



11/29/11

Technical Report for

KRW Consulting, Inc.

XOM FRU 297-17A

1108-13A

Accutest Job Number: D29646

Sampling Date: 11/18/11


Report to:

KRW Consulting, Inc.
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dknudson@krwconsulting.com; jhess@krwconsulting.com;
ATTN: Dwayne Knudson

Total number of pages in report: 52



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: 303-425-6021

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

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

KRW Consulting, Inc.

Job No: D29646

XOM FRU 297-17A
Project No: 1108-13A

Sample Number	Collected		Matrix Code Type	Client Sample ID
	Date	Time By	Received	
D29646-1	11/18/11	11:10 RR	11/19/11	RESERVE PIT MIX/BLEND 11-17

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: KRW Consulting, Inc.

Job No D29646

Site: XOM FRU 297-17A

Report Dat 11/29/2011 2:30:35 PM

On 11/19/2011, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.1 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D29646 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 GCMS By Method SW846 8260B

Matrix SO	Batch ID: V3V848
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29644-1MS, D29644-1MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015B

Matrix SO	Batch ID: GGB794
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29577-1MS, D29577-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO	Batch ID: OP4885
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29644-1MS, D29644-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO	Batch ID: GN12598
------------------	--------------------------

- 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

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Client Sample ID:	RESERVE PIT MIX/BLEND 11-17	Date Sampled:	11/18/11
Lab Sample ID:	D29646-1	Date Received:	11/19/11
Matrix:	SO - Soil	Percent Solids:	80.2
Method:	SW846 8260B		
Project:	XOM FRU 297-17A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V14686.D	1	11/21/11	DC	n/a	n/a	V3V848
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.01 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	75	33	ug/kg	
108-88-3	Toluene	ND	150	75	ug/kg	
100-41-4	Ethylbenzene	ND	150	37	ug/kg	
1330-20-7	Xylene (total)	ND	300	150	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		61-130%
460-00-4	4-Bromofluorobenzene	113%		53-131%
17060-07-0	1,2-Dichloroethane-D4	107%		62-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	RESERVE PIT MIX/BLEND 11-17					Date Sampled:	11/18/11
Lab Sample ID:	D29646-1					Date Received:	11/19/11
Matrix:	SO - Soil					Percent Solids:	80.2
Method:	SW846 8015B						
Project:	XOM FRU 297-17A						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB13991.D	1	11/21/11	SK	n/a	n/a	GGB794
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)	20.0	15	7.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	103%		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:	RESERVE PIT MIX/BLEND 11-17			Date Sampled:	11/18/11
Lab Sample ID:	D29646-1			Date Received:	11/19/11
Matrix:	SO - Soil			Percent Solids:	80.2
Method:	SW846-8015B SW846 3546				
Project:	XOM FRU 297-17A				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11779.D	1	11/28/11	TR	11/21/11	OP4885	GFD599
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	675	17	11	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	71%		61-142%		

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

FED-EX Tracking #		Bottle Order Control #	
Accutest Quote #		Accutest Job # D29646	
Client / Reporting Information		Project Information	
Company Name KRW Consulting Inc		Project Name XOM FRU 297-17A	
Street Address 8000 W. 14th Ave Ste 200		Billing Information (if different from Report to)	
City Lakewood CO		Company Name	
State CO		Street Address	
Zip 80214		City	
Project Contact Dwayne Knudson		State	
E-mail		Zip	
Phone # 970 675 4066		Client PO#	
Fax #		Attention:	
Sampler(s) Name(s) Ron Kenic		Project Manager Joe Hall	
Phone # 970 756 2093		PO#	
Field ID / Point of Collection RESERVE Pit Mix/BLEND 11-17		MEOH/DI Viol #	
Date 11-18-11		Time 1110	
Sampled by RR		Matrix SO	
# of bottles 5		Number of preserved Bottles	
HCl		HNO3	
H2SO4		H2O2	
DI Water		MEOH	
ENCORE		Bottle(s)	
X		5	
LAB USE ONLY		01	
<p>Turnaround Time (Business days)</p> <p><input type="checkbox"/> Std. 10 Business Days</p> <p><input type="checkbox"/> Std. 5 Business Days (By Contract only)</p> <p><input type="checkbox"/> 5 Day RW SH</p> <p><input type="checkbox"/> 3 Day EMERGENCY</p> <p><input checked="" type="checkbox"/> 2 Day EMERGENCY</p> <p><input type="checkbox"/> 1 Day EMERGENCY</p> <p>Emergency & Rush T/A data available VIA Lablink</p>			
<p>Approved By (Accutest PM): / Date:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>			
<p>Commercial "A" (Level 1) <input type="checkbox"/> State Forms <input type="checkbox"/></p> <p>Commercial "B" (Level 2) <input type="checkbox"/> EDD Format <input type="checkbox"/></p> <p>Commercial "B" - Narrative <input type="checkbox"/> PDF <input checked="" type="checkbox"/></p> <p>FULLT1 (Level 3+4) <input type="checkbox"/></p> <p>Commercial "A" = Results Only</p> <p>Commercial "B" = Results + QC Summary</p>			
<p>Comments / Special Instructions</p> <p>Please email results to KRW Picance</p> <p>Cr XOM Team</p> <p>-Run TPH & BTEX, hold other</p> <p>analytes pending results</p>			
<p>Sample Custody must be documented below each time samples change possession, including courier delivery.</p>			
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
1 Ron Kenic	11/18/11 1425	1 Joe Hall	11/18/11
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
3 Dwayne Knudson		3 Dwayne Knudson	11/19 9:00
Relinquished by:	Date Time:	Received By:	Date Time:
5		5	
Custody Seal # FedEx		Preserved where applicable	
<input checked="" type="checkbox"/> Intact		<input type="checkbox"/> Not Intact	
On Ice <input checked="" type="checkbox"/>		Cooler Temp. 2.1	

D29646: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D29646

Client: KRW CONSULTING INC.

Immediate Client Services Action Required: No

Date / Time Received: 11/19/2011 9:00:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project: XOM FRU 297-17A

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

GC/MS 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: D29646**Account:** KRWCCOL KRW Consulting, Inc.**Project:** XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V848-MB	3V14680.D	1	11/21/11	DC	n/a	n/a	V3V848

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

D29646-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	22	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	200	100	ug/kg	

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	105% 61-130%
460-00-4	4-Bromofluorobenzene	102% 53-131%
17060-07-0	1,2-Dichloroethane-D4	107% 62-130%

Blank Spike Summary

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Job Number: D29646

Account: KRWCCOL KRW Consulting, Inc.

Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V848-BS	3V14681.D	1	11/21/11	DC	n/a	n/a	V3V848

The QC reported here applies to the following samples:

Method: SW846 8260B

D29646-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	58.1	116	70-130
100-41-4	Ethylbenzene	50	56.3	113	70-130
108-88-3	Toluene	50	53.7	107	70-130
1330-20-7	Xylene (total)	150	169	113	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	103%	61-130%
460-00-4	4-Bromofluorobenzene	114%	53-131%
17060-07-0	1,2-Dichloroethane-D4	110%	62-130%

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: D29646

Account: KRWCCOL KRW Consulting, Inc.

Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29644-1MS	3V14683.D	1	11/21/11	DC	n/a	n/a	V3V848
D29644-1MSD	3V14684.D	1	11/21/11	DC	n/a	n/a	V3V848
D29644-1	3V14682.D	1	11/21/11	DC	n/a	n/a	V3V848

The QC reported here applies to the following samples:

Method: SW846 8260B

D29646-1

CAS No.	Compound	D29644-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		3480	3810	110	3990	115	5	70-134/30
100-41-4	Ethylbenzene	ND		3480	3660	105	3900	112	6	70-137/30
108-88-3	Toluene	ND		3480	3460	99	3710	107	7	70-130/30
1330-20-7	Xylene (total)	ND		10400	11000	105	11600	111	5	61-131/30

CAS No.	Surrogate Recoveries	MS	MSD	D29644-1	Limits
2037-26-5	Toluene-D8	100%	101%	101%	61-130%
460-00-4	4-Bromofluorobenzene	113%	116%	109%	53-131%
17060-07-0	1,2-Dichloroethane-D4	108%	100%	111%	62-130%

GC/MS Volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V3112111.S\
Data File : 3V14686.D
Acq On : 21 Nov 2011 5:20 pm
Operator : DONC
Sample : D29646-1, 50x
Misc : MS2987,V3V848,5.007,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 22 08:28:28 2011
Quant Method : C:\msdchem\1\METHODS\V3AP830TVH830.M
Quant Title : 8260
QLast Update : Mon Nov 07 14:42:41 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.889	168	353672	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.682	114	584723	50.00	ug/l	0.00
53) Chlorobenzene-d5	15.316	117	556365	50.00	ug/l	0.00
74) 1,4-Dichlorobenzene-d4	17.309	152	311828	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	12.278	102	50010	53.53	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.06%
61) Toluene-d8	14.071	98	833889	50.25	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.50%
69) 4-Bromofluorobenzene	16.266	95	304624	56.41	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	112.82%

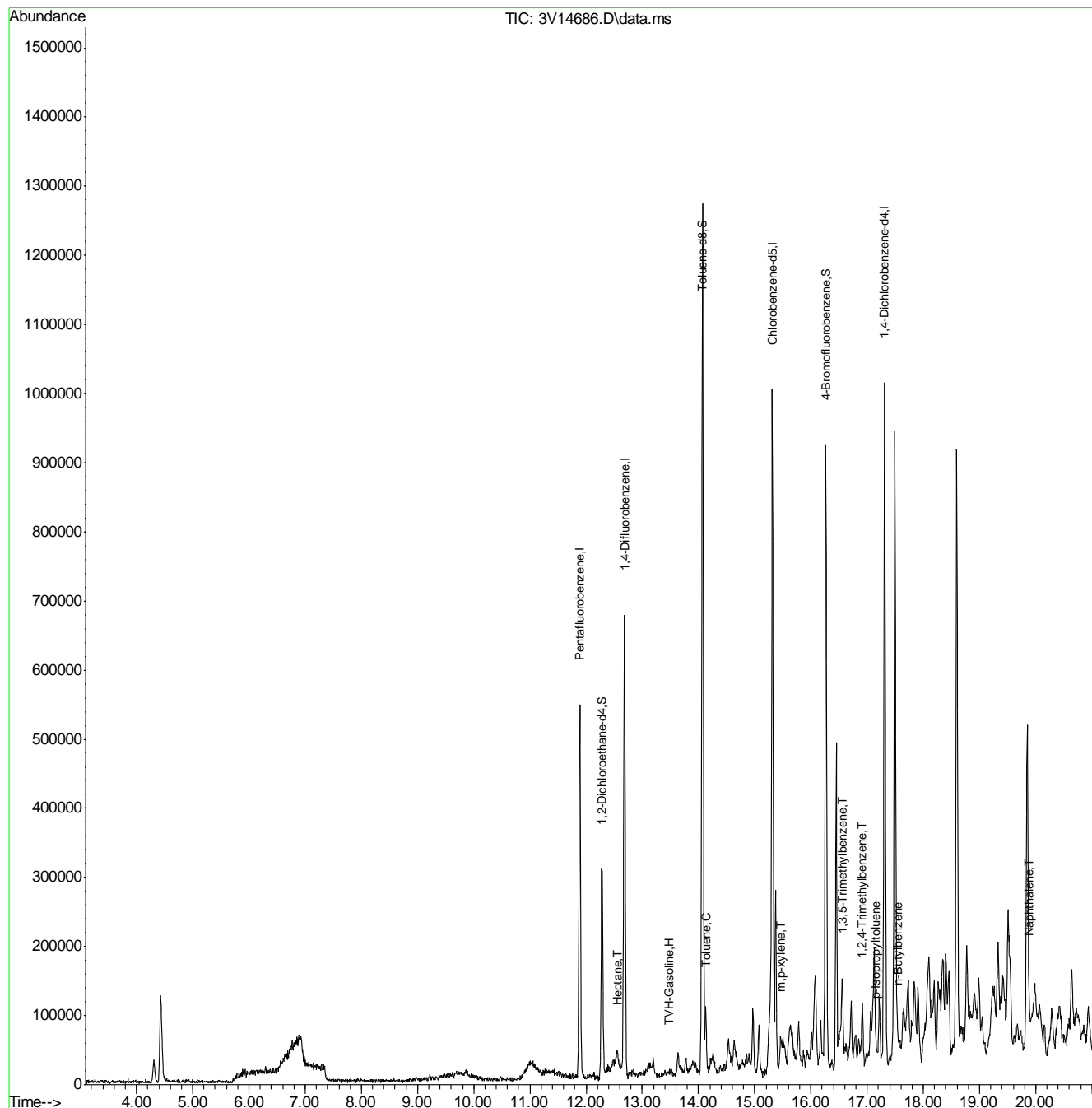
Target Compounds						Qvalue
1) TVH-Gasoline	13.491	TIC	5345011m	313.62	ug/l	
43) Heptane	12.550	43	6463	1.16	ug/l	90
62) Toluene	14.139	92	8436	0.75	ug/l	99
72) m,p-xylene	15.467	106	13585	1.63	ug/l	99
80) 1,3,5-Trimethylbenzene	16.558	105	39672	2.40	ug/l	94
82) 1,2,4-Trimethylbenzene	16.911	105	37549	1.99	ug/l	86
86) p-Isopropyltoluene	17.168	119	6040	0.28	ug/l	97
88) n-Butylbenzene	17.553	91	6115	0.33	ug/l	90
91) Naphthalene	19.886	128	44747	2.60	ug/l	100

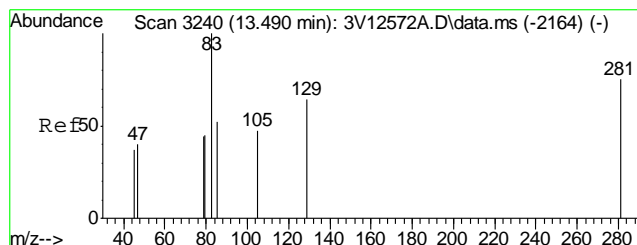
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V3112111.S\
 Data File : 3V14686.D
 Acq On : 21 Nov 2011 5:20 pm
 Operator : DONC
 Sample : D29646-1, 50x
 Misc : MS2987,V3V848,5.007,,100,5,1
 ALS Vial : 9 Sample Multiplier: 1

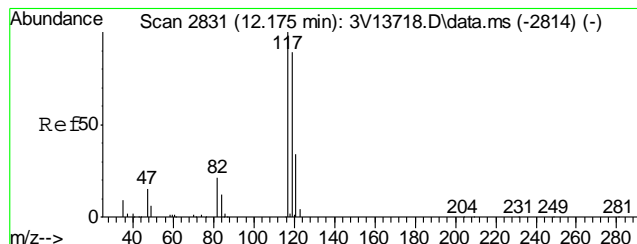
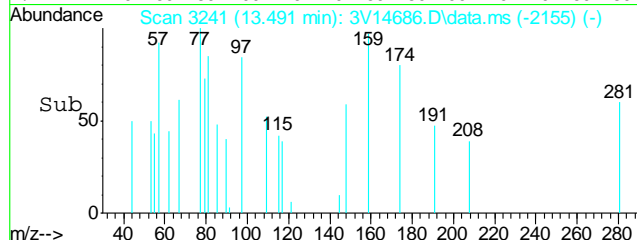
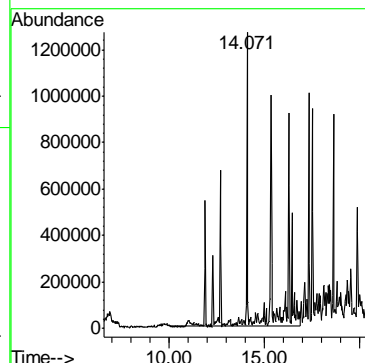
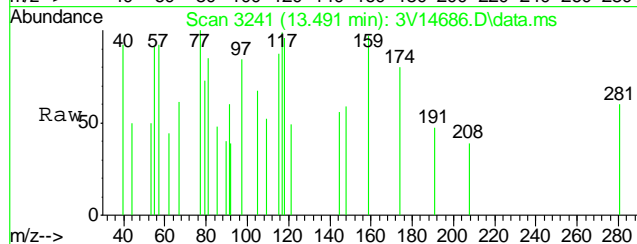
Quant Time: Nov 22 08:28:28 2011
 Quant Method : C:\msdchem\1\METHODS\V3AP830TVH830.M
 Quant Title : 8260
 QLast Update : Mon Nov 07 14:42:41 2011
 Response via : Initial Calibration





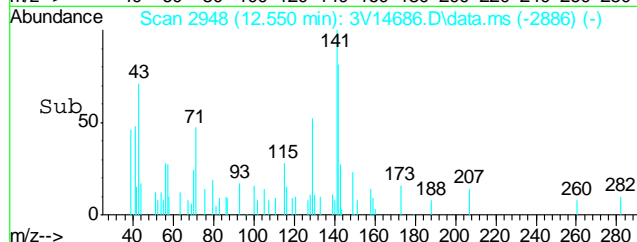
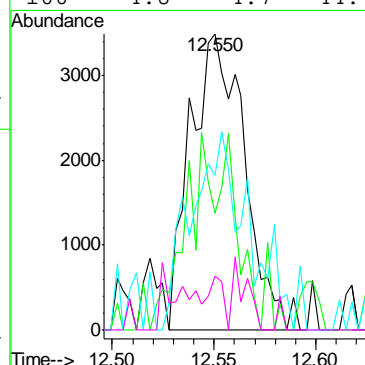
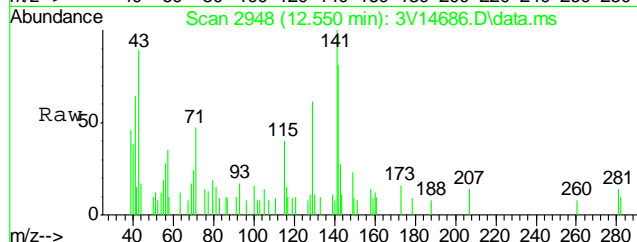
#1
TVH-Gasoline
Concen: 313.62 ug/l m
RT: 13.491 min Scan# 3241
Delta R.T. 0.000 min
Lab File: 3V14686.D
Acq: 21 Nov 2011 5:20 pm

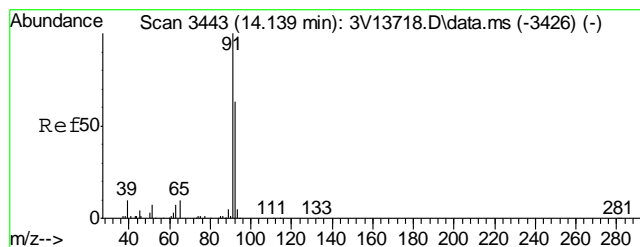
Tgt Ion:TIC Resp: 5345011



#43
Heptane
Concen: 1.16 ug/l
RT: 12.550 min Scan# 2948
Delta R.T. 0.000 min
Lab File: 3V14686.D
Acq: 21 Nov 2011 5:20 pm

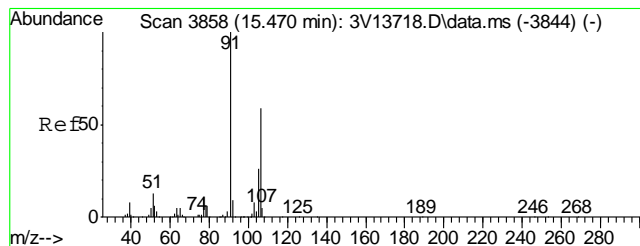
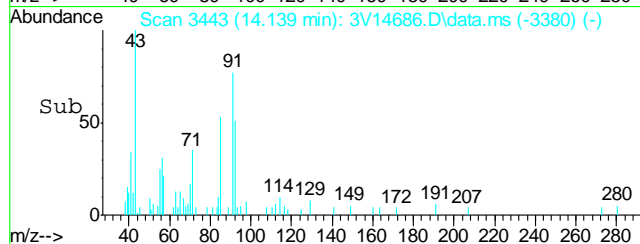
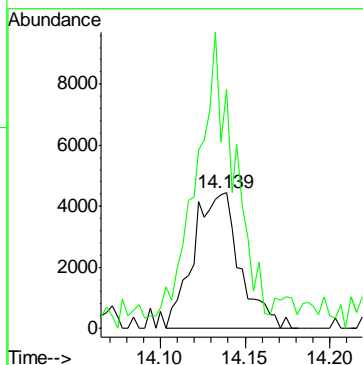
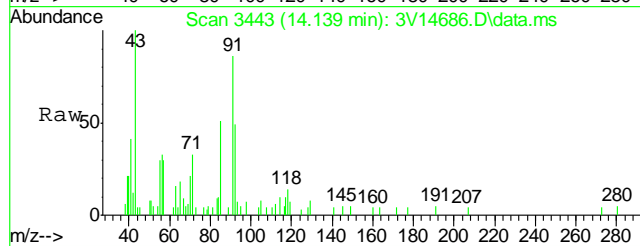
Tgt Ion: 43 Resp: 6463
Ion Ratio Lower Upper
43 100
57 55.9 33.4 73.4
71 69.8 46.9 86.9
100 4.8 4.7 44.7





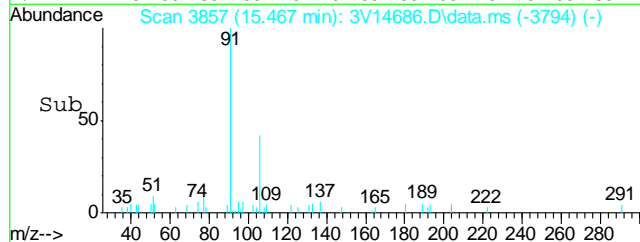
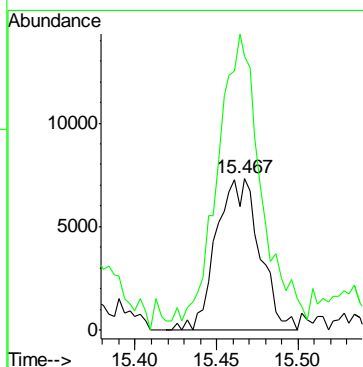
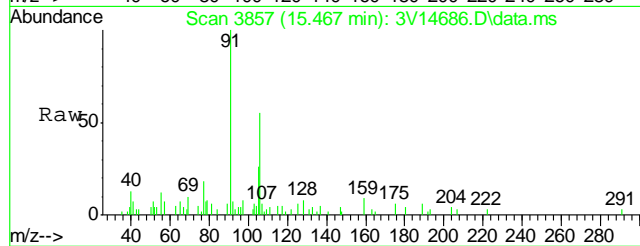
#62
Toluene
Concen: 0.75 ug/l
RT: 14.139 min Scan# 3443
Delta R.T. 0.004 min
Lab File: 3V14686.D
Acq: 21 Nov 2011 5:20 pm

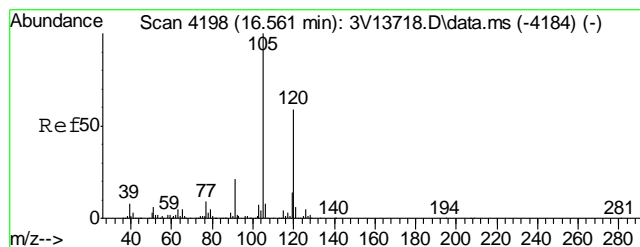
Tgt Ion: 92 Resp: 8436
Ion Ratio Lower Upper
92 100
91 175.4 156.8 196.8



#72
m,p-xylene
Concen: 1.63 ug/l
RT: 15.467 min Scan# 3857
Delta R.T. 0.001 min
Lab File: 3V14686.D
Acq: 21 Nov 2011 5:20 pm

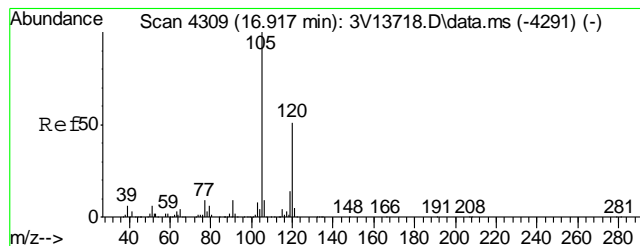
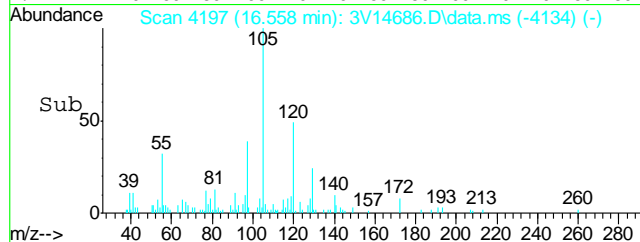
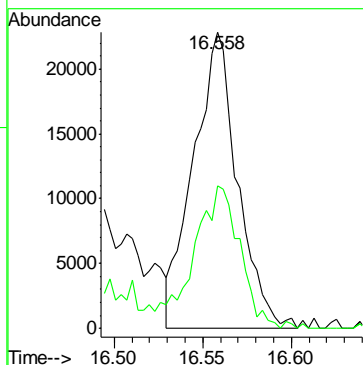
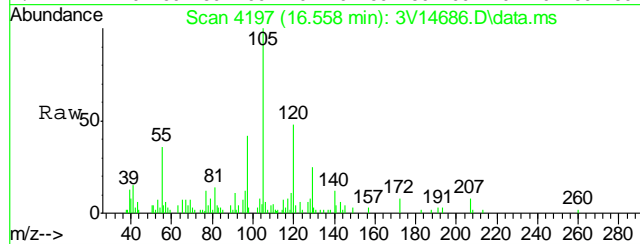
Tgt Ion: 106 Resp: 13585
Ion Ratio Lower Upper
106 100
91 186.1 164.7 204.7





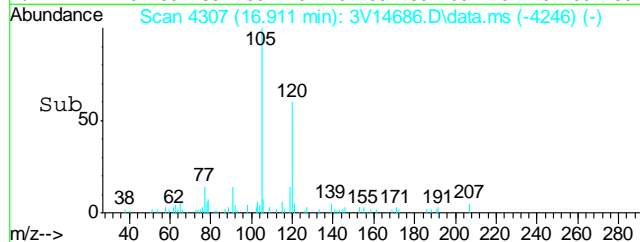
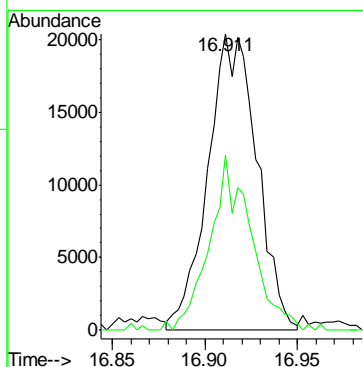
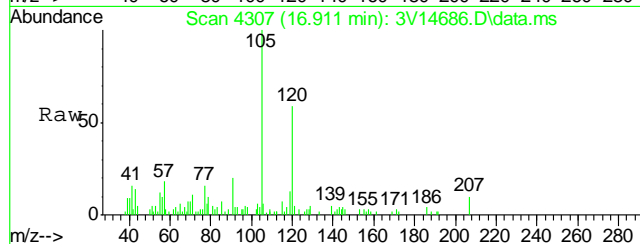
#80
1,3,5-Trimethylbenzene
Concen: 2.40 ug/l
RT: 16.558 min Scan# 4197
Delta R.T. 0.001 min
Lab File: 3V14686.D
Acq: 21 Nov 2011 5:20 pm

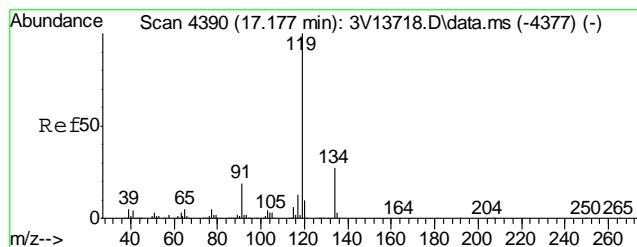
Tgt Ion:	105	Resp:	39672
Ion Ratio	Lower	Upper	
105	100		
120	50.2	43.8	65.8



#82
1,2,4-Trimethylbenzene
Concen: 1.99 ug/l
RT: 16.911 min Scan# 4307
Delta R.T. -0.003 min
Lab File: 3V14686.D
Acq: 21 Nov 2011 5:20 pm

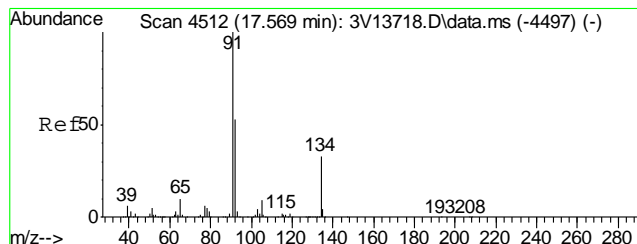
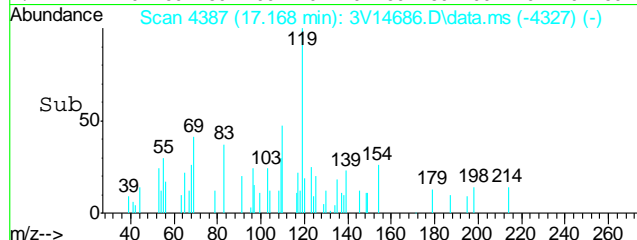
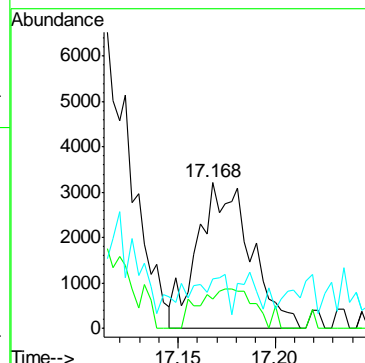
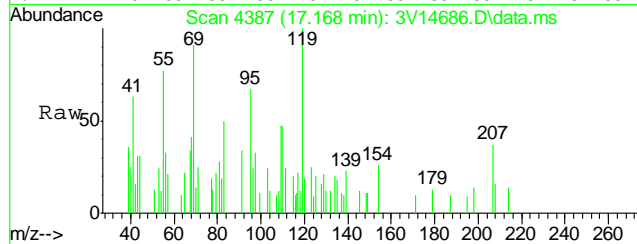
Tgt Ion:	105	Resp:	37549
Ion Ratio	Lower	Upper	
105	100		
120	49.5	47.8	71.6





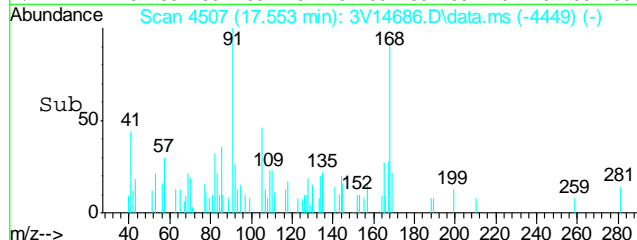
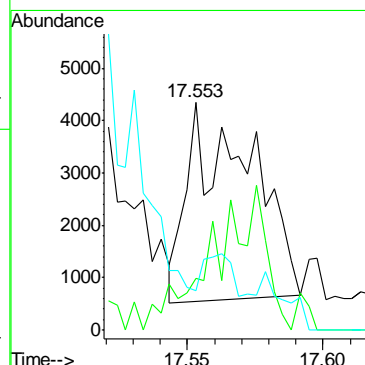
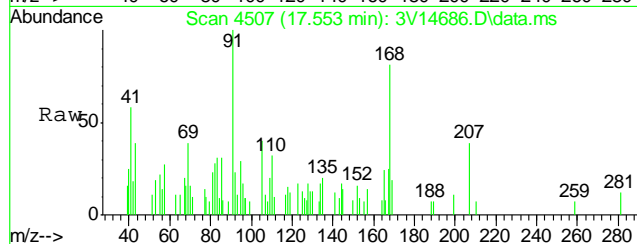
#86
p-Isopropyltoluene
Concen: 0.28 ug/l
RT: 17.168 min Scan# 4387
Delta R.T. -0.006 min
Lab File: 3V14686.D
Acq: 21 Nov 2011 5:20 pm

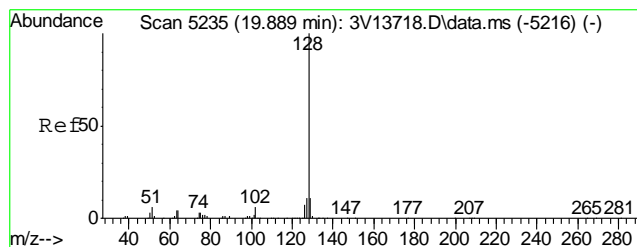
Tgt Ion:	119	Resp:	6040
Ion Ratio	Lower	Upper	
119	100		
134	27.6	23.4	35.0
91	19.4	16.3	24.5



#88
n-Butylbenzene
Concen: 0.33 ug/l
RT: 17.553 min Scan# 4507
Delta R.T. -0.013 min
Lab File: 3V14686.D
Acq: 21 Nov 2011 5:20 pm

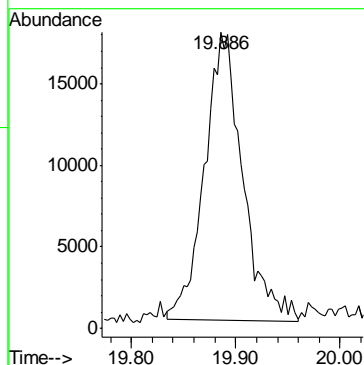
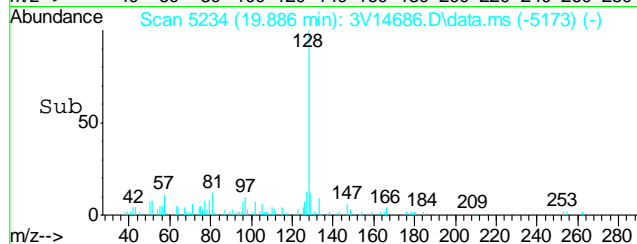
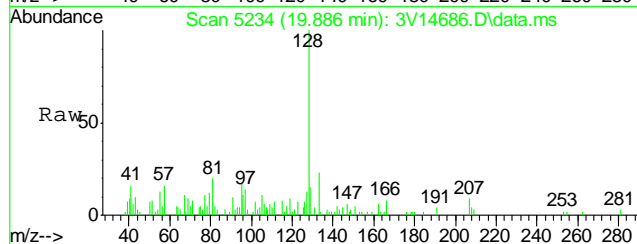
Tgt Ion:	91	Resp:	6115
Ion Ratio	Lower	Upper	
91	100		
92	60.7	41.5	62.3
134	34.6	25.4	38.0





#91
Naphthalene
Concen: 2.60 ug/l
RT: 19.886 min Scan# 5234
Delta R.T. -0.003 min
Lab File: 3V14686.D
Acq: 21 Nov 2011 5:20 pm

Tgt Ion: 128 Resp: 44747



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V3112111.S\
Data File : 3V14680.D
Acq On : 21 Nov 2011 2:11 pm
Operator : DONC
Sample : MB, MEB112111
Misc : MS2987,V3V848,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 22 08:19:59 2011
Quant Method : C:\msdchem\1\METHODS\V3AP830TVH830.M
Quant Title : 8260
QLast Update : Mon Nov 07 14:42:41 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.887	168	289638	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.683	114	495822	50.00	ug/l	0.00
53) Chlorobenzene-d5	15.314	117	436642	50.00	ug/l	0.00
74) 1,4-Dichlorobenzene-d4	17.307	152	228943	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	12.282	102	41028	53.62	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.24%
61) Toluene-d8	14.072	98	686411	52.70	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.40%
69) 4-Bromofluorobenzene	16.264	95	216209	51.01	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.02%

Target Compounds

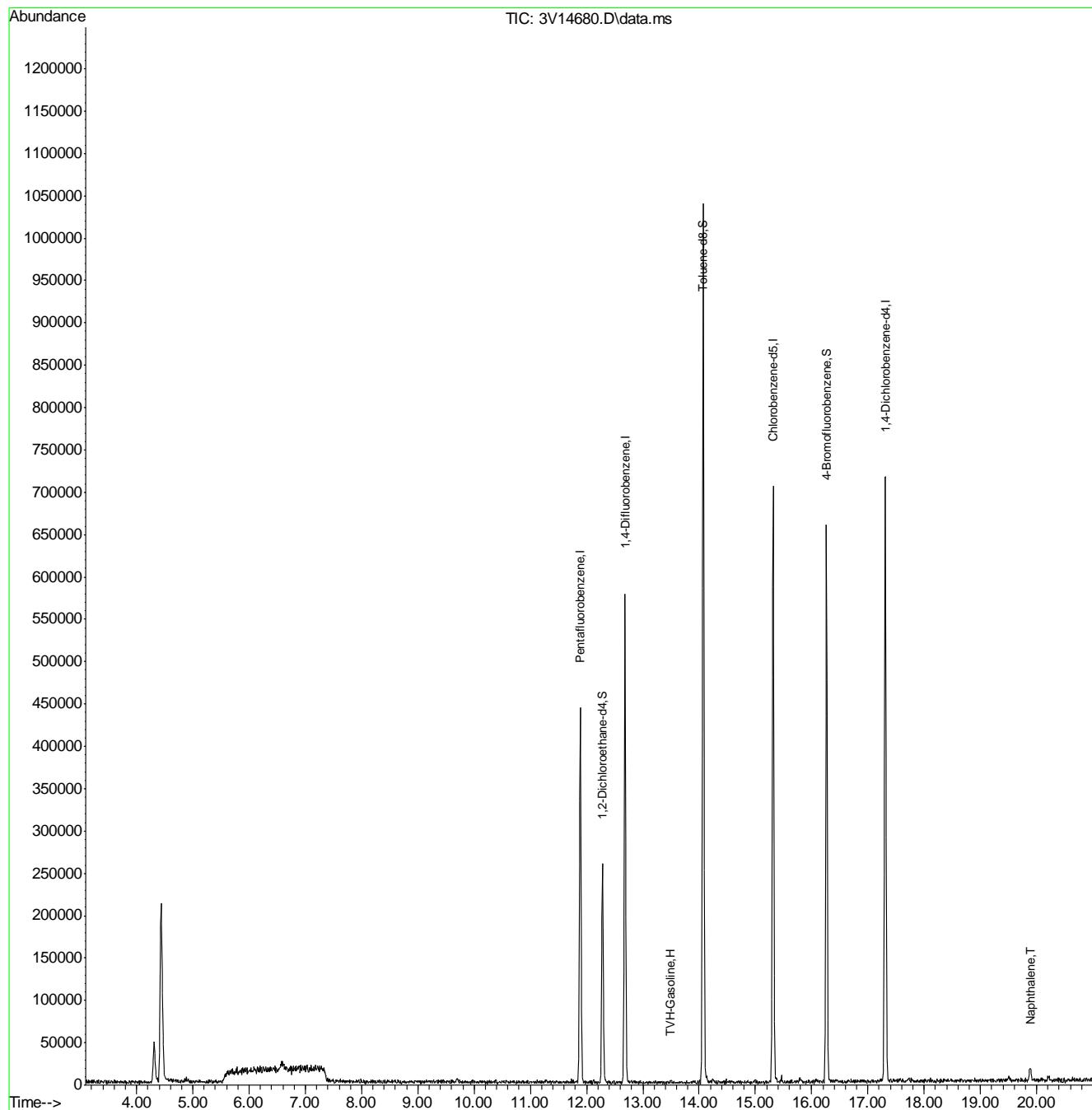
					Qvalue
1) TVH-Gasoline	13.491	TIC	174727m	22.29	ug/l
91) Naphthalene	19.893	128	18848	1.49	ug/l

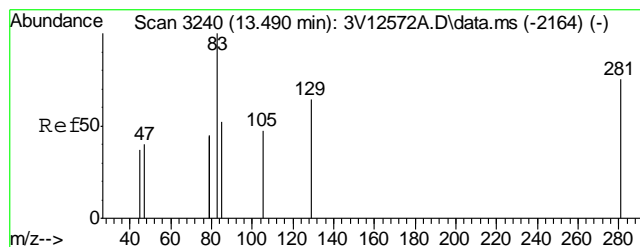
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V3112111.S\
Data File : 3V14680.D
Acq On : 21 Nov 2011 2:11 pm
Operator : DONC
Sample : MB, MEB112111
Misc : MS2987,V3V848,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

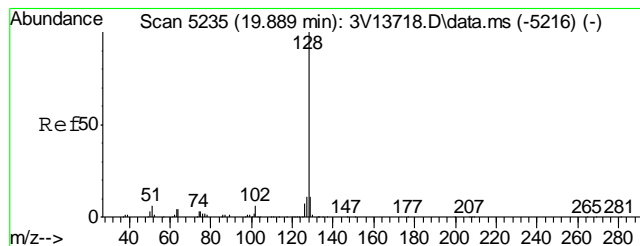
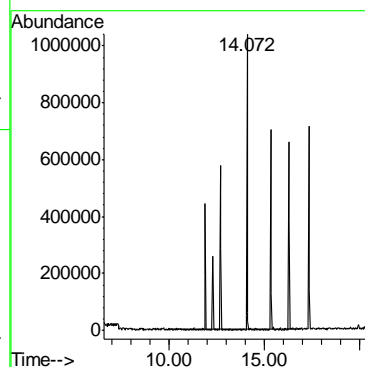
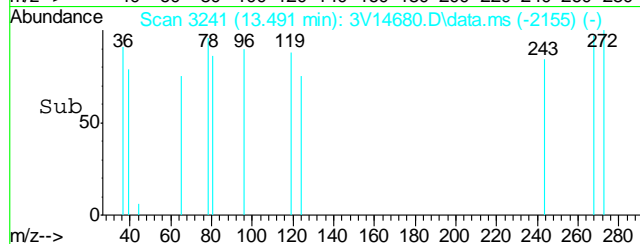
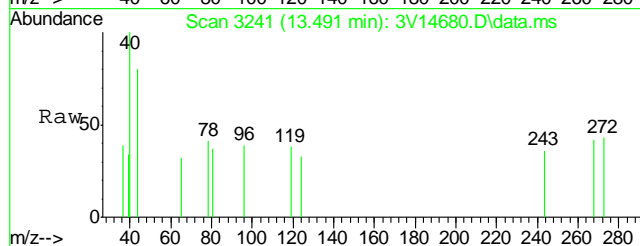
Quant Time: Nov 22 08:19:59 2011
Quant Method : C:\msdchem\1\METHODS\V3AP830TVH830.M
Quant Title : 8260
QLast Update : Mon Nov 07 14:42:41 2011
Response via : Initial Calibration





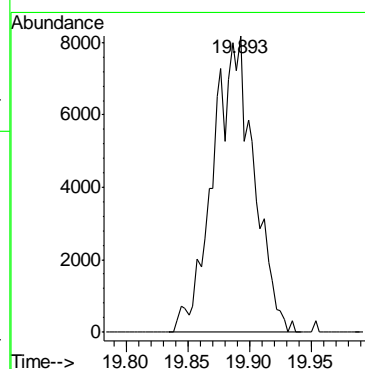
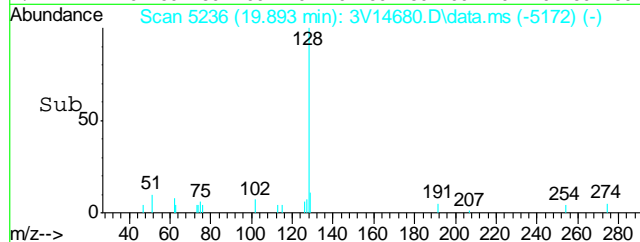
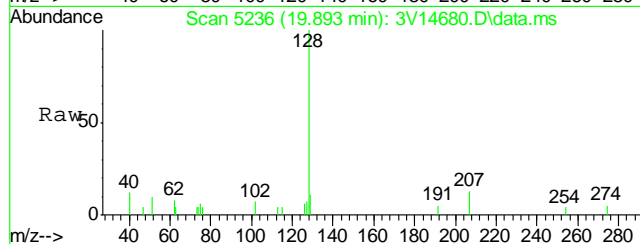
#1
TVH-Gasoline
Concen: 22.29 ug/l m
RT: 13.491 min Scan# 3241
Delta R.T. 0.000 min
Lab File: 3V14680.D
Acq: 21 Nov 2011 2:11 pm

Tgt Ion:TIC Resp: 174727



#91
Naphthalene
Concen: 1.49 ug/l
RT: 19.893 min Scan# 5236
Delta R.T. 0.004 min
Lab File: 3V14680.D
Acq: 21 Nov 2011 2:11 pm

Tgt Ion:128 Resp: 18848



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: D29646**Account:** KRWCCOL KRW Consulting, Inc.**Project:** XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB794-MB	GB13979.D	1	11/21/11	SK	n/a	n/a	GGB794

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

D29646-1

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	97% 60-140%

Blank Spike Summary

Job Number: D29646
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB794-BS	GB13980.D	1	11/21/11	SK	n/a	n/a	GGB794

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

D29646-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	110	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29646
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29577-1MS	GB13982.D	1	11/21/11	SK	n/a	n/a	GGB794
D29577-1MSD	GB13983.D	1	11/21/11	SK	n/a	n/a	GGB794
D29577-1	GB13981.D	1	11/21/11	SK	n/a	n/a	GGB794

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

D29646-1

CAS No.	Compound	D29577-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	12.2	J	154	162	97	159	95	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D29577-1	Limits
120-82-1	1,2,4-Trichlorobenzene	109%	107%	87%	60-140%

GC Volatiles

Raw Data

∞

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112111\GB13991.D\FID1A.CH Vial: 15
Signal #2 : Y:\1\DATA\112111\GB13991.D\FID2B.CH
Acq On : 21 Nov 2011 11:54 pm Operator: StephK
Sample : D29646-1, 50X Inst : GC/MS Ins
Misc : GC2426,GGB794,5.007,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 22 08:15:03 2011 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Tue Nov 22 08:14:15 2011
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

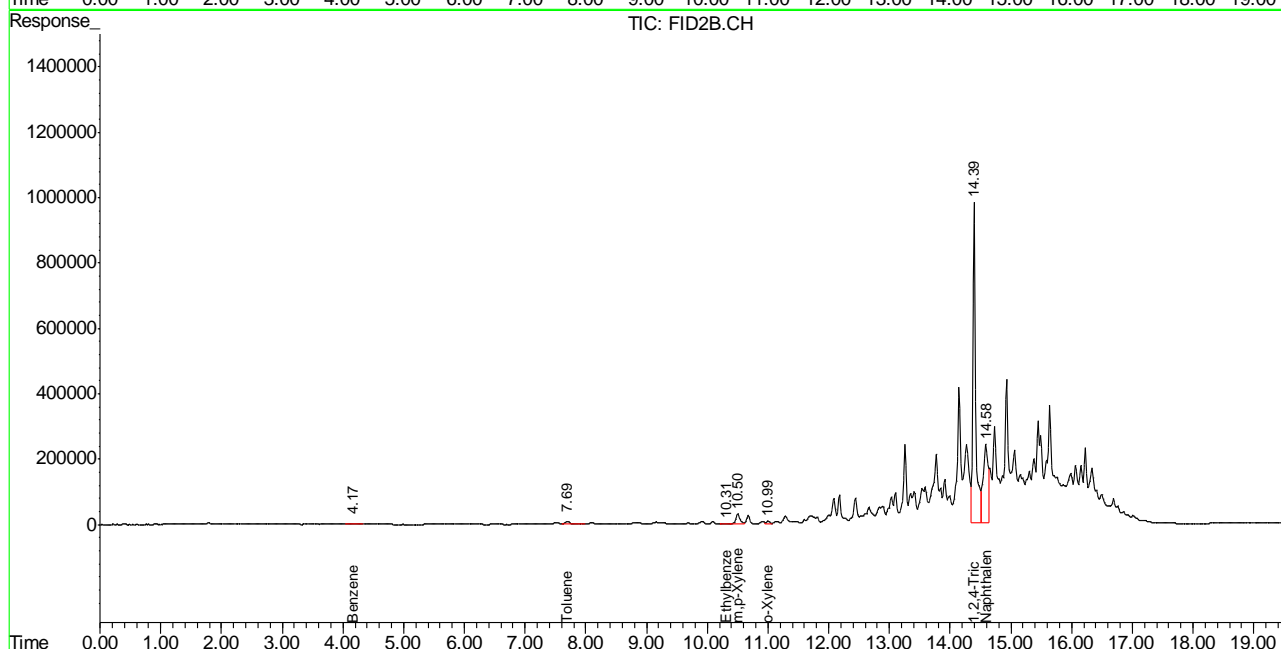
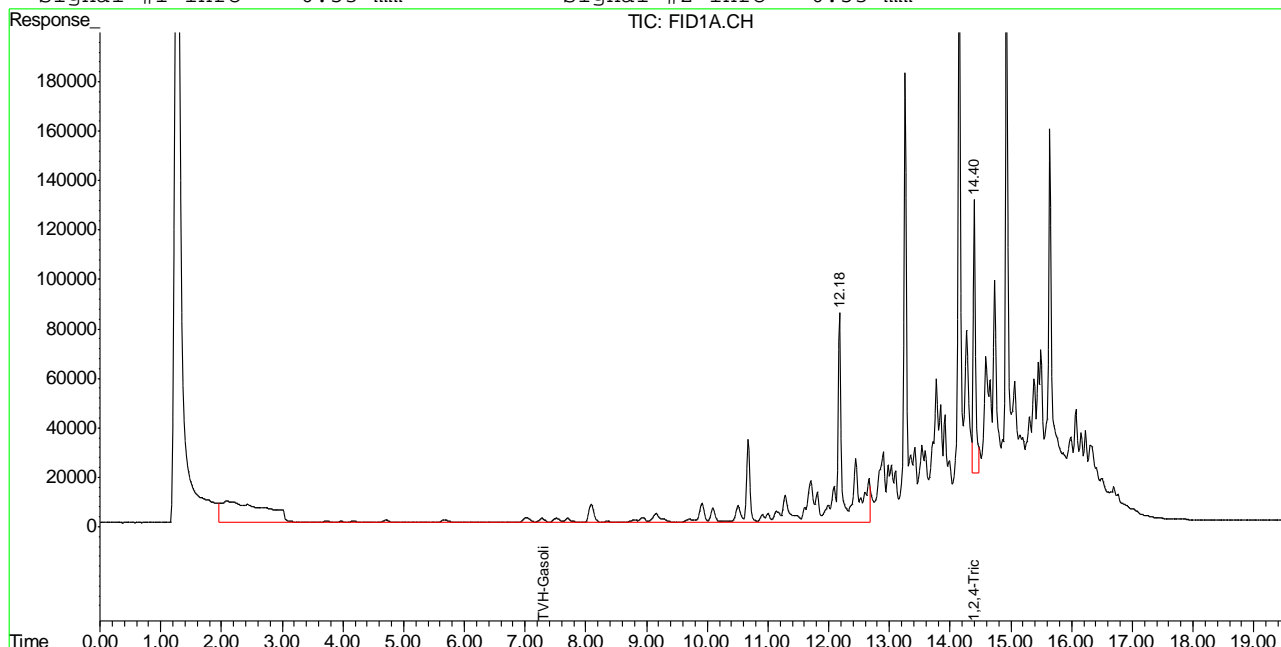
System Monitoring Compounds					
2) S	1,2,4-Trichlorobenzene	14.40	2998745	102.503 %	m
10) S	1,2,4-Trichlorobenzene (P)	14.39	30172742	131.277 %	
Target Compounds					
1) H	TVH-Gasoline	7.32	19077096	0.268 mg/L	
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T	Benzene	4.17	174450	0.305 ug/L	
6) T	Toluene	7.69	582981	1.029 ug/L	
7) T	Ethylbenzene	10.32	151614	0.311 ug/L	
8) T	m,p-Xylene	10.50	1559449	2.362 ug/L	
9) T	o-Xylene	11.00	392364	0.552 ug/L	
11) T	Naphthalene	14.59	13744876	53.400 ug/L	

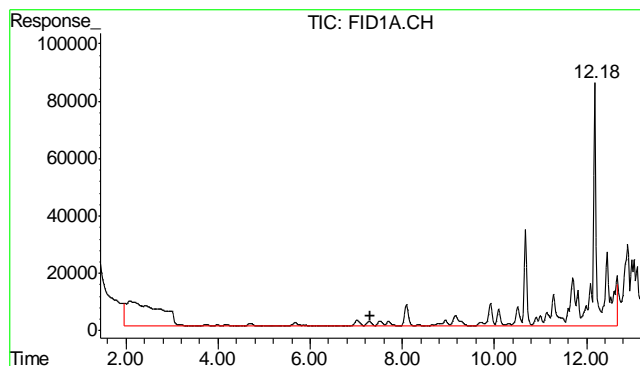
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112111\GB13991.D\FID1A.CH Vial: 15
 Signal #2 : Y:\1\DATA\112111\GB13991.D\FID2B.CH
 Acq On : 21 Nov 2011 11:54 pm Operator: StephK
 Sample : D29646-1, 50X Inst : GC/MS Ins
 Misc : GC2426,GGB794,5.007,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 22 8:19 2011 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Tue Nov 22 08:14:15 2011
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

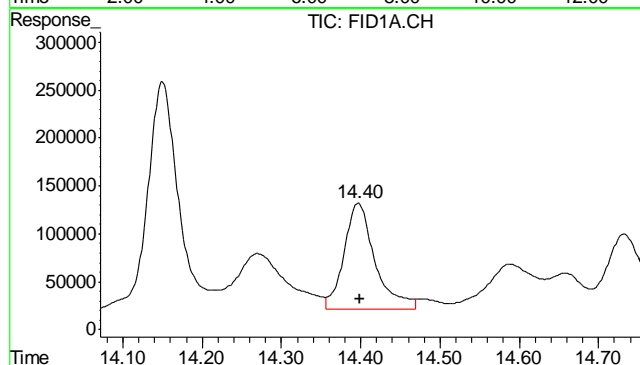
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





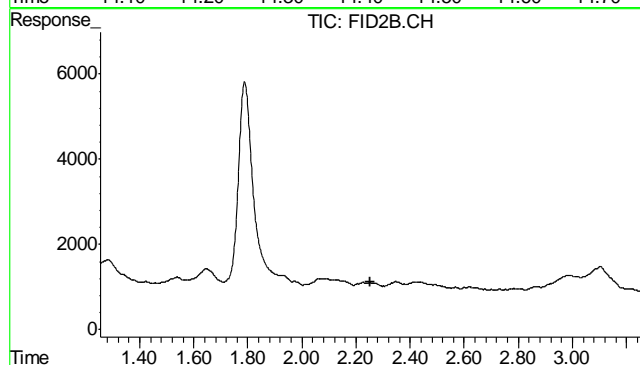
#1 TVH-Gasoline

R.T.: 7.315 min
Delta R.T.: 0.000 min
Response: 19077096
Conc: 0.27 mg/L m



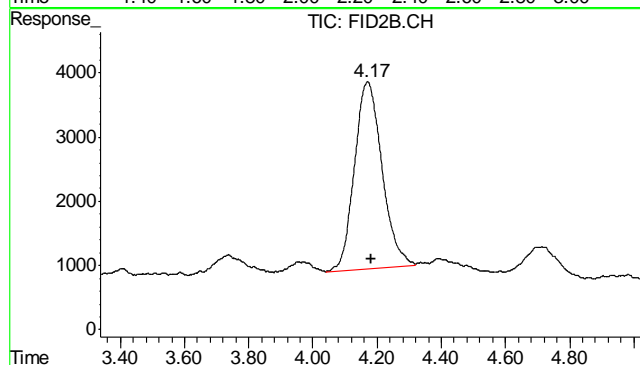
#2 1,2,4-Trichlorobenzene

R.T.: 14.397 min
Delta R.T.: -0.003 min
Response: 2998745
Conc: 102.50 % m



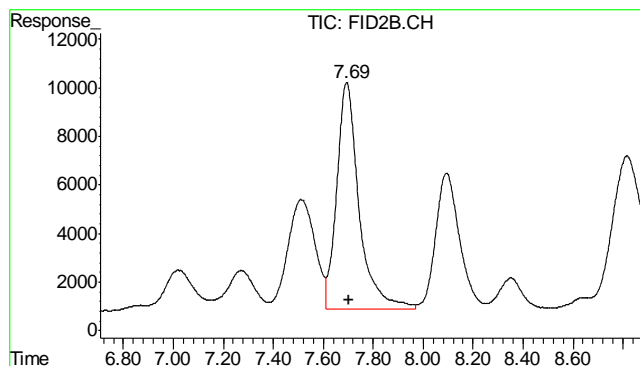
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.254 min
Response: 0
Conc: N.D.



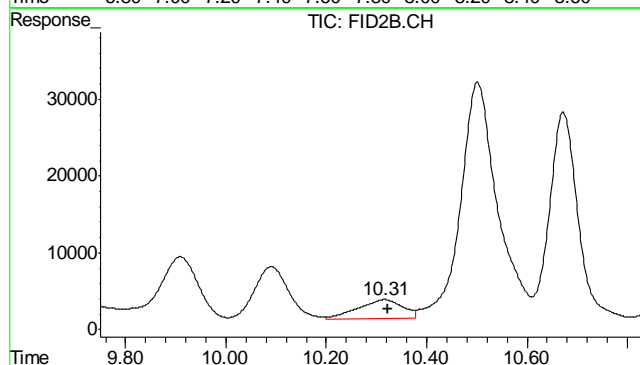
#5 Benzene

R.T.: 4.170 min
Delta R.T.: -0.011 min
Response: 174450
Conc: 0.30 ug/L



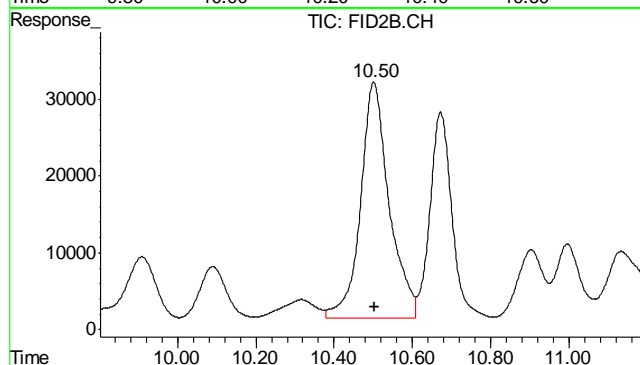
#6 Toluene

R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 582981
Conc: 1.03 ug/L



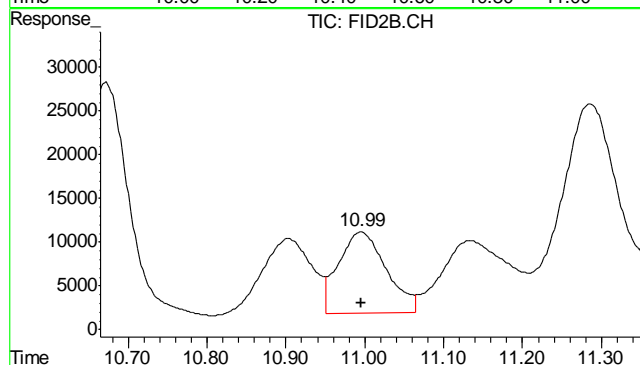
#7 Ethylbenzene

R.T.: 10.316 min
Delta R.T.: -0.007 min
Response: 151614
Conc: 0.31 ug/L



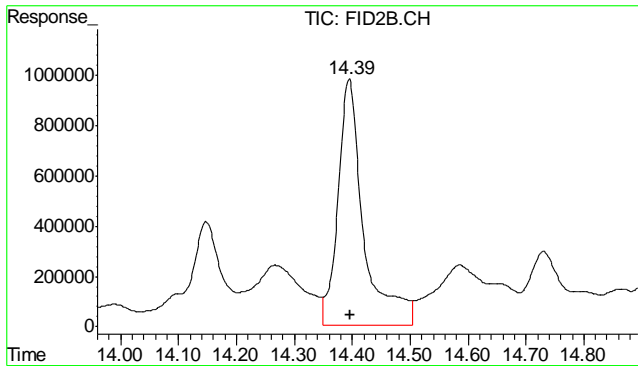
#8 m,p-Xylene

R.T.: 10.501 min
Delta R.T.: -0.002 min
Response: 1559449
Conc: 2.36 ug/L



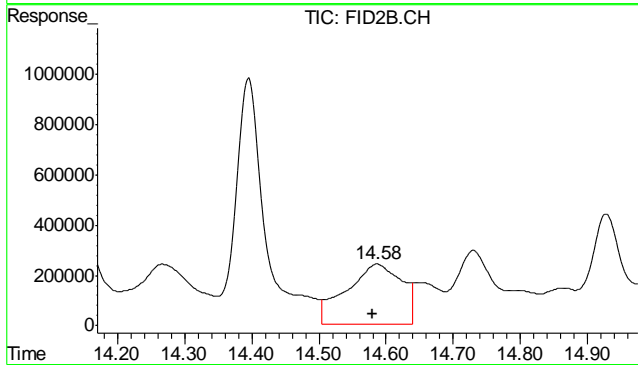
#9 o-Xylene

R.T.: 10.995 min
Delta R.T.: 0.000 min
Response: 392364
Conc: 0.55 ug/L



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

R.T.: 14.395 min
Delta R.T.: -0.002 min
Response: 30172742
Conc: 131.28 %



#11 Naphthalene

R.T.: 14.586 min
Delta R.T.: 0.007 min
Response: 13744876
Conc: 53.40 ug/L

8.1.1

8

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112111\GB13979.D\FID1A.CH Vial: 3
 Signal #2 : Y:\1\DATA\112111\GB13979.D\FID2B.CH
 Acq On : 21 Nov 2011 4:46 pm Operator: StephK
 Sample : MB, S Inst : GC/MS Ins
 Misc : GC2426,GGB794,5.000,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 21 16:55:18 2011 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Mon Nov 21 16:54:59 2011
 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	14.40	2831394	96.783	%
10) S 1,2,4-Trichlorobenzene (P)	14.40	23494418	102.221	%
Target Compounds				
1) H TVH-Gasoline	7.32	5609938	<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	7.70	197556	0.349	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	14.58	441310	1.715	ug/L

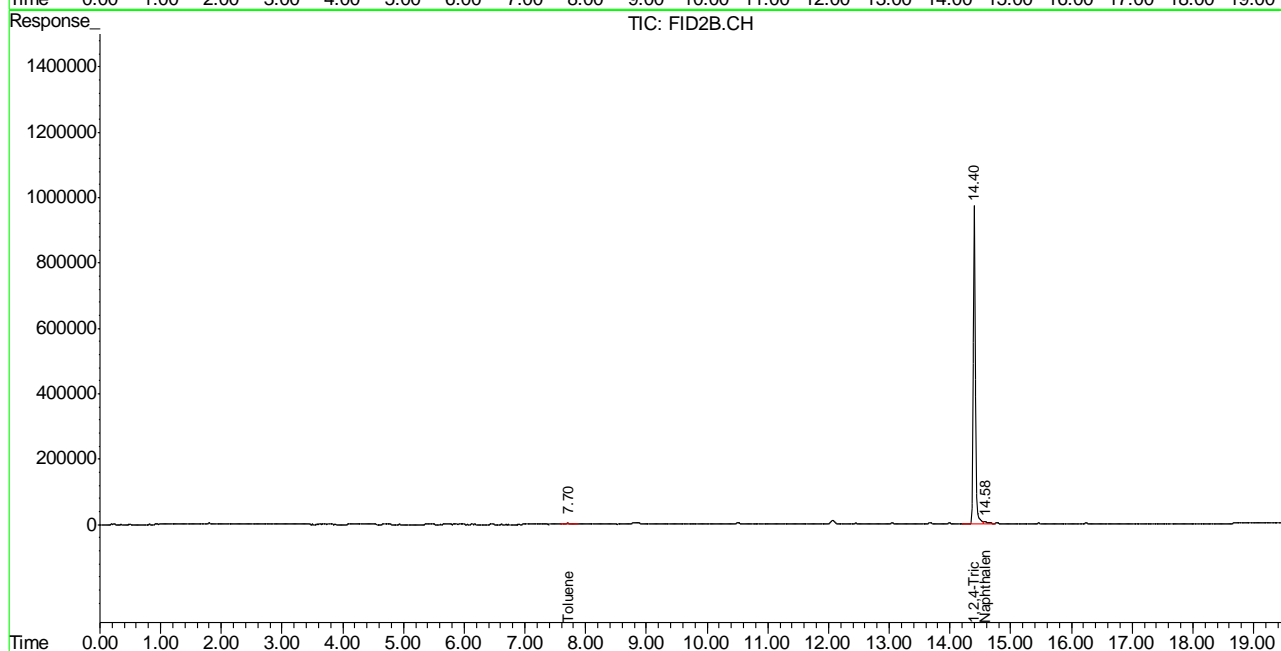
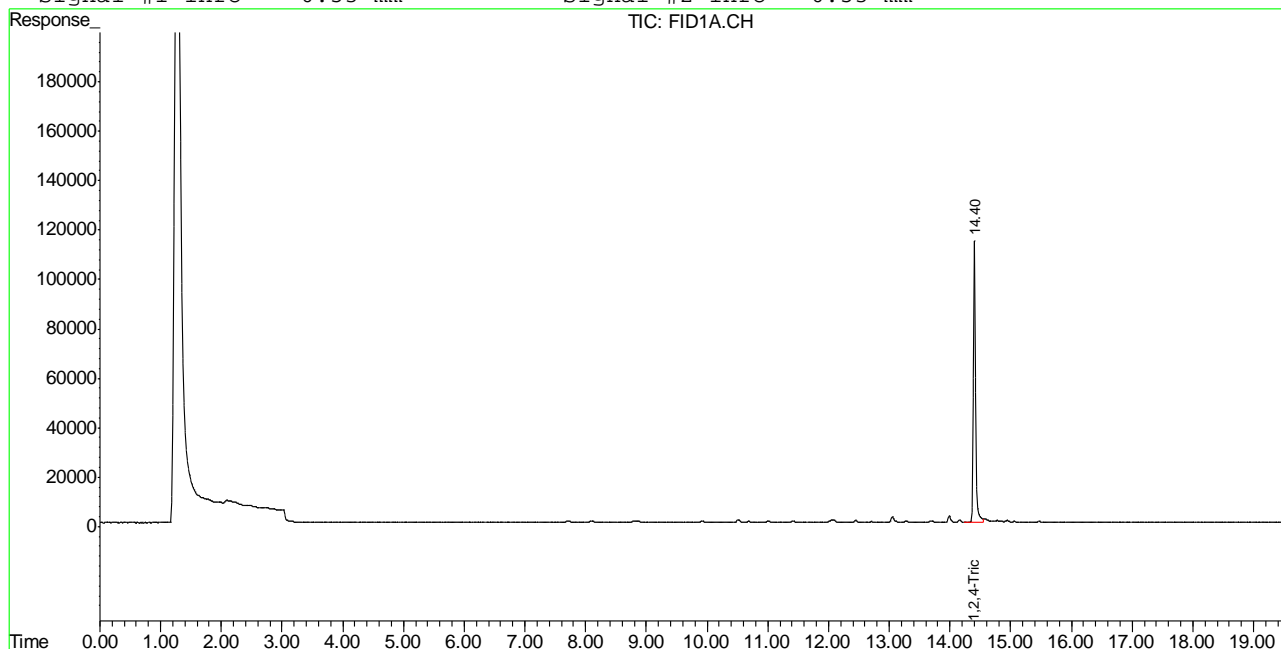
(f)=RT Delta > 1/2 Window (m)=manual int.
 GB13979.D TB791GB791SOIL.M Tue Nov 22 08:23:29 2011 GC

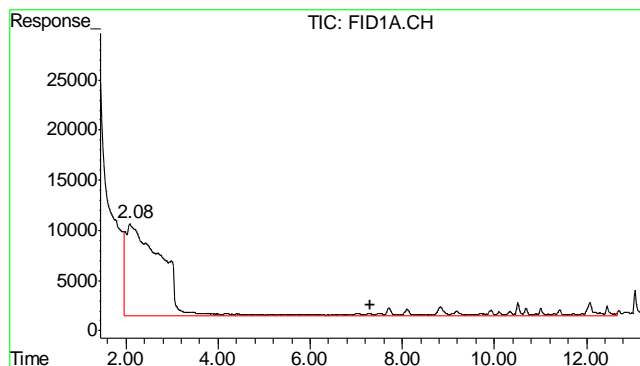
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112111\GB13979.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\112111\GB13979.D\FID2B.CH
Acq On : 21 Nov 2011 4:46 pm Operator: StephK
Sample : MB, S Inst : GC/MS Ins
Misc : GC2426,GGB794,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 21 16:55 2011 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Mon Nov 21 16:54:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

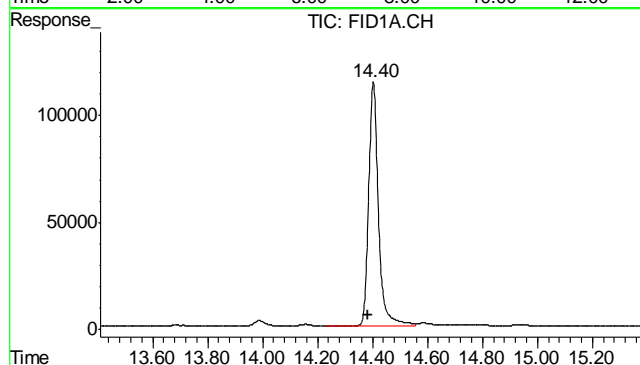
Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





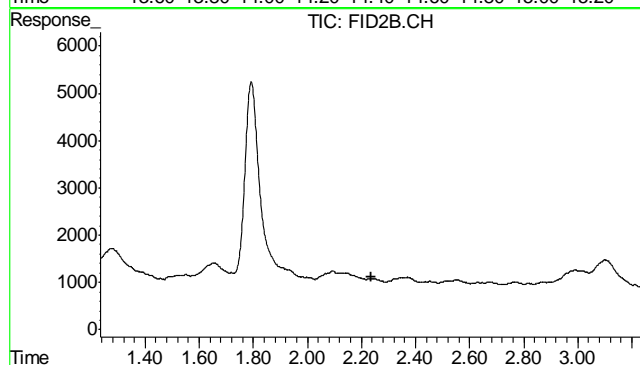
#1 TVH-Gasoline

R.T.: 7.315 min
Delta R.T.: 0.000 min
Response: 5609938
Conc: N.D.



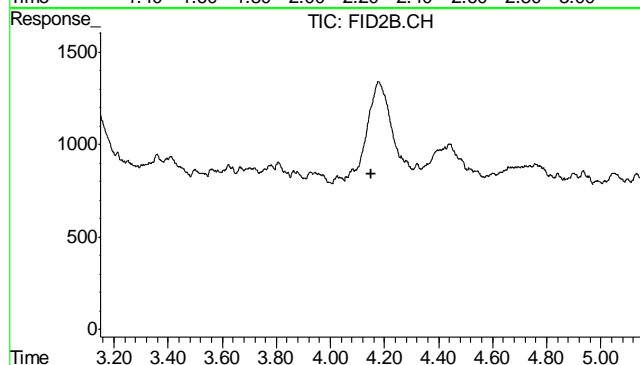
#2 1,2,4-Trichlorobenzene

R.T.: 14.403 min
Delta R.T.: 0.021 min
Response: 2831394
Conc: 96.78 %



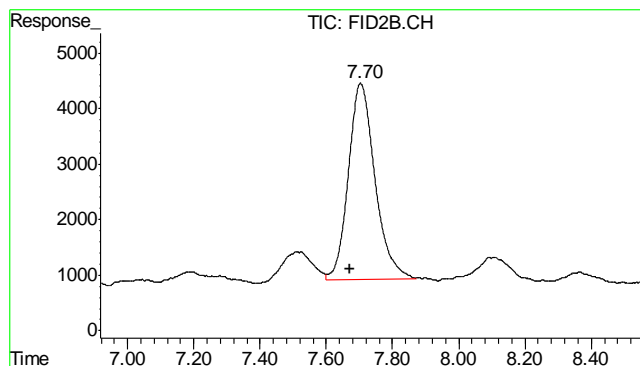
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.235 min
Response: 0
Conc: N.D.



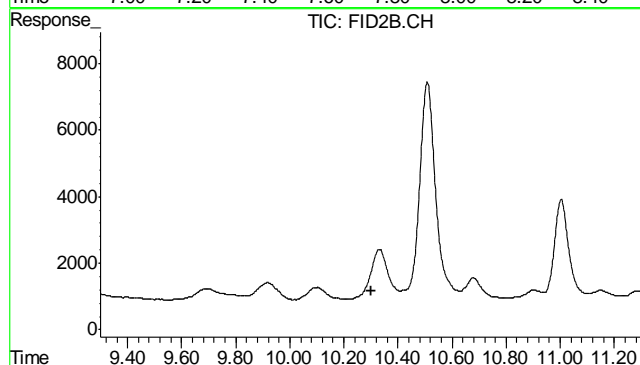
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.149 min
Response: 0
Conc: N.D.



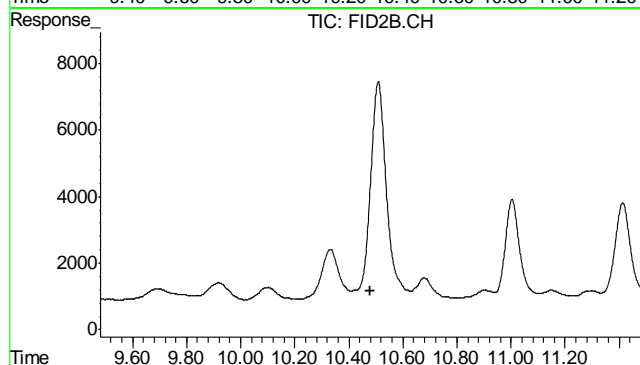
#6 Toluene

R.T.: 7.704 min
Delta R.T.: 0.033 min
Response: 197556
Conc: 0.35 ug/L



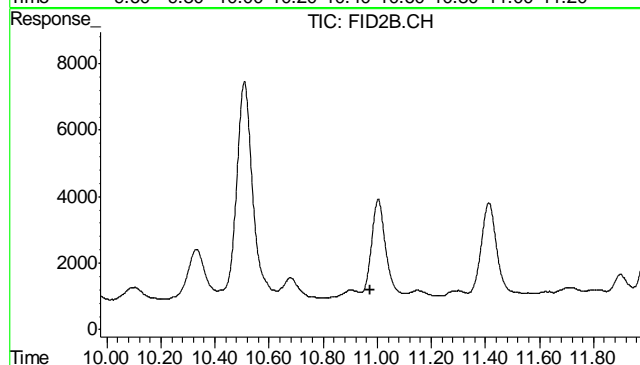
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T. : 10.300 min
Response: 0
Conc: N.D.



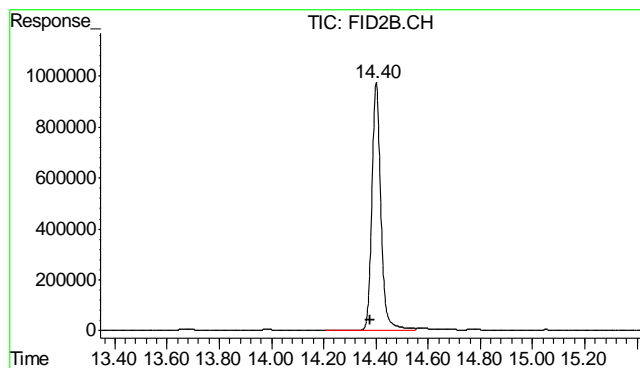
#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T. : 10.480 min
Response: 0
Conc: N.D.



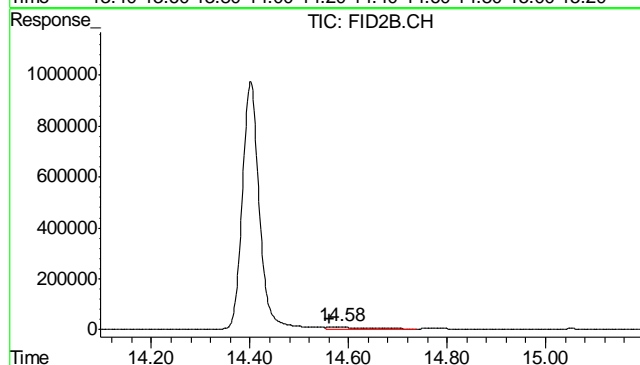
#9 o-Xylene

R.T.: 0.000 min
Exp R.T. : 10.976 min
Response: 0
Conc: N.D.



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

R.T.: 14.402 min
Delta R.T.: 0.022 min
Response: 23494418
Conc: 102.22 %



#11 Naphthalene

R.T.: 14.582 min
Delta R.T.: 0.020 min
Response: 441310
Conc: 1.71 ug/L

8.2.1

8

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: D29646
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4885-MB	FD11773.D	1	11/28/11	TR	11/21/11	OP4885	GFD599

The QC reported here applies to the following samples:

Method: SW846-8015B

D29646-1

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	94% 61-142%

9.1.1

6

Blank Spike Summary

Job Number: D29646
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4885-BS	FD11774.D	1	11/28/11	TR	11/21/11	OP4885	GFD599

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

D29646-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	554	83	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	83%	61-142%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29646
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4885-MS	FD11775.D	1	11/28/11	TR	11/21/11	OP4885	GFD599
OP4885-MSD	FD11776.D	1	11/28/11	TR	11/21/11	OP4885	GFD599
D29644-1	FD11777.D	1	11/28/11	TR	11/21/11	OP4885	GFD599

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

D29646-1

CAS No.	Compound	D29644-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	390		804	793	50	1090	87	31	24-157/35

CAS No.	Surrogate Recoveries	MS	MSD	D29644-1	Limits
84-15-1	o-Terphenyl	61%	77%	61%	61-142%

GC Semi-volatiles

Raw Data

Judy Melson
11/29/11 12:07

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2011\NOV\FD112811\FD11779.D Vial: 18
Acq On : 28 Nov 2011 11:59 pm Operator: TEDR
Sample : D29646-1 Inst : FID5
Misc : OP4885,GFD599,30.05,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 10:09:26 2011 Quant Results File: GFD599.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD599.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Tue Nov 29 09:00:39 2011
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	9.67	37989559	714.732 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	7.46	411452142	8133.981 mg/L

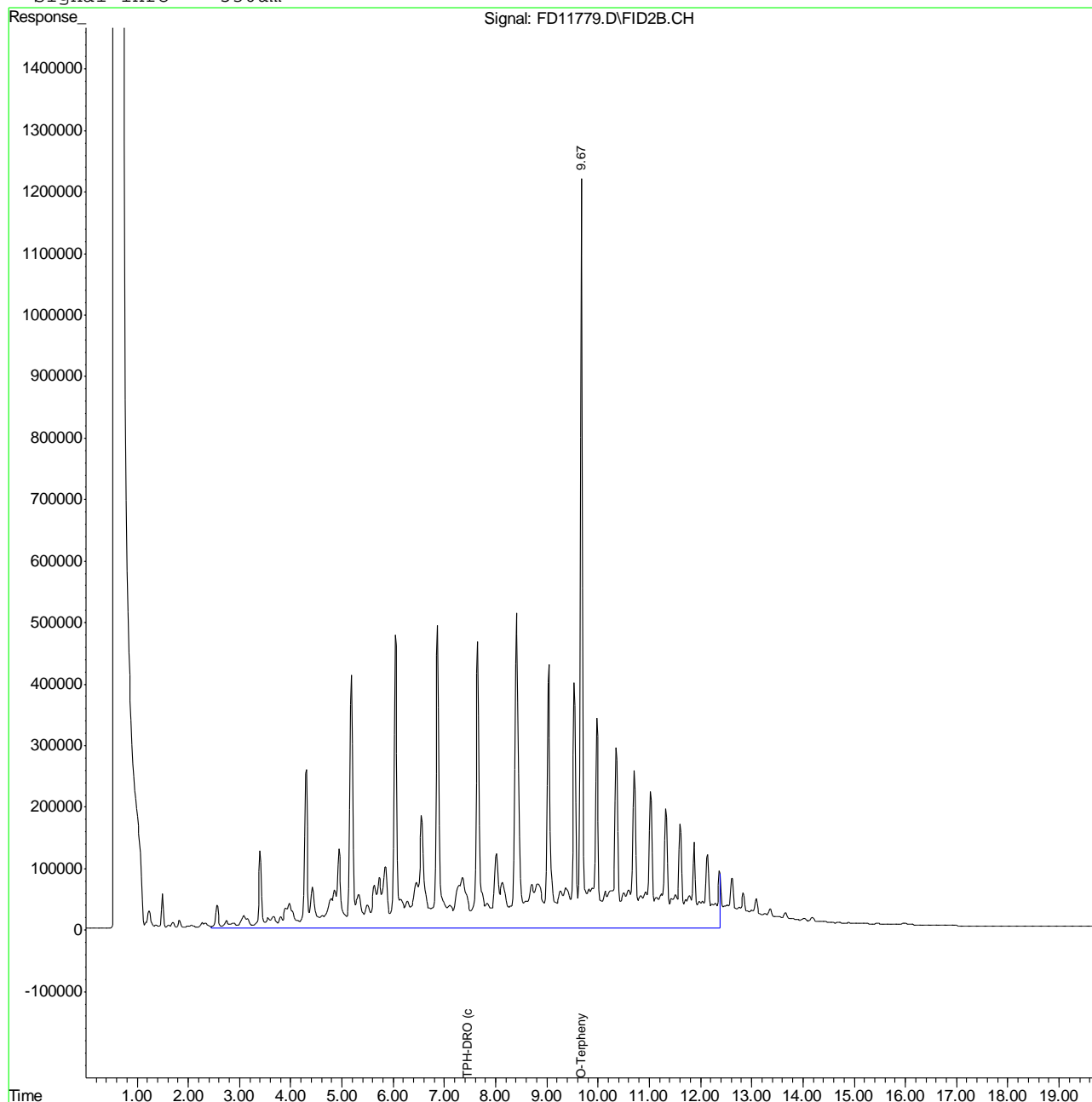
10.1.1
10

Quantitation Report (QT Reviewed)

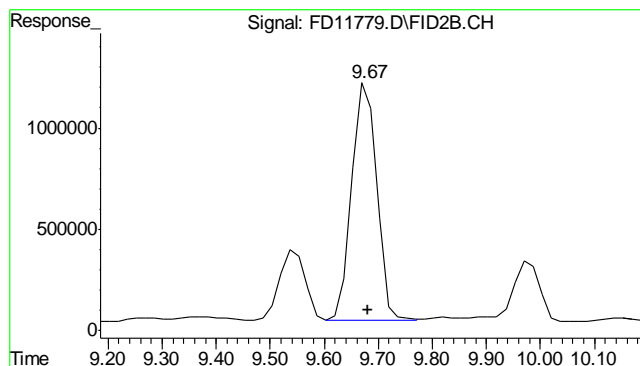
Data File : C:\MSDCHEM\2\DATA\2011\NOV\FD112811\FD11779.D Vial: 18
 Acq On : 28 Nov 2011 11:59 pm Operator: TEDR
 Sample : D29646-1 Inst : FID5
 Misc : OP4885,GFD599,30.05,,,2,1 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Nov 29 10:09 2011 Quant Results File: GFD599.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD599.M (Chemstation Integrator)
 Title : 8015B TEH
 Last Update : Tue Nov 29 09:00:39 2011
 Response via : Multiple Level Calibration
 DataAcq Meth : JH080911.M

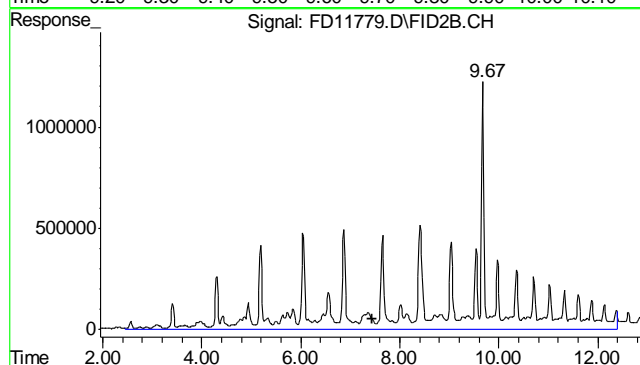
Volume Inj. : 1ul
 Signal Phase : RTX-5
 Signal Info : 530um



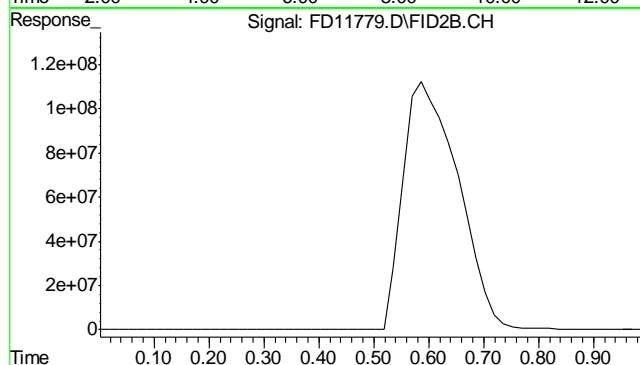
10.1.1
10



#1 O-Terphenyl
 R.T.: 9.674 min
 Delta R.T.: -0.006 min
 Response: 37989559
 Conc: 714.73 mg/L m



#2 TPH-DRO (c10-c28)
 R.T.: 7.455 min
 Delta R.T.: 0.000 min
 Response: 411452142
 Conc: 8133.98 mg/L m



#9 5a-Androstane
 R.T.: 0.000 min
 Exp R.T.: 0.000 min
 Response: 0
 Conc: N.D.

10.1.1
10

Judy Melson
11/29/11 12:07

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2011\NOV\FD112811\FD11773.D Vial: 12
Acq On : 11-28-2011 09:25:46 PM Operator: TEDR
Sample : OP4885-MB Inst : FID5
Misc : OP4885,GFD599,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 10:04:27 2011 Quant Results File: GFD599.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD599.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Tue Nov 29 09:00:39 2011
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	9.68	49721277	942.239 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	7.46	2428144	46.985 mg/L

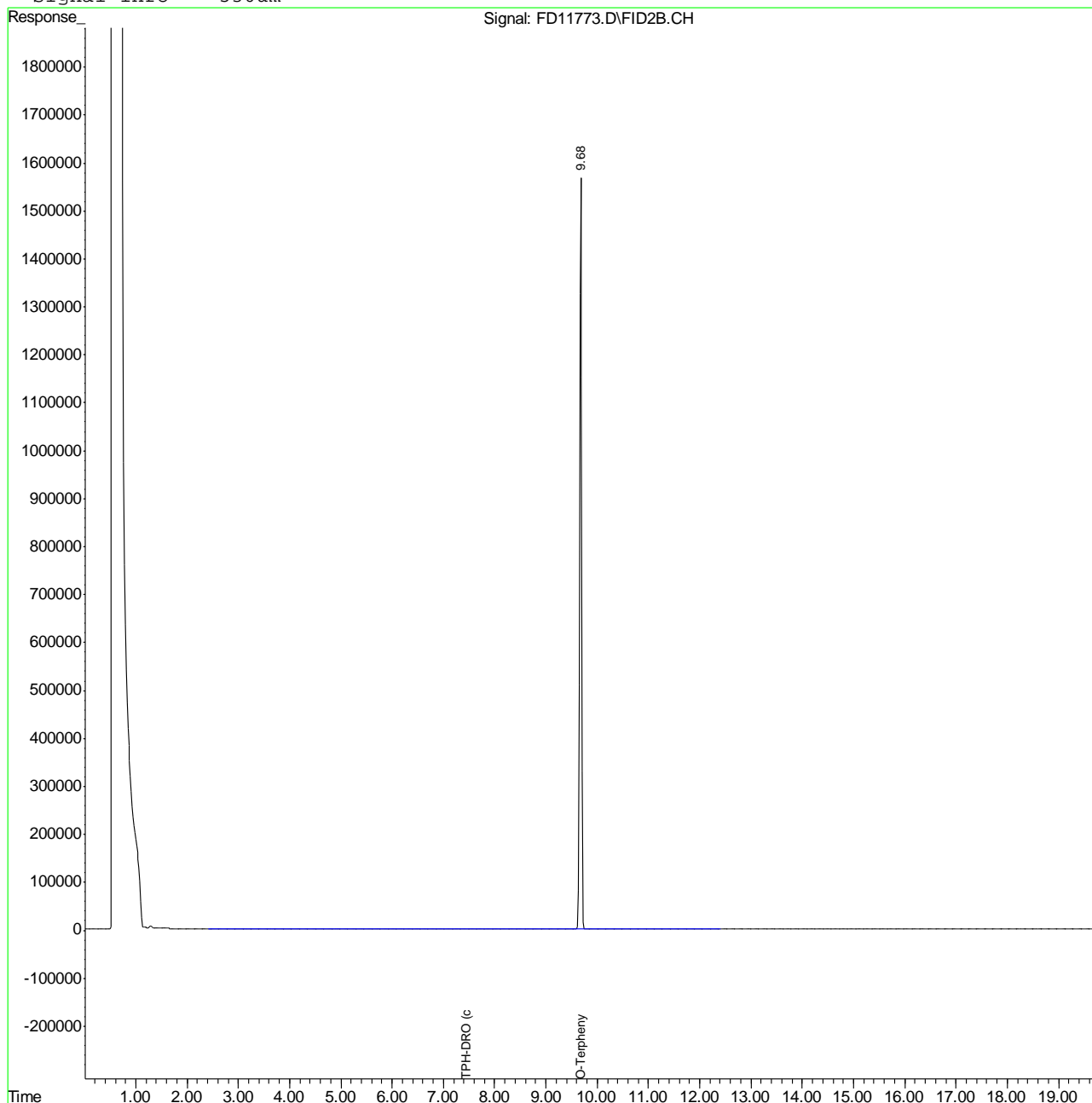
(f)=RT Delta > 1/2 Window (m)=manual int.
FD11773.D GFD599.M Tue Nov 29 10:40:25 2011 GC

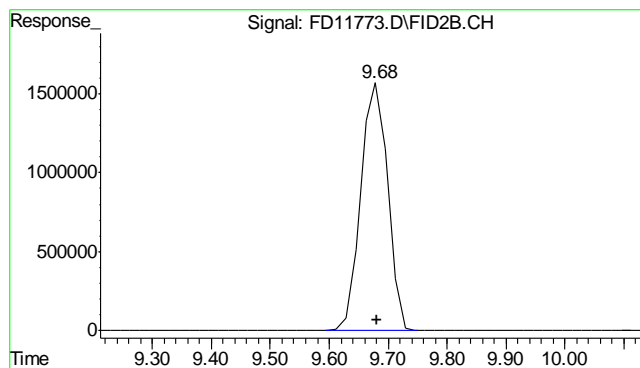
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2011\NOV\FD112811\FD11773.D Vial: 12
Acq On : 11-28-2011 09:25:46 PM Operator: TEDR
Sample : OP4885-MB Inst : FID5
Misc : OP4885,GFD599,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 10:04 2011 Quant Results File: GFD599.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD599.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Tue Nov 29 09:00:39 2011
Response via : Multiple Level Calibration
DataAcq Meth : JH080911.M

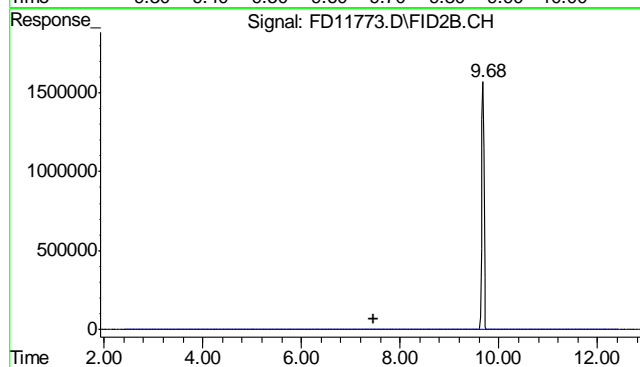
Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





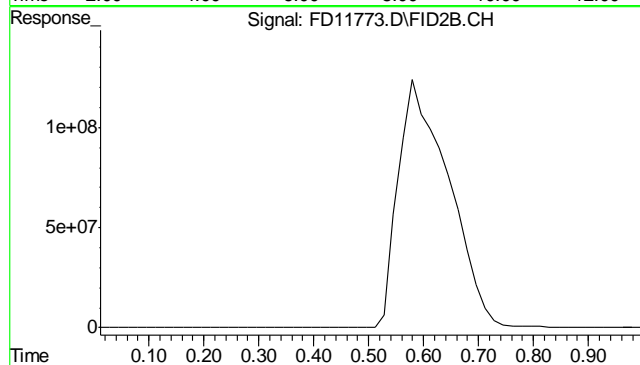
#1 O-Terphenyl

R.T.: 9.676 min
Delta R.T.: -0.004 min
Response: 49721277
Conc: 942.24 mg/L m



#2 TPH-DRO (c10-c28)

R.T.: 7.455 min
Delta R.T.: 0.000 min
Response: 2428144
Conc: 46.98 mg/L m



#9 5a-Androstane

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