



01/15/13

Technical Report for

XTO Energy

XTO Love Ranch 8

1108-07A

Accutest Job Number: D42509

Sampling Date: 01/08/13

Report to:

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Total number of pages in report: 57



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.


Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1)

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Test results relate only to samples analyzed.

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Sample Summary

XTO Energy

Job No: D42509

XTO Love Ranch 8
Project No: 1108-07A

Sample Number	Collected		Time By	Received	Matrix		Client Sample ID
	Date				Code	Type	
D42509-1	01/08/13	09:30	DS	01/10/13	SO	Soil	FW SUBLINER-2' (1)
D42509-2	01/08/13	09:40	DS	01/10/13	SO	Soil	FW SUBLINER-2' (3)
D42509-3	01/08/13	09:50	DS	01/10/13	SO	Soil	FW SUBLINER-2' (4)

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



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: XTO Energy

Job No D42509

Site: XTO Love Ranch 8

Report Date 1/15/2013 1:28:16 PM

On 01/10/2013, 3 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 5.6 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D42509 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method SW846 8015B

Matrix SO

Batch ID: GGB1044

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D42435-1MS, D42435-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO

Batch ID: OP7222

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D42509-2MS, D42509-2MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO

Batch ID: GN18390

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits

Page 1 of 1

Job Number: D42509
Account: XTO Energy
Project: XTO Love Ranch 8
Collected: 01/08/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D42509-1	FW SUBLINER-2' (1)					
TPH-DRO (C10-C28)		123	8.0	4.8	mg/kg	SW846-8015B
D42509-2	FW SUBLINER-2' (3)					
TPH-DRO (C10-C28)		46.1	7.3	4.4	mg/kg	SW846-8015B
D42509-3	FW SUBLINER-2' (4)					
TPH-DRO (C10-C28)		265	7.6	4.5	mg/kg	SW846-8015B

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	FW SUBLINER-2' (1)	Date Sampled:	01/08/13
Lab Sample ID:	D42509-1	Date Received:	01/10/13
Matrix:	SO - Soil	Percent Solids:	83.1
Method:	SW846 8015B		
Project:	XTO Love Ranch 8		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB19108.D	1	01/11/13	SK	n/a	n/a	GGB1044
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	14	7.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	90%		60-140%		

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

Page 1 of 1

Client Sample ID:	FW SUBLINER-2' (1)	Date Sampled:	01/08/13
Lab Sample ID:	D42509-1	Date Received:	01/10/13
Matrix:	SO - Soil	Percent Solids:	83.1
Method:	SW846-8015B SW846 3546		
Project:	XTO Love Ranch 8		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH008570.D	1	01/15/13	AV	01/14/13	OP7222	GFH472
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	123	8.0	4.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	69%		35-130%		

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

Page 1 of 1

Client Sample ID:	FW SUBLINER-2' (3)	Date Sampled:	01/08/13
Lab Sample ID:	D42509-2	Date Received:	01/10/13
Matrix:	SO - Soil	Percent Solids:	90.6
Method:	SW846 8015B		
Project:	XTO Love Ranch 8		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB19109.D	1	01/11/13	SK	n/a	n/a	GGB1044
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	87%		60-140%		

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

Page 1 of 1

Client Sample ID:	FW SUBLINER-2' (3)	Date Sampled:	01/08/13
Lab Sample ID:	D42509-2	Date Received:	01/10/13
Matrix:	SO - Soil	Percent Solids:	90.6
Method:	SW846-8015B SW846 3546		
Project:	XTO Love Ranch 8		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH008572.D	1	01/15/13	AV	01/14/13	OP7222	GFH472
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	46.1	7.3	4.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	74%		35-130%		

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

Page 1 of 1

Client Sample ID:	FW SUBLINER-2' (4)	Date Sampled:	01/08/13
Lab Sample ID:	D42509-3	Date Received:	01/10/13
Matrix:	SO - Soil	Percent Solids:	87.6
Method:	SW846 8015B		
Project:	XTO Love Ranch 8		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB19110.D	1	01/11/13	SK	n/a	n/a	GGB1044
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	13	6.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	90%		60-140%		

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

Page 1 of 1

Client Sample ID:	FW SUBLINER-2' (4)	Date Sampled:	01/08/13
Lab Sample ID:	D42509-3	Date Received:	01/10/13
Matrix:	SO - Soil	Percent Solids:	87.6
Method:	SW846-8015B SW846 3546		
Project:	XTO Love Ranch 8		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH008574.D	1	01/15/13	AV	01/14/13	OP7222	GFH472
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	265	7.6	4.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	55%		35-130%		

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

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D42509

Client: KRW

Immediate Client Services Action Required: No

Date / Time Received: 1/10/2013 1:00:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project: XTO LOVERANCH 8

Airbill #'s: HDCO

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			Infrared gun
3. Cooler media:			Ice (bag)

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

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

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

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

Comments

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Wheat Ridge, CO
www.accutest.com

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

Job Number: D42509**Account:** XTOKRWR XTO Energy**Project:** XTO Love Ranch 8

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB1044-MB	GB19088.D	1	01/10/13	SK	n/a	n/a	GGB1044

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

D42509-1, D42509-2, D42509-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	87% 60-140%

Blank Spike Summary

Page 1 of 1

Job Number: D42509
Account: XTOKRWR XTO Energy
Project: XTO Love Ranch 8

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB1044-BS	GB19089.D	1	01/10/13	SK	n/a	n/a	GGB1044

The QC reported here applies to the following samples:

Method: SW846 8015B

D42509-1, D42509-2, D42509-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	123	112	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	104%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D42509
Account: XTOKRWR XTO Energy
Project: XTO Love Ranch 8

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D42435-1MS	GB19091.D	1	01/10/13	SK	n/a	n/a	GGB1044
D42435-1MSD	GB19092.D	1	01/10/13	SK	n/a	n/a	GGB1044
D42435-1	GB19090.D	1	01/10/13	SK	n/a	n/a	GGB1044

The QC reported here applies to the following samples:

Method: SW846 8015B

D42509-1, D42509-2, D42509-3

CAS No.	Compound	D42435-1 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	127	140	111	140	111	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D42435-1	Limits
120-82-1	1,2,4-Trichlorobenzene	92%	95%	93%	60-140%

* = Outside of Control Limits.

GC Volatiles

Raw Data

7

Judy Melson
01/11/13 11:39

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\011013\GB19108.D\FID1A.CH Vial: 23
Signal #2 : Y:\1\DATA\011013\GB19108.D\FID2B.CH
Acq On : 11 Jan 2013 3:51 am Operator: StephK
Sample : D42509-1, 50X Inst : GC/MS Ins
Misc : GC3347,GGB1044,5.023,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jan 11 08:57:16 2013 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Jan 10 16:31:50 2013
Response via : Initial Calibration
DataAcq Meth : TVB4.M

Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
2) S 1,2,4-Trichlorobenzene	14.36	2824757	90.150 %	m
10) S 1,2,4-Trichlorobenzene (P)	14.36	14119042	86.872 %	
Target Compounds				
1) H TVH-Gasoline	7.23	4054921	<MDL	mg/L
4) T Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T Benzene	0.00	0	N.D.	ug/L d
6) T Toluene	7.65	86374	0.218	ug/L
7) T Ethylbenzene	0.00	0	N.D.	ug/L d
8) T m,p-Xylene	0.00	0	N.D.	ug/L d
9) T o-Xylene	0.00	0	N.D.	ug/L d
11) T Naphthalene	14.56	315037	1.597	ug/L m

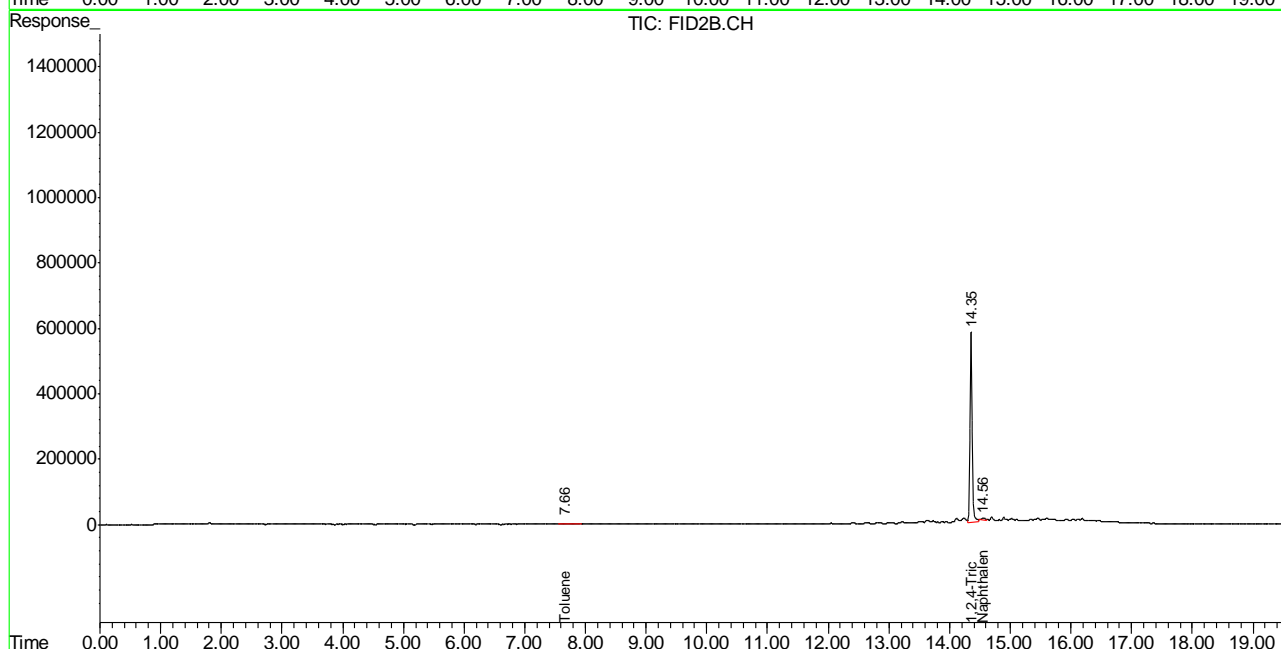
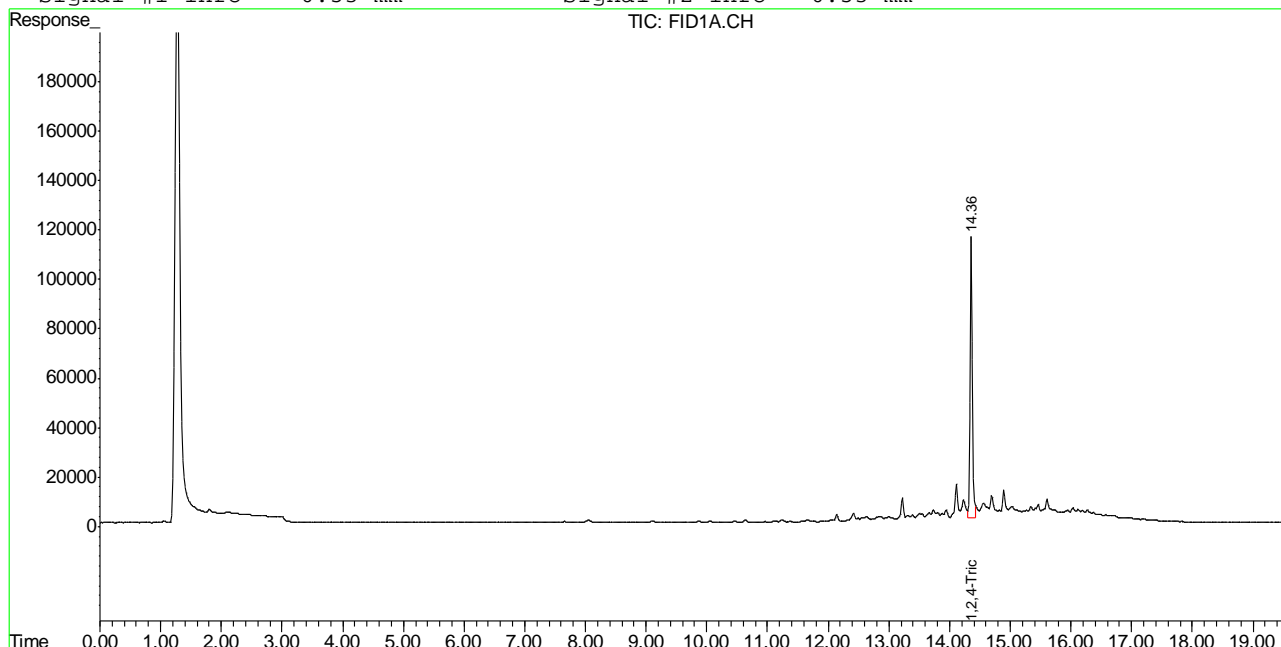
(f)=RT Delta > 1/2 Window (m)=manual int.
GB19108.D TB868GB868SOIL.M Fri Jan 11 09:08:47 2013 GC

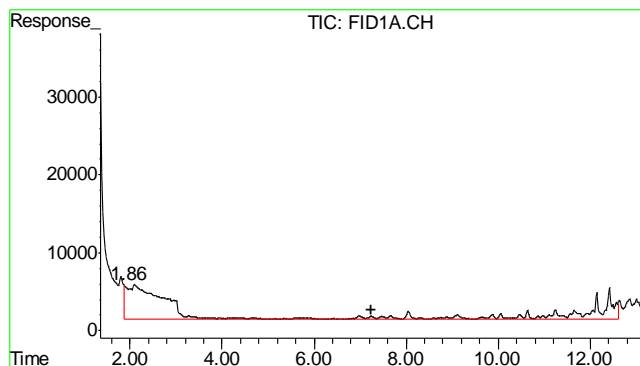
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\011013\GB19108.D\FID1A.CH Vial: 23
 Signal #2 : Y:\1\DATA\011013\GB19108.D\FID2B.CH
 Acq On : 11 Jan 2013 3:51 am Operator: StephK
 Sample : D42509-1, 50X Inst : GC/MS Ins
 Misc : GC3347,GGB1044,5.023,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Jan 11 9:04 2013 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Jan 10 16:31:50 2013
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

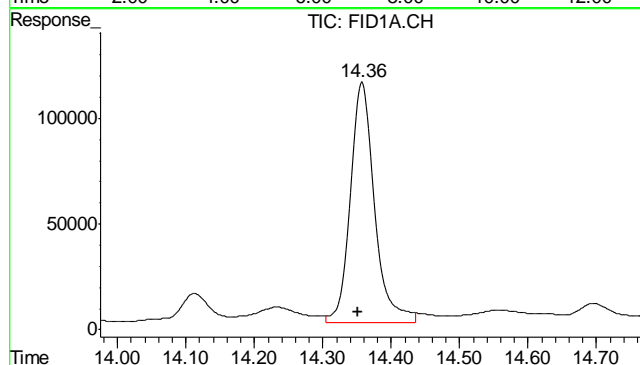
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





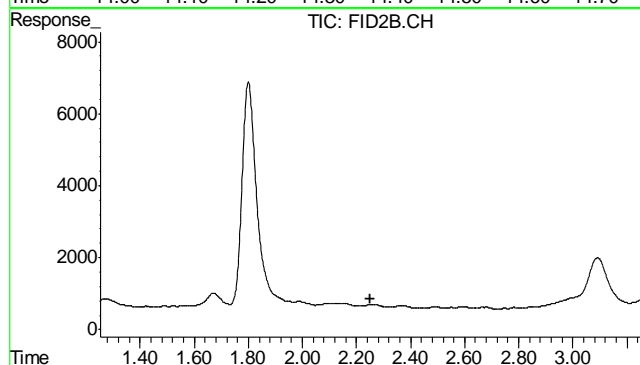
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 4054921
Conc: N.D.



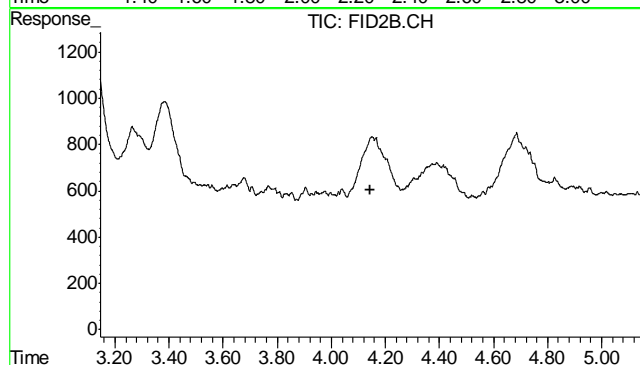
#2 1,2,4-Trichlorobenzene

R.T.: 14.357 min
Delta R.T.: 0.006 min
Response: 2824757
Conc: 90.15 % m



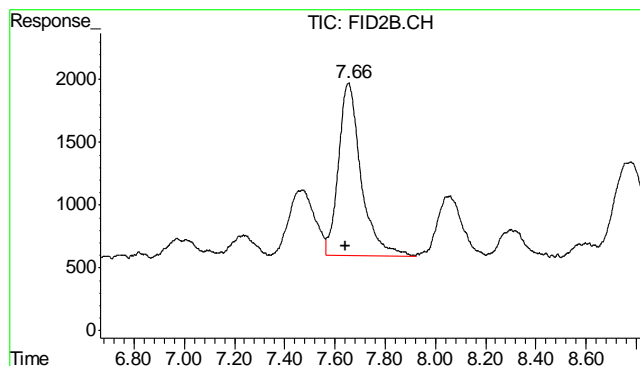
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.252 min
Response: 0
Conc: N.D.



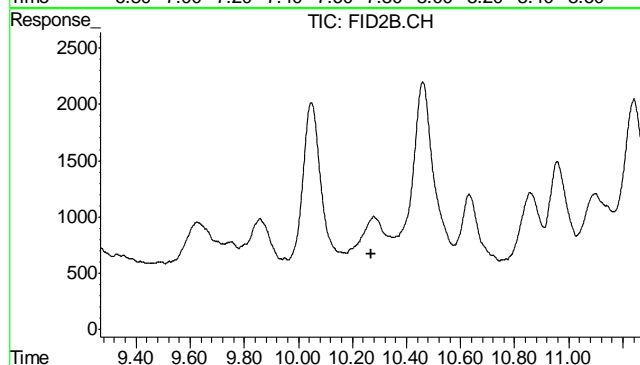
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.145 min
Response: 0
Conc: N.D.



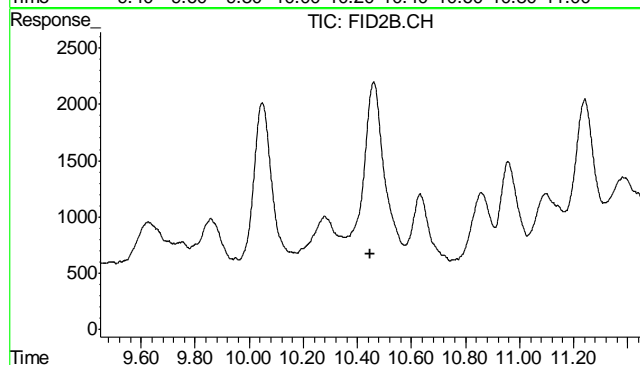
#6 Toluene

R.T.: 7.655 min
Delta R.T.: 0.011 min
Response: 86374
Conc: 0.22 ug/L



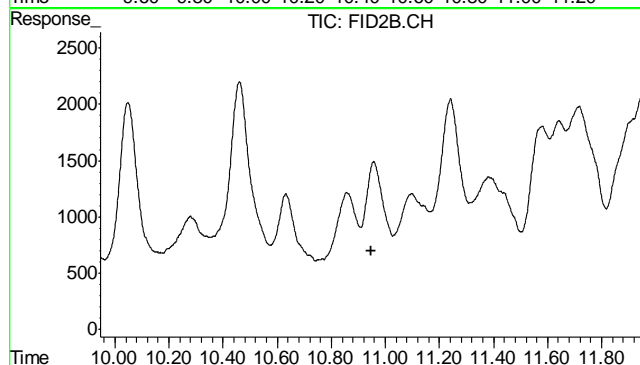
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T.: 10.268 min
Response: 0
Conc: N.D.



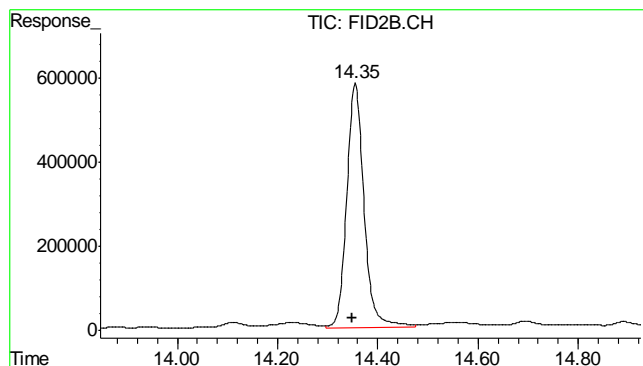
#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T.: 10.449 min
Response: 0
Conc: N.D.



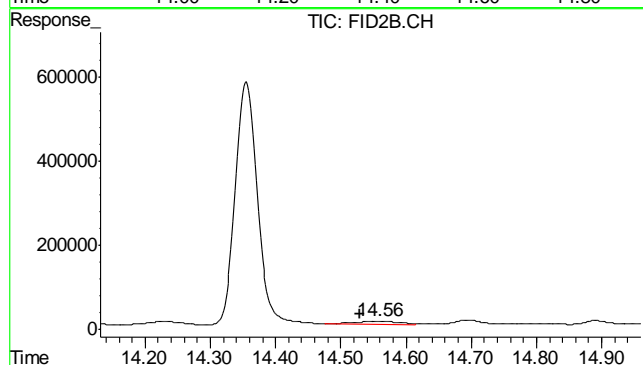
#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.946 min
Response: 0
Conc: N.D.



#10 1,2,4-Trichlorobenzene (P)

R.T.: 14.355 min
Delta R.T.: 0.007 min
Response: 14119042
Conc: 86.87 %



#11 Naphthalene

R.T.: 14.557 min
Delta R.T.: 0.026 min
Response: 315037
Conc: 1.60 ug/L m

7.1.1
7

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\011013\GB19109.D\FID1A.CH Vial: 24
 Signal #2 : Y:\1\DATA\011013\GB19109.D\FID2B.CH
 Acq On : 11 Jan 2013 4:26 am Operator: StephK
 Sample : D42509-2, 50X Inst : GC/MS Ins
 Misc : GC3347,GGB1044,5.008,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Jan 11 08:57:20 2013 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Jan 10 16:31:50 2013
 Response via : Initial Calibration
 DataAcq Meth : TVB4.M

Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm

	Compound	R.T.	Response	Conc	Units

System Monitoring Compounds					
2) S	1,2,4-Trichlorobenzene	14.36	2714758	86.639	%
10) S	1,2,4-Trichlorobenzene (P)	14.36	13708346	84.345	%
Target Compounds					
1) H	TVH-Gasoline	7.23	3418819	<MDL	mg/L
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T	Benzene	0.00	0	N.D.	ug/L d
6) T	Toluene	7.65	87821	0.222	ug/L
7) T	Ethylbenzene	0.00	0	N.D.	ug/L d
8) T	m,p-Xylene	0.00	0	N.D.	ug/L d
9) T	o-Xylene	0.00	0	N.D.	ug/L d
11) T	Naphthalene	14.54	21043	0.107	ug/L m

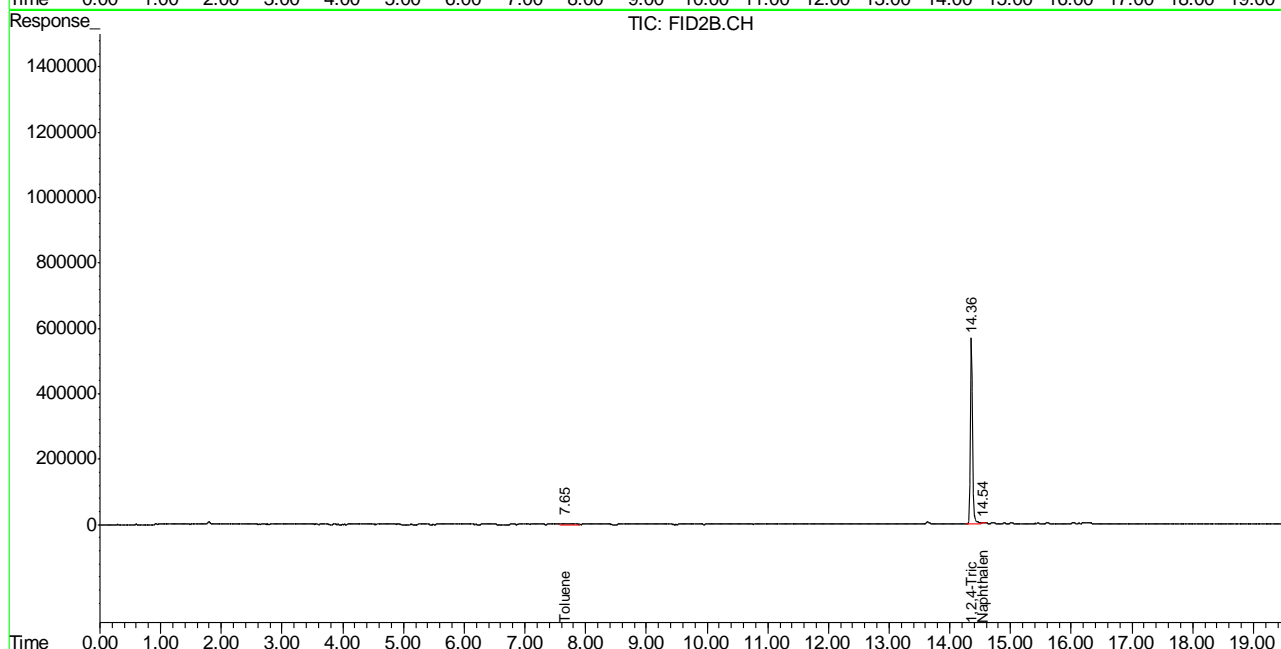
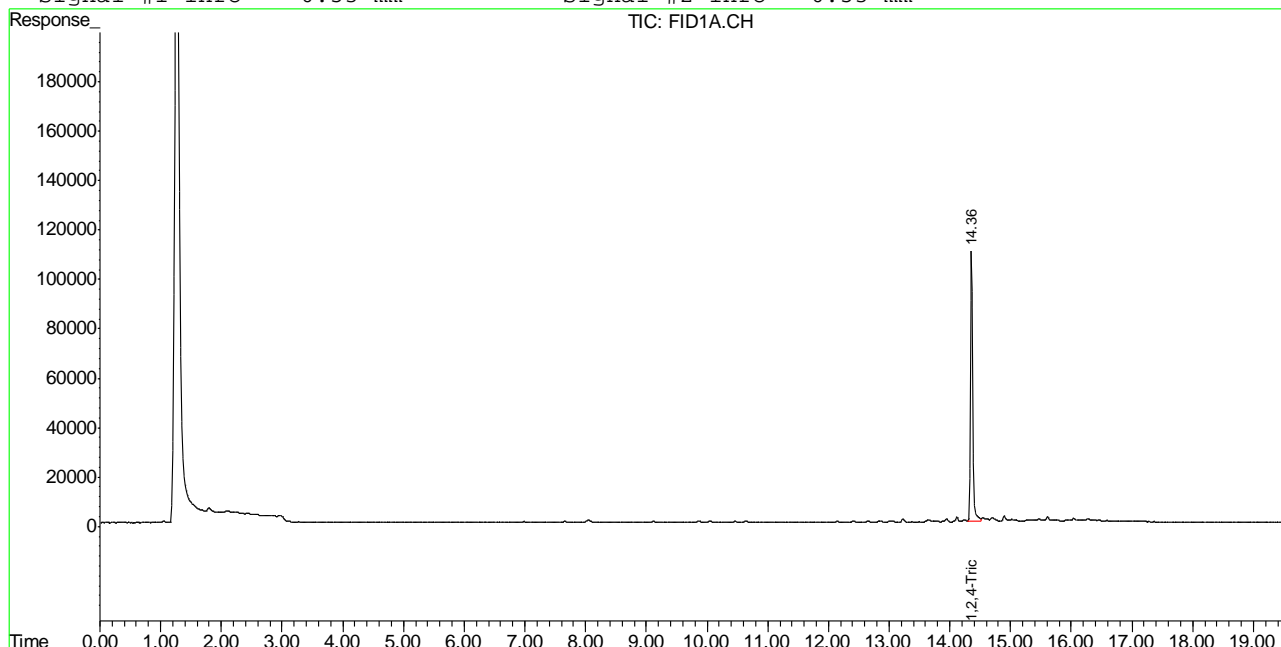
(f)=RT Delta > 1/2 Window (m)=manual int.
 GB19109.D TB868GB868SOIL.M Fri Jan 11 09:08:50 2013 GC

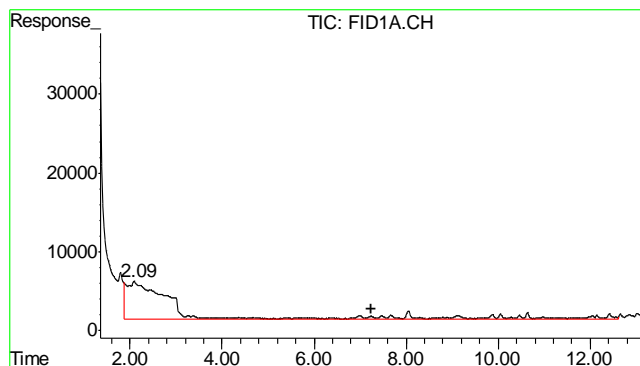
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\011013\GB19109.D\FID1A.CH Vial: 24
 Signal #2 : Y:\1\DATA\011013\GB19109.D\FID2B.CH
 Acq On : 11 Jan 2013 4:26 am Operator: StephK
 Sample : D42509-2, 50X Inst : GC/MS Ins
 Misc : GC3347,GGB1044,5.008,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Jan 11 9:04 2013 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Jan 10 16:31:50 2013
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

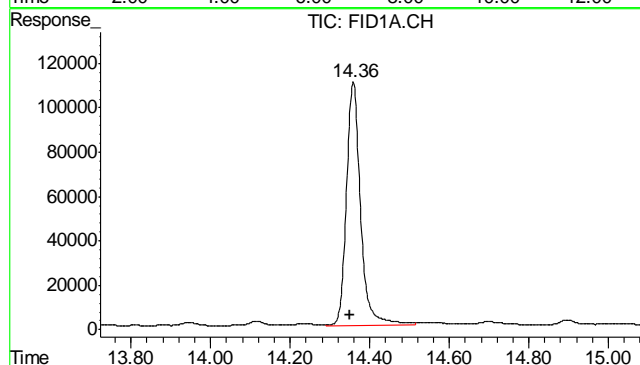
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





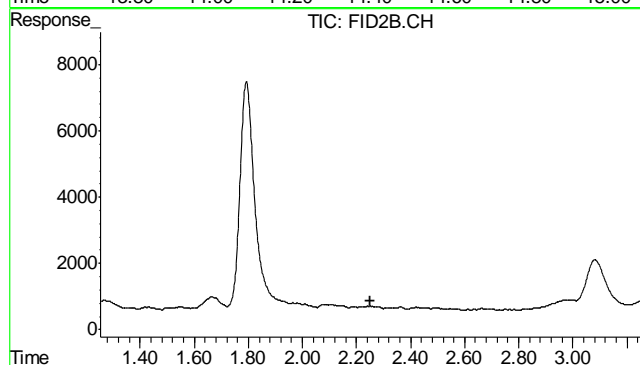
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 3418819
Conc: N.D.



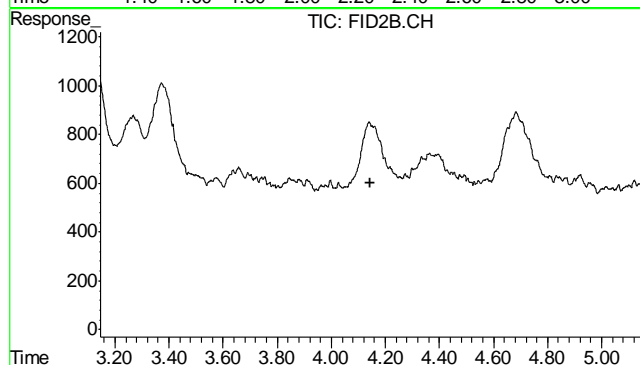
#2 1,2,4-Trichlorobenzene

R.T.: 14.359 min
Delta R.T.: 0.008 min
Response: 2714758
Conc: 86.64 %



#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.252 min
Response: 0
Conc: N.D.

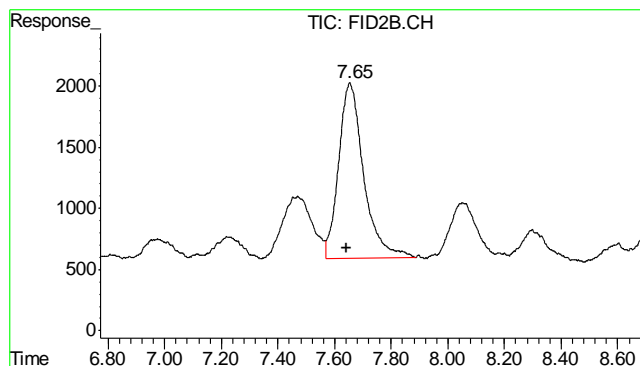


#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.145 min
Response: 0
Conc: N.D.

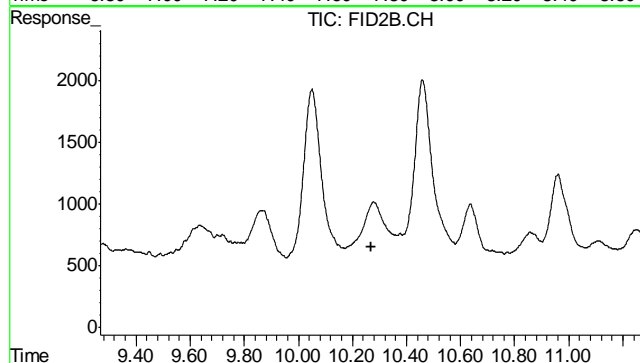
7.1.2

7



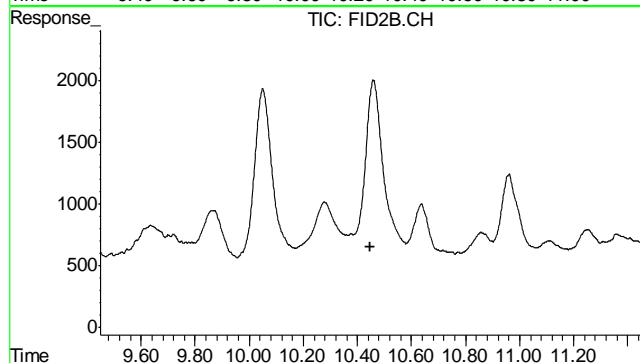
#6 Toluene

R.T.: 7.654 min
Delta R.T.: 0.010 min
Response: 87821
Conc: 0.22 ug/L



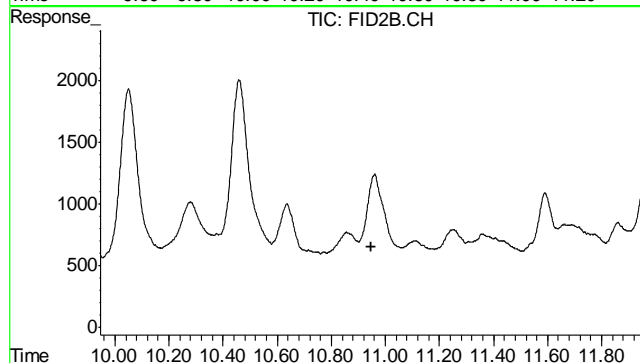
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T. : 10.268 min
Response: 0
Conc: N.D.



#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T. : 10.449 min
Response: 0
Conc: N.D.

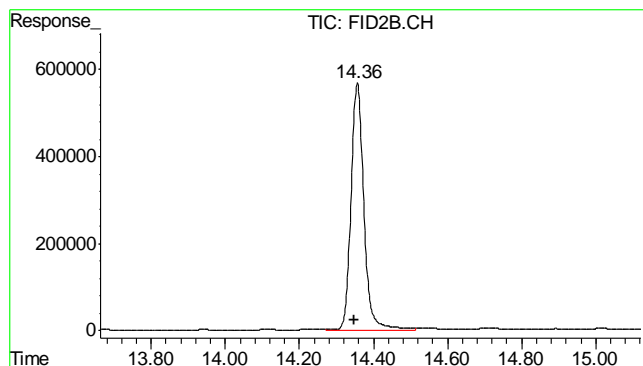


#9 o-Xylene

R.T.: 0.000 min
Exp R.T. : 10.946 min
Response: 0
Conc: N.D.

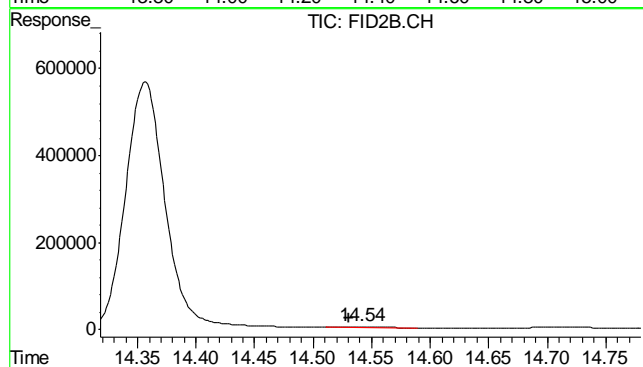
7.1.2

7



#10 1,2,4-Trichlorobenzene (P)

R.T.: 14.357 min
 Delta R.T.: 0.008 min
 Response: 13708346
 Conc: 84.34 %



#11 Naphthalene

R.T.: 14.540 min
 Delta R.T.: 0.010 min
 Response: 21043
 Conc: 0.11 ug/L m

7.1.2

7

Judy Melson
01/11/13 11:39

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\011013\GB19110.D\FID1A.CH Vial: 25
 Signal #2 : Y:\1\DATA\011013\GB19110.D\FID2B.CH
 Acq On : 11 Jan 2013 5:02 am Operator: StephK
 Sample : D42509-3, 50X Inst : GC/MS Ins
 Misc : GC3347,GGB1044,5.054,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Jan 11 08:57:24 2013 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Jan 10 16:31:50 2013
 Response via : Initial Calibration
 DataAcq Meth : TVB4.M

Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
2) S 1,2,4-Trichlorobenzene	14.35	2825362	90.169 %	m
10) S 1,2,4-Trichlorobenzene (P)	14.35	13975879	85.991 %	m
Target Compounds				
1) H TVH-Gasoline	7.23	4828393	<MDL	mg/L
4) T Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T Benzene	0.00	0	N.D.	ug/L d
6) T Toluene	0.00	0	N.D.	ug/L d
7) T Ethylbenzene	0.00	0	N.D.	ug/L d
8) T m,p-Xylene	0.00	0	N.D.	ug/L d
9) T o-Xylene	0.00	0	N.D.	ug/L d
11) T Naphthalene	14.56	1521632	7.712	ug/L m

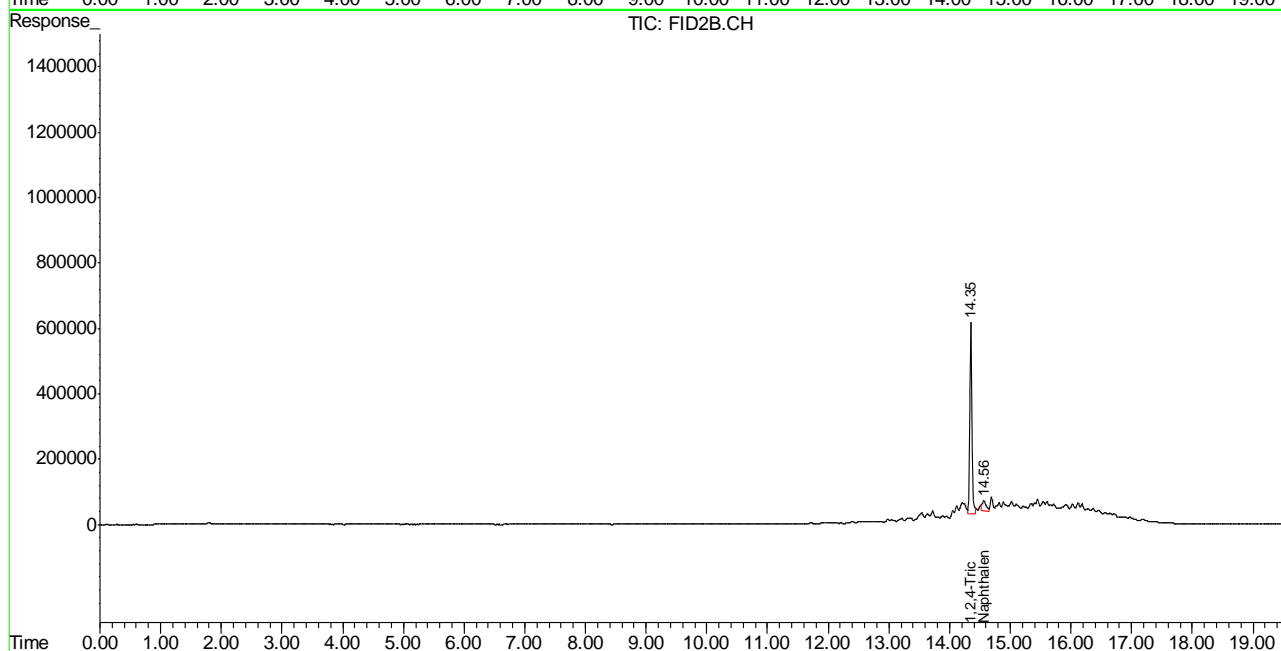
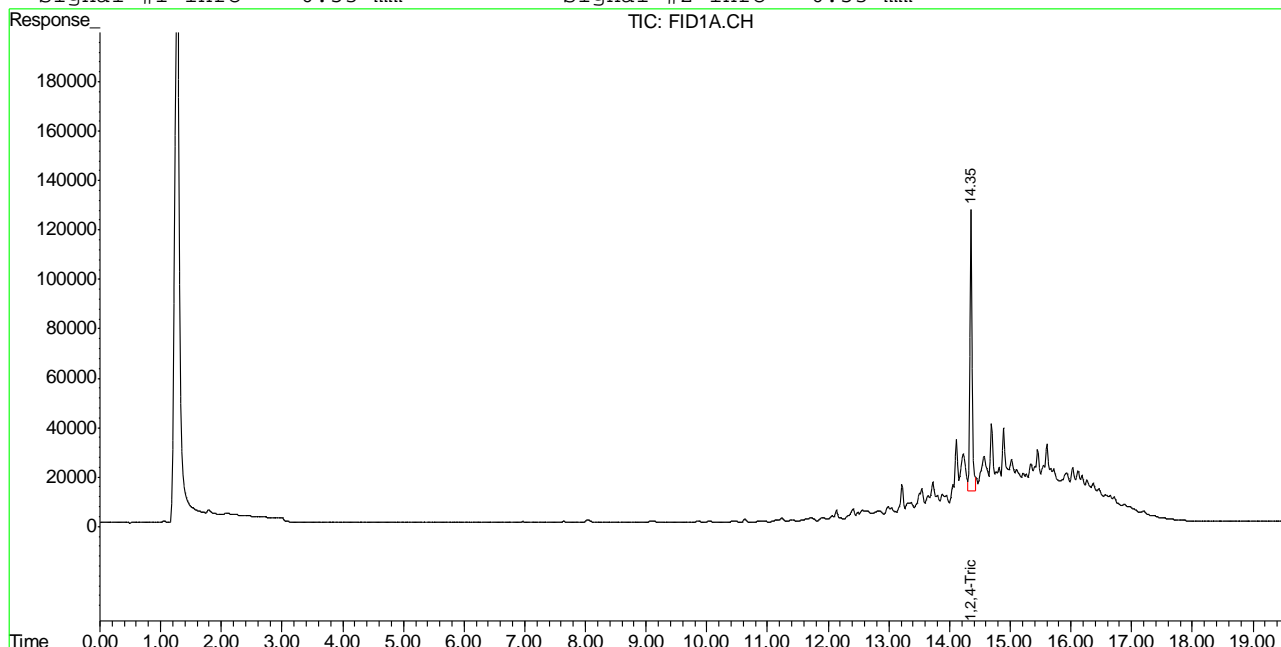
(f)=RT Delta > 1/2 Window (m)=manual int.
 GB19110.D TB868GB868SOIL.M Fri Jan 11 09:08:53 2013 GC

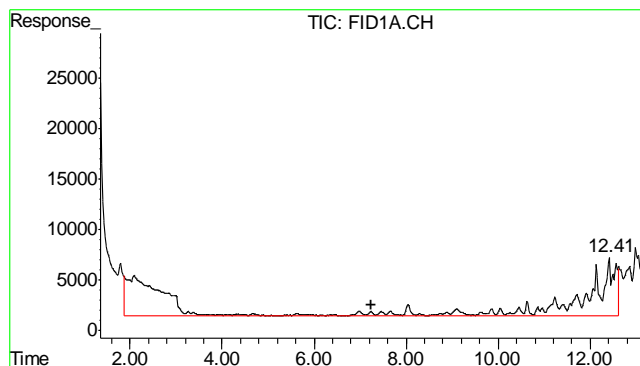
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\011013\GB19110.D\FID1A.CH Vial: 25
 Signal #2 : Y:\1\DATA\011013\GB19110.D\FID2B.CH
 Acq On : 11 Jan 2013 5:02 am Operator: StephK
 Sample : D42509-3, 50X Inst : GC/MS Ins
 Misc : GC3347,GGB1044,5.054,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Jan 11 9:05 2013 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Jan 10 16:31:50 2013
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

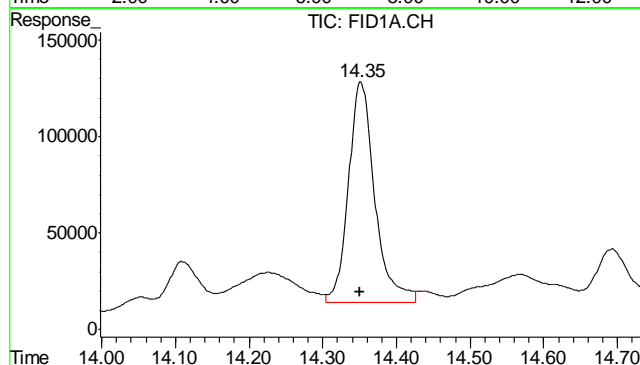
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





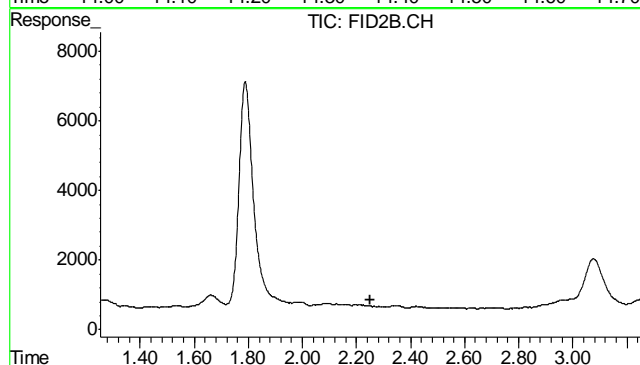
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 4828393
Conc: N.D.



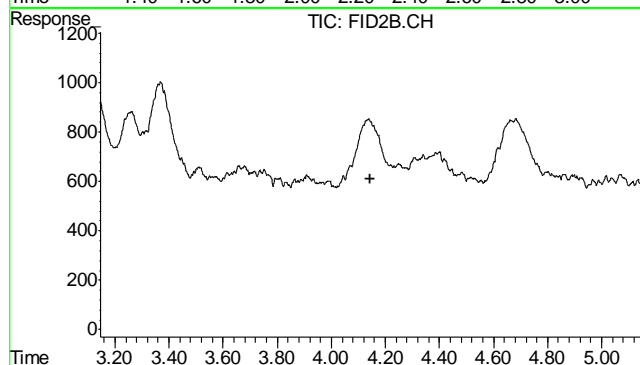
#2 1,2,4-Trichlorobenzene

R.T.: 14.351 min
Delta R.T.: 0.000 min
Response: 2825362
Conc: 90.17 % m



#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.252 min
Response: 0
Conc: N.D.

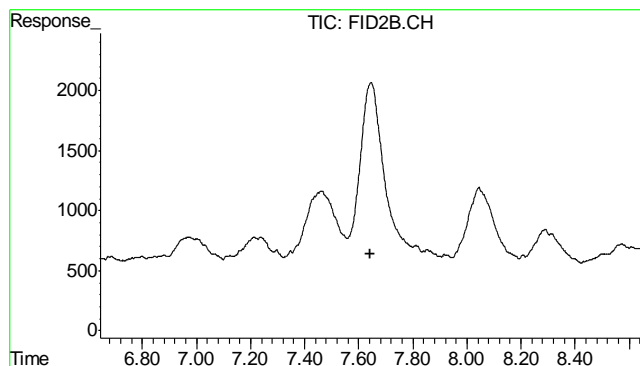


#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.145 min
Response: 0
Conc: N.D.

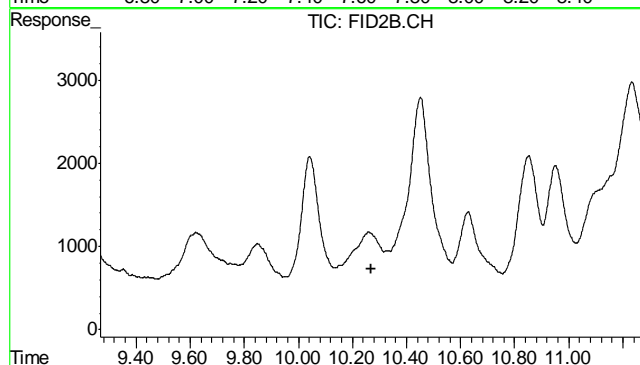
7.1.3

7



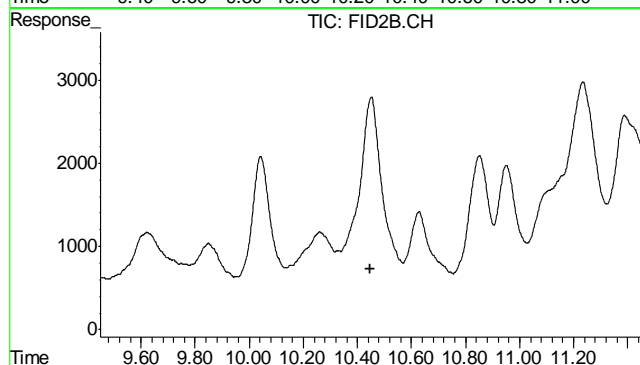
#6 Toluene

R.T.: 0.000 min
Exp R.T.: 7.644 min
Response: 0
Conc: N.D.



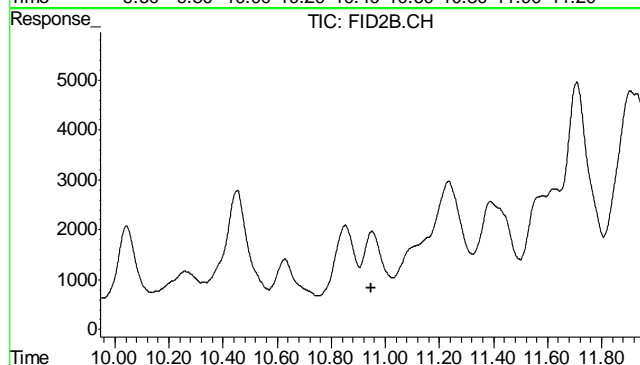
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T.: 10.268 min
Response: 0
Conc: N.D.



#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T.: 10.449 min
Response: 0
Conc: N.D.

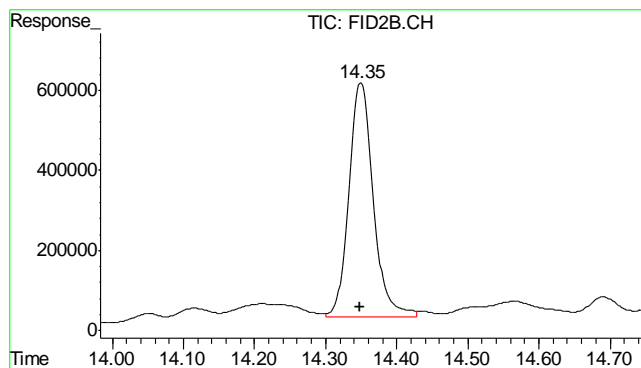


#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.946 min
Response: 0
Conc: N.D.

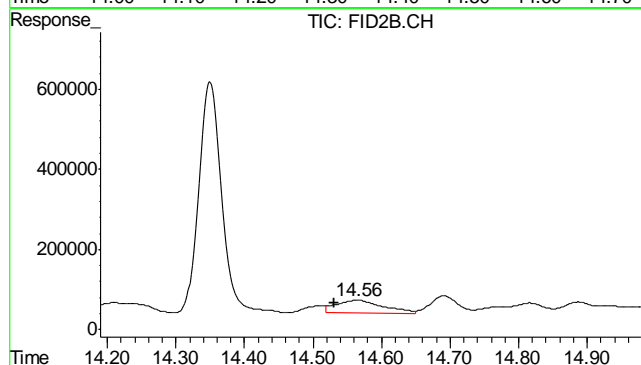
7.1.3

7



#10 1,2,4-Trichlorobenzene (P)

R.T.: 14.349 min
 Delta R.T.: 0.000 min
 Response: 13975879
 Conc: 85.99 % m



#11 Naphthalene

R.T.: 14.564 min
 Delta R.T.: 0.034 min
 Response: 1521632
 Conc: 7.71 ug/L m

7.1.3

7

Judy Melson
01/11/13 11:38

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\011013\GB19088.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\011013\GB19088.D\FID2B.CH
Acq On : 10 Jan 2013 4:00 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC3347,GGB1044,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jan 10 16:32:09 2013 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Jan 10 16:31:50 2013
Response via : Initial Calibration
DataAcq Meth : TVB4.M

Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
2) S 1,2,4-Trichlorobenzene	14.35	2717831	86.737 %	m
10) S 1,2,4-Trichlorobenzene (P)	14.35	13731194	84.485 %	
Target Compounds				
1) H TVH-Gasoline	7.23	3461894	<MDL	mg/L
4) T Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T Benzene	0.00	0	N.D.	ug/L d
6) T Toluene	7.64	126661	0.320	ug/L
7) T Ethylbenzene	0.00	0	N.D.	ug/L d
8) T m,p-Xylene	0.00	0	N.D.	ug/L d
9) T o-Xylene	0.00	0	N.D.	ug/L d
11) T Naphthalene	14.54	24002	0.122	ug/L m

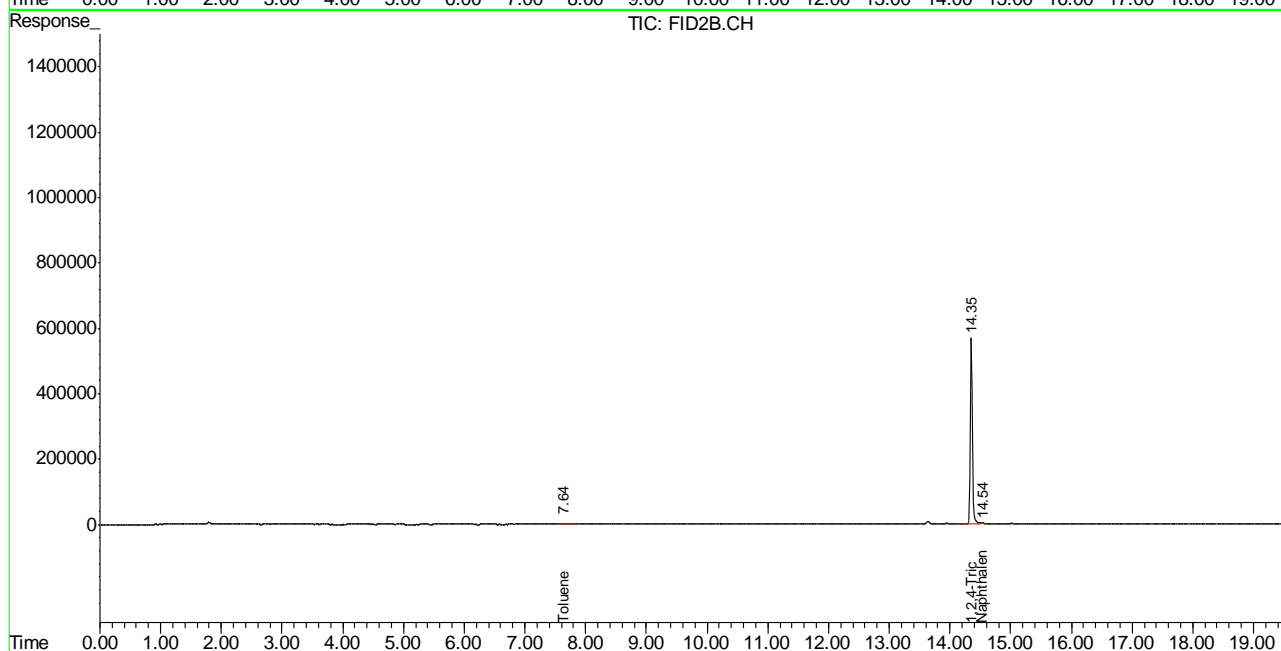
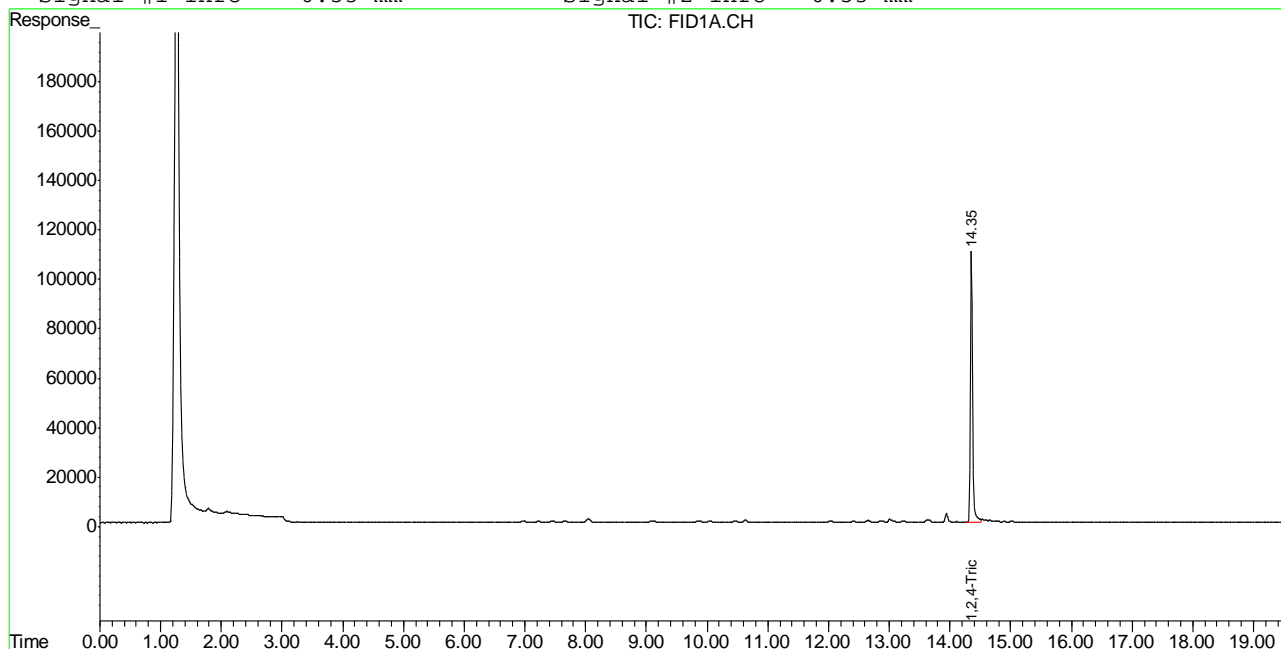
(f)=RT Delta > 1/2 Window (m)=manual int.
GB19088.D TB868GB868SOIL.M Fri Jan 11 09:07:47 2013 GC

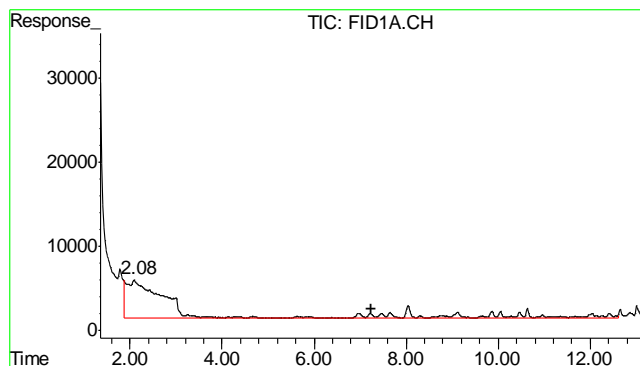
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\011013\GB19088.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\011013\GB19088.D\FID2B.CH
Acq On : 10 Jan 2013 4:00 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC3347,GGB1044,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jan 10 16:31 2013 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Jan 10 16:31:50 2013
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

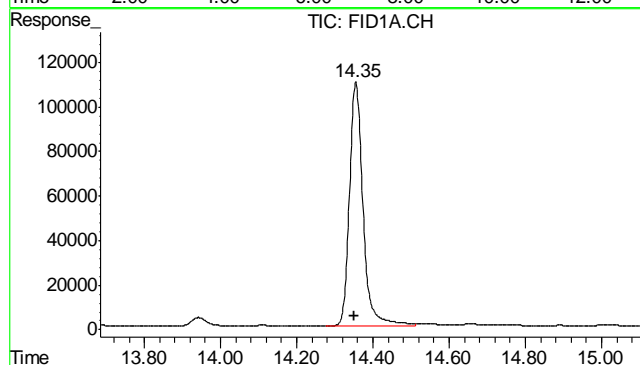
Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





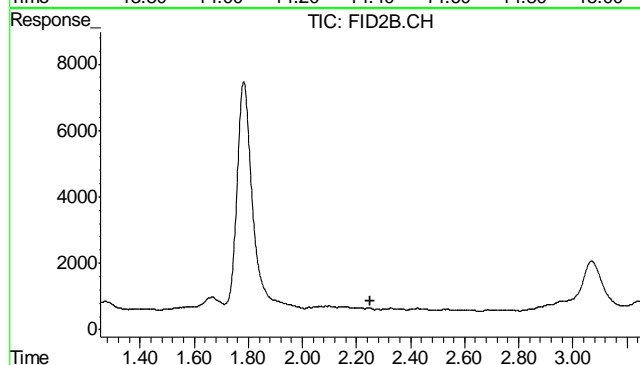
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 3461894
Conc: N.D.



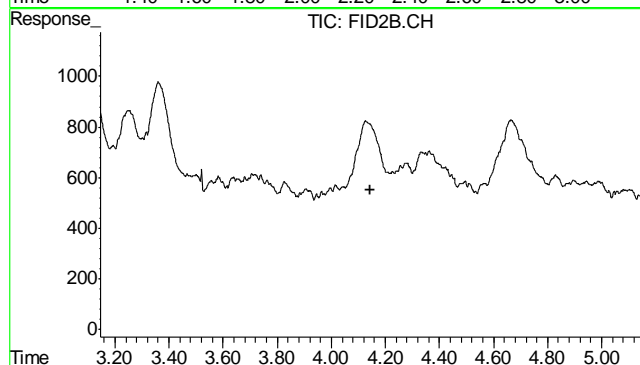
#2 1,2,4-Trichlorobenzene

R.T.: 14.355 min
Delta R.T.: 0.004 min
Response: 2717831
Conc: 86.74 % m



#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.252 min
Response: 0
Conc: N.D.

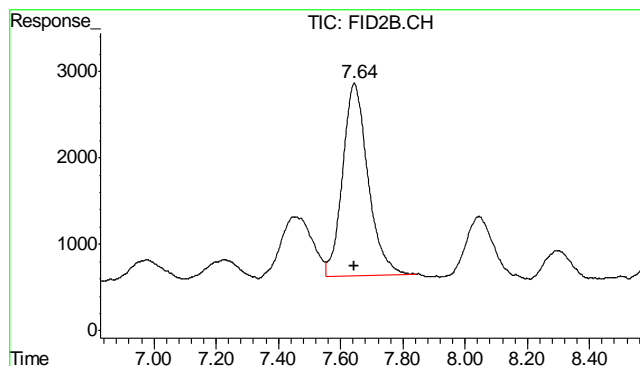


#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.145 min
Response: 0
Conc: N.D.

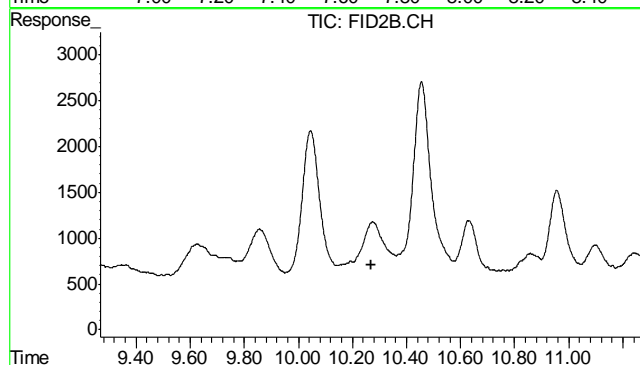
7.2.1

7



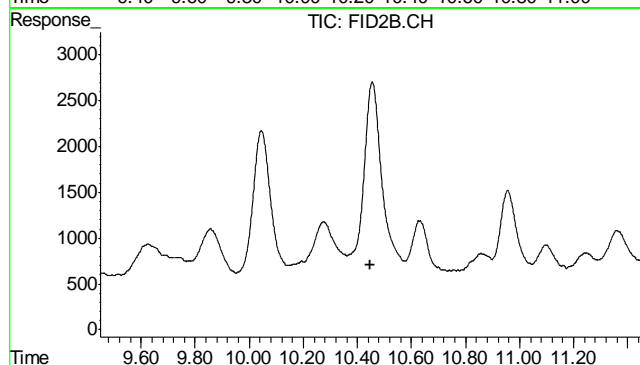
#6 Toluene

R.T.: 7.644 min
Delta R.T.: 0.000 min
Response: 126661
Conc: 0.32 ug/L



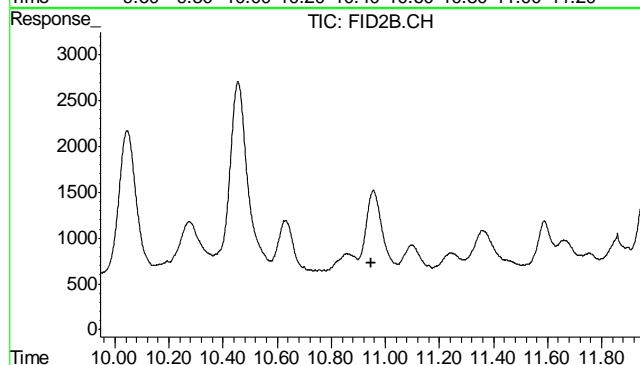
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T. : 10.268 min
Response: 0
Conc: N.D.



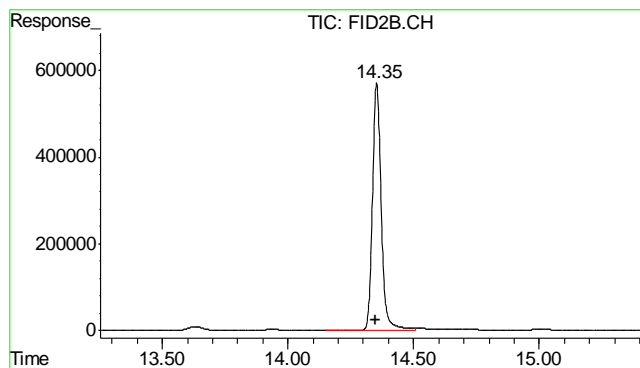
#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T. : 10.449 min
Response: 0
Conc: N.D.



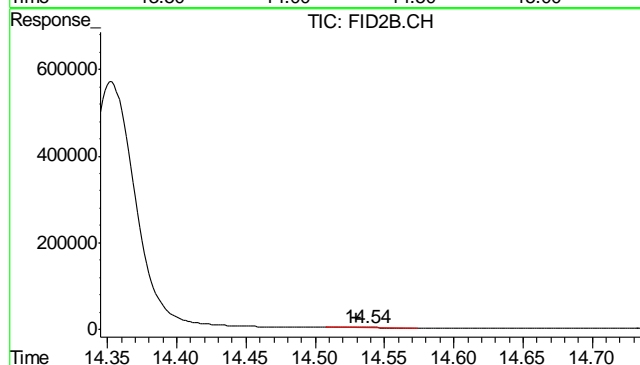
#9 o-Xylene

R.T.: 0.000 min
Exp R.T. : 10.946 min
Response: 0
Conc: N.D.



#10 1,2,4-Trichlorobenzene (P)

R.T.: 14.353 min
Delta R.T.: 0.005 min
Response: 13731194
Conc: 84.49 %



#11 Naphthalene

R.T.: 14.537 min
Delta R.T.: 0.006 min
Response: 24002
Conc: 0.12 ug/L m

7.2.1

7

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D42509
Account: XTOKRWR XTO Energy
Project: XTO Love Ranch 8

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7222-MB	FH008528.D	1	01/14/13	AV	01/14/13	OP7222	GFH472

The QC reported here applies to the following samples: Method: SW846-8015B
D42509-1, D42509-2, D42509-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.7	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	91% 35-130%

Blank Spike Summary

Page 1 of 1

Job Number: D42509
Account: XTOKRWR XTO Energy
Project: XTO Love Ranch 8

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7222-BS	FH008532.D	1	01/14/13	AV	01/14/13	OP7222	GFH472

The QC reported here applies to the following samples:

Method: SW846-8015B

D42509-1, D42509-2, D42509-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	534	80	48-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	88%	35-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D42509
Account: XTOKRWR XTO Energy
Project: XTO Love Ranch 8

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7222-MS	FH008534.D	1	01/14/13	AV	01/14/13	OP7222	GFH472
OP7222-MSD	FH008536.D	1	01/14/13	AV	01/14/13	OP7222	GFH472
D42509-2	FH008572.D	1	01/15/13	AV	01/14/13	OP7222	GFH472

The QC reported here applies to the following samples:

Method: SW846-8015B

D42509-1, D42509-2, D42509-3

CAS No.	Compound	D42509-2 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	46.1	736	647	82	493	61	27	20-168/30

CAS No.	Surrogate Recoveries	MS	MSD	D42509-2	Limits
84-15-1	o-Terphenyl	79%	62%	74%	35-130%

* = Outside of Control Limits.

GC Semi-volatiles

Raw Data

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH011413.SEC\
 Data File : FH008570.D
 Signal(s) : FID2B.ch
 Acq On : 15 Jan 2013 3:39 am
 Operator : ashleyv
 Sample : D42509-1
 Misc : OP7222,GFH472,30.11,,,1,1
 ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 15 11:50:51 2013
 Quant Method : C:\msdchem\1\METHODS\DRO-GFH464R.M
 Quant Title : DRO-ORO REAR
 QLast Update : Mon Jan 07 08:59:40 2013
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) s o-Terphenyl	12.541	1886476995	1371.765 ug/ml
Target Compounds			
1) H TPH-DRO (C10-C28)	10.243	3629740982	3074.570 ug/ml
2) H TPH-DRO (C8-C20)	7.898	2711849477	2439.794 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

9.1.1

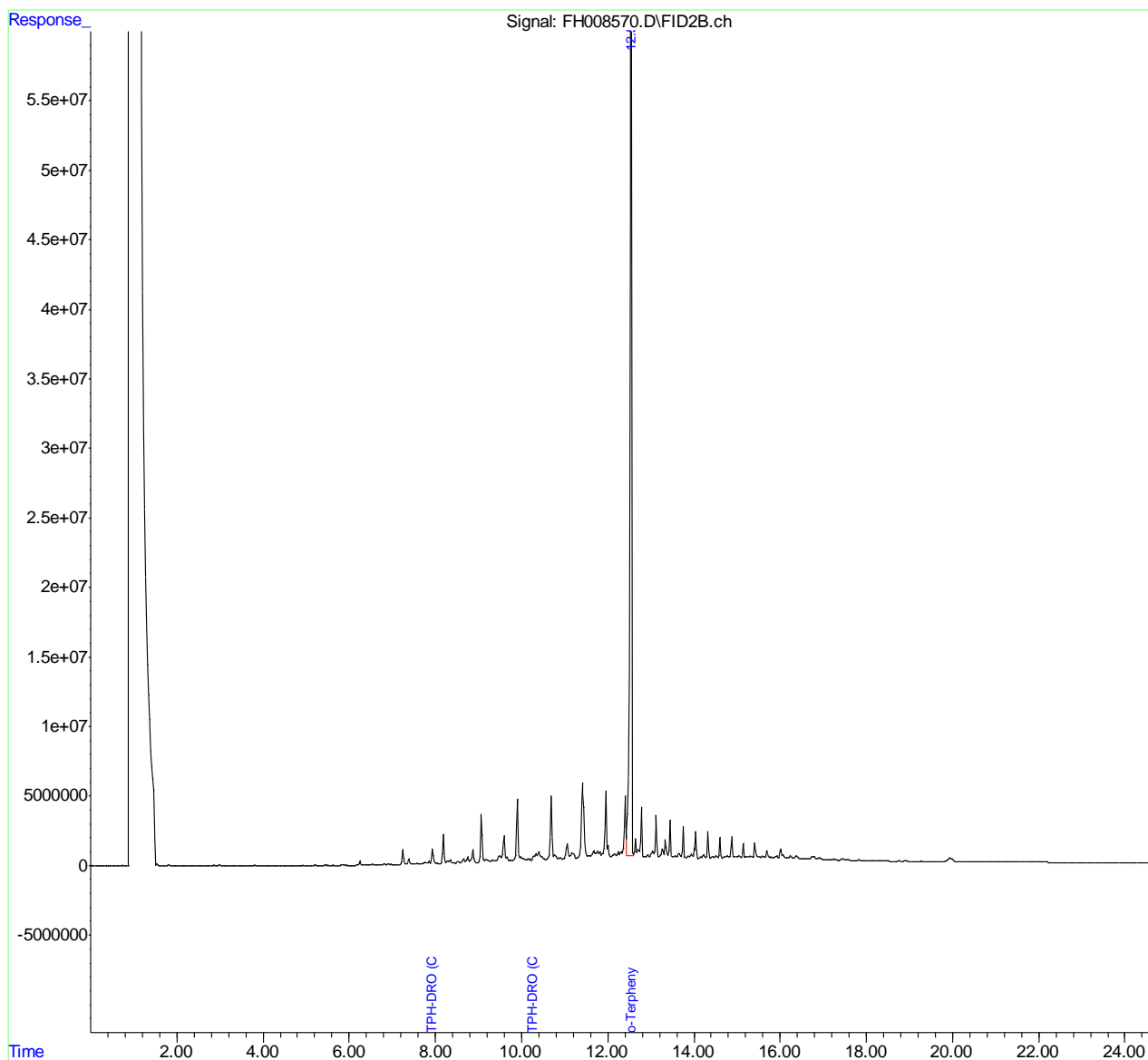
9

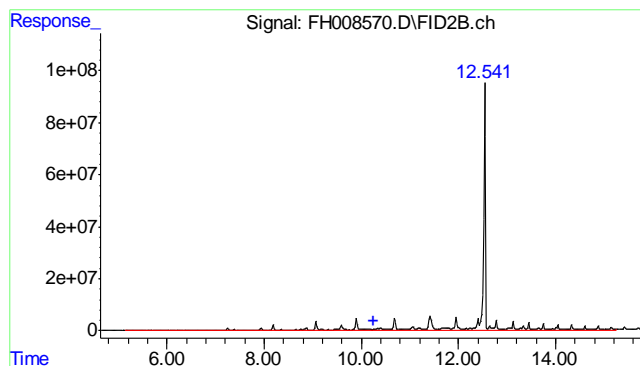
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH011413.SEC\
Data File : FH008570.D
Signal(s) : FID2B.ch
Acq On : 15 Jan 2013 3:39 am
Operator : ashleyv
Sample : D42509-1
Misc : OP7222,GFH472,30.11,,,1,1
ALS Vial : 73 Sample Multiplier: 1

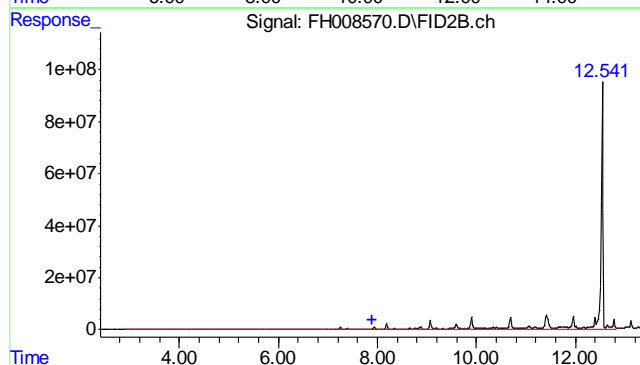
Integration File: events.e
Quant Time: Jan 15 11:50:51 2013
Quant Method : C:\msdchem\1\METHODS\DRO-GFH464R.M
Quant Title : DRO-ORO REAR
QLast Update : Mon Jan 07 08:59:40 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

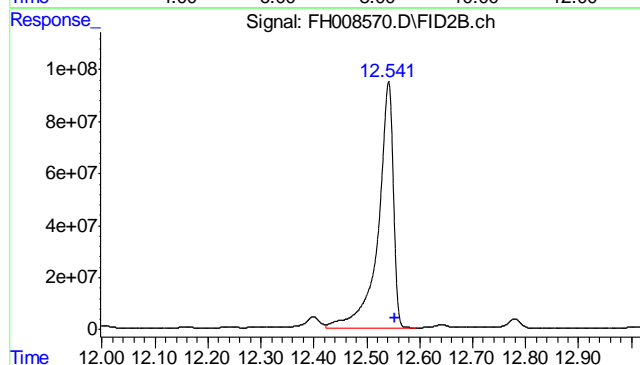




#1 TPH-DRO (C10-C28)
 R.T.: 10.243 min
 Delta R.T.: 0.000 min
 Response: 3629740982
 Conc: 3074.57 ug/ml m



#2 TPH-DRO (C8-C20)
 R.T.: 7.898 min
 Delta R.T.: 0.000 min
 Response: 2711849477
 Conc: 2439.79 ug/ml m



#3 o-Terphenyl
 R.T.: 12.541 min
 Delta R.T.: -0.012 min
 Response: 1886476995
 Conc: 1371.77 ug/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH011413.SEC\
 Data File : FH008572.D
 Signal(s) : FID2B.ch
 Acq On : 15 Jan 2013 4:14 am
 Operator : ashleyv
 Sample : D42509-2
 Misc : OP7222,GFH472,30.09,,,1,1
 ALS Vial : 74 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 15 11:51:55 2013
 Quant Method : C:\msdchem\1\METHODS\DRO-GFH464R.M
 Quant Title : DRO-ORO REAR
 QLast Update : Mon Jan 07 08:59:40 2013
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) s o-Terphenyl	12.542	2021739675	1470.123 ug/ml
Target Compounds			
1) H TPH-DRO (C10-C28)	10.243	1483467430	1256.570 ug/ml
2) H TPH-DRO (C8-C20)	7.898	546283616	491.480 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

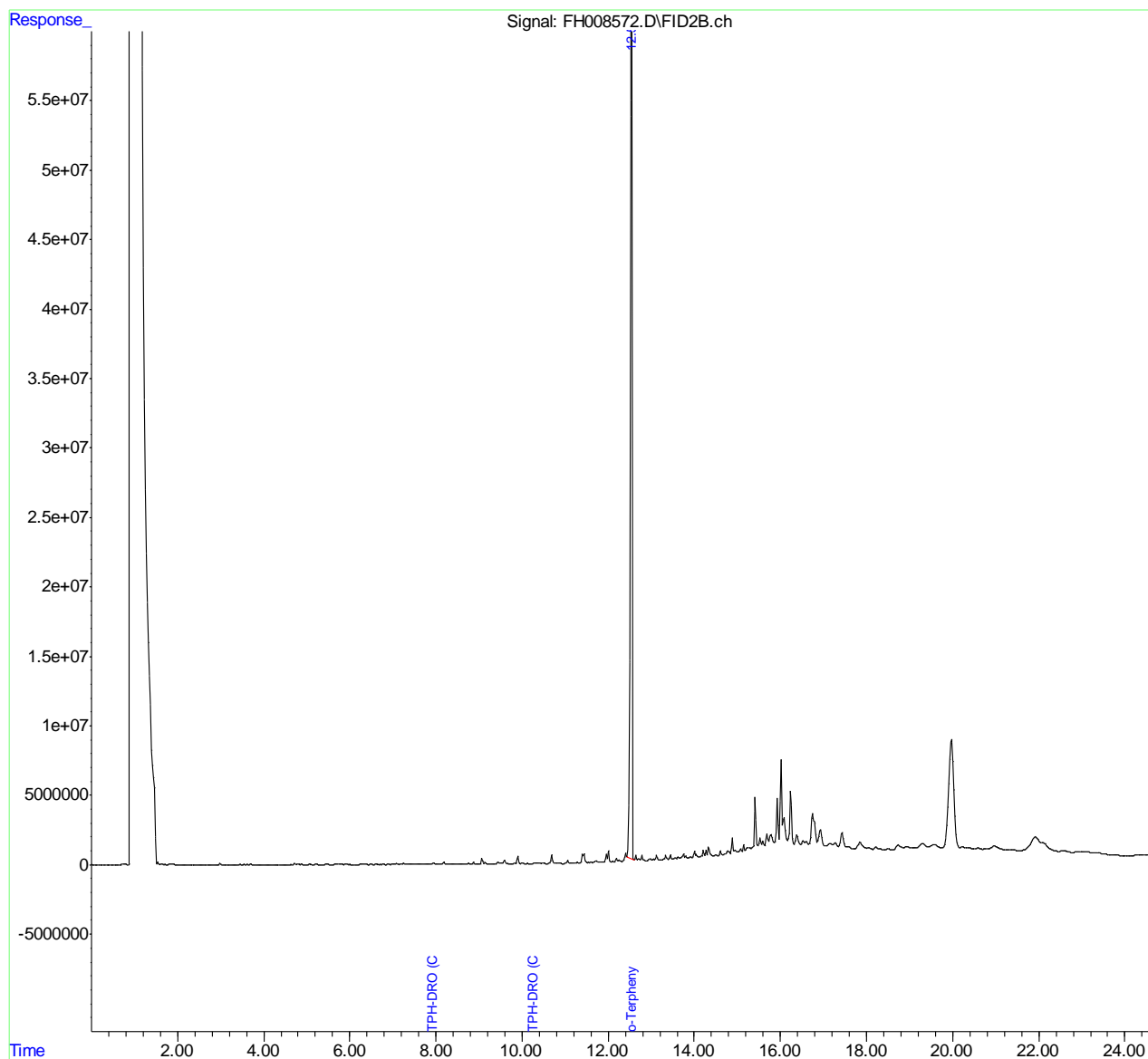
9.12
9

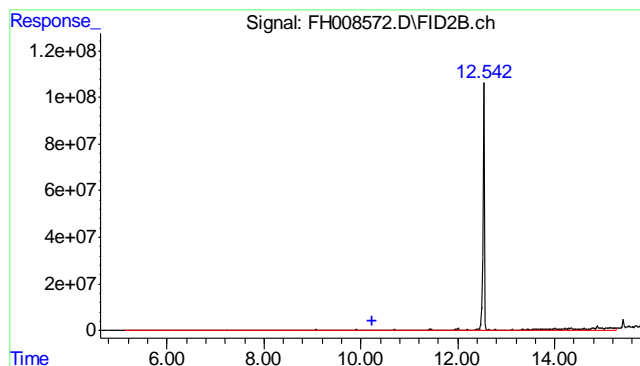
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH011413.SEC\
Data File : FH008572.D
Signal(s) : FID2B.ch
Acq On : 15 Jan 2013 4:14 am
Operator : ashleyv
Sample : D42509-2
Misc : OP7222,GFH472,30.09,,,1,1
ALS Vial : 74 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 11:51:55 2013
Quant Method : C:\msdchem\1\METHODS\DRO-GFH464R.M
Quant Title : DRO-ORO REAR
QLast Update : Mon Jan 07 08:59:40 2013
Response via : Initial Calibration
Integrator: ChemStation

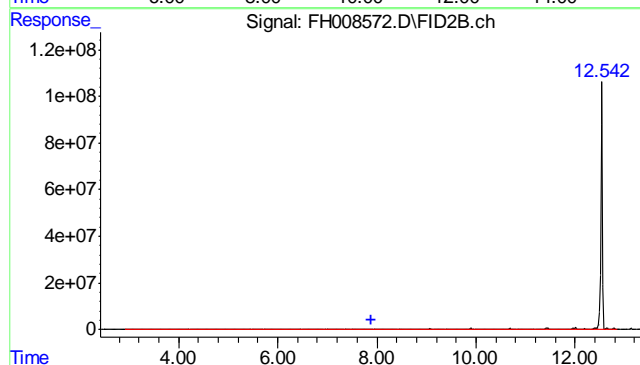
Volume Inj. :
Signal Phase :
Signal Info :





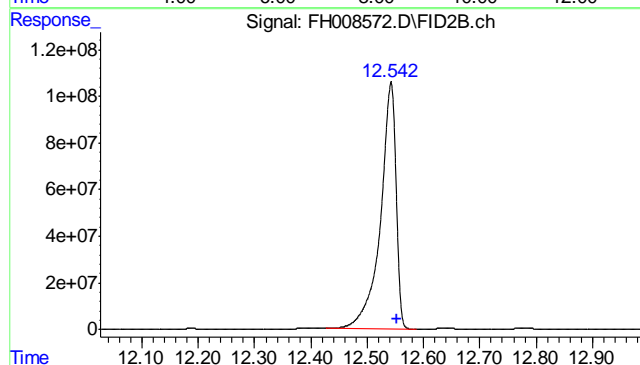
#1 TPH-DRO (C10-C28)

R.T.: 10.243 min
Delta R.T.: 0.000 min
Response: 1483467430
Conc: 1256.57 ug/ml m



#2 TPH-DRO (C8-C20)

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 546283616
Conc: 491.48 ug/ml m



#3 o-Terphenyl

R.T.: 12.542 min
Delta R.T.: -0.011 min
Response: 2021739675
Conc: 1470.12 ug/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH011413.SEC\
 Data File : FH008574.D
 Signal(s) : FID2B.ch
 Acq On : 15 Jan 2013 4:50 am
 Operator : ashleyv
 Sample : D42509-3
 Misc : OP7222,GFH472,30.18,,,1,1
 ALS Vial : 75 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 15 11:52:37 2013
 Quant Method : C:\msdchem\1\METHODS\DRO-GFH464R.M
 Quant Title : DRO-ORO REAR
 QLast Update : Mon Jan 07 08:59:40 2013
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) s o-Terphenyl	12.539	1522185912	1106.868 ug/ml
Target Compounds			
1) H TPH-DRO (C10-C28)	10.243	8255561053	6992.869 ug/ml
2) H TPH-DRO (C8-C20)	7.898	6872631613	6183.162 ug/ml

(f)=RT Delta > 1/2 Window

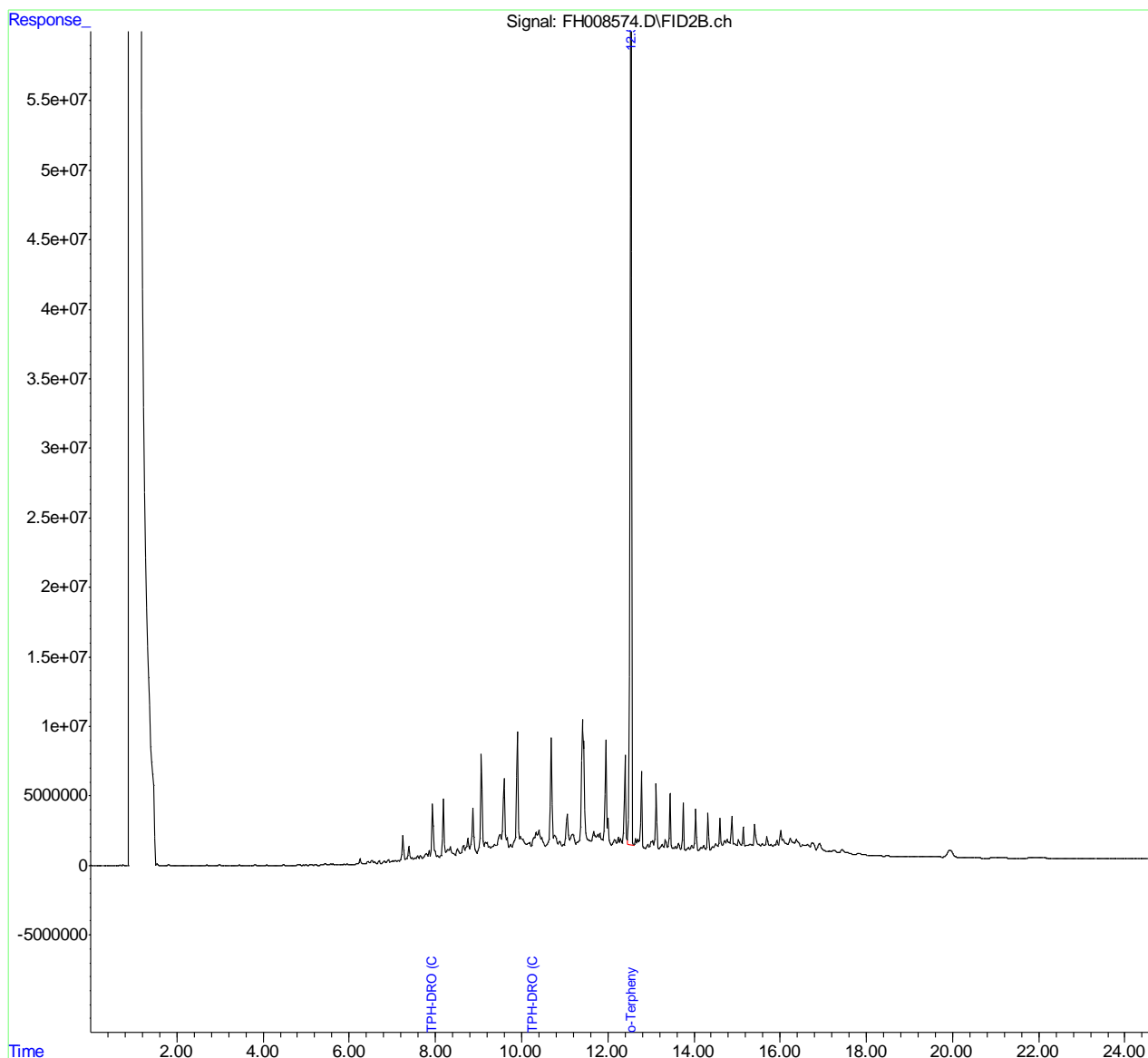
(m)=manual int.

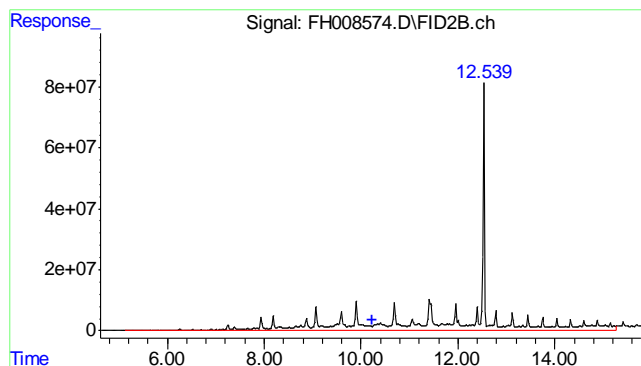
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH011413.SEC\
Data File : FH008574.D
Signal(s) : FID2B.ch
Acq On : 15 Jan 2013 4:50 am
Operator : ashleyv
Sample : D42509-3
Misc : OP7222,GFH472,30.18,,,1,1
ALS Vial : 75 Sample Multiplier: 1

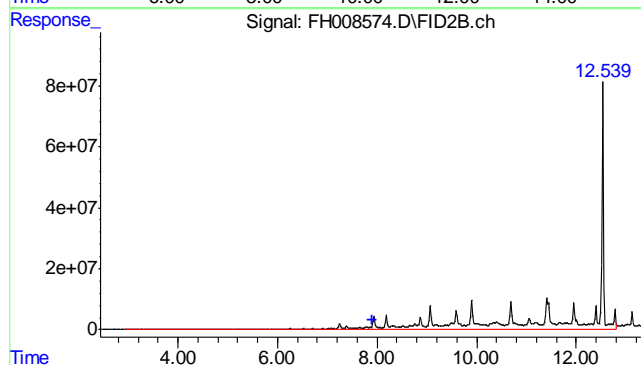
Integration File: events.e
Quant Time: Jan 15 11:52:37 2013
Quant Method : C:\msdchem\1\METHODS\DRO-GFH464R.M
Quant Title : DRO-ORO REAR
QLast Update : Mon Jan 07 08:59:40 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

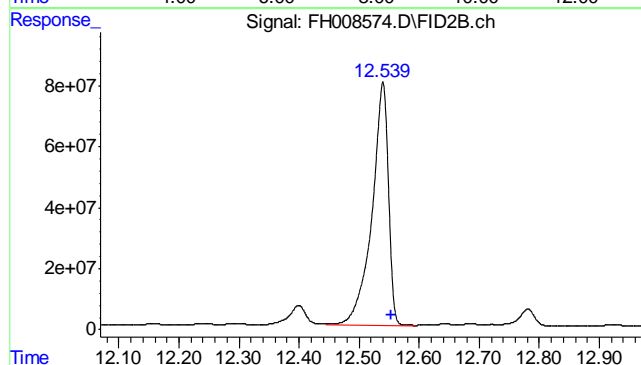




#1 TPH-DRO (C10-C28)
 R.T.: 10.243 min
 Delta R.T.: 0.000 min
 Response: 8255561053
 Conc: 6992.87 ug/ml m



#2 TPH-DRO (C8-C20)
 R.T.: 7.898 min
 Delta R.T.: 0.000 min
 Response: 6872631613
 Conc: 6183.16 ug/ml m



#3 o-Terphenyl
 R.T.: 12.539 min
 Delta R.T.: -0.014 min
 Response: 1522185912
 Conc: 1106.87 ug/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH011413.SEC\
Data File : FH008528.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2013 3:50 pm
Operator : ashleyv
Sample : OP7222-MB
Misc : OP7222,GFH472,30.00,,,1,1
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 08:27:53 2013
Quant Method : C:\msdchem\1\METHODS\DRO-GFH464R.M
Quant Title : DRO-ORO REAR
QLast Update : Mon Jan 07 08:59:40 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) s o-Terphenyl	12.557	2504718000	1821.324 ug/ml
Target Compounds			
1) H TPH-DRO (C10-C28)	10.243	70088032	59.368 ug/ml
2) H TPH-DRO (C8-C20)	7.898	20531892	18.472 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

9.2.1

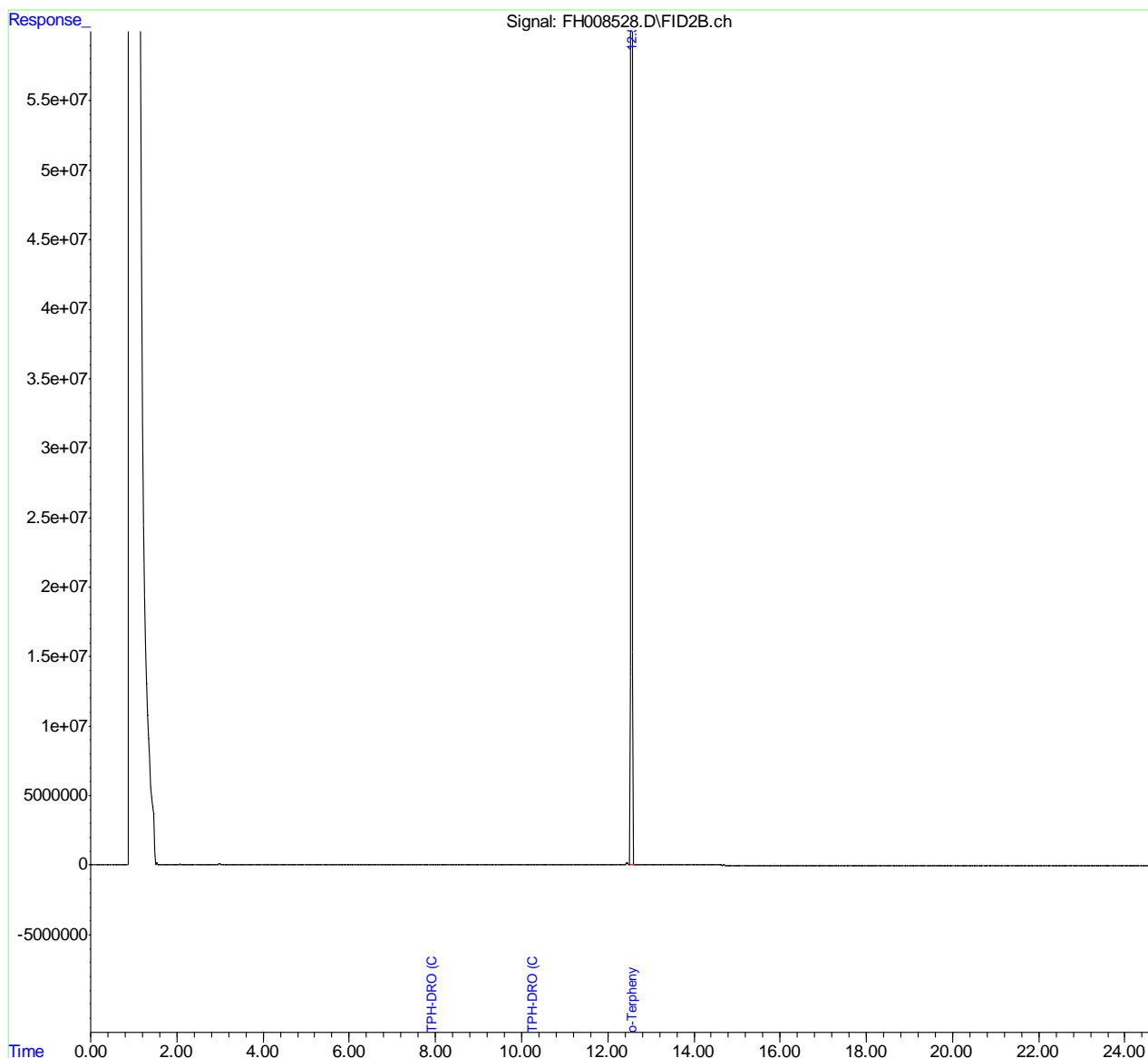
9

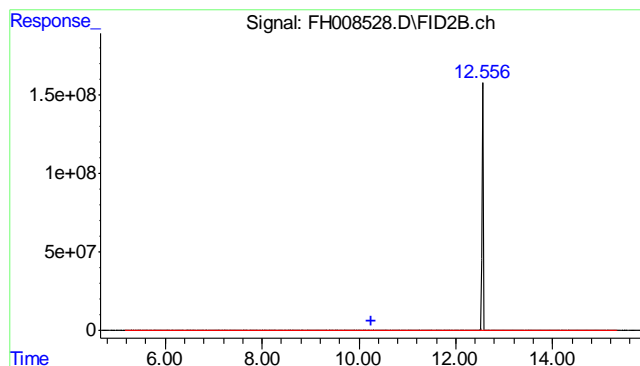
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH011413.SEC\
Data File : FH008528.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2013 3:50 pm
Operator : ashleyv
Sample : OP7222-MB
Misc : OP7222,GFH472,30.00,,,1,1
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 15 08:27:53 2013
Quant Method : C:\msdchem\1\METHODS\DRO-GFH464R.M
Quant Title : DRO-ORO REAR
QLast Update : Mon Jan 07 08:59:40 2013
Response via : Initial Calibration
Integrator: ChemStation

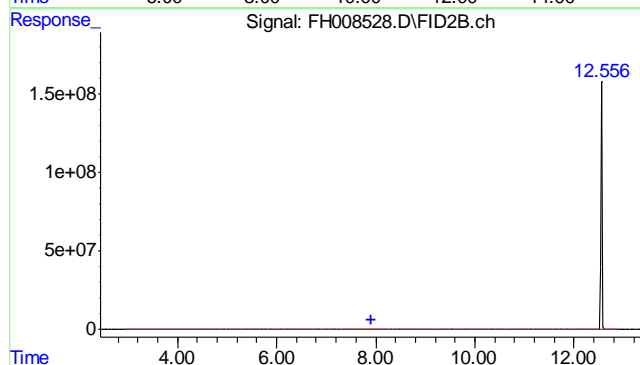
Volume Inj. :
Signal Phase :
Signal Info :





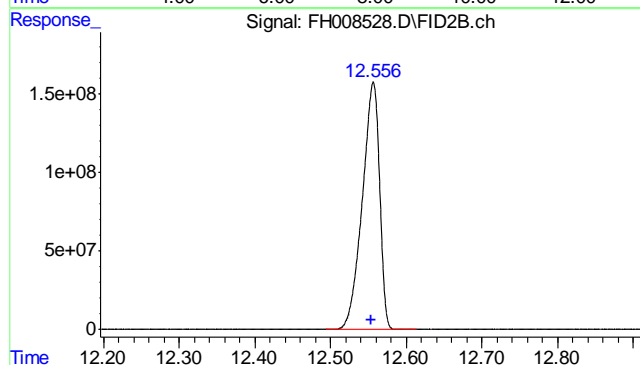
#1 TPH-DRO (C10-C28)

R.T.: 10.243 min
Delta R.T.: 0.000 min
Response: 70088032
Conc: 59.37 ug/ml m



#2 TPH-DRO (C8-C20)

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 20531892
Conc: 18.47 ug/ml m



#3 o-Terphenyl

R.T.: 12.557 min
Delta R.T.: 0.004 min
Response: 2504718000
Conc: 1821.32 ug/ml