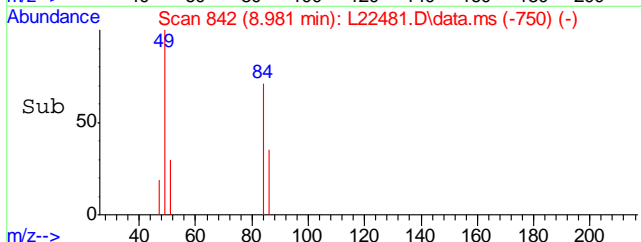
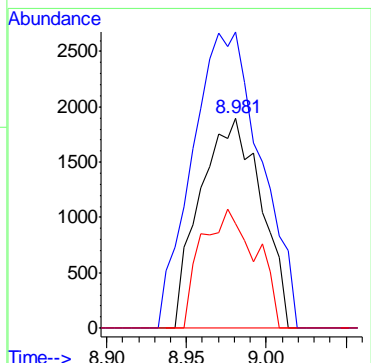
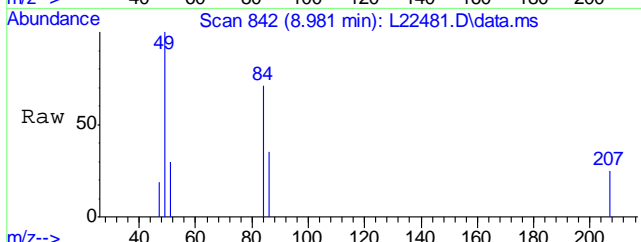
#10  
Acetone  
Concen: 26.28 ug/Kg  
RT: 7.781 min Scan# 622  
Delta R.T. -0.006 min  
Lab File: L22481.D  
Acq: 2 Feb 2013 5:09 pm

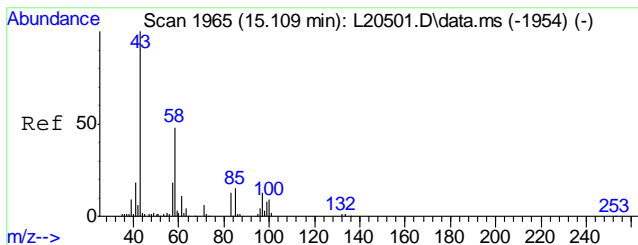
Tgt Ion	Resp	Lower	Upper
58	152546		
43	346.0	334.6	374.6



#18  
Methylene Chloride  
Concen: 0.80 ug/Kg  
RT: 8.981 min Scan# 842  
Delta R.T. -0.000 min  
Lab File: L22481.D  
Acq: 2 Feb 2013 5:09 pm

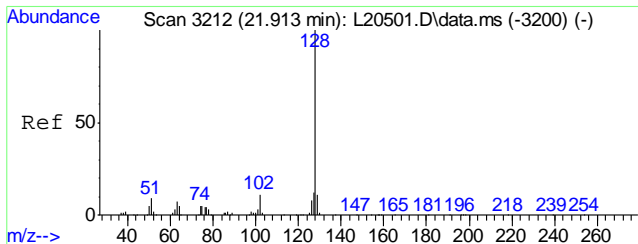
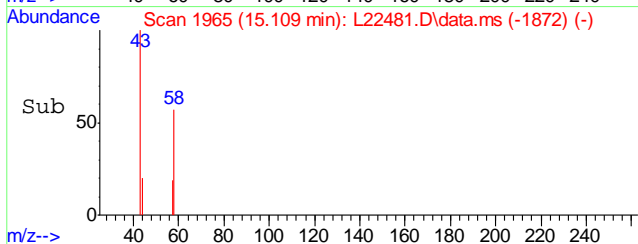
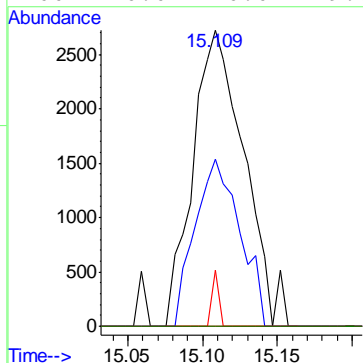
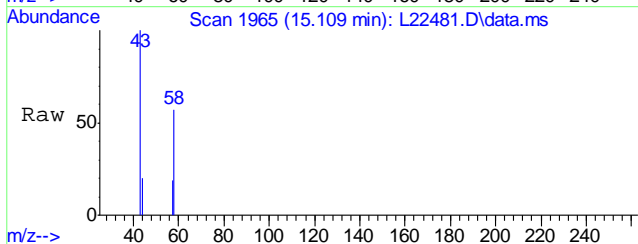
Tgt Ion	Resp	Lower	Upper
84	50479		
49	158.8	125.6	165.6
86	50.8	43.6	83.6





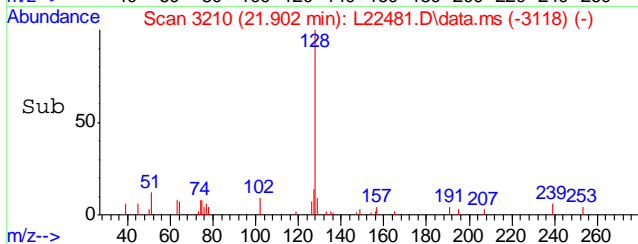
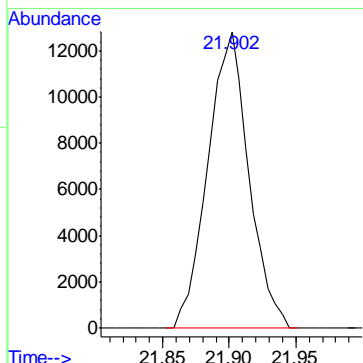
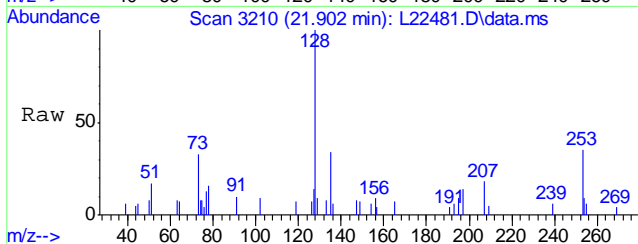
#57  
2-Hexanone  
Concen: 1.23 ug/Kg  
RT: 15.109 min Scan# 1965  
Delta R.T. 0.005 min  
Lab File: L22481.D  
Acq: 2 Feb 2013 5:09 pm

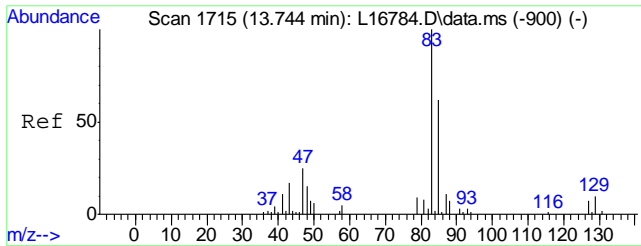
Tgt Ion	Resp	Lower	Upper
43	100		
58	49.4	30.1	70.1
57	0.0	0.0	36.3
100	0.0	0.0	29.0



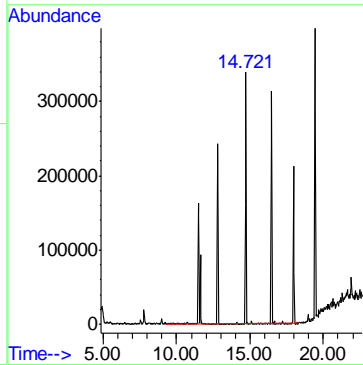
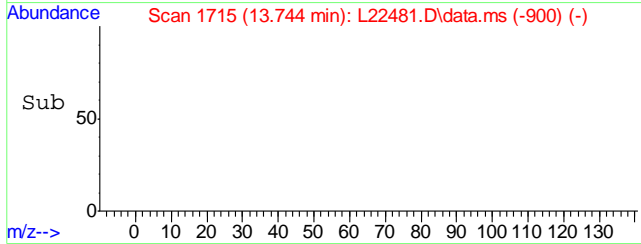
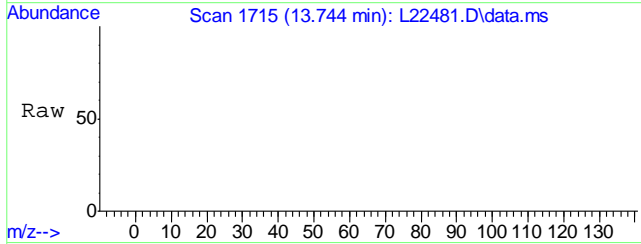
#93  
Naphthalene  
Concen: 1.36 ug/Kg  
RT: 21.902 min Scan# 3210  
Delta R.T. -0.000 min  
Lab File: L22481.D  
Acq: 2 Feb 2013 5:09 pm

Tgt Ion: 128 Resp: 275963





#96  
TPH-GRO (C6-C10)  
Concen: 3.31 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22481.D  
Acq: 2 Feb 2013 5:09 pm  
Tgt Ion:TIC Resp: 817796



6.1.4  
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22482.D  
Acq On : 2 Feb 2013 5:38 pm  
Operator : XINGB  
Sample : C25941-5  
Misc : MS1656,VL712,5.17,,,,,1  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 04 07:37:40 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1580976	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.800	114	2684222	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2376493	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1202331	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1202331	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	875424	20.81	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery	=	104.05%	
53) Toluene-d8	14.721	98	3087140	19.18	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery	=	95.90%	
71) 4-Bromofluorobenzene	17.962	95	1202328	19.33	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery	=	96.65%	
Target Compounds						
10) Acetone	7.792	58	339552	59.24	ug/Kg	96
18) Methylene Chloride	8.986	84	39767	0.64	ug/Kg	88
65) Xylene, m+p	16.669	106	65040	0.58	ug/Kg	99
93) Naphthalene	21.902	128	106419	0.54	ug/Kg	100
96) TPH-GRO (C6-C10)	13.747	TIC	700145m	2.88	ug/Kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

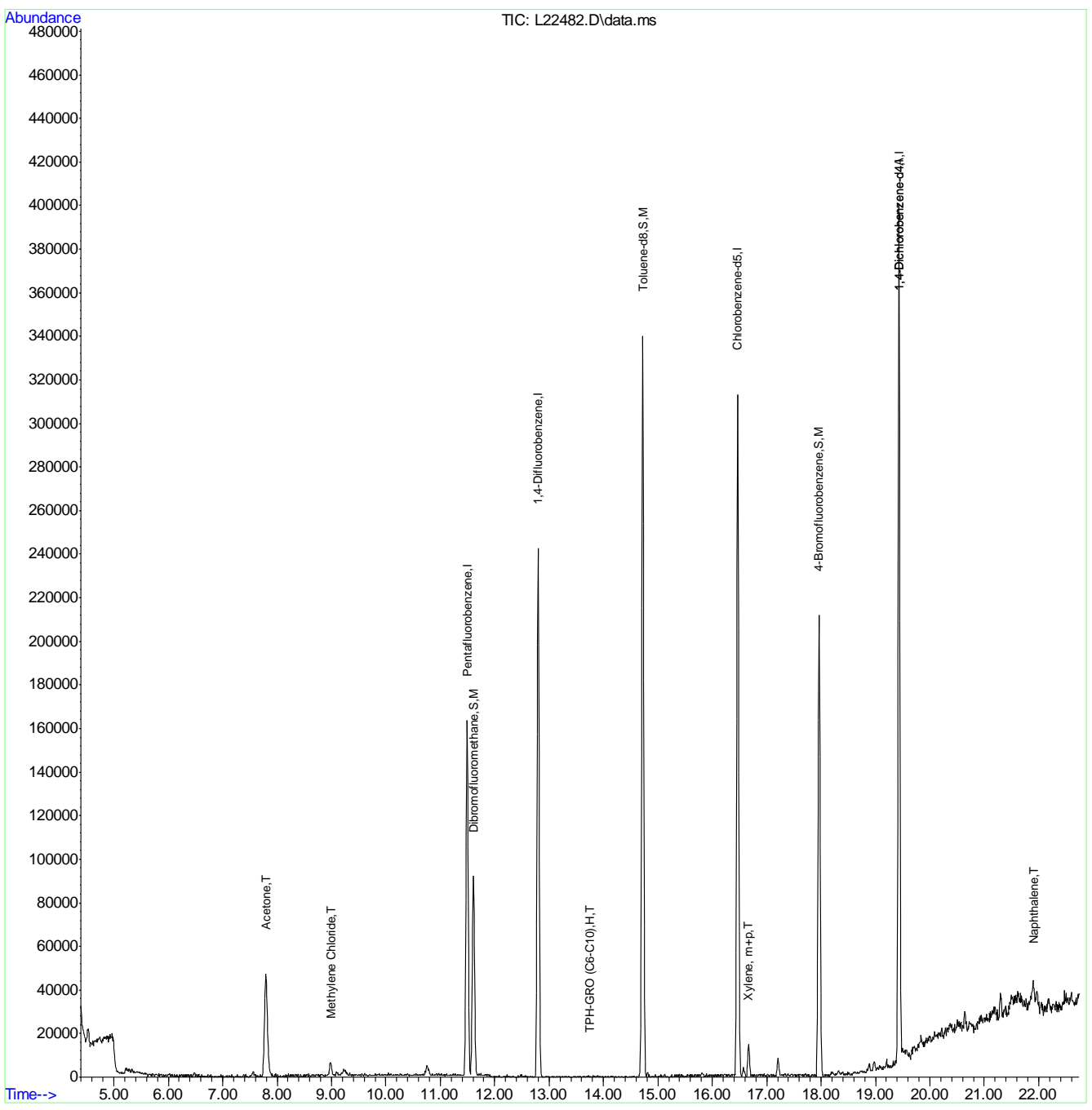
6.1.5  
6

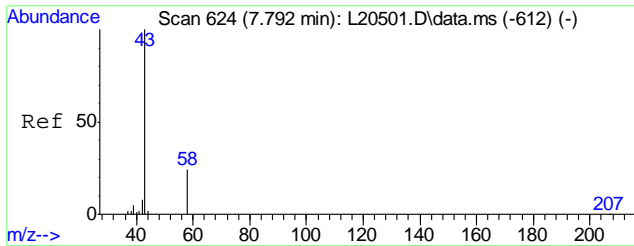


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22482.D  
Acq On : 2 Feb 2013 5:38 pm  
Operator : XINGB  
Sample : C25941-5  
Misc : MS1656,VL712,5.17,,,,,1  
ALS Vial : 16 Sample Multiplier: 1

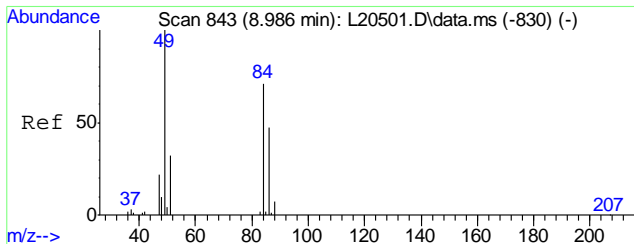
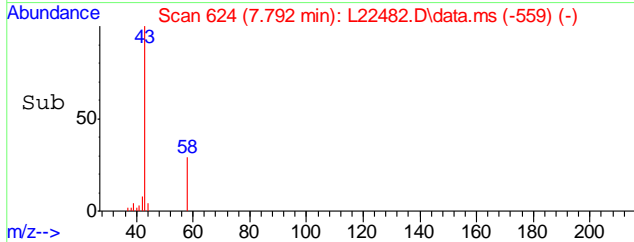
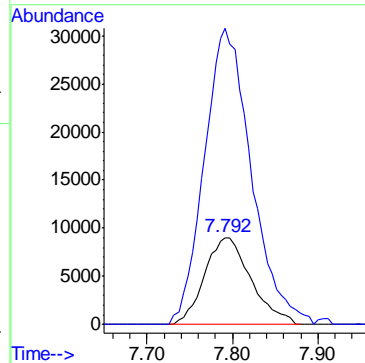
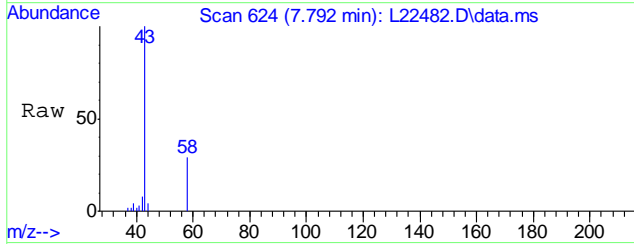
Quant Time: Feb 04 07:37:40 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





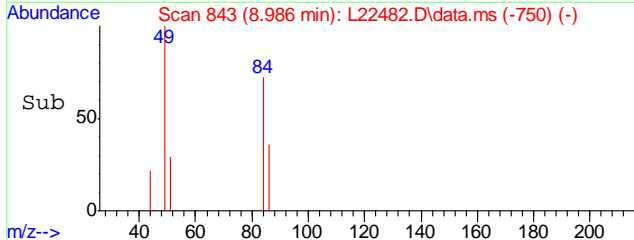
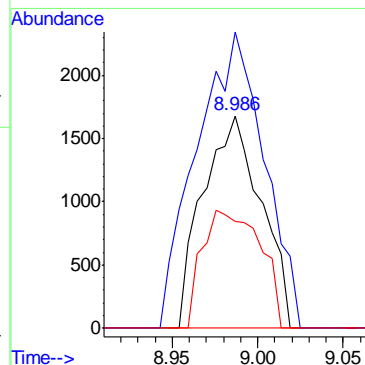
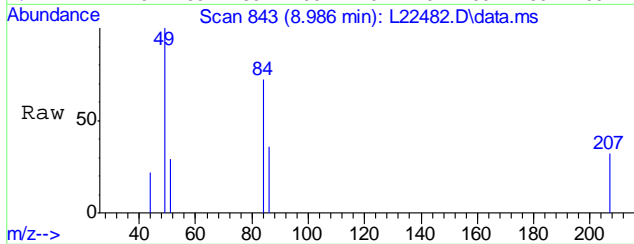
#10  
 Acetone  
 Concen: 59.24 ug/Kg  
 RT: 7.792 min Scan# 624  
 Delta R.T. 0.005 min  
 Lab File: L22482.D  
 Acq: 2 Feb 2013 5:38 pm

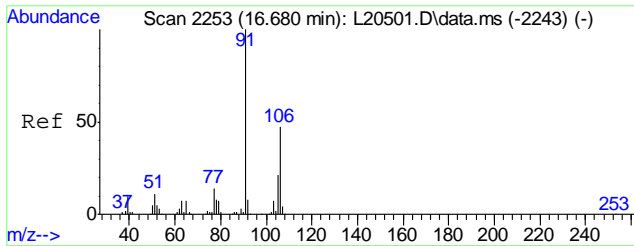
Tgt Ion	Resp	Lower	Upper
58	339552		
43	345.9	334.6	374.6



#18  
 Methylene Chloride  
 Concen: 0.64 ug/Kg  
 RT: 8.986 min Scan# 843  
 Delta R.T. 0.005 min  
 Lab File: L22482.D  
 Acq: 2 Feb 2013 5:38 pm

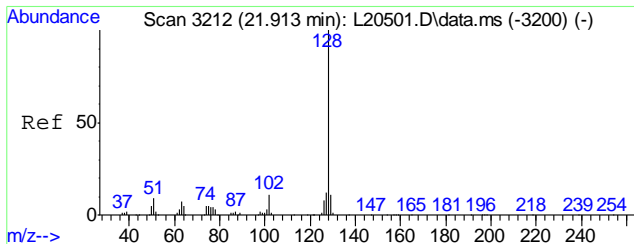
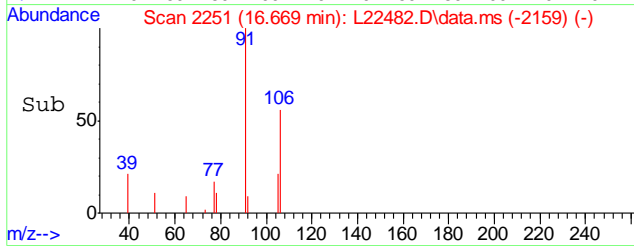
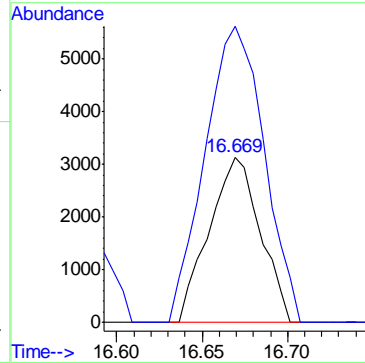
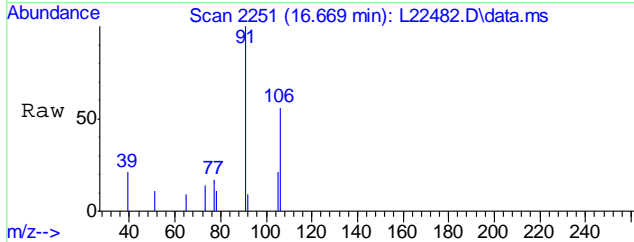
Tgt Ion	Resp	Lower	Upper
84	39767		
49	161.9	125.6	165.6
86	55.3	43.6	83.6





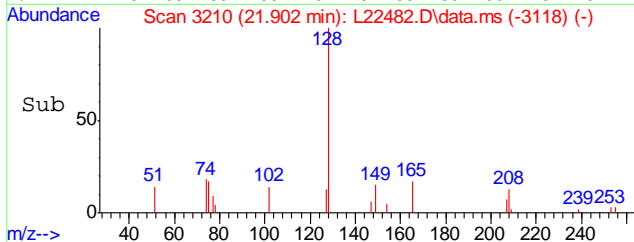
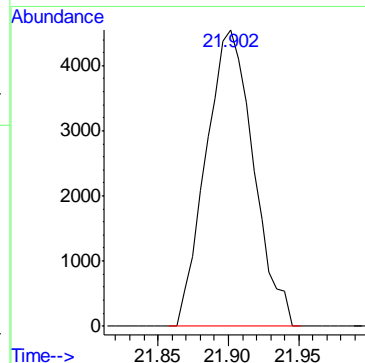
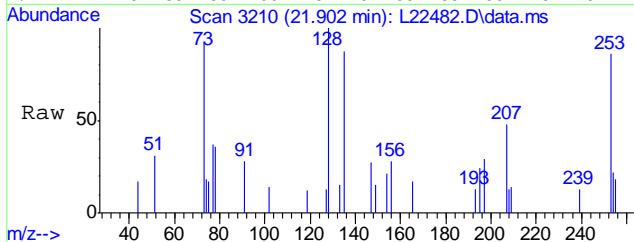
#65  
 Xylene, m+p  
 Concen: 0.58 ug/Kg  
 RT: 16.669 min Scan# 2251  
 Delta R.T. -0.000 min  
 Lab File: L22482.D  
 Acq: 2 Feb 2013 5:38 pm

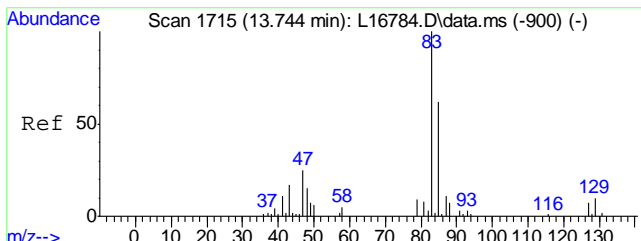
Tgt Ion:106 Resp: 65040  
 Ion Ratio Lower Upper  
 106 100  
 91 208.3 187.1 227.1



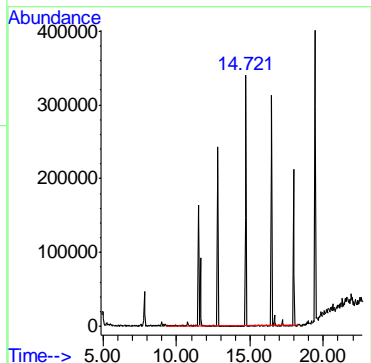
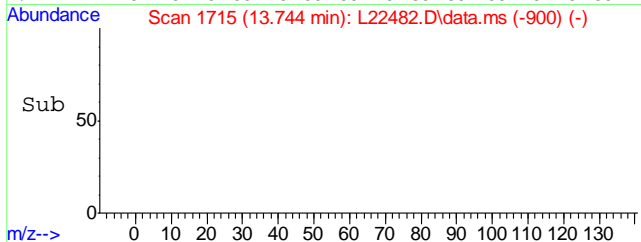
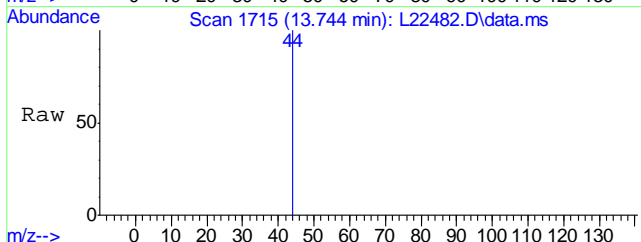
#93  
 Naphthalene  
 Concen: 0.54 ug/Kg  
 RT: 21.902 min Scan# 3210  
 Delta R.T. -0.000 min  
 Lab File: L22482.D  
 Acq: 2 Feb 2013 5:38 pm

Tgt Ion:128 Resp: 106419





#96  
TPH-GRO (C6-C10)  
Concen: 2.88 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22482.D  
Acq: 2 Feb 2013 5:38 pm  
Tgt Ion:TIC Resp: 700145



6.1.5  
6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22483.D  
 Acq On : 2 Feb 2013 6:07 pm  
 Operator : XINGB  
 Sample : C25941-6  
 Misc : MS1656,VL712,5.08,,,,,1  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 04 08:03:21 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

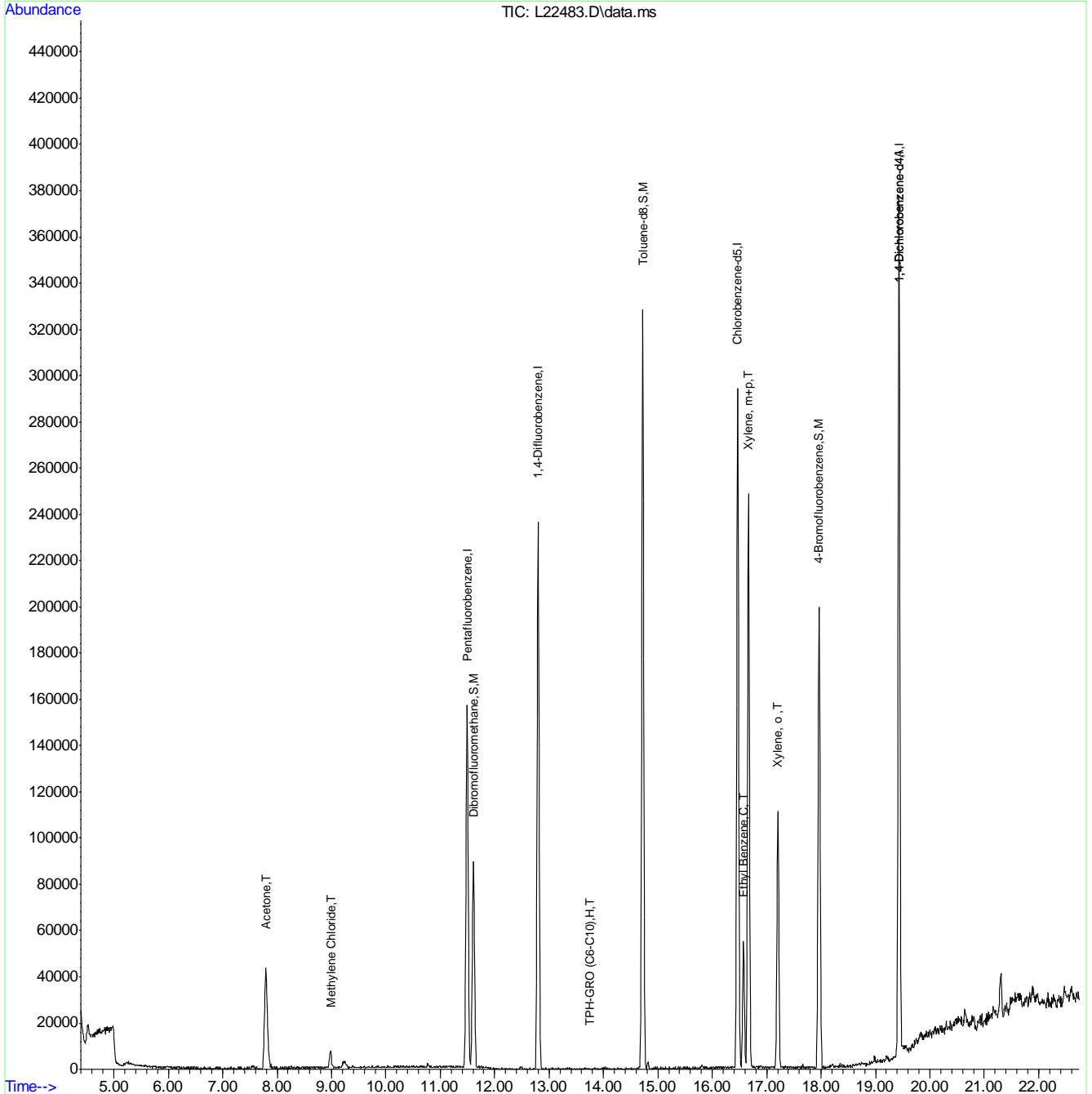
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1524014	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.800	114	2581617	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2244667	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1156517	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1156517	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	822361	20.28	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	101.40%
53) Toluene-d8	14.721	98	2971791	19.55	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	97.75%
71) 4-Bromofluorobenzene	17.962	95	1135141	19.32	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.60%
Target Compounds						
10) Acetone	7.797	58	302130	54.68	ug/Kg	98
18) Methylene Chloride	8.986	84	53228	0.88	ug/Kg	93
64) Ethyl Benzene	16.576	91	585470	2.19	ug/Kg	99
65) Xylene, m+p	16.669	106	973248	9.18	ug/Kg	100
66) Xylene, o	17.204	106	454896	4.44	ug/Kg	99
96) TPH-GRO (C6-C10)	13.747	TIC	9773902m	41.82	ug/Kg	

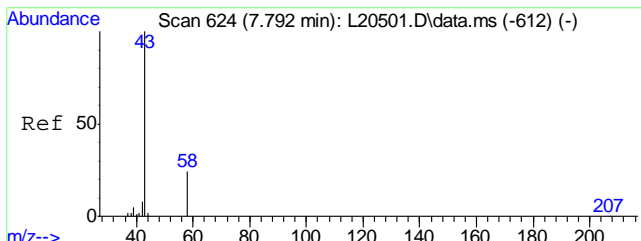
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22483.D  
Acq On : 2 Feb 2013 6:07 pm  
Operator : XINGB  
Sample : C25941-6  
Misc : MS1656,VL712,5.08,,,,,1  
ALS Vial : 17 Sample Multiplier: 1

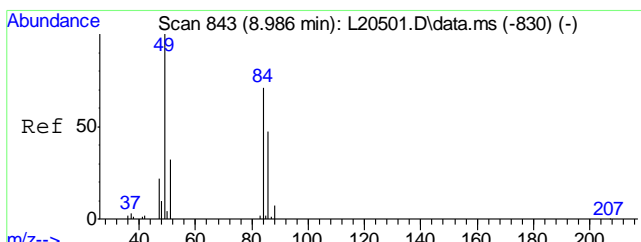
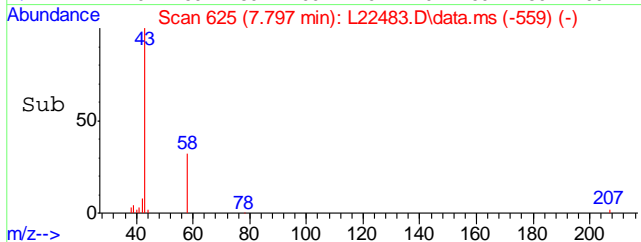
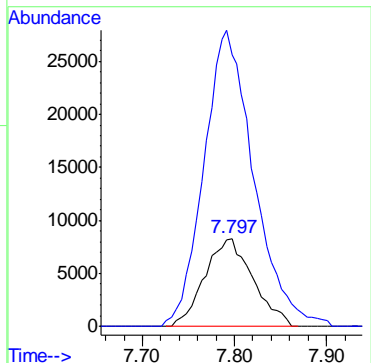
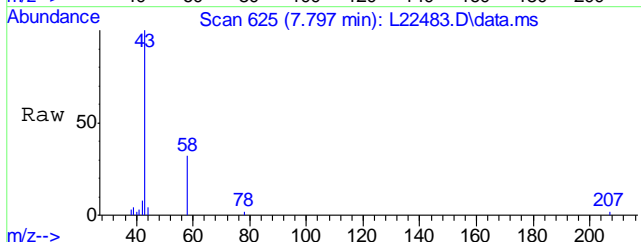
Quant Time: Feb 04 08:03:21 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





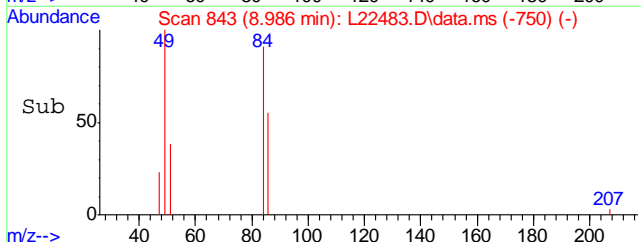
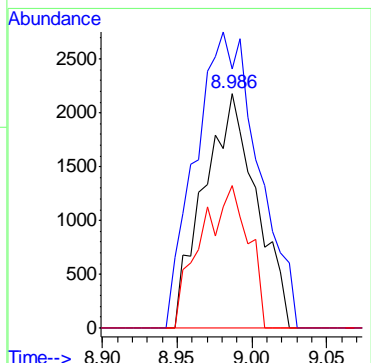
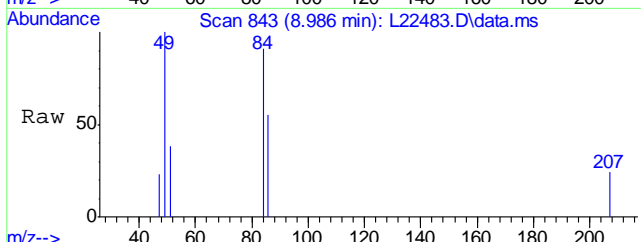
#10  
Acetone  
Concen: 54.68 ug/Kg  
RT: 7.797 min Scan# 625  
Delta R.T. 0.011 min  
Lab File: L22483.D  
Acq: 2 Feb 2013 6:07 pm

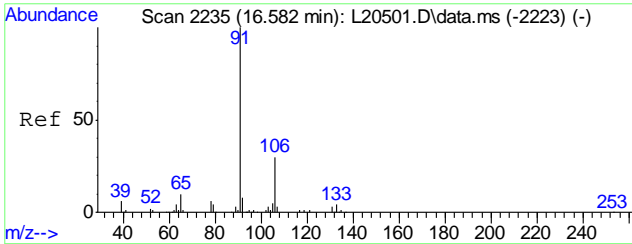
Tgt Ion	Resp	Lower	Upper
58	302130		
58	100		
43	349.8	334.6	374.6



#18  
Methylene Chloride  
Concen: 0.88 ug/Kg  
RT: 8.986 min Scan# 843  
Delta R.T. 0.005 min  
Lab File: L22483.D  
Acq: 2 Feb 2013 6:07 pm

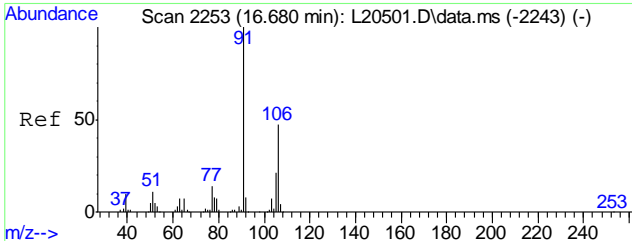
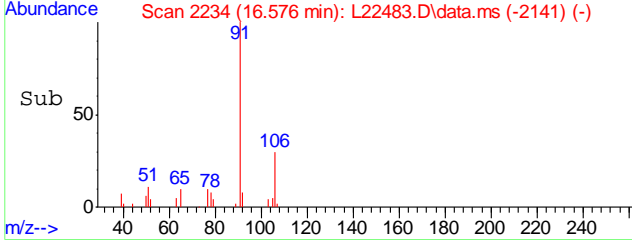
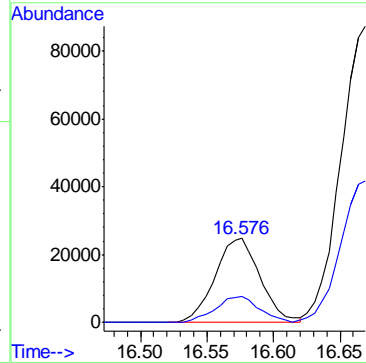
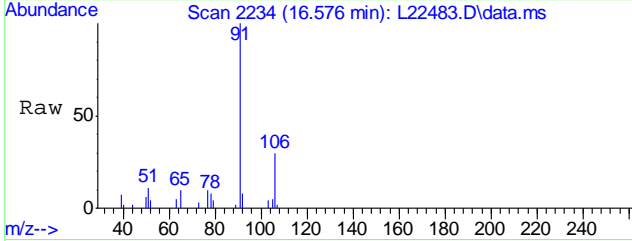
Tgt Ion	Resp	Lower	Upper
84	53228		
84	100		
49	151.5	125.6	165.6
86	55.0	43.6	83.6





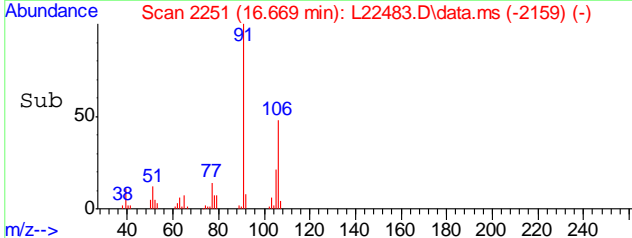
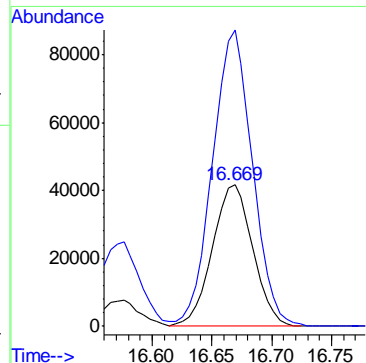
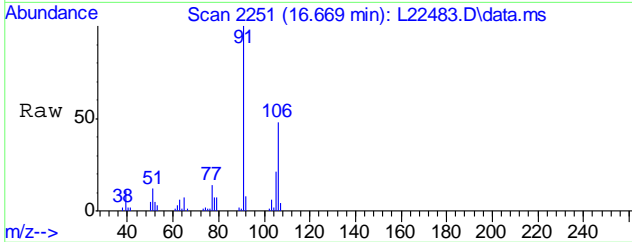
#64  
Ethyl Benzene  
Concen: 2.19 ug/Kg  
RT: 16.576 min Scan# 2234  
Delta R.T. 0.005 min  
Lab File: L22483.D  
Acq: 2 Feb 2013 6:07 pm

Tgt Ion: 91 Resp: 585470  
Ion Ratio Lower Upper  
91 100  
106 29.8 10.3 50.3

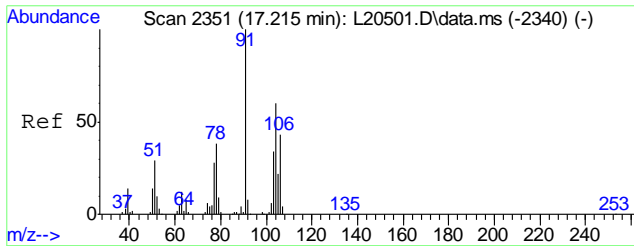


#65  
Xylene, m+p  
Concen: 9.18 ug/Kg  
RT: 16.669 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: L22483.D  
Acq: 2 Feb 2013 6:07 pm

Tgt Ion: 106 Resp: 973248  
Ion Ratio Lower Upper  
106 100  
91 207.8 187.1 227.1

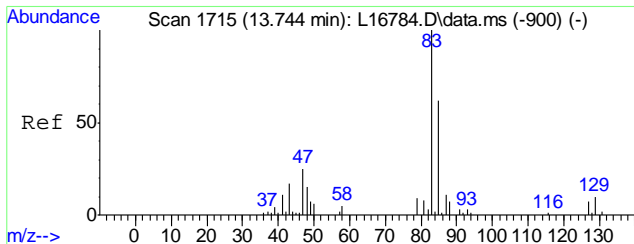
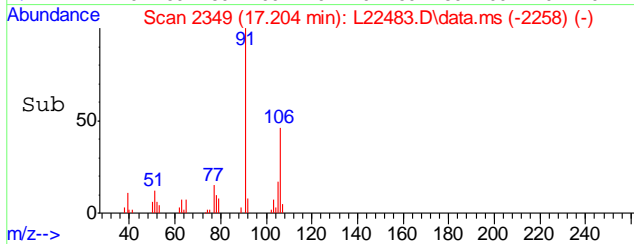
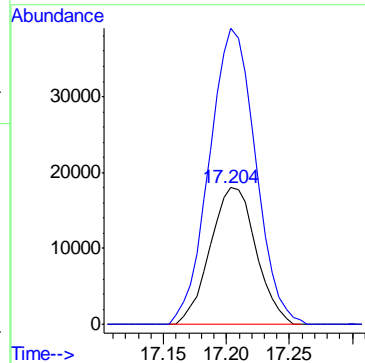
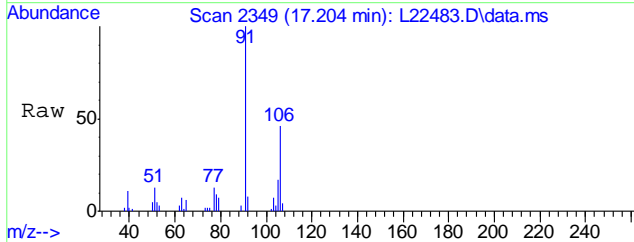






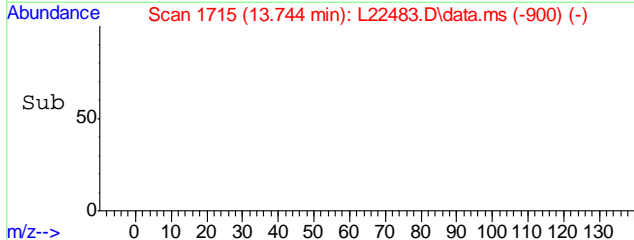
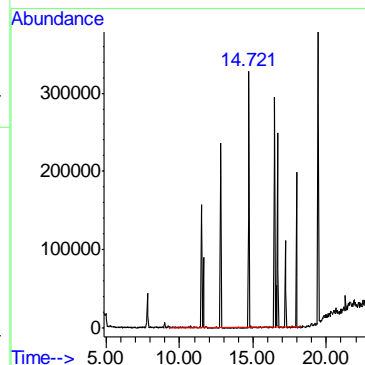
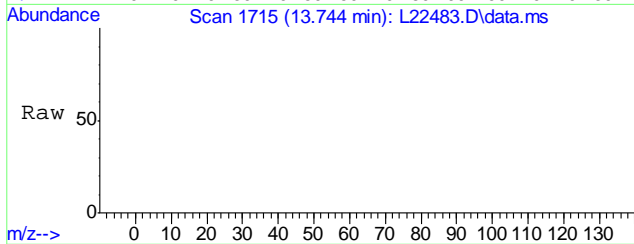
#66  
 Xylene, o  
 Concen: 4.44 ug/Kg  
 RT: 17.204 min Scan# 2349  
 Delta R.T. -0.006 min  
 Lab File: L22483.D  
 Acq: 2 Feb 2013 6:07 pm

Tgt Ion:106 Resp: 454896  
 Ion Ratio Lower Upper  
 106 100  
 91 218.7 197.4 237.4



#96  
 TPH-GRO (C6-C10)  
 Concen: 41.82 ug/Kg m  
 RT: 13.747 min Scan# 1715  
 Delta R.T. 0.000 min  
 Lab File: L22483.D  
 Acq: 2 Feb 2013 6:07 pm

Tgt Ion:TIC Resp: 9773902



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22484.D  
Acq On : 2 Feb 2013 6:35 pm  
Operator : XINGB  
Sample : C25941-7  
Misc : MS1656,VL712,5.15,,,,,1  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 04 08:04:01 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

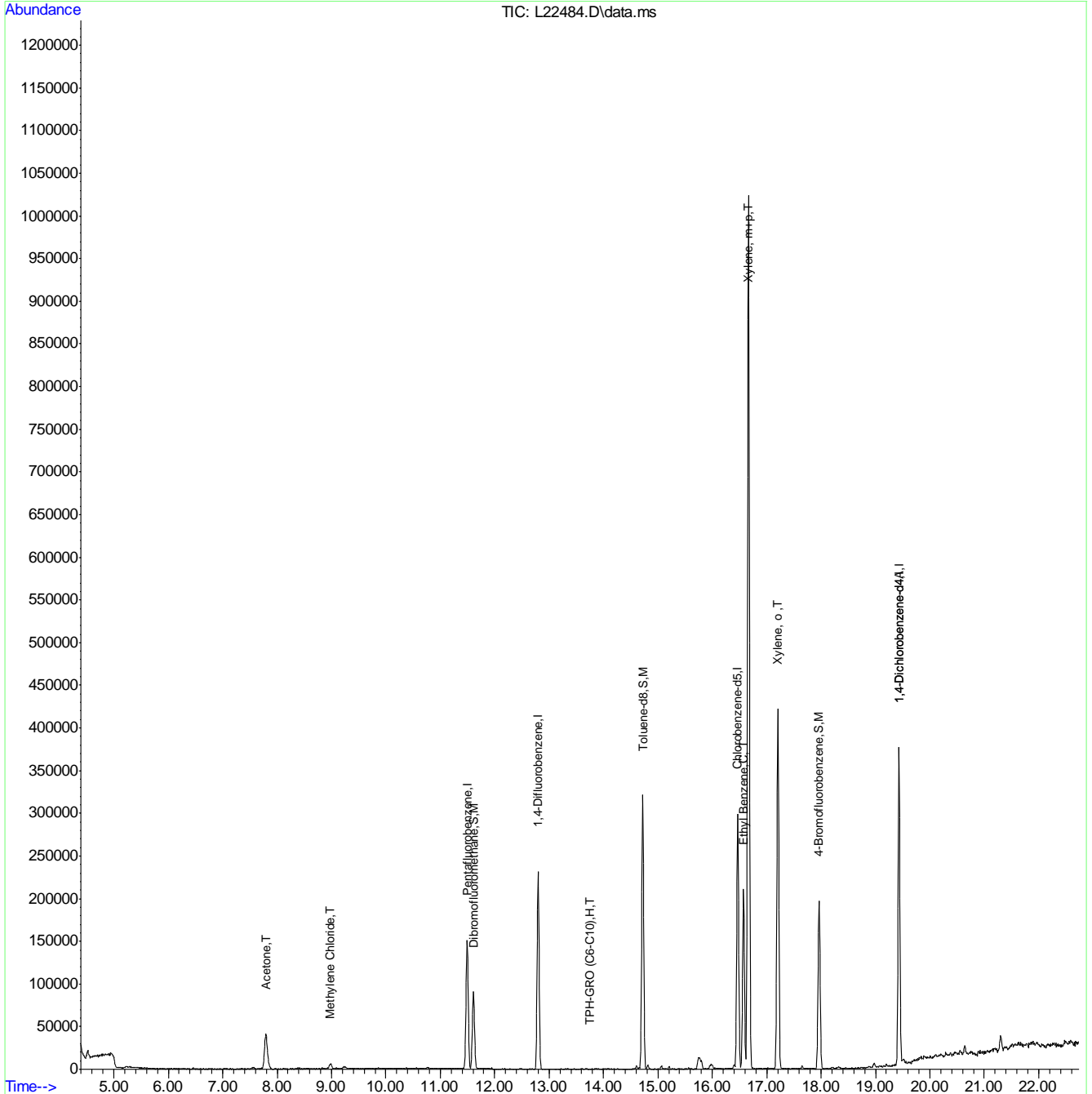
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	11.491	168	1486135	20.00	ug/Kg	0.00	
38) 1,4-Difluorobenzene	12.800	114	2539462	20.00	ug/Kg	0.00	
52) Chlorobenzene-d5	16.467	117	2222923	20.00	ug/Kg	0.00	
74) 1,4-Dichlorobenzene-d4	19.430	152	1135240	20.00	ug/Kg	0.00	
95) 1,4-Dichlorobenzene-d4A	19.430	152	1135240	20.00	ug/Kg	-0.02	
System Monitoring Compounds							
34) Dibromofluoromethane	11.611	111	826854	20.91	ug/Kg	0.00	
Spiked Amount	20.000	Range	70 - 130	Recovery	=	104.55%	
53) Toluene-d8	14.721	98	2929979	19.46	ug/Kg	0.00	
Spiked Amount	20.000	Range	70 - 130	Recovery	=	97.30%	
71) 4-Bromofluorobenzene	17.962	95	1116511	19.19	ug/Kg	0.00	
Spiked Amount	20.000	Range	70 - 130	Recovery	=	95.95%	
Target Compounds							
10) Acetone	7.791	58	294594	54.68	ug/Kg	99	Qvalue
18) Methylene Chloride	8.981	84	45764	0.78	ug/Kg	88	
64) Ethyl Benzene	16.571	91	2152935	8.12	ug/Kg	99	
65) Xylene, m+p	16.669	106	4040984	38.50	ug/Kg	99	
66) Xylene, o	17.204	106	1685577	16.61	ug/Kg	99	
96) TPH-GRO (C6-C10)	13.747	TIC	41180826m	179.50	ug/Kg		

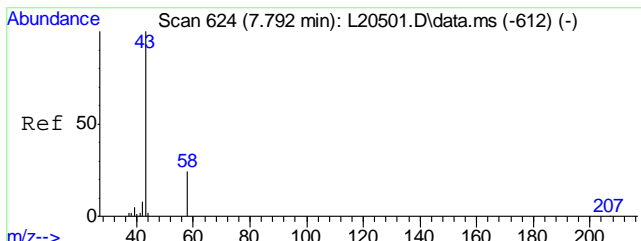
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22484.D  
Acq On : 2 Feb 2013 6:35 pm  
Operator : XINGB  
Sample : C25941-7  
Misc : MS1656,VL712,5.15,,,1  
ALS Vial : 18 Sample Multiplier: 1

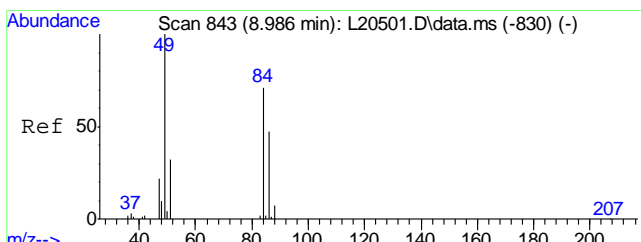
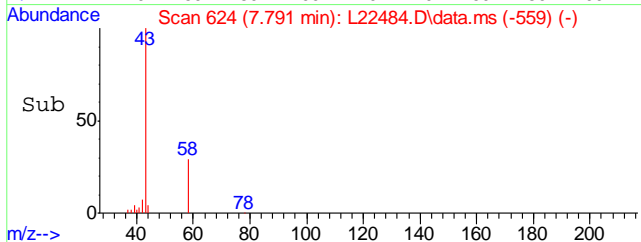
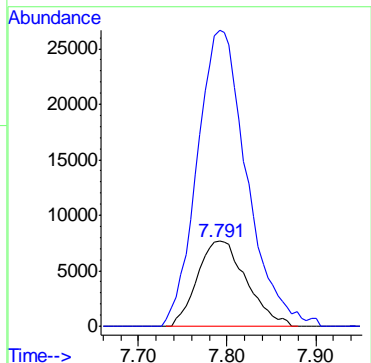
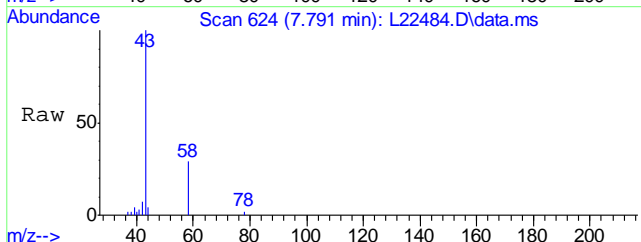
Quant Time: Feb 04 08:04:01 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





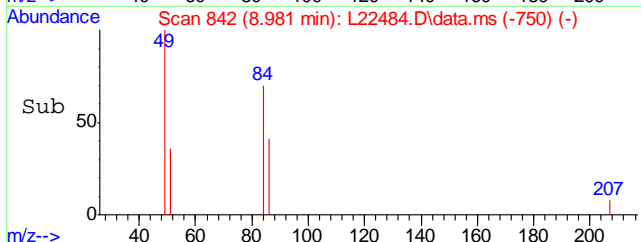
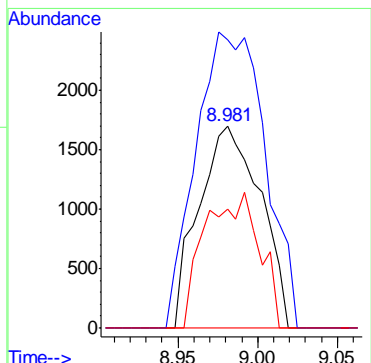
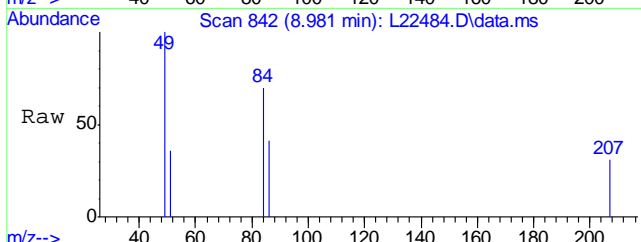
#10  
Acetone  
Concen: 54.68 ug/Kg  
RT: 7.791 min Scan# 624  
Delta R.T. 0.005 min  
Lab File: L22484.D  
Acq: 2 Feb 2013 6:35 pm

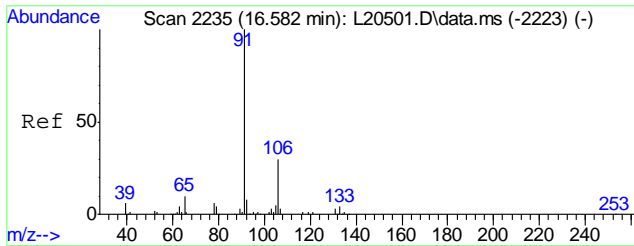
Tgt Ion	Resp	Lower	Upper
58	294594		
58	100		
43	351.7	334.6	374.6



#18  
Methylene Chloride  
Concen: 0.78 ug/Kg  
RT: 8.981 min Scan# 842  
Delta R.T. -0.000 min  
Lab File: L22484.D  
Acq: 2 Feb 2013 6:35 pm

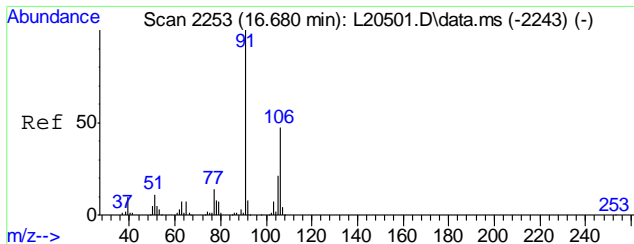
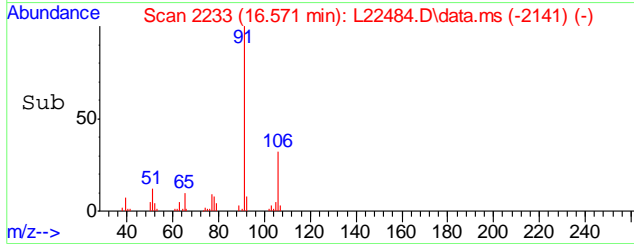
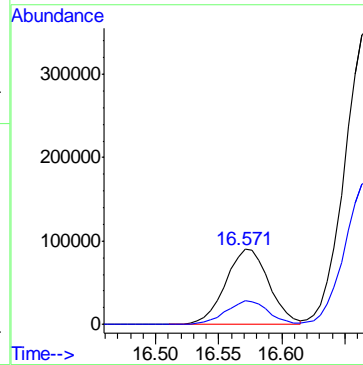
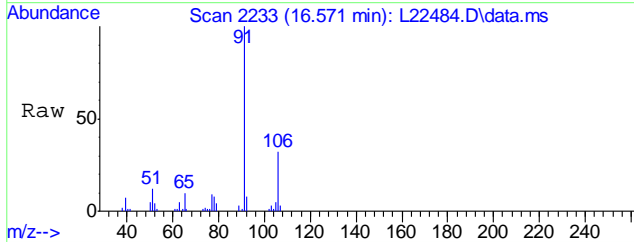
Tgt Ion	Resp	Lower	Upper
84	45764		
84	100		
49	163.7	125.6	165.6
86	59.4	43.6	83.6





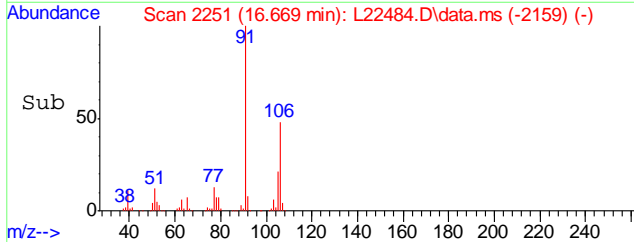
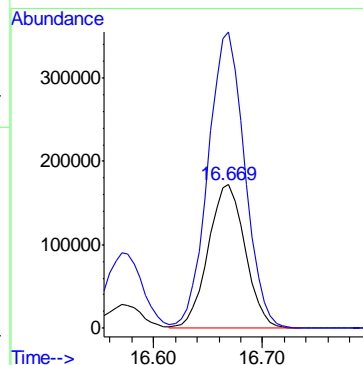
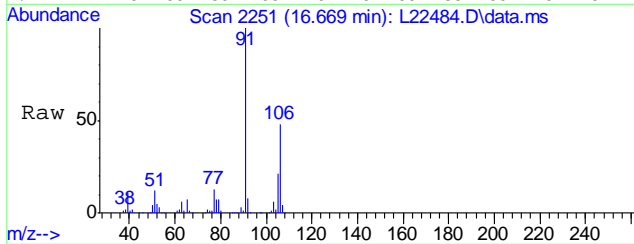
#64  
Ethyl Benzene  
Concen: 8.12 ug/Kg  
RT: 16.571 min Scan# 2233  
Delta R.T. -0.000 min  
Lab File: L22484.D  
Acq: 2 Feb 2013 6:35 pm

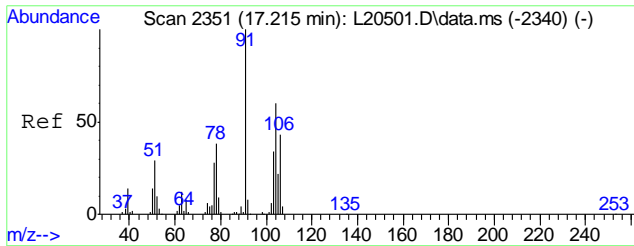
Tgt Ion: 91 Resp: 2152935  
Ion Ratio Lower Upper  
91 100  
106 30.7 10.3 50.3



#65  
Xylene, m+p  
Concen: 38.50 ug/Kg  
RT: 16.669 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: L22484.D  
Acq: 2 Feb 2013 6:35 pm

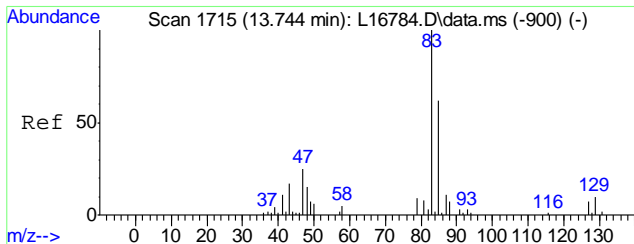
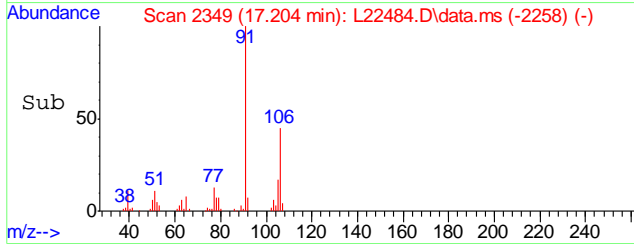
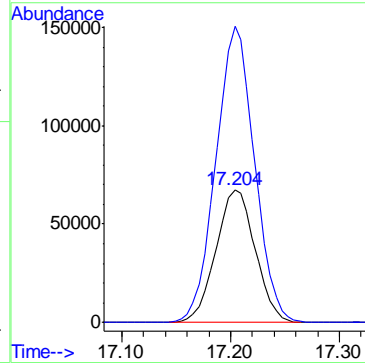
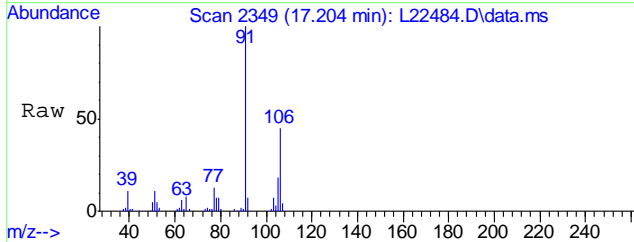
Tgt Ion: 106 Resp: 4040984  
Ion Ratio Lower Upper  
106 100  
91 205.2 187.1 227.1





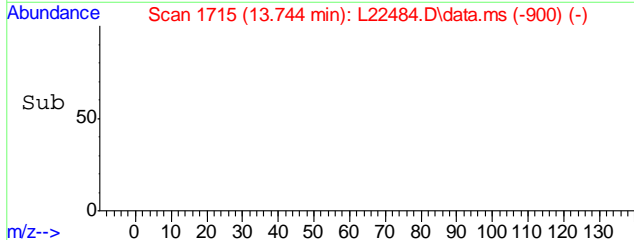
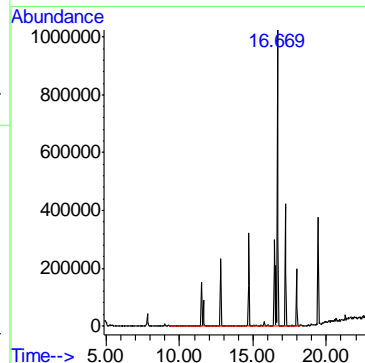
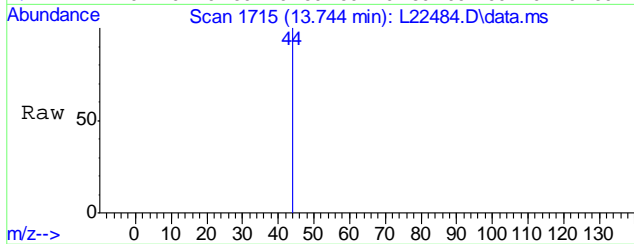
#66  
 Xylene, o  
 Concen: 16.61 ug/Kg  
 RT: 17.204 min Scan# 2349  
 Delta R.T. -0.006 min  
 Lab File: L22484.D  
 Acq: 2 Feb 2013 6:35 pm

Tgt Ion:106 Resp: 1685577  
 Ion Ratio Lower Upper  
 106 100  
 91 219.5 197.4 237.4



#96  
 TPH-GRO (C6-C10)  
 Concen: 179.50 ug/Kg m  
 RT: 13.747 min Scan# 1715  
 Delta R.T. 0.000 min  
 Lab File: L22484.D  
 Acq: 2 Feb 2013 6:35 pm

Tgt Ion:TIC Resp:41180826



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22485.D  
 Acq On : 2 Feb 2013 7:04 pm  
 Operator : XINGB  
 Sample : C25941-8  
 Misc : MS1656,VL712,5.20,,,,,1  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 04 07:37:46 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

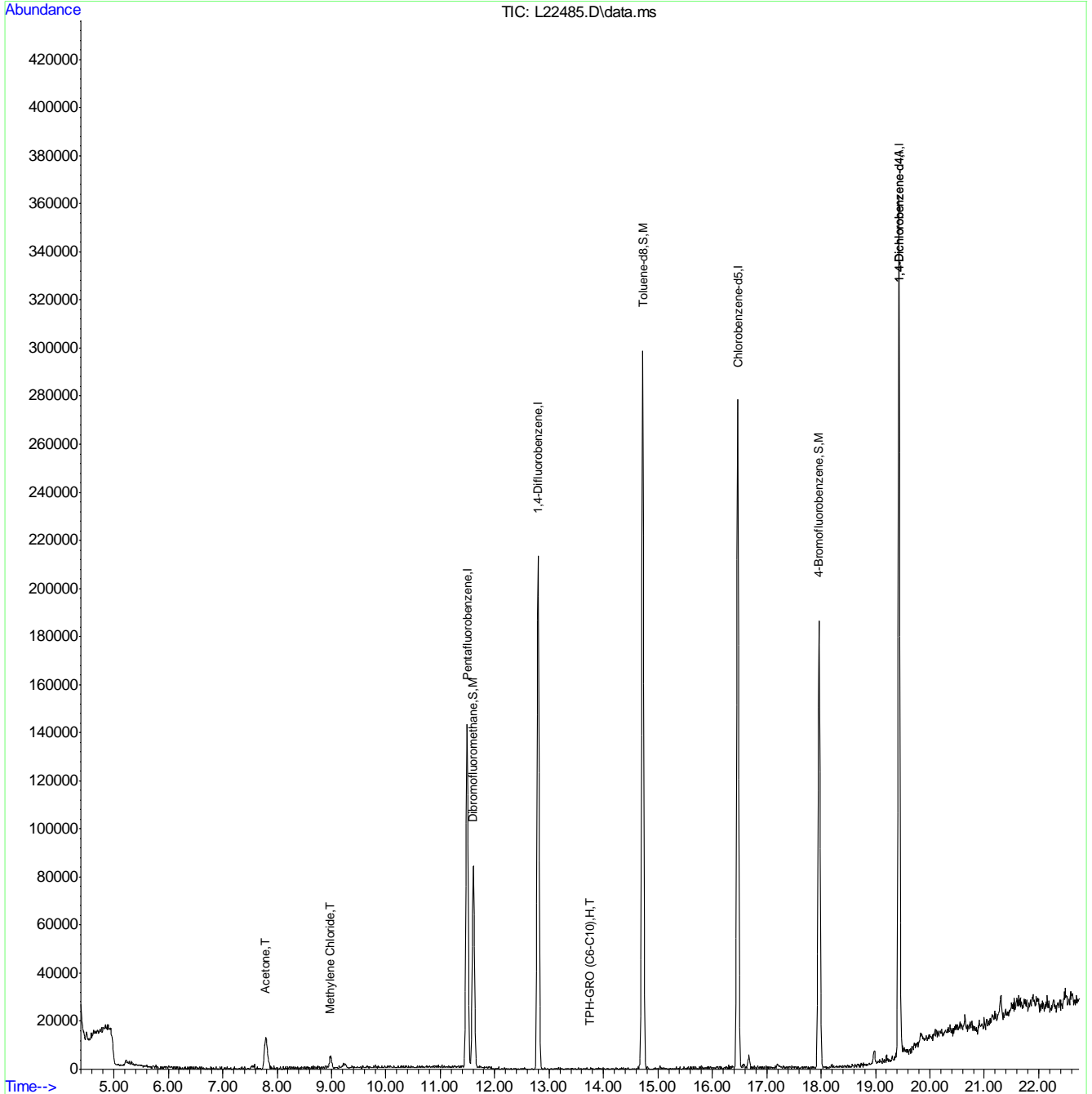
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1414961	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.795	114	2407110	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.473	117	2110590	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1073588	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1073588	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.606	111	794372	21.10	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery	=	105.50%	
53) Toluene-d8	14.721	98	2753079	19.26	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery	=	96.30%	
71) 4-Bromofluorobenzene	17.962	95	1069882	19.37	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery	=	96.85%	
Target Compounds						
10) Acetone	7.786	58	97237	18.96	ug/Kg	95
18) Methylene Chloride	8.981	84	36865	0.66	ug/Kg	88
96) TPH-GRO (C6-C10)	13.747	TIC	508677m	2.34	ug/Kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

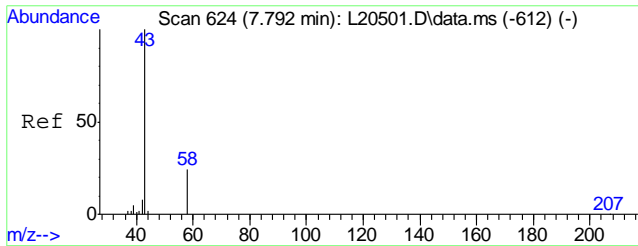
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22485.D  
Acq On : 2 Feb 2013 7:04 pm  
Operator : XINGB  
Sample : C25941-8  
Misc : MS1656,VL712,5.20,,,,,1  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 04 07:37:46 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

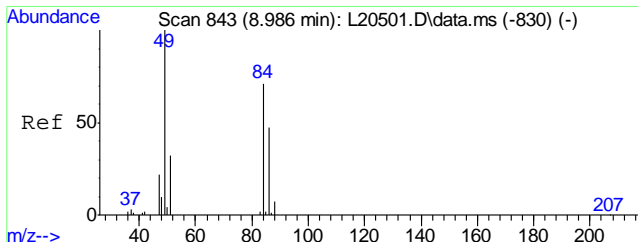
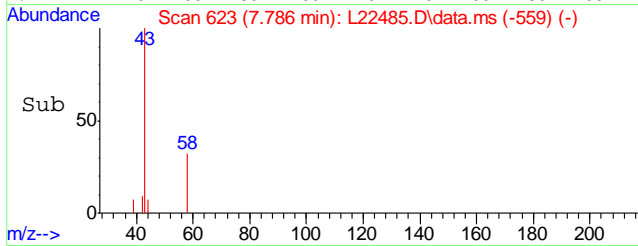
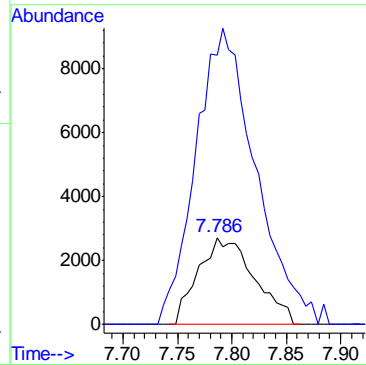
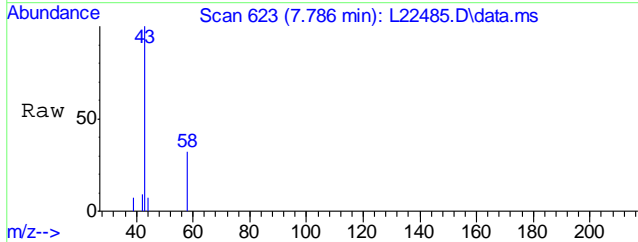






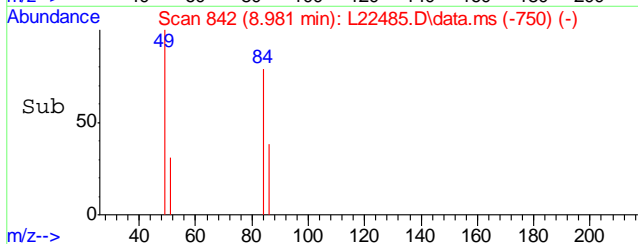
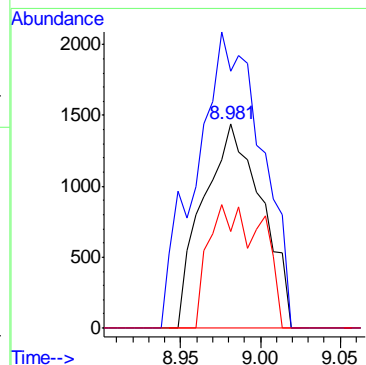
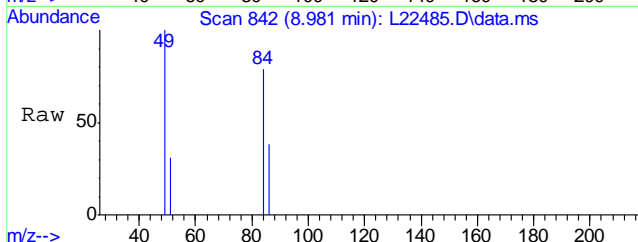
#10  
 Acetone  
 Concen: 18.96 ug/Kg  
 RT: 7.786 min Scan# 623  
 Delta R.T. 0.000 min  
 Lab File: L22485.D  
 Acq: 2 Feb 2013 7:04 pm

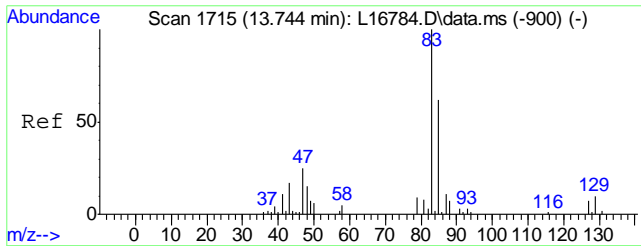
Tgt Ion	Resp	Lower	Upper
58	97237		
43	366.1	334.6	374.6



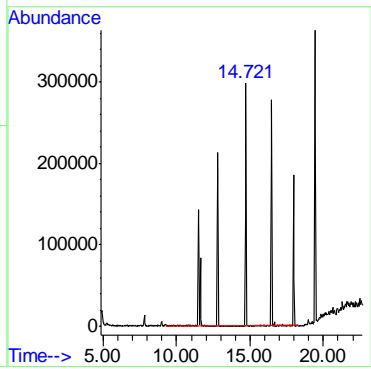
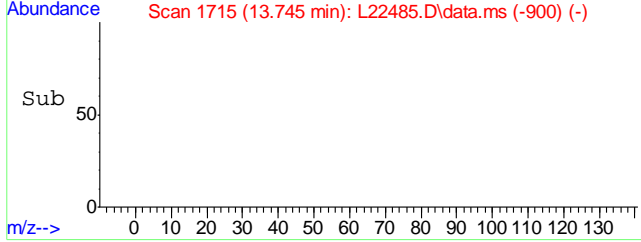
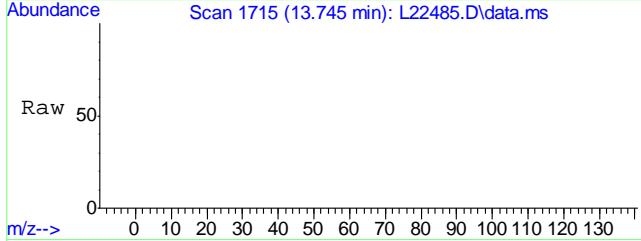
#18  
 Methylene Chloride  
 Concen: 0.66 ug/Kg  
 RT: 8.981 min Scan# 842  
 Delta R.T. 0.000 min  
 Lab File: L22485.D  
 Acq: 2 Feb 2013 7:04 pm

Tgt Ion	Resp	Lower	Upper
84	36865		
49	161.7	125.6	165.6
86	54.8	43.6	83.6





#96  
TPH-GRO (C6-C10)  
Concen: 2.34 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22485.D  
Acq: 2 Feb 2013 7:04 pm  
Tgt Ion:TIC Resp: 508677



6.1.8  
6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22486.D  
 Acq On : 2 Feb 2013 7:33 pm  
 Operator : XINGB  
 Sample : C25941-9  
 Misc : MS1656,VL712,5.05,,,,,1  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 04 07:37:48 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

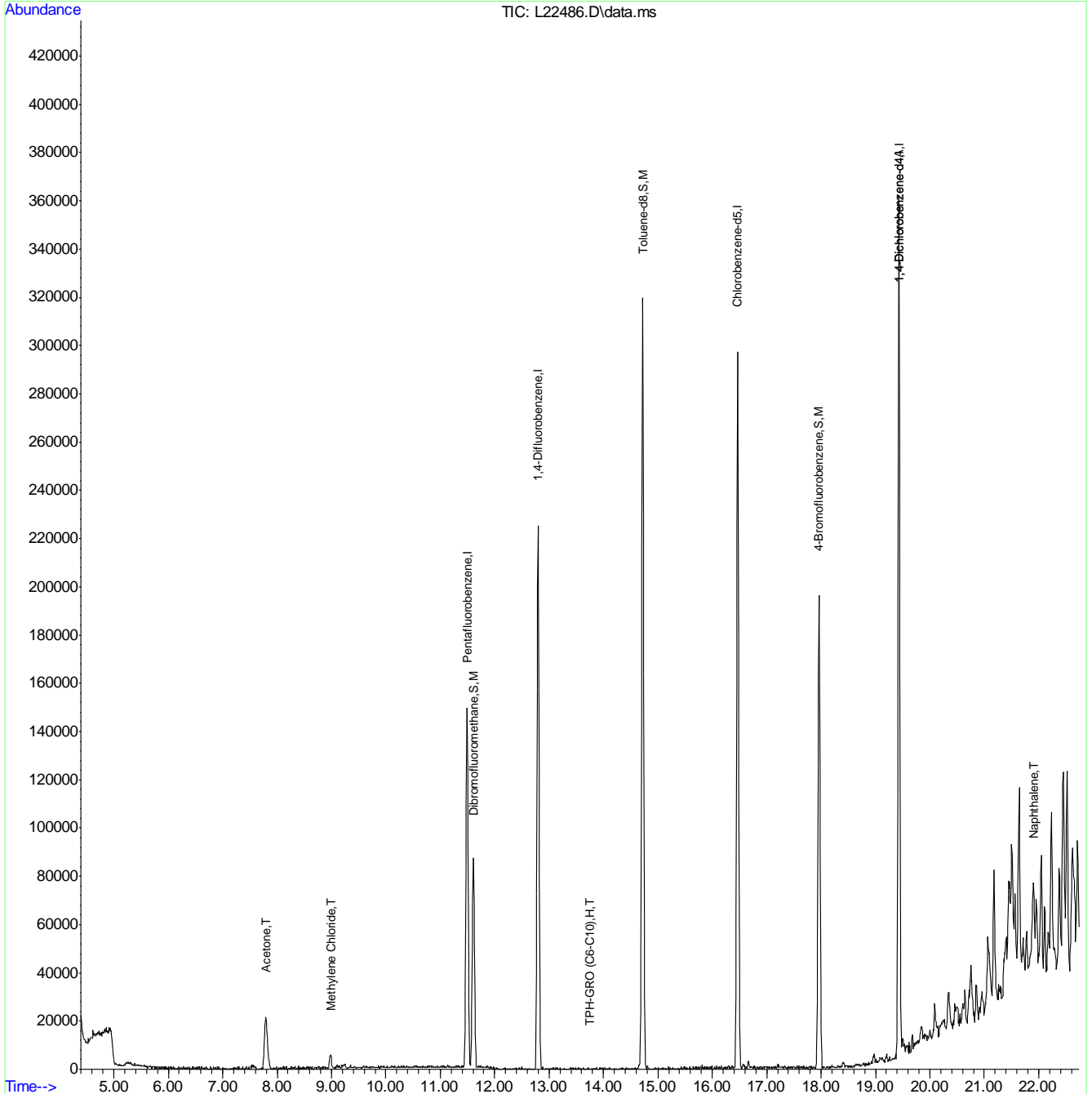
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1479825	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.800	114	2504330	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2209921	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1098730	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1098730	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	828370	21.03	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery =	105.15%		
53) Toluene-d8	14.721	98	2888538	19.30	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery =	96.50%		
71) 4-Bromofluorobenzene	17.962	95	1093732	18.91	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery =	94.55%		
Target Compounds						
10) Acetone	7.791	58	159781	29.78	ug/Kg	97
18) Methylene Chloride	8.986	84	36356	0.62	ug/Kg#	84
93) Naphthalene	21.902	128	286266	1.58	ug/Kg	100
96) TPH-GRO (C6-C10)	13.747	TIC	177462m	0.80	ug/Kg	

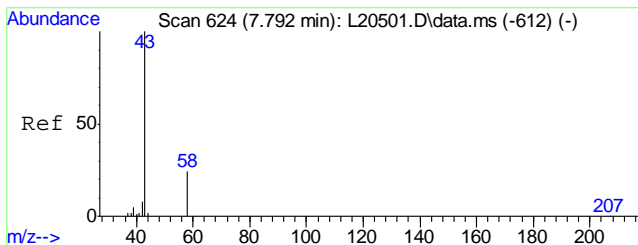
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22486.D  
Acq On : 2 Feb 2013 7:33 pm  
Operator : XINGB  
Sample : C25941-9  
Misc : MS1656,VL712,5.05,,,,,1  
ALS Vial : 20 Sample Multiplier: 1

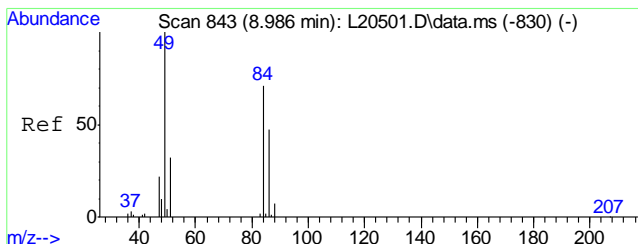
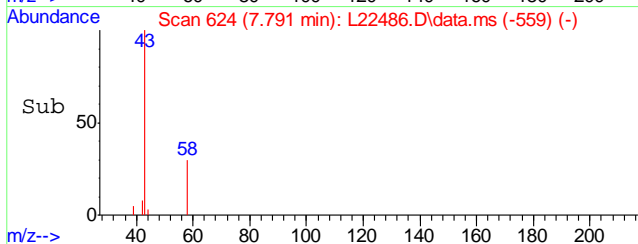
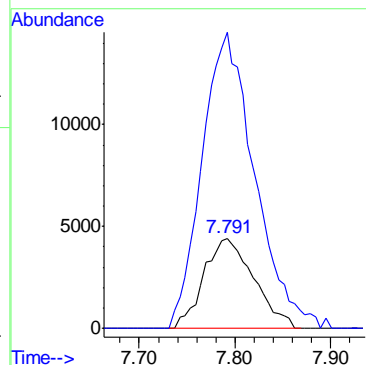
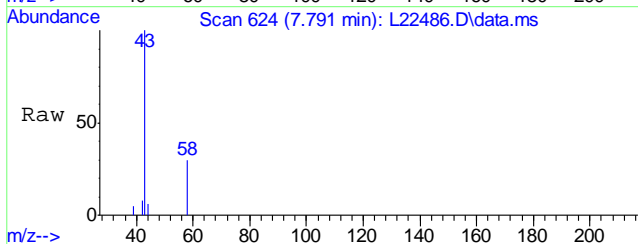
Quant Time: Feb 04 07:37:48 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





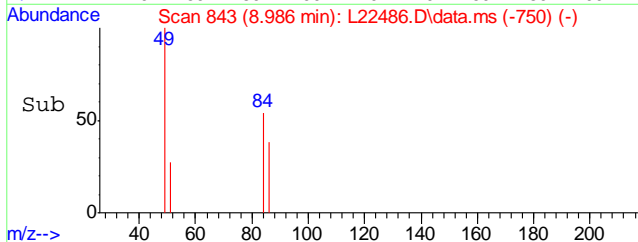
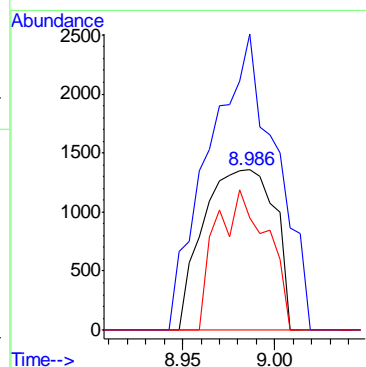
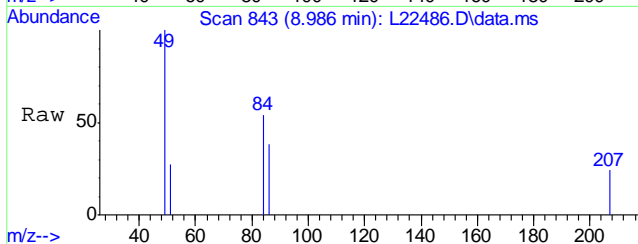
#10  
Acetone  
Concen: 29.78 ug/Kg  
RT: 7.791 min Scan# 624  
Delta R.T. 0.005 min  
Lab File: L22486.D  
Acq: 2 Feb 2013 7:33 pm

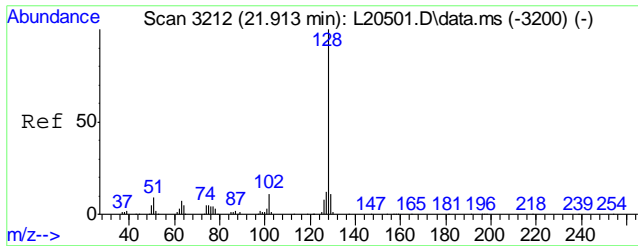
Tgt Ion: 58 Resp: 159781  
Ion Ratio Lower Upper  
58 100  
43 347.9 334.6 374.6



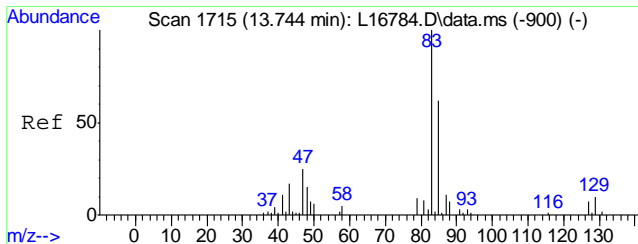
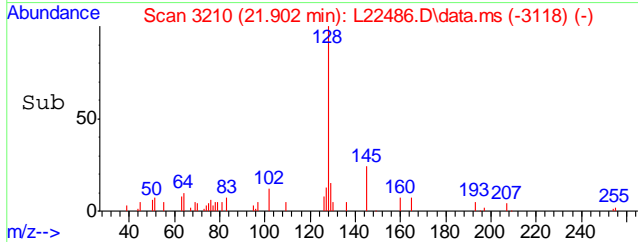
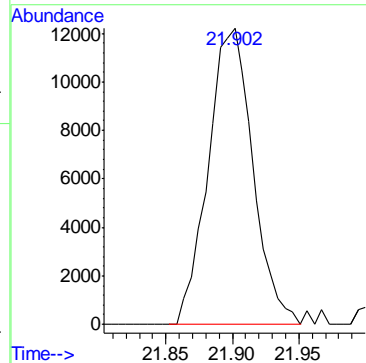
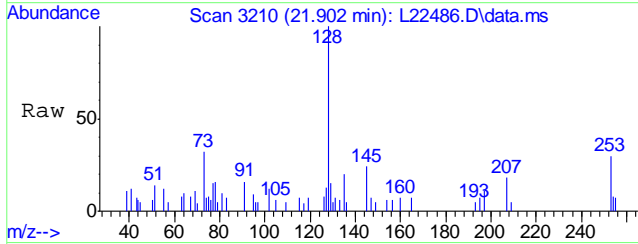
#18  
Methylene Chloride  
Concen: 0.62 ug/Kg  
RT: 8.986 min Scan# 843  
Delta R.T. 0.005 min  
Lab File: L22486.D  
Acq: 2 Feb 2013 7:33 pm

Tgt Ion: 84 Resp: 36356  
Ion Ratio Lower Upper  
84 100  
49 173.6 125.6 165.6#  
86 63.0 43.6 83.6

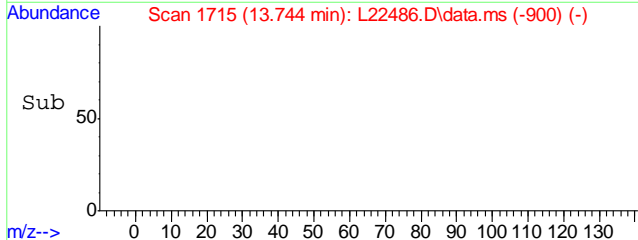
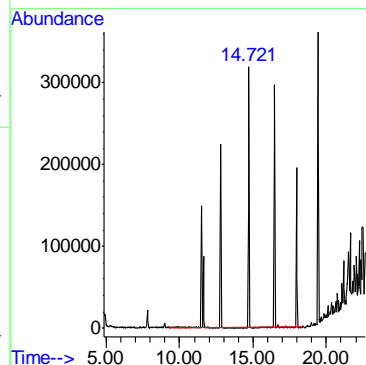
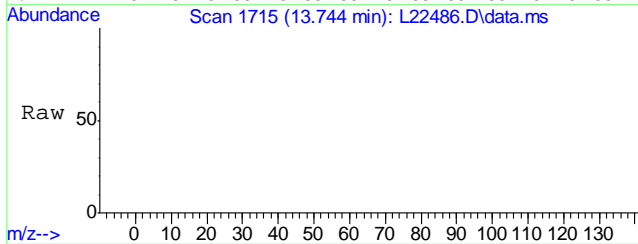




#93  
 Naphthalene  
 Concen: 1.58 ug/Kg  
 RT: 21.902 min Scan# 3210  
 Delta R.T. -0.000 min  
 Lab File: L22486.D  
 Acq: 2 Feb 2013 7:33 pm  
 Tgt Ion:128 Resp: 286266



#96  
 TPH-GRO (C6-C10)  
 Concen: 0.80 ug/Kg m  
 RT: 13.747 min Scan# 1715  
 Delta R.T. 0.000 min  
 Lab File: L22486.D  
 Acq: 2 Feb 2013 7:33 pm  
 Tgt Ion:TIC Resp: 177462



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22487.D  
Acq On : 2 Feb 2013 8:02 pm  
Operator : XINGB  
Sample : C25941-10  
Misc : MS1656,VL712,5.02,,,,,1  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 04 08:05:23 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1452441	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.801	114	2454319	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2210911	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1124046	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1124046	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.606	111	808700	20.92	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	104.60%
53) Toluene-d8	14.716	98	2868442	19.16	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	95.80%
71) 4-Bromofluorobenzene	17.962	95	1106078	19.12	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	95.60%
Target Compounds						
10) Acetone	7.781	58	105397	20.02	ug/Kg	99
18) Methylene Chloride	8.976	84	35690	0.62	ug/Kg	89
96) TPH-GRO (C6-C10)	13.747	TIC	2134322m	9.40	ug/Kg	

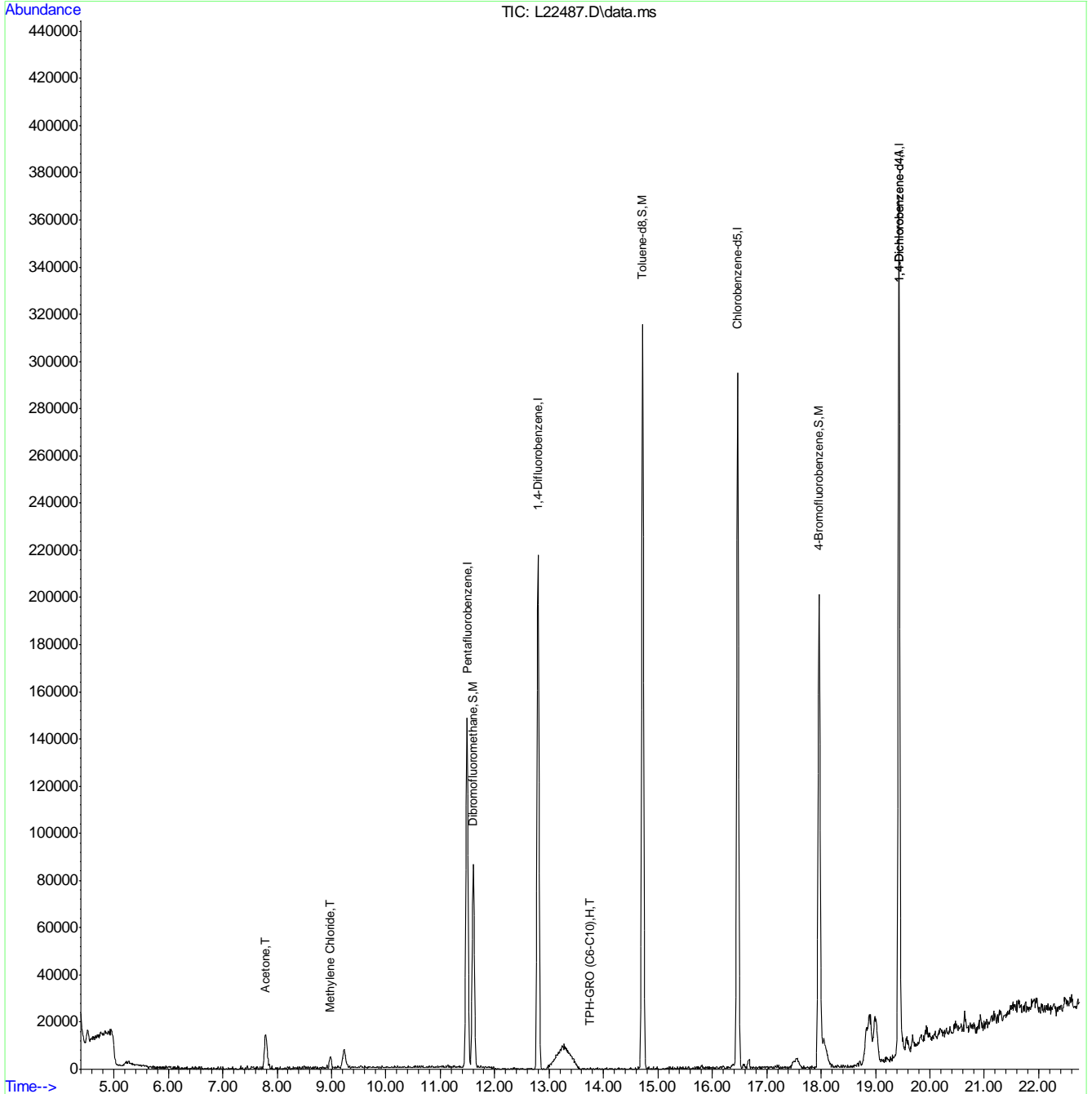
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.1.10  
6

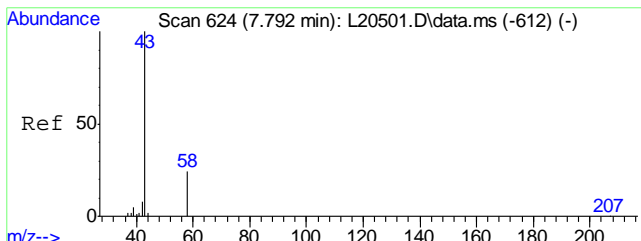
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22487.D  
Acq On : 2 Feb 2013 8:02 pm  
Operator : XINGB  
Sample : C25941-10  
Misc : MS1656,VL712,5.02,,,,,1  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 04 08:05:23 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

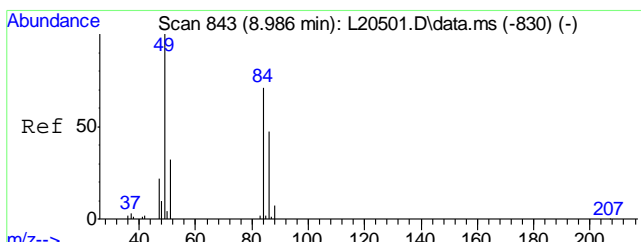
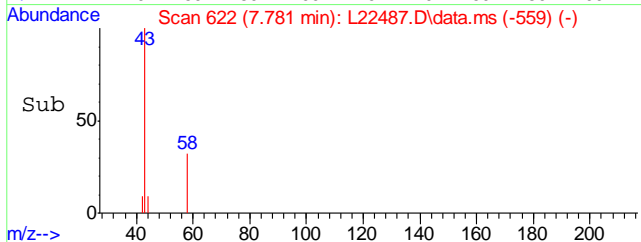
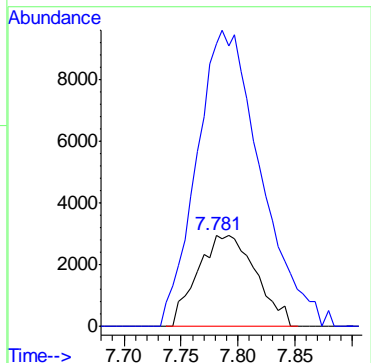
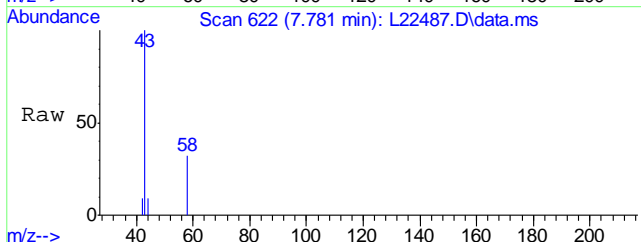






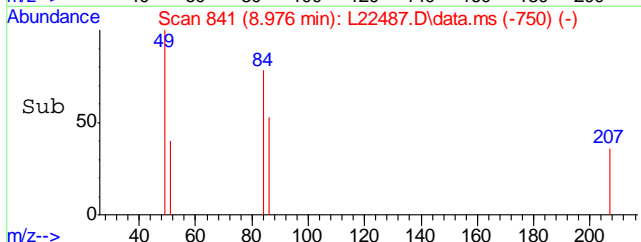
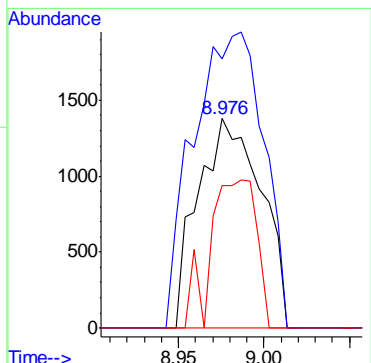
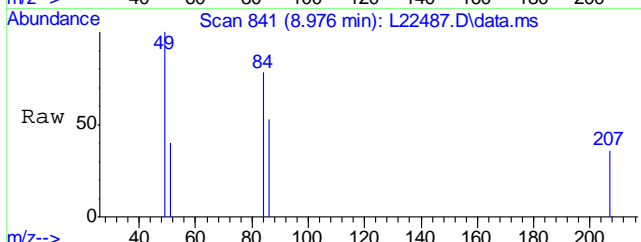
#10  
 Acetone  
 Concen: 20.02 ug/Kg  
 RT: 7.781 min Scan# 622  
 Delta R.T. -0.005 min  
 Lab File: L22487.D  
 Acq: 2 Feb 2013 8:02 pm

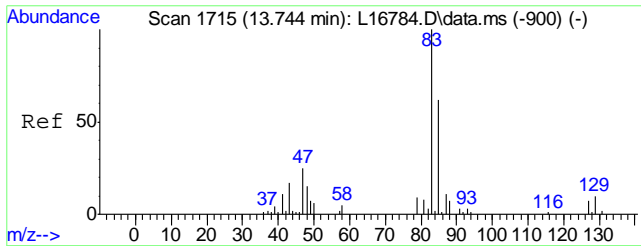
Tgt Ion	Resp	Lower	Upper
58	105397		
43	356.8	334.6	374.6



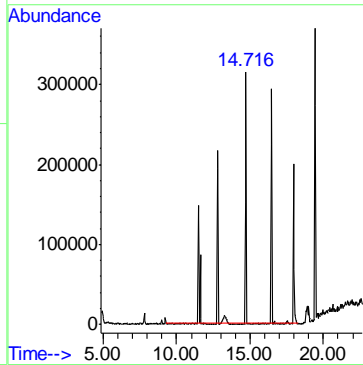
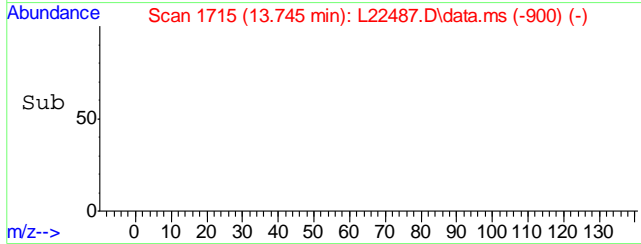
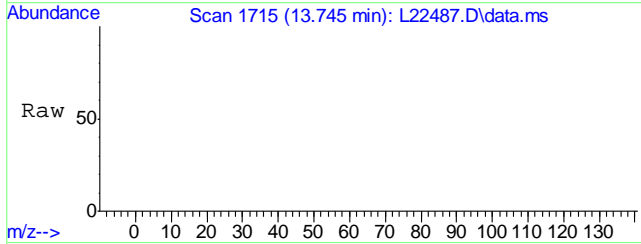
#18  
 Methylene Chloride  
 Concen: 0.62 ug/Kg  
 RT: 8.976 min Scan# 841  
 Delta R.T. -0.005 min  
 Lab File: L22487.D  
 Acq: 2 Feb 2013 8:02 pm

Tgt Ion	Resp	Lower	Upper
84	35690		
49	156.5	125.6	165.6
86	51.7	43.6	83.6





#96  
TPH-GRO (C6-C10)  
Concen: 9.40 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22487.D  
Acq: 2 Feb 2013 8:02 pm  
Tgt Ion:TIC Resp: 2134322



6.1.10  
6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22488.D  
 Acq On : 2 Feb 2013 8:30 pm  
 Operator : XINGB  
 Sample : C25941-11  
 Misc : MS1656,VL712,5.00,,,,,1  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 04 08:05:54 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

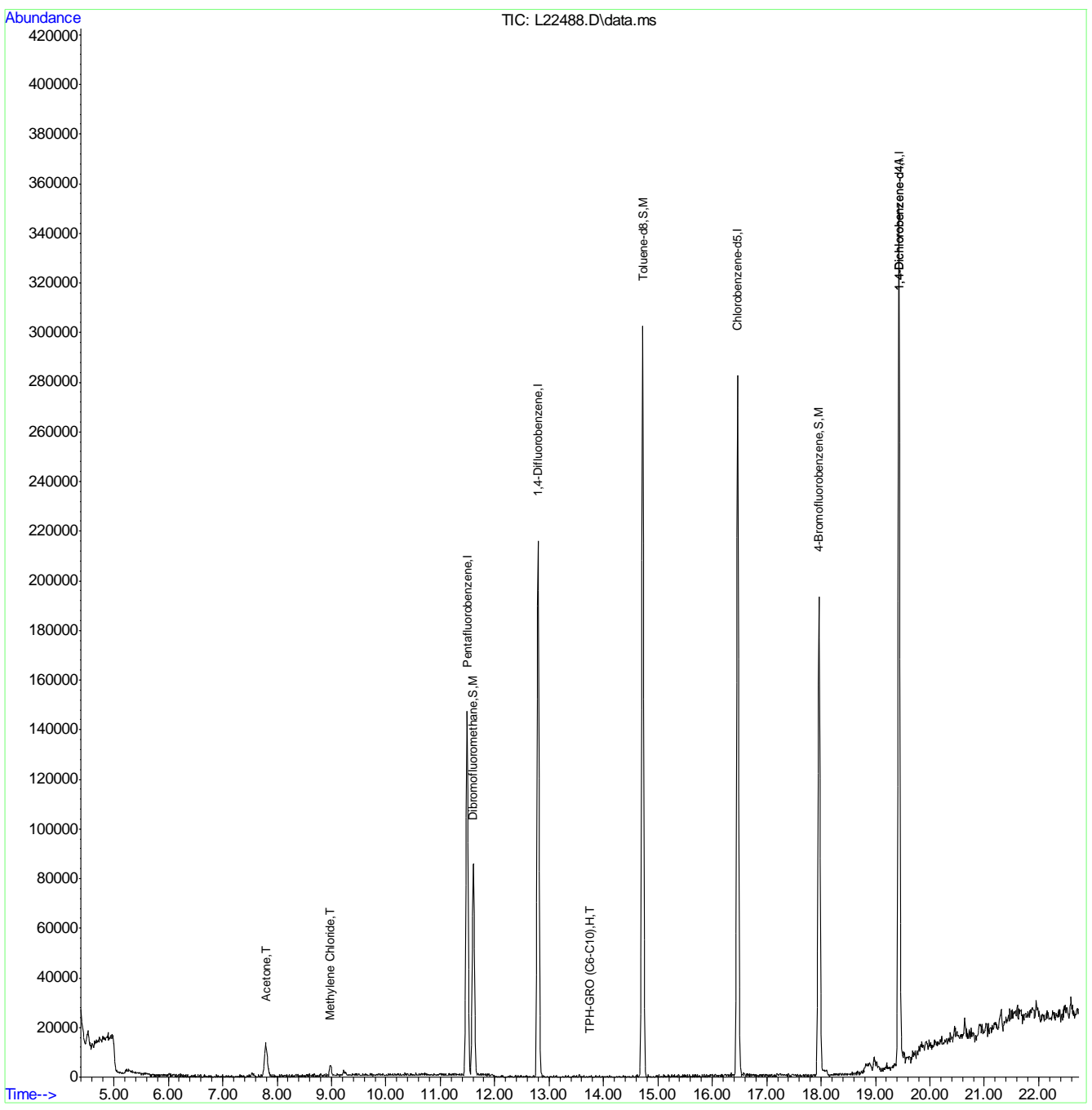
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1431442	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.801	114	2406659	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2131393	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1074353	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1074353	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.606	111	792424	20.80	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	104.00%
53) Toluene-d8	14.721	98	2790911	19.34	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.70%
71) 4-Bromofluorobenzene	17.962	95	1066507	19.12	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	95.60%
Target Compounds						
10) Acetone	7.797	58	98137	18.91	ug/Kg	98
18) Methylene Chloride	8.981	84	32526	0.57	ug/Kg	91
96) TPH-GRO (C6-C10)	13.747	TIC	594891m	2.74	ug/Kg	

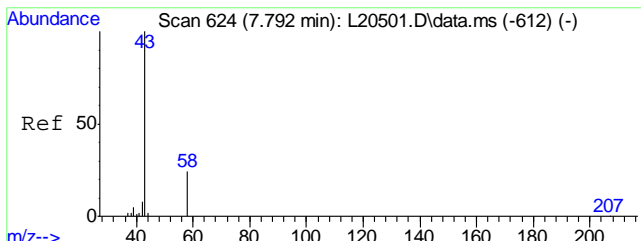
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22488.D  
Acq On : 2 Feb 2013 8:30 pm  
Operator : XINGB  
Sample : C25941-11  
Misc : MS1656,VL712,5.00,,,1  
ALS Vial : 22 Sample Multiplier: 1

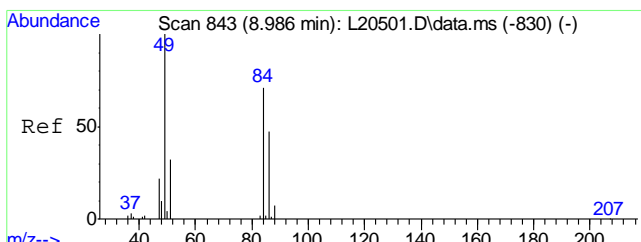
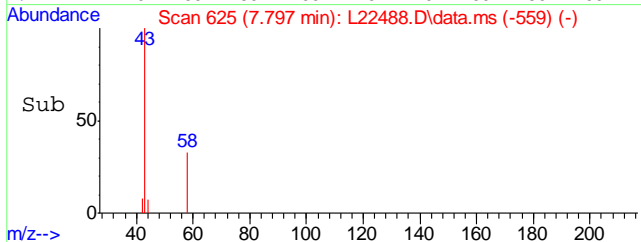
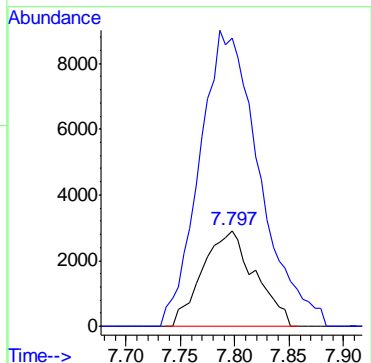
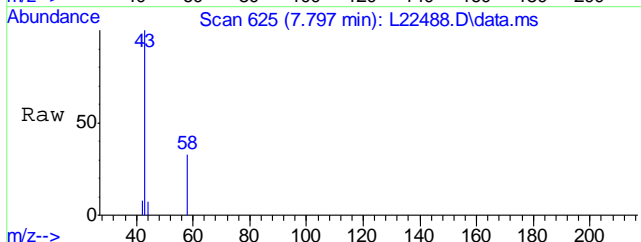
Quant Time: Feb 04 08:05:54 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





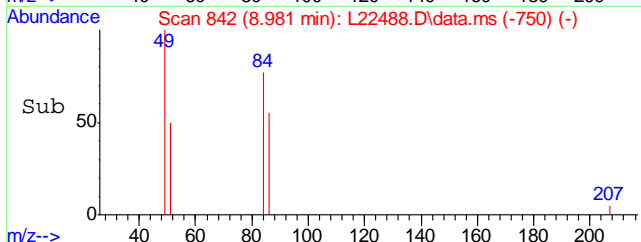
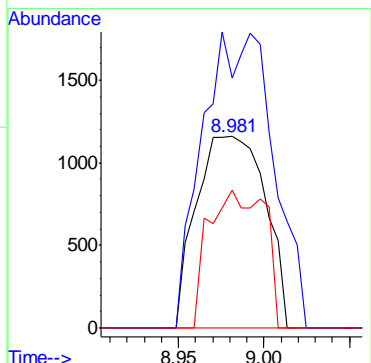
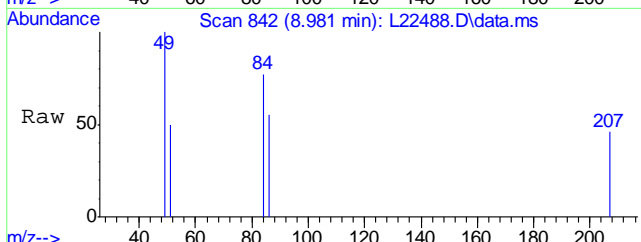
#10  
Acetone  
Concen: 18.91 ug/Kg  
RT: 7.797 min Scan# 625  
Delta R.T. 0.011 min  
Lab File: L22488.D  
Acq: 2 Feb 2013 8:30 pm

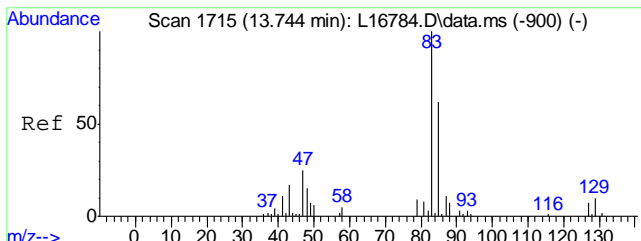
Tgt Ion	Resp	Lower	Upper
58	98137		
58	100		
43	351.2	334.6	374.6



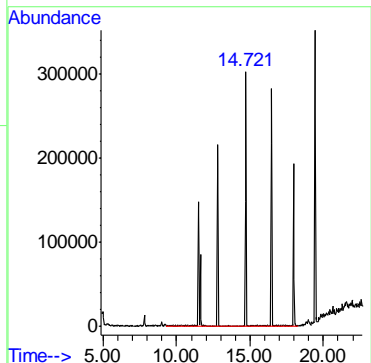
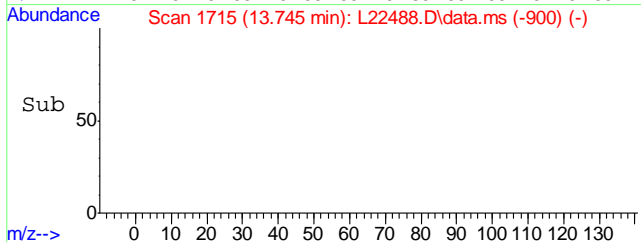
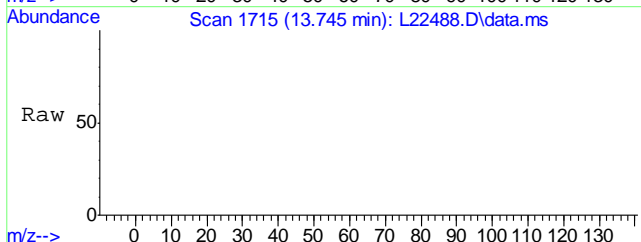
#18  
Methylene Chloride  
Concen: 0.57 ug/Kg  
RT: 8.981 min Scan# 842  
Delta R.T. 0.000 min  
Lab File: L22488.D  
Acq: 2 Feb 2013 8:30 pm

Tgt Ion	Resp	Lower	Upper
84	32526		
84	100		
49	158.1	125.6	165.6
86	58.7	43.6	83.6





#96  
 TPH-GRO (C6-C10)  
 Concen: 2.74 ug/Kg m  
 RT: 13.747 min Scan# 1715  
 Delta R.T. 0.000 min  
 Lab File: L22488.D  
 Acq: 2 Feb 2013 8:30 pm  
 Tgt Ion:TIC Resp: 594891



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22489.D  
 Acq On : 2 Feb 2013 8:59 pm  
 Operator : XINGB  
 Sample : C25941-12  
 Misc : MS1656,VL712,5.10,,,,,1  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 04 07:37:54 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

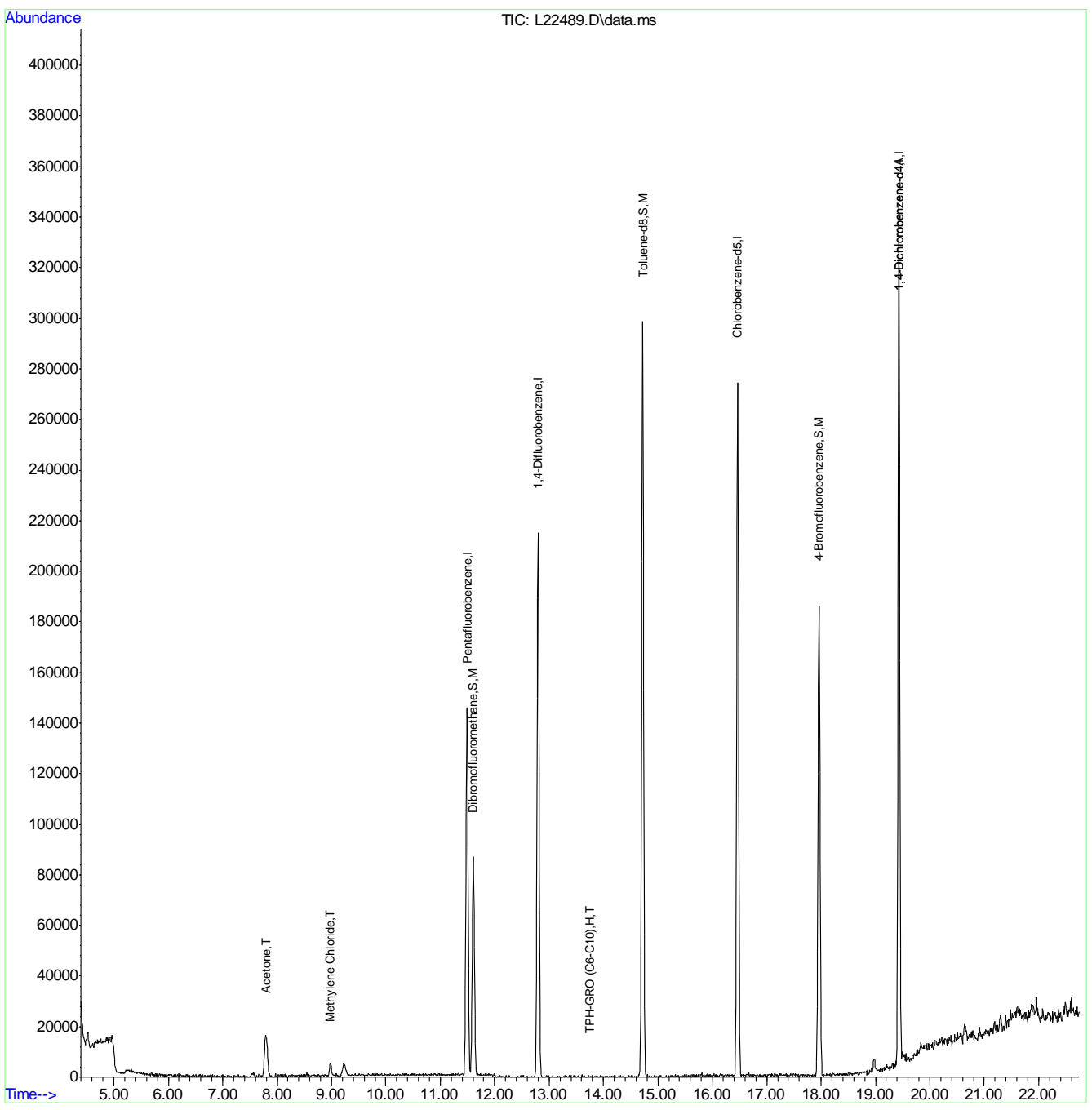
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1392807	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.800	114	2404532	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2091762	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1073224	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1073224	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.606	111	789599	21.30	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	106.50%
53) Toluene-d8	14.721	98	2740374	19.35	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.75%
71) 4-Bromofluorobenzene	17.962	95	1051099	19.20	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.00%
Target Compounds						
10) Acetone	7.797	58	113909	22.56	ug/Kg#	83
18) Methylene Chloride	8.981	84	31377	0.57	ug/Kg	90
96) TPH-GRO (C6-C10)	13.747	TIC	206626m	0.95	ug/Kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

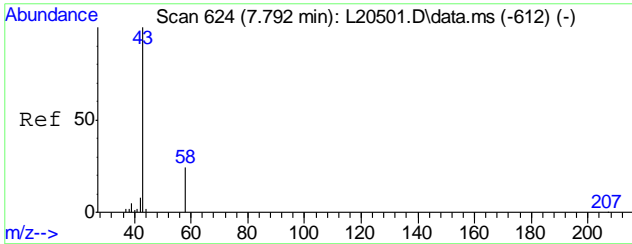
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22489.D  
Acq On : 2 Feb 2013 8:59 pm  
Operator : XINGB  
Sample : C25941-12  
Misc : MS1656,VL712,5.10,,,,,1  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 04 07:37:54 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

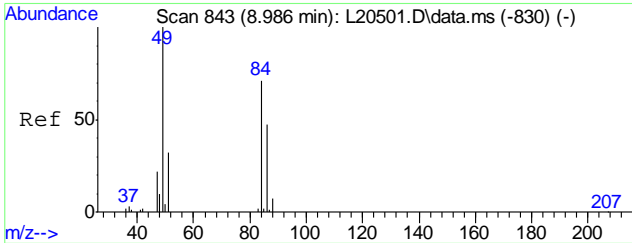
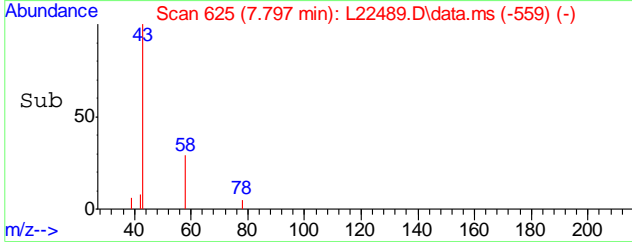
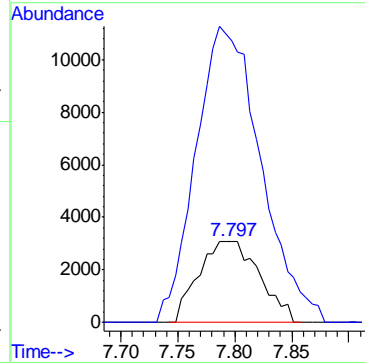
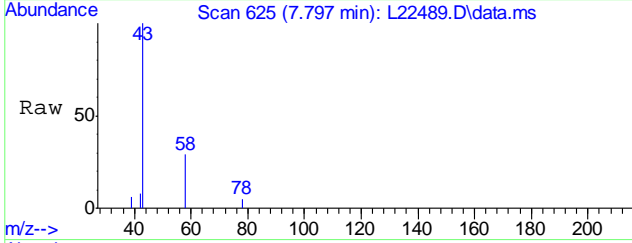






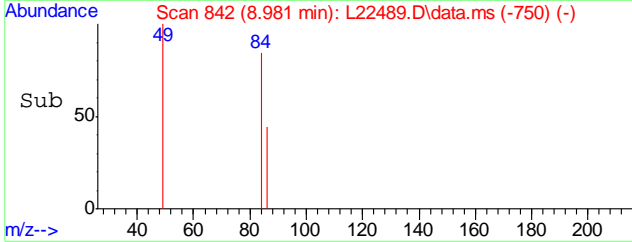
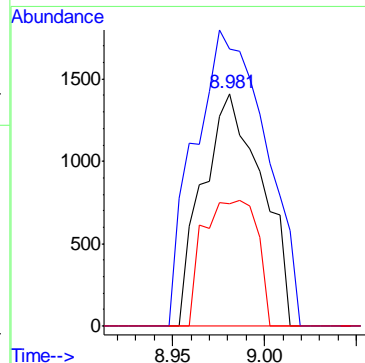
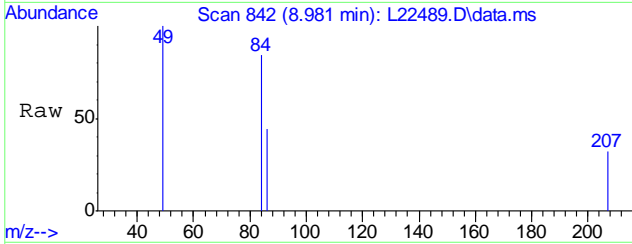
#10  
Acetone  
Concen: 22.56 ug/Kg  
RT: 7.797 min Scan# 625  
Delta R.T. 0.011 min  
Lab File: L22489.D  
Acq: 2 Feb 2013 8:59 pm

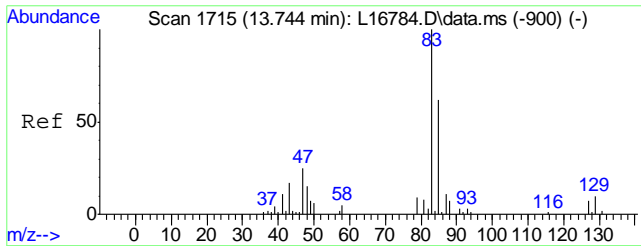
Tgt Ion: 58 Resp: 113909  
Ion Ratio Lower Upper  
58 100  
43 391.4 334.6 374.6#



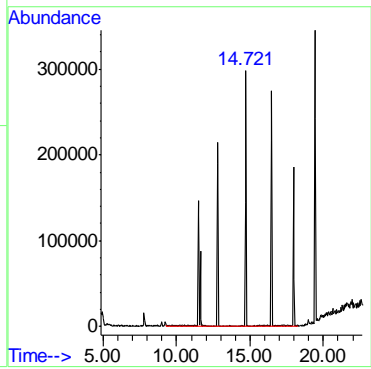
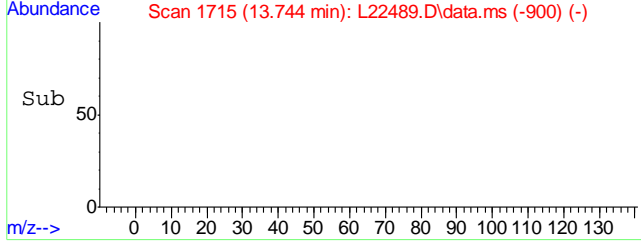
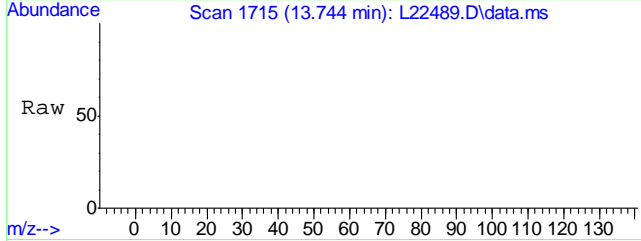
#18  
Methylene Chloride  
Concen: 0.57 ug/Kg  
RT: 8.981 min Scan# 842  
Delta R.T. -0.000 min  
Lab File: L22489.D  
Acq: 2 Feb 2013 8:59 pm

Tgt Ion: 84 Resp: 31377  
Ion Ratio Lower Upper  
84 100  
49 153.6 125.6 165.6  
86 49.3 43.6 83.6





#96  
TPH-GRO (C6-C10)  
Concen: 0.95 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22489.D  
Acq: 2 Feb 2013 8:59 pm  
Tgt Ion:TIC Resp: 206626



6.1.12  
6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22490.D  
 Acq On : 2 Feb 2013 9:28 pm  
 Operator : XINGB  
 Sample : C25941-13  
 Misc : MS1656,VL712,5.02,,,,,1  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 04 07:37:56 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

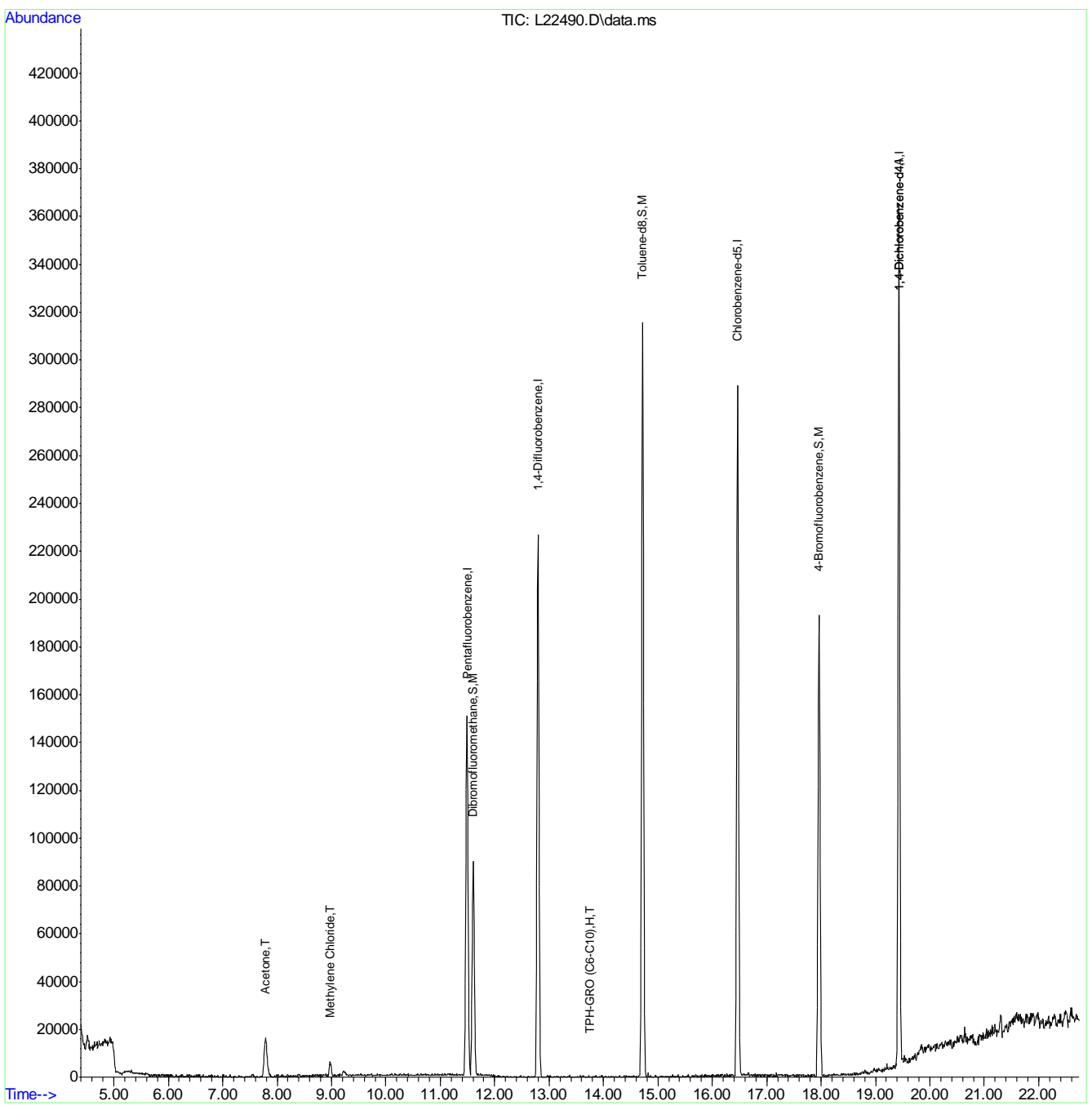
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1482850	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.795	114	2501944	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2219341	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1106797	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1106797	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.606	111	822479	20.84	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	104.20%
53) Toluene-d8	14.716	98	2890584	19.23	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.15%
71) 4-Bromofluorobenzene	17.962	95	1088150	18.73	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	93.65%
Target Compounds						
10) Acetone	7.786	58	116492	21.67	ug/Kg	95
18) Methylene Chloride	8.976	84	42739	0.73	ug/Kg	91
96) TPH-GRO (C6-C10)	13.747	TIC	278894m	1.25	ug/Kg	

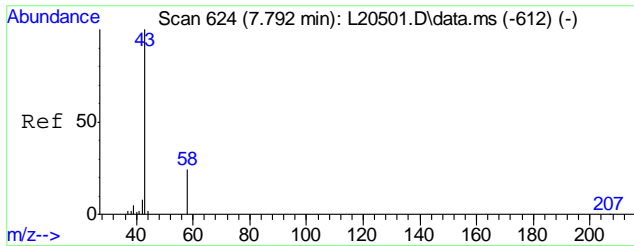
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22490.D  
Acq On : 2 Feb 2013 9:28 pm  
Operator : XINGB  
Sample : C25941-13  
Misc : MS1656,VL712,5.02,,,,,1  
ALS Vial : 24 Sample Multiplier: 1

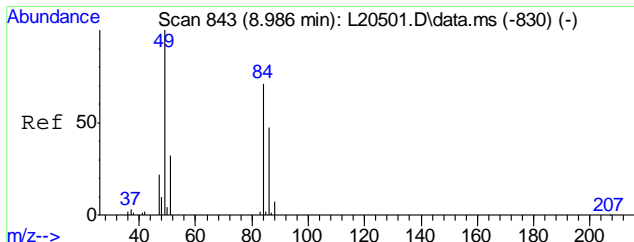
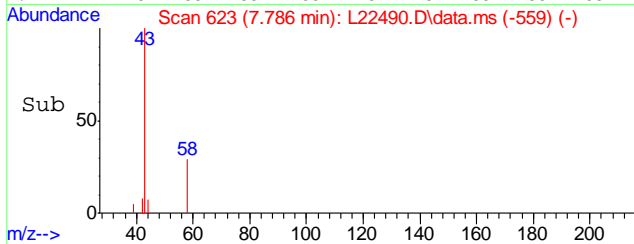
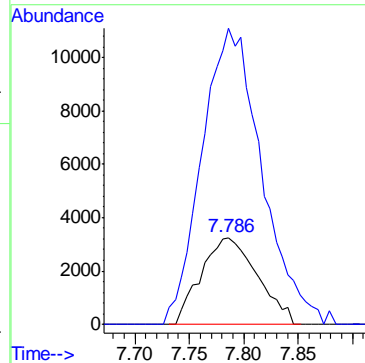
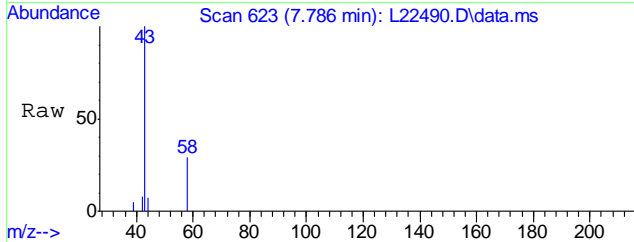
Quant Time: Feb 04 07:37:56 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





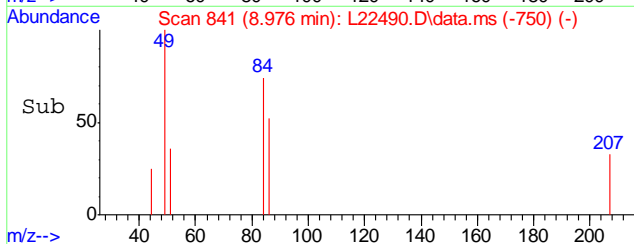
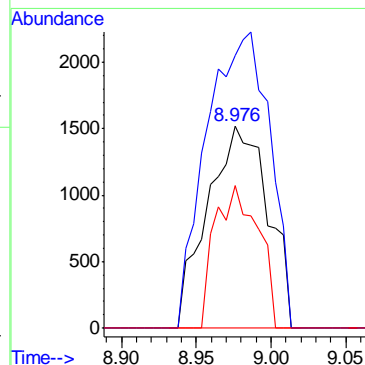
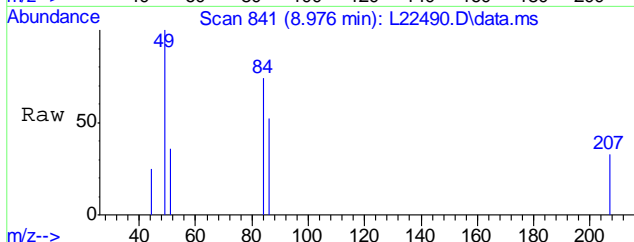
#10  
 Acetone  
 Concen: 21.67 ug/Kg  
 RT: 7.786 min Scan# 623  
 Delta R.T. -0.000 min  
 Lab File: L22490.D  
 Acq: 2 Feb 2013 9:28 pm

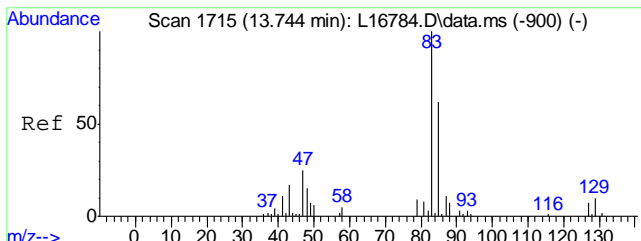
Tgt Ion	Resp	Lower	Upper
58	116492		
43	364.5	334.6	374.6



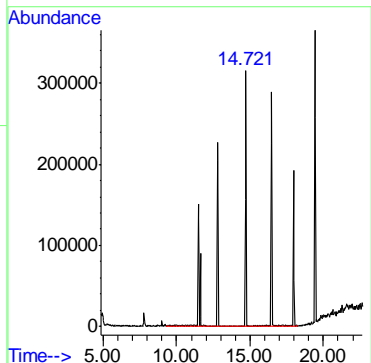
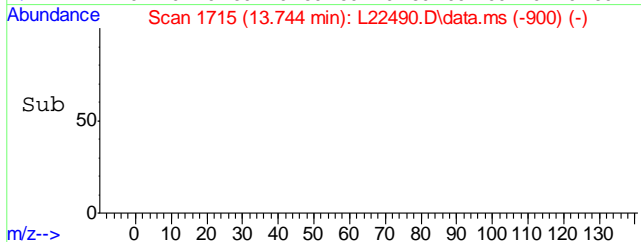
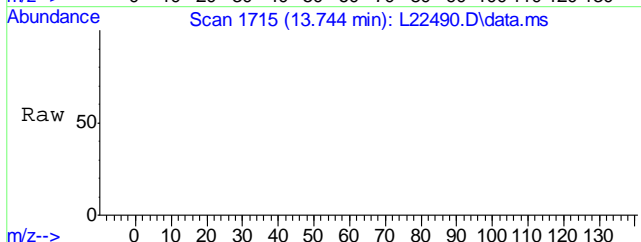
#18  
 Methylene Chloride  
 Concen: 0.73 ug/Kg  
 RT: 8.976 min Scan# 841  
 Delta R.T. -0.005 min  
 Lab File: L22490.D  
 Acq: 2 Feb 2013 9:28 pm

Tgt Ion	Resp	Lower	Upper
84	42739		
49	153.1	125.6	165.6
86	50.3	43.6	83.6





#96  
TPH-GRO (C6-C10)  
Concen: 1.25 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22490.D  
Acq: 2 Feb 2013 9:28 pm  
Tgt Ion:TIC Resp: 278894



6.1.13  
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22491.D  
Acq On : 2 Feb 2013 9:56 pm  
Operator : XINGB  
Sample : C25941-14  
Misc : MS1656,VL712,5.07,,,,,1  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 04 07:37:58 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1463295	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.801	114	2468258	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2160681	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1093743	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1093743	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	805483	20.68	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	103.40%
53) Toluene-d8	14.721	98	2835575	19.38	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.90%
71) 4-Bromofluorobenzene	17.962	95	1084150	19.17	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	95.85%
Target Compounds						
10) Acetone	7.786	58	97160	18.32	ug/Kg	91
18) Methylene Chloride	8.987	84	37409	0.65	ug/Kg	87
96) TPH-GRO (C6-C10)	13.747	TIC	-84670m	Below	Cal	

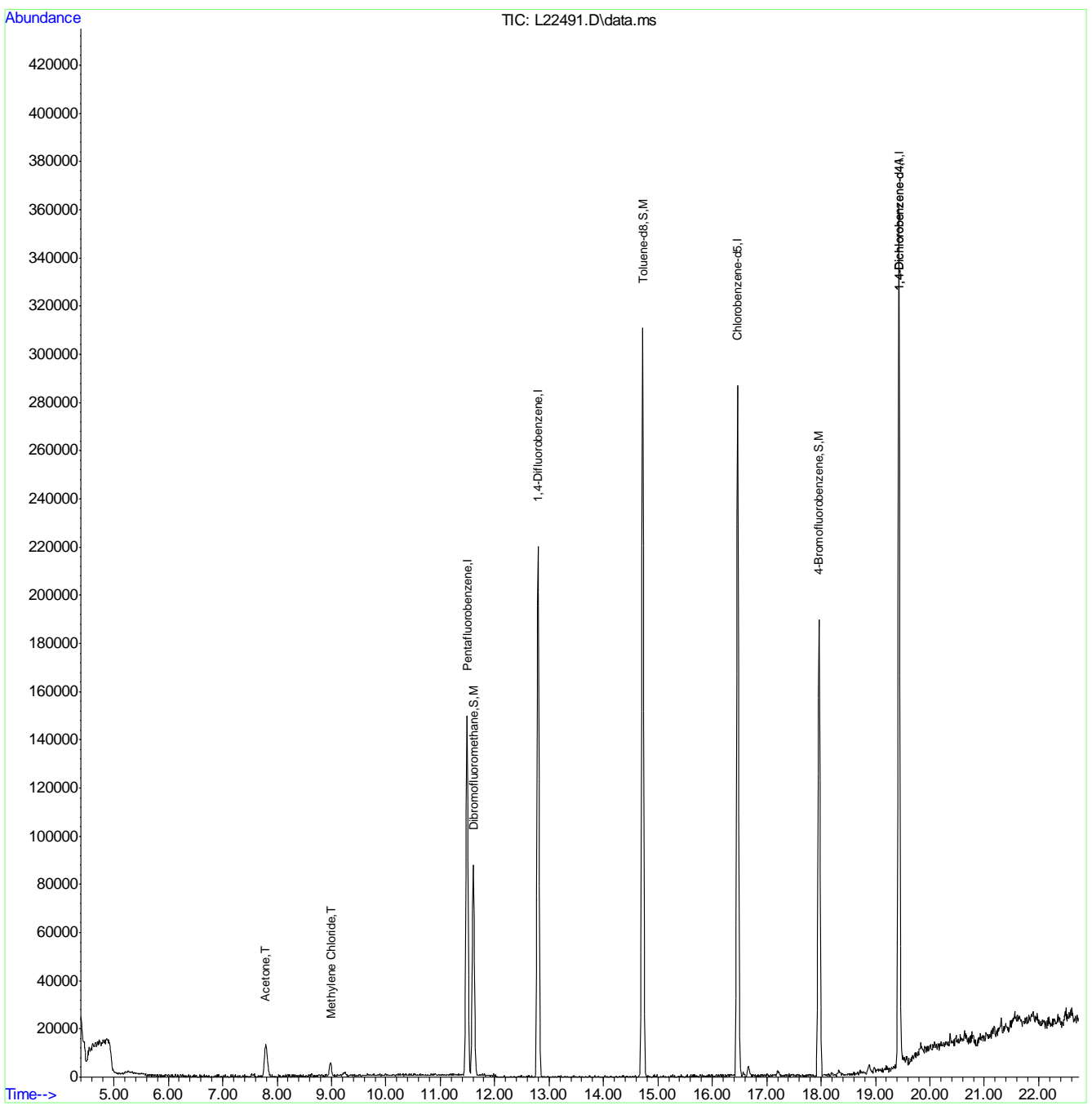
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.1.14  
6

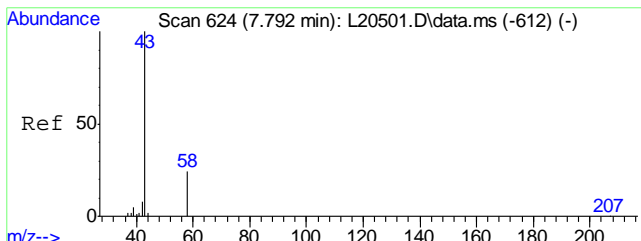
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
Data File : L22491.D  
Acq On : 2 Feb 2013 9:56 pm  
Operator : XINGB  
Sample : C25941-14  
Misc : MS1656,VL712,5.07,,,,,1  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 04 07:37:58 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration



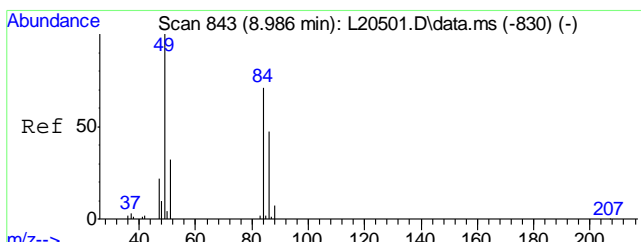
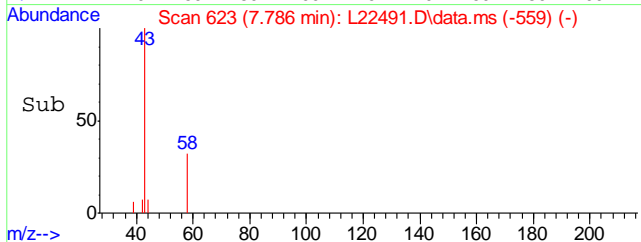
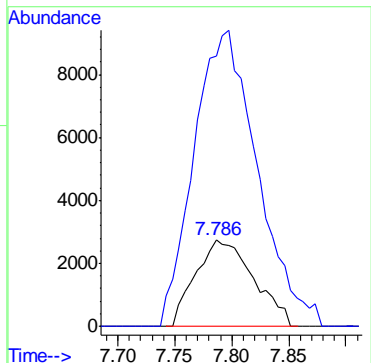
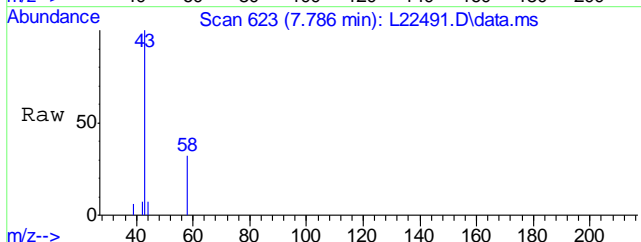




#10  
 Acetone  
 Concen: 18.32 ug/Kg  
 RT: 7.786 min Scan# 623  
 Delta R.T. 0.000 min  
 Lab File: L22491.D  
 Acq: 2 Feb 2013 9:56 pm

Tgt Ion: 58 Resp: 97160

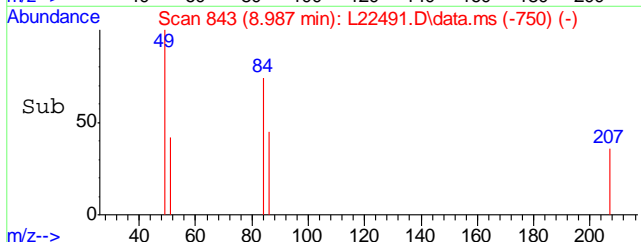
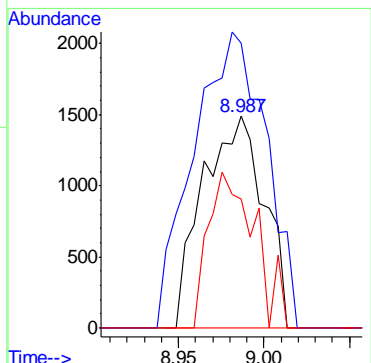
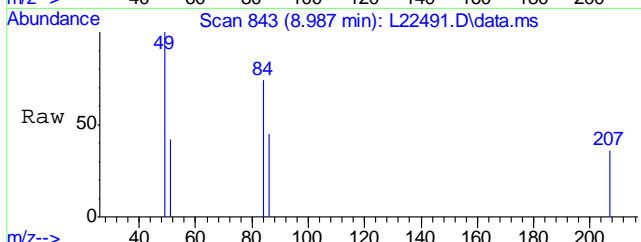
Ion	Ratio	Lower	Upper
58	100		
43	373.4	334.6	374.6



#18  
 Methylene Chloride  
 Concen: 0.65 ug/Kg  
 RT: 8.987 min Scan# 843  
 Delta R.T. 0.005 min  
 Lab File: L22491.D  
 Acq: 2 Feb 2013 9:56 pm

Tgt Ion: 84 Resp: 37409

Ion	Ratio	Lower	Upper
84	100		
49	163.7	125.6	165.6
86	56.0	43.6	83.6



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
 Data File : L22542.D  
 Acq On : 5 Feb 2013 12:43 pm  
 Operator : XINGB  
 Sample : C25941-15  
 Misc : MS1656,VL714,5.02,,,,,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 06 09:53:32 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

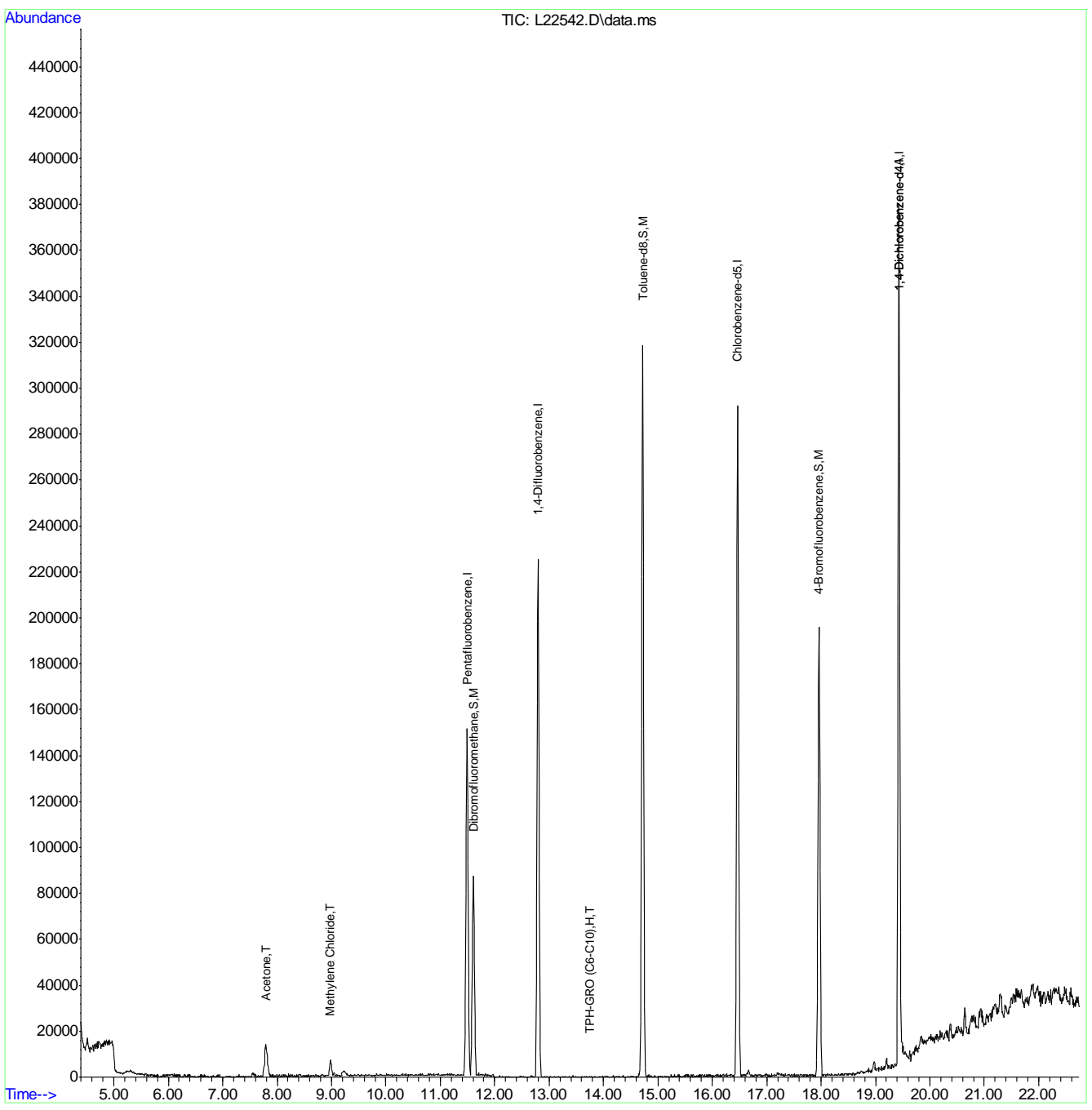
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1466195	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.801	114	2498393	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2212893	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1153021	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1153021	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	820741	21.03	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	105.15%
53) Toluene-d8	14.721	98	2879181	19.21	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.05%
71) 4-Bromofluorobenzene	17.957	95	1123311	19.40	ug/Kg	-0.01
Spiked Amount	20.000	Range	70 - 130	Recovery	=	97.00%
Target Compounds						
10) Acetone	7.797	58	100928	18.99	ug/Kg	100
18) Methylene Chloride	8.981	84	40739	0.70	ug/Kg	85
96) TPH-GRO (C6-C10)	13.747	TIC	295284m	1.27	ug/Kg	

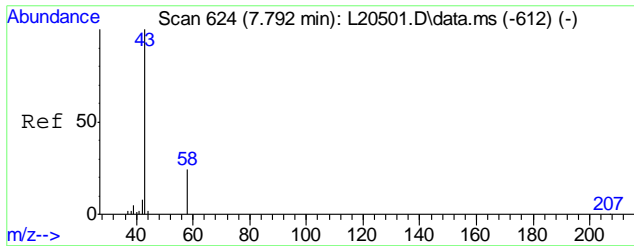
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
Data File : L22542.D  
Acq On : 5 Feb 2013 12:43 pm  
Operator : XINGB  
Sample : C25941-15  
Misc : MS1656,VL714,5.02,,,,,1  
ALS Vial : 8 Sample Multiplier: 1

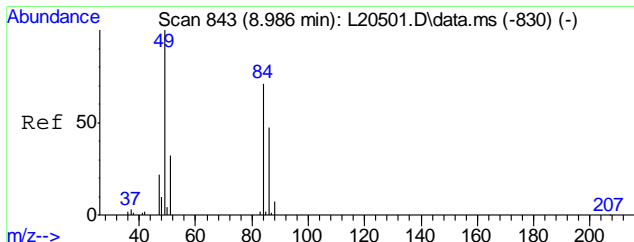
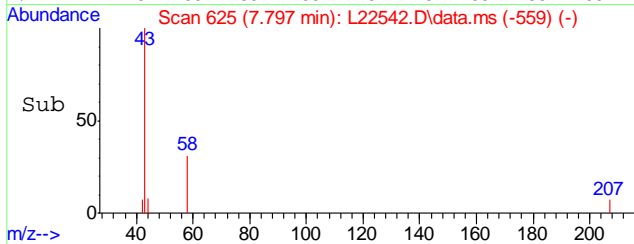
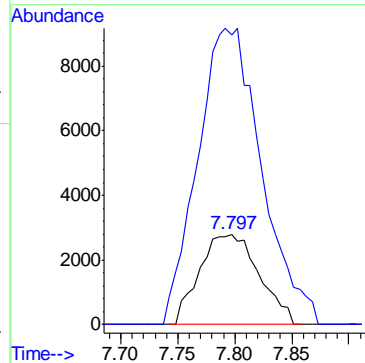
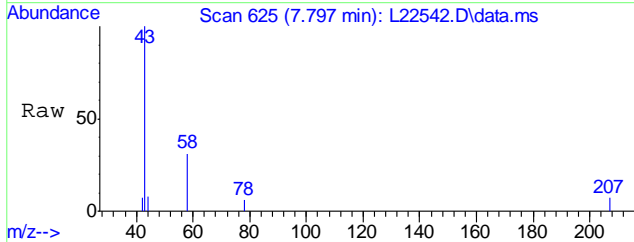
Quant Time: Feb 06 09:53:32 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





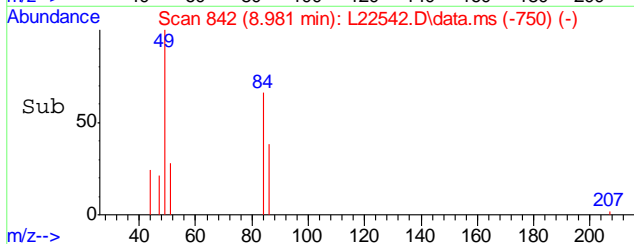
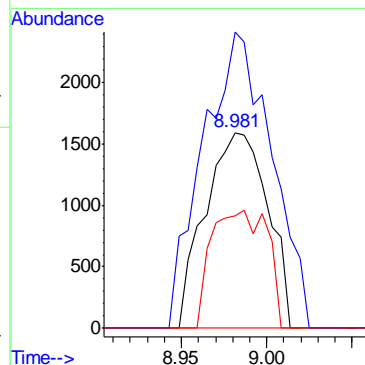
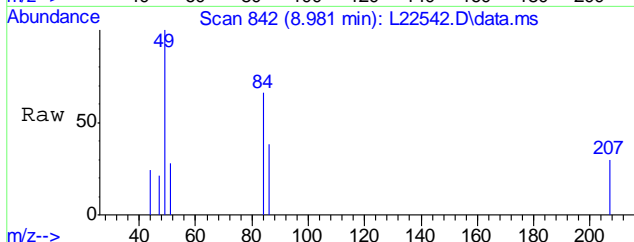
#10  
Acetone  
Concen: 18.99 ug/Kg  
RT: 7.797 min Scan# 625  
Delta R.T. 0.011 min  
Lab File: L22542.D  
Acq: 5 Feb 2013 12:43 pm

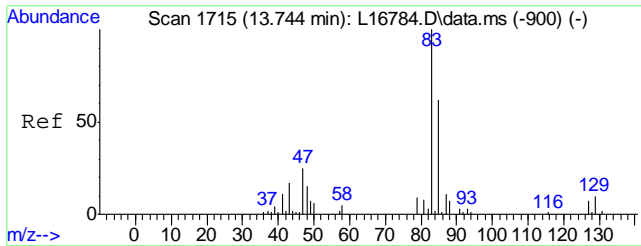
Tgt Ion: 58 Resp: 100928  
Ion Ratio Lower Upper  
58 100  
43 354.2 334.6 374.6



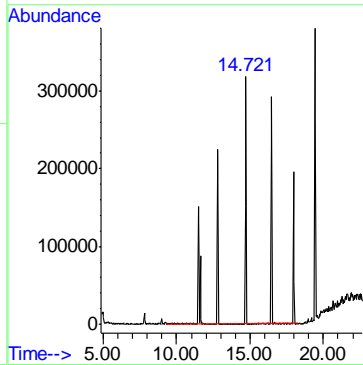
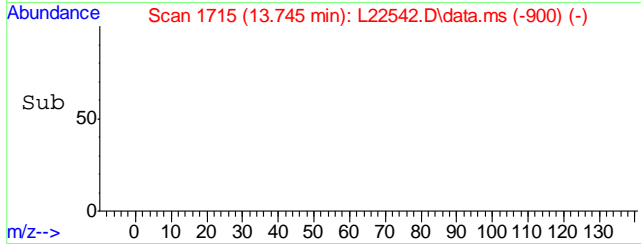
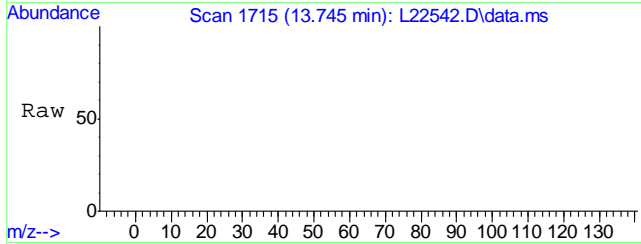
#18  
Methylene Chloride  
Concen: 0.70 ug/Kg  
RT: 8.981 min Scan# 842  
Delta R.T. 0.000 min  
Lab File: L22542.D  
Acq: 5 Feb 2013 12:43 pm

Tgt Ion: 84 Resp: 40739  
Ion Ratio Lower Upper  
84 100  
49 165.5 125.6 165.6  
86 54.0 43.6 83.6





#96  
TPH-GRO (C6-C10)  
Concen: 1.27 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22542.D  
Acq: 5 Feb 2013 12:43 pm  
Tgt Ion:TIC Resp: 295284



6.1.15  
6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
 Data File : L22543.D  
 Acq On : 5 Feb 2013 1:12 pm  
 Operator : XINGB  
 Sample : C25941-16  
 Misc : MS1656,VL714,5.13,,,,,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 06 09:53:34 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

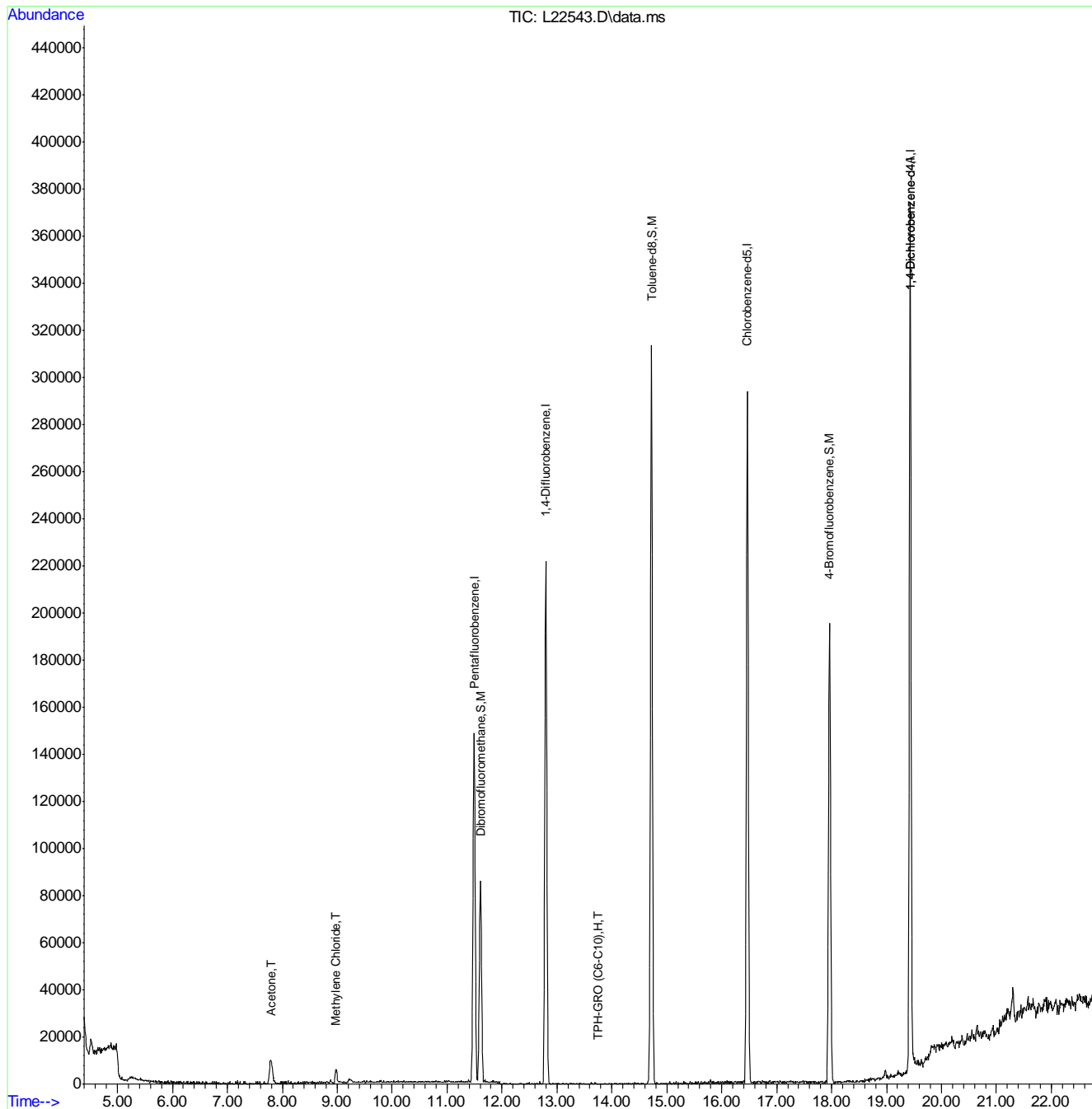
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1430797	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.800	114	2464269	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2201769	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1152597	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1152597	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	797108	20.93	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	104.65%
53) Toluene-d8	14.721	98	2845161	19.08	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	95.40%
71) 4-Bromofluorobenzene	17.962	95	1119616	19.43	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	97.15%
Target Compounds						
10) Acetone	7.797	58	70175	13.53	ug/Kg	93
18) Methylene Chloride	8.976	84	36328	0.64	ug/Kg#	86
96) TPH-GRO (C6-C10)	13.747	TIC	205554m	0.88	ug/Kg	

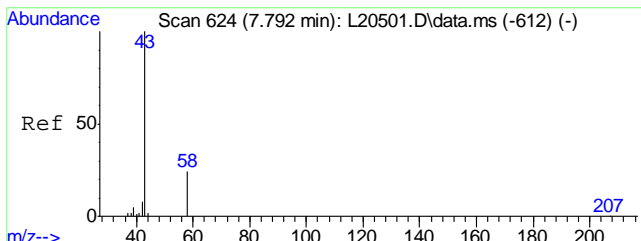
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
Data File : L22543.D  
Acq On : 5 Feb 2013 1:12 pm  
Operator : XINGB  
Sample : C25941-16  
Misc : MS1656,VL714,5.13,,,,,1  
ALS Vial : 9 Sample Multiplier: 1

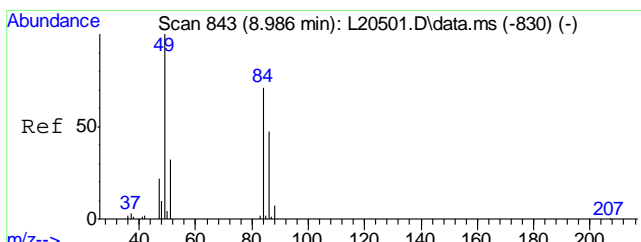
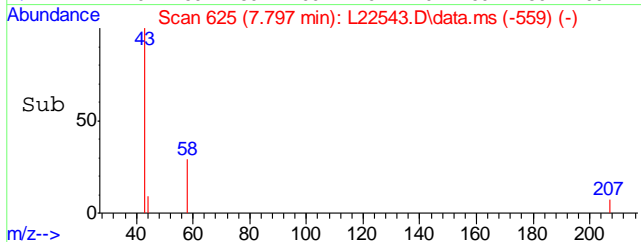
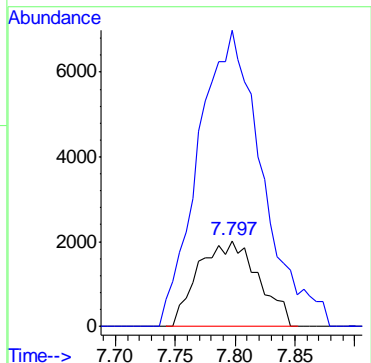
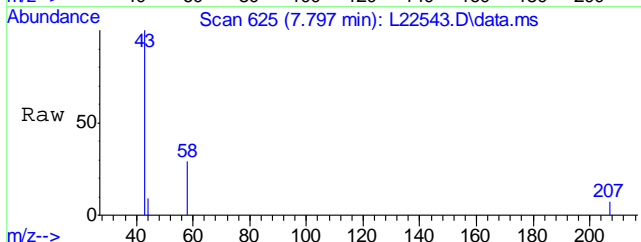
Quant Time: Feb 06 09:53:34 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





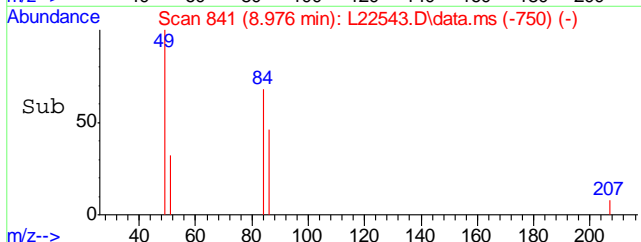
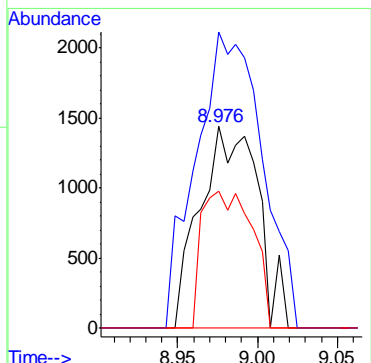
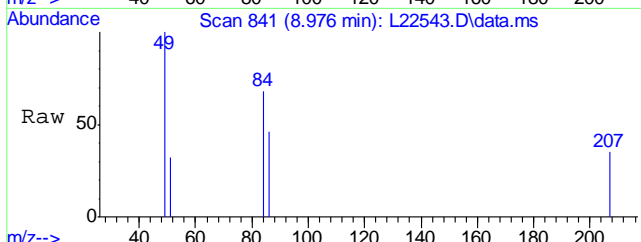
#10  
Acetone  
Concen: 13.53 ug/Kg  
RT: 7.797 min Scan# 625  
Delta R.T. 0.011 min  
Lab File: L22543.D  
Acq: 5 Feb 2013 1:12 pm

Tgt Ion	Resp	Lower	Upper
58	70175		
43	370.2	334.6	374.6

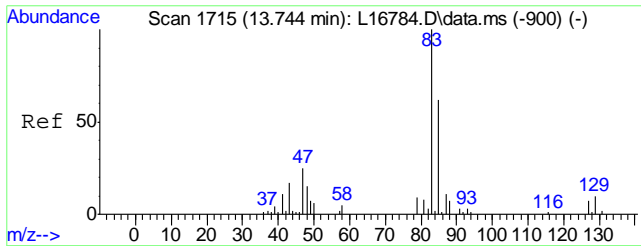


#18  
Methylene Chloride  
Concen: 0.64 ug/Kg  
RT: 8.976 min Scan# 841  
Delta R.T. -0.006 min  
Lab File: L22543.D  
Acq: 5 Feb 2013 1:12 pm

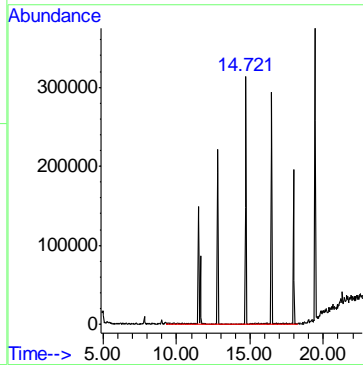
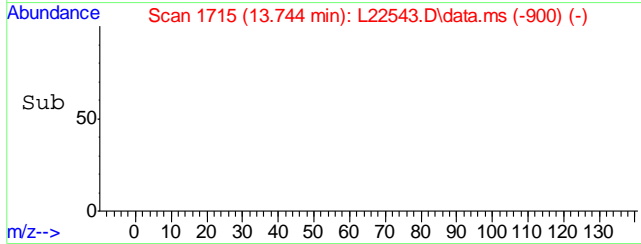
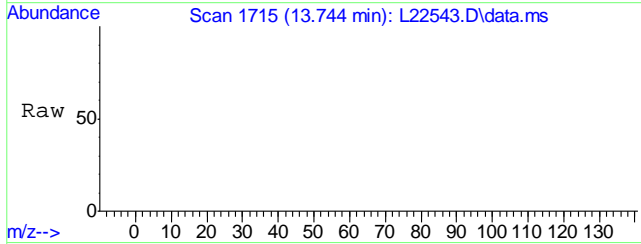
Tgt Ion	Resp	Lower	Upper
84	36328		
49	168.2	125.6	165.6#
86	59.7	43.6	83.6







#96  
TPH-GRO (C6-C10)  
Concen: 0.88 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22543.D  
Acq: 5 Feb 2013 1:12 pm  
Tgt Ion:TIC Resp: 205554



6.1.16  
6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
 Data File : L22544.D  
 Acq On : 5 Feb 2013 1:41 pm  
 Operator : XINGB  
 Sample : C25941-17  
 Misc : MS1656,VL714,5.04,,,,,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 06 09:53:36 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

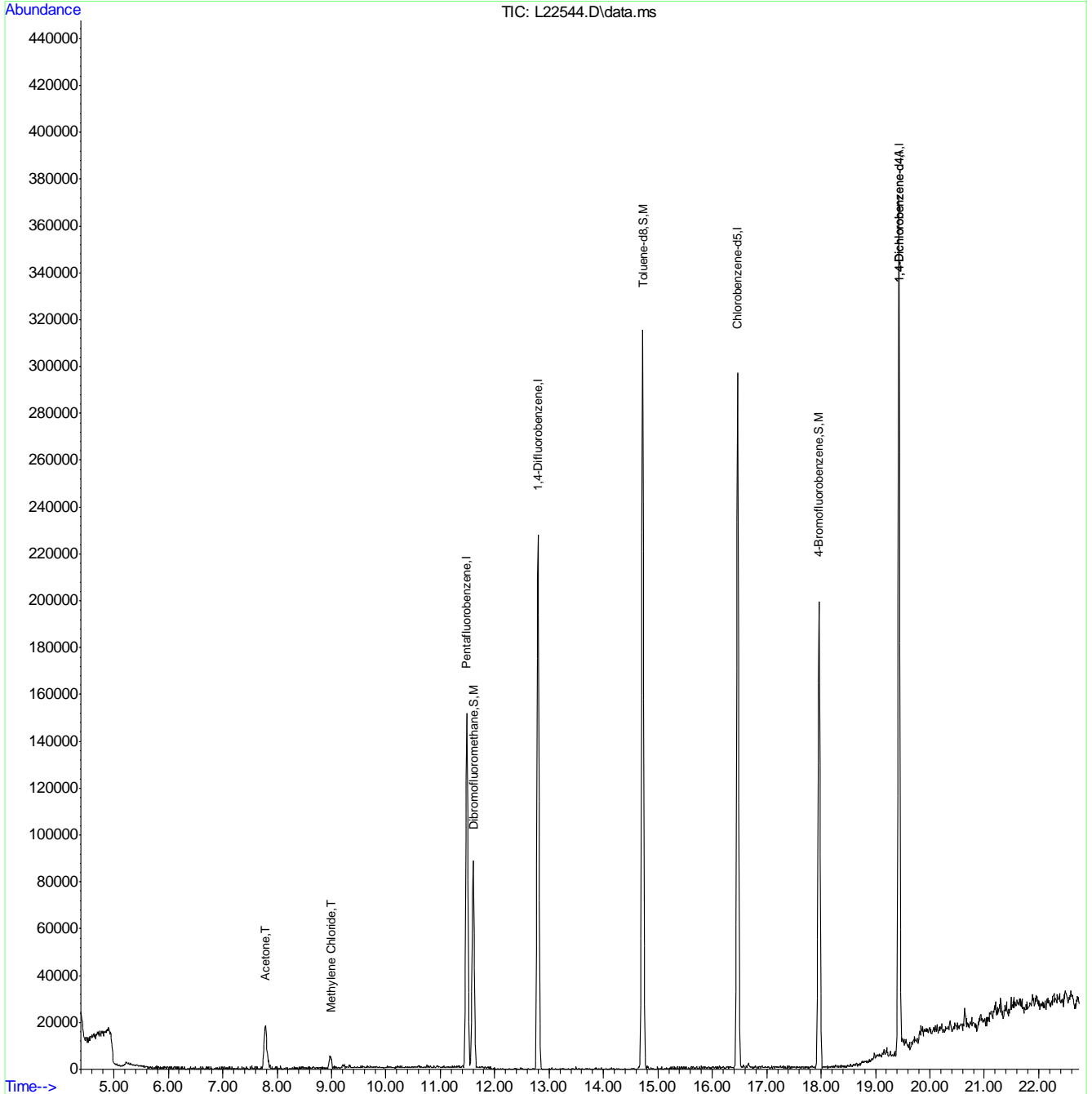
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.486	168	1470153	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.795	114	2507732	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2225446	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1144785	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1144785	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	814185	20.81	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	104.05%
53) Toluene-d8	14.721	98	2905387	19.28	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.40%
71) 4-Bromofluorobenzene	17.962	95	1123201	19.29	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.45%
Target Compounds						
10) Acetone	7.786	58	135763	25.47	ug/Kg	94
18) Methylene Chloride	8.987	84	42307	0.73	ug/Kg	95
96) TPH-GRO (C6-C10)	13.747	TIC	-20214m	Below	Cal	

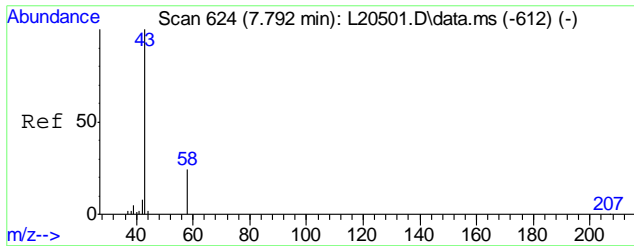
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
Data File : L22544.D  
Acq On : 5 Feb 2013 1:41 pm  
Operator : XINGB  
Sample : C25941-17  
Misc : MS1656,VL714,5.04,,,,,1  
ALS Vial : 10 Sample Multiplier: 1

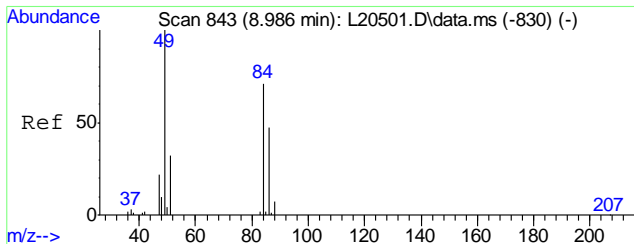
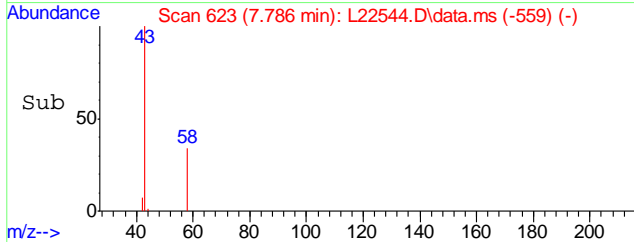
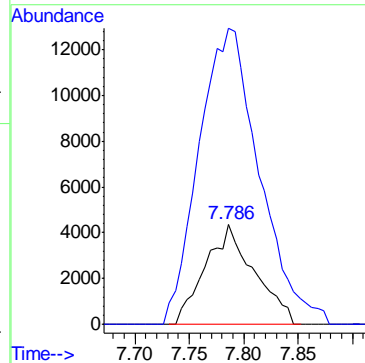
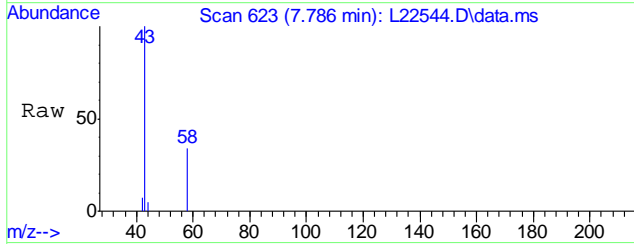
Quant Time: Feb 06 09:53:36 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





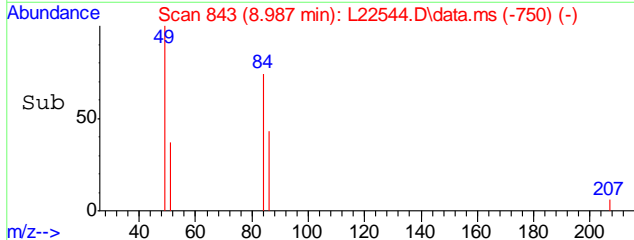
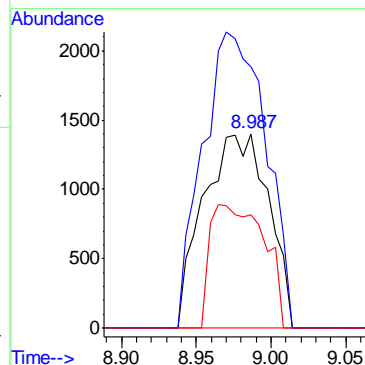
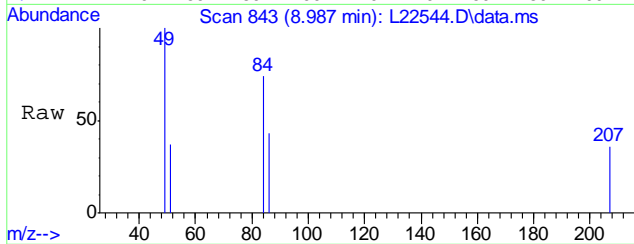
#10  
Acetone  
Concen: 25.47 ug/Kg  
RT: 7.786 min Scan# 623  
Delta R.T. 0.000 min  
Lab File: L22544.D  
Acq: 5 Feb 2013 1:41 pm

Tgt Ion	Resp	Lower	Upper
58	135763		
43	367.8	334.6	374.6



#18  
Methylene Chloride  
Concen: 0.73 ug/Kg  
RT: 8.987 min Scan# 843  
Delta R.T. 0.005 min  
Lab File: L22544.D  
Acq: 5 Feb 2013 1:41 pm

Tgt Ion	Resp	Lower	Upper
84	42307		
49	148.0	125.6	165.6
86	53.0	43.6	83.6



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
 Data File : L22545.D  
 Acq On : 5 Feb 2013 2:10 pm  
 Operator : XINGB  
 Sample : C25941-18  
 Misc : MS1656,VL714,5.12,,,,,1  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 06 09:53:39 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

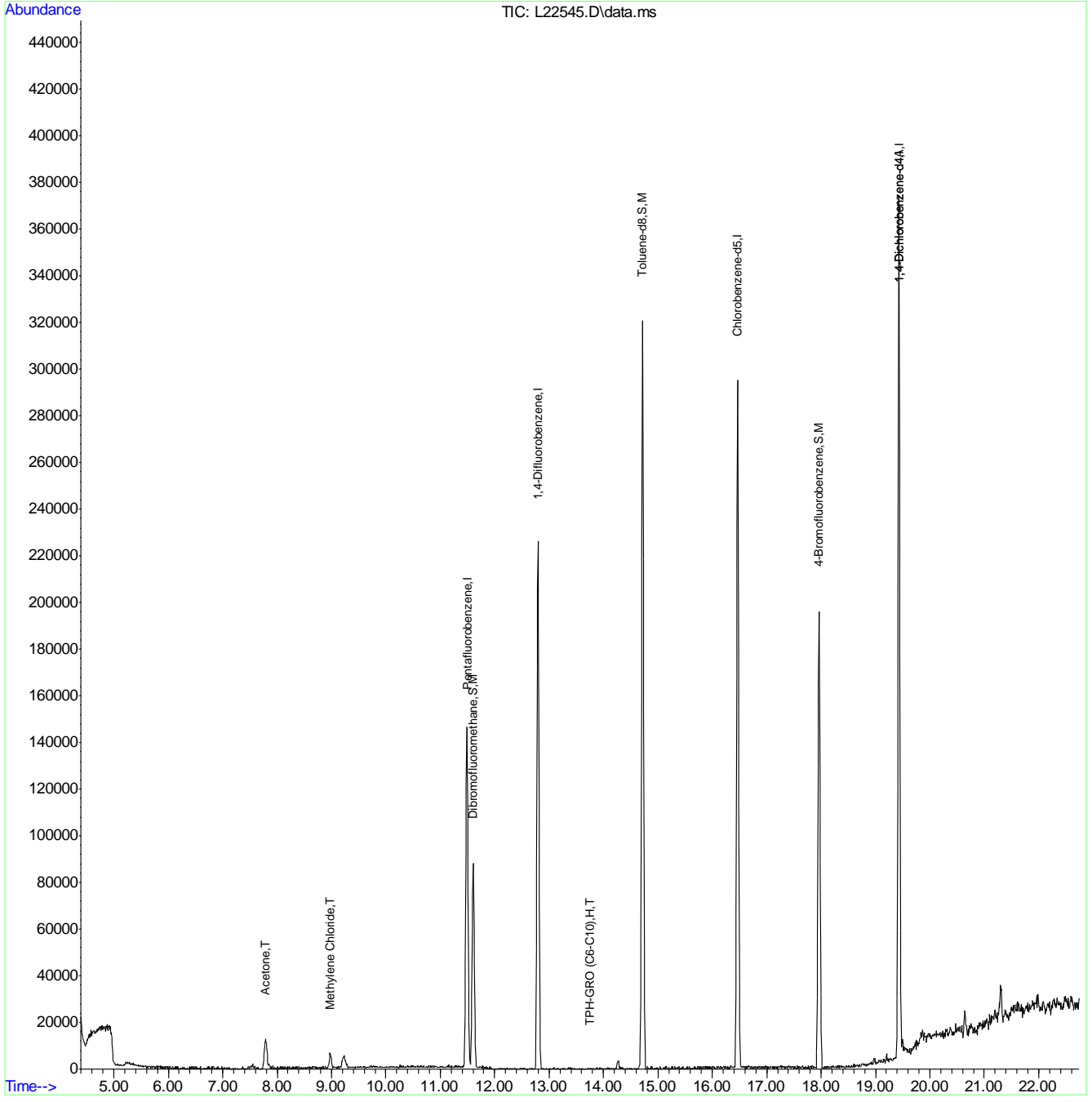
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1433856	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.800	114	2496018	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2206784	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1124668	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1124668	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.605	111	815060	21.36	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	106.80%
53) Toluene-d8	14.716	98	2895164	19.37	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.85%
71) 4-Bromofluorobenzene	17.962	95	1126077	19.50	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	97.50%
Target Compounds						
10) Acetone	7.786	58	86358	16.61	ug/Kg#	88
18) Methylene Chloride	8.981	84	42621	0.75	ug/Kg	92
96) TPH-GRO (C6-C10)	13.747	TIC	255405m	1.12	ug/Kg	

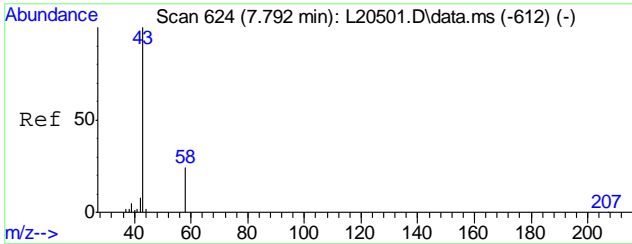
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
Data File : L22545.D  
Acq On : 5 Feb 2013 2:10 pm  
Operator : XINGB  
Sample : C25941-18  
Misc : MS1656,VL714,5.12,,,,,1  
ALS Vial : 11 Sample Multiplier: 1

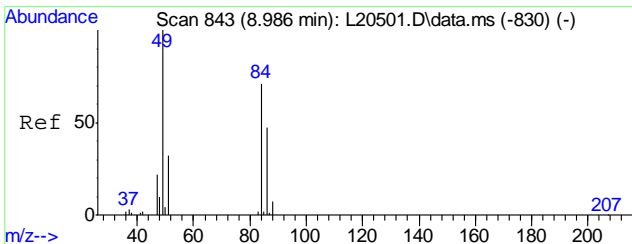
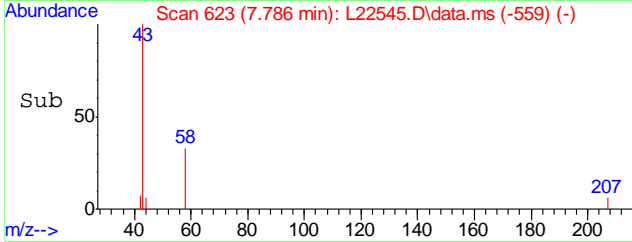
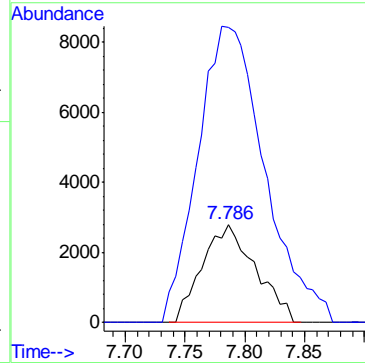
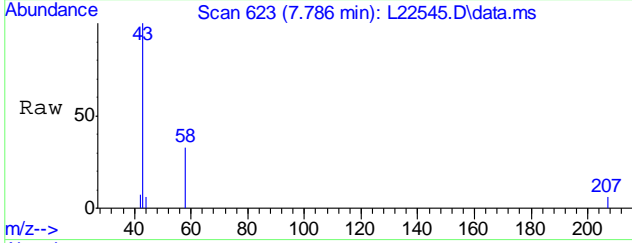
Quant Time: Feb 06 09:53:39 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





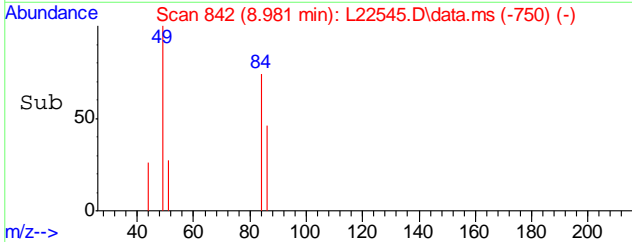
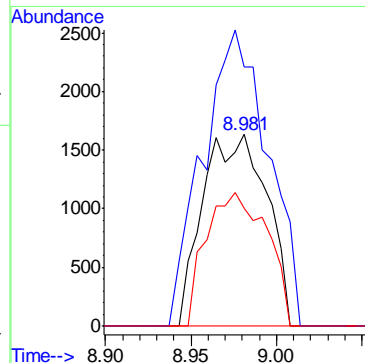
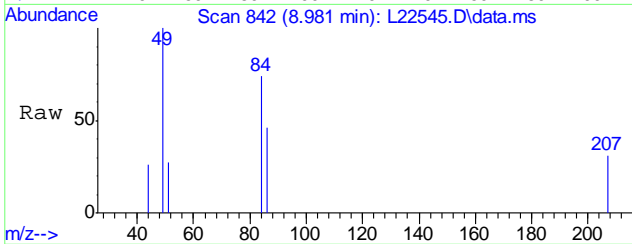
#10  
 Acetone  
 Concen: 16.61 ug/Kg  
 RT: 7.786 min Scan# 623  
 Delta R.T. -0.000 min  
 Lab File: L22545.D  
 Acq: 5 Feb 2013 2:10 pm

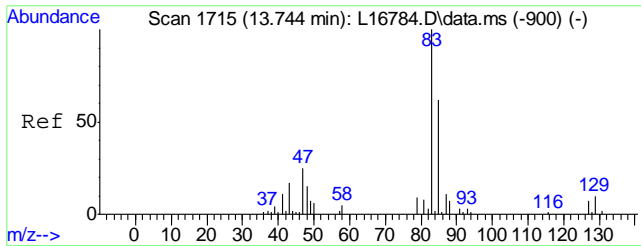
Tgt Ion: 58 Resp: 86358  
 Ion Ratio Lower Upper  
 58 100  
 43 380.2 334.6 374.6#



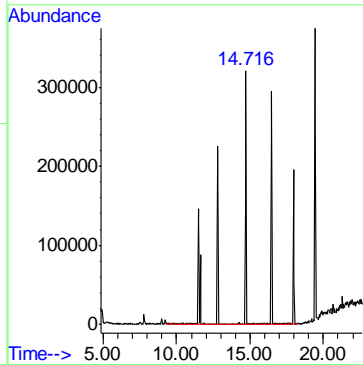
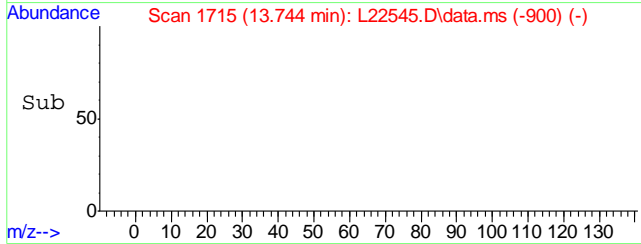
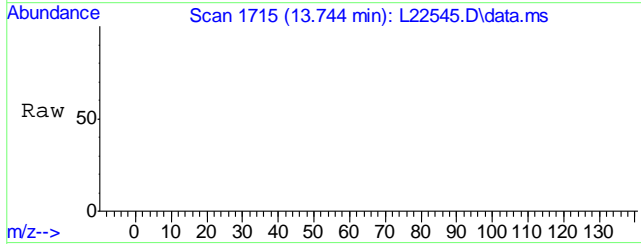
#18  
 Methylene Chloride  
 Concen: 0.75 ug/Kg  
 RT: 8.981 min Scan# 842  
 Delta R.T. -0.000 min  
 Lab File: L22545.D  
 Acq: 5 Feb 2013 2:10 pm

Tgt Ion: 84 Resp: 42621  
 Ion Ratio Lower Upper  
 84 100  
 49 157.8 125.6 165.6  
 86 66.3 43.6 83.6





#96  
TPH-GRO (C6-C10)  
Concen: 1.12 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22545.D  
Acq: 5 Feb 2013 2:10 pm  
Tgt Ion:TIC Resp: 255405



6.1.18  
6



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130204\  
 Data File : L22520.D  
 Acq On : 4 Feb 2013 9:52 pm  
 Operator : XINGB  
 Sample : C25941-19  
 Misc : MS1656,VL713,5.05,,,,,1  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 05 08:10:09 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

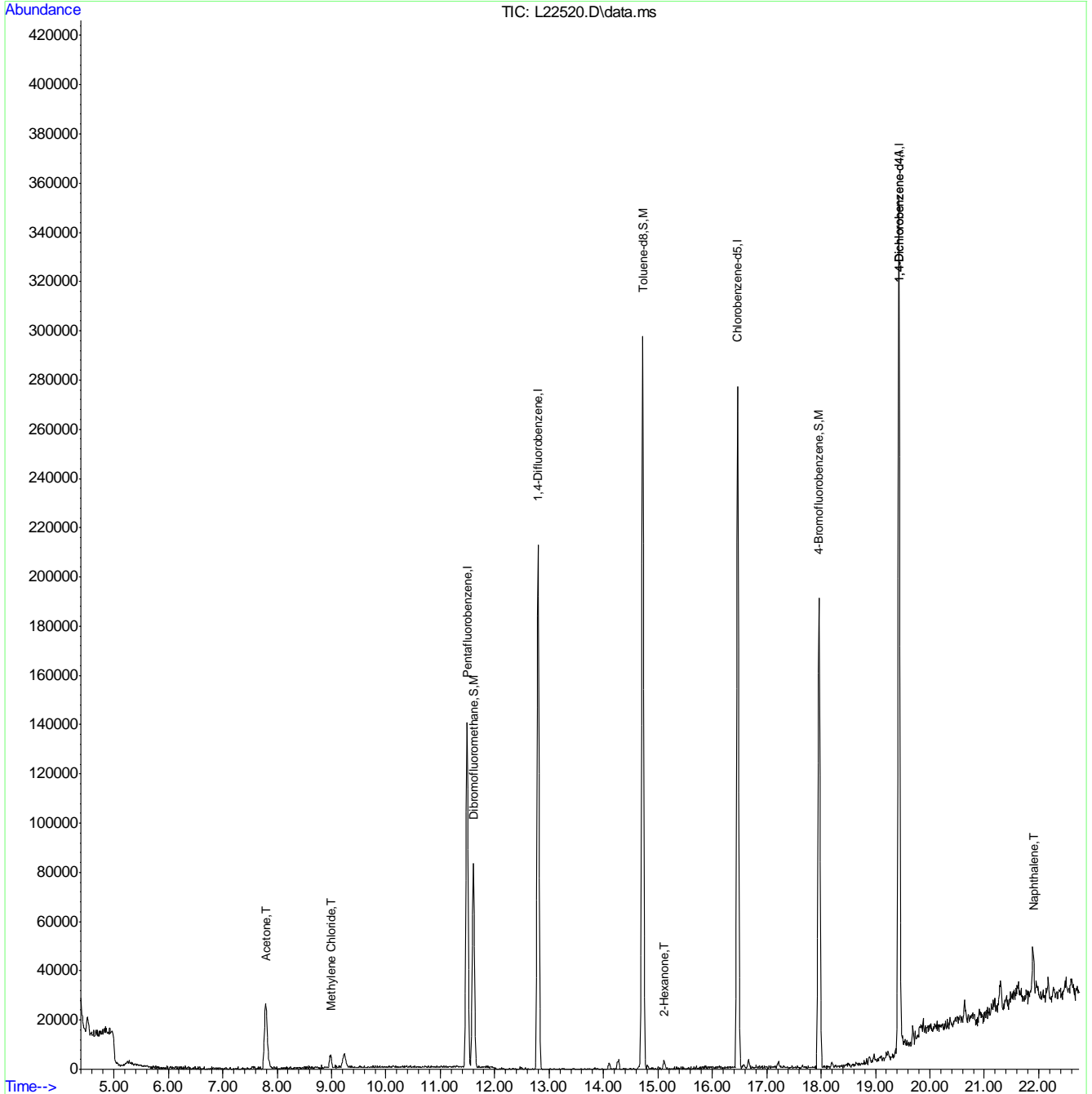
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1381530	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.801	114	2356128	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2121549	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1104415	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1104415	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	780092	21.22	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery	=	106.10%	
53) Toluene-d8	14.721	98	2723920	18.96	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery	=	94.80%	
71) 4-Bromofluorobenzene	17.962	95	1080319	19.46	ug/Kg	0.00
Spiked Amount	20.000	Range 70 - 130	Recovery	=	97.30%	
Target Compounds						
10) Acetone	7.792	58	196378	39.21	ug/Kg	98
18) Methylene Chloride	8.987	84	36510	0.67	ug/Kg	94
57) 2-Hexanone	15.114	43	50550	1.07	ug/Kg#	77
93) Naphthalene	21.902	128	214209	1.17	ug/Kg	100
96) TPH-GRO (C6-C10)	13.747	TIC	-5533m	Below	Cal	

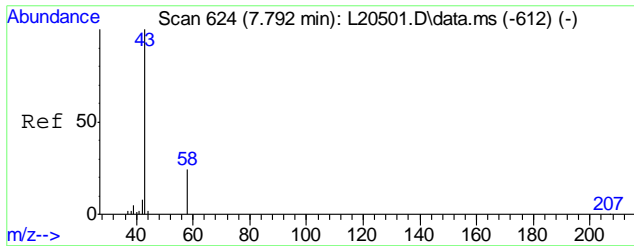
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130204\  
Data File : L22520.D  
Acq On : 4 Feb 2013 9:52 pm  
Operator : XINGB  
Sample : C25941-19  
Misc : MS1656,VL713,5.05,,,,,1  
ALS Vial : 13 Sample Multiplier: 1

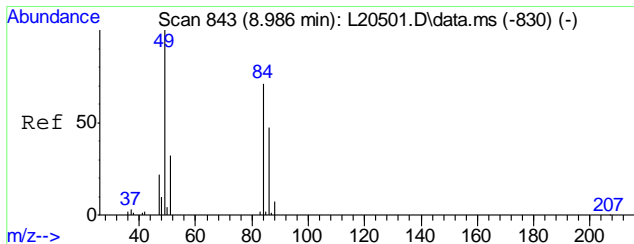
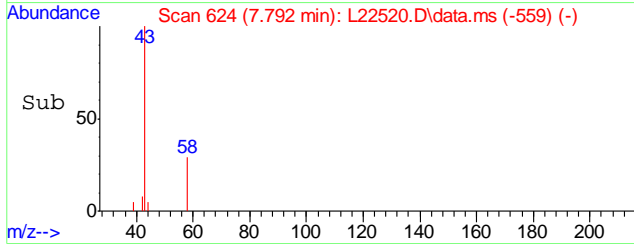
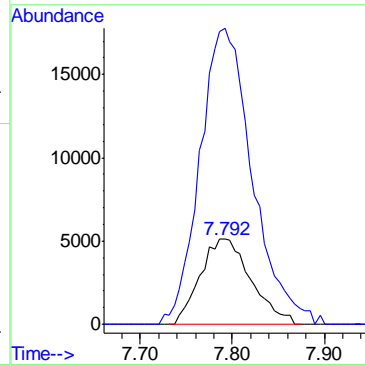
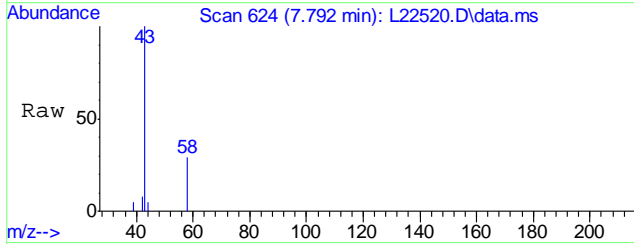
Quant Time: Feb 05 08:10:09 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





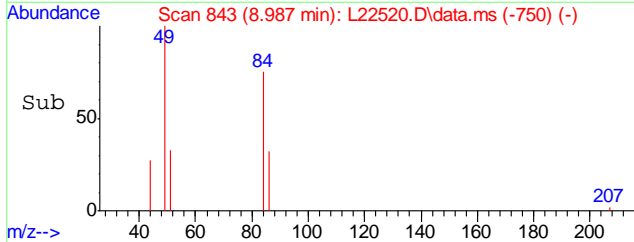
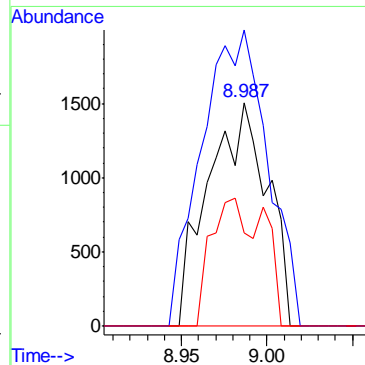
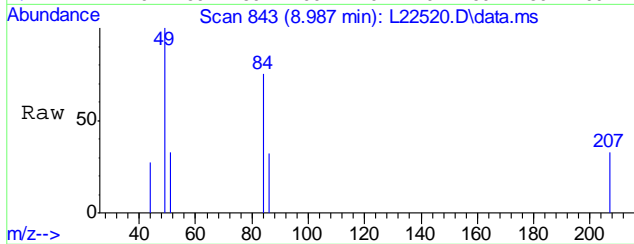
#10  
Acetone  
Concen: 39.21 ug/Kg  
RT: 7.792 min Scan# 624  
Delta R.T. 0.005 min  
Lab File: L22520.D  
Acq: 4 Feb 2013 9:52 pm

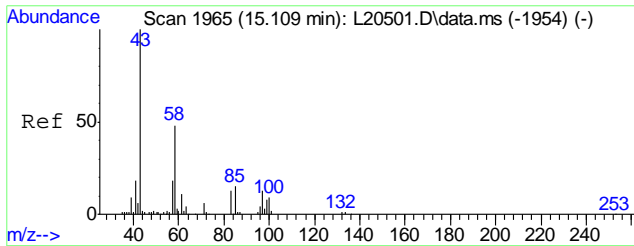
Tgt Ion	Resp	Lower	Upper
58	196378		
43	358.9	334.6	374.6



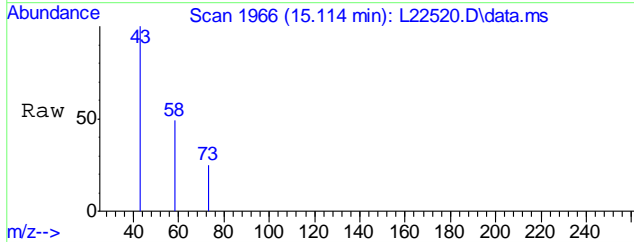
#18  
Methylene Chloride  
Concen: 0.67 ug/Kg  
RT: 8.987 min Scan# 843  
Delta R.T. 0.005 min  
Lab File: L22520.D  
Acq: 4 Feb 2013 9:52 pm

Tgt Ion	Resp	Lower	Upper
84	36510		
49	146.8	125.6	165.6
86	50.2	43.6	83.6

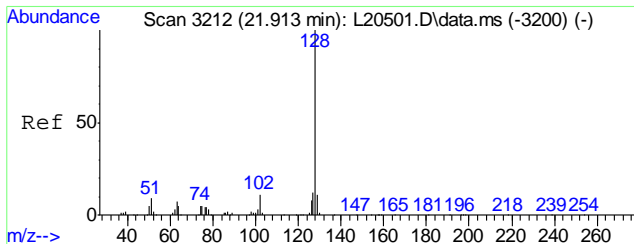
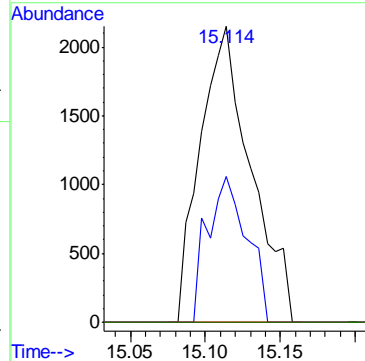
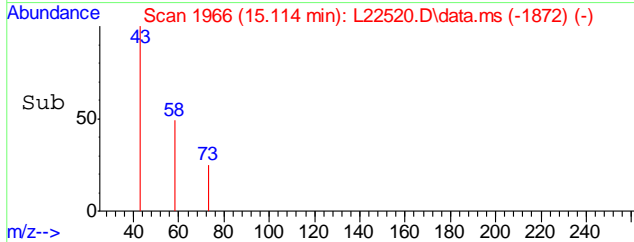




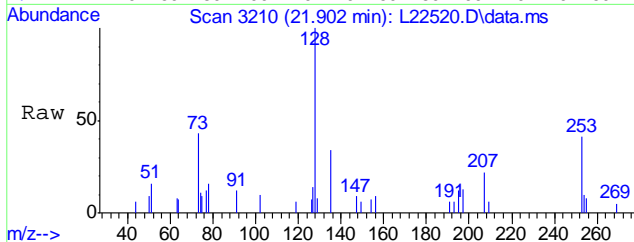
#57  
2-Hexanone  
Concen: 1.07 ug/Kg  
RT: 15.114 min Scan# 1966  
Delta R.T. 0.011 min  
Lab File: L22520.D  
Acq: 4 Feb 2013 9:52 pm



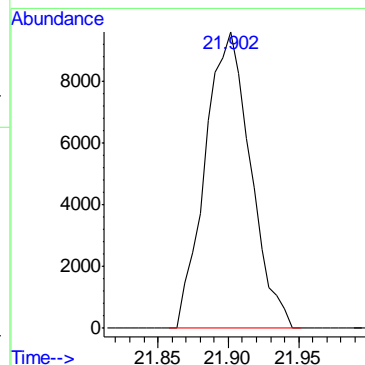
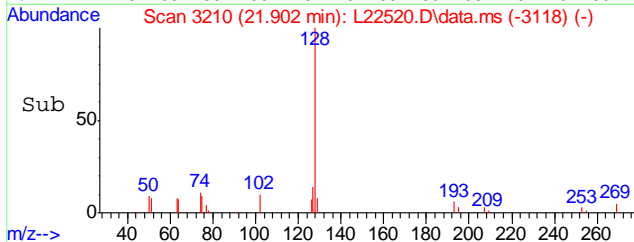
Tgt Ion	Resp	Lower	Upper
43	100		
58	38.3	30.1	70.1
57	0.0	0.0	36.3
100	0.0	0.0	29.0



#93  
Naphthalene  
Concen: 1.17 ug/Kg  
RT: 21.902 min Scan# 3210  
Delta R.T. -0.000 min  
Lab File: L22520.D  
Acq: 4 Feb 2013 9:52 pm



Tgt Ion: 128 Resp: 214209



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130204\  
Data File : L22517.D  
Acq On : 4 Feb 2013 8:26 pm  
Operator : XINGB  
Sample : C25941-20  
Misc : MS1656,VL713,5.02,,,,,1  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 05 08:32:13 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Pentafluorobenzene	11.491	168	1346298	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.801	114	2295791	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2064238	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1064920	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1064920	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.611	111	759209	21.19	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	105.95%
53) Toluene-d8	14.721	98	2682707	19.19	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	95.95%
71) 4-Bromofluorobenzene	17.962	95	1069139	19.79	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	98.95%
Target Compounds						
10) Acetone	7.781	58	53072m	10.87	ug/Kg	
18) Methylene Chloride	8.976	84	27425	0.51	ug/Kg#	65
96) TPH-GRO (C6-C10)	13.747	TIC	540335m	2.51	ug/Kg	
-----						

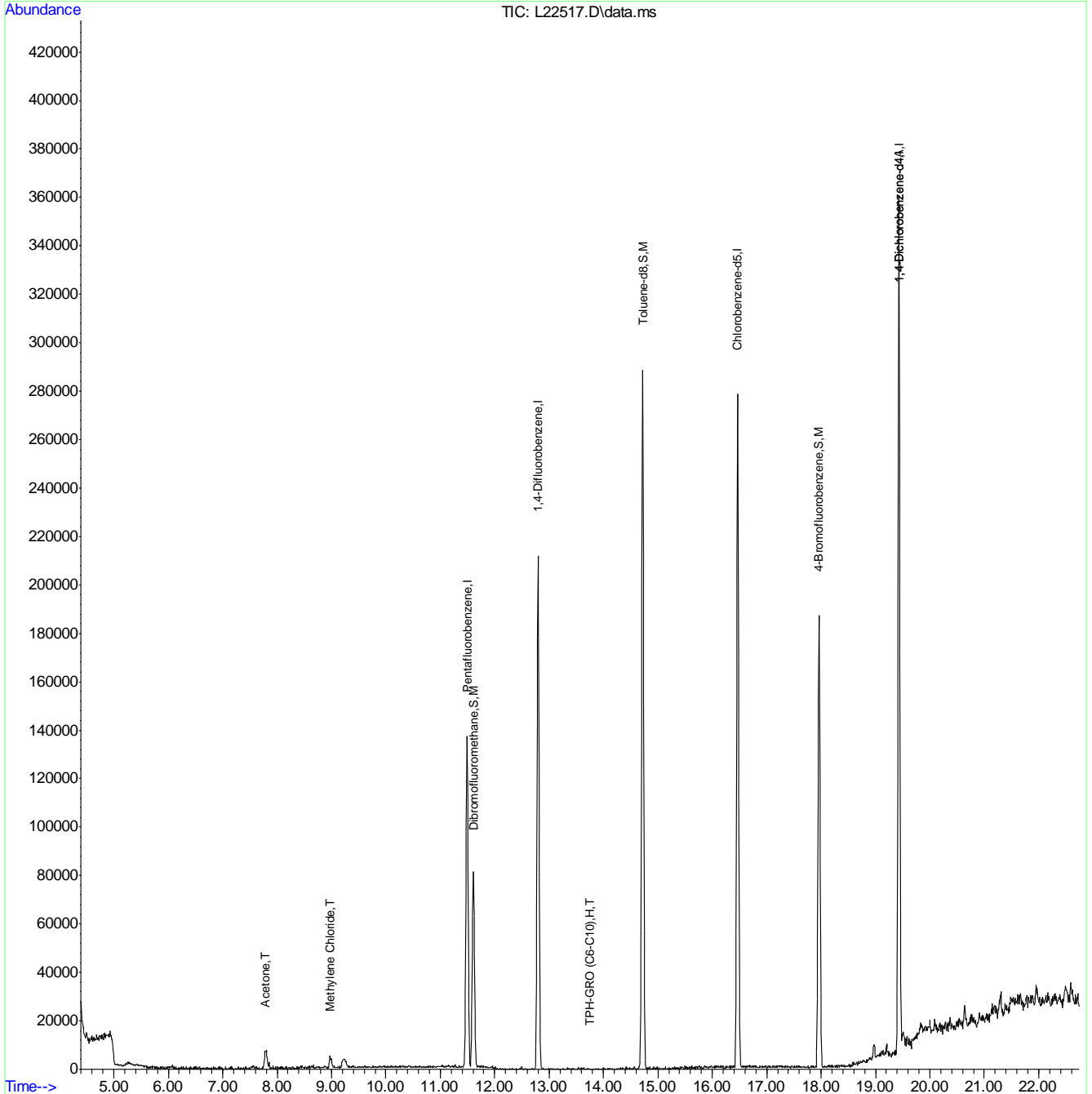
(#) = qualifier out of range (m) = manual integration (+) = signals summed

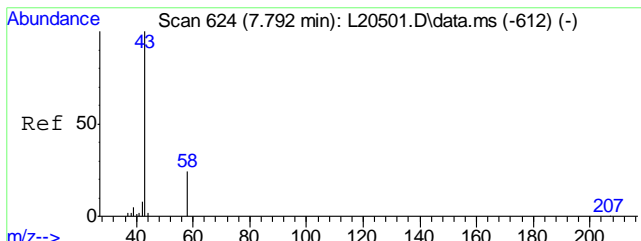
6.1.20  
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130204\  
Data File : L22517.D  
Acq On : 4 Feb 2013 8:26 pm  
Operator : XINGB  
Sample : C25941-20  
Misc : MS1656,VL713,5.02,,,,,1  
ALS Vial : 10 Sample Multiplier: 1

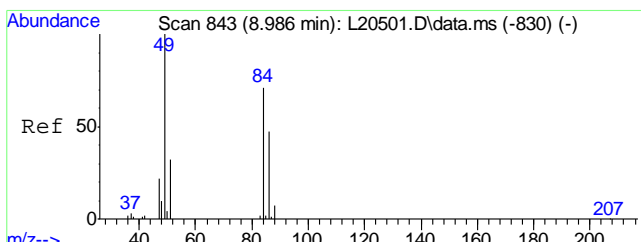
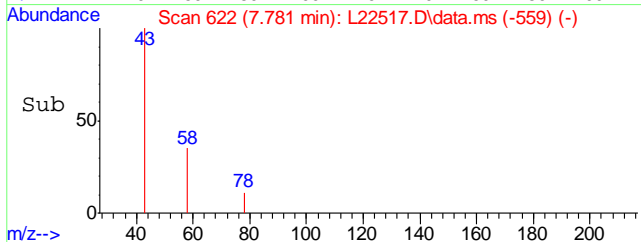
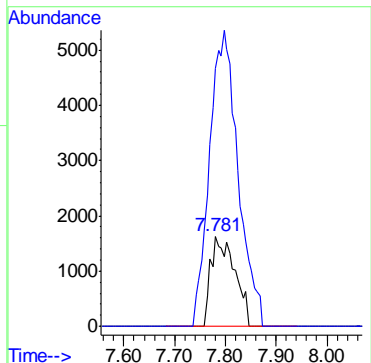
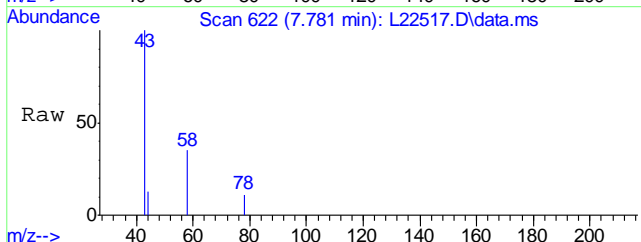
Quant Time: Feb 05 08:32:13 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration





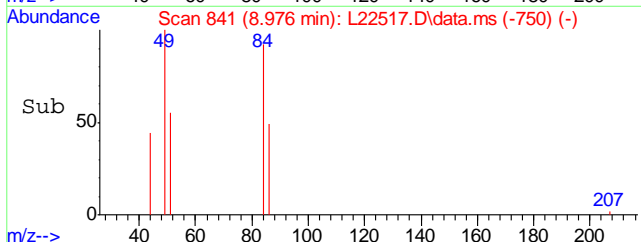
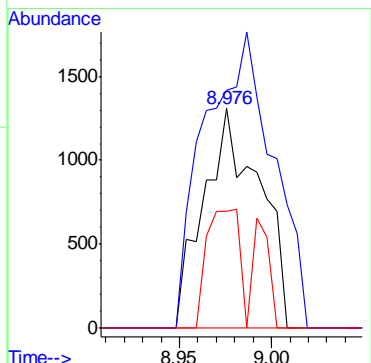
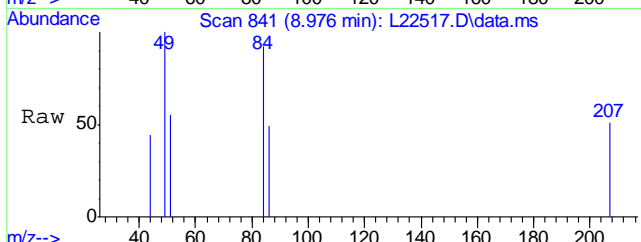
#10  
Acetone  
Concen: 10.87 ug/Kg m  
RT: 7.781 min Scan# 622  
Delta R.T. -0.005 min  
Lab File: L22517.D  
Acq: 4 Feb 2013 8:26 pm

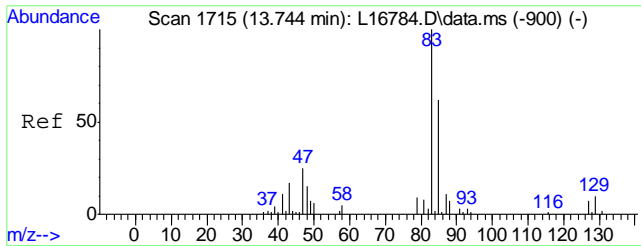
Tgt Ion	Resp	Lower	Upper
58	53072		
43	392.1	334.6	374.6#



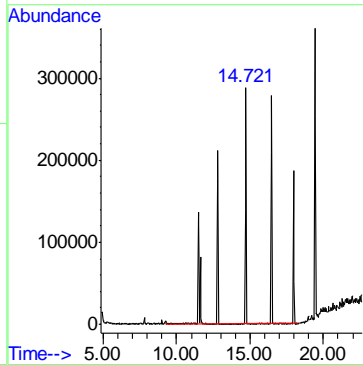
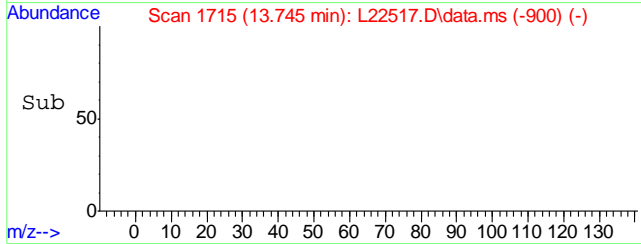
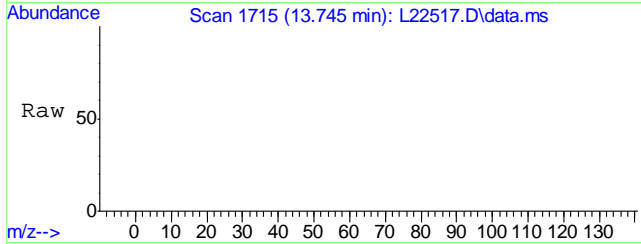
#18  
Methylene Chloride  
Concen: 0.51 ug/Kg  
RT: 8.976 min Scan# 841  
Delta R.T. -0.005 min  
Lab File: L22517.D  
Acq: 4 Feb 2013 8:26 pm

Tgt Ion	Resp	Lower	Upper
84	27425		
49	164.1	125.6	165.6
86	0.0	43.6	83.6#





#96  
TPH-GRO (C6-C10)  
Concen: 2.51 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22517.D  
Acq: 4 Feb 2013 8:26 pm  
Tgt Ion:TIC Resp: 540335



6.1.20  
6



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22472.D  
 Acq On : 2 Feb 2013 12:48 pm  
 Operator : XINGB  
 Sample : MB  
 Misc : MS1656,VL712,5,,,,,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 07:37:18 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

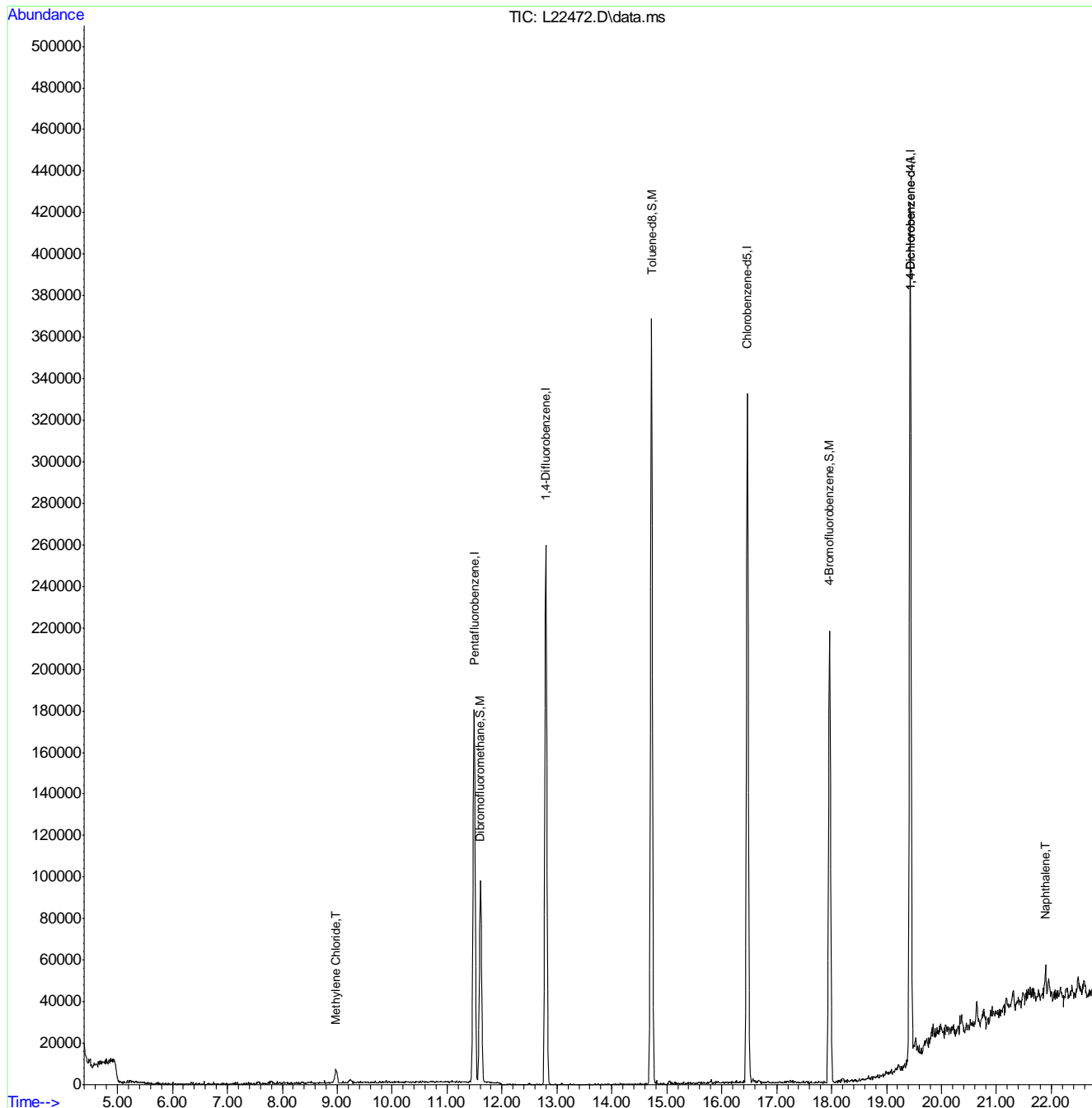
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1781781	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.801	114	2918018	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2528502	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1280520	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1280520	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.606	111	904950	19.08	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	95.40%
53) Toluene-d8	14.721	98	3336715	19.49	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	97.45%
71) 4-Bromofluorobenzene	17.962	95	1250301	18.89	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	94.45%
Target Compounds						
18) Methylene Chloride	8.976	84	47636	0.68	ug/Kg	90
93) Naphthalene	21.896	128	153239	0.72	ug/Kg	100
96) TPH-GRO (C6-C10)	13.747	TIC	-22935m	Below	Cal	

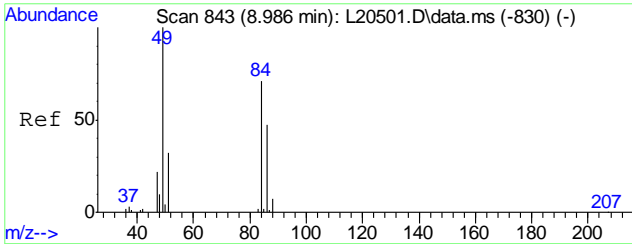
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130202\  
 Data File : L22472.D  
 Acq On : 2 Feb 2013 12:48 pm  
 Operator : XINGB  
 Sample : MB  
 Misc : MS1656,VL712,5,,,,,1  
 ALS Vial : 6 Sample Multiplier: 1

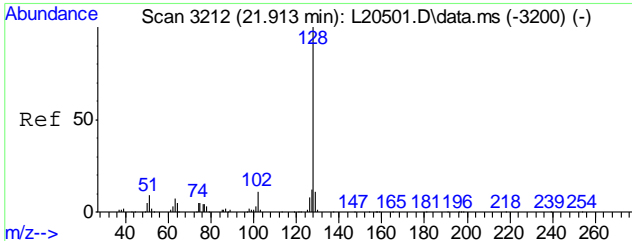
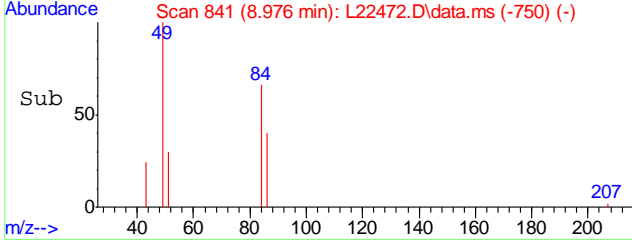
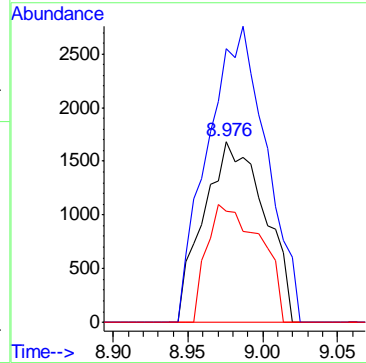
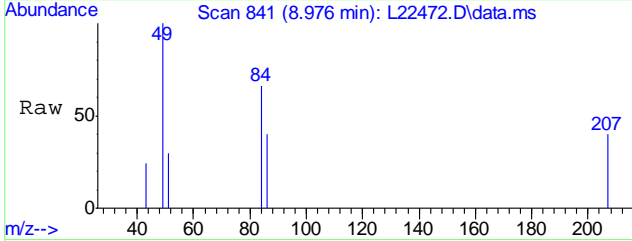
Quant Time: Feb 04 07:37:18 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration





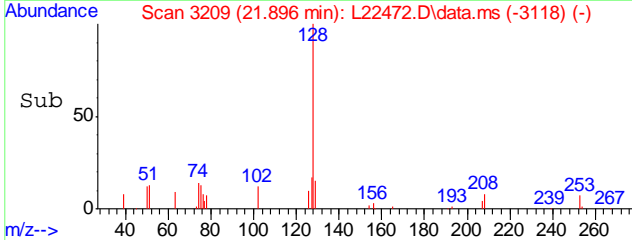
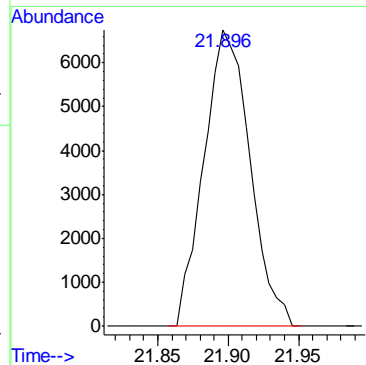
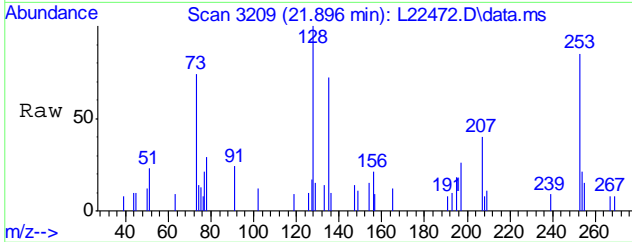
#18  
Methylene Chloride  
Concen: 0.68 ug/Kg  
RT: 8.976 min Scan# 841  
Delta R.T. -0.005 min  
Lab File: L22472.D  
Acq: 2 Feb 2013 12:48 pm

Tgt Ion	Resp	Lower	Upper
84	47636		
49	158.4	125.6	165.6
86	56.9	43.6	83.6



#93  
Naphthalene  
Concen: 0.72 ug/Kg  
RT: 21.896 min Scan# 3209  
Delta R.T. -0.005 min  
Lab File: L22472.D  
Acq: 2 Feb 2013 12:48 pm

Tgt Ion: 128 Resp: 153239



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130204\  
 Data File : L22511.D  
 Acq On : 4 Feb 2013 5:34 pm  
 Operator : XINGB  
 Sample : MB2  
 Misc : MS1656,VL713,5,,,,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 08:27:30 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

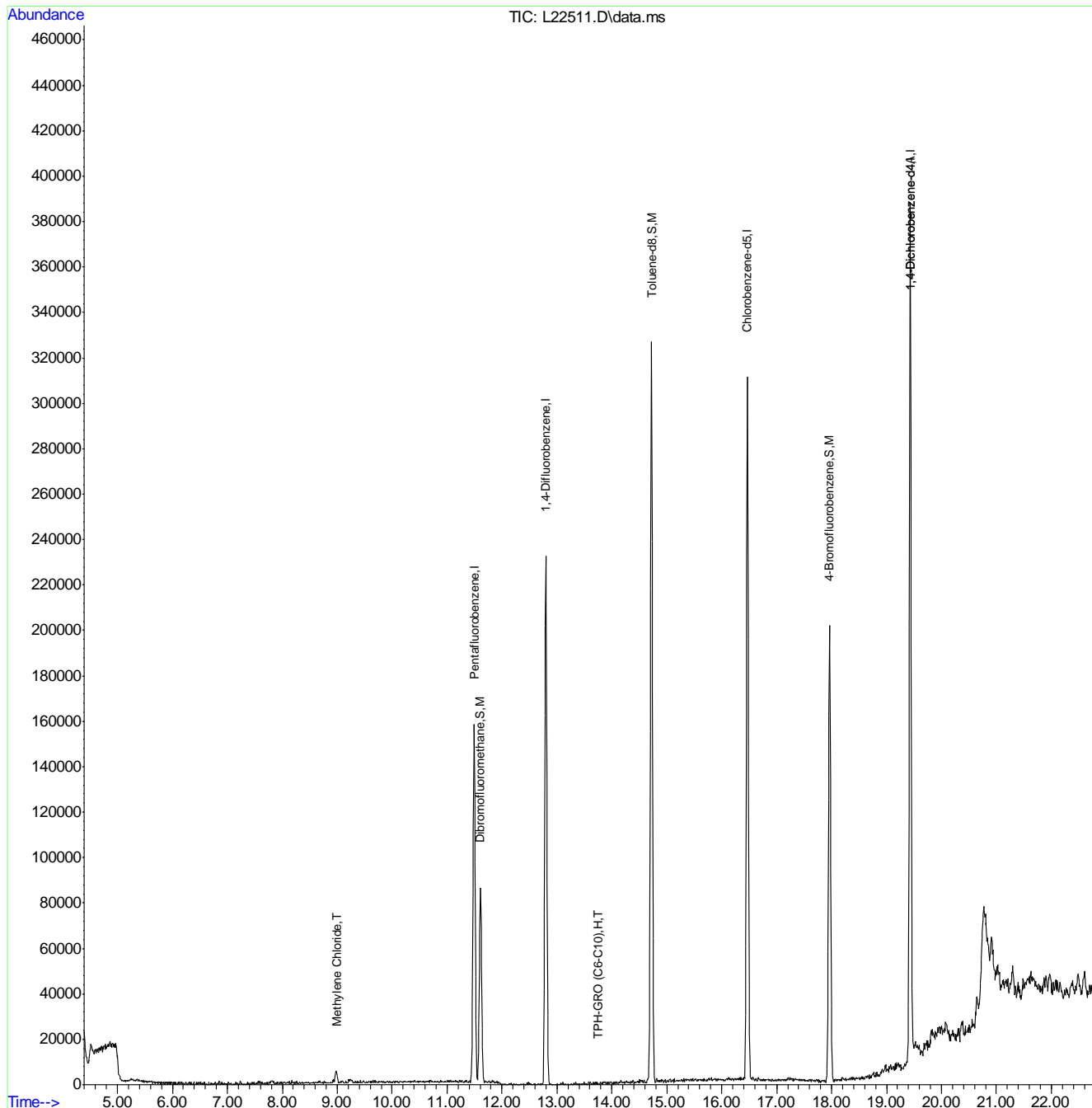
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.491	168	1504389	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.800	114	2582044	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2283696	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1149591	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1149591	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.605	111	799385	19.97	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	99.85%
53) Toluene-d8	14.721	98	2977156	19.25	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	96.25%
71) 4-Bromofluorobenzene	17.962	95	1139764	19.07	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	95.35%
Target Compounds						
18) Methylene Chloride	8.986	84	30817	0.52	ug/Kg	90
96) TPH-GRO (C6-C10)	13.747	TIC	578086m	2.49	ug/Kg	

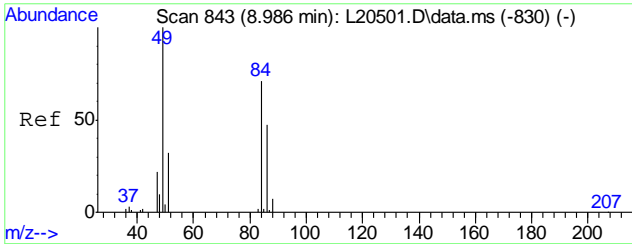
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130204\  
 Data File : L22511.D  
 Acq On : 4 Feb 2013 5:34 pm  
 Operator : XINGB  
 Sample : MB2  
 Misc : MS1656,VL713,5,,,,,1  
 ALS Vial : 4 Sample Multiplier: 1

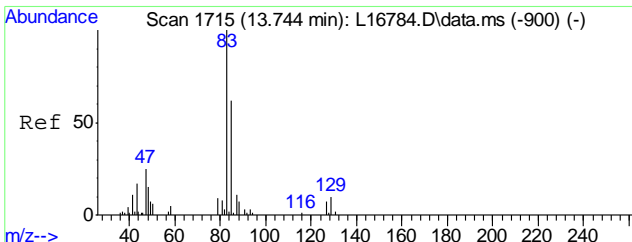
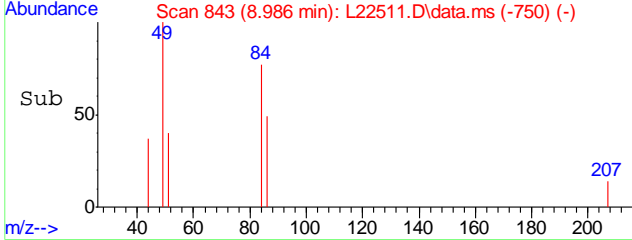
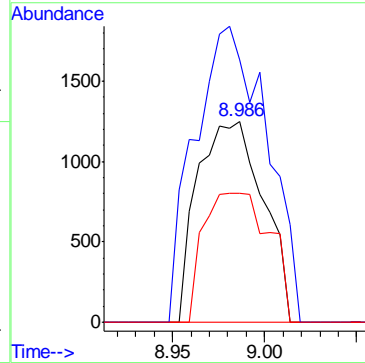
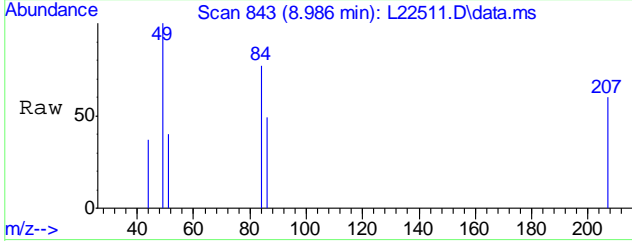
Quant Time: Feb 05 08:27:30 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration





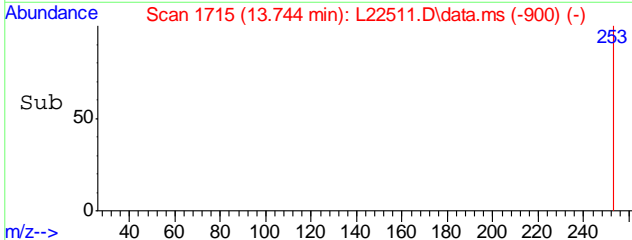
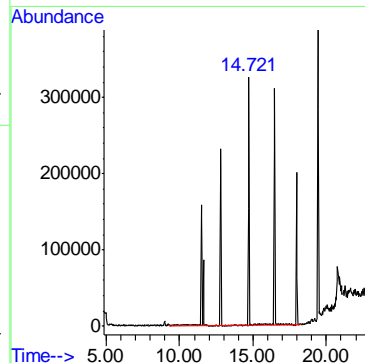
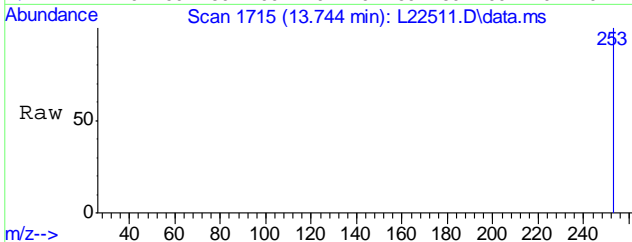
#18  
Methylene Chloride  
Concen: 0.52 ug/Kg  
RT: 8.986 min Scan# 843  
Delta R.T. 0.005 min  
Lab File: L22511.D  
Acq: 4 Feb 2013 5:34 pm

Tgt Ion	Resp	Lower	Upper
84	30817		
49	162.1	125.6	165.6
86	64.7	43.6	83.6



#96  
TPH-GRO (C6-C10)  
Concen: 2.49 ug/Kg m  
RT: 13.747 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: L22511.D  
Acq: 4 Feb 2013 5:34 pm

Tgt Ion:TIC Resp: 578086



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
 Data File : L22541.D  
 Acq On : 5 Feb 2013 12:15 pm  
 Operator : XINGB  
 Sample : MB  
 Misc : MS1656,VL714,5,,,,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 06 09:58:00 2013  
 Quant Method : C:\msdchem\1\METHODS\VL702S.M  
 Quant Title : EPA -8260B  
 QLast Update : Fri Jan 25 08:45:18 2013  
 Response via : Initial Calibration

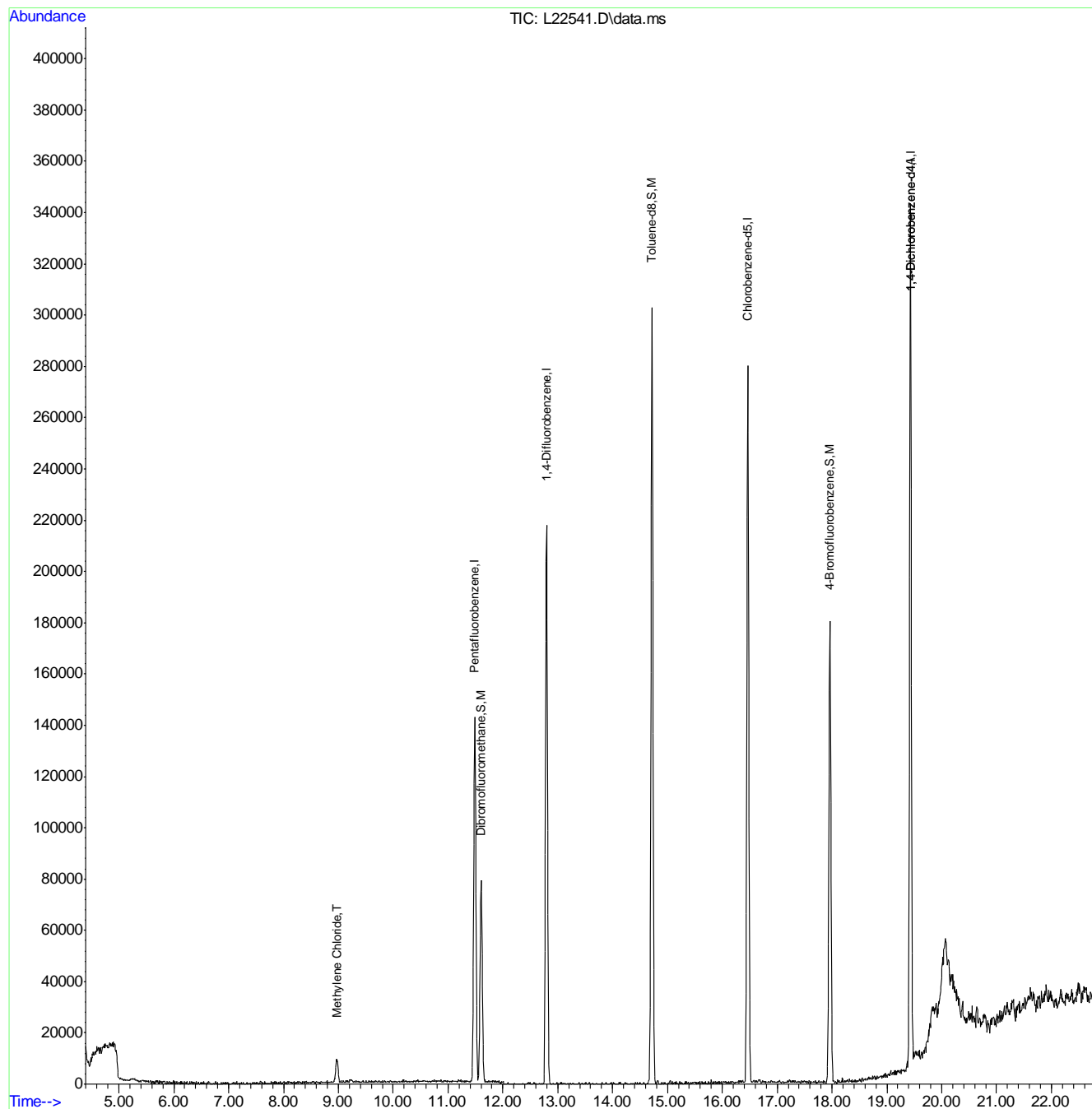
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.486	168	1418601	20.00	ug/Kg	0.00
38) 1,4-Difluorobenzene	12.795	114	2395180	20.00	ug/Kg	0.00
52) Chlorobenzene-d5	16.467	117	2082922	20.00	ug/Kg	0.00
74) 1,4-Dichlorobenzene-d4	19.430	152	1056116	20.00	ug/Kg	0.00
95) 1,4-Dichlorobenzene-d4A	19.430	152	1056116	20.00	ug/Kg	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.606	111	748170	19.82	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	99.10%
53) Toluene-d8	14.716	98	2757453	19.55	ug/Kg	0.00
Spiked Amount	20.000	Range	70 - 130	Recovery	=	97.75%
71) 4-Bromofluorobenzene	17.957	95	1029213	18.88	ug/Kg	-0.01
Spiked Amount	20.000	Range	70 - 130	Recovery	=	94.40%
Target Compounds						
18) Methylene Chloride	8.970	84	60325	1.07	ug/Kg	Qvalue 89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

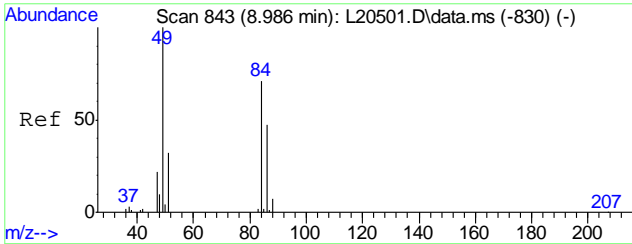
## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L130205\  
Data File : L22541.D  
Acq On : 5 Feb 2013 12:15 pm  
Operator : XINGB  
Sample : MB  
Misc : MS1656,VL714,5,,,,,1  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 06 09:58:00 2013  
Quant Method : C:\msdchem\1\METHODS\VL702S.M  
Quant Title : EPA -8260B  
QLast Update : Fri Jan 25 08:45:18 2013  
Response via : Initial Calibration

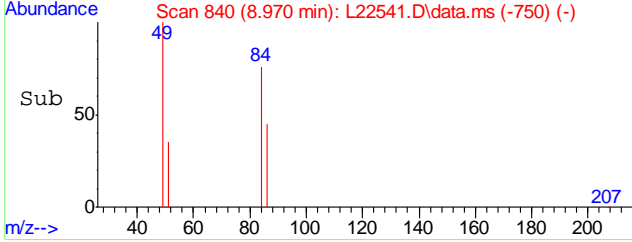
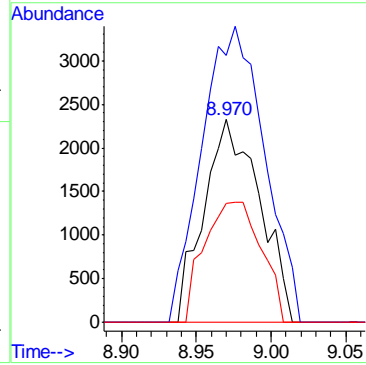
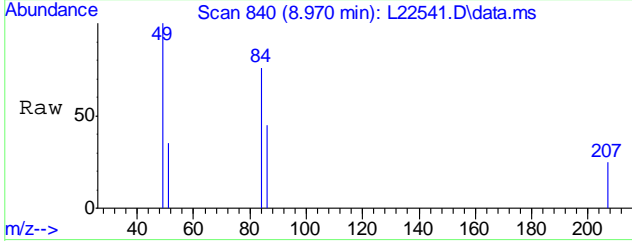






#18  
 Methylene Chloride  
 Concen: 1.07 ug/Kg  
 RT: 8.970 min Scan# 840  
 Delta R.T. -0.011 min  
 Lab File: L22541.D  
 Acq: 5 Feb 2013 12:15 pm

Tgt Ion	Resp	Lower	Upper
84	60325		
49	163.9	125.6	165.6
86	60.5	43.6	83.6



6.2.3  
 6

## GC/MS Semi-volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

**Method Blank Summary**

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7407-MB	Y18763.D	1	01/29/13	MT	01/28/13	OP7407	EY882

The QC reported here applies to the following samples:

Method: SW846 8270C

C25941-1, C25941-2, C25941-3, C25941-4, C25941-5, C25941-6, C25941-7, C25941-8, C25941-9, C25941-10, C25941-11, C25941-12, C25941-13, C25941-14

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
4165-60-0	Nitrobenzene-d5	56%	15-101%
321-60-8	2-Fluorobiphenyl	56%	15-104%
1718-51-0	Terphenyl-d14	126%* a	56-123%

(a) Outside laboratory control limits (high bias).

**Method Blank Summary**

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7411-MB	Y18766.D	1	01/29/13	MT	01/29/13	OP7411	EY882

The QC reported here applies to the following samples:

Method: SW846 8270C

C25941-15, C25941-16, C25941-17, C25941-18, C25941-19, C25941-20

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	83%	14-99%
4165-62-2	Phenol-d5	89%	18-100%
118-79-6	2,4,6-Tribromophenol	94%	25-107%
4165-60-0	Nitrobenzene-d5	82%	15-101%
321-60-8	2-Fluorobiphenyl	83%	15-104%
1718-51-0	Terphenyl-d14	113%	56-123%

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7407-BS	Y18764.D	1	01/29/13	MT	01/28/13	OP7407	EY882
OP7407-BSD	Y18765.D	1	01/29/13	MT	01/28/13	OP7407	EY882

**The QC reported here applies to the following samples:** **Method:** SW846 8270C

C25941-1, C25941-2, C25941-3, C25941-4, C25941-5, C25941-6, C25941-7, C25941-8, C25941-9, C25941-10, C25941-11, C25941-12, C25941-13, C25941-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	833	525	63	495	59	6	34-112/28
208-96-8	Acenaphthylene	833	564	68	546	66	3	33-115/28
120-12-7	Anthracene	833	734	88	727	87	1	59-111/21
56-55-3	Benzo(a)anthracene	833	814	98	803	96	1	72-122/22
50-32-8	Benzo(a)pyrene	833	814	98	806	97	1	71-120/22
205-99-2	Benzo(b)fluoranthene	833	831	100	815	98	2	67-123/24
191-24-2	Benzo(g,h,i)perylene	833	734	88	767	92	4	57-134/24
207-08-9	Benzo(k)fluoranthene	833	856	103	842	101	2	74-126/25
218-01-9	Chrysene	833	765	92	754	90	1	73-125/22
53-70-3	Dibenzo(a,h)anthracene	833	777	93	796	96	2	59-132/23
206-44-0	Fluoranthene	833	795	95	784	94	1	69-117/21
86-73-7	Fluorene	833	656	79	632	76	4	42-112/24
193-39-5	Indeno(1,2,3-cd)pyrene	833	796	96	798	96	0	60-131/21
90-12-0	1-Methylnaphthalene	833	558	67	537	64	4	33-110/30
91-57-6	2-Methylnaphthalene	833	580	70	555	67	4	33-107/30
91-20-3	Naphthalene	833	477	57	463	56	3	32-121/31
85-01-8	Phenanthrene	833	710	85	705	85	1	57-113/21
129-00-0	Pyrene	833	909	109	912	109	0	63-120/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	66%	65%	15-101%
321-60-8	2-Fluorobiphenyl	69%	67%	15-104%
1718-51-0	Terphenyl-d14	117%	118%	56-123%

\* = Outside of Control Limits.

7.2.1  
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# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7411-BS	Y18767.D	1	01/29/13	MT	01/29/13	OP7411	EY882
OP7411-BSD	Y18768.D	1	01/29/13	MT	01/29/13	OP7411	EY882

The QC reported here applies to the following samples:

Method: SW846 8270C

C25941-15, C25941-16, C25941-17, C25941-18, C25941-19, C25941-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	833	626	75	606	73	3	34-112/28
208-96-8	Acenaphthylene	833	680	82	657	79	3	33-115/28
120-12-7	Anthracene	833	791	95	767	92	3	59-111/21
56-55-3	Benzo(a)anthracene	833	831	100	822	99	1	72-122/22
50-32-8	Benzo(a)pyrene	833	840	101	836	100	0	71-120/22
205-99-2	Benzo(b)fluoranthene	833	862	103	849	102	2	67-123/24
191-24-2	Benzo(g,h,i)perylene	833	754	90	734	88	3	57-134/24
207-08-9	Benzo(k)fluoranthene	833	838	101	831	100	1	74-126/25
218-01-9	Chrysene	833	782	94	778	93	1	73-125/22
53-70-3	Dibenzo(a,h)anthracene	833	803	96	782	94	3	59-132/23
206-44-0	Fluoranthene	833	841	101	834	100	1	69-117/21
86-73-7	Fluorene	833	746	90	729	87	2	42-112/24
193-39-5	Indeno(1,2,3-cd)pyrene	833	789	95	782	94	1	60-131/21
90-12-0	1-Methylnaphthalene	833	678	81	672	81	1	33-110/30
91-57-6	2-Methylnaphthalene	833	710	85	697	84	2	33-107/30
91-20-3	Naphthalene	833	594	71	585	70	2	32-121/31
85-01-8	Phenanthrene	833	764	92	745	89	3	57-113/21
129-00-0	Pyrene	833	868	104	831	100	4	63-120/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	86%	83%	14-99%
4165-62-2	Phenol-d5	90%	88%	18-100%
118-79-6	2,4,6-Tribromophenol	100%	97%	25-107%
4165-60-0	Nitrobenzene-d5	85%	84%	15-101%
321-60-8	2-Fluorobiphenyl	84%	83%	15-104%
1718-51-0	Terphenyl-d14	113%	108%	56-123%

\* = Outside of Control Limits.

7.2.2  
 7

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7407-MS	Y18787.D	1	01/30/13	MT	01/28/13	OP7407	EY882
OP7407-MSD	Y18788.D	1	01/30/13	MT	01/28/13	OP7407	EY882
C25941-2	Y18786.D	1	01/30/13	MT	01/28/13	OP7407	EY882

The QC reported here applies to the following samples:

Method: SW846 8270C

C25941-1, C25941-2, C25941-3, C25941-4, C25941-5, C25941-6, C25941-7, C25941-8, C25941-9, C25941-10, C25941-11, C25941-12, C25941-13, C25941-14

CAS No.	Compound	C25941-2 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND	831	425	51	551	66	26	34-112/28
208-96-8	Acenaphthylene	ND	831	469	56	585	71	22	33-115/28
120-12-7	Anthracene	ND	831	679	82	739	89	8	59-111/21
56-55-3	Benzo(a)anthracene	ND	831	779	94	767	93	2	72-122/22
50-32-8	Benzo(a)pyrene	ND	831	822	99	799	96	3	71-120/22
205-99-2	Benzo(b)fluoranthene	ND	831	827	100	839	101	1	67-123/24
191-24-2	Benzo(g,h,i)perylene	ND	831	647	78	619	75	4	57-134/24
207-08-9	Benzo(k)fluoranthene	ND	831	867	104	799	96	8	74-126/25
218-01-9	Chrysene	ND	831	743	89	725	87	2	73-125/22
53-70-3	Dibenzo(a,h)anthracene	ND	831	745	90	707	85	5	59-132/23
206-44-0	Fluoranthene	ND	831	778	94	776	94	0	69-117/21
86-73-7	Fluorene	ND	831	551	66	667	80	19	42-112/24
193-39-5	Indeno(1,2,3-cd)pyrene	ND	831	711	86	682	82	4	60-131/21
90-12-0	1-Methylnaphthalene	ND	831	480	58	599	72	22	33-110/30
91-57-6	2-Methylnaphthalene	ND	831	501	60	617	74	21	33-107/30
91-20-3	Naphthalene	ND	831	415	50	512	62	21	32-121/31
85-01-8	Phenanthrene	ND	831	643	77	703	85	9	57-113/21
129-00-0	Pyrene	ND	831	817	98	790	95	3	63-120/20

CAS No.	Surrogate Recoveries	MS	MSD	C25941-2	Limits
4165-60-0	Nitrobenzene-d5	61%	72%	63%	15-101%
321-60-8	2-Fluorobiphenyl	60%	73%	64%	15-104%
1718-51-0	Terphenyl-d14	110%	103%	102%	56-123%

\* = Outside of Control Limits.

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# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7411-MS	Y18784.D	1	01/30/13	MT	01/29/13	OP7411	EY882
OP7411-MSD	Y18785.D	1	01/30/13	MT	01/29/13	OP7411	EY882
C25941-20	Y18783.D	1	01/30/13	MT	01/29/13	OP7411	EY882

The QC reported here applies to the following samples:

Method: SW846 8270C

C25941-15, C25941-16, C25941-17, C25941-18, C25941-19, C25941-20

CAS No.	Compound	C25941-20 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND	830	534	64	480	58	11	34-112/28	
208-96-8	Acenaphthylene	ND	830	581	70	529	64	9	33-115/28	
120-12-7	Anthracene	ND	830	741	89	662	80	11	59-111/21	
56-55-3	Benzo(a)anthracene	ND	830	765	92	680	82	12	72-122/22	
50-32-8	Benzo(a)pyrene	ND	830	798	96	720	87	10	71-120/22	
205-99-2	Benzo(b)fluoranthene	ND	830	856	103	734	88	15	67-123/24	
191-24-2	Benzo(g,h,i)perylene	ND	830	585	70	560	67	4	57-134/24	
207-08-9	Benzo(k)fluoranthene	ND	830	823	99	750	90	9	74-126/25	
218-01-9	Chrysene	ND	830	724	87	649	78	11	73-125/22	
53-70-3	Dibenzo(a,h)anthracene	ND	830	684	82	635	77	7	59-132/23	
206-44-0	Fluoranthene	ND	830	778	94	695	84	11	69-117/21	
86-73-7	Fluorene	ND	830	673	81	608	73	10	42-112/24	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	830	691	83	655	79	5	60-131/21	
90-12-0	1-Methylnaphthalene	ND	830	576	69	522	63	10	33-110/30	
91-57-6	2-Methylnaphthalene	ND	830	596	72	541	65	10	33-107/30	
91-20-3	Naphthalene	ND	830	487	59	443	53	9	32-121/31	
85-01-8	Phenanthrene	ND	830	711	86	638	77	11	57-113/21	
129-00-0	Pyrene	ND	830	786	95	718	87	9	63-120/20	

CAS No.	Surrogate Recoveries	MS	MSD	C25941-20	Limits
367-12-4	2-Fluorophenol	73%	69%		14-99%
4165-62-2	Phenol-d5	78%	74%		18-100%
118-79-6	2,4,6-Tribromophenol	99%	90%		25-107%
4165-60-0	Nitrobenzene-d5	72%	69%	77%	15-101%
321-60-8	2-Fluorobiphenyl	75%	72%	80%	15-104%
1718-51-0	Terphenyl-d14	107%	103%	110%	56-123%

\* = Outside of Control Limits.

7.3.2  
 7



GC/MS Semi-volatiles

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Raw Data

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Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18818.D Vial: 13  
 Acq On : 30 Jan 2013 7:28 pm Operator: MAIT  
 Sample : C25941-1 Inst : Y  
 Misc : OP7407,EY883,30.08,,,1,1,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:37:06 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.093	152	290926	40.00	ppm	# 0.00
25) Naphthalene-d8	7.724	136	1074167	40.00	ppm	# 0.00
43) Acenaphthene-d10	9.949	164	660914	40.00	ppm	# 0.00
73) Phenanthrene-d10	11.773	188	1076432	40.00	ppm	# 0.00
84) Chrysene-d12	16.523	240	754206	40.00	ppm	#-0.01
93) Perylene-d12	19.855	264	483102	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.537	112	638716	61.73	ppm	0.02
Spiked Amount	75.000	Range 10 - 100	Recovery =	82.31%		
9) Phenol-d5	5.703	99	901270	64.29	ppm	0.00
Spiked Amount	75.000	Range 7 - 100	Recovery =	85.72%		
23) Nitrobenzene-d5	6.836	82	547499	40.57	ppm	0.00
Spiked Amount	50.000	Range 25 - 100	Recovery =	81.14%		
47) 2-Fluorobiphenyl	9.104	172	984145	42.64	ppm	0.00
Spiked Amount	50.000	Range 20 - 100	Recovery =	85.28%		
74) 2,4,6-Tribromophenol	10.939	330	129130	72.22	ppm	0.00
Spiked Amount	75.000	Range 25 - 115	Recovery =	96.29%		
86) p-Terphenyl-d14	14.346	244	1015042	54.13	ppm	0.00
Spiked Amount	50.000	Range 35 - 130	Recovery =	108.26%		

Target Compounds Qvalue

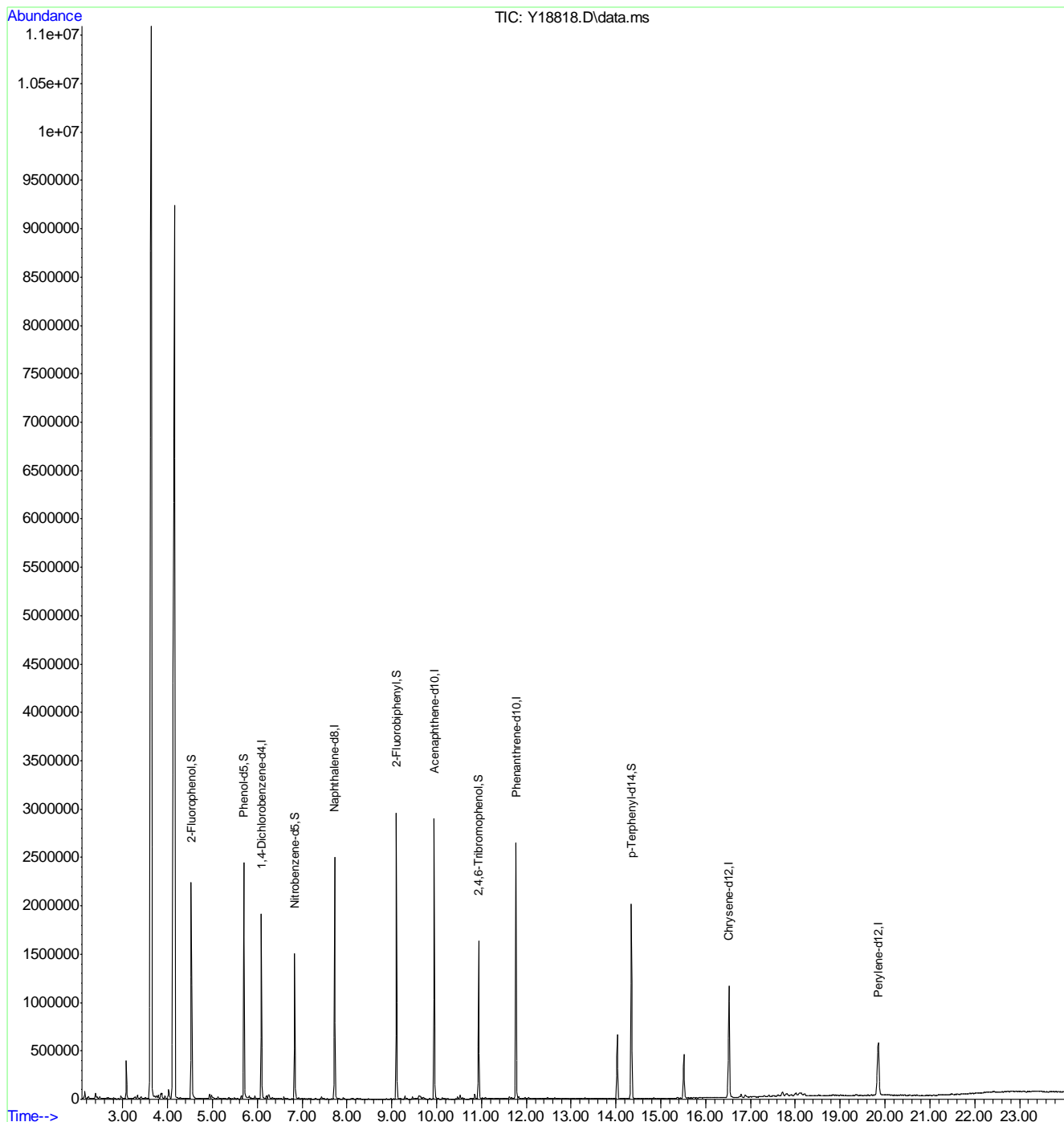
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.1  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18818.D Vial: 13  
 Acq On : 30 Jan 2013 7:28 pm Operator: MAIT  
 Sample : C25941-1 Inst : Y  
 Misc : OP7407,EY883,30.08,,,1,1,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:37:06 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.1.1  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130129\Y18786.D Vial: 17  
 Acq On : 30 Jan 2013 1:57 am Operator: MAIT  
 Sample : C25941-2 Inst : Y  
 Misc : OP7407,EY882,30.02,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 30 15:19:07 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Wed Jan 30 15:01:21 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.136	152	405809	40.00	ppm	# 0.00
25) Naphthalene-d8	7.767	136	1529389	40.00	ppm	# 0.00
43) Acenaphthene-d10	9.992	164	950554	40.00	ppm	# 0.00
73) Phenanthrene-d10	11.811	188	1570746	40.00	ppm	# 0.00
84) Chrysene-d12	16.587	240	1122004	40.00	ppm	#-0.01
93) Perylene-d12	19.941	264	632102	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.579	112	682655	47.30	ppm	0.02
Spiked Amount	75.000	Range 10 - 100	Recovery =	63.07%		
9) Phenol-d5	5.745	99	978174	50.02	ppm	0.00
Spiked Amount	75.000	Range 7 - 100	Recovery =	66.69%		
23) Nitrobenzene-d5	6.879	82	589831	31.33	ppm	0.00
Spiked Amount	50.000	Range 25 - 100	Recovery =	62.66%		
47) 2-Fluorobiphenyl	9.142	172	1069906	32.23	ppm	-0.01
Spiked Amount	50.000	Range 20 - 100	Recovery =	64.46%		
74) 2,4,6-Tribromophenol	10.982	330	162619	62.33	ppm	0.00
Spiked Amount	75.000	Range 25 - 115	Recovery =	83.11%		
86) p-Terphenyl-d14	14.405	244	1422519	51.00	ppm	0.00
Spiked Amount	50.000	Range 35 - 130	Recovery =	102.00%		

Target Compounds Qvalue

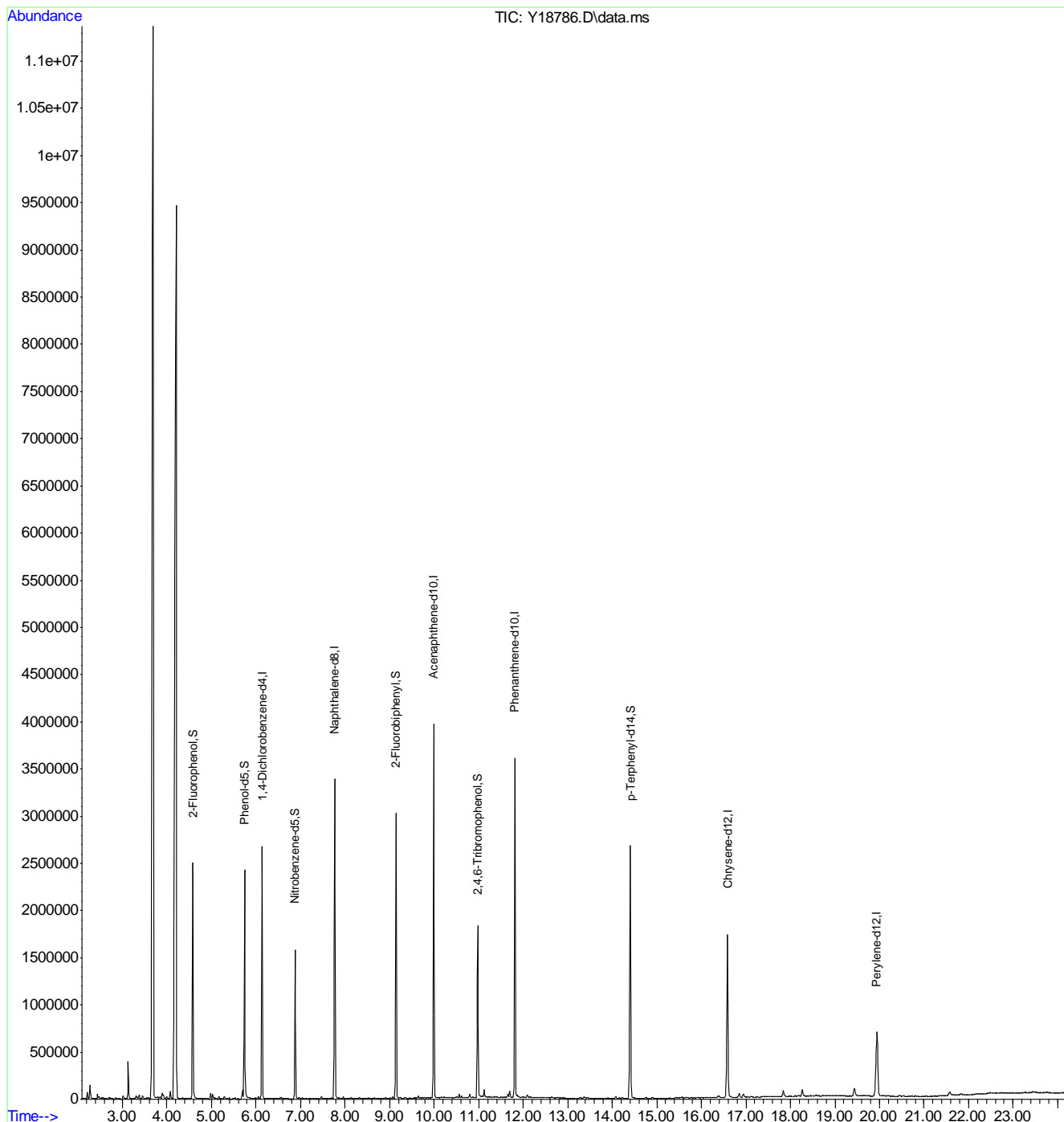
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.12  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130129\Y18786.D Vial: 17  
 Acq On : 30 Jan 2013 1:57 am Operator: MAIT  
 Sample : C25941-2 Inst : Y  
 Misc : OP7407,EY882,30.02,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 30 15:19:07 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Wed Jan 30 15:01:21 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.12  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18819.D Vial: 14
Acq On : 30 Jan 2013 8:00 pm Operator: MAIT
Sample : C25941-3 Inst : Y
Misc : OP7407,EY883,30.00,,,1,1,S,pah Multiplr: 1.00
Quant Results File: EY880\_Terpineol.RES
Quant Time: Jan 31 13:38:38 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 13:10:40 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, 25) Naphthalene-d8, 43) Acenaphthene-d10, 73) Phenanthrene-d10, 84) Chrysene-d12, 93) Perylene-d12; System Monitoring Compounds (5) 2-Fluorophenol, 9) Phenol-d5, 23) Nitrobenzene-d5, 47) 2-Fluorobiphenyl, 74) 2,4,6-Tribromophenol, 86) p-Terphenyl-d14; and Target Compounds (10) Phenol.

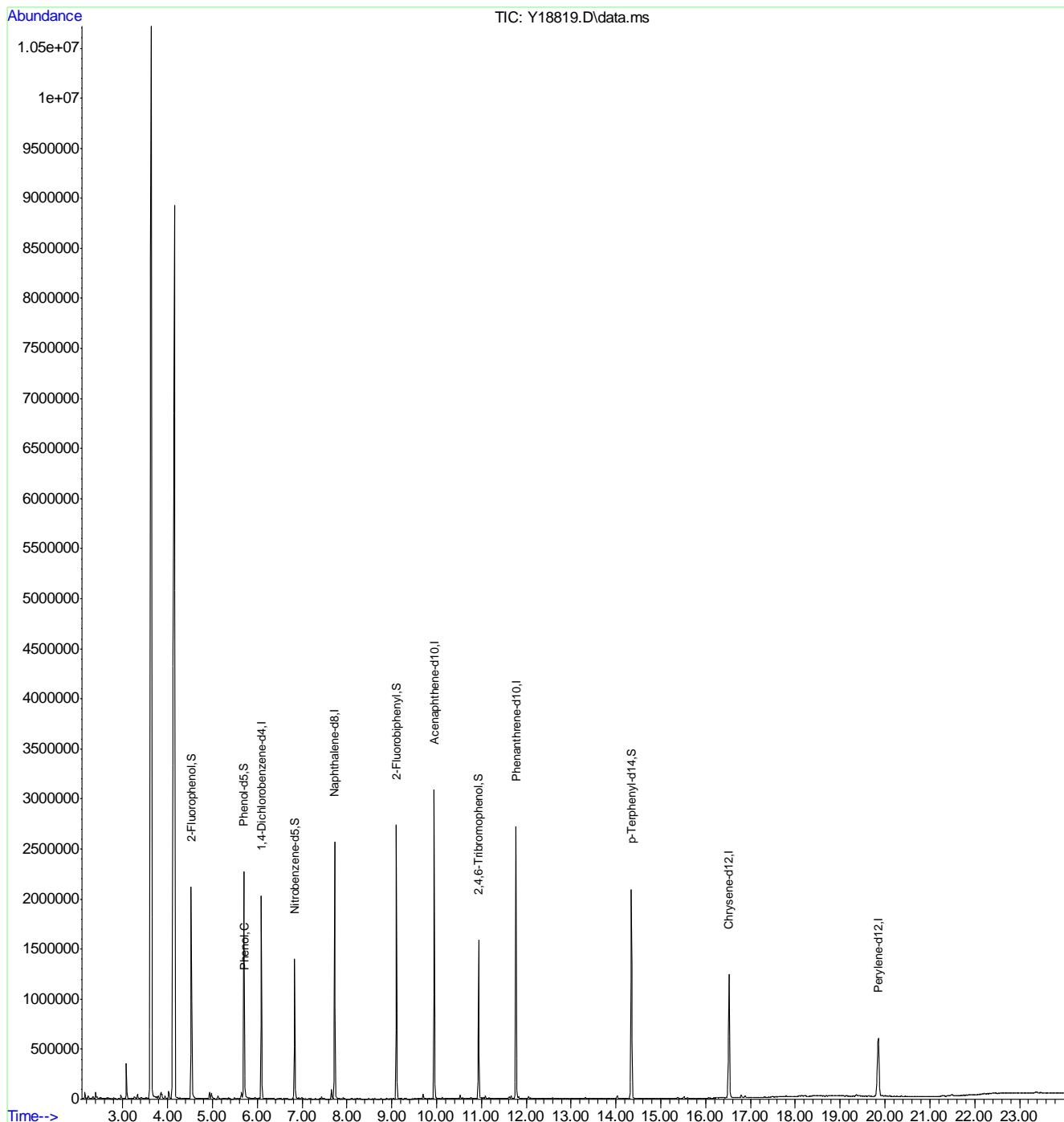
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.3
8

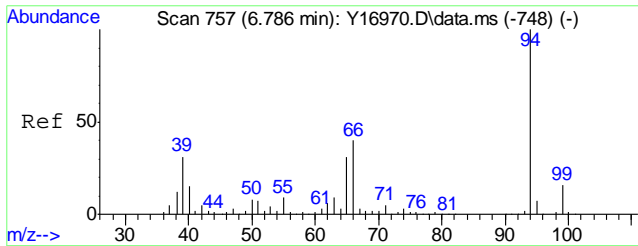
Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18819.D Vial: 14  
 Acq On : 30 Jan 2013 8:00 pm Operator: MAIT  
 Sample : C25941-3 Inst : Y  
 Misc : OP7407,EY883,30.00,,,1,1,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:38:38 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

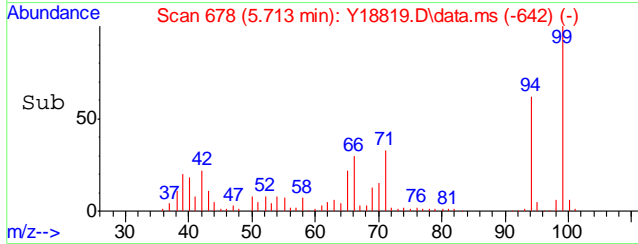
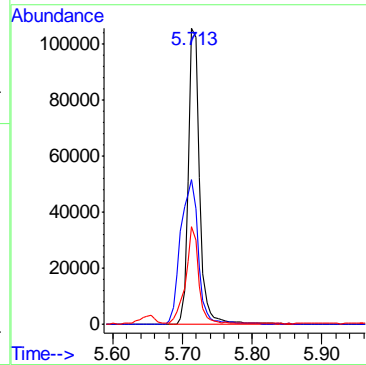
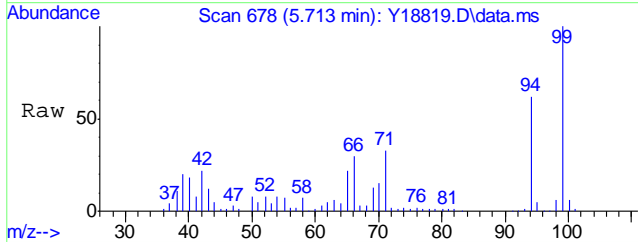


8.1.3  
8



#10  
 Phenol  
 Concen: 6.62 ppm  
 RT: 5.713 min Scan# 678  
 Delta R.T. -0.005 min  
 Lab File: Y18819.D  
 Acq: 30 Jan 2013 8:00 pm

Tgt Ion	Resp	Lower	Upper
94	118756		
94	100		
66	76.6	30.2	56.0#
39	37.4	19.3	35.9#



8.1.3  
 8



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18820.D Vial: 15  
 Acq On : 30 Jan 2013 8:32 pm Operator: MAIT  
 Sample : C25941-4 Inst : Y  
 Misc : OP7407,EY883,30.01,,,1,1,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:42:23 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.093	152	269379	40.00	ppm	# 0.00
25) Naphthalene-d8	7.724	136	1006856	40.00	ppm	# 0.00
43) Acenaphthene-d10	9.949	164	623611	40.00	ppm	# 0.00
73) Phenanthrene-d10	11.773	188	983440	40.00	ppm	# 0.00
84) Chrysene-d12	16.523	240	666526	40.00	ppm	#-0.01
93) Perylene-d12	19.844	264	369893	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.537	112	579603	60.50	ppm	0.02
Spiked Amount	75.000	Range 10 - 100	Recovery =	80.67%		
9) Phenol-d5	5.708	99	828413	63.82	ppm	0.00
Spiked Amount	75.000	Range 7 - 100	Recovery =	85.09%		
23) Nitrobenzene-d5	6.837	82	498792	39.92	ppm	0.00
Spiked Amount	50.000	Range 25 - 100	Recovery =	79.84%		
47) 2-Fluorobiphenyl	9.104	172	916536	42.08	ppm	0.00
Spiked Amount	50.000	Range 20 - 100	Recovery =	84.16%		
74) 2,4,6-Tribromophenol	10.939	330	122253	74.84	ppm	0.00
Spiked Amount	75.000	Range 25 - 115	Recovery =	99.79%		
86) p-Terphenyl-d14	14.346	244	907157	54.75	ppm	0.00
Spiked Amount	50.000	Range 35 - 130	Recovery =	109.50%		
Target Compounds						
10) Phenol	5.719	94	75794	4.87	ppm	Qvalue # 40

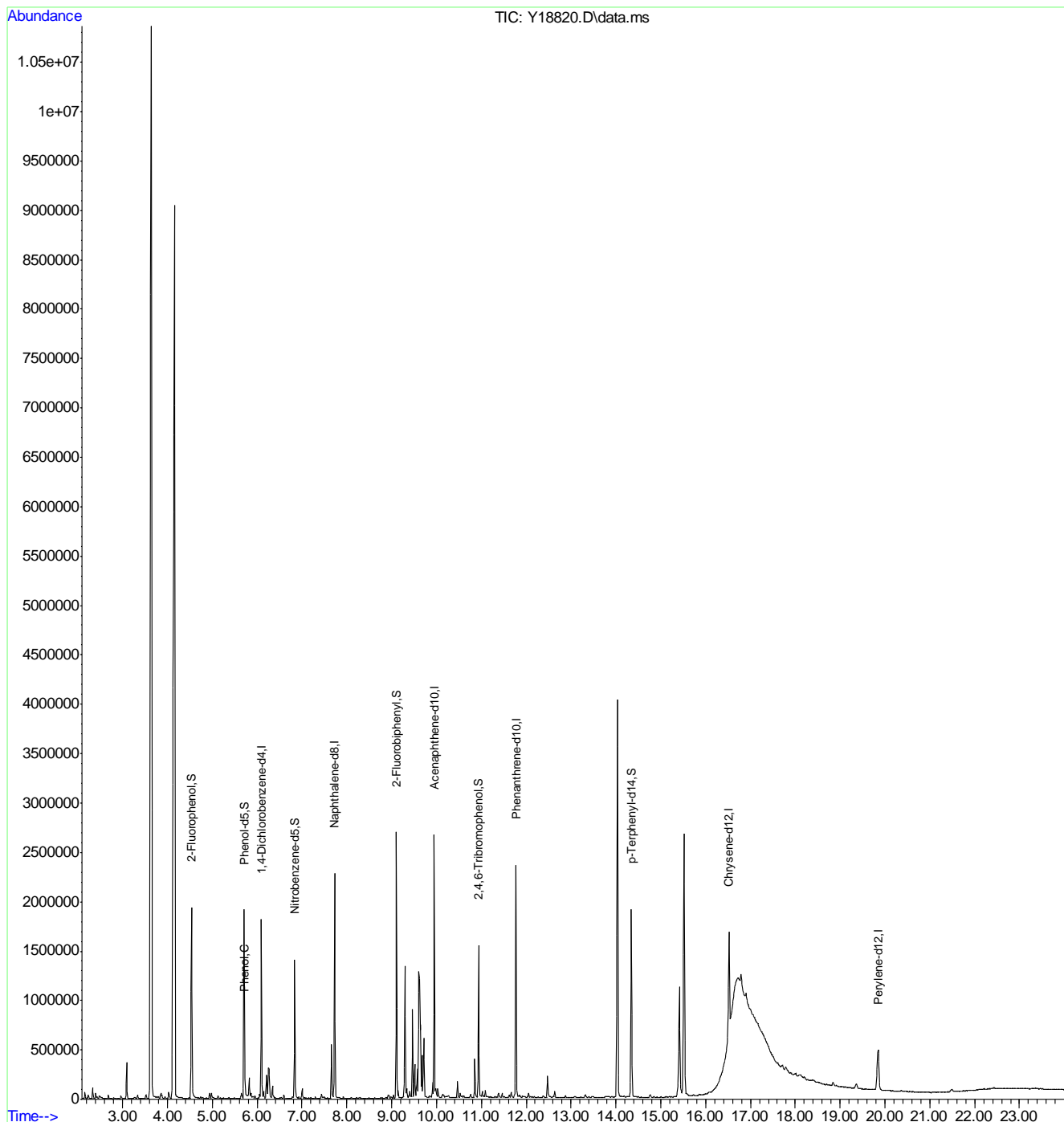
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.14  
8

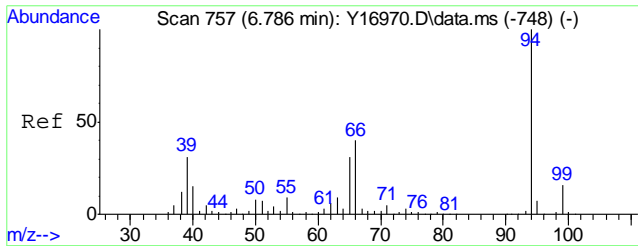
Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18820.D Vial: 15  
 Acq On : 30 Jan 2013 8:32 pm Operator: MAIT  
 Sample : C25941-4 Inst : Y  
 Misc : OP7407,EY883,30.01,,,1,1,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:42:23 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

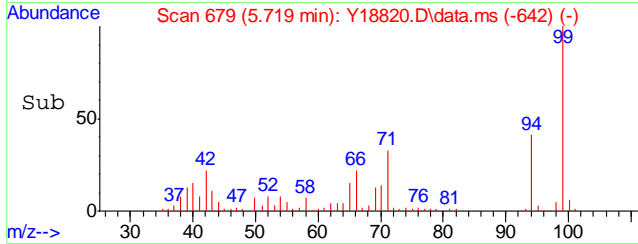
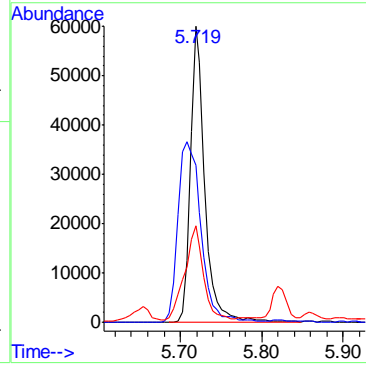
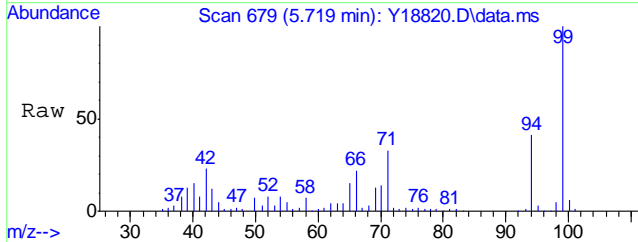


8.1.4  
8



#10  
 Phenol  
 Concen: 4.87 ppm  
 RT: 5.719 min Scan# 679  
 Delta R.T. 0.000 min  
 Lab File: Y18820.D  
 Acq: 30 Jan 2013 8:32 pm

Tgt Ion	Resp	Lower	Upper
94	75794		
94	100		
66	95.4	30.2	56.0#
39	40.9	19.3	35.9#



8.1.4  
8

## Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18813.D Vial: 8  
 Acq On : 30 Jan 2013 4:47 pm Operator: MAIT  
 Sample : C25941-5 Inst : Y  
 Misc : OP7407,EY883,30.12,,,1,4,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:17:13 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.093	152	319481	40.00	ppm	# 0.00
25) Naphthalene-d8	7.724	136	1199602	40.00	ppm	# 0.00
43) Acenaphthene-d10	9.949	164	734815	40.00	ppm	# 0.00
73) Phenanthrene-d10	11.773	188	1142186	40.00	ppm	# 0.00
84) Chrysene-d12	16.523	240	757652	40.00	ppm	#-0.01
93) Perylene-d12	19.850	264	474686	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.531	112	177677	15.64	ppm	0.02
Spiked Amount	75.000	Range 10 - 100	Recovery =	20.85%		
9) Phenol-d5	5.697	99	255759	16.61	ppm	0.00
Spiked Amount	75.000	Range 7 - 100	Recovery =	22.15%		
23) Nitrobenzene-d5	6.831	82	151478	10.22	ppm	-0.01
Spiked Amount	50.000	Range 25 - 100	Recovery =	20.44%#		
47) 2-Fluorobiphenyl	9.104	172	278573	10.85	ppm	0.00
Spiked Amount	50.000	Range 20 - 100	Recovery =	21.70%		
74) 2,4,6-Tribromophenol	10.939	330	33445	17.63	ppm	0.00
Spiked Amount	75.000	Range 25 - 115	Recovery =	23.51%#		
86) p-Terphenyl-d14	14.341	244	259704	13.79	ppm	0.00
Spiked Amount	50.000	Range 35 - 130	Recovery =	27.58%#		

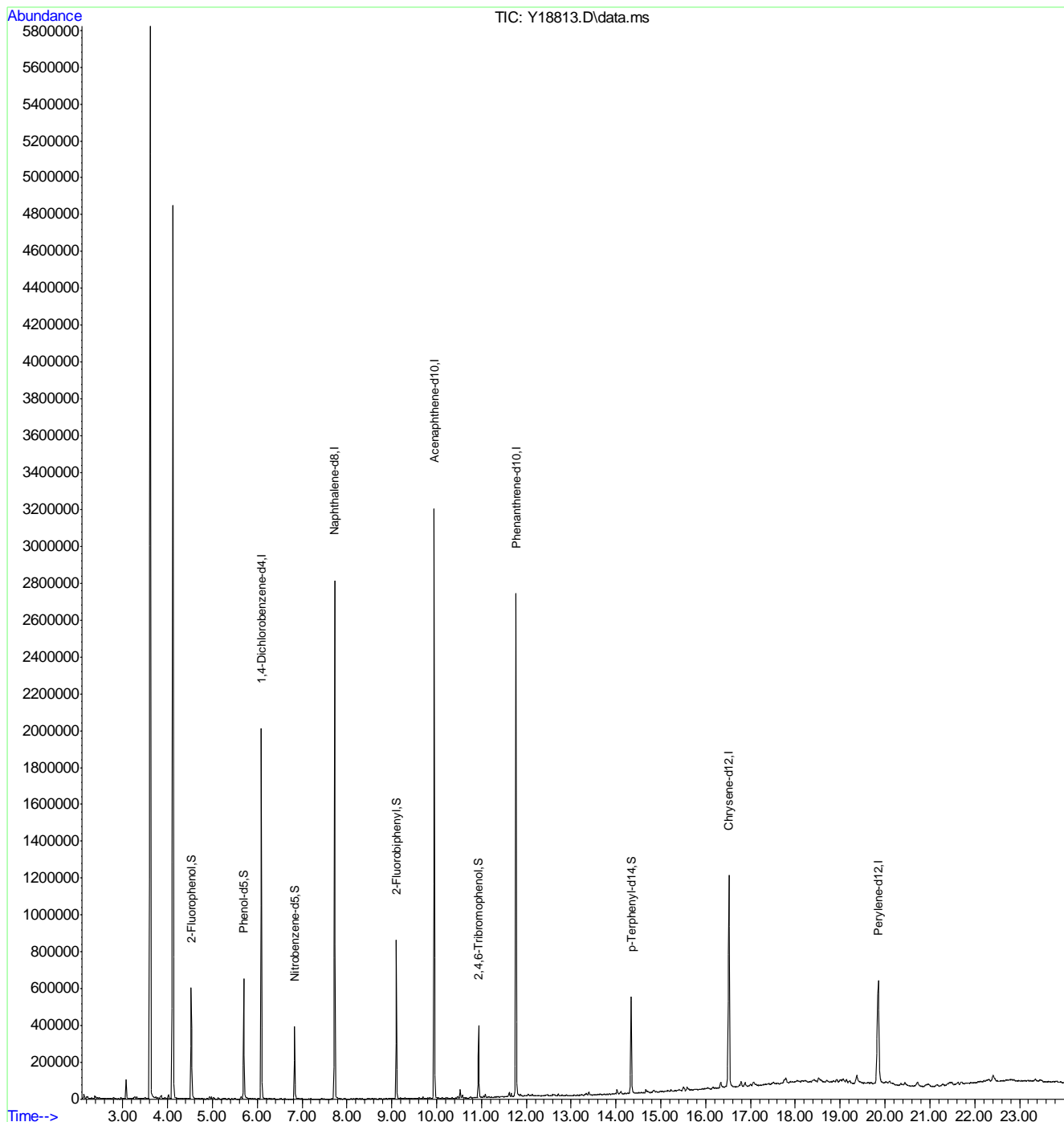
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18813.D Vial: 8  
 Acq On : 30 Jan 2013 4:47 pm Operator: MAIT  
 Sample : C25941-5 Inst : Y  
 Misc : OP7407,EY883,30.12,,,1,4,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:17:13 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.1.5  
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\
Data File : Z2061.D
Acq On : 30 Jan 2013 7:27 pm
Operator : MAIT
Sample : C25941-6
Misc : OP7407,EZ105,30.05,,,1,1,S
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 31 15:07:34 2013
Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 15:04:04 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with 7 columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, (6) Naphthalene-d8, (10) Acenaphthene-d10, (15) Phenanthrene-d10, (20) Chrysene-d12, (25) Perylene-d12; System Monitoring Compounds (3) 2-Fluorophenol, (4) Phenol-d5, (5) Nitrobenzene-d5, (11) 2-Fluorobiphenyl, (16) 2,4,6-Tribromophenol, (22) p-Terphenyl-d14.

Target Compounds Qvalue

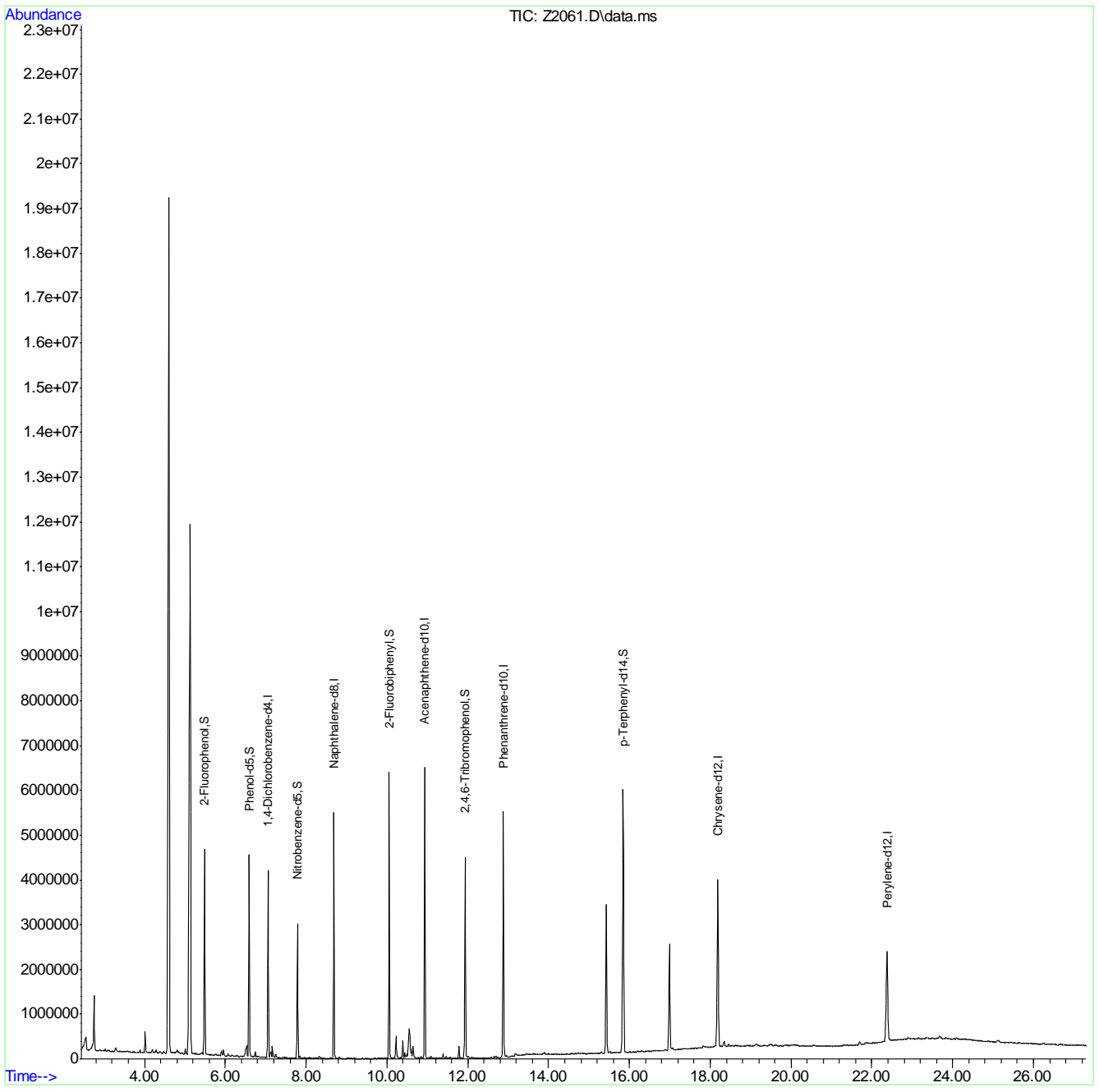
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.16
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\  
Data File : Z2061.D  
Acq On : 30 Jan 2013 7:27 pm  
Operator : MAIT  
Sample : C25941-6  
Misc : OP7407,EZ105,30.05,,,1,1,S  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 31 15:07:34 2013  
Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M  
Quant Title : SVOC Method SW 8270C or EPA625  
QLast Update : Thu Jan 31 15:04:04 2013  
Response via : Initial Calibration  
DataAcq Meth:ACQ\_BNA.M



8.1.6  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18814.D Vial: 9  
 Acq On : 30 Jan 2013 5:19 pm Operator: MAIT  
 Sample : C25941-7 Inst : Y  
 Misc : OP7407,EY883,30.07,,,1,2,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:20:13 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.093	152	309818	40.00	ppm	# 0.00
25) Naphthalene-d8	7.724	136	1163964	40.00	ppm	# 0.00
43) Acenaphthene-d10	9.949	164	711649	40.00	ppm	# 0.00
73) Phenanthrene-d10	11.773	188	1125891	40.00	ppm	# 0.00
84) Chrysene-d12	16.517	240	780066	40.00	ppm	#-0.02
93) Perylene-d12	19.850	264	511777	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.531	112	307705	27.93	ppm	0.02
Spiked Amount	75.000	Range 10 - 100	Recovery =	37.24%		
9) Phenol-d5	5.697	99	441564	29.58	ppm	0.00
Spiked Amount	75.000	Range 7 - 100	Recovery =	39.44%		
23) Nitrobenzene-d5	6.836	82	256825	17.87	ppm	0.00
Spiked Amount	50.000	Range 25 - 100	Recovery =	35.74%		
47) 2-Fluorobiphenyl	9.104	172	474993	19.11	ppm	0.00
Spiked Amount	50.000	Range 20 - 100	Recovery =	38.22%		
74) 2,4,6-Tribromophenol	10.939	330	65329	34.93	ppm	0.00
Spiked Amount	75.000	Range 25 - 115	Recovery =	46.57%		
86) p-Terphenyl-d14	14.341	244	512811	26.44	ppm	0.00
Spiked Amount	50.000	Range 35 - 130	Recovery =	52.88%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

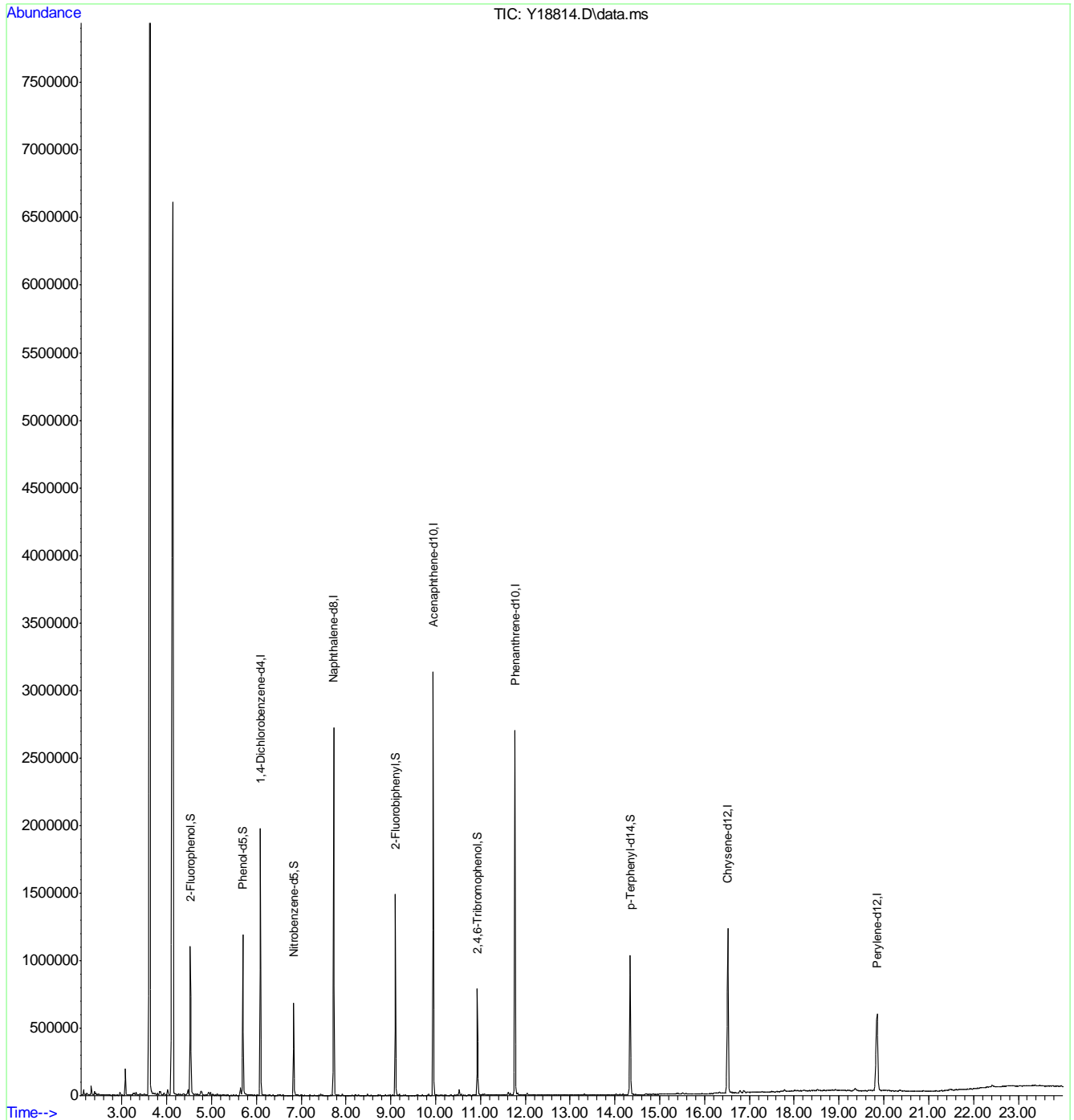
8.17  
8



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18814.D Vial: 9  
 Acq On : 30 Jan 2013 5:19 pm Operator: MAIT  
 Sample : C25941-7 Inst : Y  
 Misc : OP7407,EY883,30.07,,,1,2,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:20:13 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.1.7  
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\  
 Data File : Z2062.D  
 Acq On : 30 Jan 2013 8:03 pm  
 Operator : MAIT  
 Sample : C25941-8  
 Misc : OP7407,EZ105,30.02,,,1,1,S  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 31 15:08:11 2013  
 Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 15:04:04 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.053	152	822235	40.00	ppm	# 0.00
6) Naphthalene-d8	8.688	136	3386399	40.00	ppm	#-0.01
10) Acenaphthene-d10	10.937	164	2052322	40.00	ppm	-0.01
15) Phenanthrene-d10	12.881	188	3737058	40.00	ppm	-0.01
20) Chrysene-d12	18.186	240	3505524	40.00	ppm	#-0.02
25) Perylene-d12	22.369	264	2465850	40.00	ppm	#-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.482	112	1769137	61.22	ppm	0.01
Spiked Amount	75.000	Range	10 - 100	Recovery	=	81.63%
4) Phenol-d5	6.588	99	2426690	66.59	ppm	-0.01
Spiked Amount	75.000	Range	7 - 100	Recovery	=	88.79%
5) Nitrobenzene-d5	7.785	82	1475203	46.55	ppm	-0.01
Spiked Amount	50.000	Range	25 - 100	Recovery	=	93.10%
11) 2-Fluorobiphenyl	10.055	172	3004098	41.48	ppm	-0.01
Spiked Amount	50.000	Range	20 - 100	Recovery	=	82.96%
16) 2,4,6-Tribromophenol	11.936	330	692271	67.15	ppm	-0.01
Spiked Amount	75.000	Range	25 - 115	Recovery	=	89.53%
22) p-Terphenyl-d14	15.846	244	4641484	50.45	ppm	0.00
Spiked Amount	50.000	Range	35 - 130	Recovery	=	100.90%

Target Compounds Qvalue

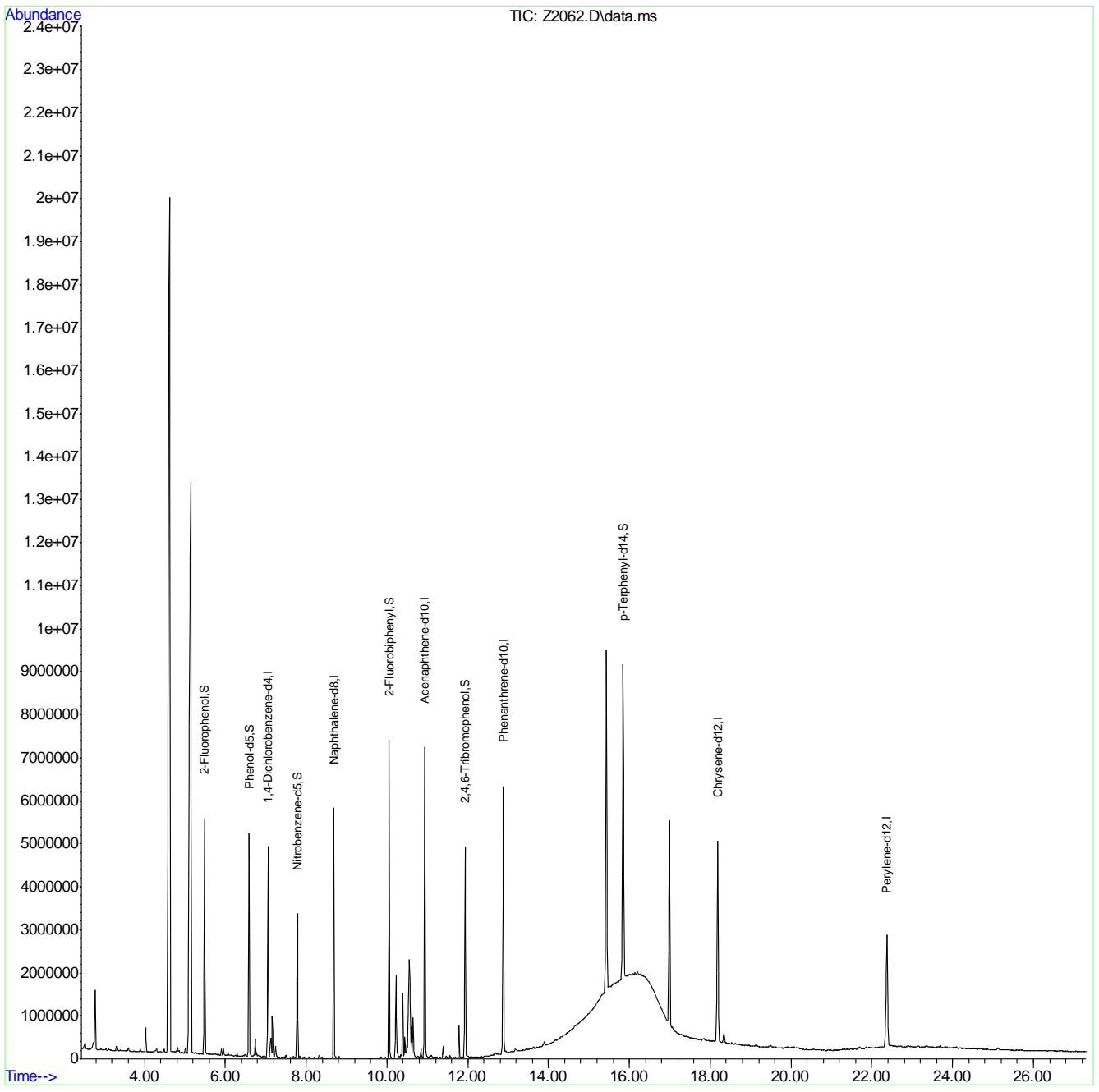
(#) = qualifier out of range (m) = manual integration (+) = signals summed

81.8  
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\  
Data File : Z2062.D  
Acq On : 30 Jan 2013 8:03 pm  
Operator : MAIT  
Sample : C25941-8  
Misc : OP7407,EZ105,30.02,,,1,1,S  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 31 15:08:11 2013  
Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M  
Quant Title : SVOC Method SW 8270C or EPA625  
QLast Update : Thu Jan 31 15:04:04 2013  
Response via : Initial Calibration  
DataAcq Meth:ACQ\_BNA.M



8.1.8  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18815.D Vial: 10
Acq On : 30 Jan 2013 5:51 pm Operator: MAIT
Sample : C25941-9 Inst : Y
Misc : OP7407,EY883,30.02,,,1,10,S,pah Multiplr: 1.00
Quant Results File: EY880\_Terpineol.RES
Quant Time: Jan 31 13:21:19 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 13:10:40 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with 7 columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, 25) Naphthalene-d8, 43) Acenaphthene-d10, 73) Phenanthrene-d10, 84) Chrysene-d12, 93) Perylene-d12 and System Monitoring Compounds (5) 2-Fluorophenol, 9) Phenol-d5, 23) Nitrobenzene-d5, 47) 2-Fluorobiphenyl, 74) 2,4,6-Tribromophenol, 86) p-Terphenyl-d14 with associated recovery percentages.

Target Compounds Qvalue

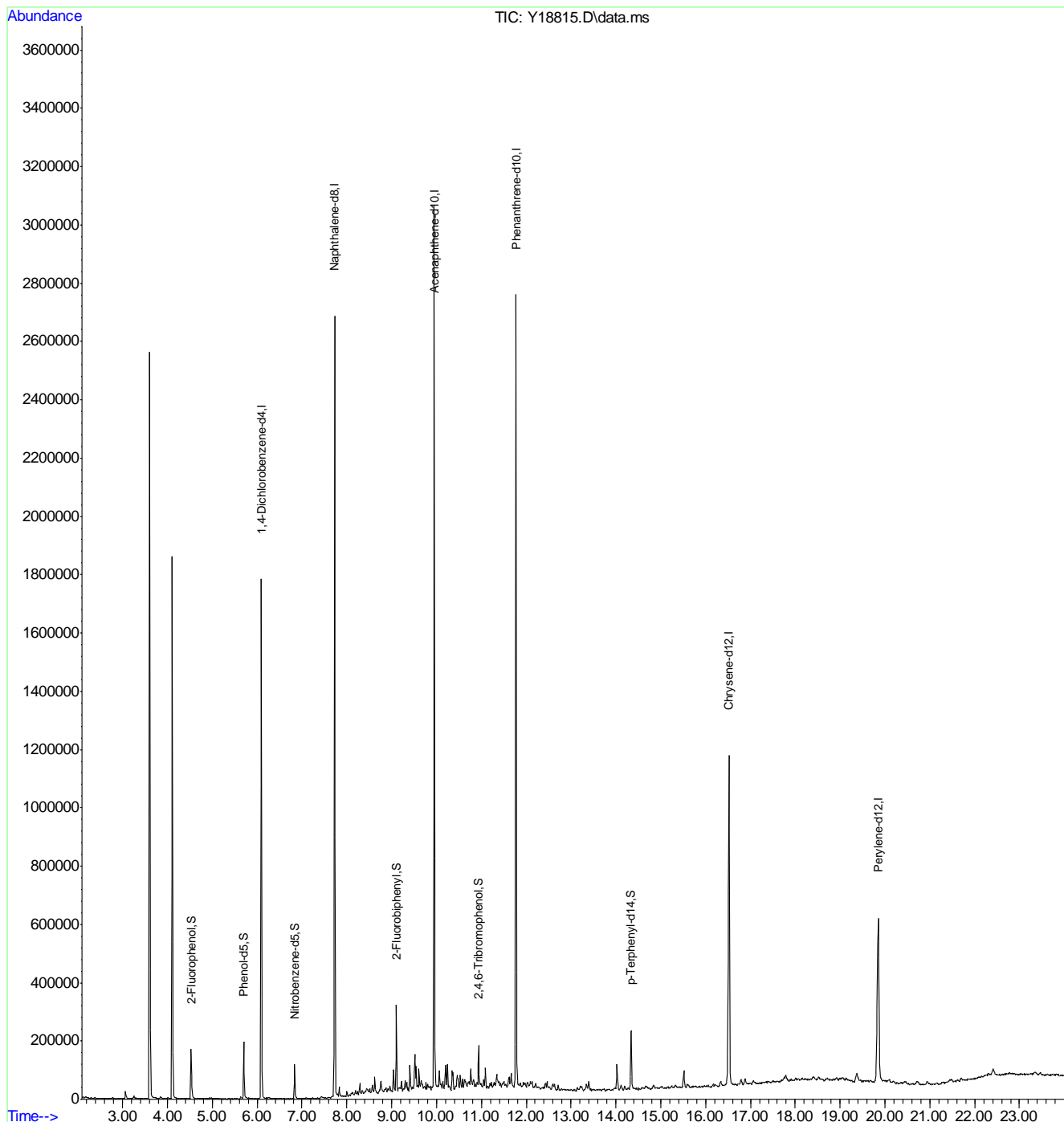
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.19
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18815.D Vial: 10  
 Acq On : 30 Jan 2013 5:51 pm Operator: MAIT  
 Sample : C25941-9 Inst : Y  
 Misc : OP7407,EY883,30.02,,,1,10,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:21:19 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.1.9  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18816.D Vial: 11
Acq On : 30 Jan 2013 6:23 pm Operator: MAIT
Sample : C25941-10 Inst : Y
Misc : OP7407,EY883,30.10,,,1,2,S,pah Multiplr: 1.00
Quant Results File: EY880\_Terpineol.RES
Quant Time: Jan 31 13:34:42 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 13:10:40 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, 25) Naphthalene-d8, 43) Acenaphthene-d10, 73) Phenanthrene-d10, 84) Chrysene-d12, 93) Perylene-d12 and System Monitoring Compounds (5) 2-Fluorophenol, 9) Phenol-d5, 23) Nitrobenzene-d5, 47) 2-Fluorobiphenyl, 74) 2,4,6-Tribromophenol, 86) p-Terphenyl-d14 with associated recovery percentages.

Target Compounds Qvalue

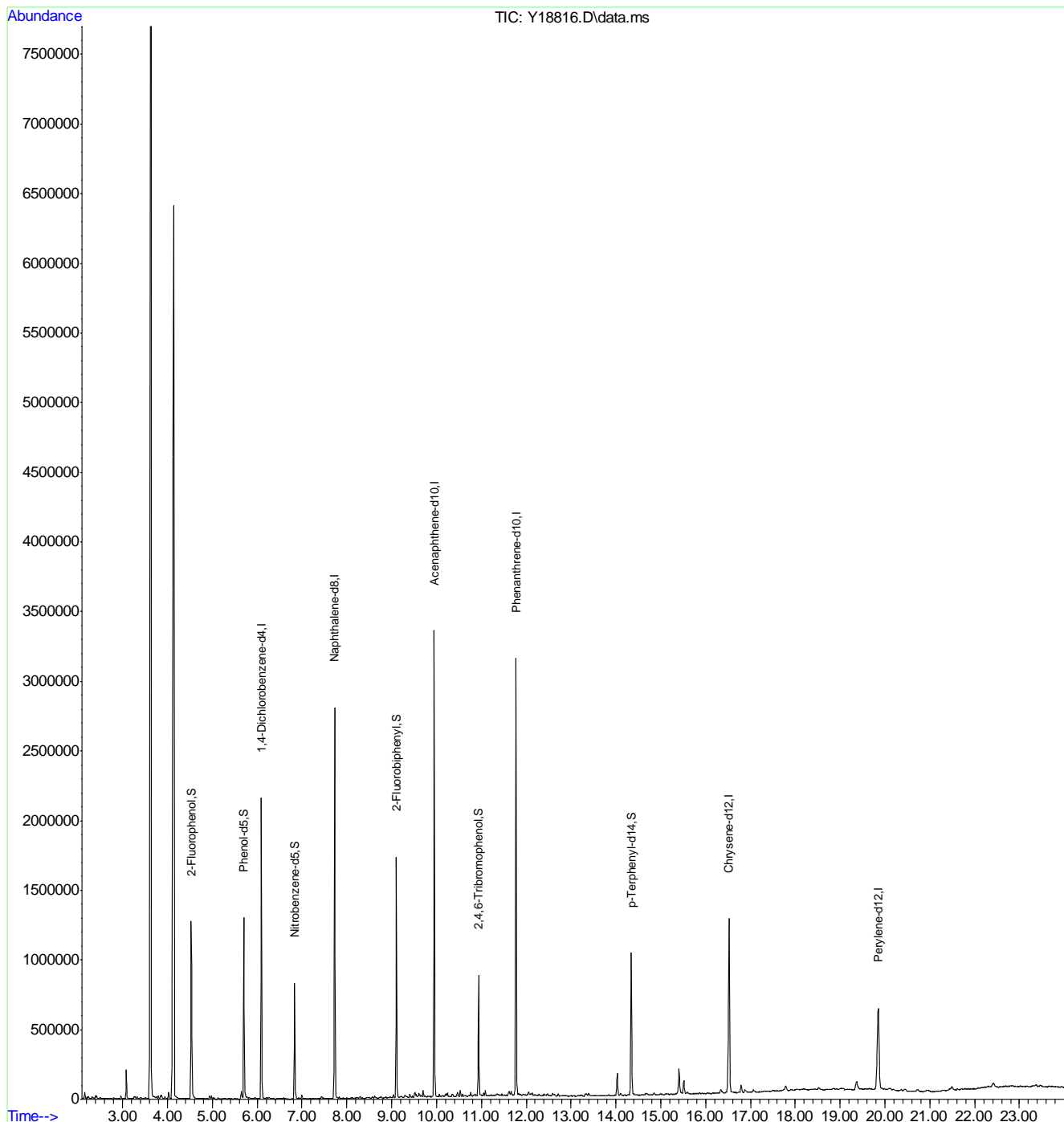
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.10 8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18816.D Vial: 11  
 Acq On : 30 Jan 2013 6:23 pm Operator: MAIT  
 Sample : C25941-10 Inst : Y  
 Misc : OP7407,EY883,30.10,,,1,2,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:34:42 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.1.10  
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\
Data File : Z2063.D
Acq On : 30 Jan 2013 8:39 pm
Operator : MAIT
Sample : C25941-11
Misc : OP7407,EZ105,30.03,,,1,1,S
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 31 15:08:44 2013
Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 15:04:04 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with 7 columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards like 1) 1,4-Dichlorobenzene-d4, 6) Naphthalene-d8, etc.

Table with 7 columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include System Monitoring Compounds like 3) 2-Fluorophenol, 4) Phenol-d5, etc.

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

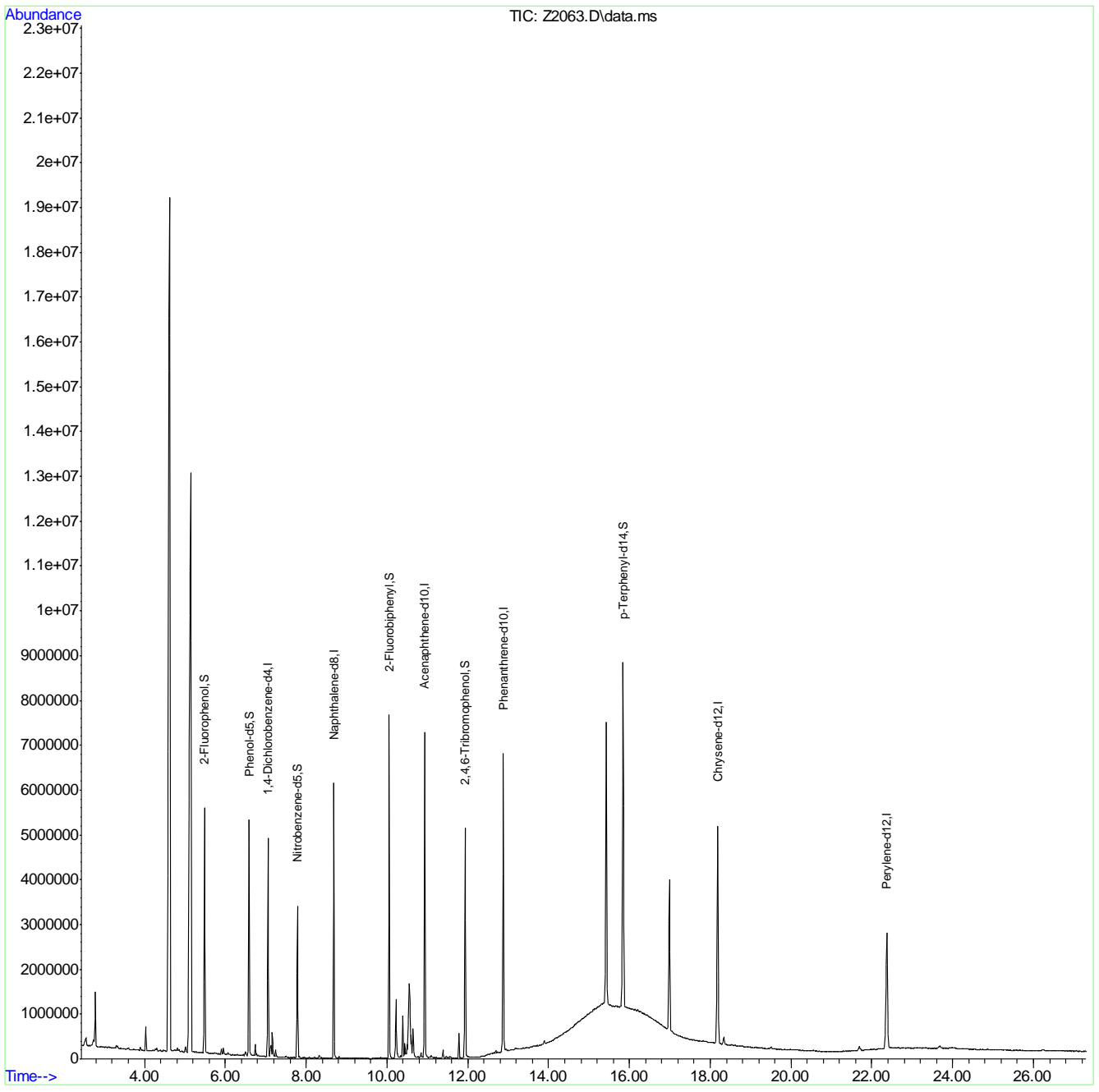
8.1.11
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\  
Data File : Z2063.D  
Acq On : 30 Jan 2013 8:39 pm  
Operator : MAIT  
Sample : C25941-11  
Misc : OP7407,EZ105,30.03,,,1,1,S  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 31 15:08:44 2013  
Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M  
Quant Title : SVOC Method SW 8270C or EPA625  
QLast Update : Thu Jan 31 15:04:04 2013  
Response via : Initial Calibration  
DataAcq Meth:ACQ\_BNA.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\  
 Data File : Z2064.D  
 Acq On : 30 Jan 2013 9:14 pm  
 Operator : MAIT  
 Sample : C25941-12  
 Misc : OP7407,EZ105,30.12,,,1,1,S  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 31 15:11:12 2013  
 Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 15:04:04 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.053	152	739388	40.00	ppm	# 0.00
6) Naphthalene-d8	8.688	136	3027227	40.00	ppm	#-0.01
10) Acenaphthene-d10	10.937	164	1862818	40.00	ppm	-0.01
15) Phenanthrene-d10	12.881	188	3394617	40.00	ppm	-0.01
20) Chrysene-d12	18.181	240	3028406	40.00	ppm	#-0.02
25) Perylene-d12	22.375	264	2246652	40.00	ppm	#-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.482	112	1404110	54.03	ppm	0.01
Spiked Amount	75.000	Range	10 - 100	Recovery	=	72.04%
4) Phenol-d5	6.588	99	1932525	58.97	ppm	-0.01
Spiked Amount	75.000	Range	7 - 100	Recovery	=	78.63%
5) Nitrobenzene-d5	7.785	82	1154709	40.52	ppm	-0.01
Spiked Amount	50.000	Range	25 - 100	Recovery	=	81.04%
11) 2-Fluorobiphenyl	10.055	172	2454878	37.35	ppm	-0.01
Spiked Amount	50.000	Range	20 - 100	Recovery	=	74.70%
16) 2,4,6-Tribromophenol	11.936	330	572747	61.82	ppm	-0.01
Spiked Amount	75.000	Range	25 - 115	Recovery	=	82.43%
22) p-Terphenyl-d14	15.841	244	3861303	48.58	ppm	-0.01
Spiked Amount	50.000	Range	35 - 130	Recovery	=	97.16%

Target Compounds Qvalue

-----

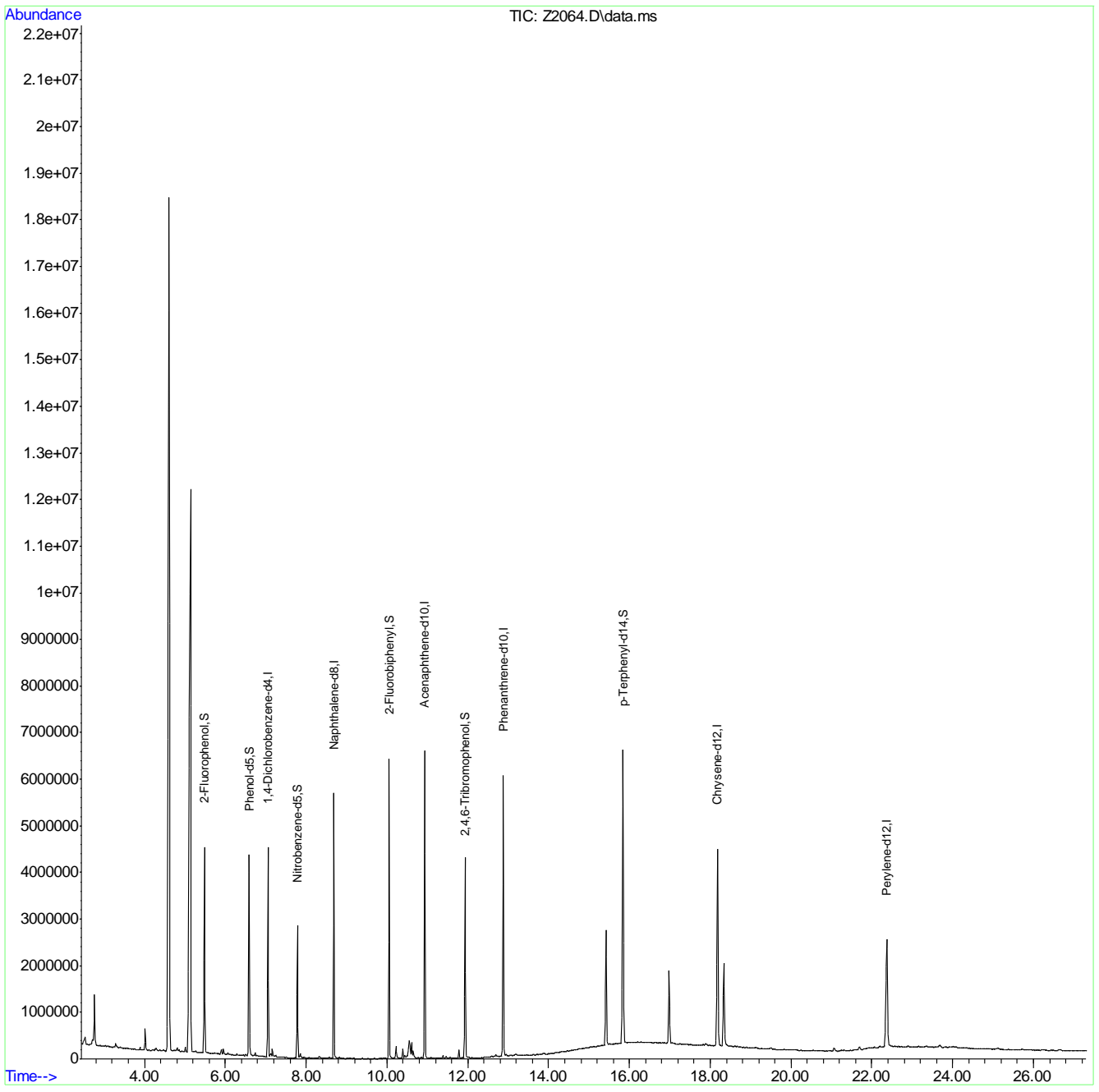
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.12  
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\  
Data File : Z2064.D  
Acq On : 30 Jan 2013 9:14 pm  
Operator : MAIT  
Sample : C25941-12  
Misc : OP7407,EZ105,30.12,,,1,1,S  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 31 15:11:12 2013  
Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M  
Quant Title : SVOC Method SW 8270C or EPA625  
QLast Update : Thu Jan 31 15:04:04 2013  
Response via : Initial Calibration  
DataAcq Meth:ACQ\_BNA.M



8.1.12  
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\
Data File : Z2065.D
Acq On : 30 Jan 2013 9:50 pm
Operator : MAIT
Sample : C25941-13
Misc : OP7407,EZ105,30.07,,,1,1,S
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 31 15:11:46 2013
Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 15:04:04 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with 7 columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, (6) Naphthalene-d8, (10) Acenaphthene-d10, (15) Phenanthrene-d10, (20) Chrysene-d12, (25) Perylene-d12, and System Monitoring Compounds (3) 2-Fluorophenol, (4) Phenol-d5, (5) Nitrobenzene-d5, (11) 2-Fluorobiphenyl, (16) 2,4,6-Tribromophenol, (22) p-Terphenyl-d14.

Target Compounds Qvalue

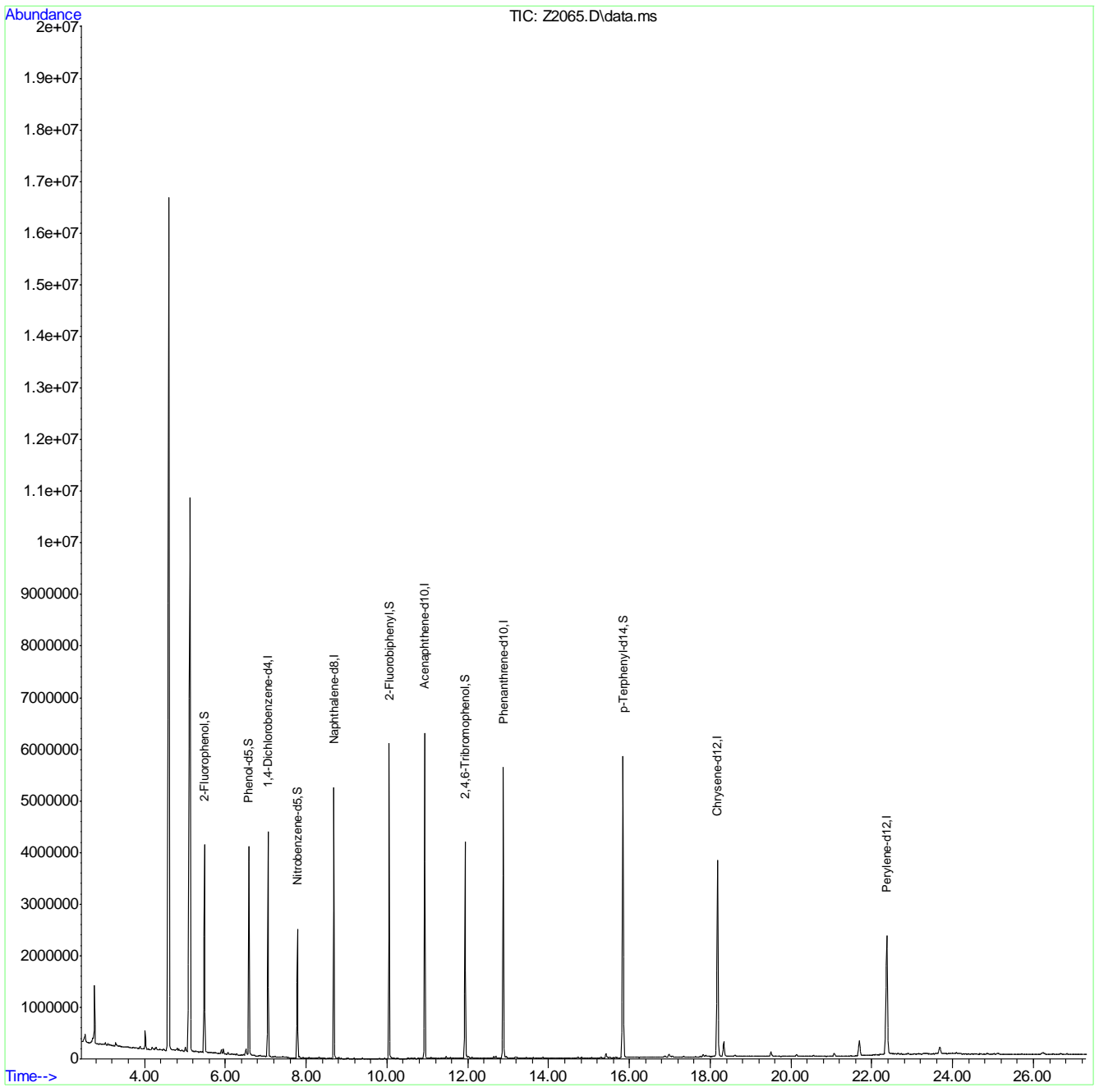
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.13
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Z130130\  
Data File : Z2065.D  
Acq On : 30 Jan 2013 9:50 pm  
Operator : MAIT  
Sample : C25941-13  
Misc : OP7407,EZ105,30.07,,,1,1,S  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 31 15:11:46 2013  
Quant Method : C:\msdchem\1\methods\EZ104\_PAH.M  
Quant Title : SVOC Method SW 8270C or EPA625  
QLast Update : Thu Jan 31 15:04:04 2013  
Response via : Initial Calibration  
DataAcq Meth:ACQ\_BNA.M



8.1.13  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18827.D Vial: 22
Acq On : 31 Jan 2013 12:18 am Operator: MAIT
Sample : C25941-14 Inst : Y
Misc : OP7407,EY883,30.05,,,1,1,S,pah Multiplr: 1.00
Quant Results File: EY880\_Terpineol.RES
Quant Time: Jan 31 13:52:36 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 13:10:40 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, 25) Naphthalene-d8, 43) Acenaphthene-d10, 73) Phenanthrene-d10, 84) Chrysene-d12, 93) Perylene-d12; System Monitoring Compounds (5) 2-Fluorophenol, 9) Phenol-d5, 23) Nitrobenzene-d5, 47) 2-Fluorobiphenyl, 74) 2,4,6-Tribromophenol, 86) p-Terphenyl-d14; Target Compounds (92) Bis(2-ethylhexyl) phth...

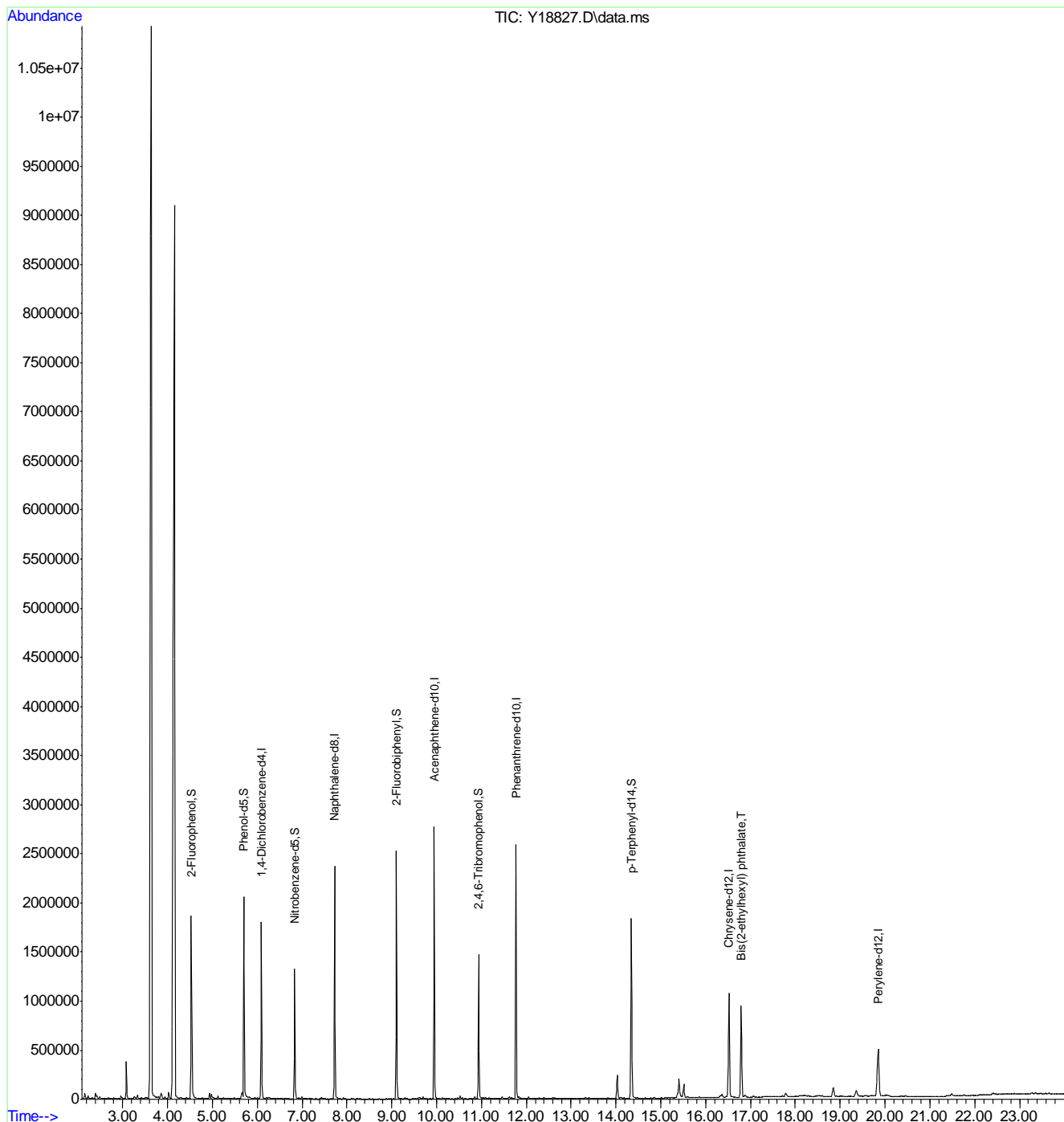
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.14
8

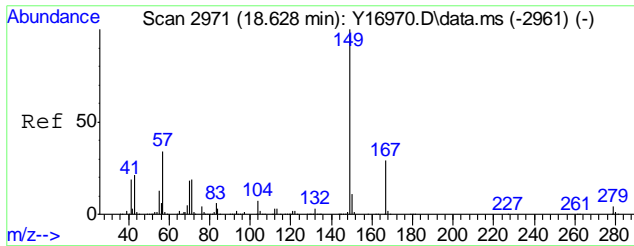
Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18827.D Vial: 22  
Acq On : 31 Jan 2013 12:18 am Operator: MAIT  
Sample : C25941-14 Inst : Y  
Misc : OP7407,EY883,30.05,,,1,1,S,pah Multiplr: 1.00  
Quant Results File: EY880\_Terpineol.RES  
Quant Time: Jan 31 13:52:36 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
Quant Title : SVOC Method SW 8270C or EPA625  
QLast Update : Thu Jan 31 13:10:40 2013  
Response via : Initial Calibration  
DataAcq Meth:ACQ\_BNA.M

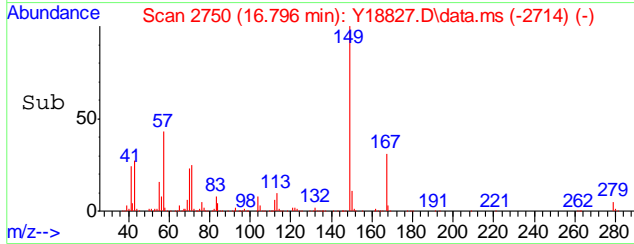
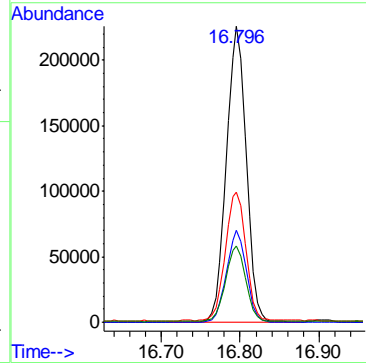
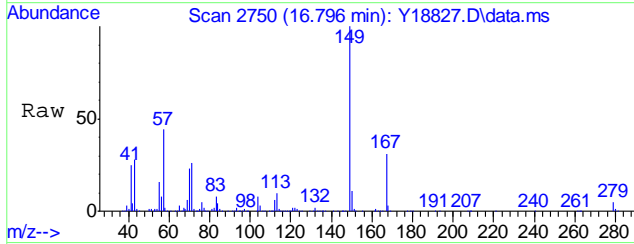


8.1.14  
8



#92  
 Bis(2-ethylhexyl) phthalate  
 Concen: 21.80 ppm  
 RT: 16.796 min Scan# 2750  
 Delta R.T. -0.005 min  
 Lab File: Y18827.D  
 Acq: 31 Jan 2013 12:18 am

Tgt Ion	Ratio	Lower	Upper
149	100		
167	30.8	19.3	35.8
57	44.4	18.8	34.8#
71	25.6	9.7	18.1#



8.1.14  
8



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18821.D Vial: 16
Acq On : 30 Jan 2013 9:04 pm Operator: MAIT
Sample : C25941-15 Inst : Y
Misc : OP7411,EY883,30.07,,,1,1,S,pah Multiplr: 1.00
Quant Results File: EY880\_Terpineol.RES
Quant Time: Jan 31 13:44:13 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 13:10:40 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, 25) Naphthalene-d8, 43) Acenaphthene-d10, 73) Phenanthrene-d10, 84) Chrysene-d12, 93) Perylene-d12; System Monitoring Compounds (5) 2-Fluorophenol, 9) Phenol-d5, 23) Nitrobenzene-d5, 47) 2-Fluorobiphenyl, 74) 2,4,6-Tribromophenol, 86) p-Terphenyl-d14; Target Compounds (92) Bis(2-ethylhexyl) phth...

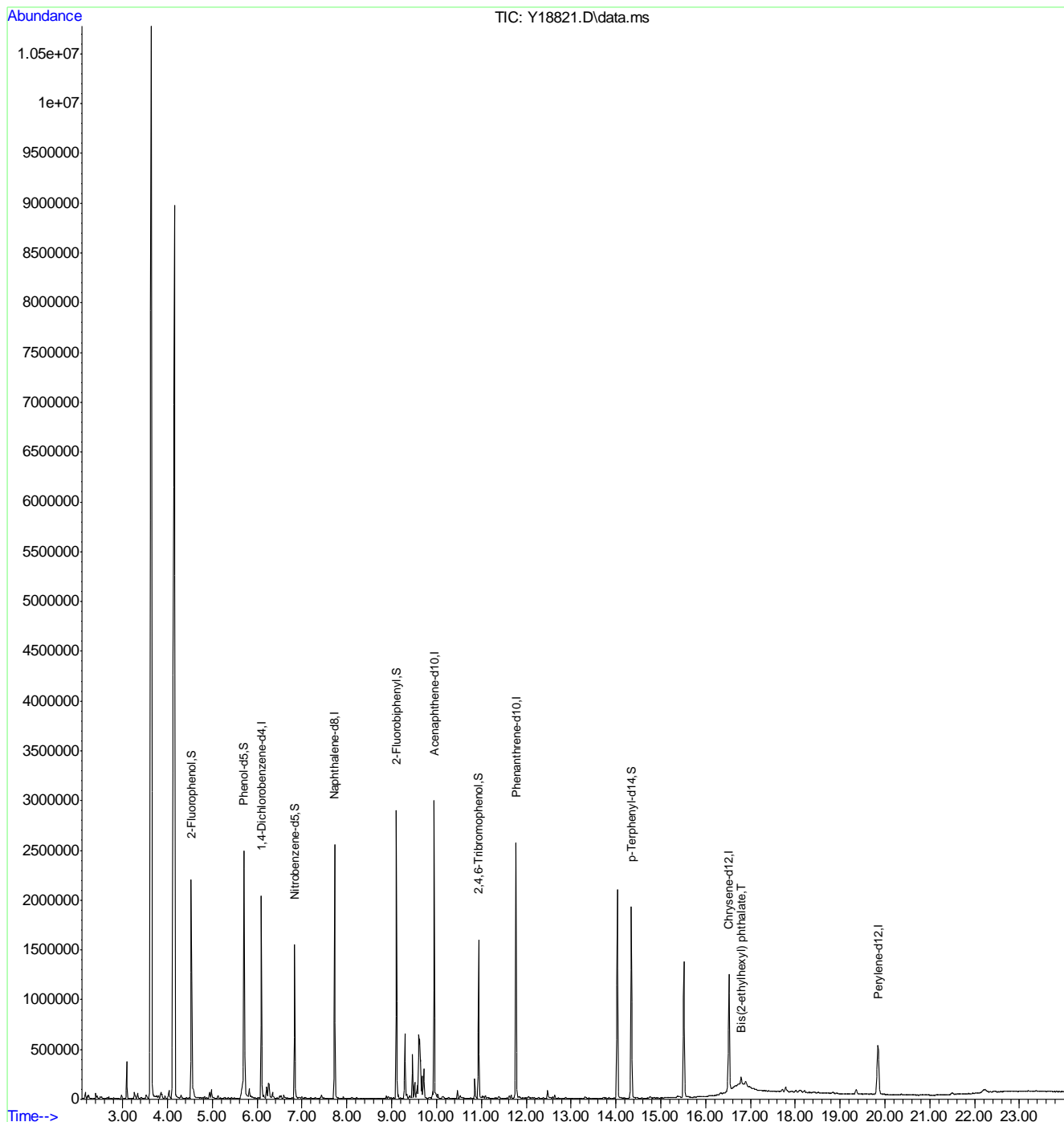
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.15 8

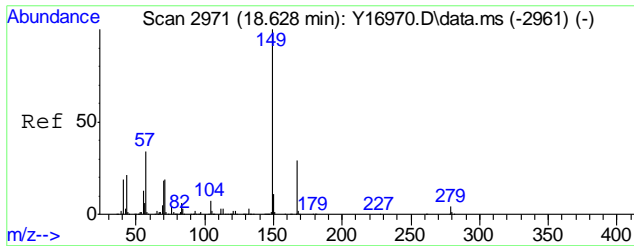
Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18821.D Vial: 16  
 Acq On : 30 Jan 2013 9:04 pm Operator: MAIT  
 Sample : C25941-15 Inst : Y  
 Misc : OP7411,EY883,30.07,,,1,1,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:44:13 2013

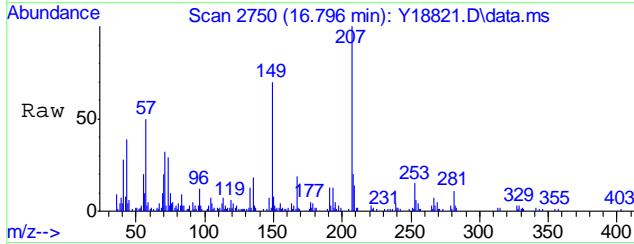
Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



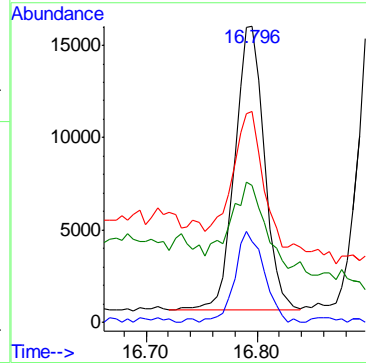
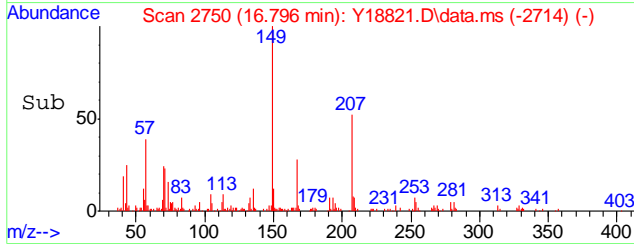
8.1.15  
8



#92  
 Bis(2-ethylhexyl) phthalate  
 Concen: 1.42 ppm  
 RT: 16.796 min Scan# 2750  
 Delta R.T. -0.005 min  
 Lab File: Y18821.D  
 Acq: 30 Jan 2013 9:04 pm



Tgt Ion	Ratio	Lower	Upper
149	100		
167	31.9	19.3	35.8
57	105.8	18.8	34.8#
71	67.8	9.7	18.1#



8.1.15  
 8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18810.D Vial: 5  
 Acq On : 30 Jan 2013 3:11 pm Operator: MAIT  
 Sample : C25941-16 Inst : Y  
 Misc : OP7411,EY883,30.18,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:12:32 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.093	152	316393	40.00	ppm	# 0.00
25) Naphthalene-d8	7.724	136	1185424	40.00	ppm	# 0.00
43) Acenaphthene-d10	9.949	164	719948	40.00	ppm	# 0.00
73) Phenanthrene-d10	11.773	188	1147983	40.00	ppm	# 0.00
84) Chrysene-d12	16.517	240	807502	40.00	ppm	#-0.02
93) Perylene-d12	19.844	264	546833	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.537	112	712178	63.29	ppm	0.02
Spiked Amount	75.000	Range 10 - 100	Recovery =	84.39%		
9) Phenol-d5	5.703	99	1012623	66.41	ppm	0.00
Spiked Amount	75.000	Range 7 - 100	Recovery =	88.55%		
23) Nitrobenzene-d5	6.836	82	598058	40.75	ppm	0.00
Spiked Amount	50.000	Range 25 - 100	Recovery =	81.50%		
47) 2-Fluorobiphenyl	9.104	172	1063846	42.31	ppm	0.00
Spiked Amount	50.000	Range 20 - 100	Recovery =	84.62%		
74) 2,4,6-Tribromophenol	10.939	330	140705	73.79	ppm	0.00
Spiked Amount	75.000	Range 25 - 115	Recovery =	98.39%		
86) p-Terphenyl-d14	14.346	244	1108120	55.20	ppm	0.00
Spiked Amount	50.000	Range 35 - 130	Recovery =	110.40%		
Target Compounds						
66) Diethyl phthalate	10.527	149	26630	1.05	ppm	95
92) Bis(2-ethylhexyl) phth...	16.796	149	91646	4.25	ppm	# 77

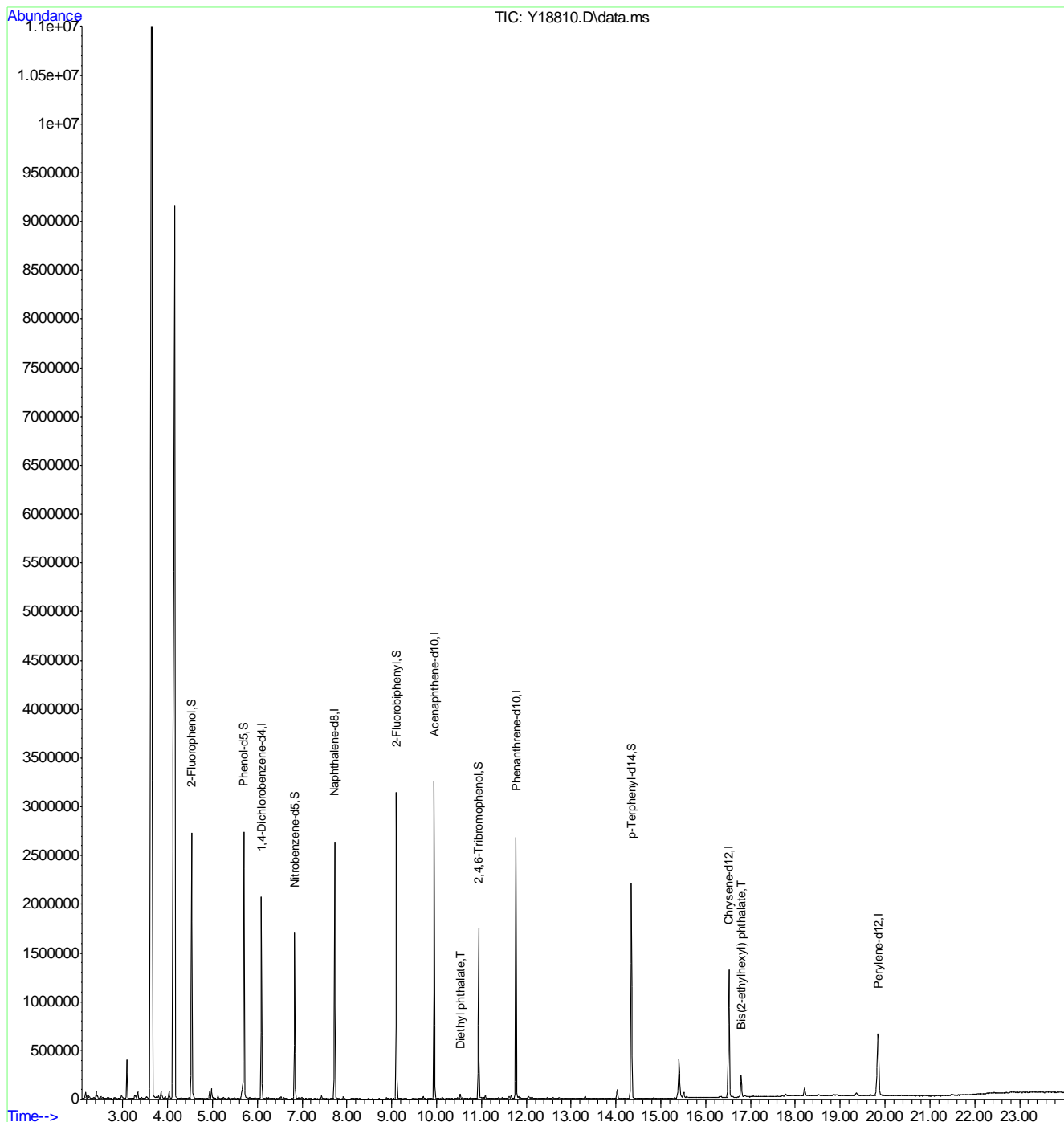
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.16  
8

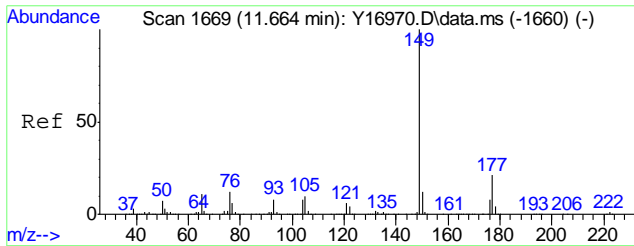
Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18810.D Vial: 5  
 Acq On : 30 Jan 2013 3:11 pm Operator: MAIT  
 Sample : C25941-16 Inst : Y  
 Misc : OP7411,EY883,30.18,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:12:32 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

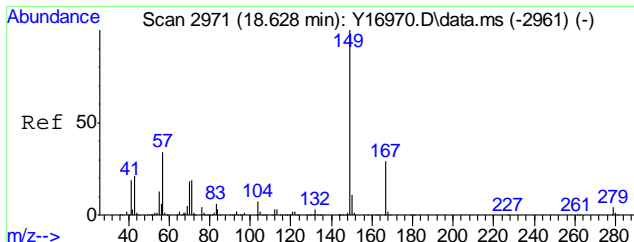
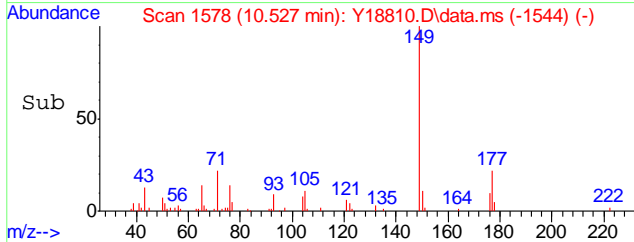
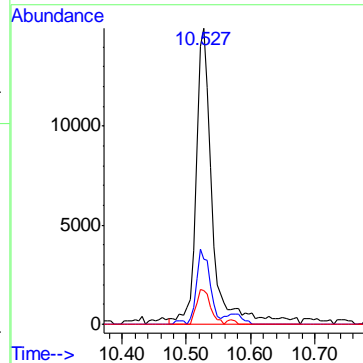
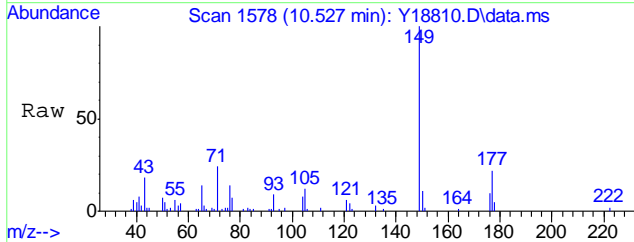


8.1.16  
8



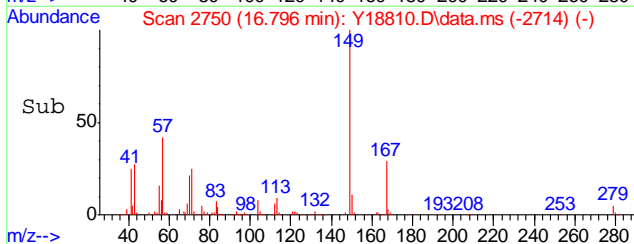
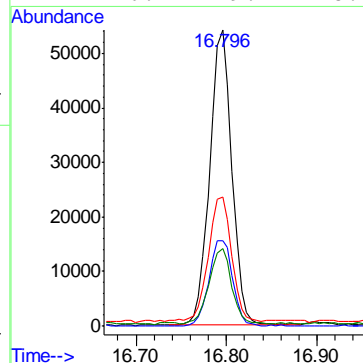
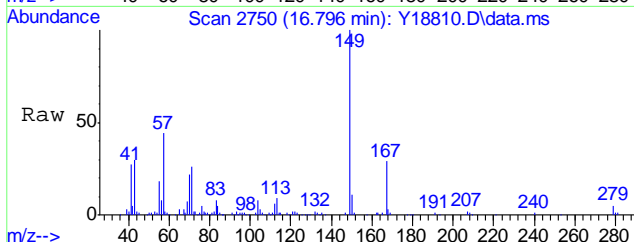
#66  
 Diethyl phthalate  
 Concen: 1.05 ppm  
 RT: 10.527 min Scan# 1578  
 Delta R.T. -0.016 min  
 Lab File: Y18810.D  
 Acq: 30 Jan 2013 3:11 pm

Tgt Ion	Resp	Lower	Upper
149	26630	100	
177	21.0	13.4	25.0
150	10.1	8.6	16.0



#92  
 Bis(2-ethylhexyl) phthalate  
 Concen: 4.25 ppm  
 RT: 16.796 min Scan# 2750  
 Delta R.T. -0.005 min  
 Lab File: Y18810.D  
 Acq: 30 Jan 2013 3:11 pm

Tgt Ion	Resp	Lower	Upper
149	91646	100	
167	31.1	19.3	35.8
57	45.4	18.8	34.8#
71	26.1	9.7	18.1#



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18817.D Vial: 12
Acq On : 30 Jan 2013 6:55 pm Operator: MAIT
Sample : C25941-17 Inst : Y
Misc : OP7411,EY883,30.02,,,1,10,S,pah Multiplr: 1.00
Quant Results File: EY880\_Terpineol.RES
Quant Time: Jan 31 13:36:04 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 13:10:40 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, 25) Naphthalene-d8, 43) Acenaphthene-d10, 73) Phenanthrene-d10, 84) Chrysene-d12, 93) Perylene-d12 and System Monitoring Compounds (5) 2-Fluorophenol, 9) Phenol-d5, 23) Nitrobenzene-d5, 47) 2-Fluorobiphenyl, 74) 2,4,6-Tribromophenol, 86) p-Terphenyl-d14 with associated recovery percentages.

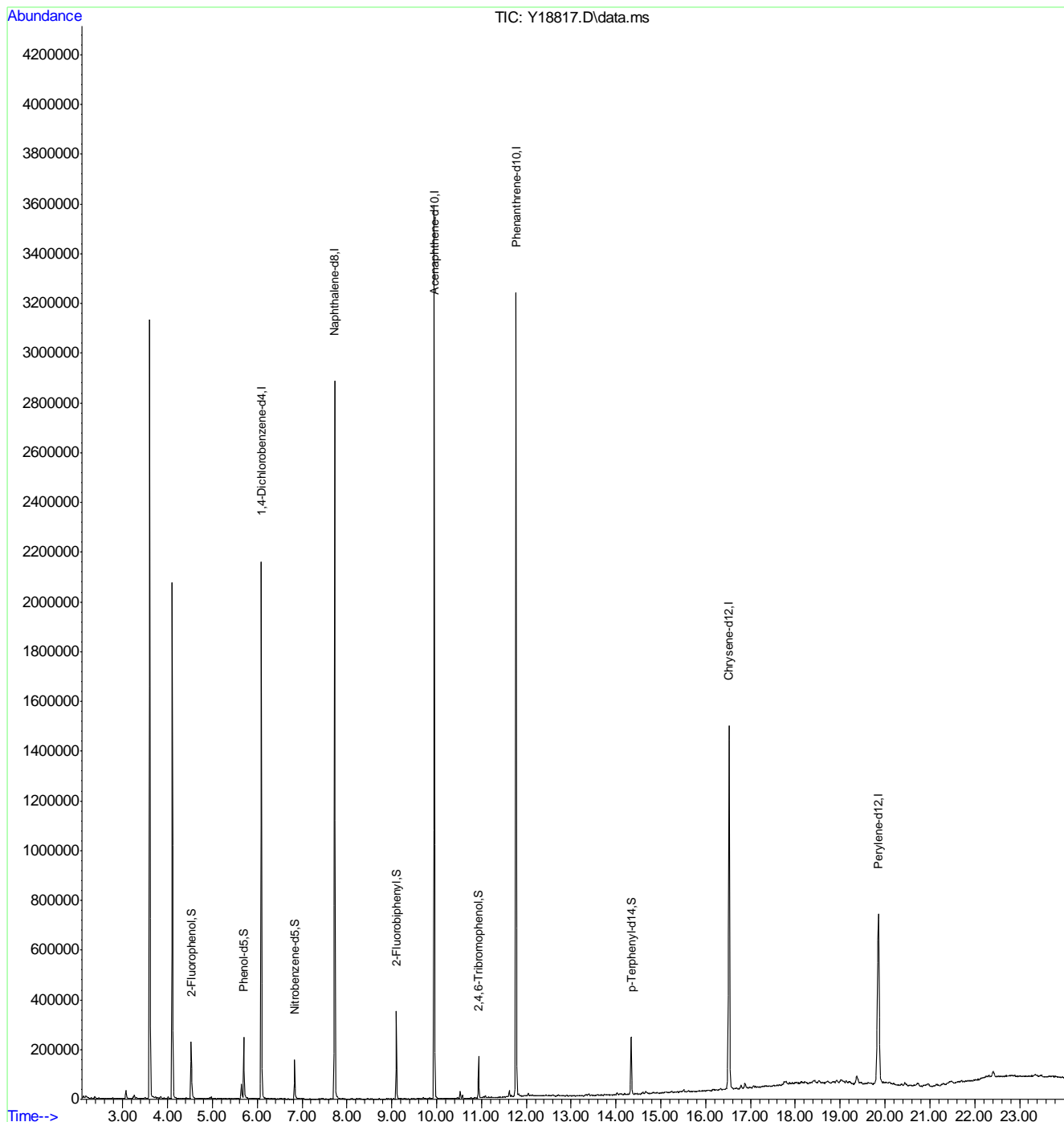
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.17 8

Quantitation Report (QT Reviewed)  
 Data File : C:\msdchem\1\DATA\Y130130\Y18817.D Vial: 12  
 Acq On : 30 Jan 2013 6:55 pm Operator: MAIT  
 Sample : C25941-17 Inst : Y  
 Misc : OP7411,EY883,30.02,,,1,10,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:36:04 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.1.17  
8



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18811.D Vial: 6  
 Acq On : 30 Jan 2013 3:43 pm Operator: MAIT  
 Sample : C25941-18 Inst : Y  
 Misc : OP7411,EY883,30.08,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:14:16 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.093	152	293838	40.00	ppm	# 0.00
25) Naphthalene-d8	7.724	136	1089099	40.00	ppm	# 0.00
43) Acenaphthene-d10	9.949	164	669144	40.00	ppm	# 0.00
73) Phenanthrene-d10	11.773	188	1050620	40.00	ppm	# 0.00
84) Chrysene-d12	16.517	240	705423	40.00	ppm	#-0.02
93) Perylene-d12	19.844	264	479159	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.536	112	624122	59.72	ppm	0.02
Spiked Amount	75.000	Range 10 - 100	Recovery =	79.63%		
9) Phenol-d5	5.702	99	885565	62.54	ppm	0.00
Spiked Amount	75.000	Range 7 - 100	Recovery =	83.39%		
23) Nitrobenzene-d5	6.836	82	526198	38.60	ppm	0.00
Spiked Amount	50.000	Range 25 - 100	Recovery =	77.20%		
47) 2-Fluorobiphenyl	9.104	172	948377	40.58	ppm	0.00
Spiked Amount	50.000	Range 20 - 100	Recovery =	81.16%		
74) 2,4,6-Tribromophenol	10.939	330	128719	73.76	ppm	0.00
Spiked Amount	75.000	Range 25 - 115	Recovery =	98.35%		
86) p-Terphenyl-d14	14.346	244	974309	55.56	ppm	0.00
Spiked Amount	50.000	Range 35 - 130	Recovery =	111.12%		

Target Compounds Qvalue

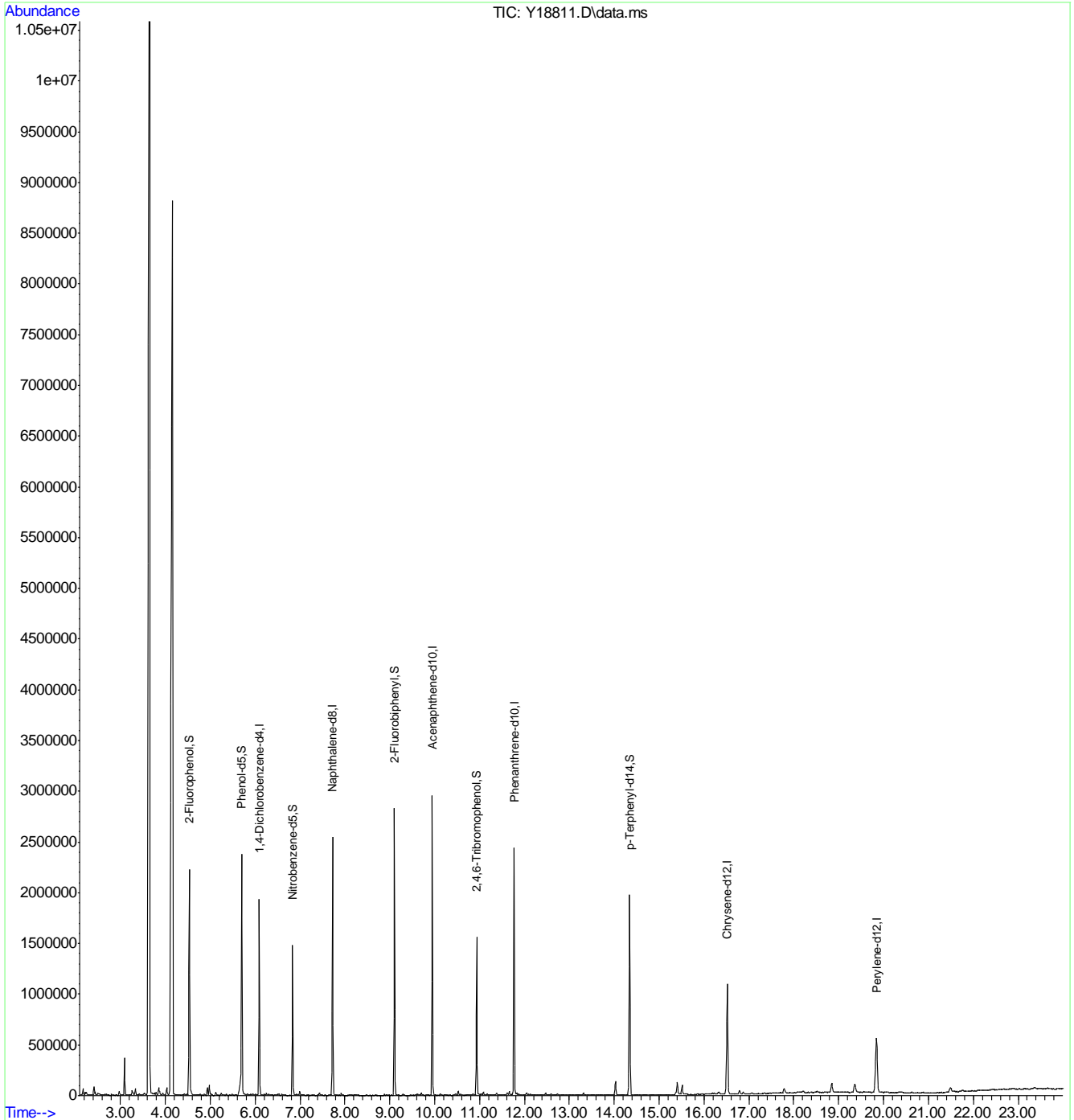
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.18  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18811.D Vial: 6  
 Acq On : 30 Jan 2013 3:43 pm Operator: MAIT  
 Sample : C25941-18 Inst : Y  
 Misc : OP7411,EY883,30.08,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:14:16 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.1.18  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18812.D Vial: 7
Acq On : 30 Jan 2013 4:15 pm Operator: MAIT
Sample : C25941-19 Inst : Y
Misc : OP7411,EY883,30.00,,,1,1,S,pah Multiplr: 1.00
Quant Results File: EY880\_Terpineol.RES
Quant Time: Jan 31 13:15:42 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Thu Jan 31 13:10:40 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with 7 columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, 25) Naphthalene-d8, 43) Acenaphthene-d10, 73) Phenanthrene-d10, 84) Chrysenes-d12, 93) Perylene-d12 and System Monitoring Compounds (5) 2-Fluorophenol, 9) Phenol-d5, 23) Nitrobenzene-d5, 47) 2-Fluorobiphenyl, 74) 2,4,6-Tribromophenol, 86) p-Terphenyl-d14 with associated recovery percentages.

Target Compounds Qvalue

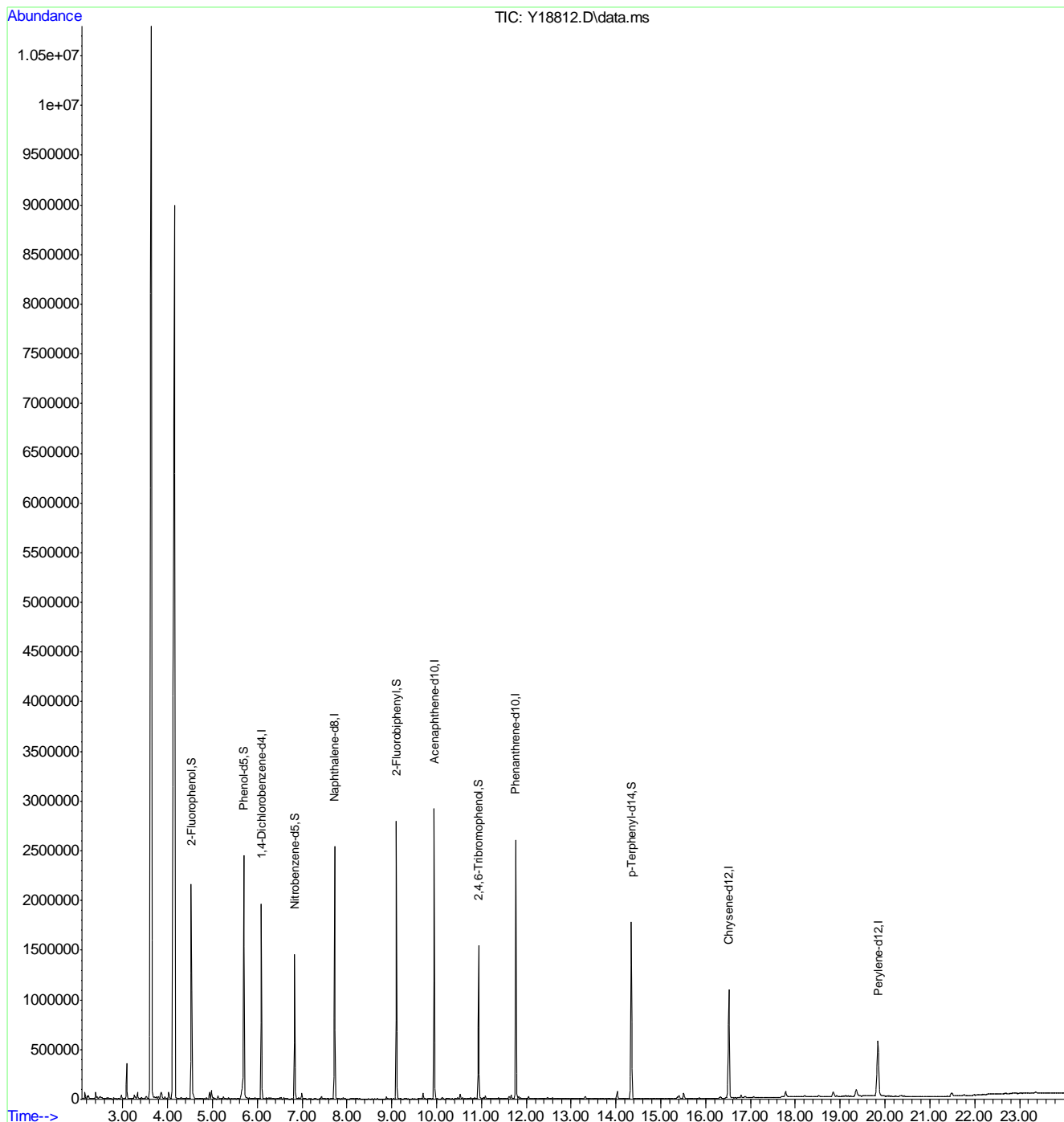
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.19 8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130130\Y18812.D Vial: 7  
 Acq On : 30 Jan 2013 4:15 pm Operator: MAIT  
 Sample : C25941-19 Inst : Y  
 Misc : OP7411,EY883,30.00,,,1,1,S,pah Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 31 13:15:42 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Thu Jan 31 13:10:40 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.1.19  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130129\Y18783.D Vial: 14
Acq On : 30 Jan 2013 12:20 am Operator: MAIT
Sample : C25941-20 Inst : Y
Misc : OP7411,EY882,30.00,,,1,1,S Multiplr: 1.00
Quant Results File: EY880\_Terpineol.RES
Quant Time: Jan 30 15:16:18 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M
Quant Title : SVOC Method SW 8270C or EPA625
QLast Update : Wed Jan 30 15:01:21 2013
Response via : Initial Calibration
DataAcq Meth:ACQ\_BNA.M

Table with 7 columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Internal Standards (1) 1,4-Dichlorobenzene-d4, 25) Naphthalene-d8, 43) Acenaphthene-d10, 73) Phenanthrene-d10, 84) Chrysene-d12, 93) Perylene-d12 and System Monitoring Compounds (5) 2-Fluorophenol, 9) Phenol-d5, 23) Nitrobenzene-d5, 47) 2-Fluorobiphenyl, 74) 2,4,6-Tribromophenol, 86) p-Terphenyl-d14 with associated recovery percentages.

Target Compounds Qvalue

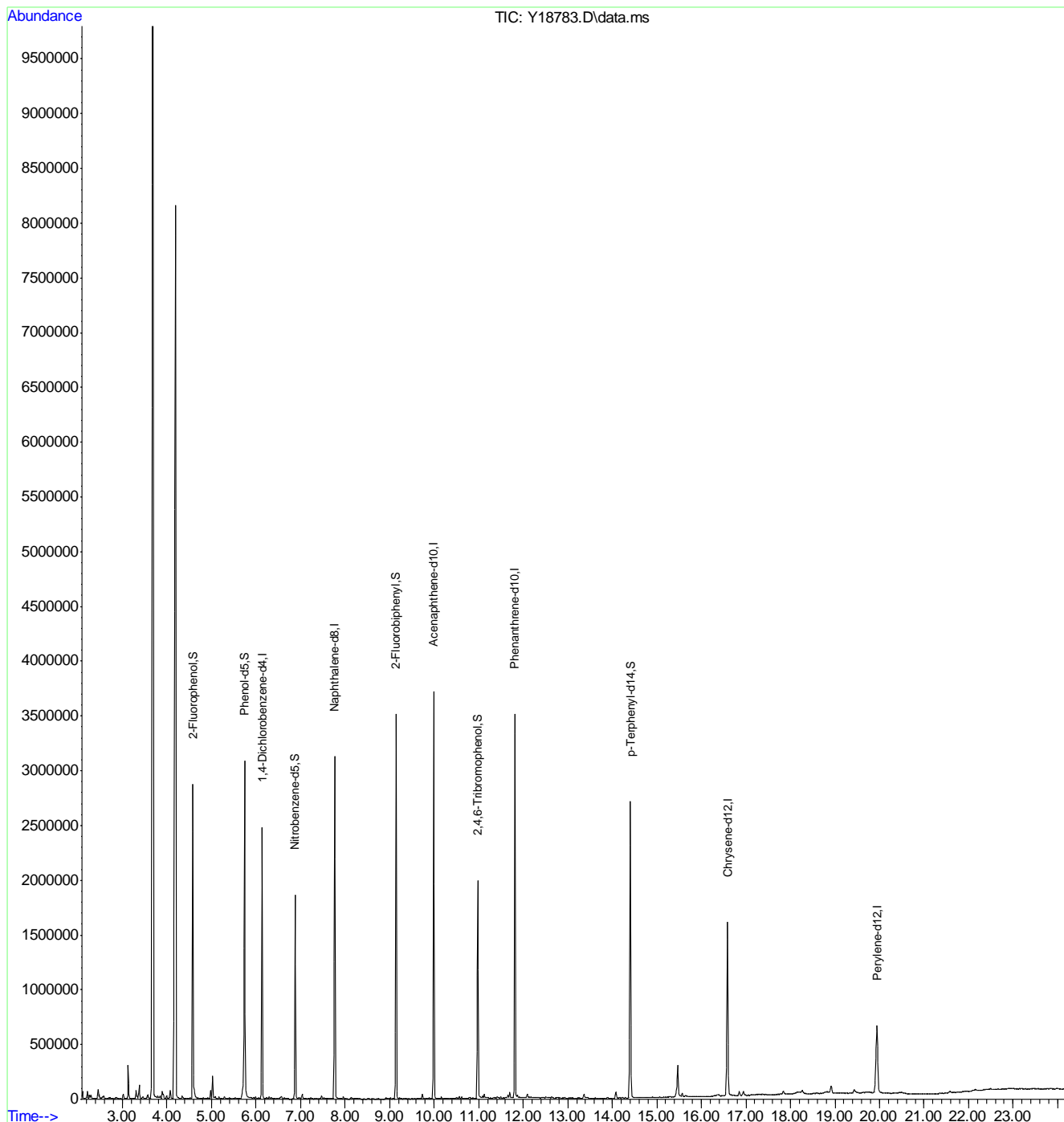
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.20 8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130129\Y18783.D Vial: 14  
 Acq On : 30 Jan 2013 12:20 am Operator: MAIT  
 Sample : C25941-20 Inst : Y  
 Misc : OP7411,EY882,30.00,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 30 15:16:18 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Wed Jan 30 15:01:21 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.1.20  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130129\Y18763.D Vial: 6  
 Acq On : 29 Jan 2013 1:55 pm Operator: MAIT  
 Sample : OP7407-MB Inst : Y  
 Misc : OP7407,EY882,30.00,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 29 16:54:38 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Tue Jan 29 16:49:53 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.136	152	381657	40.00	ppm	# 0.00
25) Naphthalene-d8	7.767	136	1431585	40.00	ppm	# 0.00
43) Acenaphthene-d10	9.987	164	882480	40.00	ppm	#-0.01
73) Phenanthrene-d10	11.811	188	1402658	40.00	ppm	# 0.00
84) Chrysene-d12	16.582	240	851222	40.00	ppm	#-0.02
93) Perylene-d12	19.935	264	507490	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.574	112	597877	44.05	ppm	0.01
Spiked Amount	75.000	Range 10 - 100	Recovery =	58.73%		
9) Phenol-d5	5.735	99	951529	51.74	ppm	-0.01
Spiked Amount	75.000	Range 7 - 100	Recovery =	68.99%		
23) Nitrobenzene-d5	6.874	82	492481	27.82	ppm	-0.01
Spiked Amount	50.000	Range 25 - 100	Recovery =	55.64%		
47) 2-Fluorobiphenyl	9.142	172	857291	27.81	ppm	-0.01
Spiked Amount	50.000	Range 20 - 100	Recovery =	55.62%		
74) 2,4,6-Tribromophenol	10.976	330	115778	49.69	ppm	-0.01
Spiked Amount	75.000	Range 25 - 115	Recovery =	66.25%		
86) p-Terphenyl-d14	14.399	244	1332044	62.94	ppm	-0.01
Spiked Amount	50.000	Range 35 - 130	Recovery =	125.88%		
Target Compounds						
66) Diethyl phthalate	10.559	149	39092	1.26	ppm	Qvalue 95

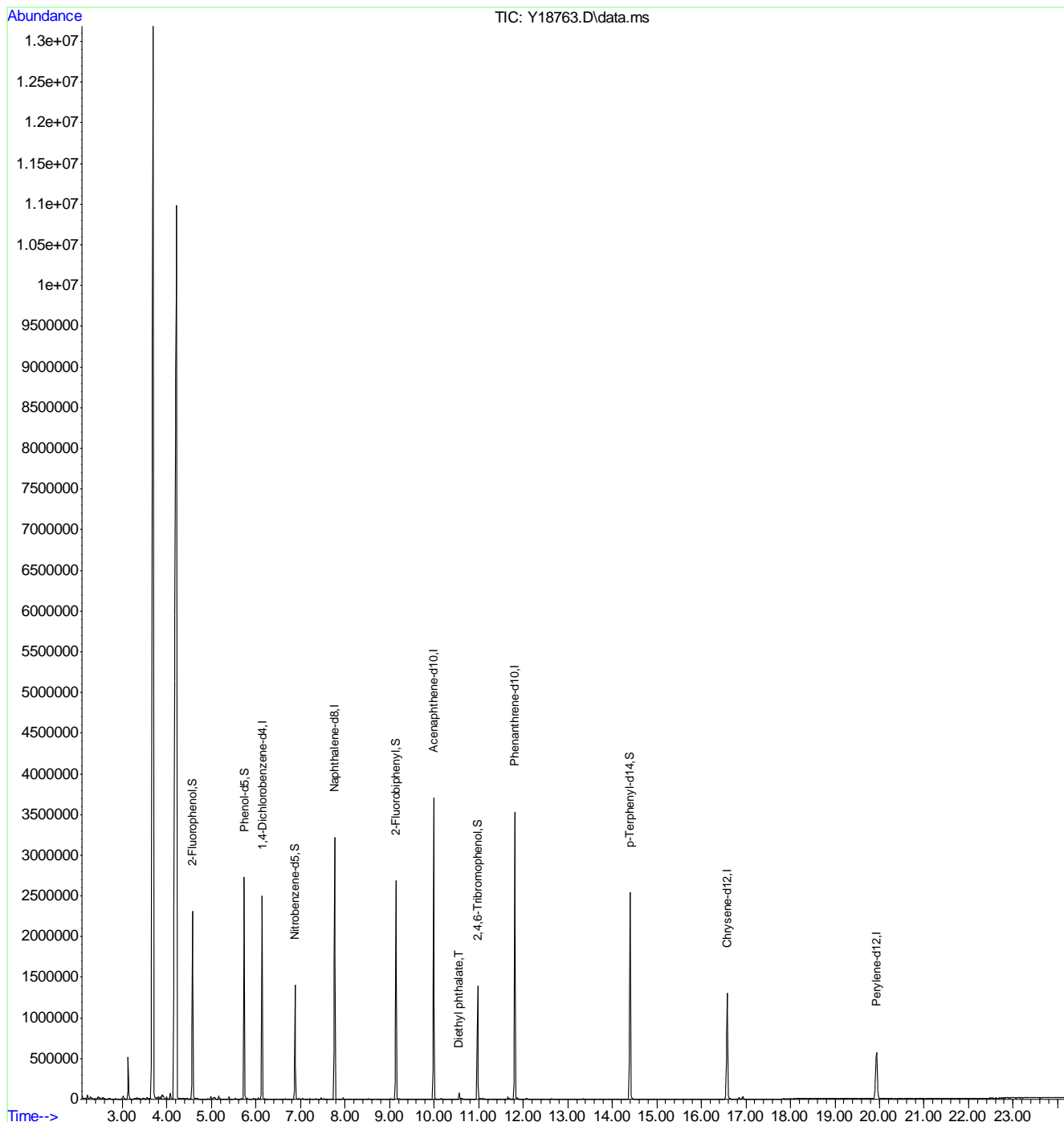
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.2.1  
8

Quantitation Report (QT Reviewed)

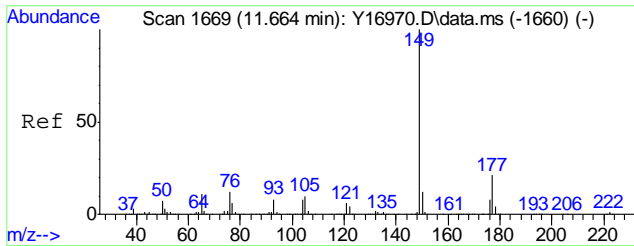
Data File : C:\msdchem\1\DATA\Y130129\Y18763.D Vial: 6  
 Acq On : 29 Jan 2013 1:55 pm Operator: MAIT  
 Sample : OP7407-MB Inst : Y  
 Misc : OP7407,EY882,30.00,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 29 16:54:38 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Tue Jan 29 16:49:53 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



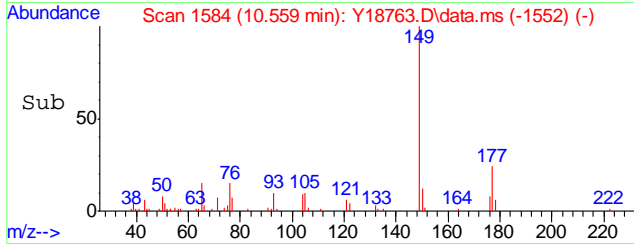
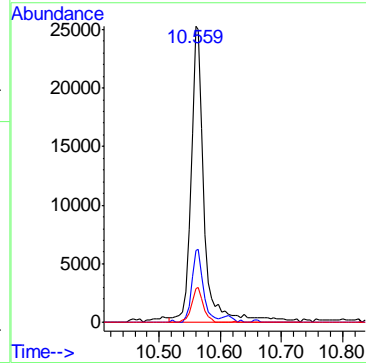
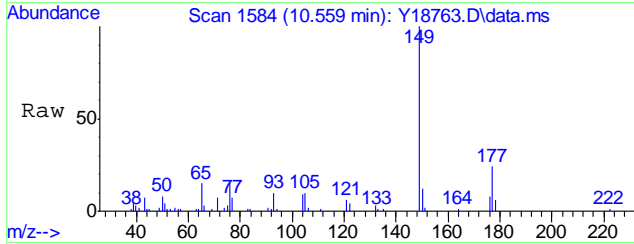
8.2.1  
8





#66  
 Diethyl phthalate  
 Concen: 1.26 ppm  
 RT: 10.559 min Scan# 1584  
 Delta R.T. -0.027 min  
 Lab File: Y18763.D  
 Acq: 29 Jan 2013 1:55 pm

Tgt Ion	Resp	Lower	Upper
149	39092		
177	21.6	13.4	25.0
150	10.6	8.6	16.0



8.2.1  
 8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130129\Y18766.D Vial: 9  
 Acq On : 29 Jan 2013 3:33 pm Operator: MAIT  
 Sample : OP7411-MB Inst : Y  
 Misc : OP7411,EY882,30.00,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 29 16:58:00 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Tue Jan 29 16:49:53 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.136	152	397887	40.00	ppm	# 0.00
25) Naphthalene-d8	7.762	136	1501241	40.00	ppm	#-0.01
43) Acenaphthene-d10	9.987	164	932145	40.00	ppm	#-0.01
73) Phenanthrene-d10	11.811	188	1519556	40.00	ppm	# 0.00
84) Chrysene-d12	16.587	240	1076984	40.00	ppm	#-0.01
93) Perylene-d12	19.935	264	692159	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.579	112	882811	62.38	ppm	0.02
Spiked Amount	75.000	Range 10 - 100	Recovery =	83.17%		
9) Phenol-d5	5.735	99	1276702	66.58	ppm	-0.01
Spiked Amount	75.000	Range 7 - 100	Recovery =	88.77%		
23) Nitrobenzene-d5	6.874	82	755390	40.93	ppm	-0.01
Spiked Amount	50.000	Range 25 - 100	Recovery =	81.86%		
47) 2-Fluorobiphenyl	9.142	172	1348413	41.42	ppm	-0.01
Spiked Amount	50.000	Range 20 - 100	Recovery =	82.84%		
74) 2,4,6-Tribromophenol	10.976	330	178546	70.74	ppm	-0.01
Spiked Amount	75.000	Range 25 - 115	Recovery =	94.32%		
86) p-Terphenyl-d14	14.405	244	1511607	56.46	ppm	0.00
Spiked Amount	50.000	Range 35 - 130	Recovery =	112.92%		

Target Compounds Qvalue

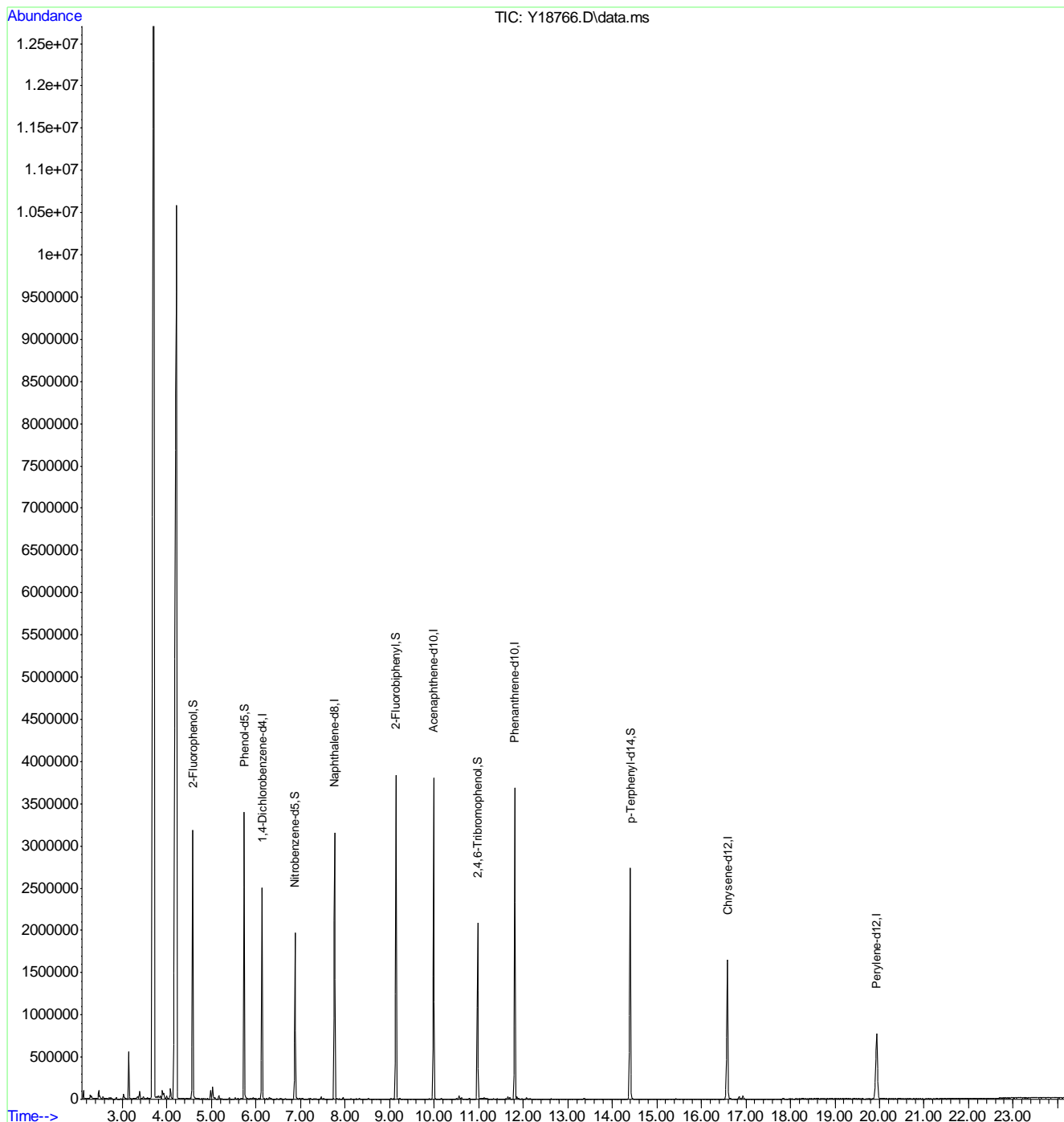
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.22  
8

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\Y130129\Y18766.D Vial: 9  
 Acq On : 29 Jan 2013 3:33 pm Operator: MAIT  
 Sample : OP7411-MB Inst : Y  
 Misc : OP7411,EY882,30.00,,,1,1,S Multiplr: 1.00  
 Quant Results File: EY880\_Terpineol.RES  
 Quant Time: Jan 29 16:58:00 2013

Quant Method : C:\msdchem\1\METHODS\EY880\_Terpineol.M  
 Quant Title : SVOC Method SW 8270C or EPA625  
 QLast Update : Tue Jan 29 16:49:53 2013  
 Response via : Initial Calibration  
 DataAcq Meth:ACQ\_BNA.M



8.2.2  
8

## GC Semi-volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

**Method Blank Summary**

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7406-MB	GG40958.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084

The QC reported here applies to the following samples:

Method: SW846 8015B M

C25941-1, C25941-2, C25941-3, C25941-4, C25941-5, C25941-6, C25941-7, C25941-8, C25941-9, C25941-10, C25941-11, C25941-12, C25941-13, C25941-14, C25941-15, C25941-16, C25941-17, C25941-18, C25941-19, C25941-20

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	79% 37-122%

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7406-BS	GG40960.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
OP7406-BSD	GG40961.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084

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

C25941-1, C25941-2, C25941-3, C25941-4, C25941-5, C25941-6, C25941-7, C25941-8, C25941-9, C25941-10, C25941-11, C25941-12, C25941-13, C25941-14, C25941-15, C25941-16, C25941-17, C25941-18, C25941-19, C25941-20

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	100	81.9	82	78.1	78	5	38-102/28
	TPH (Motor Oil)	100	89.1	89	86.2	86	3	42-111/26

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	89%	83%	37-122%

9.2.1  
9

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** C25941  
**Account:** EQUOCAMS EquoLogic  
**Project:** T10000003424-San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7406-MS	GG40976.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
OP7406-MSD	GG40977.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084
C25941-20	GG40988.D	1	01/29/13	LB	01/28/13	OP7406	GGG1084

The QC reported here applies to the following samples:

Method: SW846 8015B M

C25941-1, C25941-2, C25941-3, C25941-4, C25941-5, C25941-6, C25941-7, C25941-8, C25941-9, C25941-10, C25941-11, C25941-12, C25941-13, C25941-14, C25941-15, C25941-16, C25941-17, C25941-18, C25941-19, C25941-20

CAS No.	Compound	C25941-20 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	ND	99.5	56.3	57	54.4	55	3	38-102/28
	TPH (Motor Oil)	ND	99.5	71.9	72	66.0	67	9	42-111/26

CAS No.	Surrogate Recoveries	MS	MSD	C25941-20	Limits
630-01-3	Hexacosane	61%	60%	59%	37-122%

9.3.1  
9

\* = Outside of Control Limits.

GC Semi-volatiles

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Raw Data

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40968.D Vial: 14  
 Acq On : 1-29-13 1:02:39 PM Operator: LAURAB  
 Sample : C25941-1 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.10,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 10:56 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	57776443	68.342 ppm
Spiked Amount	100.000	Recovery	= 68.34%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	35950485	37.543 ppm
3) H TPH (>C28-C40)	12.00	87049126	148.562 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	0.00	0	N.D. ppm
7) H TPH (Motor Oil)	12.00	111799740	191.544 ppm

10.1.1  
10

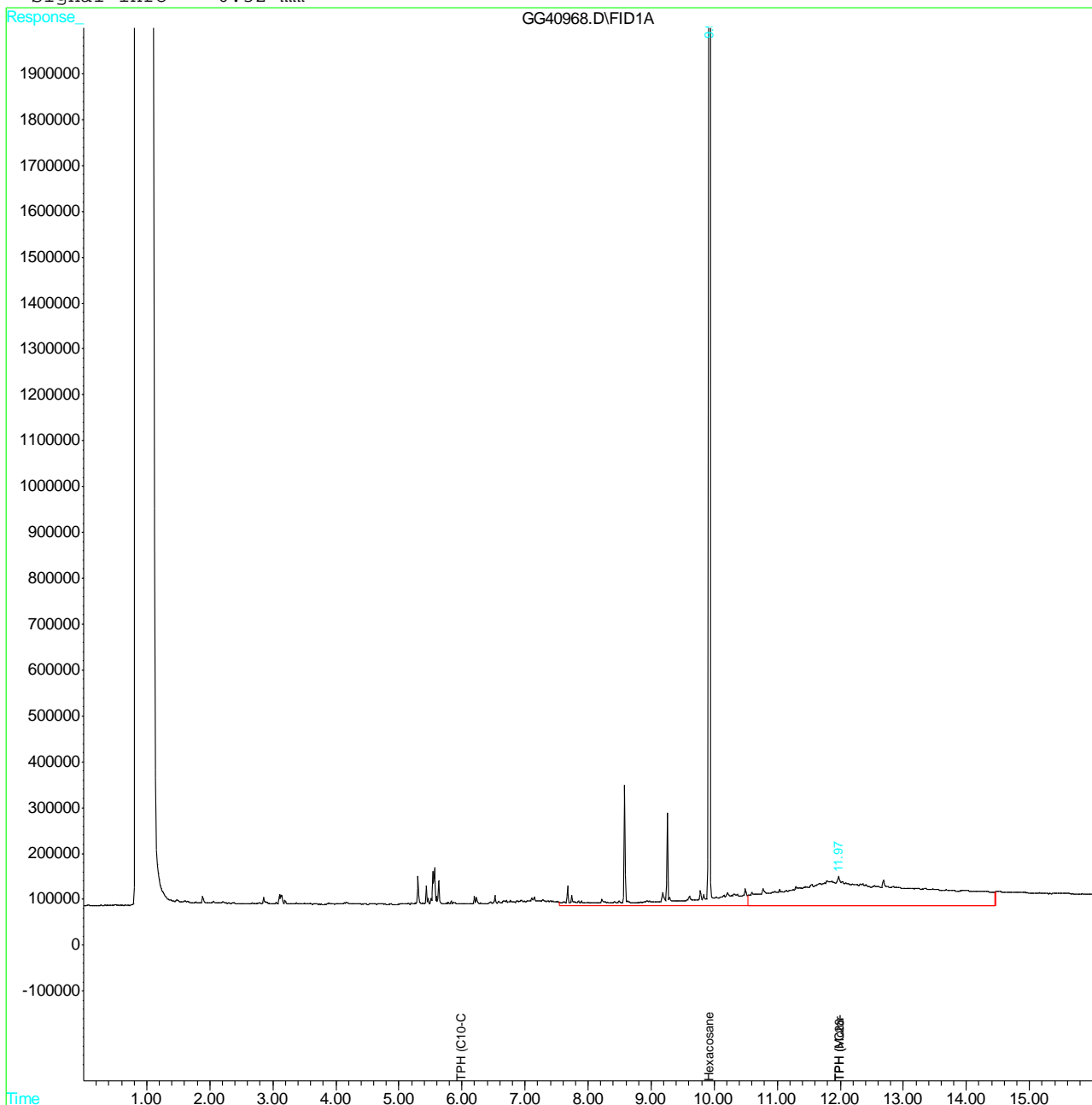
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40968.D GGG1081.M Wed Jan 30 10:56:27 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40968.D Vial: 14  
 Acq On : 1-29-13 1:02:39 PM Operator: LAURAB  
 Sample : C25941-1 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.10,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 10:56 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.1  
10

Manual Integrations  
**APPROVED**  
 (compounds with "m" flag)  
**Mai Tran**  
**01/30/13 17:27**

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40969.D Vial: 15  
 Acq On : 1-29-13 1:24:37 PM Operator: LAURAB  
 Sample : C25941-2 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.09,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:10 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S,M Hexacosane	9.92	58346214	69.016	ppm m
Spiked Amount	100.000	Recovery	=	69.02%
<b>Target Compounds</b>				
2) H,M TPH (C10-C28)	6.00	20208393	21.104	ppm
3) H TPH (>C28-C40)	12.00	28658933	48.911	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	6.00	20208393	21.073	ppm
7) H TPH (Motor Oil)	12.00	28658933	49.101	ppm

10.12 10

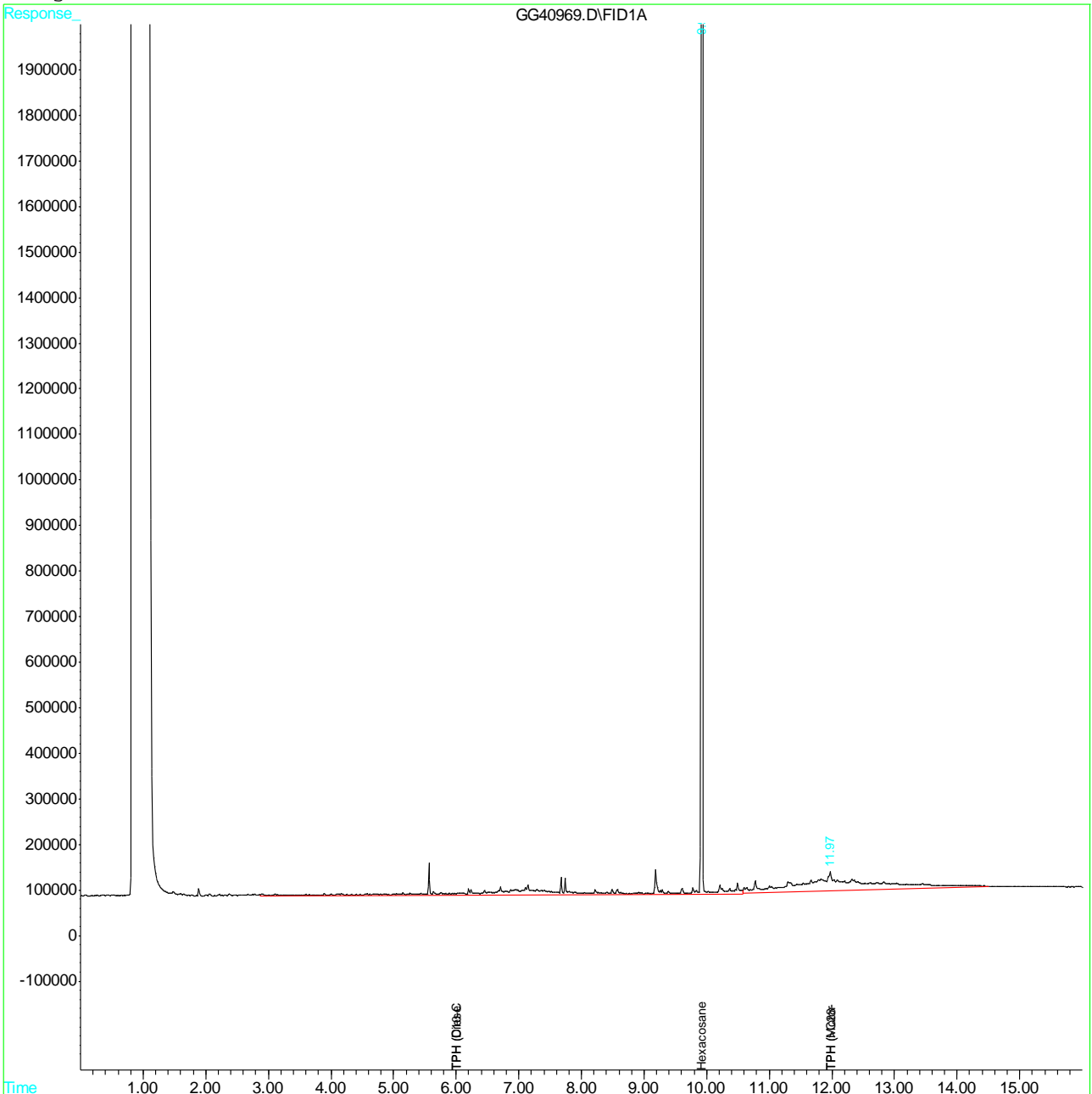
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40969.D GGG1081.M Wed Jan 30 11:10:26 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40969.D Vial: 15  
 Acq On : 1-29-13 1:24:37 PM Operator: LAURAB  
 Sample : C25941-2 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.09,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:10 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.2  
10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40970.D Vial: 16  
 Acq On : 1-29-13 1:46:33 PM Operator: LAURAB  
 Sample : C25941-3 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.12,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:11 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	64785433	76.632 ppm
Spiked Amount 100.000		Recovery =	76.63%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	15307464	15.986 ppm
3) H TPH (>C28-C40)	12.00	27285706	46.567 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	6.00	15307464	15.963 ppm
7) H TPH (Motor Oil)	12.00	27285706	46.748 ppm

10.1.3 10

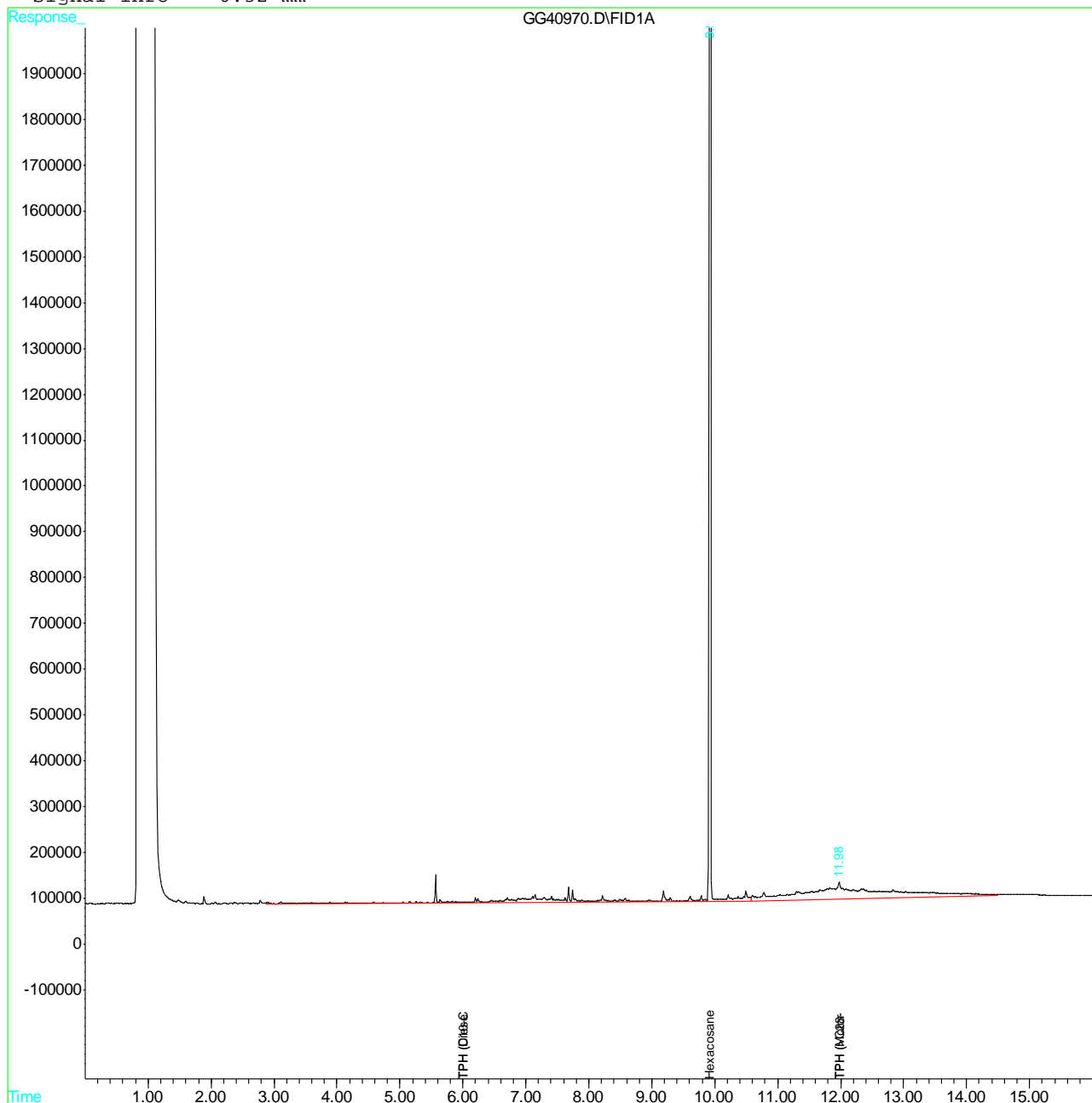
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40970.D GGG1081.M Wed Jan 30 11:11:12 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40970.D Vial: 16  
 Acq On : 1-29-13 1:46:33 PM Operator: LAURAB  
 Sample : C25941-3 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.12,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:11 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.3  
10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40971.D Vial: 17  
 Acq On : 1-29-13 2:08:20 PM Operator: LAURAB  
 Sample : C25941-4 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.08,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:11 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
1) S,M Hexacosane	9.92	59407531	70.271 ppm
Spiked Amount 100.000		Recovery =	70.27%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	83985431	87.706 ppm
3) H TPH (>C28-C40)	12.00	16351993	27.907 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	6.00	83985431	87.580 ppm
7) H TPH (Motor Oil)	12.00	16351993	28.016 ppm

10.14 10

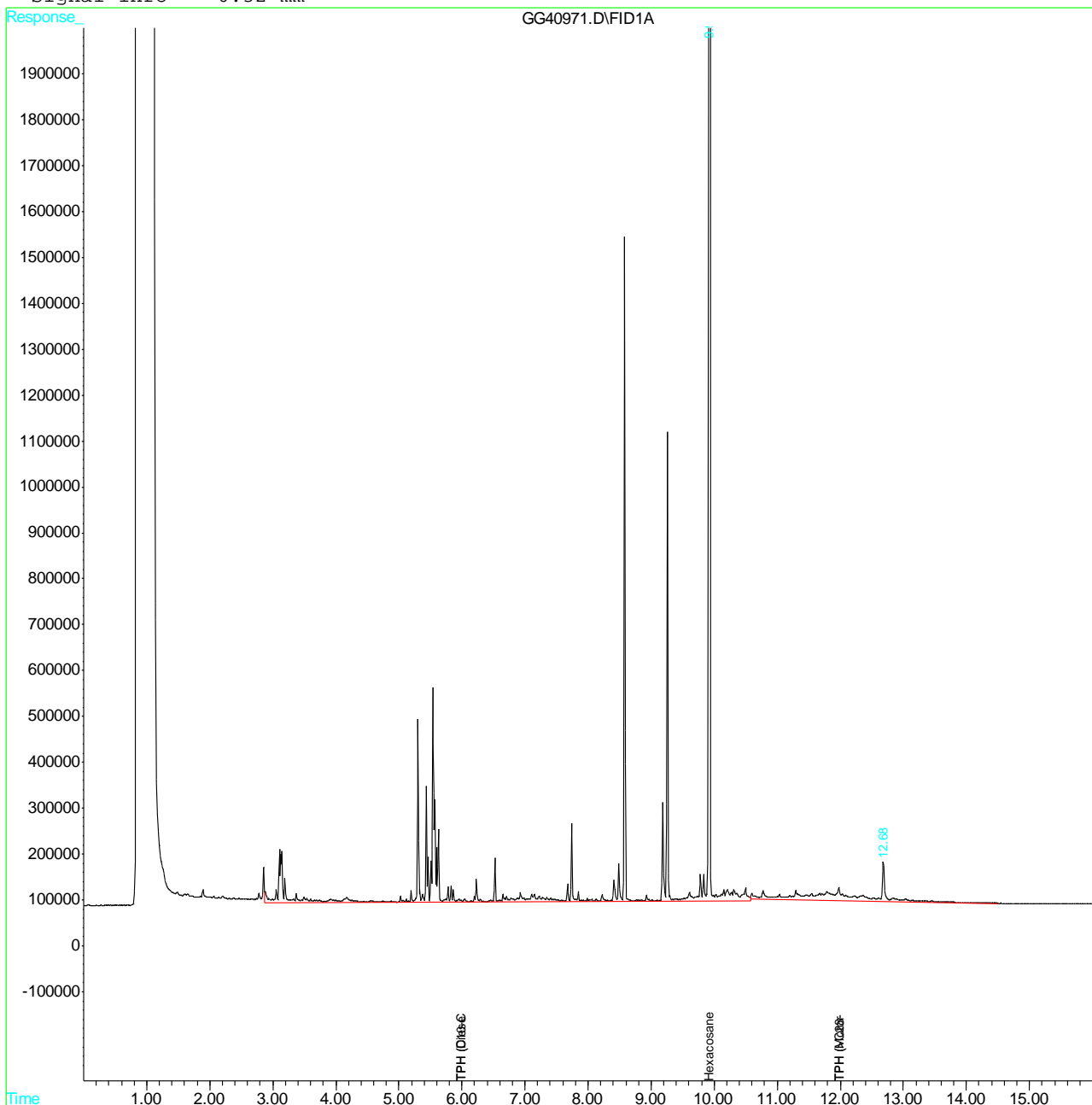
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 (f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40971.D GGG1081.M Wed Jan 30 11:11:55 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40971.D Vial: 17  
 Acq On : 1-29-13 2:08:20 PM Operator: LAURAB  
 Sample : C25941-4 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.08,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:11 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.4  
10



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40966.D Vial: 13  
 Acq On : 1-29-13 12:17:44 PM Operator: LAURAB  
 Sample : C25941-5 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.03,,,1,10,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 29 12:38 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	6265887	7.412 ppm
Spiked Amount 100.000		Recovery =	7.41%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	49308090	51.493 ppm
3) H TPH (>C28-C40)	12.00	174154551	297.221 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	0.00	0	N.D. ppm
7) H TPH (Motor Oil)	12.00	219518045	376.096 ppm

10.1.5 10

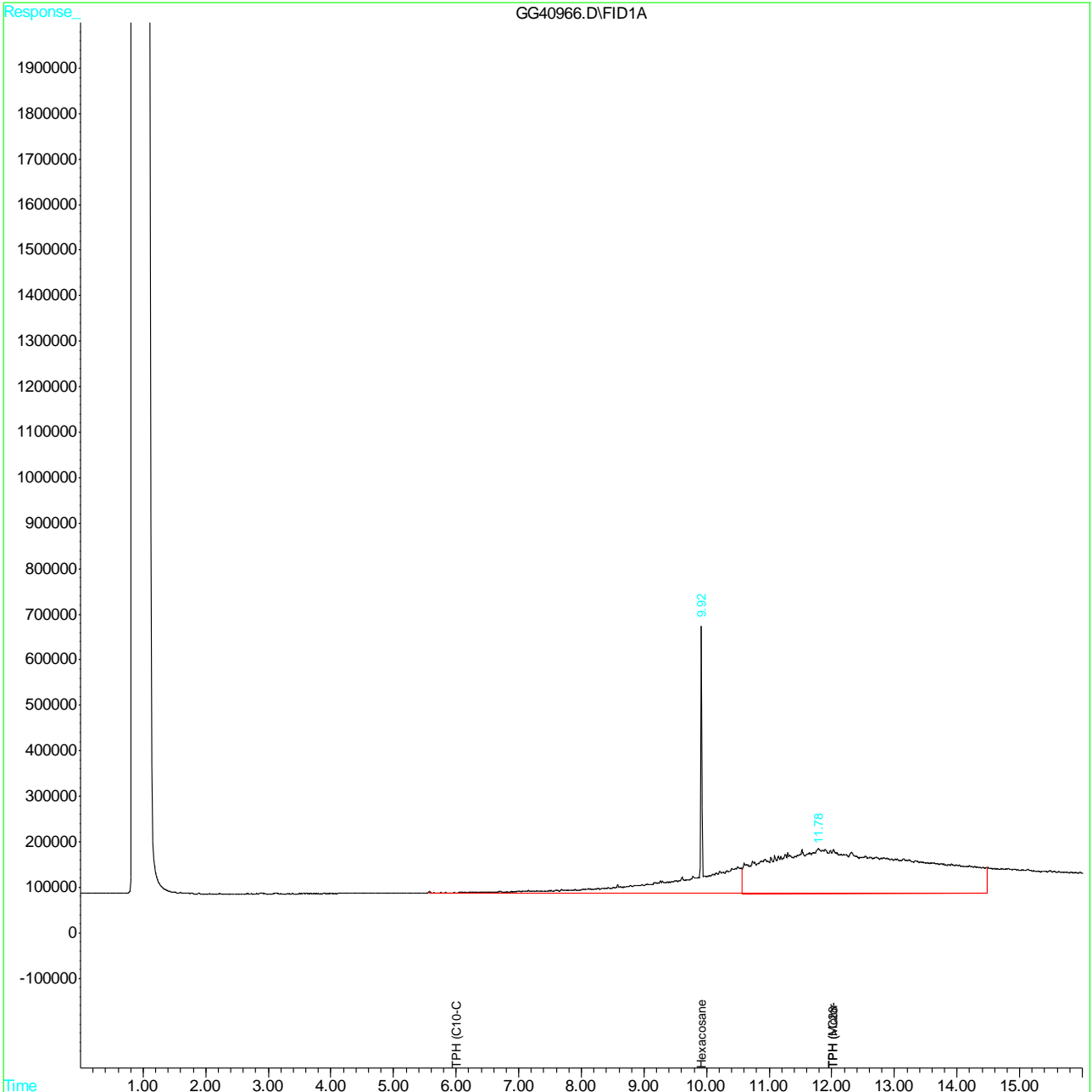
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40966.D GGG1081.M Tue Jan 29 12:39:00 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40966.D Vial: 13  
 Acq On : 1-29-13 12:17:44 PM Operator: LAURAB  
 Sample : C25941-5 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.03,,,1,10,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 29 12:38 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.5  
10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40972.D Vial: 18  
 Acq On : 1-29-13 2:30:18 PM Operator: LAURAB  
 Sample : C25941-6 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.00,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:12 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S,M Hexacosane	9.92	54405232	64.354	ppm m
Spiked Amount	100.000	Recovery	=	64.35%
<b>Target Compounds</b>				
2) H,M TPH (C10-C28)	6.00	17015367	17.769	ppm
3) H TPH (>C28-C40)	12.00	19327930	32.986	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	6.00	17015367	17.744	ppm
7) H TPH (Motor Oil)	12.00	19327930	33.114	ppm

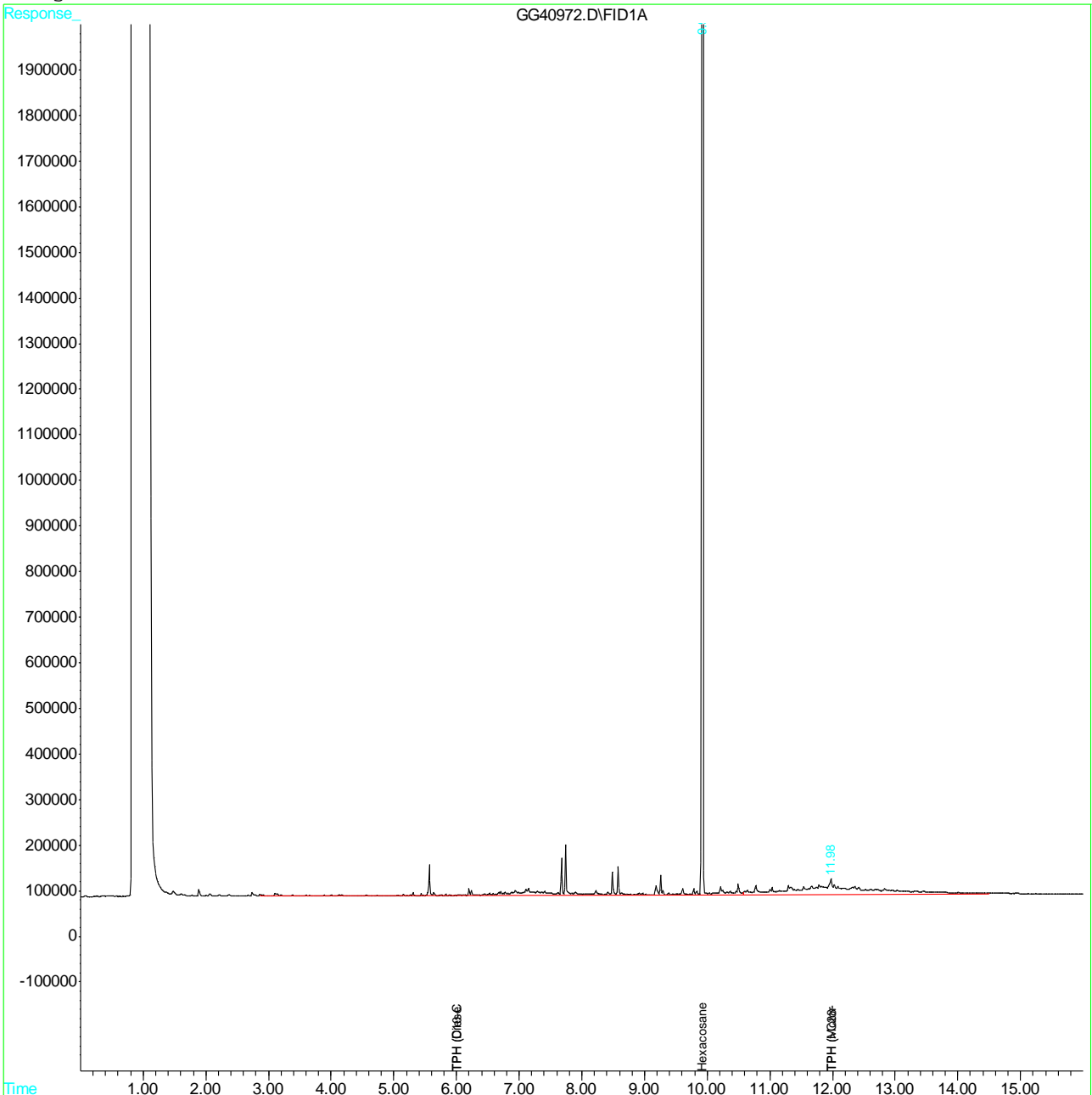
10.16 10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40972.D Vial: 18  
 Acq On : 1-29-13 2:30:18 PM Operator: LAURAB  
 Sample : C25941-6 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.00,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:12 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.6  
10

Manual Integrations  
**APPROVED**  
 (compounds with "m" flag)  
**Mai Tran**  
**01/30/13 17:27**

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40973.D Vial: 19  
 Acq On : 1-29-13 2:52:16 PM Operator: LAURAB  
 Sample : C25941-7 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.02,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:13 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S,M Hexacosane	9.92	51963117	61.465	ppm m
Spiked Amount	100.000	Recovery	=	61.47%
<b>Target Compounds</b>				
2) H,M TPH (C10-C28)	6.00	14518730	15.162	ppm
3) H TPH (>C28-C40)	12.00	27662758	47.211	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	6.00	14518730	15.140	ppm
7) H TPH (Motor Oil)	12.00	27662758	47.394	ppm

10.17  
**10**

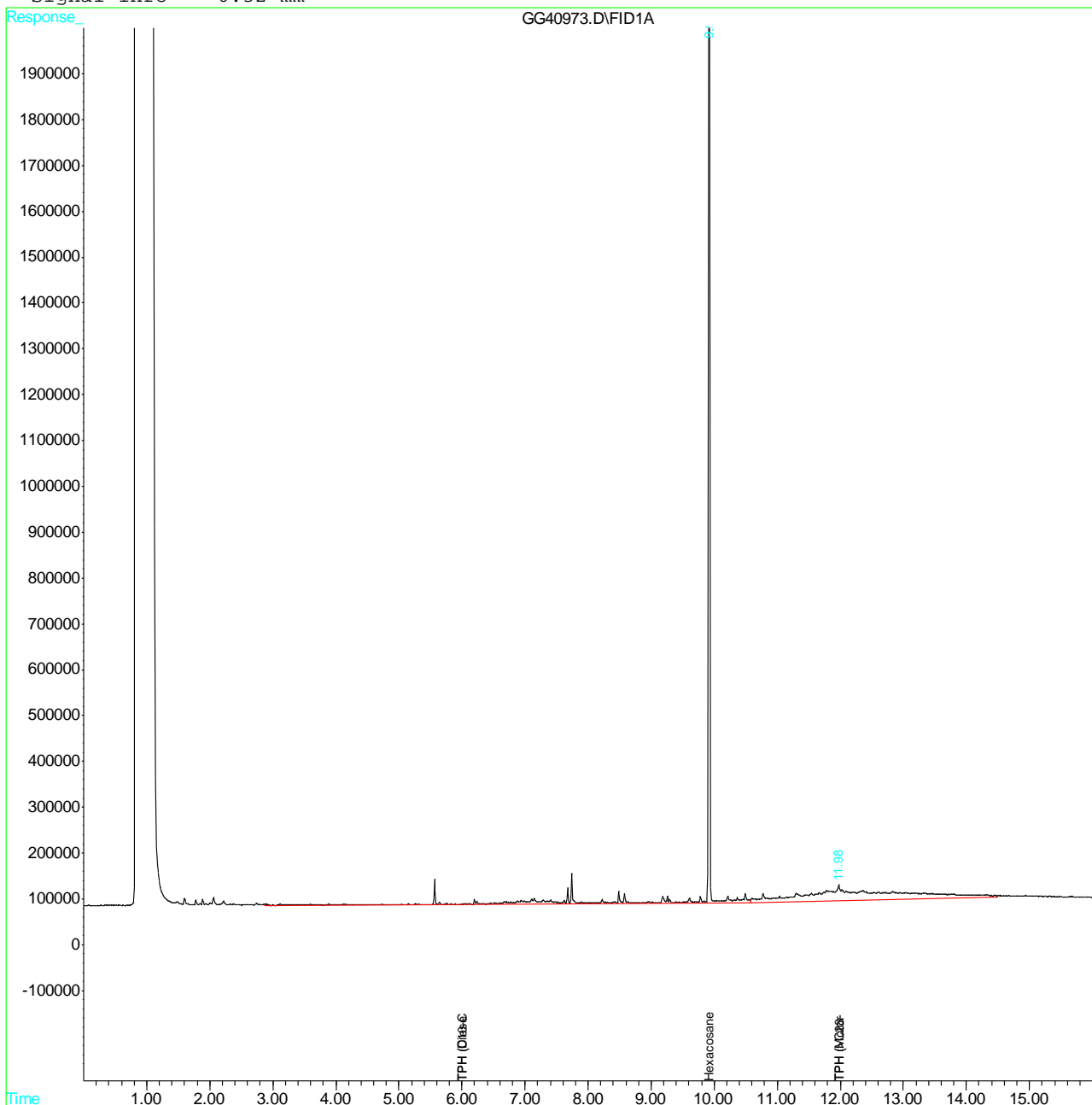
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40973.D GGG1081.M Wed Jan 30 11:13:24 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40973.D Vial: 19  
 Acq On : 1-29-13 2:52:16 PM Operator: LAURAB  
 Sample : C25941-7 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.02,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:13 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.7  
10

Manual Integrations  
**APPROVED**  
 (compounds with "m" flag)  
**Mai Tran**  
**01/30/13 17:28**

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40974.D Vial: 20  
 Acq On : 1-29-13 3:14:05 PM Operator: LAURAB  
 Sample : C25941-8 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.10,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:14 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S,M Hexacosane	9.92	53449170	63.223	ppm m
Spiked Amount	100.000	Recovery	=	63.22%
<b>Target Compounds</b>				
2) H,M TPH (C10-C28)	6.00	16274200	16.995	ppm
3) H TPH (>C28-C40)	12.00	25211167	43.027	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	6.00	16274200	16.971	ppm
7) H TPH (Motor Oil)	12.00	25211167	43.194	ppm

10.18  
10

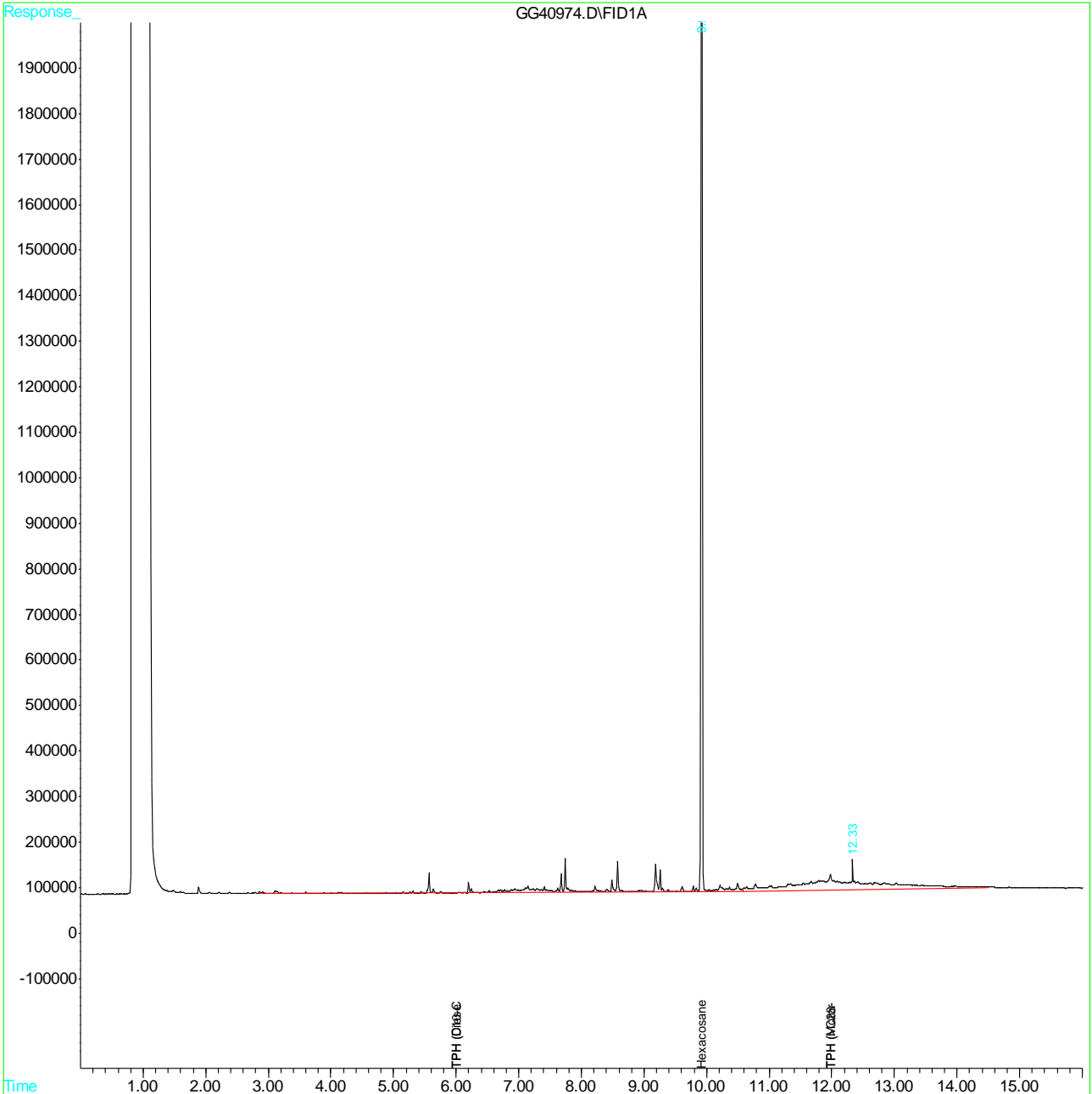
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40974.D GGG1081.M Wed Jan 30 11:14:23 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40974.D Vial: 20  
 Acq On : 1-29-13 3:14:05 PM Operator: LAURAB  
 Sample : C25941-8 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.10,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:14 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.8  
10



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40975.D Vial: 21  
 Acq On : 1-29-13 3:35:57 PM Operator: LAURAB  
 Sample : C25941-9 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.03,,,1,3,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:28 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	19757042	23.370 ppm
Spiked Amount	100.000	Recovery	= 23.37%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	278931384	291.289 ppm
3) H TPH (>C28-C40)	12.00	315847302	539.041 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	6.00	223423507	232.985 ppm
7) H TPH (Motor Oil)	12.00	356495888	610.777 ppm

10.19 10

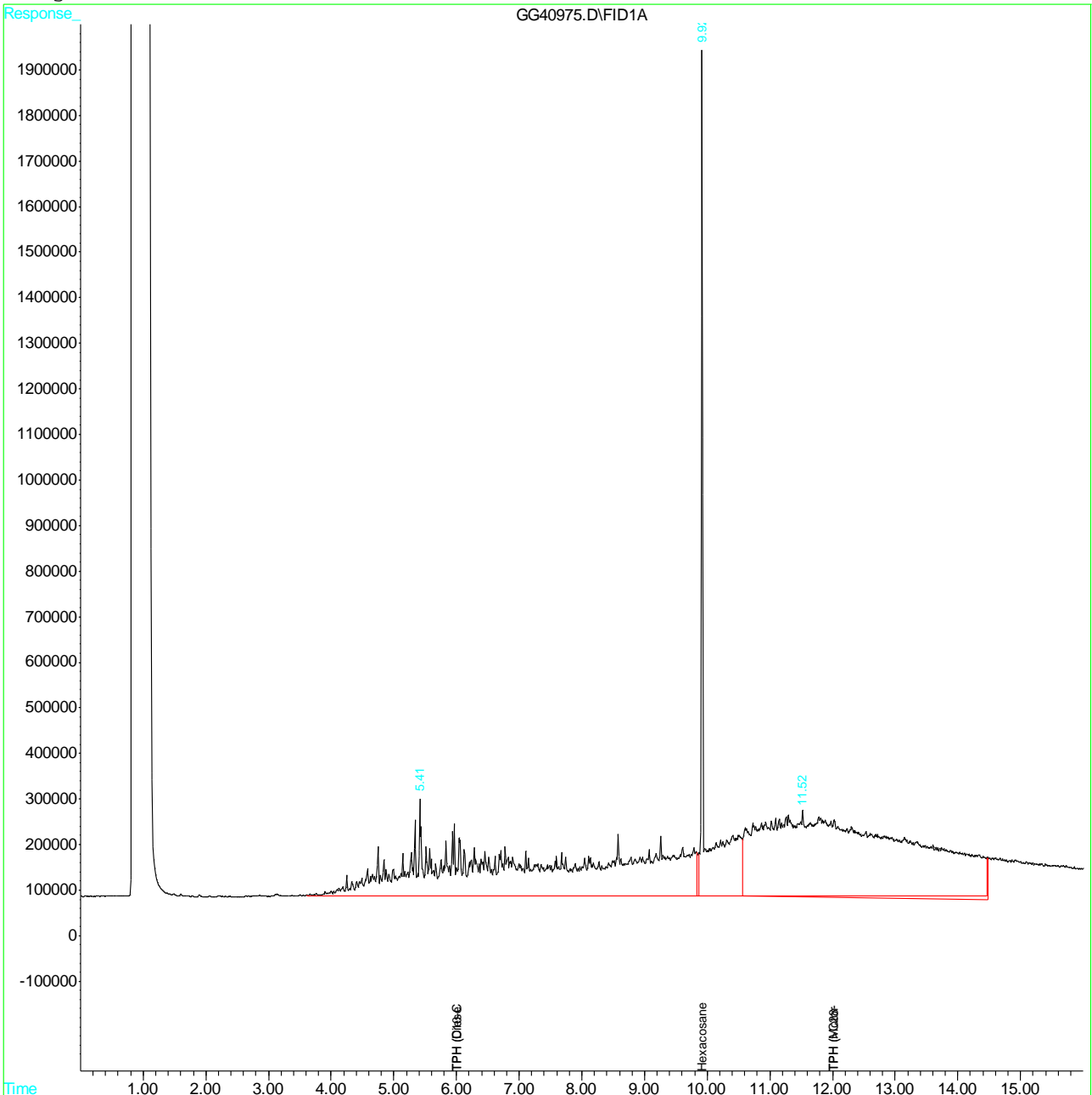
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40975.D GGG1081.M Wed Jan 30 11:28:45 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40975.D Vial: 21  
 Acq On : 1-29-13 3:35:57 PM Operator: LAURAB  
 Sample : C25941-9 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.03,,,1,3,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:28 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.9  
10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40979.D Vial: 24  
 Acq On : 1-29-13 5:03:28 PM Operator: LAURAB  
 Sample : C25941-10 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.09,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:37 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	68027291	80.467 ppm
Spiked Amount	100.000	Recovery	= 80.47%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	86564776	90.400 ppm
3) H TPH (>C28-C40)	12.00	250900818	428.200 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	0.00	0	N.D. ppm
7) H TPH (Motor Oil)	12.00	327257804	560.684 ppm

10.1.10 10

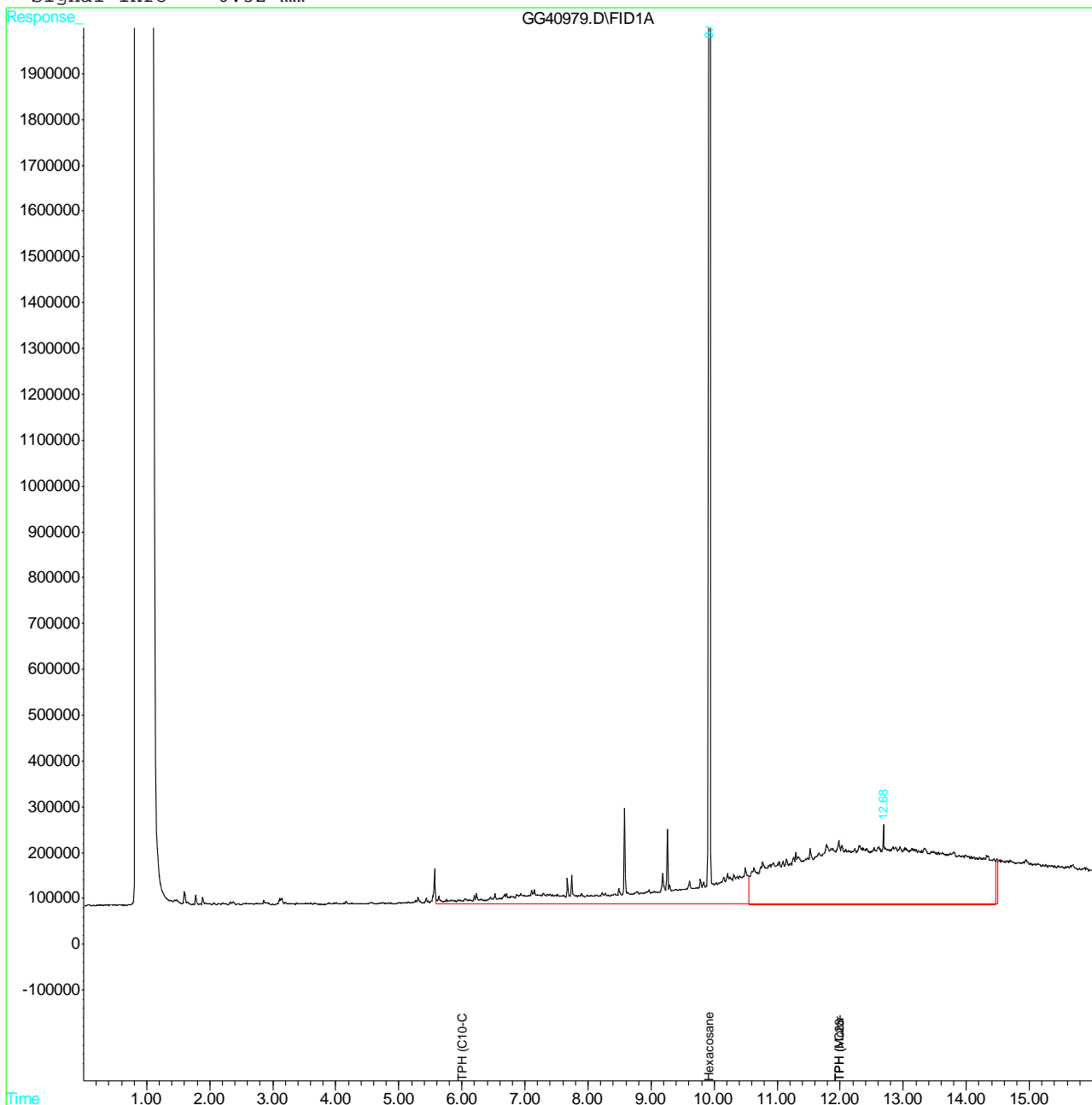
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40979.D GGG1081.M Wed Jan 30 11:37:17 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40979.D Vial: 24  
 Acq On : 1-29-13 5:03:28 PM Operator: LAURAB  
 Sample : C25941-10 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.09,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:37 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.10 10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40980.D Vial: 25  
 Acq On : 1-29-13 5:25:24 PM Operator: LAURAB  
 Sample : C25941-11 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.01,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:40 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	64351813	76.119 ppm
Spiked Amount 100.000		Recovery =	76.12%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	34229540	35.746 ppm
3) H TPH (>C28-C40)	12.00	145600242	248.489 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	0.00	0	N.D. ppm
7) H TPH (Motor Oil)	12.00	176581548	302.533 ppm

10.1.11 10

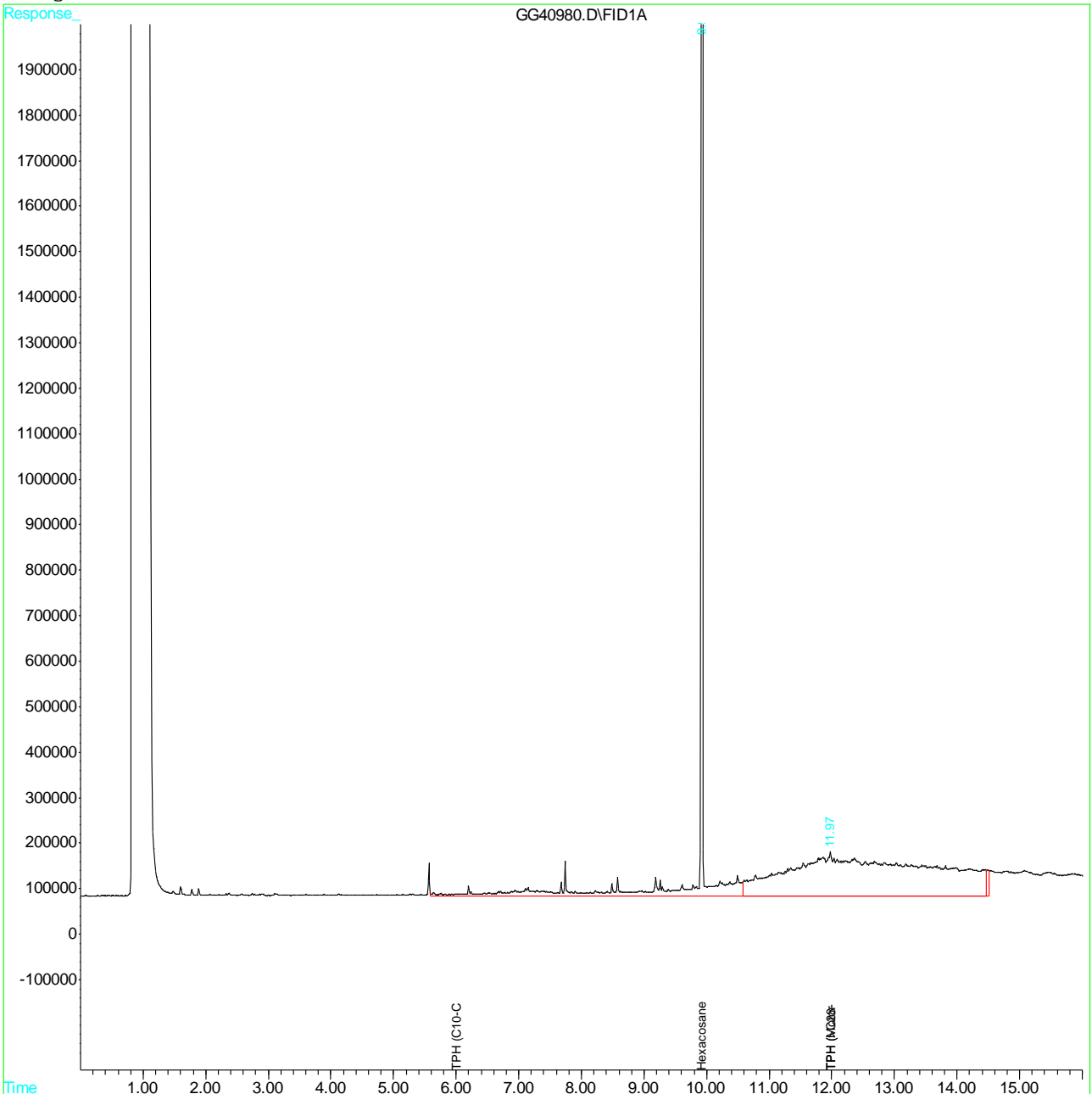
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40980.D GGG1081.M Wed Jan 30 11:41:03 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40980.D Vial: 25  
 Acq On : 1-29-13 5:25:24 PM Operator: LAURAB  
 Sample : C25941-11 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.01,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:40 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.11  
10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40981.D Vial: 26  
 Acq On : 1-29-13 5:47:19 PM Operator: LAURAB  
 Sample : C25941-12 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.09,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:47 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	63813062	75.482 ppm
Spiked Amount 100.000		Recovery =	75.48%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	28194603	29.444 ppm
3) H TPH (>C28-C40)	12.00	84018604	143.390 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	0.00	0	N.D. ppm
7) H TPH (Motor Oil)	12.00	108236543	185.439 ppm

10.1.12 10

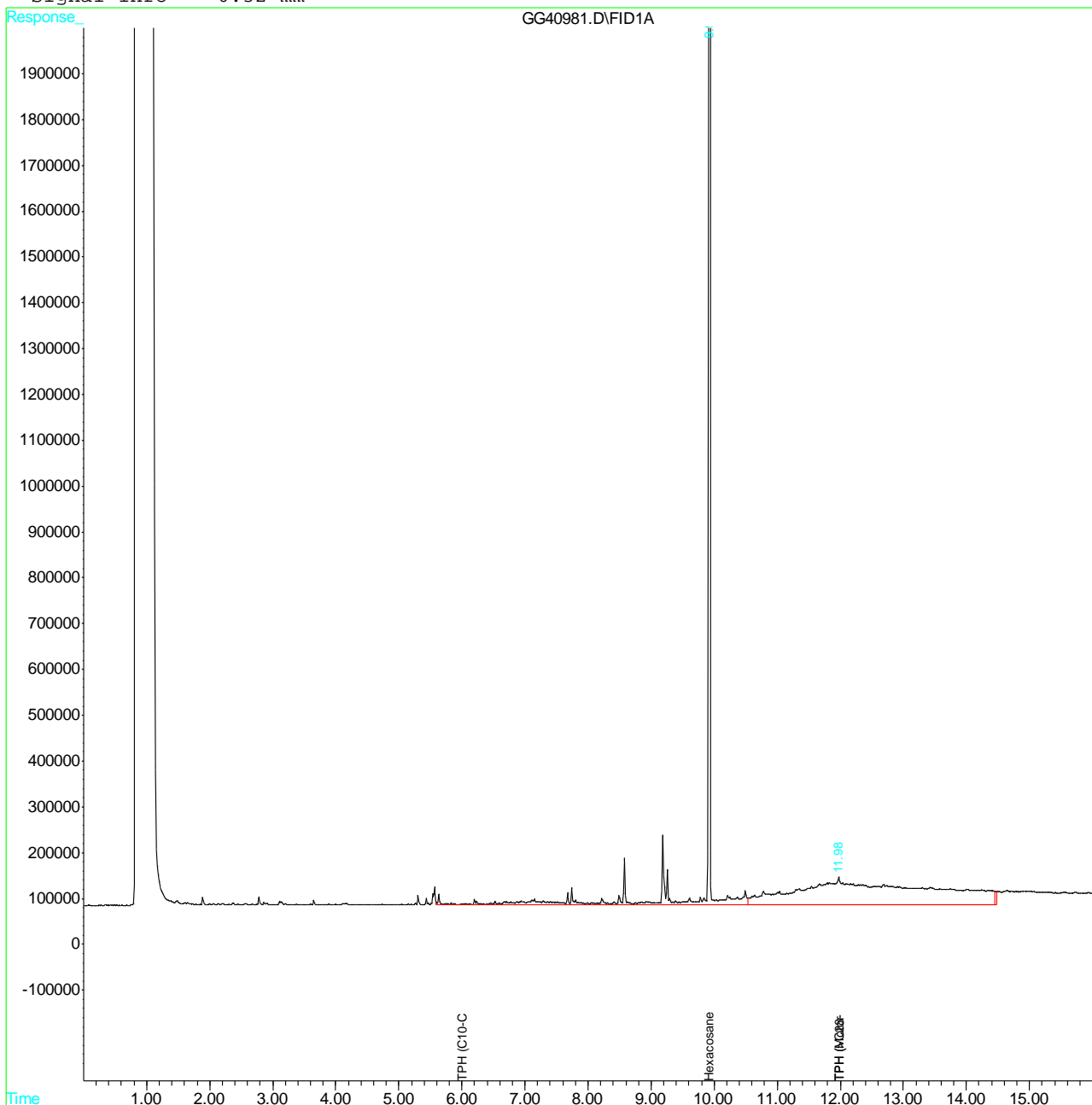
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40981.D GGG1081.M Wed Jan 30 11:47:41 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40981.D Vial: 26  
 Acq On : 1-29-13 5:47:19 PM Operator: LAURAB  
 Sample : C25941-12 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.09,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:47 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.12  
10



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40982.D Vial: 27  
 Acq On : 1-29-13 6:09:12 PM Operator: LAURAB  
 Sample : C25941-13 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.07,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:49 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	59033530	69.828 ppm
Spiked Amount 100.000		Recovery =	69.83%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	21074214	22.008 ppm
3) H TPH (>C28-C40)	12.00	46346862	79.098 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	6.00	21074214	21.976 ppm
7) H TPH (Motor Oil)	12.00	46346862	79.405 ppm

10.1.13 10

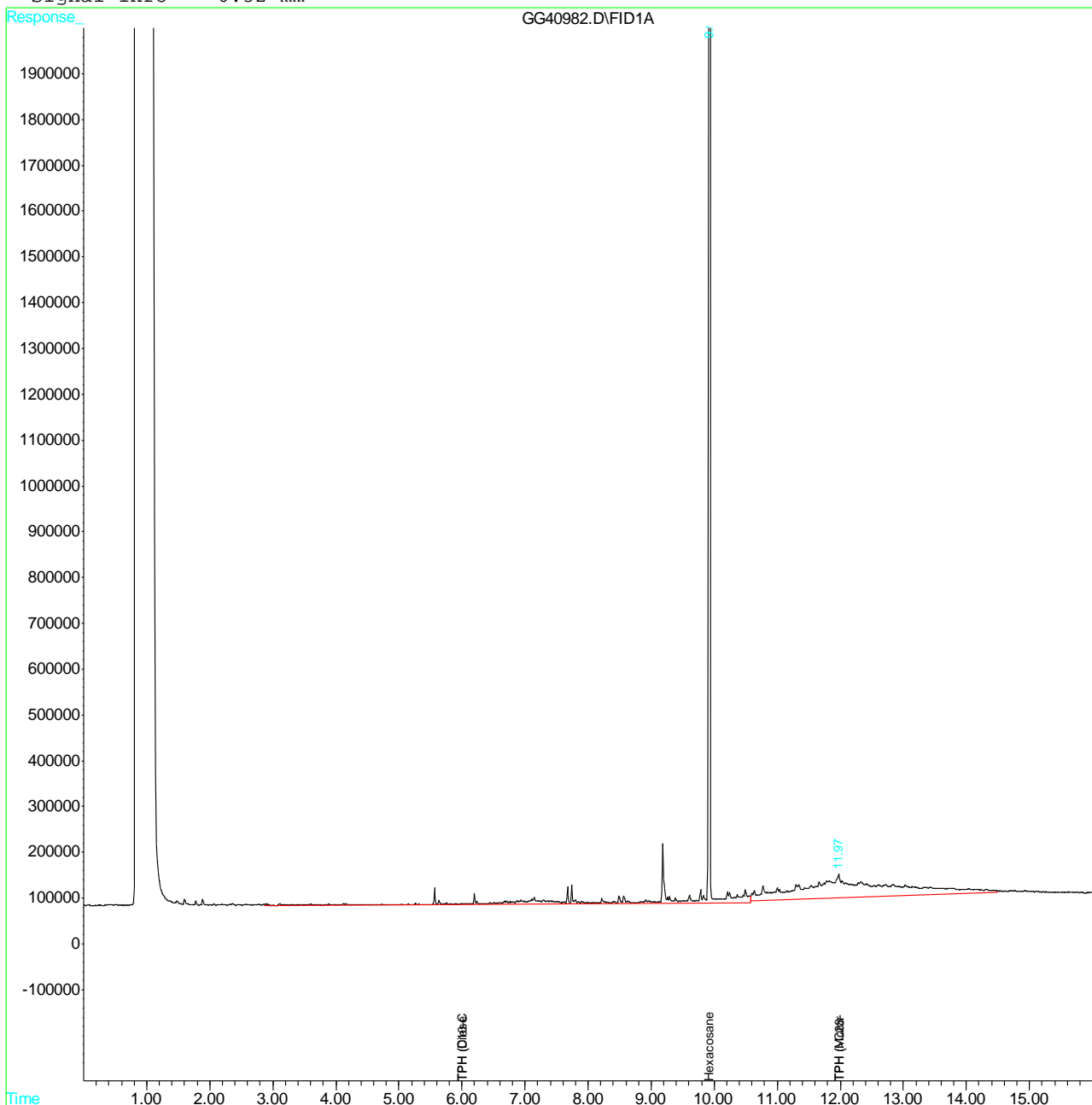
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40982.D GGG1081.M Wed Jan 30 11:49:48 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40982.D Vial: 27  
 Acq On : 1-29-13 6:09:12 PM Operator: LAURAB  
 Sample : C25941-13 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.07,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:49 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.13  
10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40983.D Vial: 28  
 Acq On : 1-29-13 6:31:09 PM Operator: LAURAB  
 Sample : C25941-14 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.00,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 12:01 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	59590013	70.487 ppm
Spiked Amount 100.000		Recovery =	70.49%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	48827054	50.990 ppm
3) H TPH (>C28-C40)	12.00	99230604	169.352 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	0.00	0	N.D. ppm
7) H TPH (Motor Oil)	12.00	131596806	225.462 ppm

10.1.14 10

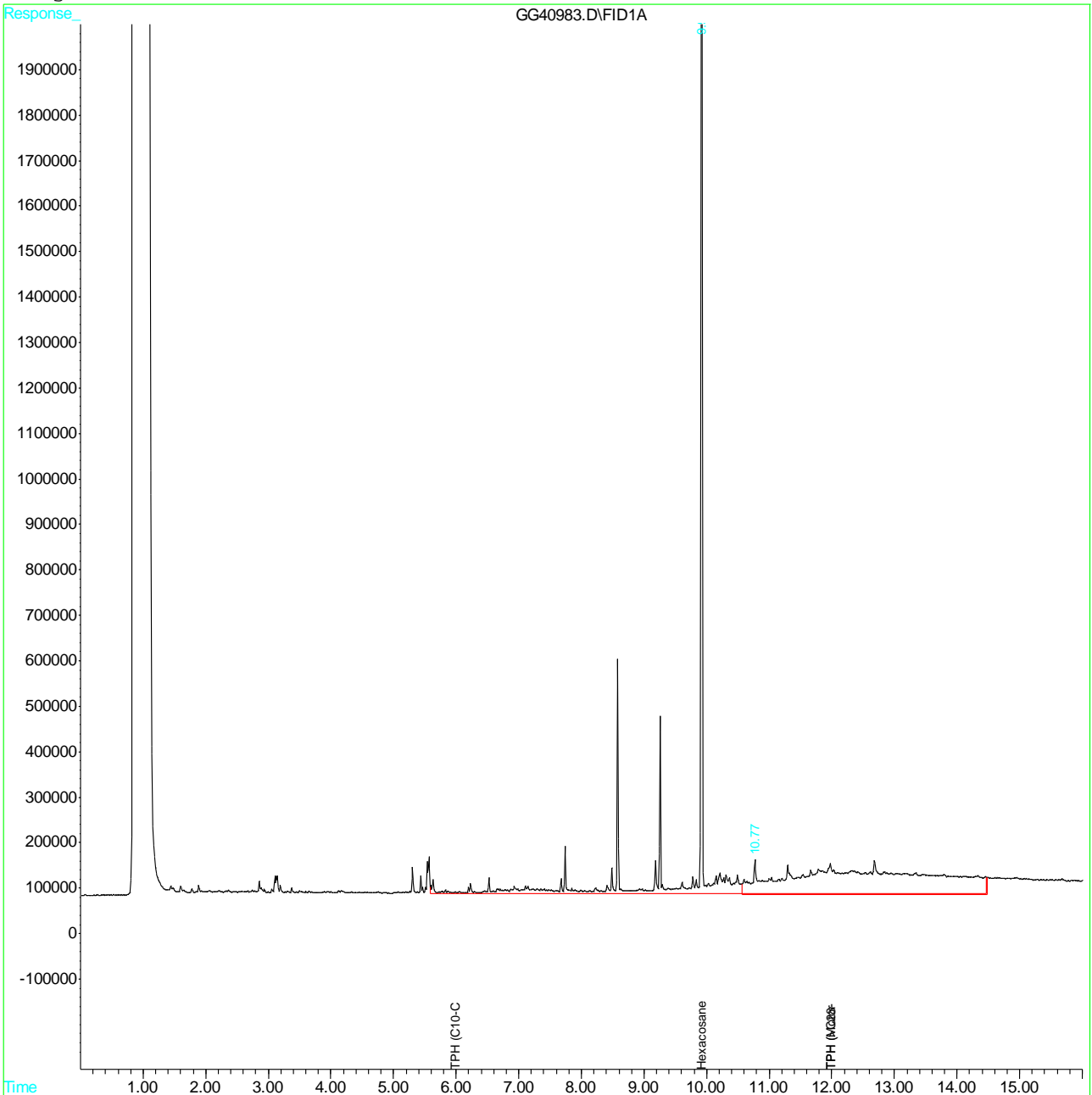
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40983.D GGG1081.M Wed Jan 30 12:01:46 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40983.D Vial: 28  
 Acq On : 1-29-13 6:31:09 PM Operator: LAURAB  
 Sample : C25941-14 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.00,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 12:01 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.14  
10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40984.D Vial: 29  
 Acq On : 1-29-13 6:52:54 PM Operator: LAURAB  
 Sample : C25941-15 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.06,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 12:03 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	48079077	56.871 ppm
Spiked Amount 100.000		Recovery =	56.87%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	43950343	45.898 ppm
3) H TPH (>C28-C40)	12.00	74919534	127.861 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	0.00	0	N.D. ppm
7) H TPH (Motor Oil)	12.00	105083699	180.038 ppm

10.1.15 10

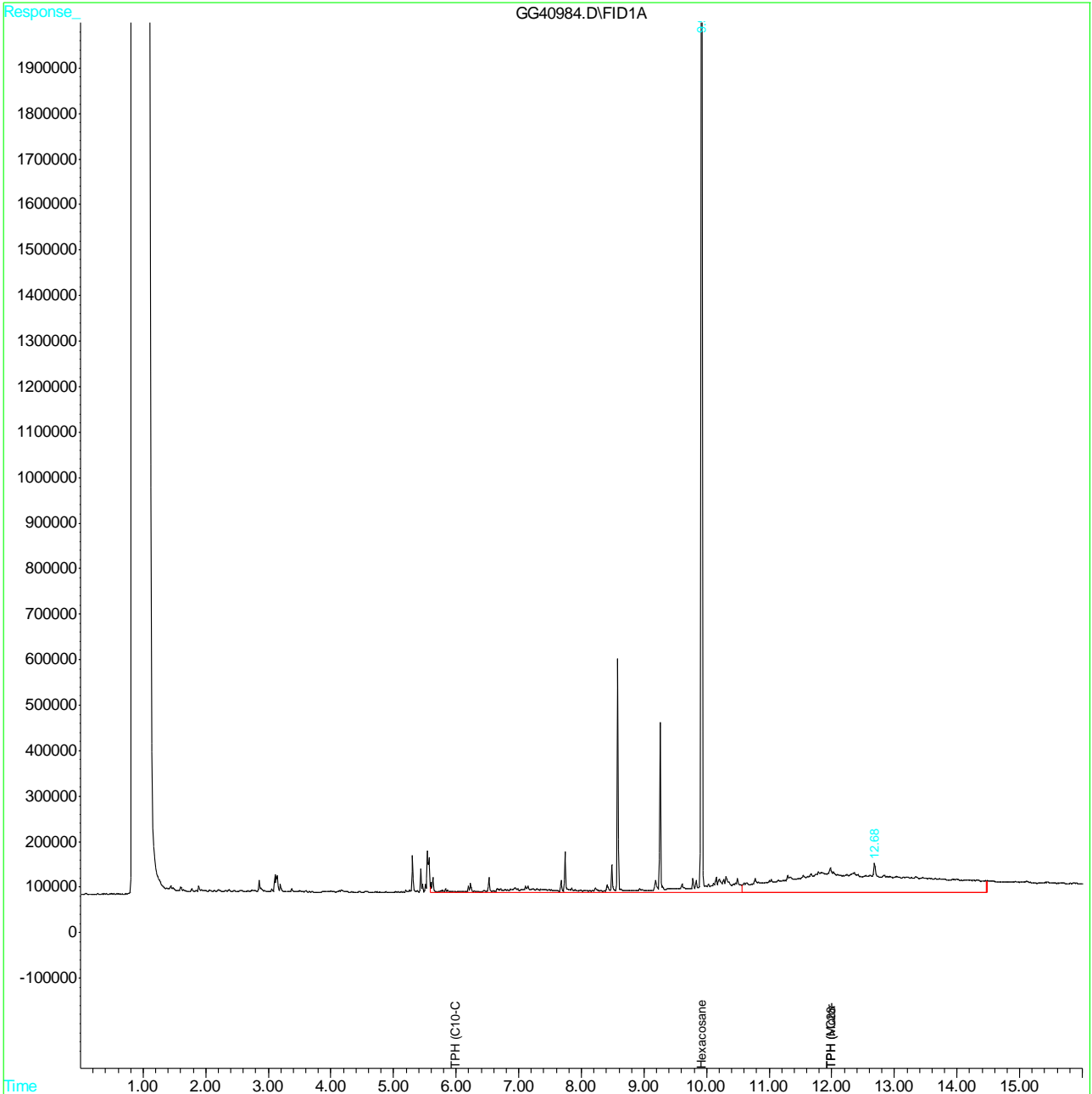
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40984.D GGG1081.M Wed Jan 30 12:03:47 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40984.D Vial: 29  
 Acq On : 1-29-13 6:52:54 PM Operator: LAURAB  
 Sample : C25941-15 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.06,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 12:03 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.15  
10

Manual Integrations  
**APPROVED**  
 (compounds with "m" flag)  
 Mai Tran  
 01/30/13 17:28

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40985.D Vial: 30  
 Acq On : 1-29-13 7:14:53 PM Operator: LAURAB  
 Sample : C25941-16 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.05,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:57 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S,M Hexacosane	9.92	60517318	71.584	ppm m
Spiked Amount	100.000	Recovery	=	71.58%
<b>Target Compounds</b>				
2) H,M TPH (C10-C28)	6.00	31622349	33.023	ppm
3) H TPH (>C28-C40)	12.00	63996661	109.220	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	0.00	0	N.D.	ppm
7) H TPH (Motor Oil)	12.00	92287431	158.114	ppm

10.1.16 10

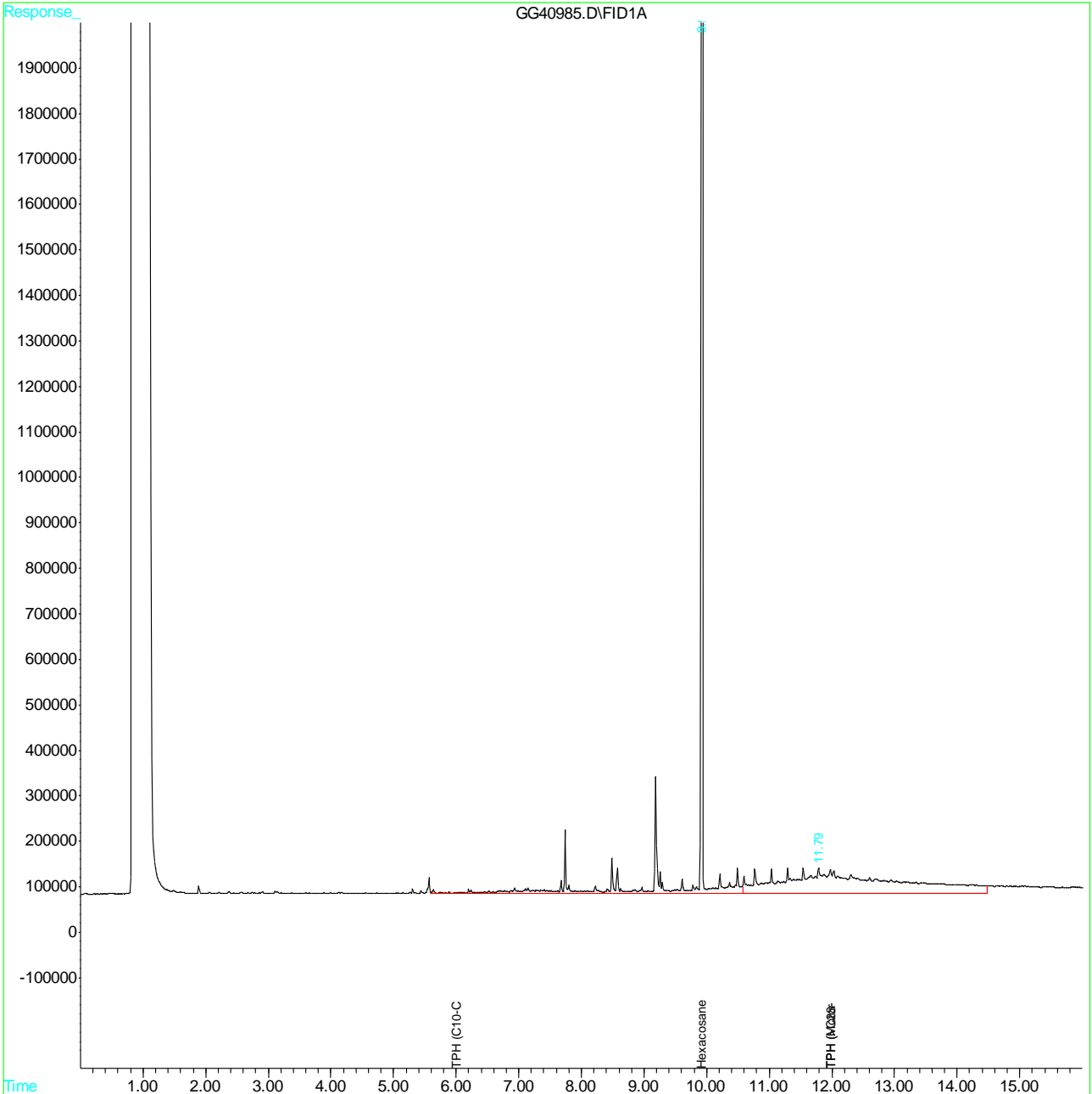
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40985.D GGG1081.M Wed Jan 30 11:58:21 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40985.D Vial: 30  
 Acq On : 1-29-13 7:14:53 PM Operator: LAURAB  
 Sample : C25941-16 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.05,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:57 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.16  
10



Manual Integrations  
**APPROVED**  
 (compounds with "m" flag)  
**Mai Tran**  
**01/30/13 17:28**

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40990.D Vial: 34  
 Acq On : 1-29-13 9:04:25 PM Operator: LAURAB  
 Sample : C25941-17 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.12,,,1,3,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 10:31 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S,M Hexacosane	9.92	19707105	23.311	ppm m
Spiked Amount	100.000	Recovery	=	23.31%
<b>Target Compounds</b>				
2) H,M TPH (C10-C28)	6.00	68364061	71.393	ppm
3) H TPH (>C28-C40)	12.00	206970391	353.226	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	0.00	0	N.D.	ppm
7) H TPH (Motor Oil)	12.00	271848088	465.752	ppm

10.1.17  
10

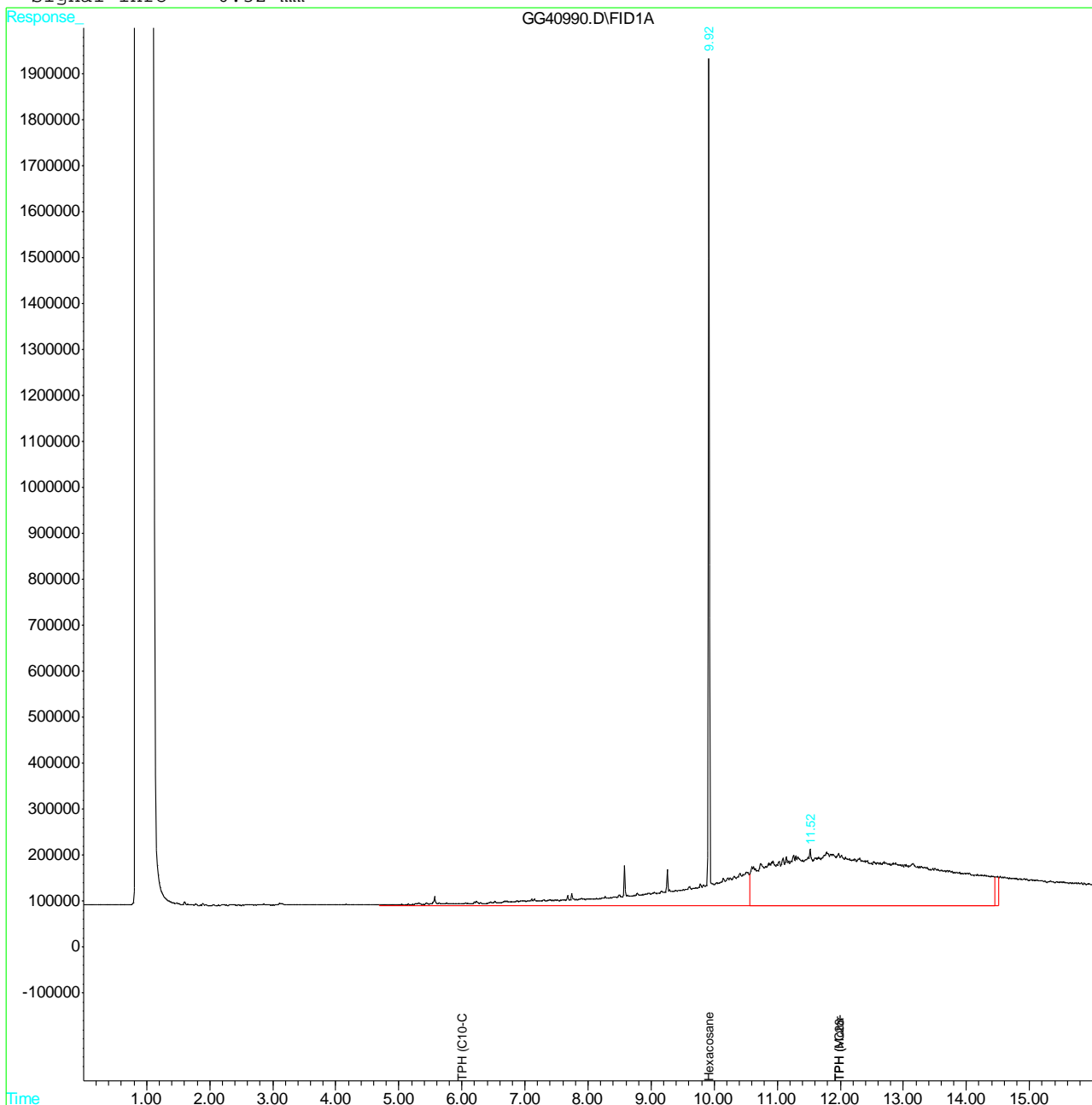
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40990.D GGG1081.M Wed Jan 30 10:31:33 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40990.D Vial: 34  
 Acq On : 1-29-13 9:04:25 PM Operator: LAURAB  
 Sample : C25941-17 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.12,,,1,3,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 10:31 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.17  
10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40986.D Vial: 31  
 Acq On : 1-29-13 7:36:48 PM Operator: LAURAB  
 Sample : C25941-18 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.06,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:53 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	55090915	65.165 ppm
Spiked Amount 100.000		Recovery =	65.17%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	18791862	19.624 ppm
3) H TPH (>C28-C40)	12.00	29247757	49.916 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	6.00	18791862	19.596 ppm
7) H TPH (Motor Oil)	12.00	29247757	50.110 ppm

10.1.18 10

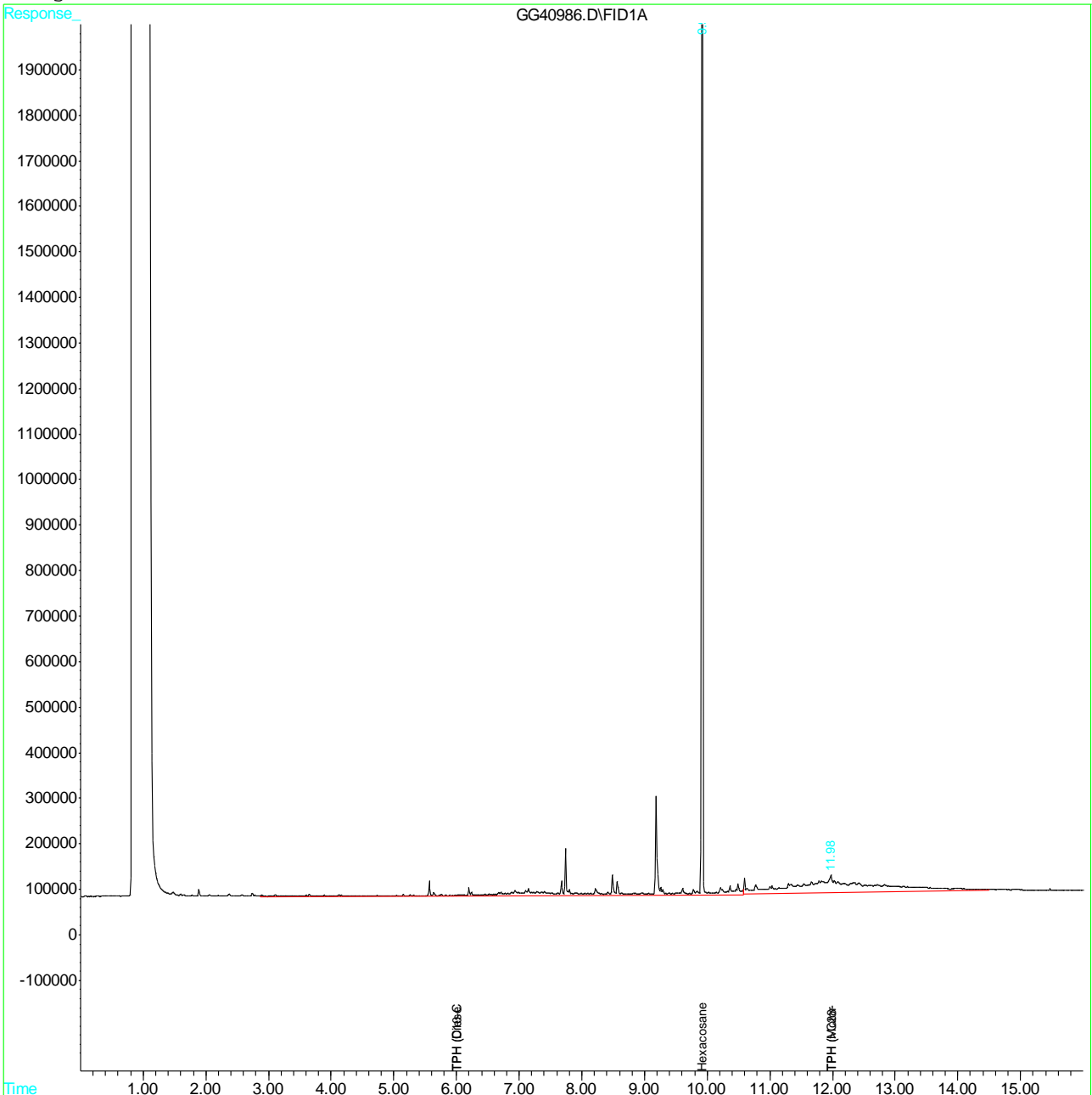
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40986.D GGG1081.M Wed Jan 30 11:53:51 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40986.D Vial: 31  
 Acq On : 1-29-13 7:36:48 PM Operator: LAURAB  
 Sample : C25941-18 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.06,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:53 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.18  
10

Manual Integrations  
**APPROVED**  
 (compounds with "m" flag)  
**Mai Tran**  
**01/30/13 17:28**

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40987.D Vial: 32  
 Acq On : 1-29-13 7:58:40 PM Operator: LAURAB  
 Sample : C25941-19 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.09,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:51 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S,M Hexacosane	9.92	51011434	60.339	ppm m
Spiked Amount	100.000	Recovery	=	60.34%
<b>Target Compounds</b>				
2) H,M TPH (C10-C28)	6.00	12460755	13.013	ppm
3) H TPH (>C28-C40)	12.00	23732727	40.503	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	6.00	12460755	12.994	ppm
7) H TPH (Motor Oil)	12.00	23732727	40.661	ppm

10.1.19 10

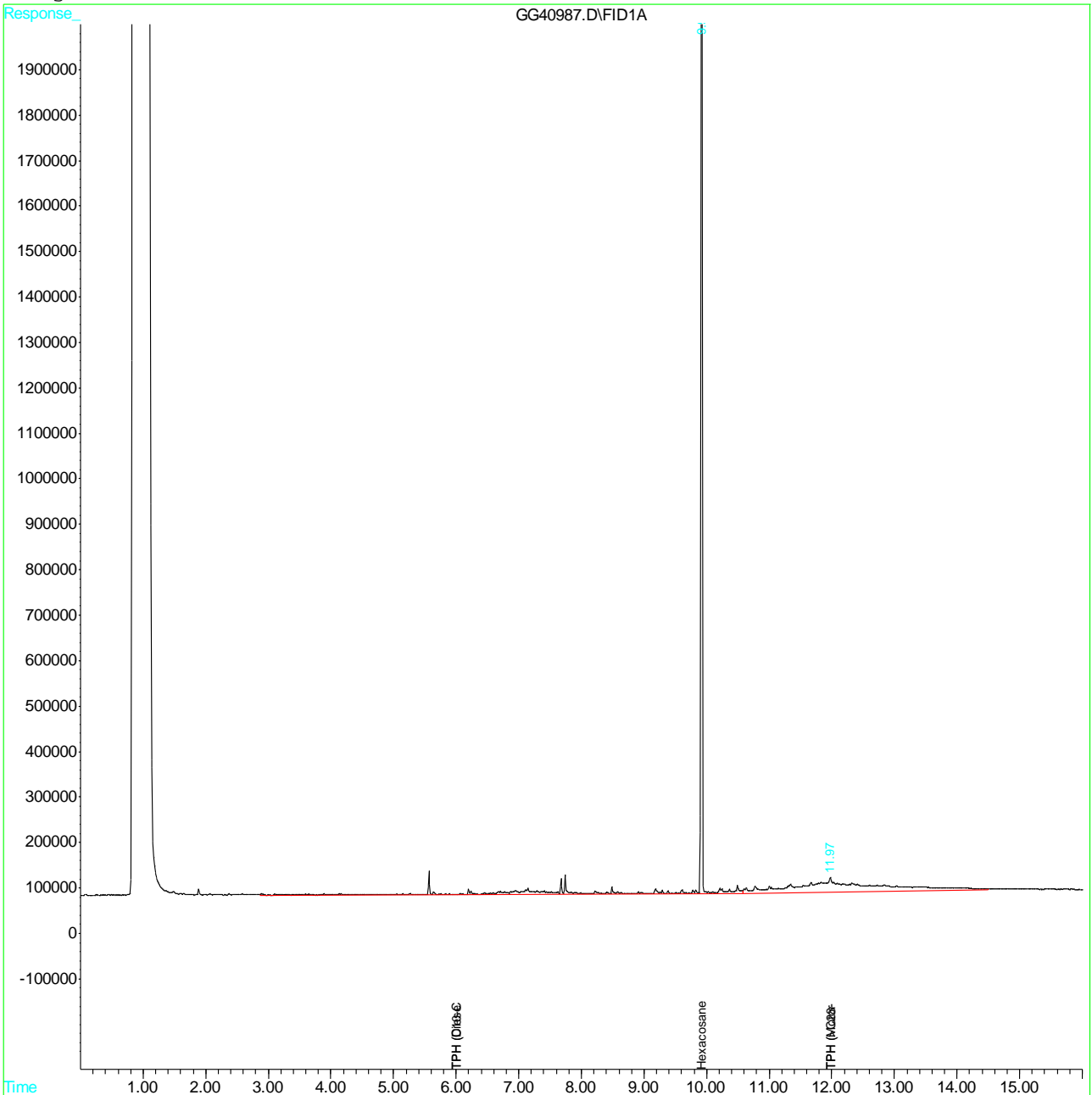
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40987.D GGG1081.M Wed Jan 30 11:51:43 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40987.D Vial: 32  
 Acq On : 1-29-13 7:58:40 PM Operator: LAURAB  
 Sample : C25941-19 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.09,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:51 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.19  
10

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40988.D Vial: 33  
 Acq On : 1-29-13 8:20:32 PM Operator: LAURAB  
 Sample : C25941-20 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.06,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:52 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S,M Hexacosane	9.92	49563138	58.626 ppm
Spiked Amount 100.000		Recovery =	58.63%
Target Compounds			
2) H,M TPH (C10-C28)	6.00	14554113	15.199 ppm
3) H TPH (>C28-C40)	12.00	21573642	36.819 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H,M TPH (Diesel)	6.00	14554113	15.177 ppm
7) H TPH (Motor Oil)	12.00	21573642	36.962 ppm

10.1.20 10

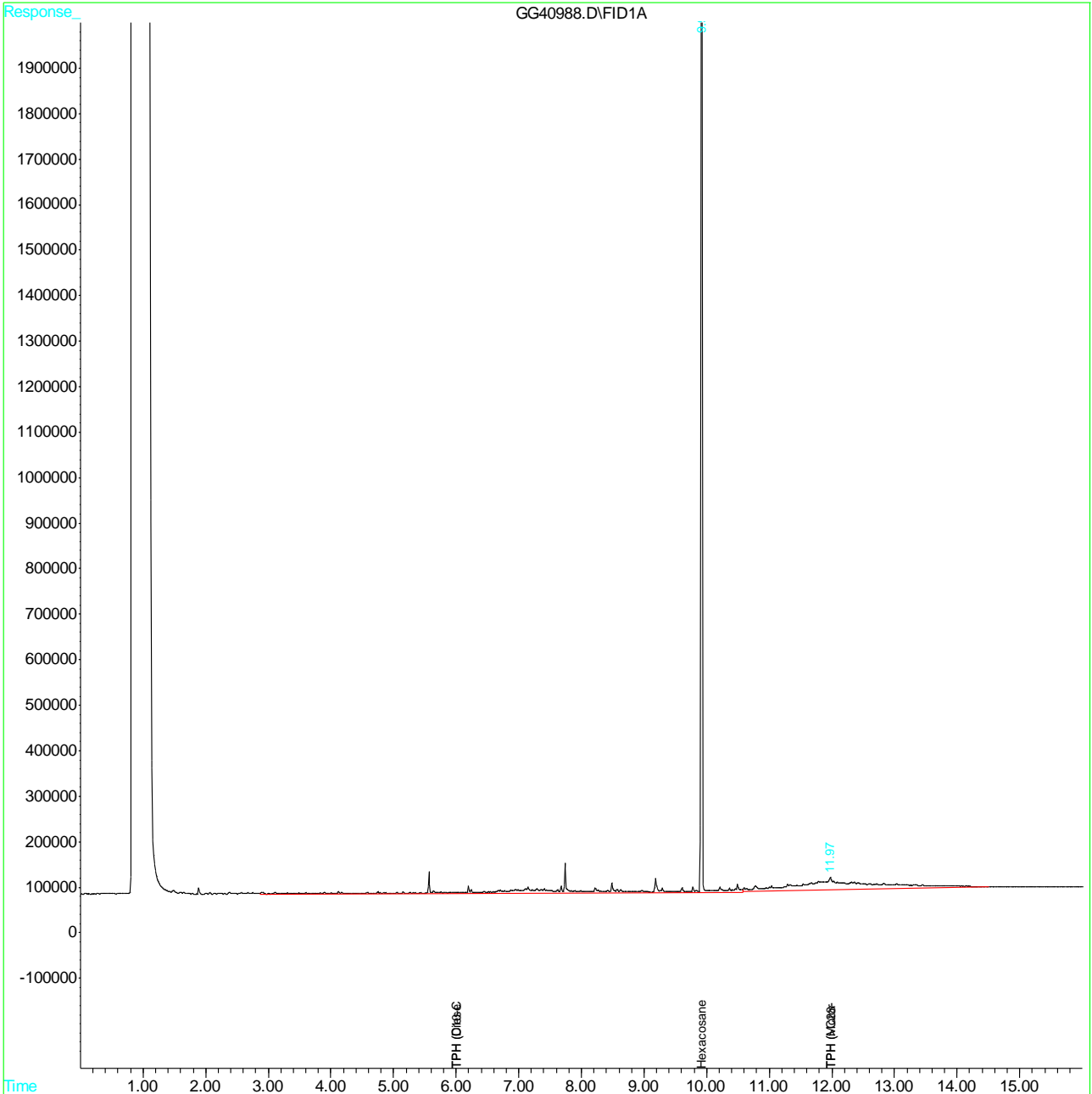
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40988.D GGG1081.M Wed Jan 30 11:53:04 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40988.D Vial: 33  
 Acq On : 1-29-13 8:20:32 PM Operator: LAURAB  
 Sample : C25941-20 Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.06,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 30 11:52 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.1.20  
10



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40958.D Vial: 5  
 Acq On : 1-29-13 9:22:24 AM Operator: LAURAB  
 Sample : OP7406-MB Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.00,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 29 10:32 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Initial Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S,M Hexacosane	9.92	66819901	79.039	ppm m
Spiked Amount	100.000	Recovery	=	79.04%
<b>Target Compounds</b>				
2) H,M TPH (C10-C28)	6.00	14033630	14.655	ppm
3) H TPH (>C28-C40)	12.00	25001779	42.669	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	6.00	14033630	14.634	ppm
7) H TPH (Motor Oil)	12.00	25001779	42.835	ppm

10.2.1  
10

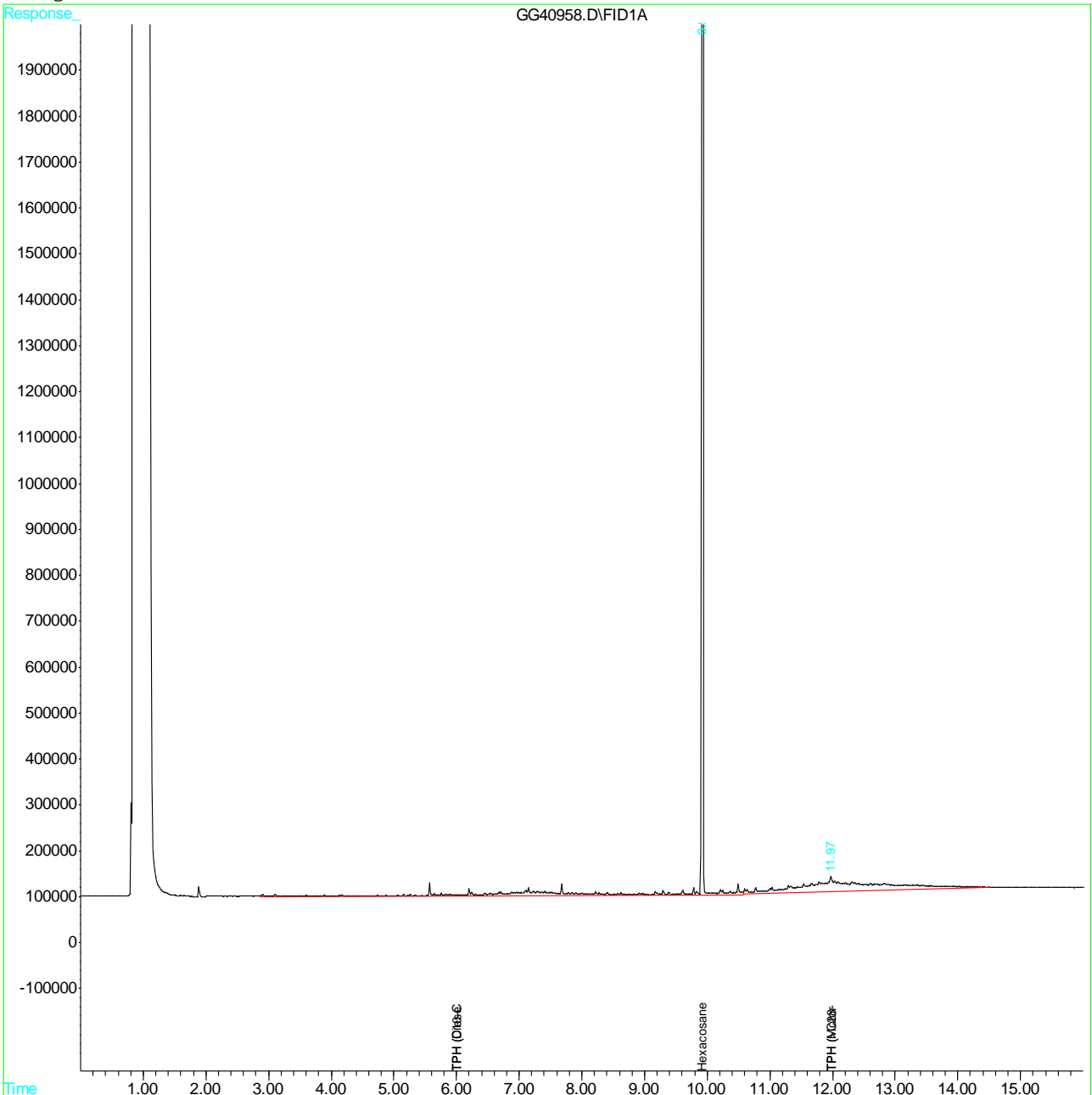
(f)=RT Delta > 1/2 Window (m)=manual int.  
 GG40958.D GGG1081.M Tue Jan 29 10:32:41 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1084\GG40958.D Vial: 5  
 Acq On : 1-29-13 9:22:24 AM Operator: LAURAB  
 Sample : OP7406-MB Inst : Diesel #2  
 Misc : OP7406,GGG1084,10.00,,,1,1,S Multiplr: 1.00  
 IntFile : autoint1.e  
 Quant Time: Jan 29 10:32 2013 Quant Results File: GGG1081.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1081.M (Chemstation Integrator)  
 Title : DRO calibration: Back column  
 Last Update : Fri Jan 25 11:26:09 2013  
 Response via : Multiple Level Calibration  
 DataAcq Meth : ACQ\_GG1.M

Volume Inj. : 1.0 uL  
 Signal Phase : HP-5  
 Signal Info : 0.32 mm



10.2.1  
10