



06/06/12

Technical Report for

XTO Energy

PCU 296-7A

1007-02

Accutest Job Number: D34957

Sampling Date: 05/30/12

Report to:

KRW Consulting, Inc.
8000 West 14th Avenue
Lakewood, CO 80214
cburger@krwconsulting.com; dknudson@krwconsulting.com;
jhess@krwconsulting.com; crachak@krwconsulting.com;
ATTN: Dwayne Knudson

Total number of pages in report: 36



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)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

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Sample Summary

XTO Energy

Job No: D34957

PCU 296-7A
Project No: 1007-02

Sample Number	Collected		Time By	Received	Matrix		Client Sample ID
	Date				Code	Type	
D34957-1	05/30/12	09:20	DS	05/31/12	SO	Soil	RP CRUSHED MATERIAL DAY 5 (5/29)

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



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: XTO Energy

Job No D34957

Site: PCU 296-7A

Report Date 6/6/2012 10:59:52 AM

On 05/31/2012, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 4 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D34957 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: GGB901
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D34948-1MS, D34948-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO	Batch ID: OP5989
------------------	-------------------------

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D34956-1MS, D34956-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO	Batch ID: GN15209
------------------	--------------------------

- 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.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	RP CRUSHED MATERIAL DAY 5 (5/29)					Date Sampled:	05/30/12
Lab Sample ID:	D34957-1					Date Received:	05/31/12
Matrix:	SO - Soil					Percent Solids:	89.2
Method:	SW846 8015B						
Project:	PCU 296-7A						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16182.D	1	05/31/12	SK	n/a	n/a	GGB901
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)	6.62	12	6.2	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	100%		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:	RP CRUSHED MATERIAL DAY 5 (5/29)					Date Sampled:	05/30/12
Lab Sample ID:	D34957-1					Date Received:	05/31/12
Matrix:	SO - Soil					Percent Solids:	89.2
Method:	SW846-8015B SW846 3546						
Project:	PCU 296-7A						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD13851.D	1	06/01/12	AV	06/01/12	OP5989	GFD733
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1410	15	9.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	79%		43-136%		

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

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Mountain States
4036 Youngfield Street Wheat Ridge, Co 80033
TEL. 303-425-6021 877-737-4521
FAX 303-425-6021

[illegible]

D34957: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D34957

Client: KRW

Immediate Client Services Action Required: No

Date / Time Received: 5/31/2012 1:30:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project: XTO

Airbill #'s: CO

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

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www.accutest.com

GC Volatiles

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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: D34957
Account: XTOKRWR XTO Energy
Project: PCU 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB901-MB	GB16176.D	1	05/31/12	SK	n/a	n/a	GGB901

The QC reported here applies to the following samples:

Method: SW846 8015B

D34957-1

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	93% 60-140%

Blank Spike Summary

Page 1 of 1

Job Number: D34957
Account: XTOKRWR XTO Energy
Project: PCU 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB901-BS	GB16177.D	1	05/31/12	SK	n/a	n/a	GGB901

The QC reported here applies to the following samples:

Method: SW846 8015B

D34957-1

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	102%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D34957
Account: XTOKRWR XTO Energy
Project: PCU 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D34948-1MS	GB16179.D	1	05/31/12	SK	n/a	n/a	GGB901
D34948-1MSD	GB16180.D	1	05/31/12	SK	n/a	n/a	GGB901
D34948-1	GB16178.D	1	05/31/12	SK	n/a	n/a	GGB901

The QC reported here applies to the following samples:

Method: SW846 8015B

D34957-1

CAS No.	Compound	D34948-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		134	140	104	138	103	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D34948-1	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	110%	100%	60-140%

GC Volatiles

Raw Data



Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\053112\GB16182.D\FID1A.CH Vial: 8
Signal #2 : Y:\1\DATA\053112\GB16182.D\FID2B.CH
Acq On : 31 May 2012 6:13 pm Operator: StephK
Sample : D34957-1, 50X Inst : GC/MS Ins
Misc : GC2876,GGB901,5.004,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 01 09:10:47 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Wed May 30 15:13:36 2012
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

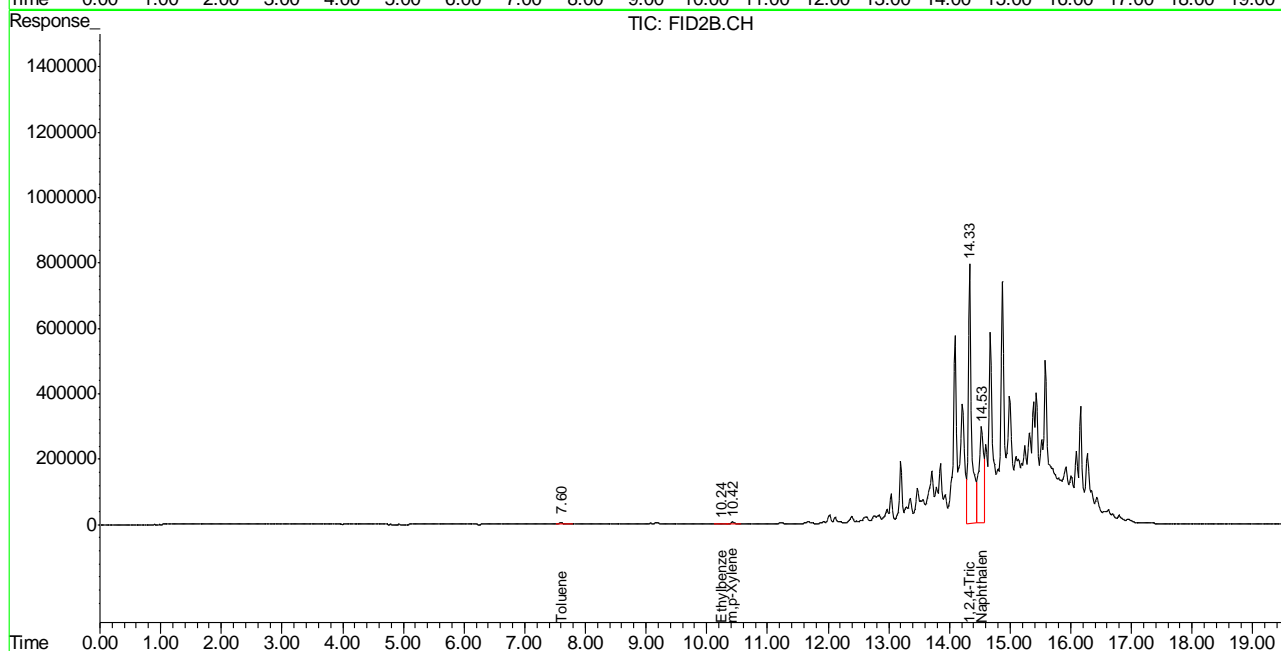
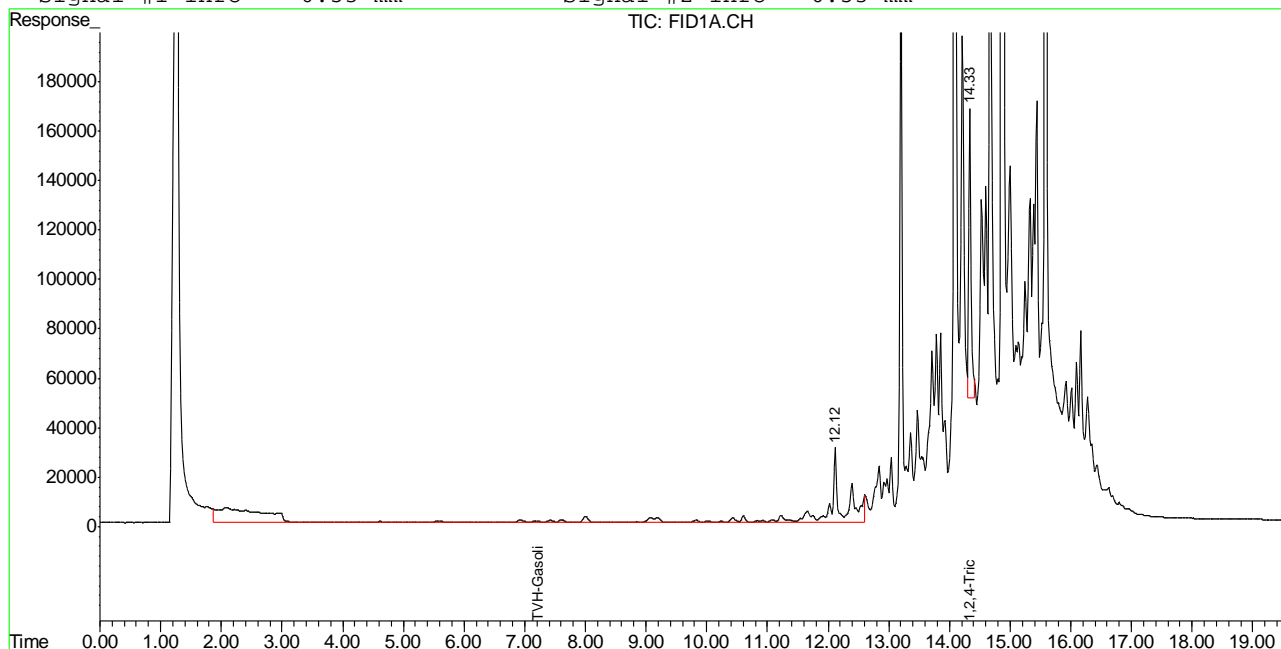
System Monitoring Compounds					
2) S	1,2,4-Trichlorobenzene	14.33	3126474	99.779 %	m
10) S	1,2,4-Trichlorobenzene (P)	14.33	28844945	177.477 %	
Target Compounds					
1) H	TVH-Gasoline	7.23	8811561	0.107 mg/L	
4) T	Methyl-t-butyl-ether	0.00	0	N.D. ug/L	d
5) T	Benzene	0.00	0	N.D. ug/L	d
6) T	Toluene	7.60	250580	0.632 ug/L	
7) T	Ethylbenzene	10.24	81435	0.241 ug/L	
8) T	m,p-Xylene	10.42	335468	0.546 ug/L	
9) T	o-Xylene	0.00	0	N.D. ug/L	d
11) T	Naphthalene	14.53	16084835	81.521 ug/L	

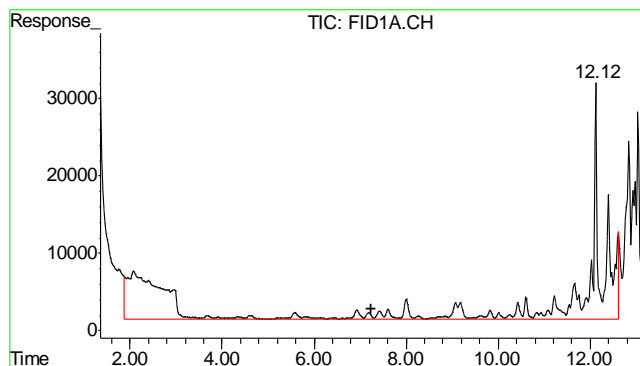
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\053112\GB16182.D\FID1A.CH Vial: 8
Signal #2 : Y:\1\DATA\053112\GB16182.D\FID2B.CH
Acq On : 31 May 2012 6:13 pm Operator: StephK
Sample : D34957-1, 50X Inst : GC/MS Ins
Misc : GC2876,GGB901,5.004,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 1 8:18 2012 Quant Results File: TB868GB868SOIL.RES

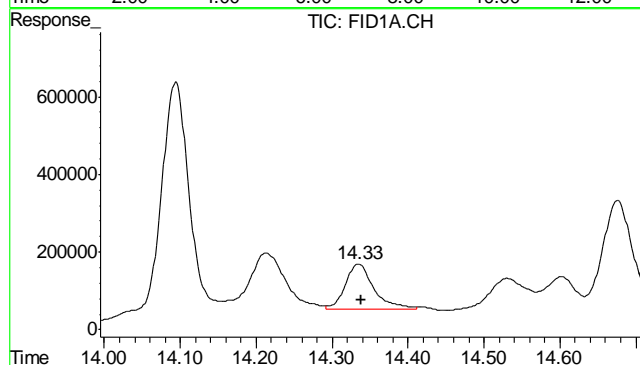
Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Wed May 30 15:13:36 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

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

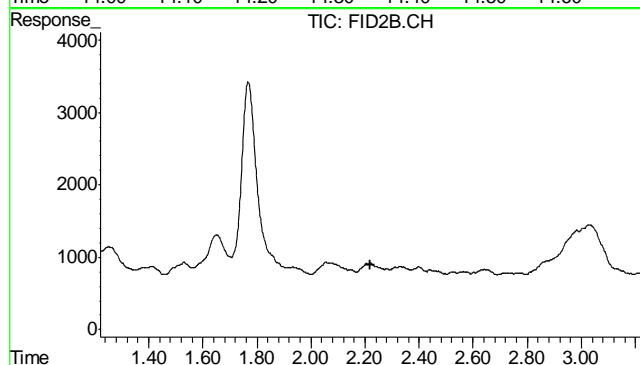




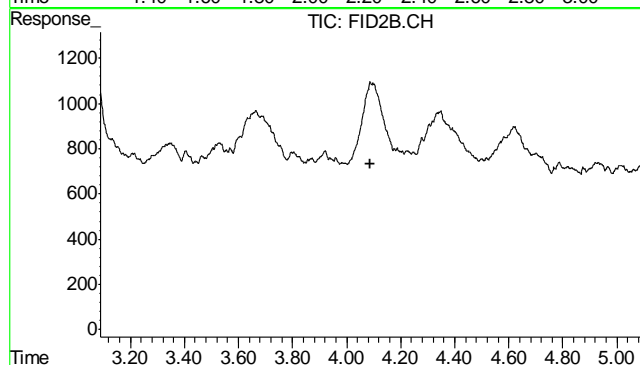
#1 TVH-Gasoline
 R.T.: 7.230 min
 Delta R.T.: 0.000 min
 Response: 8811561
 Conc: 0.11 mg/L m



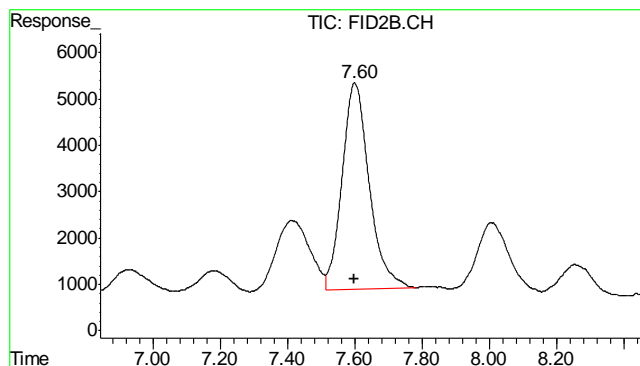
#2 1,2,4-Trichlorobenzene
 R.T.: 14.334 min
 Delta R.T.: -0.003 min
 Response: 3126474
 Conc: 99.78 % m



#4 Methyl-t-butyl-ether
 R.T.: 0.000 min
 Exp R.T.: 2.220 min
 Response: 0
 Conc: N.D.

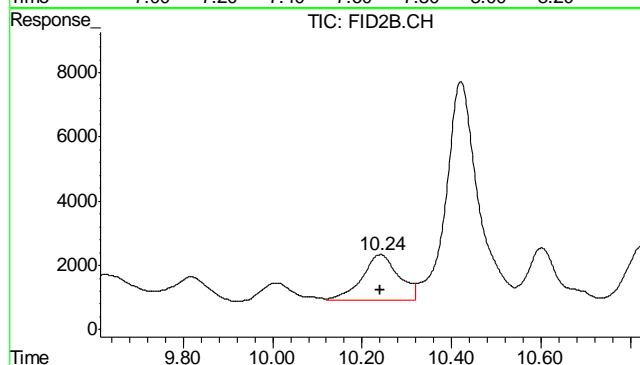


#5 Benzene
 R.T.: 0.000 min
 Exp R.T.: 4.089 min
 Response: 0
 Conc: N.D.



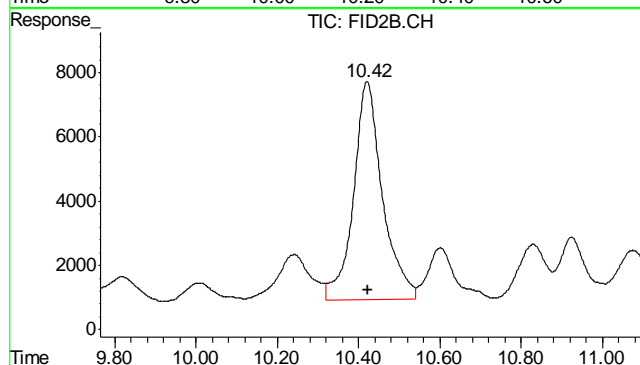
#6 Toluene

R.T.: 7.600 min
Delta R.T.: 0.003 min
Response: 250580
Conc: 0.63 ug/L



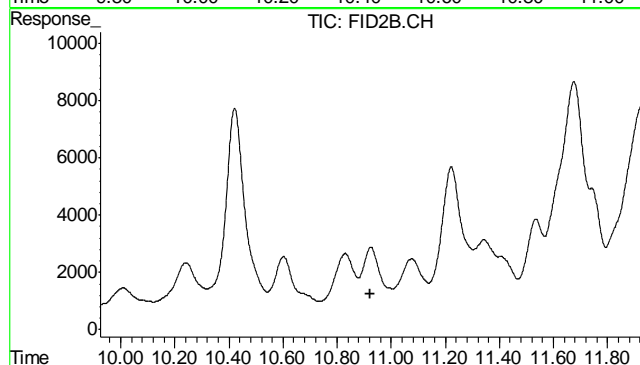
#7 Ethylbenzene

R.T.: 10.242 min
Delta R.T.: 0.001 min
Response: 81435
Conc: 0.24 ug/L



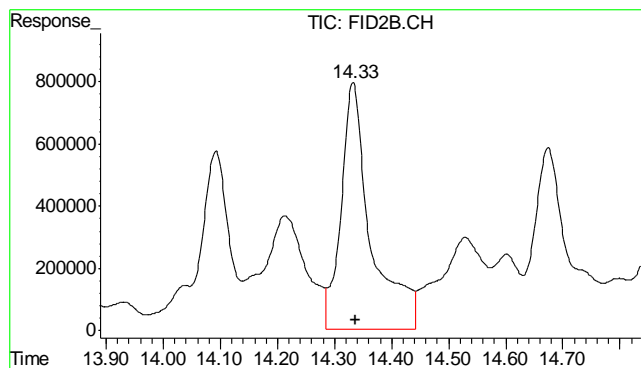
#8 m,p-Xylene

R.T.: 10.421 min
Delta R.T.: -0.002 min
Response: 335468
Conc: 0.55 ug/L



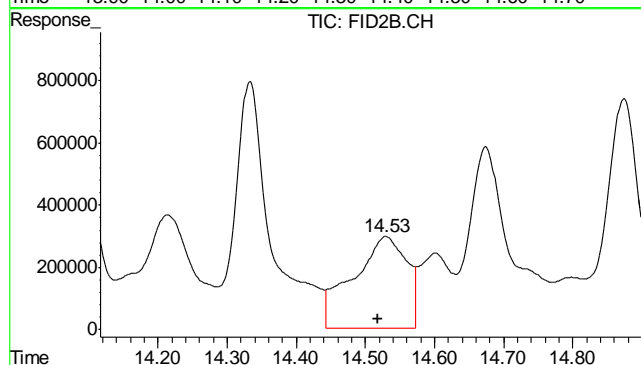
#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.924 min
Response: 0
Conc: N.D.



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

R.T.: 14.333 min
Delta R.T.: -0.004 min
Response: 28844945
Conc: 177.48 %



#11 Naphthalene

R.T.: 14.529 min
Delta R.T.: 0.011 min
Response: 16084835
Conc: 81.52 ug/L

6.1.1

6

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\053112\GB16176.D\FID1A.CH Vial: 2
 Signal #2 : Y:\1\DATA\053112\GB16176.D\FID2B.CH
 Acq On : 31 May 2012 2:42 pm Operator: StephK
 Sample : MB Inst : GC/MS Ins
 Misc : GC2876,GGB901,5.000,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: May 31 15:36:42 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Wed May 30 15:13:36 2012
 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	2926733	93.404	%
10) S	1,2,4-Trichlorobenzene (P)	14.36	16761274	103.129	%
Target Compounds					
1) H	TVH-Gasoline	7.23	4429047	<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	165655	0.418	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	317286	1.608	ug/L

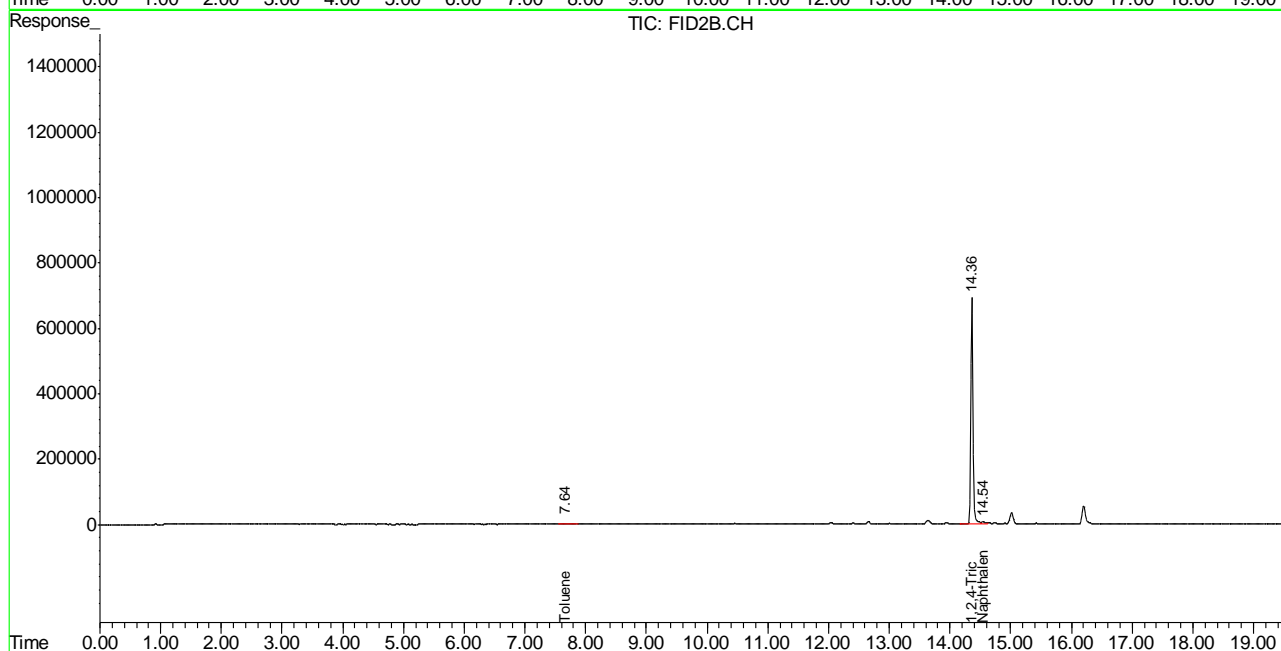
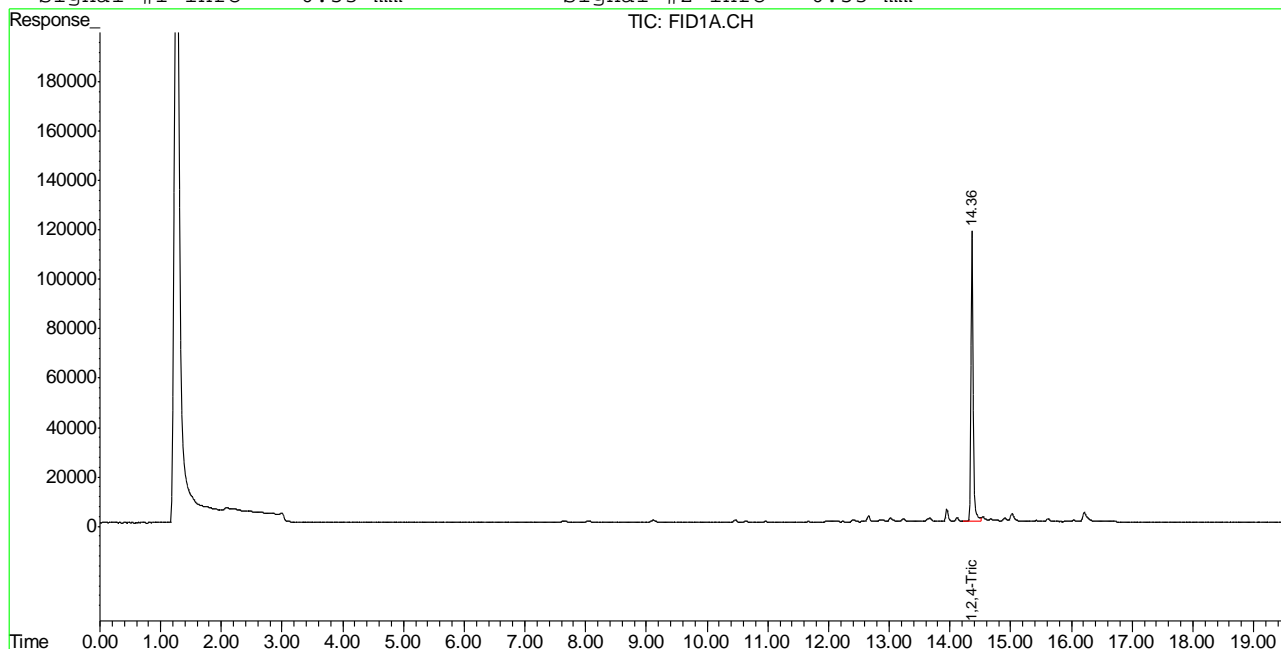
 (f)=RT Delta > 1/2 Window (m)=manual int.
 GB16176.D TB868GB868SOIL.M Fri Jun 01 09:16:25 2012 GC

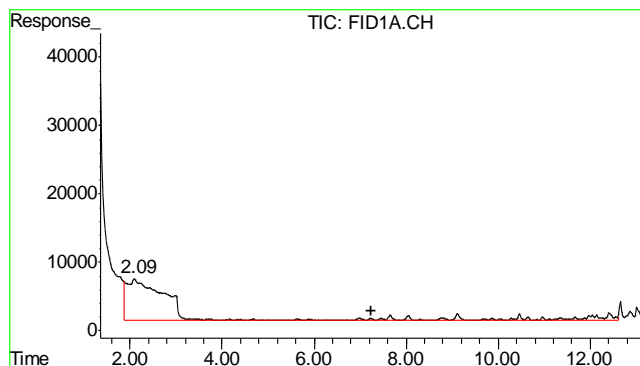
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\053112\GB16176.D\FID1A.CH Vial: 2
Signal #2 : Y:\1\DATA\053112\GB16176.D\FID2B.CH
Acq On : 31 May 2012 2:42 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC2876,GGB901,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: May 31 14:40 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Wed May 30 15:13:36 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

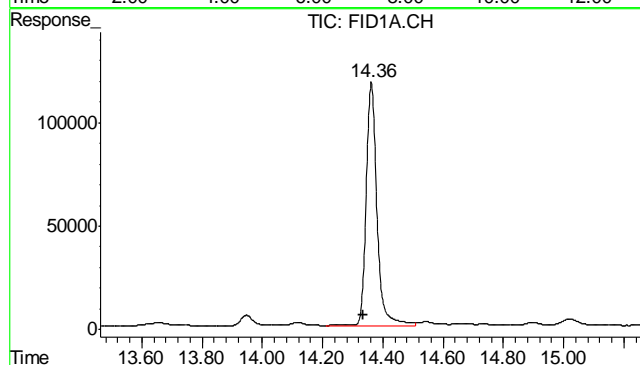
Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





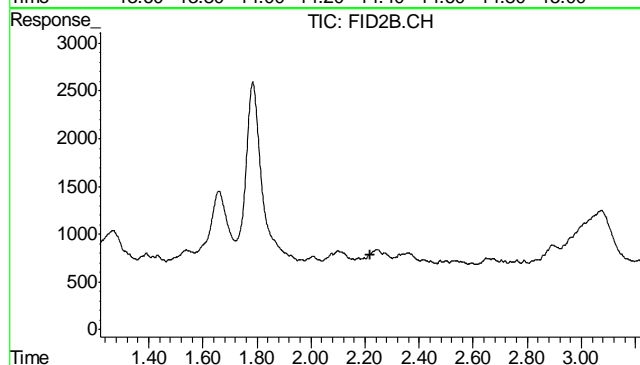
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 4429047
Conc: N.D.



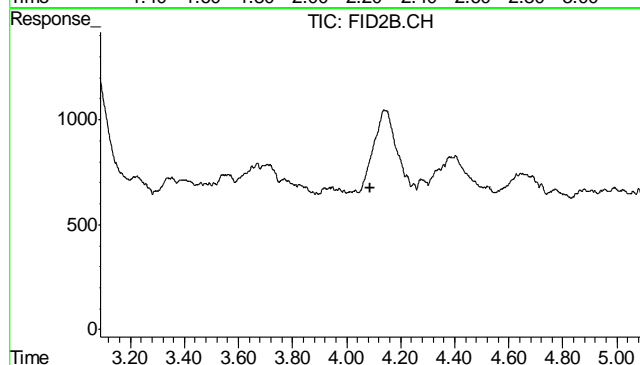
#2 1,2,4-Trichlorobenzene

R.T.: 14.362 min
Delta R.T.: 0.025 min
Response: 2926733
Conc: 93.40 %



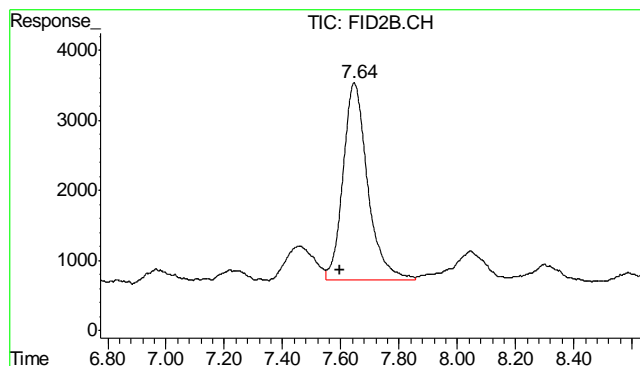
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.220 min
Response: 0
Conc: N.D.



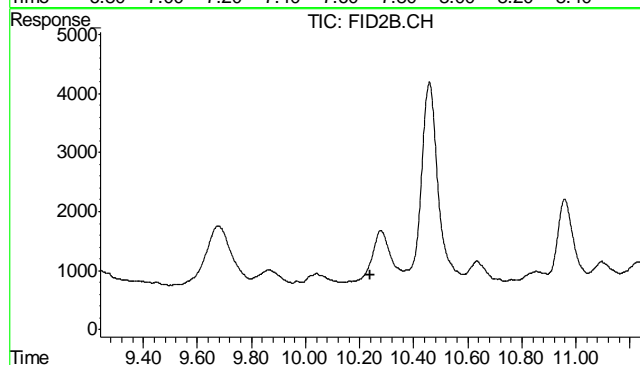
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.089 min
Response: 0
Conc: N.D.



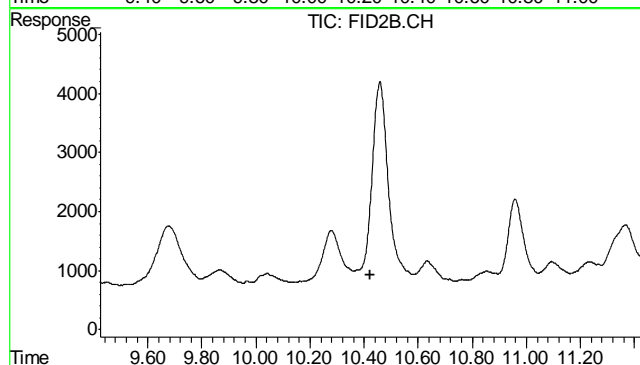
#6 Toluene

R.T.: 7.646 min
Delta R.T.: 0.049 min
Response: 165655
Conc: 0.42 ug/L



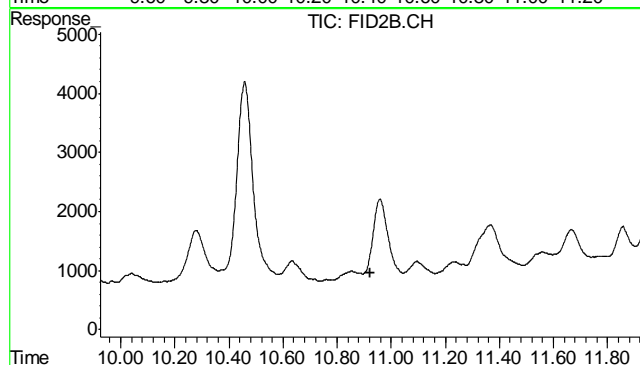
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T. : 10.241 min
Response: 0
Conc: N.D.



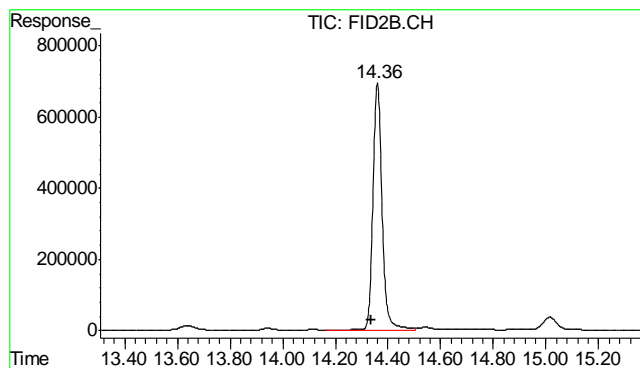
#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T. : 10.424 min
Response: 0
Conc: N.D.



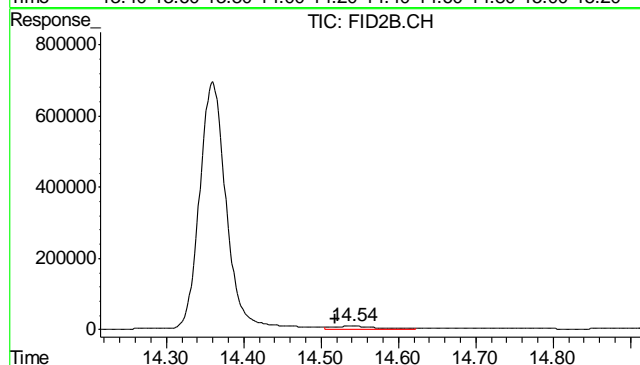
#9 o-Xylene

R.T.: 0.000 min
Exp R.T. : 10.924 min
Response: 0
Conc: N.D.



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

R.T.: 14.360 min
Delta R.T.: 0.024 min
Response: 16761274
Conc: 103.13 %



#11 Naphthalene

R.T.: 14.540 min
Delta R.T.: 0.022 min
Response: 317286
Conc: 1.61 ug/L

6.2.1

6

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

Page 1 of 1

Job Number: D34957
Account: XTOKRWR XTO Energy
Project: PCU 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5989-MB	FD13840.D	1	06/01/12	AV	06/01/12	OP5989	GFD733

The QC reported here applies to the following samples:

Method: SW846-8015B

D34957-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	87% 43-136%

Blank Spike Summary

Page 1 of 1

Job Number: D34957
Account: XTOKRWR XTO Energy
Project: PCU 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5989-BS	FD13841.D	1	06/01/12	AV	06/01/12	OP5989	GFD733

The QC reported here applies to the following samples:

Method: SW846-8015B

D34957-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	436	65	58-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	77%	43-136%

7.2.1

7

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D34957
Account: XTOKRWR XTO Energy
Project: PCU 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5989-MS	FD13868.D	10	06/02/12	AW	06/01/12	OP5989	GFD735
OP5989-MSD	FD13869.D	10	06/02/12	AW	06/01/12	OP5989	GFD735
D34956-1	FD13870.D	10	06/02/12	AW	06/01/12	OP5989	GFD735

The QC reported here applies to the following samples:

Method: SW846-8015B

D34957-1

CAS No.	Compound	D34956-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	6070		728	7330	173	7210	157	2	20-183/43

CAS No.	Surrogate Recoveries	MS	MSD	D34956-1	Limits
84-15-1	o-Terphenyl	73%	67%	56%	43-136%

7.3.1

7

GC Semi-volatiles

Raw Data

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JUNE\FD060112\FD13851.D Vial: 82
Acq On : 01 Jun 2012 11:05 pm Operator: ashleyv
Sample : D34957-1 Inst : FID5
Misc : OP5989,GFD733,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 02 09:32:11 2012 Quant Results File: DRO-GFD726R.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD726R.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu May 31 11:12:59 2012
Response via : Initial Calibration
DataAcq Meth : JH080911.M

Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	9.56	35311476	788.793 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	7.29	807883364	18849.975 mg/L

8.1.1

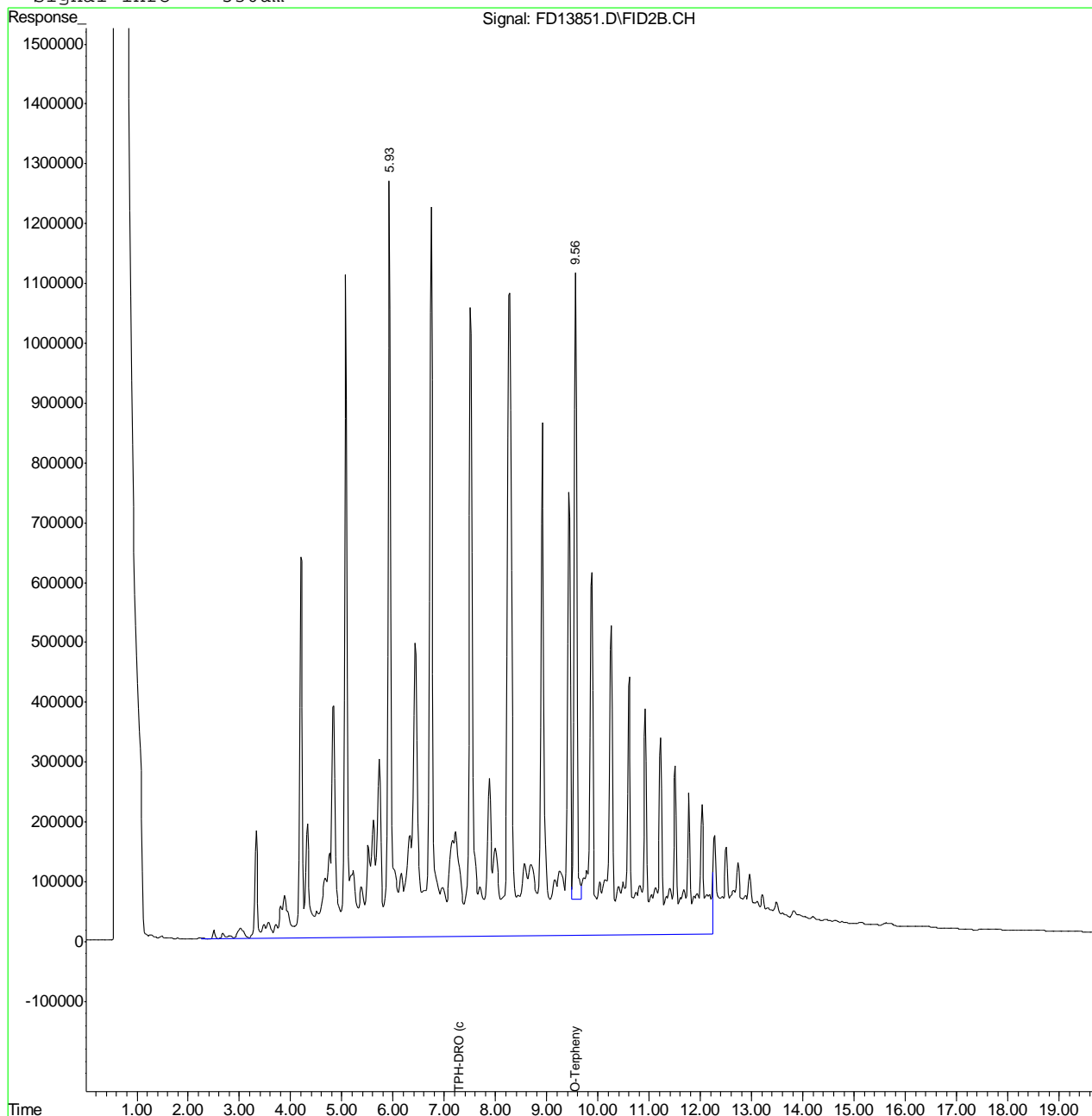
8

Quantitation Report (QT Reviewed)

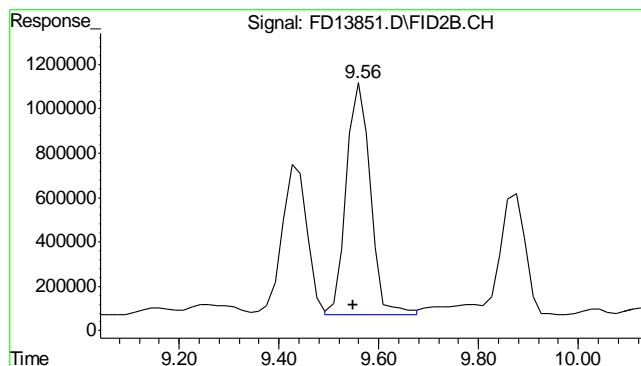
Data File : C:\MSDCHEM\2\DATA\2012\JUNE\FD060112\FD13851.D Vial: 82
 Acq On : 01 Jun 2012 11:05 pm Operator: ashleyv
 Sample : D34957-1 Inst : FID5
 Misc : OP5989,GFD733,30.00,,,2,1 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Jun 2 9:33 2012 Quant Results File: DRO-GFD726R.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD726R.M (Chemstation Integrator)
 Title : 8015B TEH
 Last Update : Thu May 31 11:12:59 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : JH080911.M

Volume Inj. : 1ul
 Signal Phase : RTX-5
 Signal Info : 530um

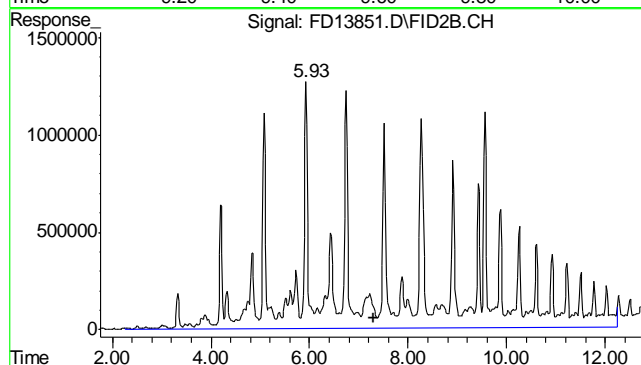


8.1.1
8



#1 O-Terphenyl

R.T.: 9.559 min
 Delta R.T.: 0.009 min
 Response: 35311476
 Conc: 788.79 mg/L m



#2 TPH-DRO (c10-c28)

R.T.: 7.290 min
 Delta R.T.: 0.000 min
 Response: 807883364
 Conc: 18849.97 mg/L m

8.1.1

8

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JUNE\FD060112\FD13840.D Vial: 71
Acq On : 6-1-2012 06:22:16 PM Operator: ashleyv
Sample : OP5989-MB Inst : FID5
Misc : OP5989,GFD733,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 02 09:12:03 2012 Quant Results File: DRO-GFD726R.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD726R.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu May 31 11:12:59 2012
Response via : Initial Calibration
DataAcq Meth : JH080911.M

Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	9.57	38825526	867.290 mg/L
Target Compounds			
2) H TPH-DRO (c10-c28)	7.29	1726579	40.285 mg/L

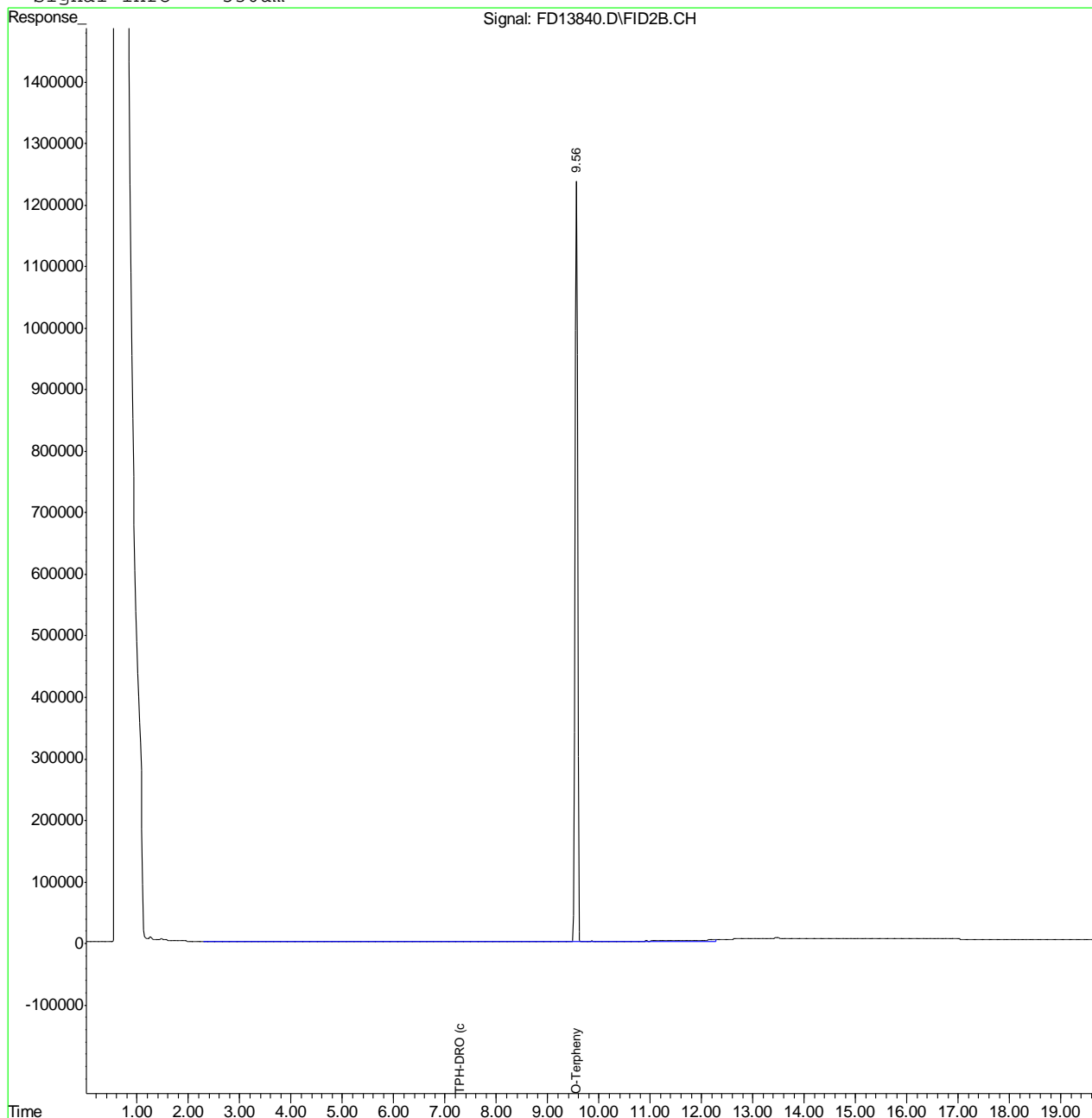
(f)=RT Delta > 1/2 Window (m)=manual int.
FD13840.D DRO-GFD726R.M Mon Jun 04 09:00:48 2012 GC

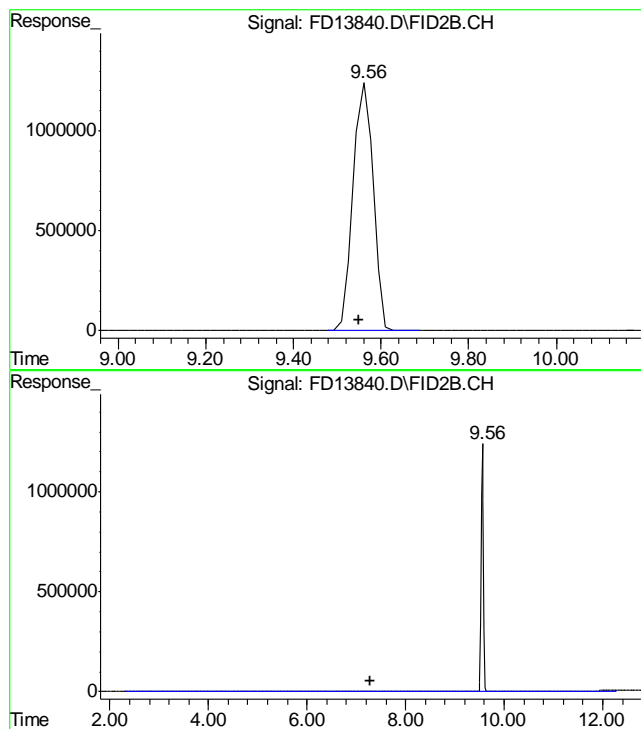
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JUNE\FD060112\FD13840.D Vial: 71
Acq On : 6-1-2012 06:22:16 PM Operator: ashleyv
Sample : OP5989-MB Inst : FID5
Misc : OP5989,GFD733,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 2 9:12 2012 Quant Results File: DRO-GFD726R.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD726R.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu May 31 11:12:59 2012
Response via : Multiple Level Calibration
DataAcq Meth : JH080911.M

Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





#1 O-Terphenyl

R.T.: 9.565 min
Delta R.T.: 0.015 min
Response: 38825526
Conc: 867.29 mg/L

#2 TPH-DRO (c10-c28)

R.T.: 7.290 min
Delta R.T.: 0.000 min
Response: 1726579
Conc: 40.29 mg/L m

8.2.1

8