



12/04/12

Technical Report for

XTO Energy

NPU 196-19B

Accutest Job Number: D41047

Sampling Date: 11/15/12

Report to:

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Total number of pages in report: 76



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: D41047

NPU 196-19B

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
D41047-1	11/15/12	10:20 DS	11/17/12	SO	Soil	S.E. RP SUBLINER (1)
D41047-2	11/15/12	10:25 DS	11/17/12	SO	Soil	S.E. RP SUBLINER (2)
D41047-3	11/15/12	10:30 DS	11/17/12	SO	Soil	S.E. RP SUBLINER (3)
D41047-4	11/15/12	10:35 DS	11/17/12	SO	Soil	S.E. RP SUBLINER (4)
D41047-5	11/15/12	10:40 DS	11/17/12	SO	Soil	S.E. RP SUBLINER (5)

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



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: XTO Energy

Job No D41047

Site: NPU 197-19B

Report Date 12/4/2012 3:11:04 PM

On 11/17/2012, 5 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.6 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D41047 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: GGB1016

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D41047-1MS, D41047-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO

Batch ID: OP7032

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D41047-2MS, D41047-2MSD were used as the QC samples indicated.
- The following samples were extracted outside of holding time for method SW846-8015B: D41047-2, D41047-4, D41047-5, D41047-1, D41047-3 Sample extracted beyond hold time per client instruction.
- D41047-5: Sample extracted beyond hold time per client instruction.
- D41047-4: Sample extracted beyond hold time per client instruction.
- D41047-3: Sample extracted beyond hold time per client request.
- D41047-2: Sample extracted beyond hold time per client instruction.
- D41047-1: Sample extracted beyond hold time per client request.

Wet Chemistry By Method SM19 2540B M

Matrix SO

Batch ID: GN17862

- 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: D41047
Account: XTO Energy
Project: NPU 196-19B
Collected: 11/15/12



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D41047-1	S.E. RP SUBLINER (1)					
TPH-GRO (C6-C10)		76.5	14	7.2	mg/kg	SW846 8015B
TPH-DRO (C10-C28) ^a		3150	81	49	mg/kg	SW846-8015B
D41047-2	S.E. RP SUBLINER (2)					
TPH-DRO (C10-C28) ^b		30.4	7.6	4.6	mg/kg	SW846-8015B
D41047-3	S.E. RP SUBLINER (3)					
TPH-DRO (C10-C28) ^a		1540	7.7	4.6	mg/kg	SW846-8015B
D41047-4	S.E. RP SUBLINER (4)					
TPH-DRO (C10-C28) ^b		34.9	7.6	4.6	mg/kg	SW846-8015B
D41047-5	S.E. RP SUBLINER (5)					
TPH-DRO (C10-C28) ^b		526	7.7	4.6	mg/kg	SW846-8015B

(a) Sample extracted beyond hold time per client request.

(b) Sample extracted beyond hold time per client instruction.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	S.E. RP SUBLINER (1)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-1	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	82.1
Method:	SW846 8015B		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB18640.D	1	11/29/12	SK	n/a	n/a	GGB1016
Run #2							

Run #	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)	76.5	14	7.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	97%		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:	S.E. RP SUBLINER (1)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-1	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	82.1
Method:	SW846-8015B SW846 3546		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	FD20124.D	10	12/03/12	TR	11/30/12	OP7032	GFD1010
Run #2							

Run #	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)	3150	81	49	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	72%		35-130%		

(a) Sample extracted beyond hold time per client request.

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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Client Sample ID:	S.E. RP SUBLINER (2)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-2	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	87.1
Method:	SW846 8015B		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB18643.D	1	11/29/12	SK	n/a	n/a	GGB1016
Run #2							

Run #	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	97%		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:	S.E. RP SUBLINER (2)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-2	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	87.1
Method:	SW846-8015B SW846 3546		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	FD20099.D	1	11/30/12	AV	11/30/12	OP7032	GFD1007
Run #2							

Run #	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)	30.4	7.6	4.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	67%		35-130%		

(a) Sample extracted beyond hold time per client instruction.

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:	S.E. RP SUBLINER (3)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-3	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846 8015B		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB18644.D	1	11/29/12	SK	n/a	n/a	GGB1016
Run #2							

Run #	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	13	6.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	92%		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

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Client Sample ID:	S.E. RP SUBLINER (3)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-3	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846-8015B SW846 3546		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	FD20126.D	1	12/03/12	TR	11/30/12	OP7032	GFD1010
Run #2							

Run #	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)	1540	7.7	4.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	72%		35-130%		

(a) Sample extracted beyond hold time per client request.

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:	S.E. RP SUBLINER (4)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-4	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	87.3
Method:	SW846 8015B		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB18645.D	1	11/29/12	SK	n/a	n/a	GGB1016
Run #2							

Run #	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	13	6.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	95%		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:	S.E. RP SUBLINER (4)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-4	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	87.3
Method:	SW846-8015B SW846 3546		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	FD20103.D	1	11/30/12	AV	11/30/12	OP7032	GFD1007
Run #2							

Run #	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)	34.9	7.6	4.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	69%		35-130%		

(a) Sample extracted beyond hold time per client instruction.

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:	S.E. RP SUBLINER (5)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-5	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	86.3
Method:	SW846 8015B		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB18646.D	1	11/29/12	SK	n/a	n/a	GGB1016
Run #2							

Run #	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	13	6.6	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:	S.E. RP SUBLINER (5)	Date Sampled:	11/15/12
Lab Sample ID:	D41047-5	Date Received:	11/17/12
Matrix:	SO - Soil	Percent Solids:	86.3
Method:	SW846-8015B SW846 3546		
Project:	NPU 196-19B		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	FD20105.D	1	11/30/12	AV	11/30/12	OP7032	GFD1007
Run #2							

Run #	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)	526	7.7	4.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	101%		35-130%		

(a) Sample extracted beyond hold time per client instruction.

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

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

PAGE 1 OF 1

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes												
Company Name KRW Consulting		Project Name: XTO NPW 197-19B														<div>DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank</div>												
Street Address 8000 West 14th Street; Suite 200		Billing Information (if different from Report to)																										
City Lakewood, CO 80214		Company Name XTO Energy																										
Project Contact Dwayne Knudson		Street Address 21455 CR 5																										
Phone # 970-488-1098		City Rifle, CO 81650																										
Sampler(s) Name(s) DAVID SANDERS 970-488-1098		Project # 1202-08		Client Purchase Order #		Attention: Jessica Dooling																						
Field ID / Point of Collection		MEQ/ID Vial #		Collection		Matrix		# of bottles		Number of preserved bottles												LAB USE ONLY						
				Date		Time		Sampled by		HCl		NaOH		HNO3		H2SO4		NONE		DI Water		MEOH		ENDORE		Sterilize		
S.E. RP SUBLINER (1)				11-15-12		10:20		DS		SO		2						X										01
S.E. RP SUBLINER (2)				1		10:25		1		SO		2						X										02
S.E. RP SUBLINER (3)				1		10:30		1		SO		2						X										03
S.E. RP SUBLINER (4)				1		10:35		1		SO		2						X										04
S.E. RP SUBLINER (5)				11-15-12		10:40		AS		SO		2						X										05
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:		Data Deliverable Information		Comments / Special Instructions																						
<input type="checkbox"/> Std. 10 Business Days <input checked="" type="checkbox"/> Std. 5 Business Days (By contract only) <input type="checkbox"/> 3 Day Emergency <input type="checkbox"/> 2 Day Emergency <input type="checkbox"/> 1 Day Emergency Emergency & Rush T/A data available VIA Lablink		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> COMMBN <input type="checkbox"/> COMMBN+ <input type="checkbox"/> Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial BN = Results/QC/Narrative (+ chromatograms)		<input type="checkbox"/> State Forms Required <input type="checkbox"/> Send Forms to State <input type="checkbox"/> Report by Fax <input checked="" type="checkbox"/> Report by PDF ONLY <input type="checkbox"/> EDD Format		Please email to: KRW Piceance Team ON HOLD UNTIL KRW CONTACTS																						
Relinquished by Sampler: 1 Lori Albinger		Date Time: 11/15/12 15:30		Received By: Big Service Center		Relinquished By: 2		Date Time: 11/17 1010																				
Relinquished by Sampler: 3		Date Time:		Received By: 3		Relinquished By: 4		Date Time:																				
Relinquished by: 5		Date Time:		Received By: 5		Custody Seal # FEU 60		Contact <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable <input type="checkbox"/>		On Ice <input checked="" type="checkbox"/>		Cooler Temp. 2.6														

D41047: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D41047

Client: KRW CONSULTING

Immediate Client Services Action Required: No

Date / Time Received: 11/17/2012 10:10:00 A

No. Coolers: 1

Client Service Action Required at Login: No

Project: XTO NPU 197-19B

Airbill #'s: FedEx

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

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: D41047
Account: XTOKRWR XTO Energy
Project: NPU 196-19B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB1016-MB	GB18638.D	1	11/29/12	SK	n/a	n/a	GGB1016

The QC reported here applies to the following samples:

Method: SW846 8015B

D41047-1, D41047-2, D41047-3, D41047-4, D41047-5

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	90% 60-140%

Blank Spike Summary

Page 1 of 1

Job Number: D41047
Account: XTOKRWR XTO Energy
Project: NPU 196-19B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB1016-BS	GB18639.D	1	11/29/12	SK	n/a	n/a	GGB1016

The QC reported here applies to the following samples:

Method: SW846 8015B

D41047-1, D41047-2, D41047-3, D41047-4, D41047-5

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	107%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D41047
Account: XTOKRWR XTO Energy
Project: NPU 196-19B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D41047-1MS	GB18641.D	1	11/29/12	SK	n/a	n/a	GGB1016
D41047-1MSD	GB18642.D	1	11/29/12	SK	n/a	n/a	GGB1016
D41047-1	GB18640.D	1	11/29/12	SK	n/a	n/a	GGB1016

The QC reported here applies to the following samples:

Method: SW846 8015B

D41047-1, D41047-2, D41047-3, D41047-4, D41047-5

CAS No.	Compound	D41047-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	76.5		157	249	110	246	108	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D41047-1	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	108%	97%	60-140%

* = Outside of Control Limits.

GC Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18640.D\FID1A.CH Vial: 5
Signal #2 : Y:\1\DATA\112912\GB18640.D\FID2B.CH
Acq On : 29 Nov 2012 2:50 pm Operator: StephK
Sample : D41047-1, 50X Inst : GC/MS Ins
Misc : GC3260,GGB1016,5.019,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 29 18:08:05 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Nov 29 18:07:37 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

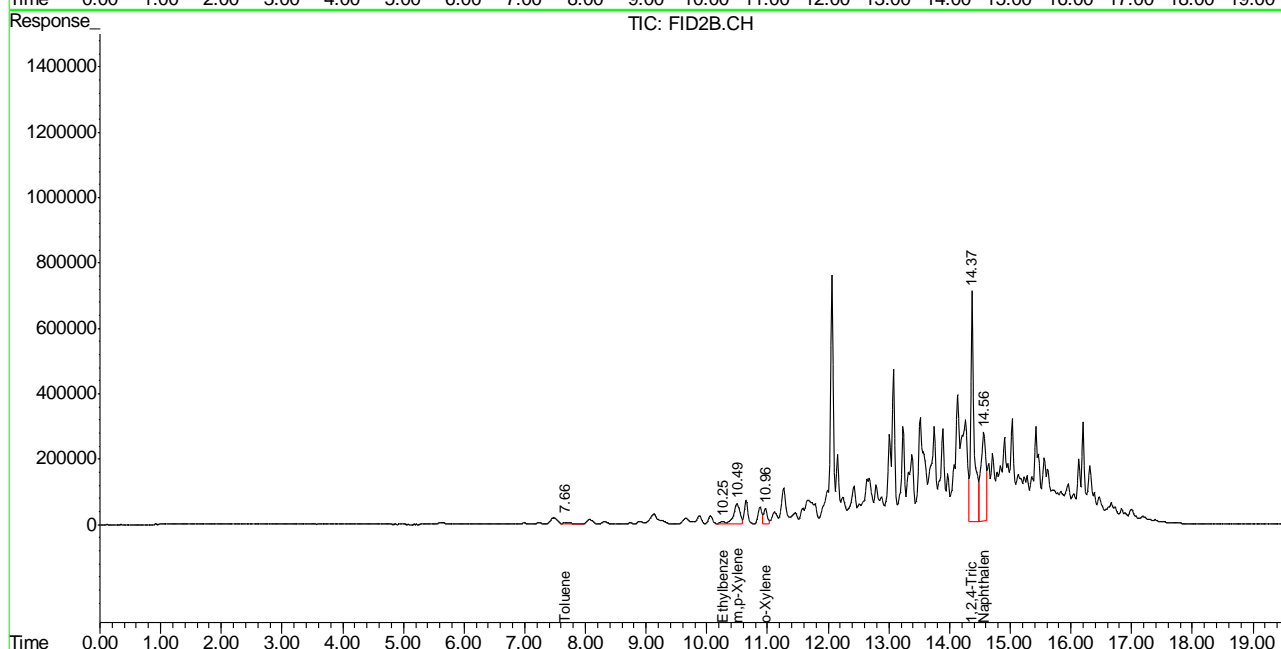
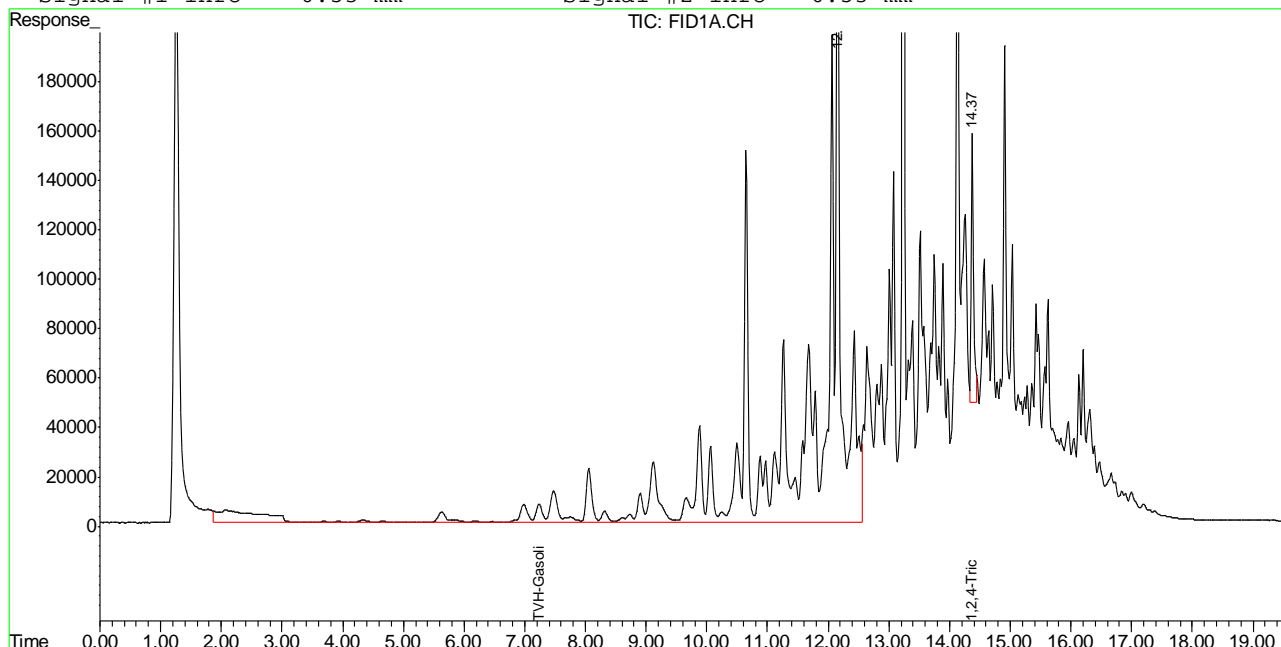
System Monitoring Compounds					
2) S	1,2,4-Trichlorobenzene	14.37	3043315	97.125 %	m
10) S	1,2,4-Trichlorobenzene (P)	14.37	26490545	162.991 %	
Target Compounds					
1) H	TVH-Gasoline	7.23	69310433	1.069 mg/L	
4) T	Methyl-t-butyl-ether	0.00	0	N.D. ug/L	d
5) T	Benzene	0.00	0	N.D. ug/L	d
6) T	Toluene	7.66	481026	1.214 ug/L	
7) T	Ethylbenzene	10.25	390552	1.155 ug/L	
8) T	m,p-Xylene	10.49	4348293	11.540 ug/L	
9) T	o-Xylene	10.96	1905707	5.804 ug/L	
11) T	Naphthalene	14.56	16294610	82.584 ug/L	

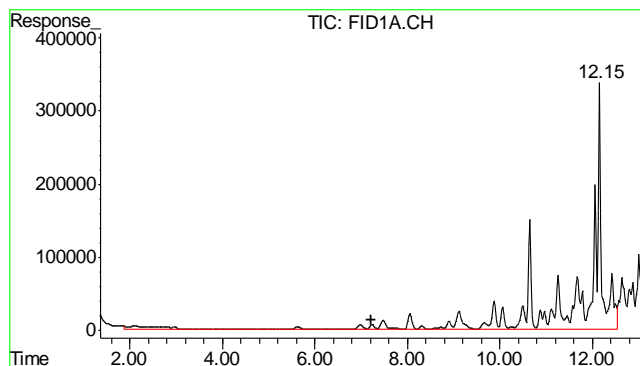
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18640.D\FID1A.CH Vial: 5
 Signal #2 : Y:\1\DATA\112912\GB18640.D\FID2B.CH
 Acq On : 29 Nov 2012 2:50 pm Operator: StephK
 Sample : D41047-1, 50X Inst : GC/MS Ins
 Misc : GC3260,GGB1016,5.019,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 29 18:11 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Nov 29 18:07:37 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

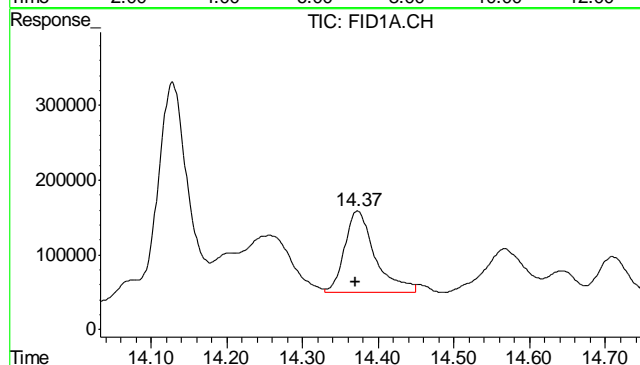
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





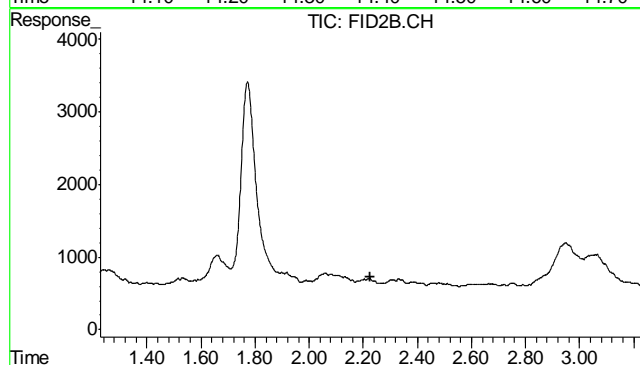
#1 TVH-Gasoline

R.T.: 7.230 min
 Delta R.T.: 0.000 min
 Response: 69310433
 Conc: 1.07 mg/L m



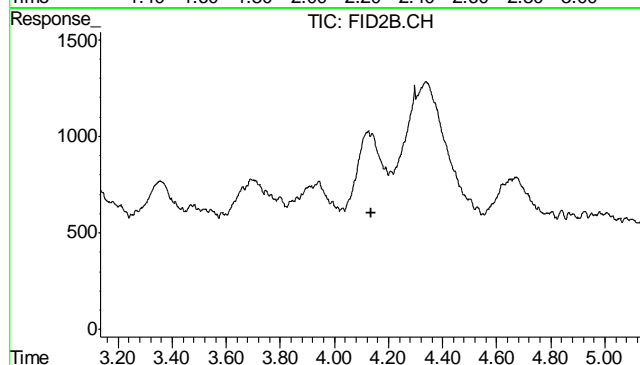
#2 1,2,4-Trichlorobenzene

R.T.: 14.372 min
 Delta R.T.: 0.001 min
 Response: 3043315
 Conc: 97.12 % m



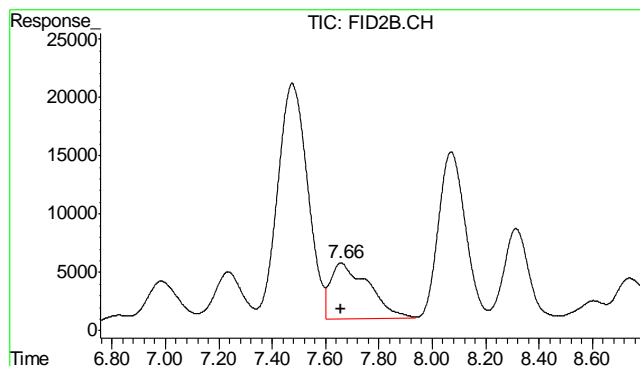
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
 Exp R.T.: 2.227 min
 Response: 0
 Conc: N.D.

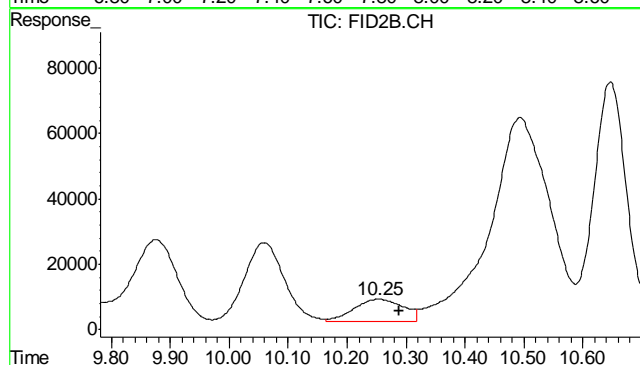


#5 Benzene

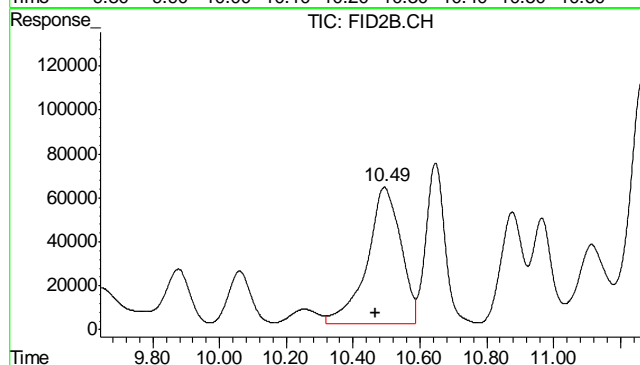
R.T.: 0.000 min
 Exp R.T.: 4.134 min
 Response: 0
 Conc: N.D.



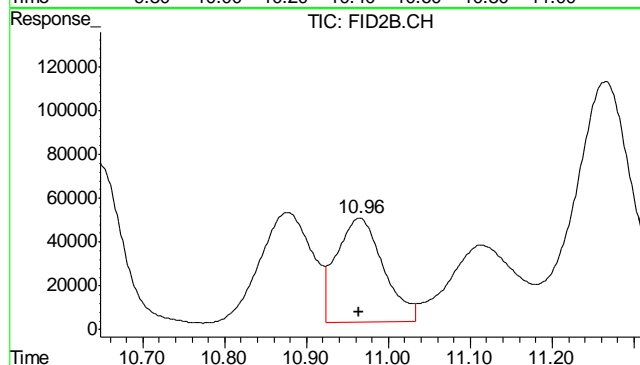
#6 Toluene
 R.T.: 7.657 min
 Delta R.T.: 0.000 min
 Response: 481026
 Conc: 1.21 ug/L



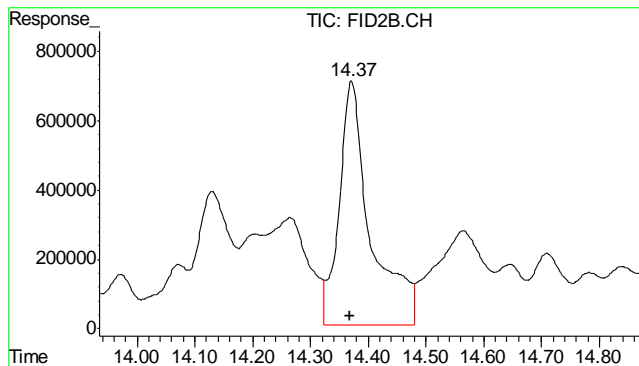
#7 Ethylbenzene
 R.T.: 10.253 min
 Delta R.T.: -0.034 min
 Response: 390552
 Conc: 1.15 ug/L



#8 m,p-Xylene
 R.T.: 10.493 min
 Delta R.T.: 0.025 min
 Response: 4348293
 Conc: 11.54 ug/L

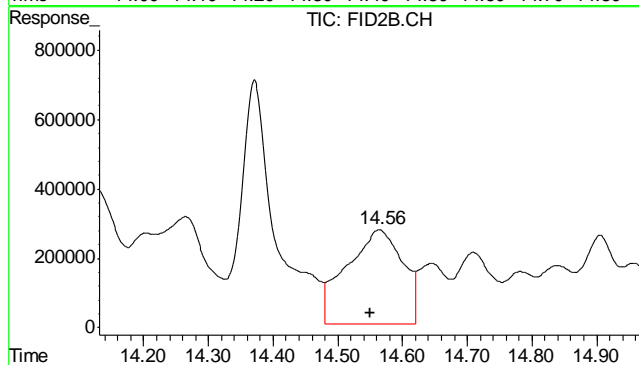


#9 o-Xylene
 R.T.: 10.965 min
 Delta R.T.: 0.000 min
 Response: 1905707
 Conc: 5.80 ug/L



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

R.T.: 14.371 min
 Delta R.T.: 0.003 min
 Response: 26490545
 Conc: 162.99 %



#11 Naphthalene

R.T.: 14.564 min
 Delta R.T.: 0.014 min
 Response: 16294610
 Conc: 82.58 ug/L

7.1.1
7

Judy Melson
11/30/12 08:52

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18643.D\FID1A.CH Vial: 8
 Signal #2 : Y:\1\DATA\112912\GB18643.D\FID2B.CH
 Acq On : 29 Nov 2012 4:37 pm Operator: StephK
 Sample : D41047-2, 50X Inst : GC/MS Ins
 Misc : GC3260,GGB1016,5.090,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 29 18:08:17 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Nov 29 18:07:37 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	14.37	3029180	96.674 %	m
10) S	1,2,4-Trichlorobenzene (P)	14.37	15659628	96.351 %	
Target Compounds					
1) H	TVH-Gasoline	7.23	4308636	<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	7.67	173003	0.437	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	14.55	815655	4.134	ug/L

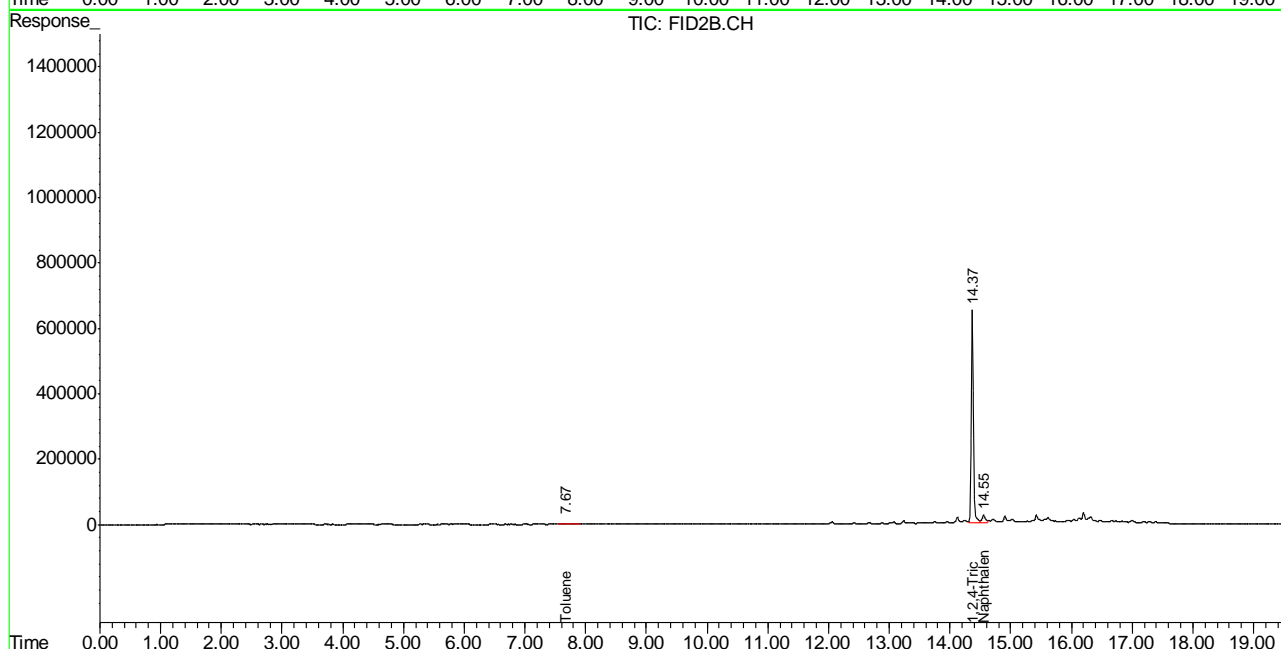
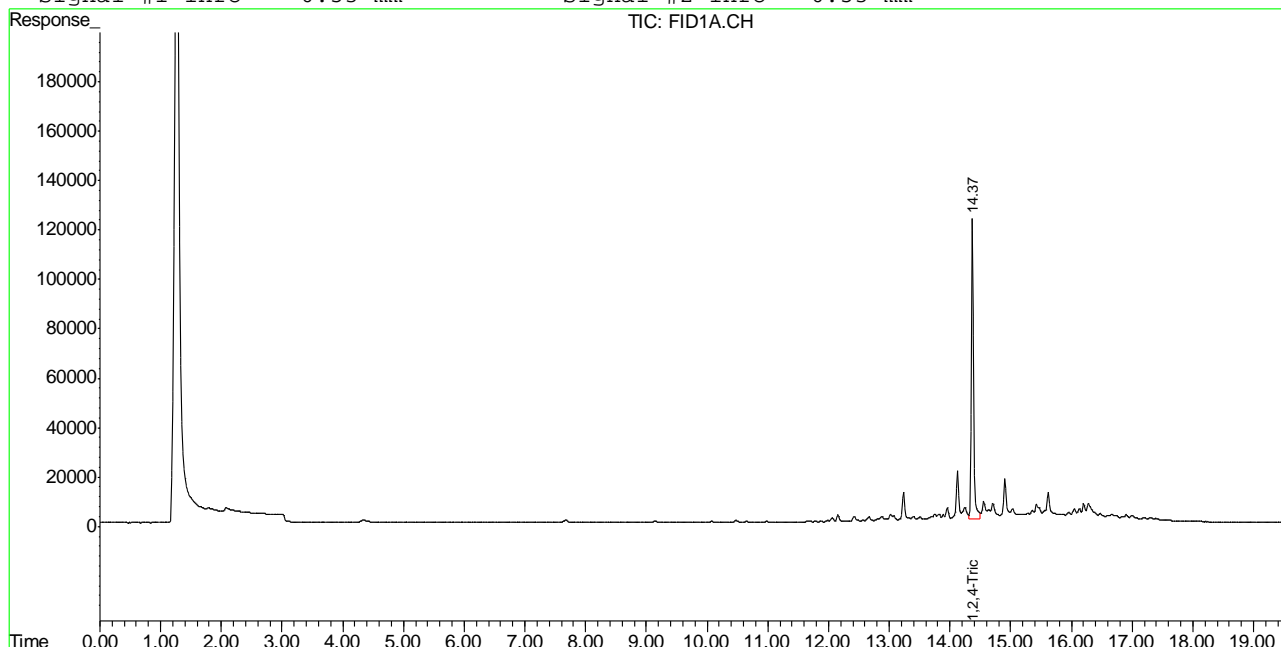
(f)=RT Delta > 1/2 Window (m)=manual int.
 GB18643.D TB868GB868SOIL.M Fri Nov 30 08:28:19 2012 GC

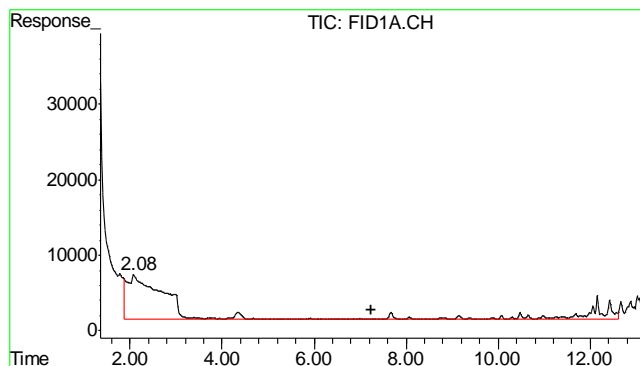
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18643.D\FID1A.CH Vial: 8
 Signal #2 : Y:\1\DATA\112912\GB18643.D\FID2B.CH
 Acq On : 29 Nov 2012 4:37 pm Operator: StephK
 Sample : D41047-2, 50X Inst : GC/MS Ins
 Misc : GC3260,GGB1016,5.090,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 29 18:11 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Nov 29 18:07:37 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

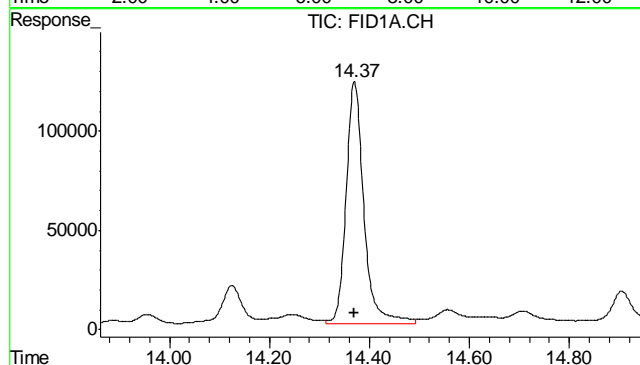
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





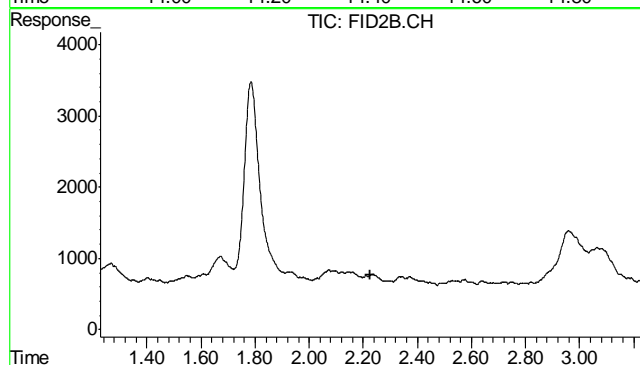
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 4308636
Conc: N.D.



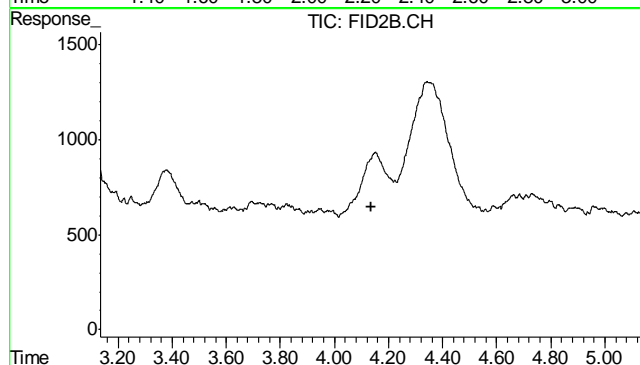
#2 1,2,4-Trichlorobenzene

R.T.: 14.369 min
Delta R.T.: -0.001 min
Response: 3029180
Conc: 96.67 % m



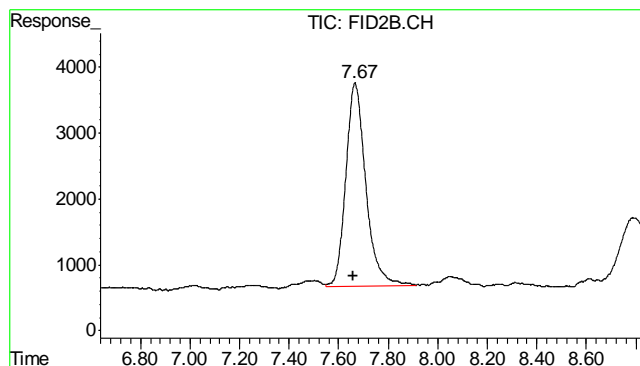
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.227 min
Response: 0
Conc: N.D.



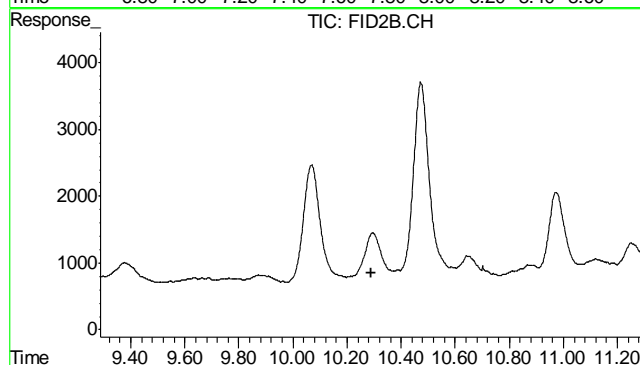
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.134 min
Response: 0
Conc: N.D.



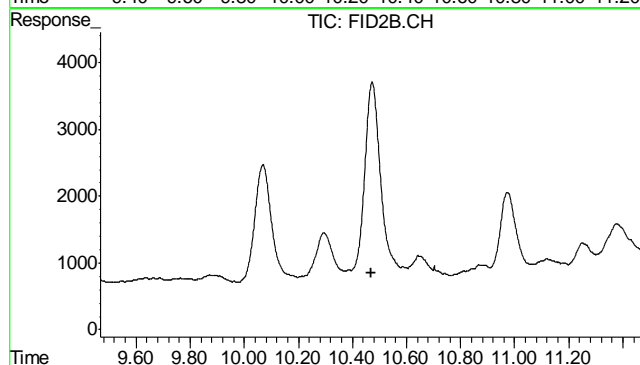
#6 Toluene

R.T.: 7.665 min
Delta R.T.: 0.008 min
Response: 173003
Conc: 0.44 ug/L



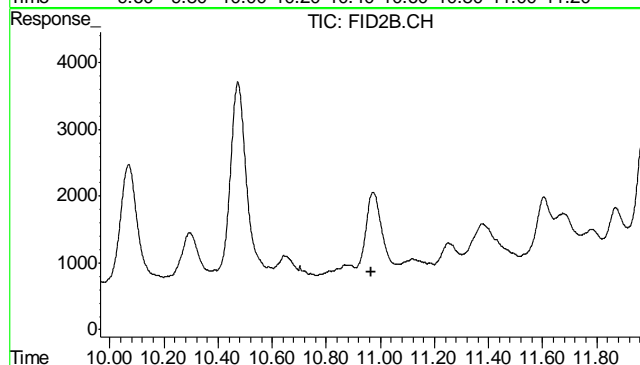
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T.: 10.288 min
Response: 0
Conc: N.D.



#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T.: 10.468 min
Response: 0
Conc: N.D.

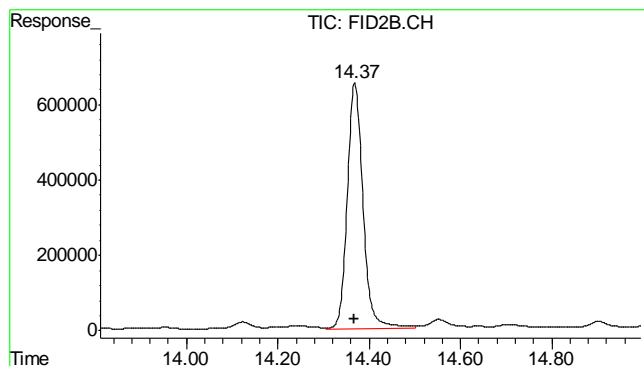


#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.964 min
Response: 0
Conc: N.D.

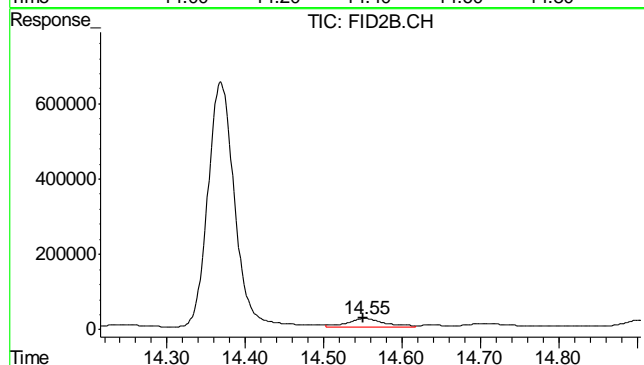
7.1.2

7



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

R.T.: 14.369 min
Delta R.T.: 0.000 min
Response: 15659628
Conc: 96.35 %



#11 Naphthalene

R.T.: 14.553 min
Delta R.T.: 0.002 min
Response: 815655
Conc: 4.13 ug/L

7.1.2

7

Judy Melson
11/30/12 08:52

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18644.D\FID1A.CH Vial: 9
 Signal #2 : Y:\1\DATA\112912\GB18644.D\FID2B.CH
 Acq On : 29 Nov 2012 5:12 pm Operator: StephK
 Sample : D41047-3, 50X Inst : GC/MS Ins
 Misc : GC3260,GGB1016,5.007,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 29 18:08:21 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Nov 29 18:07:37 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	14.37	2873566	91.708 %	m
10) S 1,2,4-Trichlorobenzene (P)	14.37	16499243	101.517 %	
Target Compounds				
1) H TVH-Gasoline	7.23	4340747	<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	7.66	160931	0.406	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	2486007	12.600	ug/L

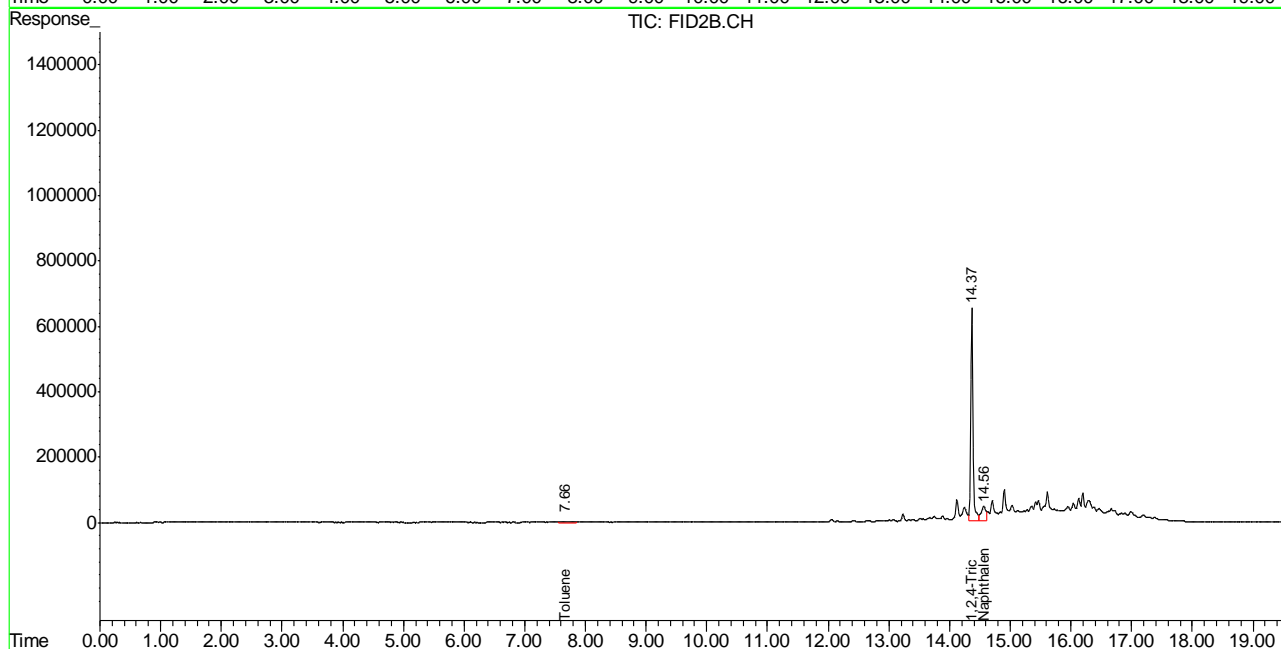
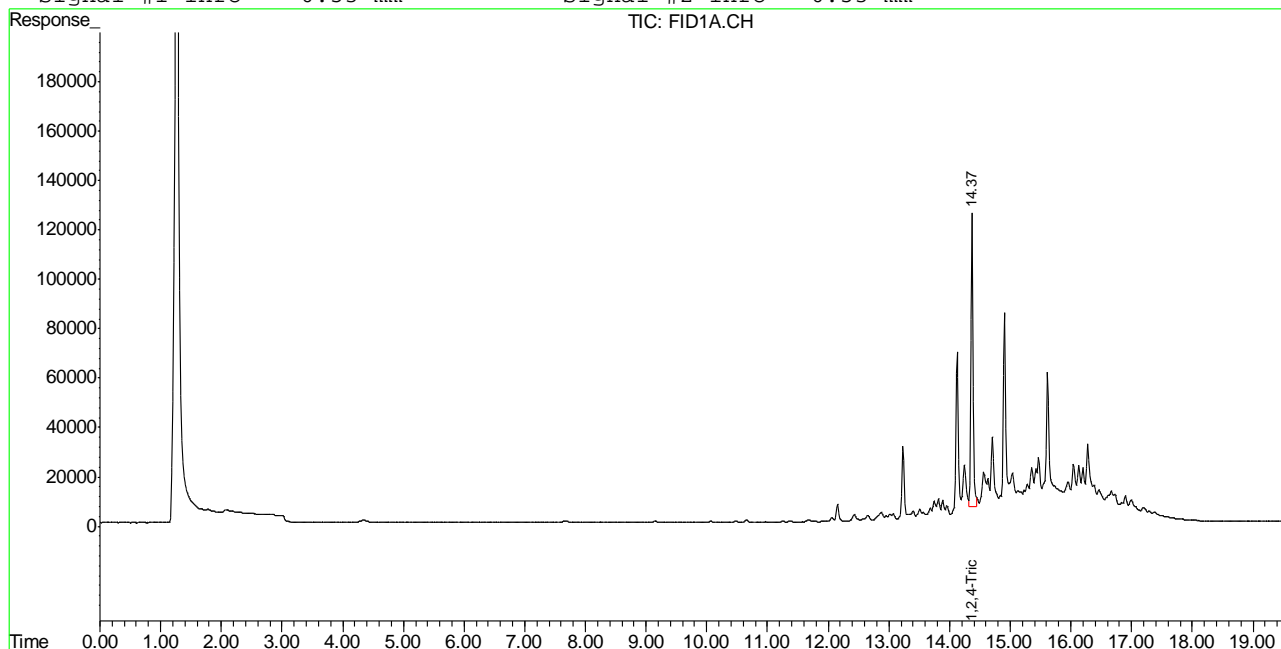
(f)=RT Delta > 1/2 Window (m)=manual int.
 GB18644.D TB868GB868SOIL.M Fri Nov 30 08:28:22 2012 GC

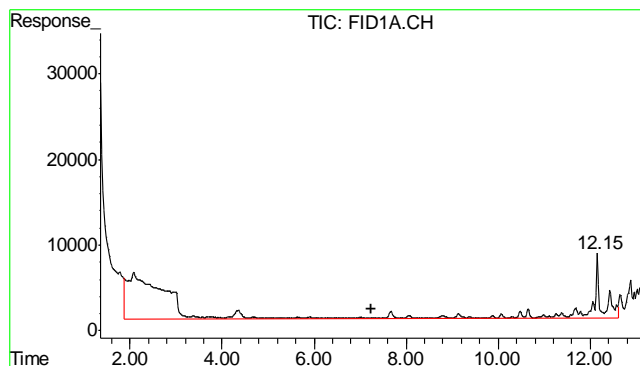
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18644.D\FID1A.CH Vial: 9
 Signal #2 : Y:\1\DATA\112912\GB18644.D\FID2B.CH
 Acq On : 29 Nov 2012 5:12 pm Operator: StephK
 Sample : D41047-3, 50X Inst : GC/MS Ins
 Misc : GC3260,GGB1016,5.007,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 29 18:11 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Nov 29 18:07:37 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

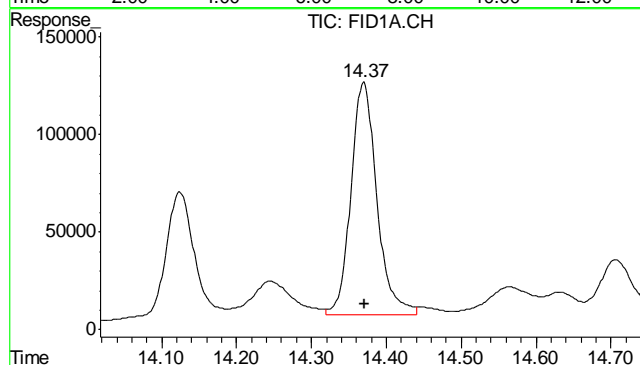
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





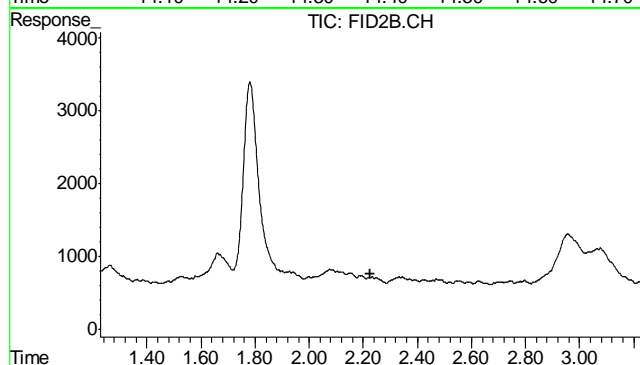
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 4340747
Conc: N.D.



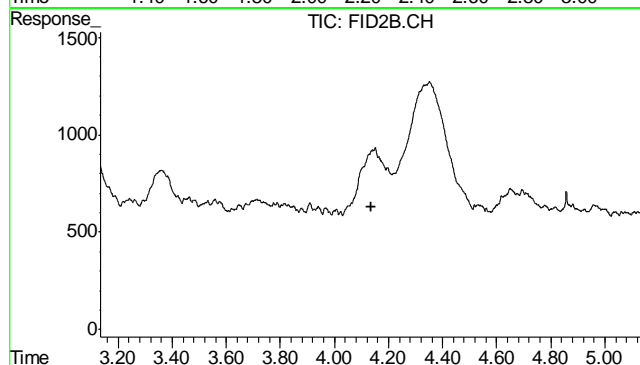
#2 1,2,4-Trichlorobenzene

R.T.: 14.369 min
Delta R.T.: -0.001 min
Response: 2873566
Conc: 91.71 % m



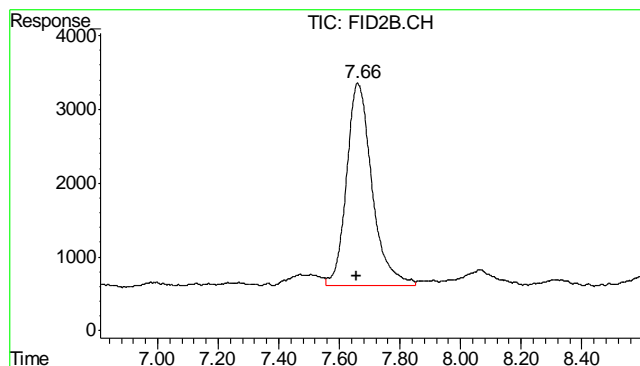
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.227 min
Response: 0
Conc: N.D.



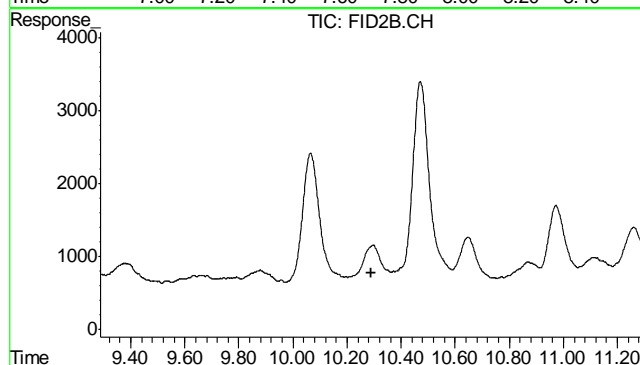
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.134 min
Response: 0
Conc: N.D.



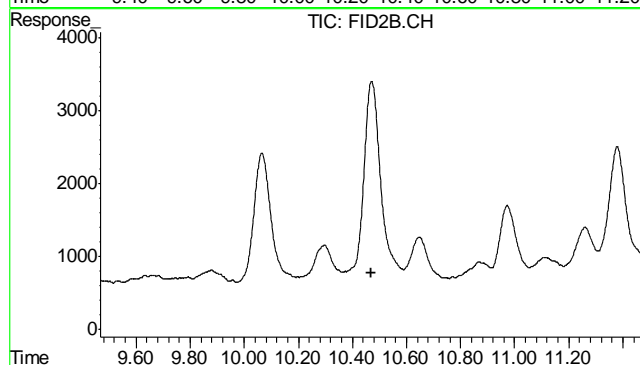
#6 Toluene

R.T.: 7.660 min
Delta R.T.: 0.003 min
Response: 160931
Conc: 0.41 ug/L



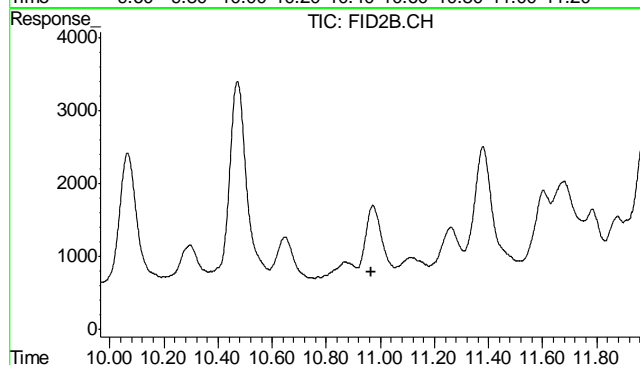
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T.: 10.288 min
Response: 0
Conc: N.D.



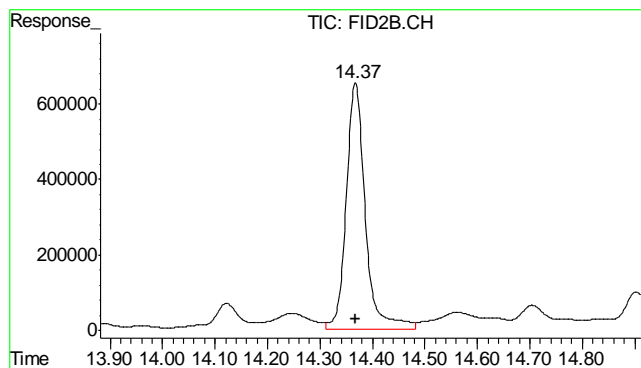
#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T.: 10.468 min
Response: 0
Conc: N.D.



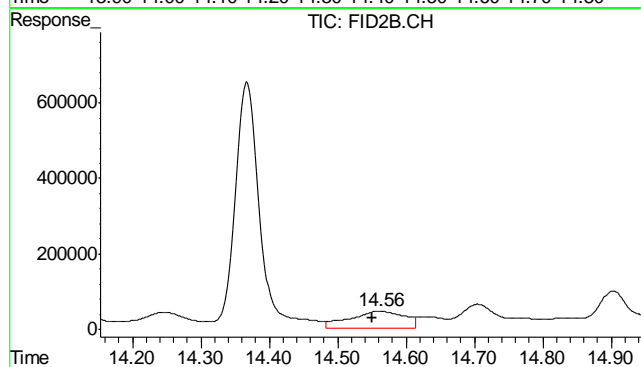
#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.964 min
Response: 0
Conc: N.D.



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

R.T.: 14.368 min
 Delta R.T.: 0.000 min
 Response: 16499243
 Conc: 101.52 %



#11 Naphthalene

R.T.: 14.562 min
 Delta R.T.: 0.011 min
 Response: 2486007
 Conc: 12.60 ug/L

7.1.3
7

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18645.D\FID1A.CH Vial: 10
 Signal #2 : Y:\1\DATA\112912\GB18645.D\FID2B.CH
 Acq On : 29 Nov 2012 5:48 pm Operator: StephK
 Sample : D41047-4, 50X Inst : GC/MS Ins
 Misc : GC3260,GGB1016,5.021,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 29 18:08:25 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Nov 29 18:07:37 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	14.37	2968263	94.730	%
10) S 1,2,4-Trichlorobenzene (P)	14.37	15353961	94.470	%
Target Compounds				
1) H TVH-Gasoline	7.23	3849219	<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	7.66	117597	0.297	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	14.55	267194	1.354	ug/L

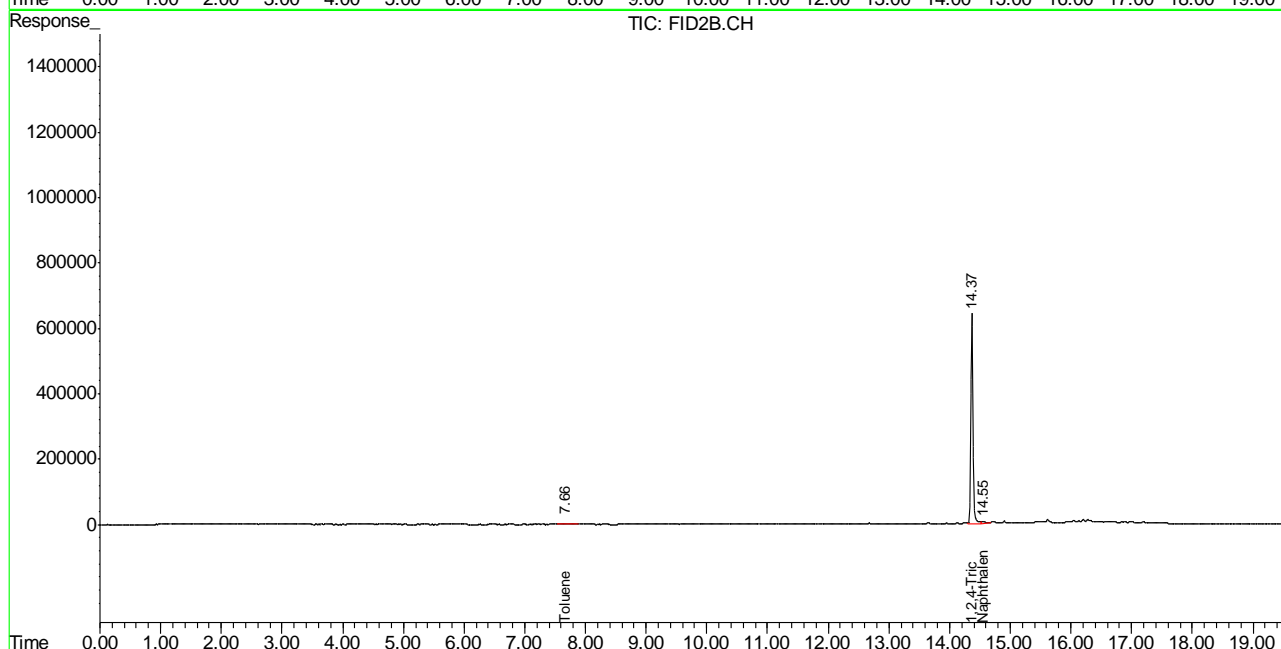
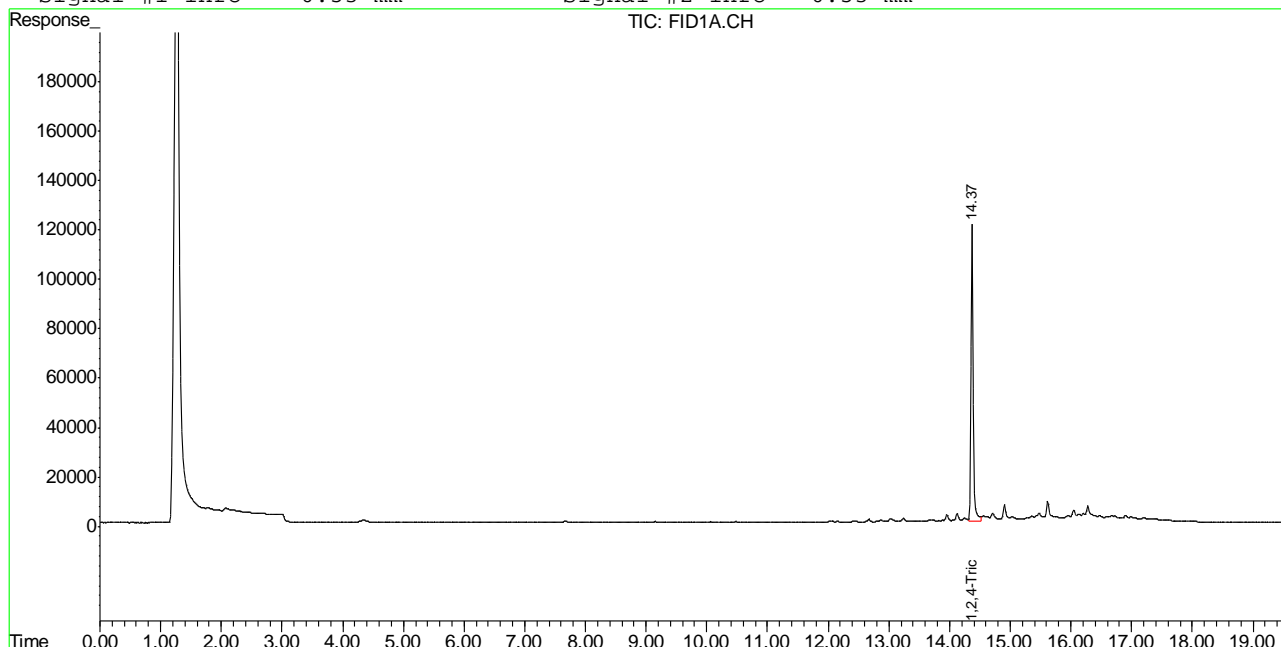
(f)=RT Delta > 1/2 Window (m)=manual int.
 GB18645.D TB868GB868SOIL.M Fri Nov 30 08:28:25 2012 GC

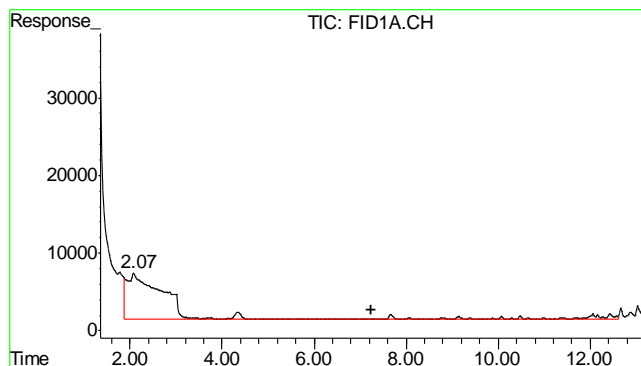
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18645.D\FID1A.CH Vial: 10
 Signal #2 : Y:\1\DATA\112912\GB18645.D\FID2B.CH
 Acq On : 29 Nov 2012 5:48 pm Operator: StephK
 Sample : D41047-4, 50X Inst : GC/MS Ins
 Misc : GC3260,GGB1016,5.021,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 29 18:12 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Nov 29 18:07:37 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

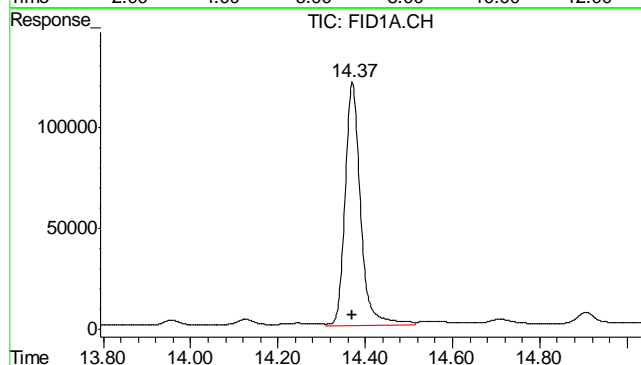
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





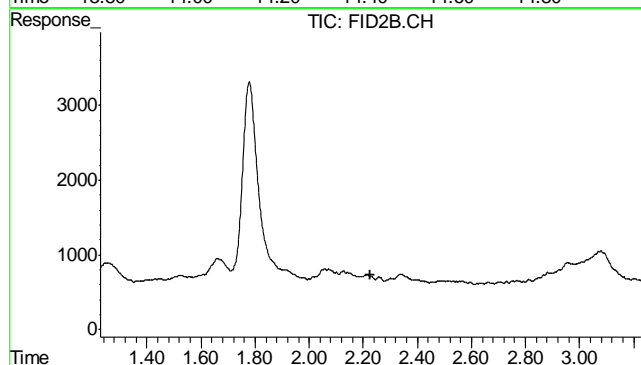
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 3849219
Conc: N.D.



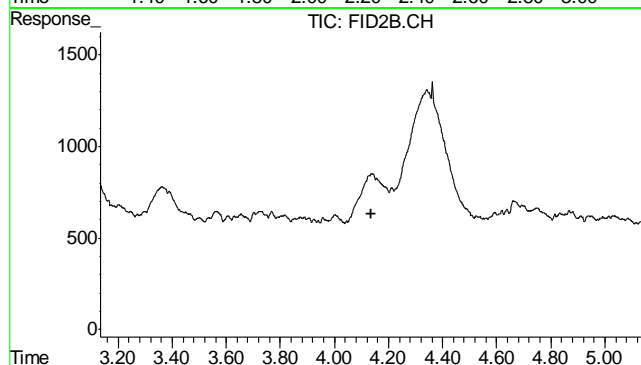
#2 1,2,4-Trichlorobenzene

R.T.: 14.371 min
Delta R.T.: 0.000 min
Response: 2968263
Conc: 94.73 %



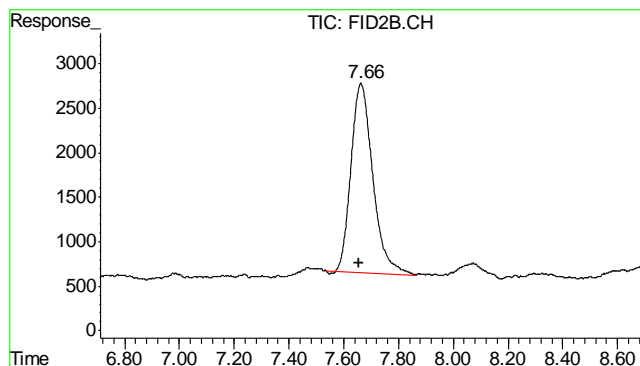
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.227 min
Response: 0
Conc: N.D.



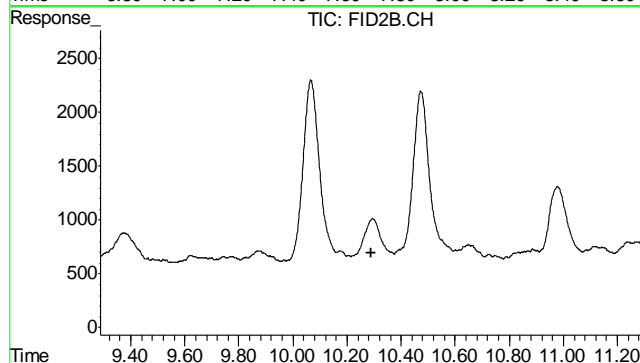
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.134 min
Response: 0
Conc: N.D.



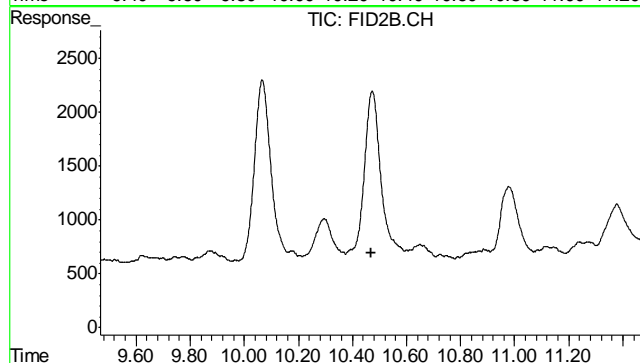
#6 Toluene

R.T.: 7.663 min
Delta R.T.: 0.005 min
Response: 117597
Conc: 0.30 ug/L



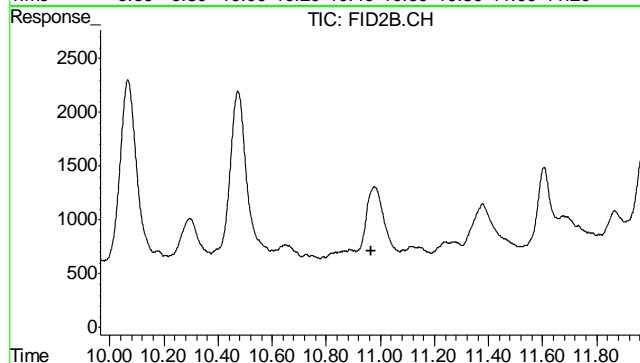
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T. : 10.288 min
Response: 0
Conc: N.D.



#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T. : 10.468 min
Response: 0
Conc: N.D.

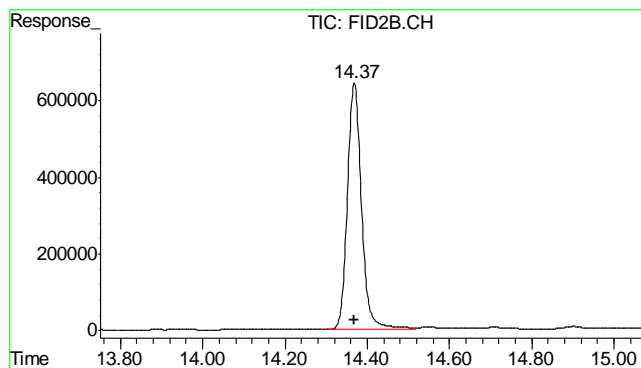


#9 o-Xylene

R.T.: 0.000 min
Exp R.T. : 10.964 min
Response: 0
Conc: N.D.

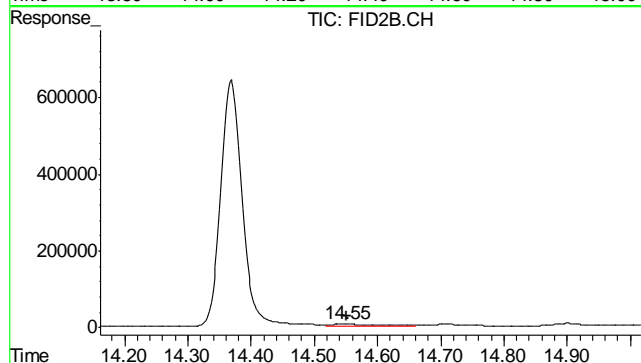
7.1.4

7



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

R.T.: 14.369 min
 Delta R.T.: 0.000 min
 Response: 15353961
 Conc: 94.47 %



#11 Naphthalene

R.T.: 14.550 min
 Delta R.T.: 0.000 min
 Response: 267194
 Conc: 1.35 ug/L

7.1.4

7

Judy Melson
11/30/12 08:52

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18646.D\FID1A.CH Vial: 11
 Signal #2 : Y:\1\DATA\112912\GB18646.D\FID2B.CH
 Acq On : 29 Nov 2012 6:23 pm Operator: StephK
 Sample : D41047-5, 50X Inst : GC/MS Ins
 Misc : GC3260,GGB1016,5.016,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 29 18:46:19 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Nov 29 18:07:37 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	14.37	2834611	90.464 %	m
10) S 1,2,4-Trichlorobenzene (P)	14.37	14305634	88.020 %	
Target Compounds				
1) H TVH-Gasoline	7.23	4033583	<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	7.67	150966	0.381	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	533180	2.702	ug/L

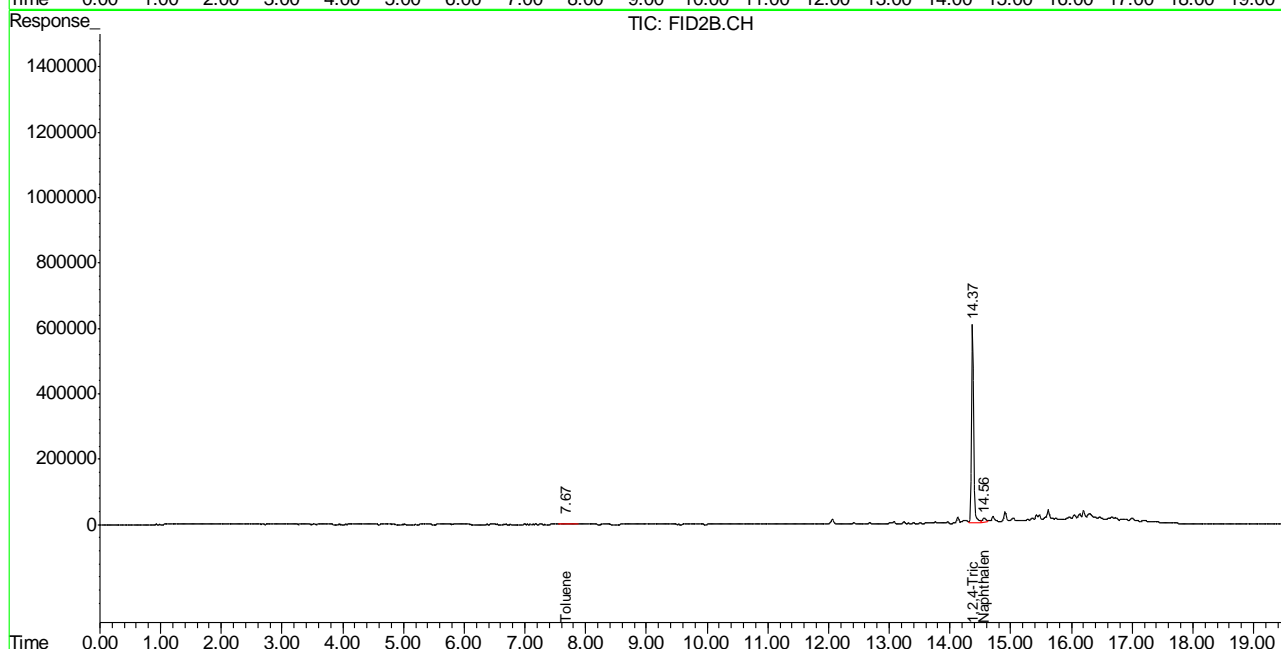
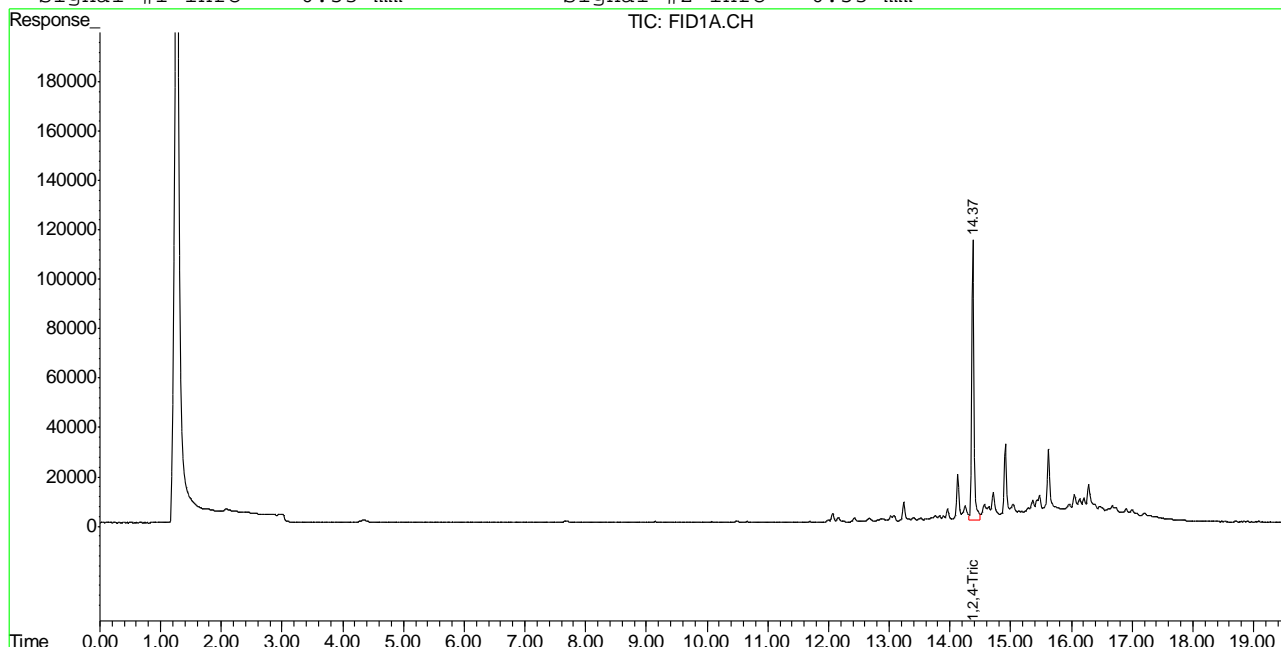
(f)=RT Delta > 1/2 Window (m)=manual int.
 GB18646.D TB868GB868SOIL.M Fri Nov 30 08:28:28 2012 GC

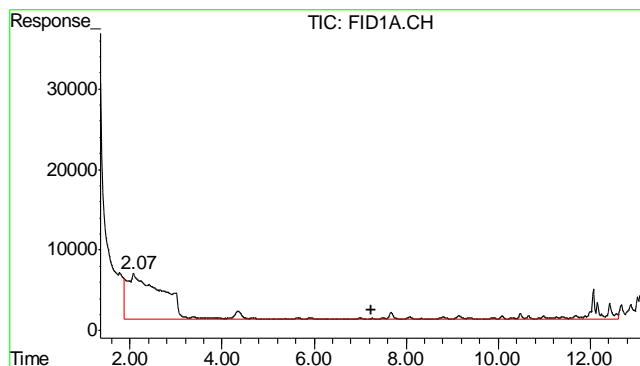
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18646.D\FID1A.CH Vial: 11
 Signal #2 : Y:\1\DATA\112912\GB18646.D\FID2B.CH
 Acq On : 29 Nov 2012 6:23 pm Operator: StephK
 Sample : D41047-5, 50X Inst : GC/MS Ins
 Misc : GC3260,GGB1016,5.016,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 29 18:49 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Thu Nov 29 18:07:37 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

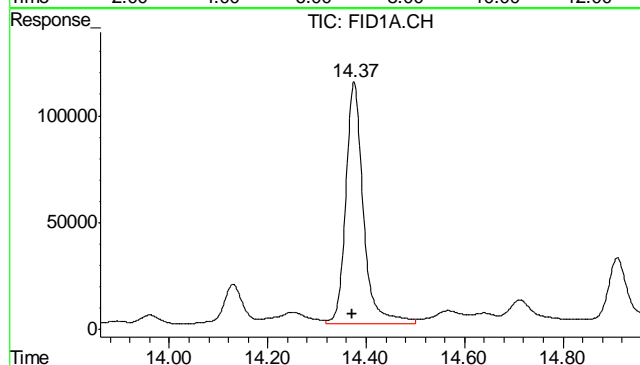
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





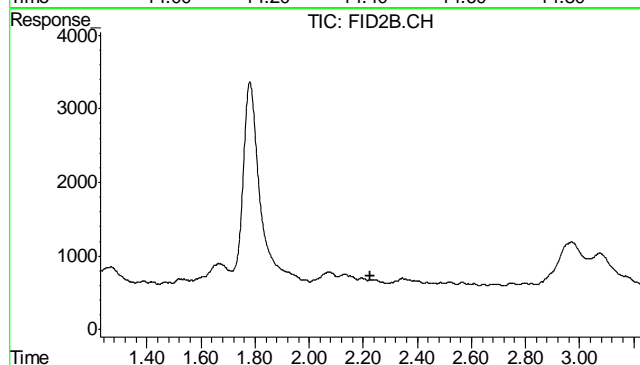
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 4033583
Conc: N.D.



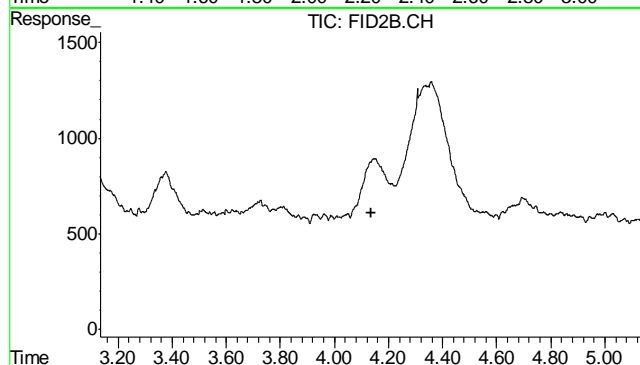
#2 1,2,4-Trichlorobenzene

R.T.: 14.375 min
Delta R.T.: 0.004 min
Response: 2834611
Conc: 90.46 % m



#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.227 min
Response: 0
Conc: N.D.

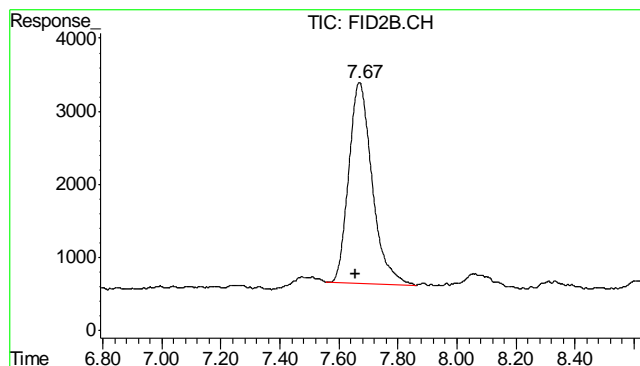


#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.134 min
Response: 0
Conc: N.D.

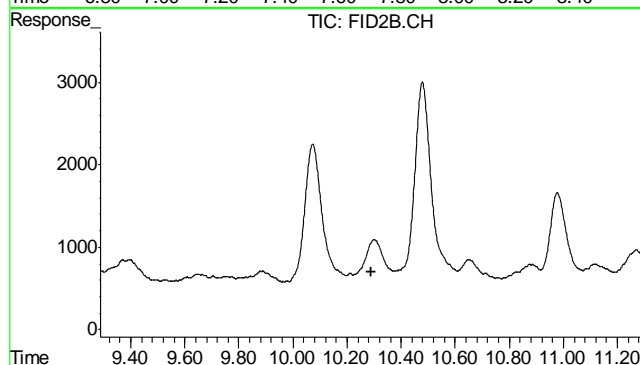
7.1.5

7



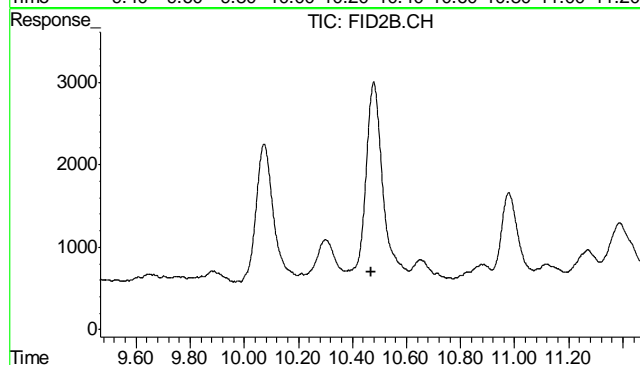
#6 Toluene

R.T.: 7.670 min
Delta R.T.: 0.012 min
Response: 150966
Conc: 0.38 ug/L



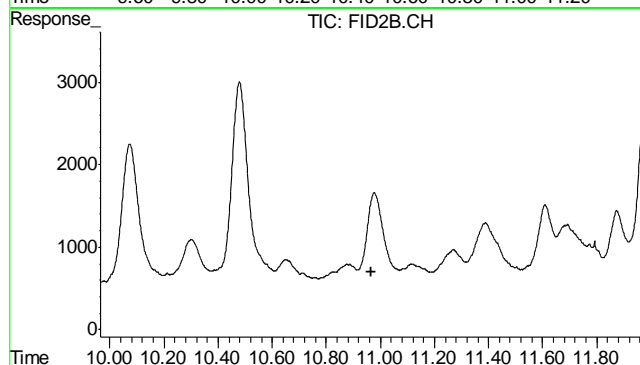
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T.: 10.288 min
Response: 0
Conc: N.D.



#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T.: 10.468 min
Response: 0
Conc: N.D.

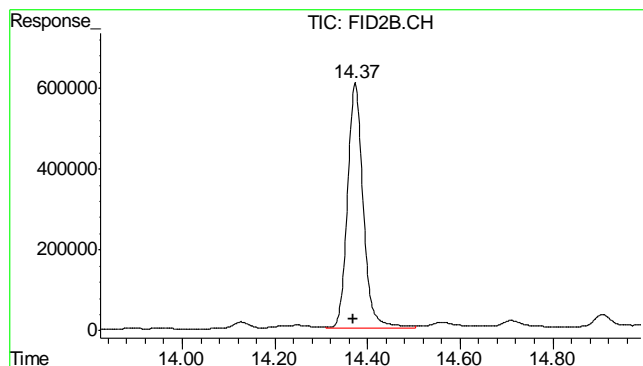


#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.964 min
Response: 0
Conc: N.D.

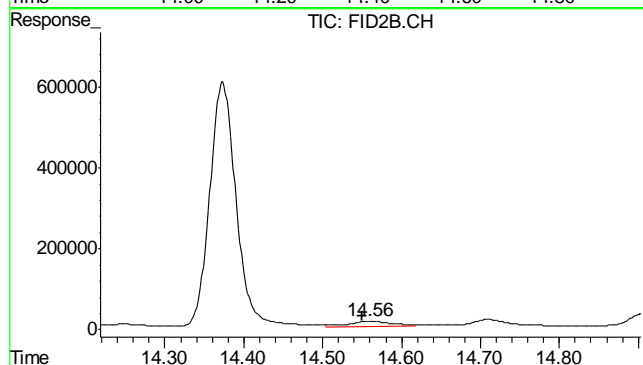
7.1.5

7



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

R.T.: 14.373 min
Delta R.T.: 0.005 min
Response: 14305634
Conc: 88.02 %



#11 Naphthalene

R.T.: 14.560 min
Delta R.T.: 0.009 min
Response: 533180
Conc: 2.70 ug/L

7.1.5

7

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18638.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\112912\GB18638.D\FID2B.CH
Acq On : 29 Nov 2012 1:39 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC3260,GGB1016,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 29 18:07:57 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Nov 29 18:07:37 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	14.37	2827268	90.230	%
10) S 1,2,4-Trichlorobenzene (P)	14.37	14819830	91.184	%
Target Compounds				
1) H TVH-Gasoline	7.23	3713773	<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	7.66	177074	0.447	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	14.55	213770	1.083	ug/L

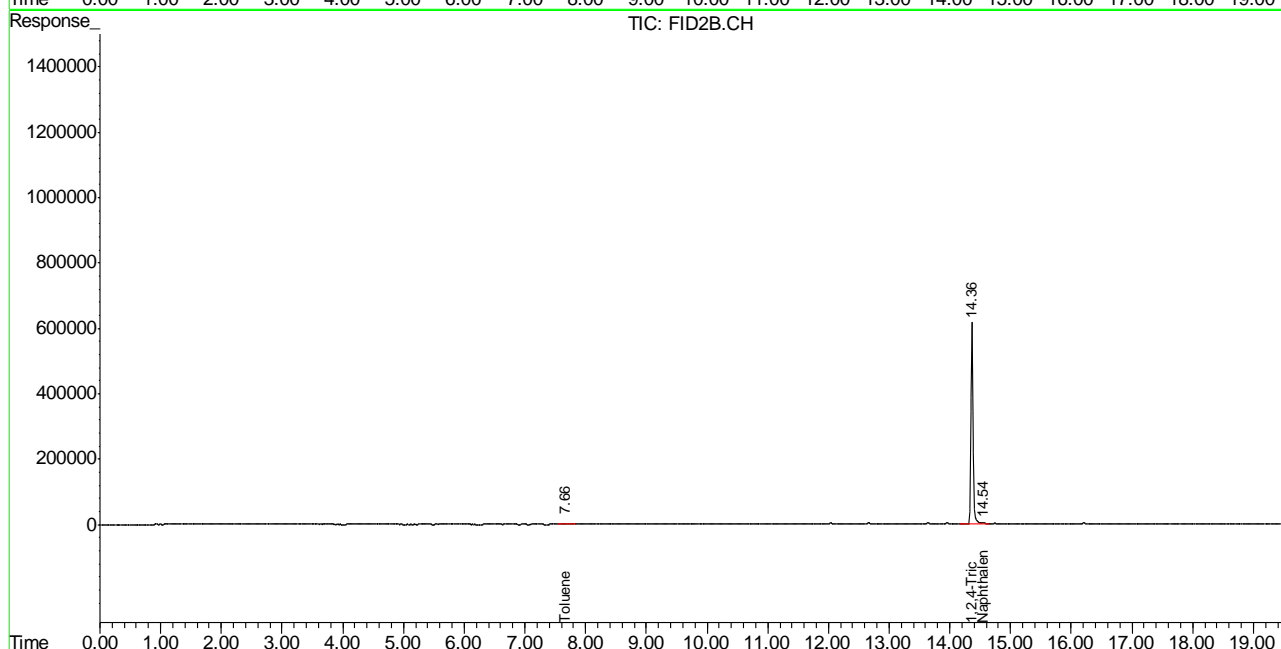
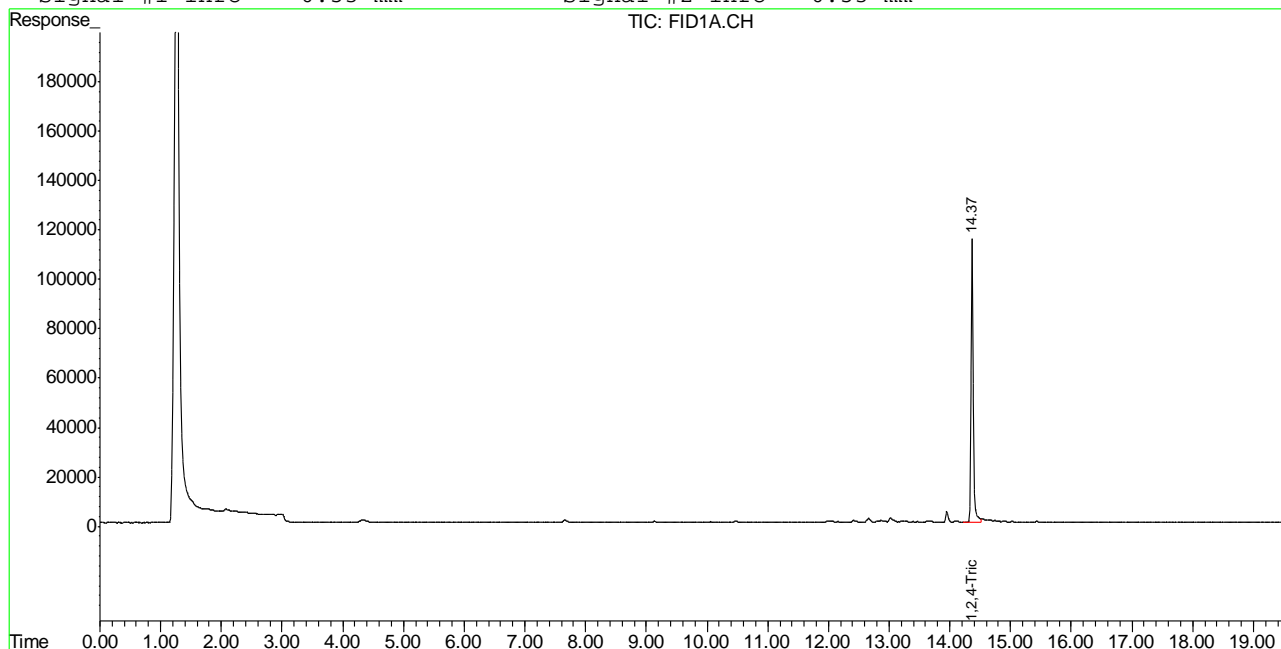
(f)=RT Delta > 1/2 Window (m)=manual int.
GB18638.D TB868GB868SOIL.M Fri Nov 30 08:28:04 2012 GC

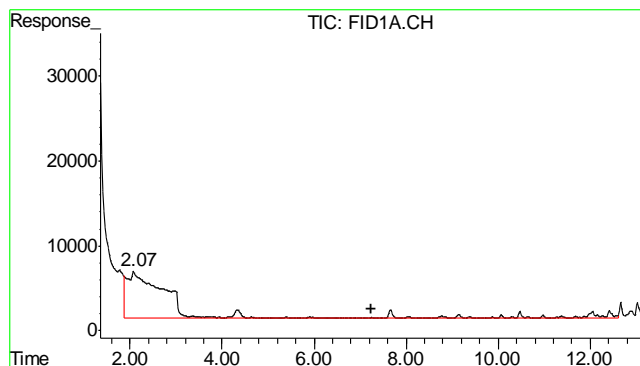
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112912\GB18638.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\112912\GB18638.D\FID2B.CH
Acq On : 29 Nov 2012 1:39 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC3260,GGB1016,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 29 18:10 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Nov 29 18:07:37 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

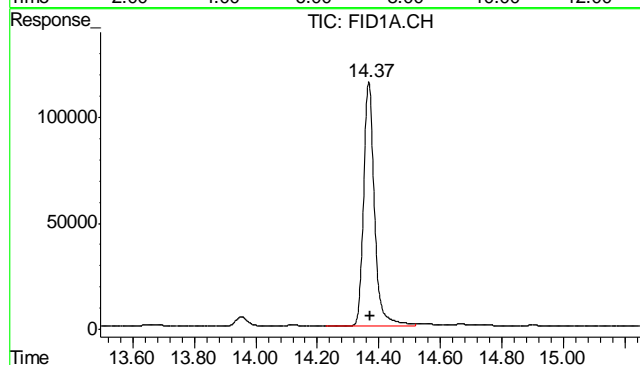
Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





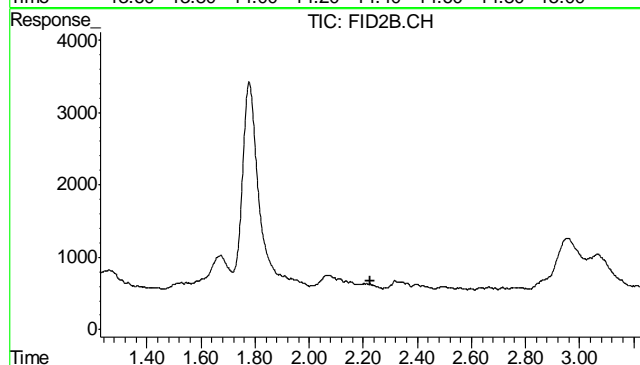
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 3713773
Conc: N.D.



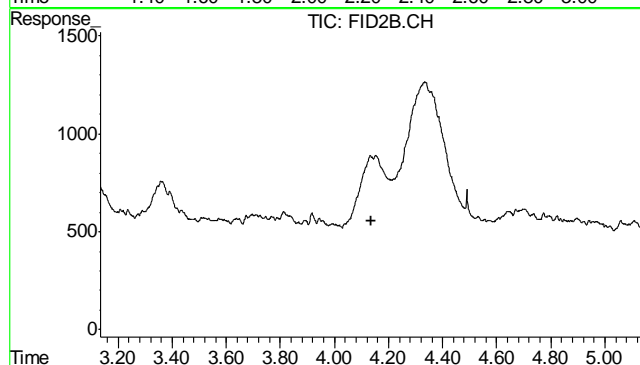
#2 1,2,4-Trichlorobenzene

R.T.: 14.367 min
Delta R.T.: -0.003 min
Response: 2827268
Conc: 90.23 %



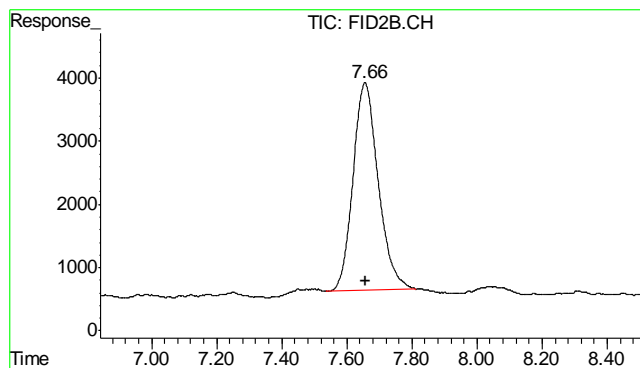
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.227 min
Response: 0
Conc: N.D.



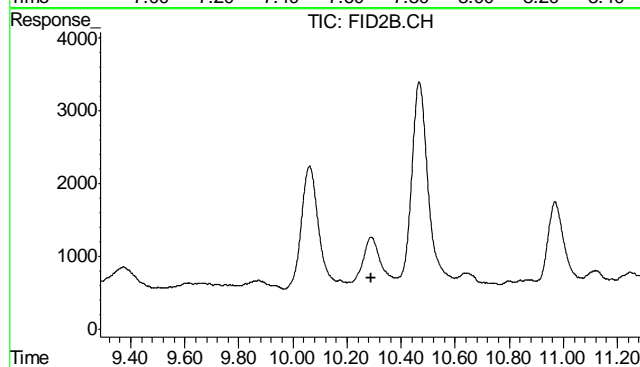
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.134 min
Response: 0
Conc: N.D.



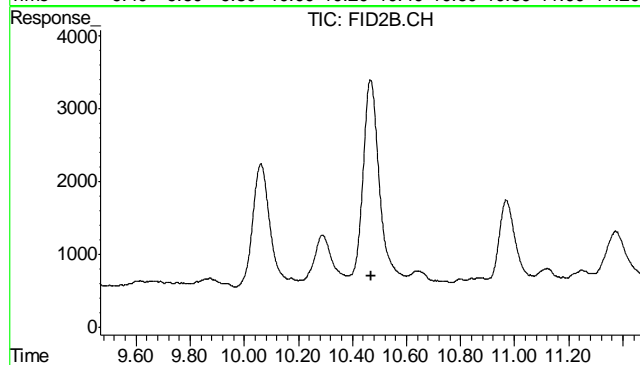
#6 Toluene

R.T.: 7.656 min
Delta R.T.: -0.001 min
Response: 177074
Conc: 0.45 ug/L



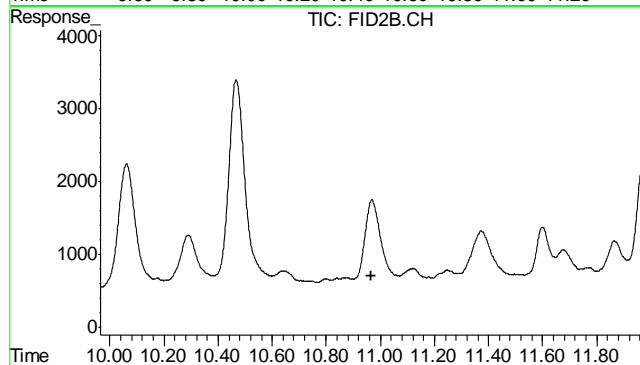
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T. : 10.288 min
Response: 0
Conc: N.D.



#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T. : 10.468 min
Response: 0
Conc: N.D.

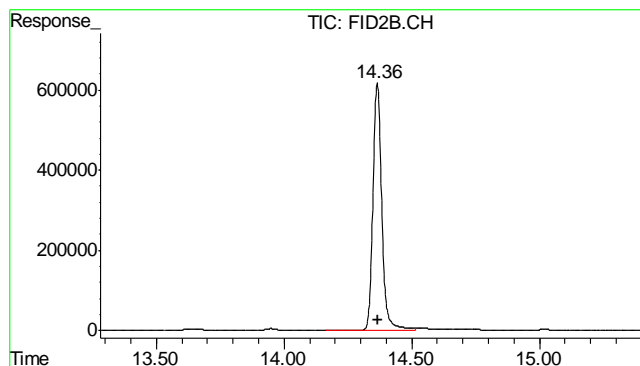


#9 o-Xylene

R.T.: 0.000 min
Exp R.T. : 10.964 min
Response: 0
Conc: N.D.

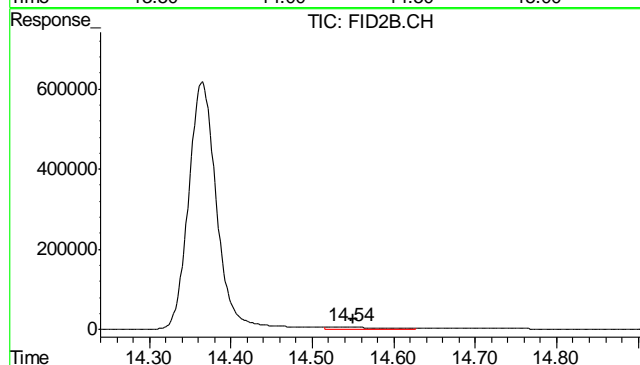
7.2.1

7



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

R.T.: 14.365 min
Delta R.T.: -0.003 min
Response: 14819830
Conc: 91.18 %



#11 Naphthalene

R.T.: 14.545 min
Delta R.T.: -0.005 min
Response: 213770
Conc: 1.08 ug/L

7.2.1

7

GC Semi-volatiles

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

Page 1 of 1

Job Number: D41047
Account: XTOKRWR XTO Energy
Project: NPU 196-19B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7032-MB	FD20087.D	1	11/30/12	AV	11/30/12	OP7032	GFD1007

The QC reported here applies to the following samples:

Method: SW846-8015B

D41047-1, D41047-2, D41047-3, D41047-4, D41047-5

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	66% 35-130%

8.1.1

8

Blank Spike Summary

Page 1 of 1

Job Number: D41047
Account: XTOKRWR XTO Energy
Project: NPU 196-19B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7032-BS	FD20089.D	1	11/30/12	AV	11/30/12	OP7032	GFD1007

The QC reported here applies to the following samples:

Method: SW846-8015B

D41047-1, D41047-2, D41047-3, D41047-4, D41047-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	603	90	48-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	86%	35-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D41047
Account: XTOKRWR XTO Energy
Project: NPU 196-19B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7032-MS	FD20093.D	1	11/30/12	AV	11/30/12	OP7032	GFD1007
OP7032-MSD	FD20095.D	1	11/30/12	AV	11/30/12	OP7032	GFD1007
D41047-2 ^a	FD20099.D	1	11/30/12	AV	11/30/12	OP7032	GFD1007

The QC reported here applies to the following samples:

Method: SW846-8015B

D41047-1, D41047-2, D41047-3, D41047-4, D41047-5

CAS No.	Compound	D41047-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	30.4		762	686	86	578	72	17	20-168/30

CAS No.	Surrogate Recoveries	MS	MSD	D41047-2	Limits
84-15-1	o-Terphenyl	79%	69%	67%	35-130%

(a) Sample extracted beyond hold time per client instruction.

* = Outside of Control Limits.

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\DEC\FD120312.SEC\FD20124.D Vial: 55
Acq On : 03 Dec 2012 12:48 pm Operator: TedR
Sample : D41047-1, 10X Inst : FID5
Misc : OP7032,GFD1010,30.11,,,1,10 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Dec 03 13:10:34 2012 Quant Results File: DRO-GFD983R.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD983R.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:04:31 2012
Response via : Initial Calibration
DataAcq Meth : DRODUAL.M

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	9.02	7383539	144.408 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	6.93	288084214	7794.795 mg/L

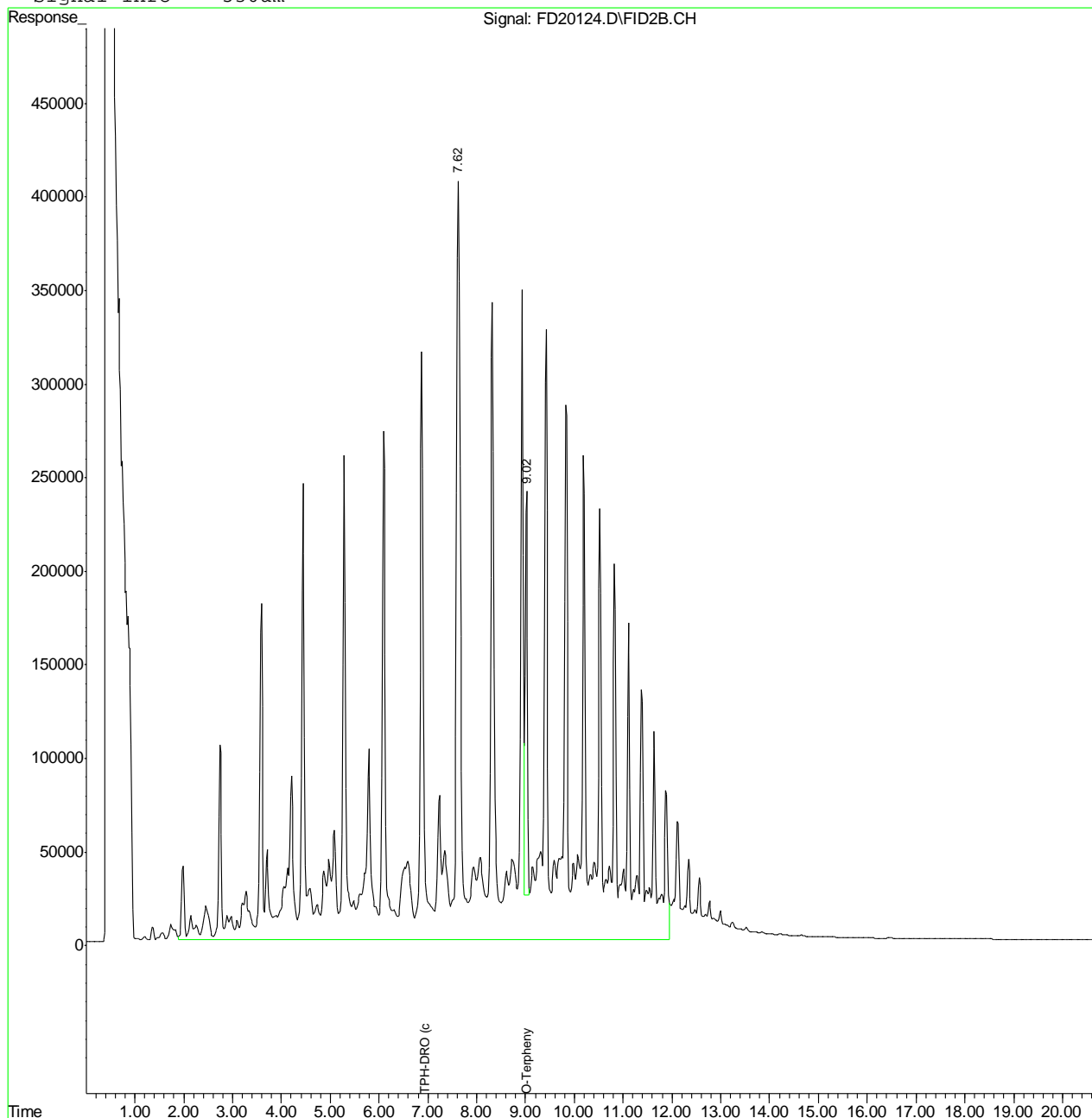
9.1.1
9

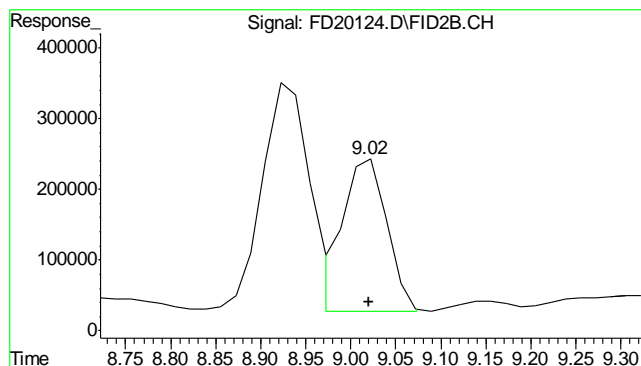
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\DEC\FD120312.SEC\FD20124.D Vial: 55
Acq On : 03 Dec 2012 12:48 pm Operator: TedR
Sample : D41047-1, 10X Inst : FID5
Misc : OP7032,GFD1010,30.11,,,1,10 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Dec 4 10:45 2012 Quant Results File: DRO-GFD983R.RES

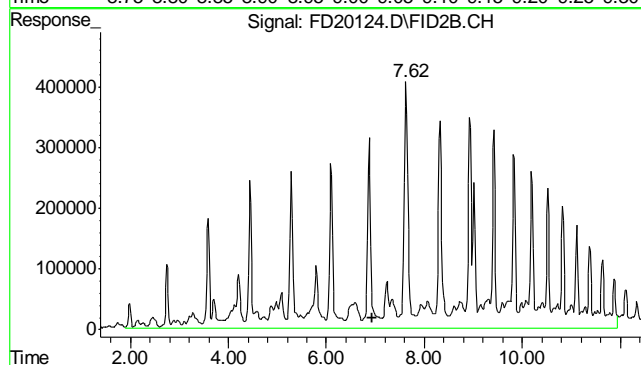
Quant Method : C:\MSDCHEM\2...\DRO-GFD983R.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:04:31 2012
Response via : Multiple Level Calibration
DataAcq Meth : DRODUAL.M

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





#1 O-Terphenyl
 R.T.: 9.016 min
 Delta R.T.: -0.004 min
 Response: 7383539
 Conc: 144.41 mg/L m



#2 TPH-DRO (c10-c28)
 R.T.: 6.935 min
 Delta R.T.: 0.000 min
 Response: 288084214
 Conc: 7794.80 mg/L m

9.1.1
9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\NOV\FD113012\FD20099.D Vial: 19
Acq On : 11-30-2012 03:55:10 PM Operator: ashleyv
Sample : D41047-2 Inst : FID5
Misc : OP7032,GFD1007,30.09,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Dec 03 08:40:32 2012 Quant Results File: DRO-GFD982F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD982F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:03:22 2012
Response via : Initial Calibration
DataAcq Meth : DRODUAL.M

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	8.93	74602833	1348.316 mg/L
Target Compounds			
2) H TPH-DRO (c10-c28)	6.89	30239114	796.276 mg/L

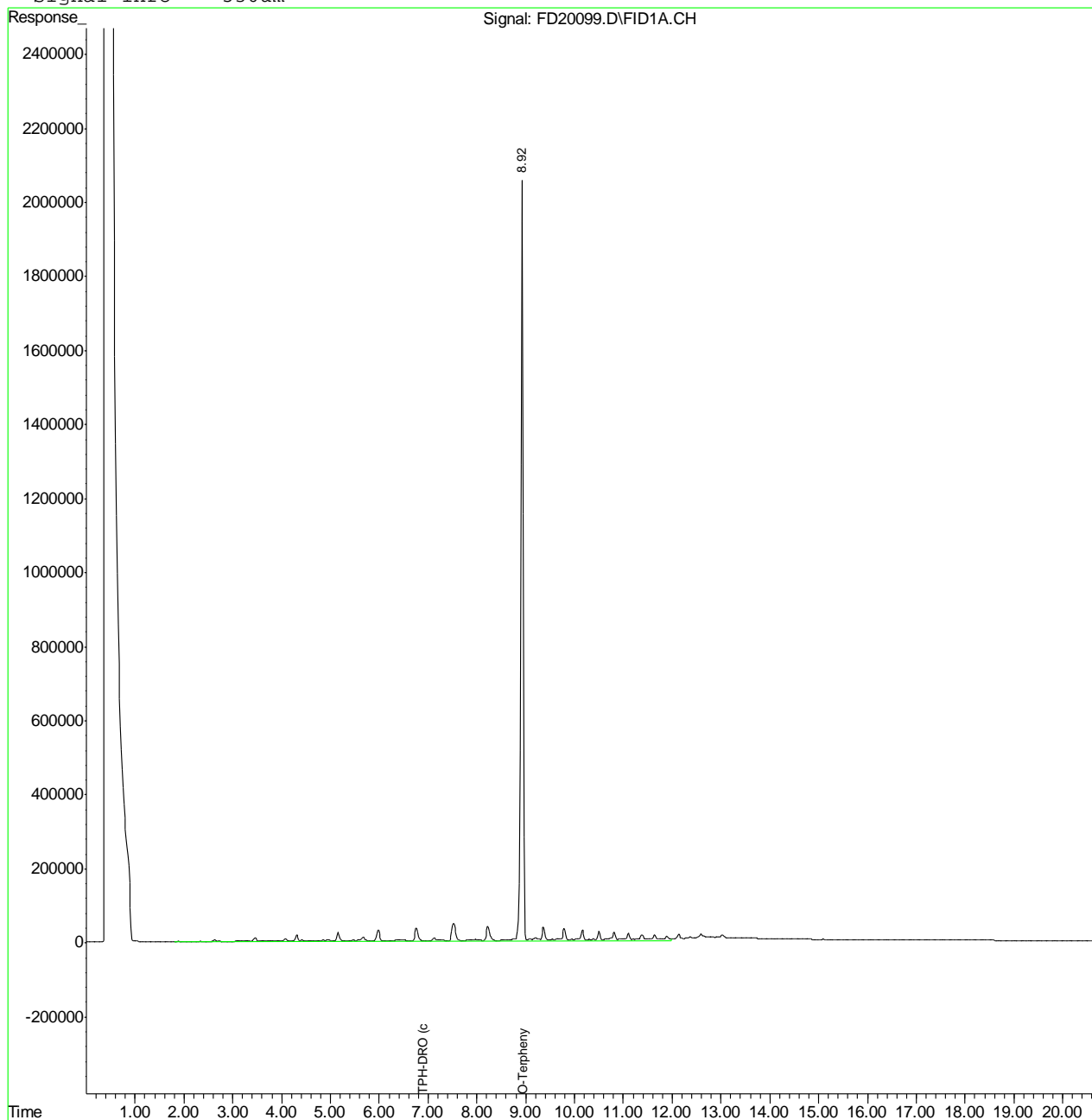
9.12
9

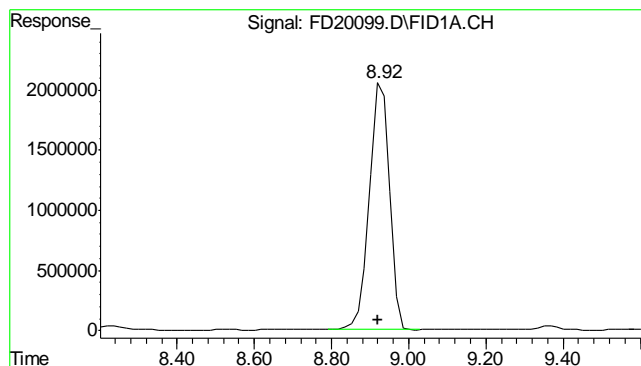
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\NOV\FD113012\FD20099.D Vial: 19
Acq On : 11-30-2012 03:55:10 PM Operator: ashleyv
Sample : D41047-2 Inst : FID5
Misc : OP7032,GFD1007,30.09,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Dec 3 8:40 2012 Quant Results File: DRO-GFD982F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD982F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:03:22 2012
Response via : Multiple Level Calibration
DataAcq Meth : DRODUAL.M

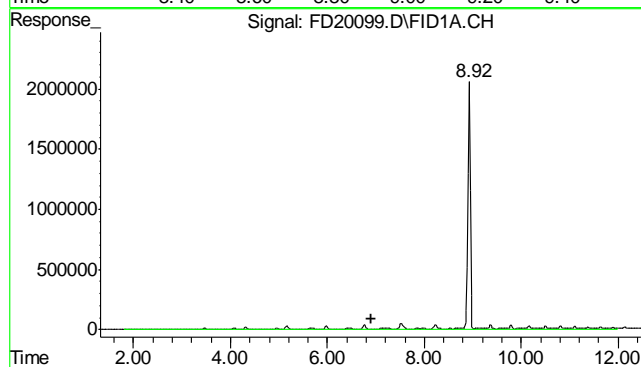
Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





#1 O-Terphenyl

R.T.: 8.932 min
 Delta R.T.: 0.012 min
 Response: 74602833
 Conc: 1348.32 mg/L



#2 TPH-DRO (c10-c28)

R.T.: 6.895 min
 Delta R.T.: 0.000 min
 Response: 30239114
 Conc: 796.28 mg/L m

9.1.2
9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\DEC\FD120312.SEC\FD20126.D Vial: 56
Acq On : 12-3-2012 01:15:40 PM Operator: TedR
Sample : D41047-3 Inst : FID5
Misc : OP7032,GFD1010,30.10,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Dec 03 14:05:01 2012 Quant Results File: DRO-GFD983R.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD983R.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:04:31 2012
Response via : Initial Calibration
DataAcq Meth : DRODUAL.M

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	9.03	73297574	1433.560 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	6.93	1476243069	39943.224 mg/L

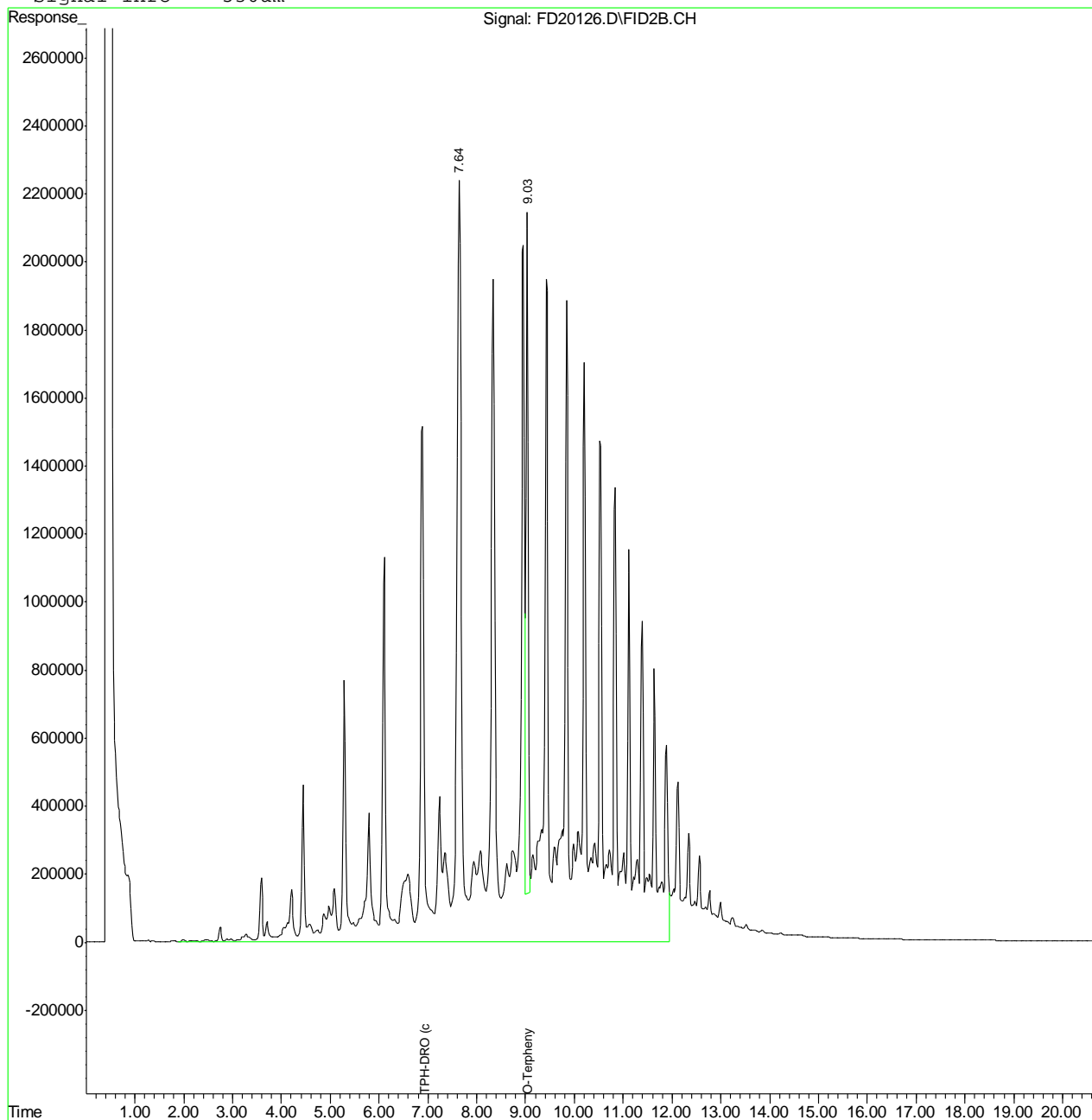
9.13
9

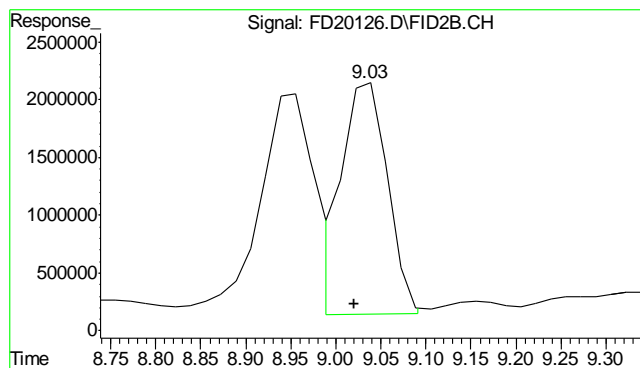
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\DEC\FD120312.SEC\FD20126.D Vial: 56
Acq On : 12-3-2012 01:15:40 PM Operator: TedR
Sample : D41047-3 Inst : FID5
Misc : OP7032,GFD1010,30.10,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Dec 3 14:06 2012 Quant Results File: DRO-GFD983R.RES

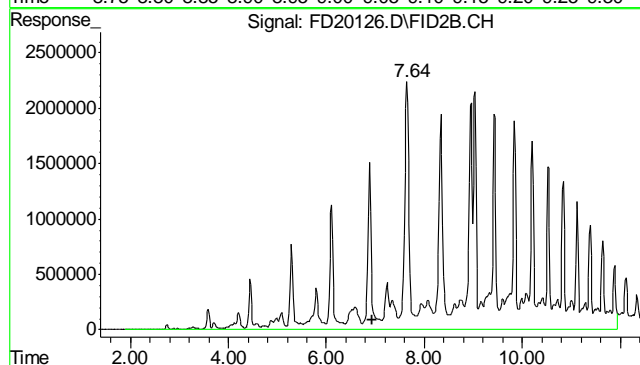
Quant Method : C:\MSDCHEM\2...\DRO-GFD983R.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:04:31 2012
Response via : Multiple Level Calibration
DataAcq Meth : DRODUAL.M

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





#1 O-Terphenyl
 R.T.: 9.031 min
 Delta R.T.: 0.011 min
 Response: 73297574
 Conc: 1433.56 mg/L m



#2 TPH-DRO (c10-c28)
 R.T.: 6.935 min
 Delta R.T.: 0.000 min
 Response: 1476243069
 Conc: 39943.22 mg/L m

9.1.3
9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\NOV\FD113012\FD20103.D Vial: 21
Acq On : 11-30-2012 04:55:36 PM Operator: ashleyv
Sample : D41047-4 Inst : FID5
Misc : OP7032,GFD1007,30.10,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Dec 03 08:42:07 2012 Quant Results File: DRO-GFD982F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD982F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:03:22 2012
Response via : Initial Calibration
DataAcq Meth : DRODUAL.M

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	8.94	76795555	1387.945 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	6.89	34866175	918.118 mg/L

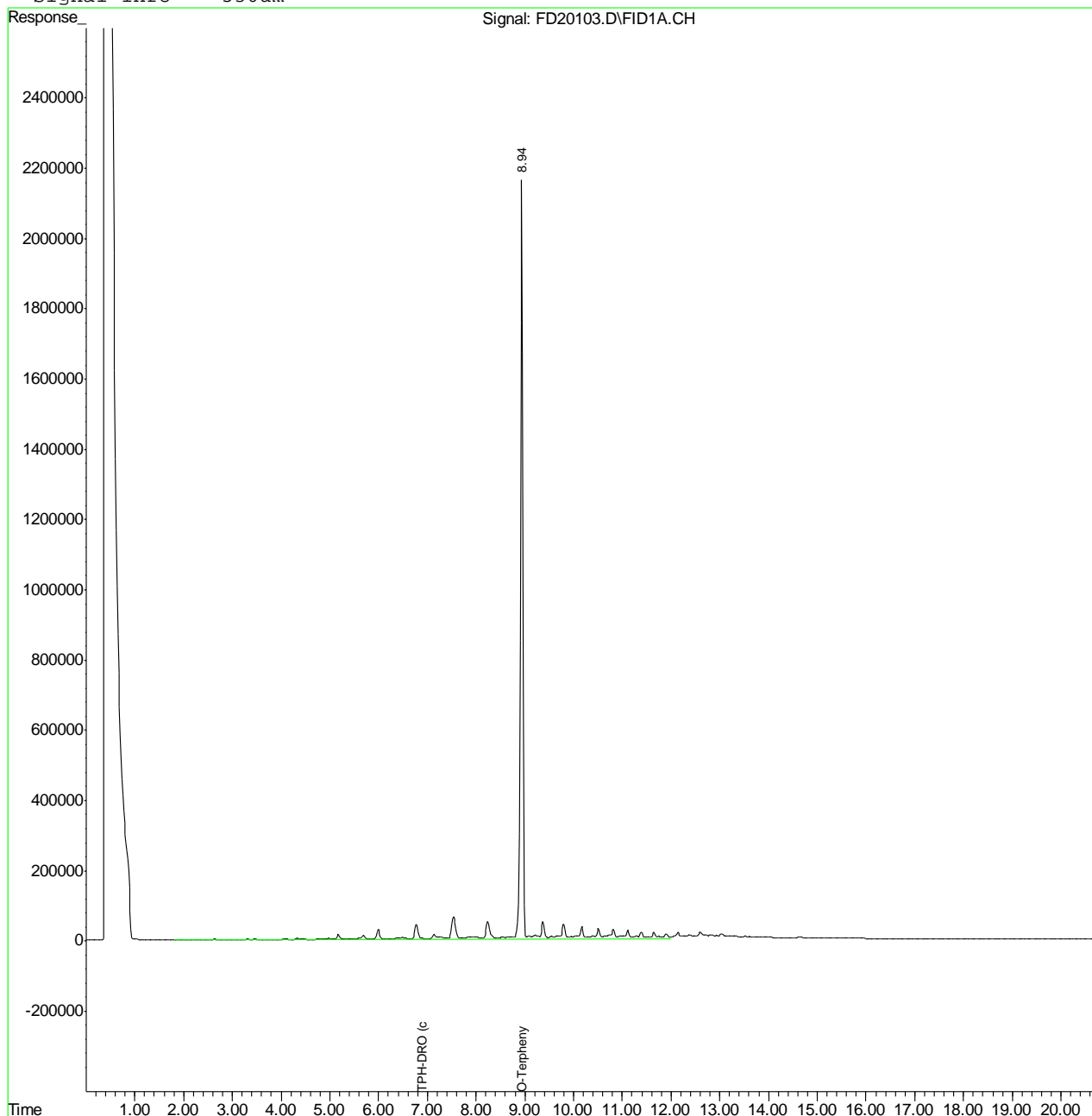
9.1.4
9

Quantitation Report (QT Reviewed)

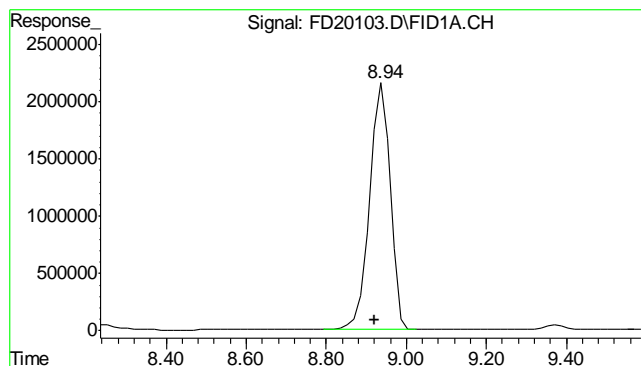
Data File : C:\MSDCHEM\2\DATA\2012\NOV\FD113012\FD20103.D Vial: 21
 Acq On : 11-30-2012 04:55:36 PM Operator: ashleyv
 Sample : D41047-4 Inst : FID5
 Misc : OP7032,GFD1007,30.10,,,1,1 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Dec 3 8:42 2012 Quant Results File: DRO-GFD982F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD982F.M (Chemstation Integrator)
 Title : 8015B TEH
 Last Update : Thu Nov 29 16:03:22 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : DRODUAL.M

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

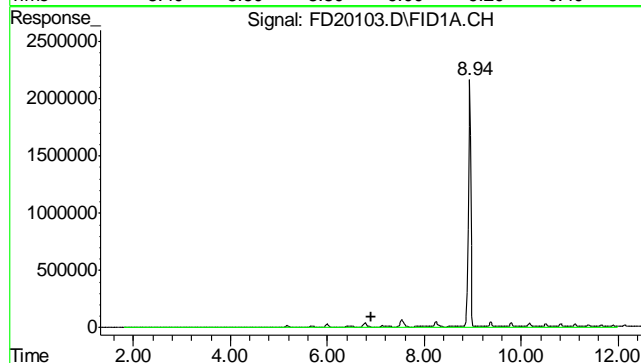


9.1.4
9



#1 O-Terphenyl

R.T.: 8.935 min
 Delta R.T.: 0.015 min
 Response: 76795555
 Conc: 1387.95 mg/L m



#2 TPH-DRO (c10-c28)

R.T.: 6.895 min
 Delta R.T.: 0.000 min
 Response: 34866175
 Conc: 918.12 mg/L m

9.1.4
9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\NOV\FD113012\FD20105.D Vial: 22
Acq On : 11-30-2012 05:22:35 PM Operator: ashleyv
Sample : D41047-5 Inst : FID5
Misc : OP7032,GFD1007,30.07,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Dec 03 08:42:43 2012 Quant Results File: DRO-GFD982F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD982F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:03:22 2012
Response via : Initial Calibration
DataAcq Meth : DRODUAL.M

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	8.92	112171226	2027.299 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	6.89	518544934	13654.657 mg/L

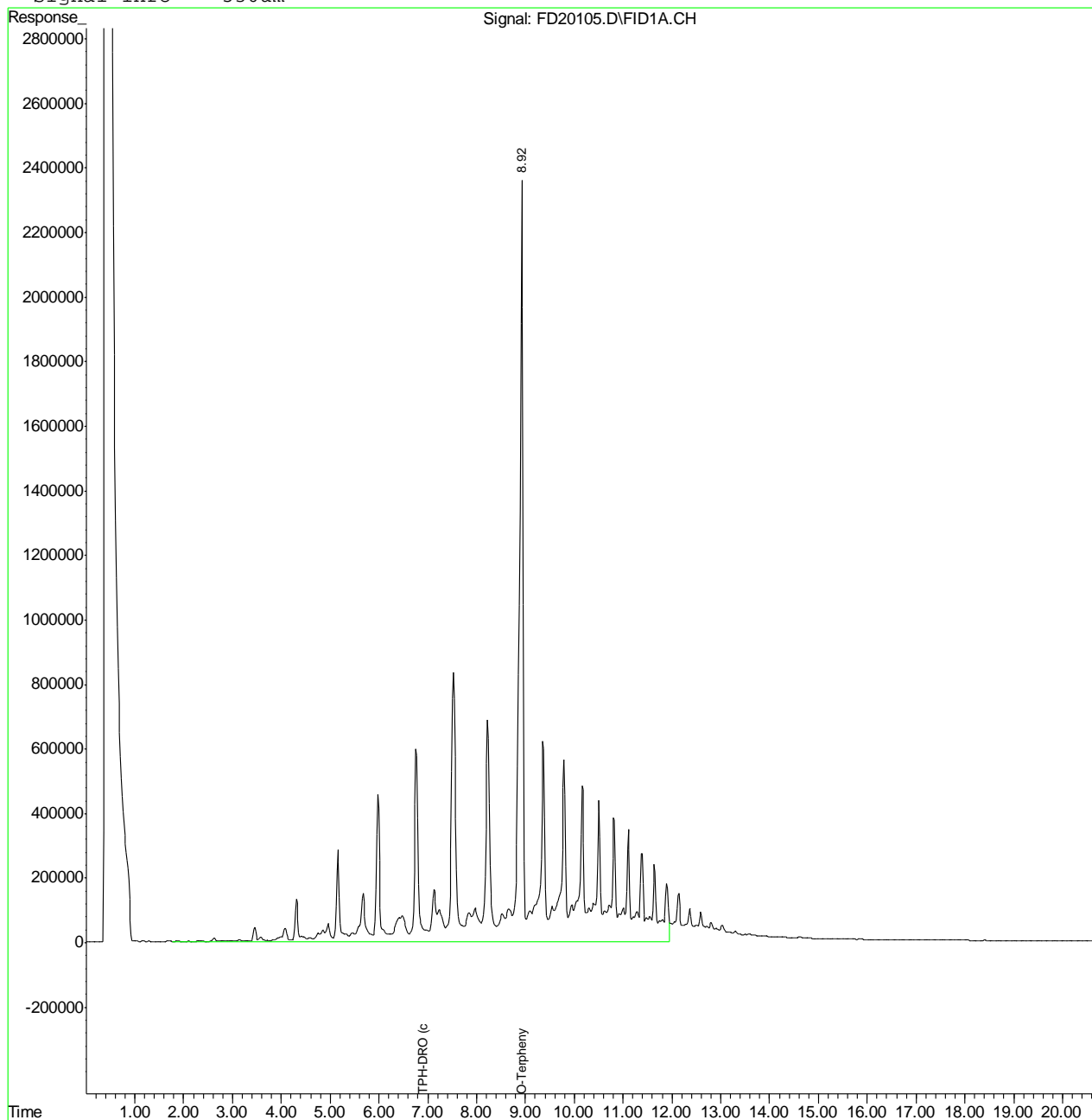
9.1.5
9

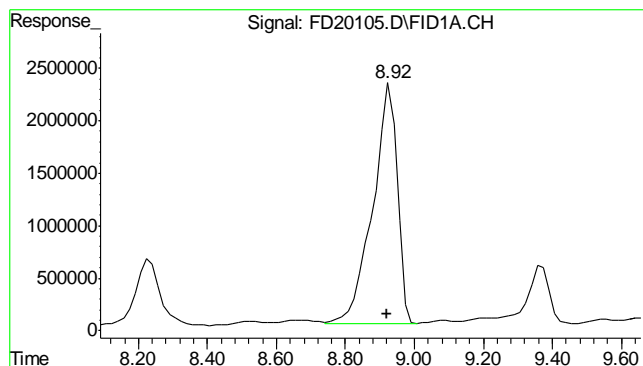
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\NOV\FD113012\FD20105.D Vial: 22
Acq On : 11-30-2012 05:22:35 PM Operator: ashleyv
Sample : D41047-5 Inst : FID5
Misc : OP7032,GFD1007,30.07,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Dec 3 11:08 2012 Quant Results File: DRO-GFD982F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD982F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:03:22 2012
Response via : Multiple Level Calibration
DataAcq Meth : DRODUAL.M

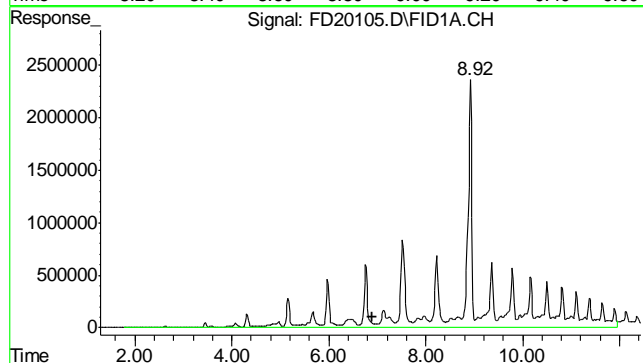
Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





#1 O-Terphenyl

R.T.: 8.924 min
 Delta R.T.: 0.004 min
 Response: 112171226
 Conc: 2027.30 mg/L m



#2 TPH-DRO (c10-c28)

R.T.: 6.895 min
 Delta R.T.: 0.000 min
 Response: 518544934
 Conc: 13654.66 mg/L m

9.1.5
9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\NOV\FD113012\FD20087.D Vial: 13
Acq On : 30 Nov 2012 12:56 pm Operator: ashleyv
Sample : OP7032-MB Inst : FID5
Misc : OP7032,GFD1007,30.00,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 30 13:55:45 2012 Quant Results File: DRO-GFD982F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD982F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:03:22 2012
Response via : Initial Calibration
DataAcq Meth : DRODUAL.M

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	8.93	72889083	1317.343 mg/L
Target Compounds			
2) H TPH-DRO (c10-c28)	6.89	1324851	34.887 mg/L

9.2.1

9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\NOV\FD113012\FD20087.D Vial: 13
Acq On : 30 Nov 2012 12:56 pm Operator: ashleyv
Sample : OP7032-MB Inst : FID5
Misc : OP7032,GFD1007,30.00,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 30 13:55 2012 Quant Results File: DRO-GFD982F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD982F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Thu Nov 29 16:03:22 2012
Response via : Multiple Level Calibration
DataAcq Meth : DRODUAL.M

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

