Mountain States ACCUTEST LABORATORIES

11/29/11

Technical Report for

KRW Consulting, Inc.

XOM FRU 297-17A

1108-13A

Accutest Job Number: D29703

Sampling Date: 11/21/11

Report to:

KRW Consulting, Inc.
8000 West 14th Avenue Suite 200
Lakewood, CO 80214
cburger@krwconsulting.com; gknell@krwconsulting.com;
dknudson@krwconsulting.com; jhess@krwconsulting.com;
ATTN: Dwayne Knudson

Total number of pages in report: **61**

ACCREDITED IN ACCORDANCE WITH nelac

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)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7 8 9 10

Table of Contents

Sample Summary

KRW Consulting, Inc.

Job No: D29703

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D29703-1	11/21/11	15:20	CH	11/22/11	SO	Soil	RP_MIX/BLEND_19,21 NOV

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	KRW Consulting, Inc.	**Job No**	D29703
Site:	XOM FRU 297-17A	**Report Dat**	11/29/2011 2:44:50 PM

On 11/22/2011, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.9 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D29703 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:** V5V1103

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29701-1MS, D29701-1MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015B

Matrix SO **Batch ID:** GGB795

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29637-1MS, D29637-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO **Batch ID:** OP4897

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29662-1MS, D29662-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO **Batch ID:** GN12639

- 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

Client Sample ID:	RP_MIX/BLEND_19,21 NOV		
Lab Sample ID:	D29703-1	**Date Sampled:**	11/21/11
Matrix:	SO - Soil	**Date Received:**	11/22/11
Method:	SW846 8260B	**Percent Solids:**	81.9
Project:	XOM FRU 297-17A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V18453.D	1	11/23/11	DC	n/a	n/a	V5V1103
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	155	72	32	ug/kg	
108-88-3	Toluene	286	140	72	ug/kg	
100-41-4	Ethylbenzene	ND	140	36	ug/kg	
1330-20-7	Xylene (total)	468	290	140	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	90%		61-130%
460-00-4	4-Bromofluorobenzene	95%		53-131%
17060-07-0	1,2-Dichloroethane-D4	111%		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

Client Sample ID: RP_MIX/BLEND_19,21 NOV
Lab Sample ID: D29703-1
Matrix: SO - Soil
Method: SW846 8015B
Project: XOM FRU 297-17A

Date Sampled: 11/21/11
Date Received: 11/22/11
Percent Solids: 81.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14020.D	1	11/22/11	SK	n/a	n/a	GGB795
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)	18.5	14	7.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	113%		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

Client Sample ID: RP_MIX/BLEND_19,21 NOV
Lab Sample ID: D29703-1
Matrix: SO - Soil
Method: SW846-8015B SW846 3546
Project: XOM FRU 297-17A

Date Sampled: 11/21/11
Date Received: 11/22/11
Percent Solids: 81.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI04573.D	1	11/23/11	CS	11/22/11	OP4897	GFI336
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)	563	16	11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		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

Mountain States ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

PAGE 1 OF 1

ACCUTEST LABORATORIES

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 #: D29703
Accutest Quote #:
Accutest Job #:

Client / Reporting Information

Company Name: KRW Consulting INC
Street Address: 8000 W. 14th Ave Ste. 200
City State Zip: Lakewood, Co 80214
Project Contact E-mail:
Phone # Fax #: 303-239-9011
Sampler(s) Name(s) Phone #: Col. Hollister 3073 239-9011

Project Information

Project Name: XOM-FRU-297-17A
Street:
City:
Project #: 1108-134
Client PO#:
Project Manager: Joe Hess

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:
Attention: PO#

Requested Analysis (see TEST CODE sheet)

Table 910

Matrix Codes

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
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
	RP-MIX/Blend-19,21 NOV		11/21/11	15:20	CH	SO	5					X					01
	2-Day rush on BTEX & TPH. Hold rest of Table 910 until further notice																Ap 11/22/11

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] Commercial "B" +Narrative
- [ ] FULLT1 (Level 3+4)
- [ ] State Forms
- [ ] EDD Format
- [x] PDF

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Please email results to KRW Piceance Creek XOM Team

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [x] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

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

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		11.21.11 1800	Rifle Service Center	2	11/22/11 1350	2
3			3	4		4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal # CO [x] Intact [ ] Not intact	Preserved where applicable [ ] NA	On Ice [x] Cooler Temp. 2.9

D29703: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D29703 **Client:** KRW CONSULTING, INC **Immediate Client Services Action Required:** No

Date / Time Received: 11/22/2011 1:50:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: XOM-FRU-297-17A **Airbill #'s:** HDCO

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	
2. Trip Blank listed on COC:	☐		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume rec'd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www/accutest.com

D29703: Chain of Custody
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Mountain States ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V1103-MB	5V18443.D	1	11/23/11	DC	n/a	n/a	V5V1103

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

D29703-1

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	94%	61-130%
460-00-4	4-Bromofluorobenzene	84%	53-131%
17060-07-0	1,2-Dichloroethane-D4	102%	62-130%

Blank Spike Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V1103-BS	5V18444.D	1	11/23/11	DC	n/a	n/a	V5V1103

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

D29703-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	53.7	107	70-130
100-41-4	Ethylbenzene	50	47.7	95	70-130
108-88-3	Toluene	50	44.1	88	70-130
1330-20-7	Xylene (total)	150	152	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	87%	61-130%
460-00-4	4-Bromofluorobenzene	109%	53-131%
17060-07-0	1,2-Dichloroethane-D4	111%	62-130%

Blank Spike Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V1103-BS	5V18445.D	1	11/23/11	DC	n/a	n/a	V5V1103

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

D29703-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	94%	61-130%
460-00-4	4-Bromofluorobenzene	93%	53-131%
17060-07-0	1,2-Dichloroethane-D4	113%	62-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29701-1MS	5V18447.D	1	11/23/11	DC	n/a	n/a	V5V1103
D29701-1MSD	5V18448.D	1	11/23/11	DC	n/a	n/a	V5V1103
D29701-1	5V18446.D	1	11/23/11	DC	n/a	n/a	V5V1103

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

D29703-1

CAS No.	Compound	D29701-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		3380	3550	105	3950	117	11	70-134/30
100-41-4	Ethylbenzene	ND		3380	3150	93	3590	106	13	70-137/30
108-88-3	Toluene	ND		3380	2900	86	3270	97	12	70-130/30
1330-20-7	Xylene (total)	ND		10100	10100	100	11400	113	12	61-131/30

CAS No.	Surrogate Recoveries	MS	MSD	D29701-1	Limits
2037-26-5	Toluene-D8	92%	94%	91%	61-130%
460-00-4	4-Bromofluorobenzene	114%	121%	92%	53-131%
17060-07-0	1,2-Dichloroethane-D4	114%	116%	109%	62-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29701-1MS	5V18449.D	1	11/23/11	DC	n/a	n/a	V5V1103
D29701-1MSD	5V18450.D	1	11/23/11	DC	n/a	n/a	V5V1103
D29701-1	5V18446.D	1	11/23/11	DC	n/a	n/a	V5V1103

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

D29703-1

CAS No.	Compound	D29701-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD

CAS No.	Surrogate Recoveries	MS	MSD	D29701-1	Limits
2037-26-5	Toluene-D8	85%	88%	91%	61-130%
460-00-4	4-Bromofluorobenzene	95%	100%	92%	53-131%
17060-07-0	1,2-Dichloroethane-D4	104%	113%	109%	62-130%

Mountain States ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5112311.S\
Data File : 5V18453.D
Acq On : 23 Nov 2011 4:08 pm
Operator : DONC
Sample : D29703-1, 50x
Misc : MS2992,V5V1103,5.021,,100,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 28 14:15:28 2011
Quant Method : C:\msdchem\1\METHODS\V5AP1092TVH1092.M
Quant Title : 8260
QLast Update : Tue Nov 01 10:41:21 2011
Response via : Initial Calibration

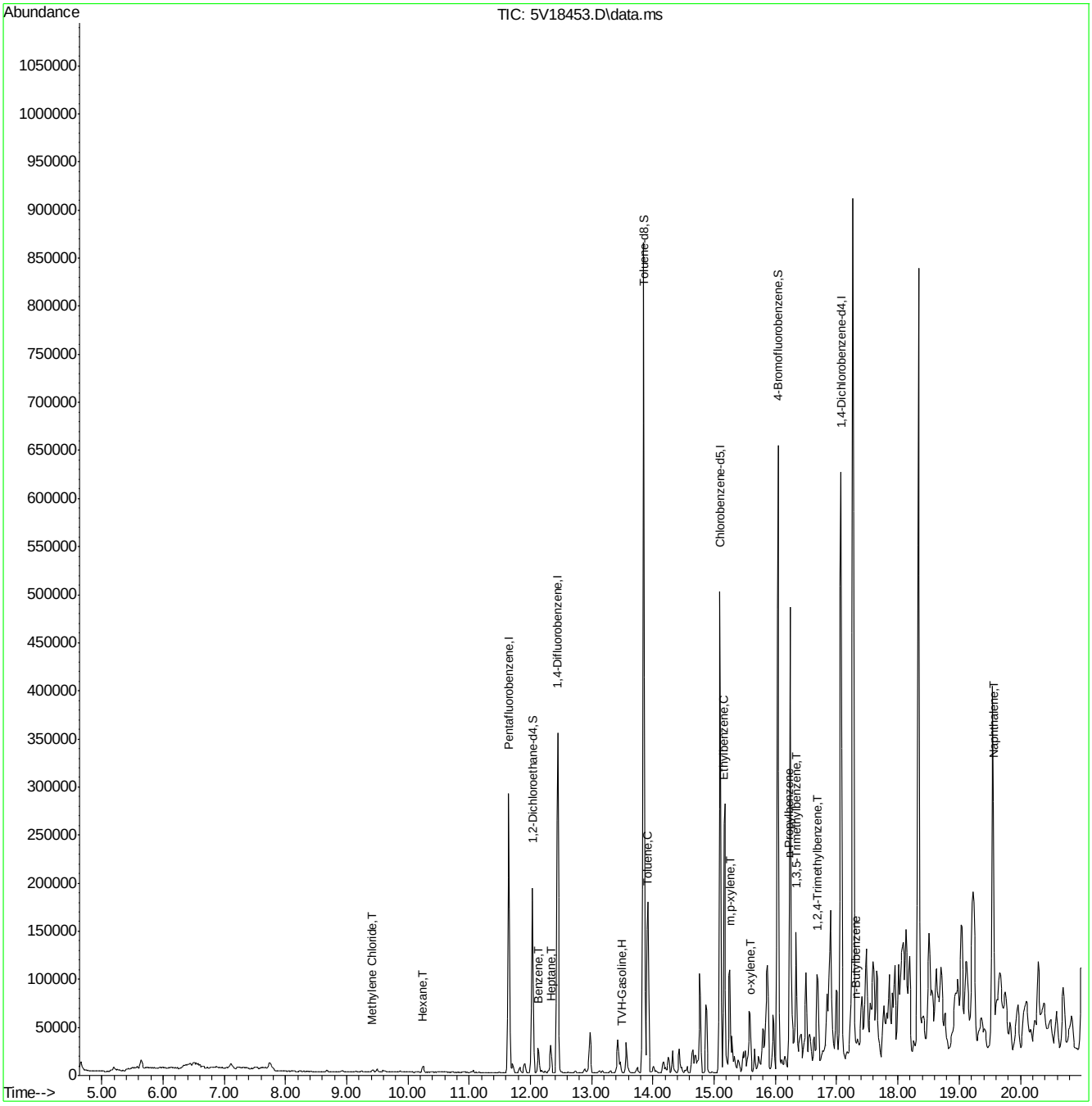
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.647	168	204746	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.446	114	274940	50.00	ug/l	0.00
53) Chlorobenzene-d5	15.095	117	263609	50.00	ug/l	0.00
74) 1,4-Dichlorobenzene-d4	17.070	152	192079	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	12.035	102	26940	55.40	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 110.80%			
61) Toluene-d8	13.851	98	526503	44.93	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.86%			
69) 4-Bromofluorobenzene	16.043	95	195830	47.39	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.78%			
Target Compounds						Qvalue
1) TVH-Gasoline	13.491	TIC	4371299m	278.21	ug/l	
17) Methylene Chloride	9.421	84	1297	0.47	ug/l	93
41) Hexane	10.243	57	3106	0.82	ug/l	100
43) Heptane	12.332	43	10961	2.50	ug/l	98
50) Benzene	12.127	78	22901	2.16	ug/l	100
62) Toluene	13.908	92	31142	3.97	ug/l	96
66) Ethylbenzene	15.164	91	6036	0.42	ug/l	95
72) m,p-xylene	15.255	106	31081	5.82	ug/l	99
73) o-xylene	15.598	106	3909	0.70	ug/l	96
77) n-Propylbenzene	16.225	91	4621	0.24	ug/l #	52
80) 1,3,5-Trimethylbenzene	16.340	105	52900	3.78	ug/l	96
82) 1,2,4-Trimethylbenzene	16.682	105	50144	3.55	ug/l	88
88) n-Butylbenzene	17.321	91	6401	0.44	ug/l #	76
91) Naphthalene	19.559	128	34047	4.72	ug/l	100

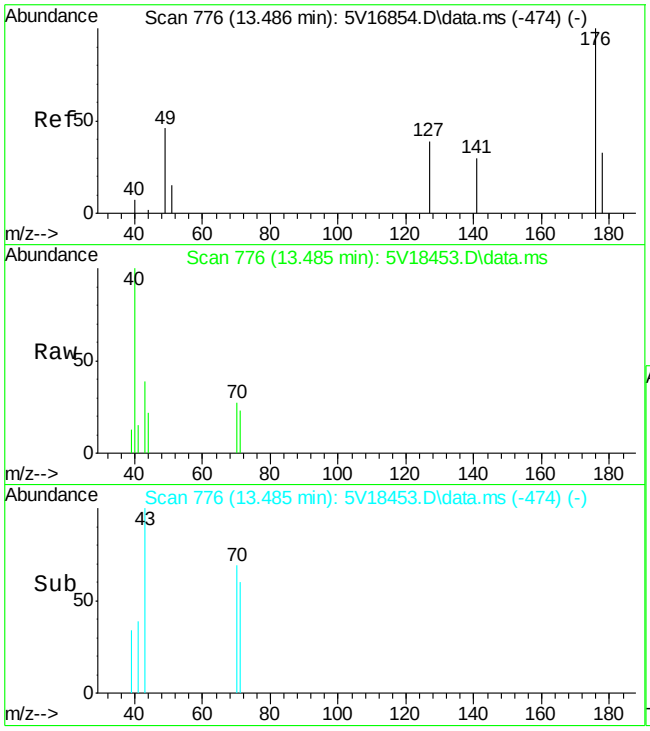
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5112311.S\
Data File : 5V18453.D
Acq On : 23 Nov 2011 4:08 pm
Operator : DONC
Sample : D29703-1, 50x
Misc : MS2992,V5V1103,5.021,,100,5,1
ALS Vial : 15 Sample Multiplier: 1

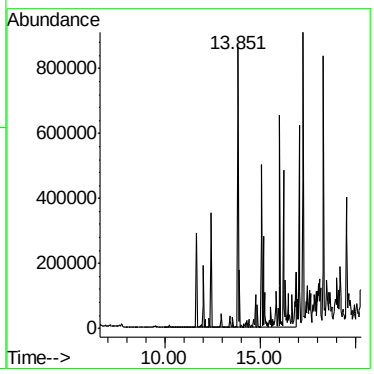
Quant Time: Nov 28 14:15:28 2011
Quant Method : C:\msdchem\1\METHODS\V5AP1092TVH1092.M
Quant Title : 8260
QLast Update : Tue Nov 01 10:41:21 2011
Response via : Initial Calibration

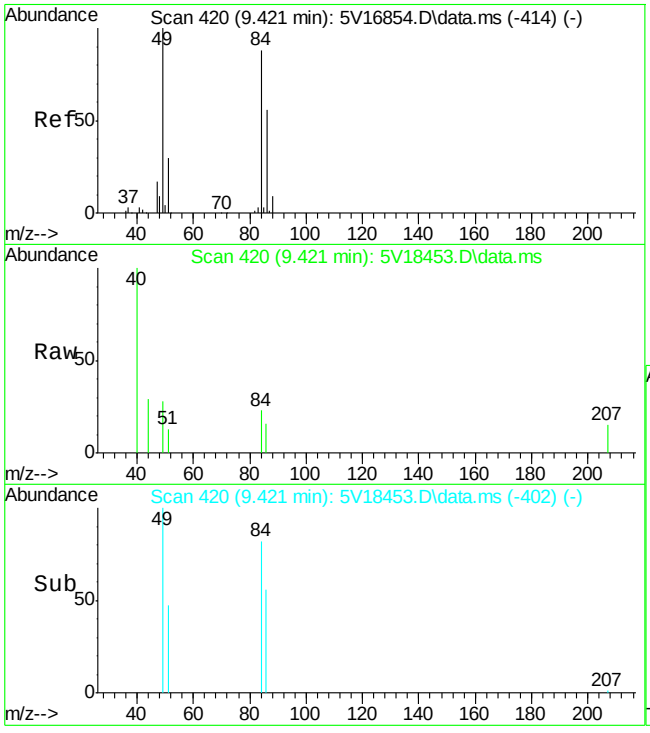




#1
TVH-Gasoline
Concen: 278.21 ug/l m
RT: 13.491 min Scan# 776
Delta R.T. 0.000 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion:TIC Resp: 4371299

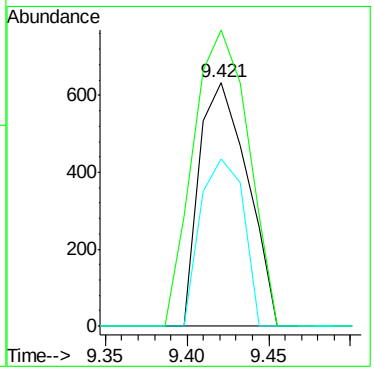


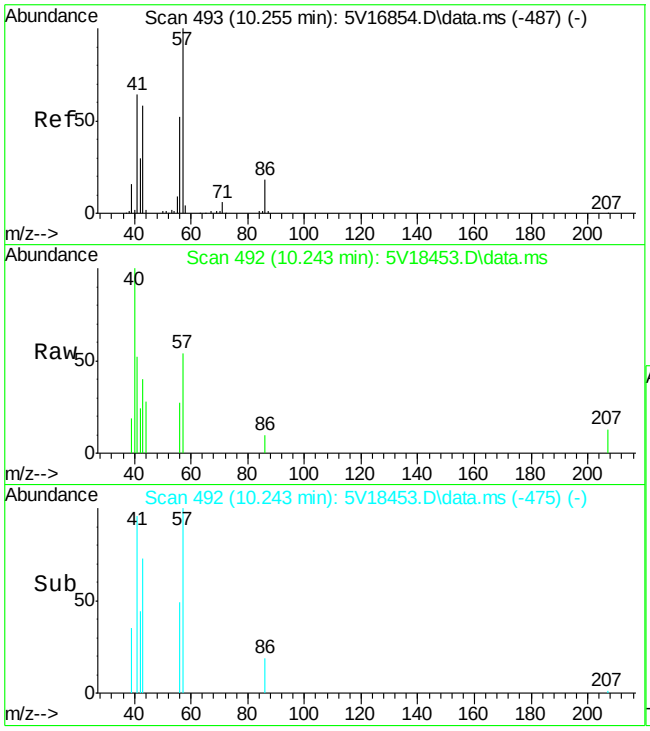


#17
Methylene Chloride
Concen: 0.47 ug/l
RT: 9.421 min Scan# 420
Delta R.T. 0.000 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion: 84 Resp: 1297

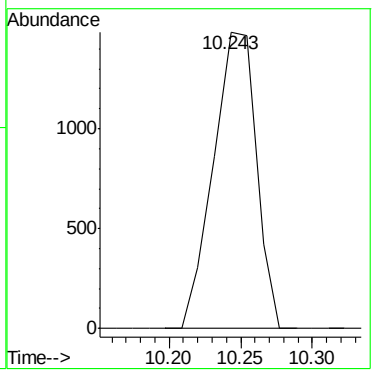
Ion	Ratio	Lower	Upper
84	100		
49	139.5	108.8	148.8
86	61.3	43.2	83.2

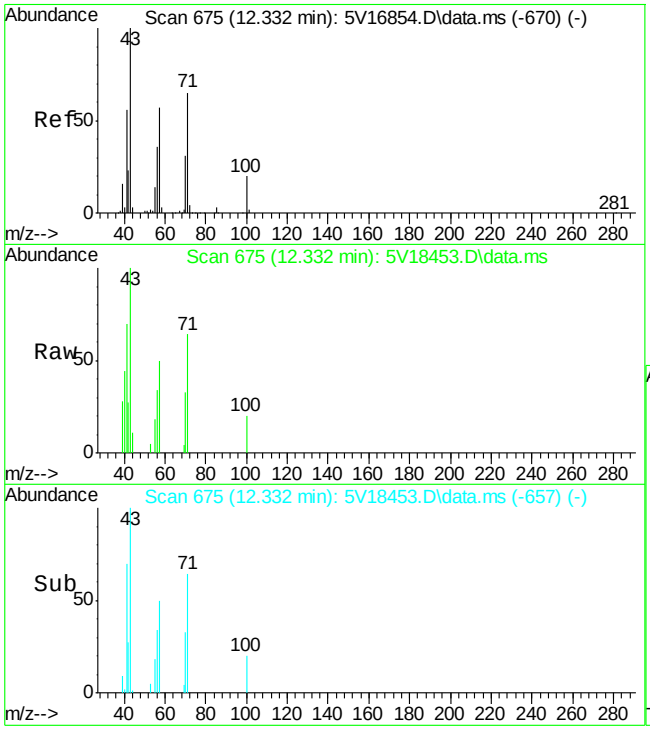




#41
Hexane
Concen: 0.82 ug/l
RT: 10.243 min Scan# 492
Delta R.T. -0.011 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion: 57 Resp: 3106

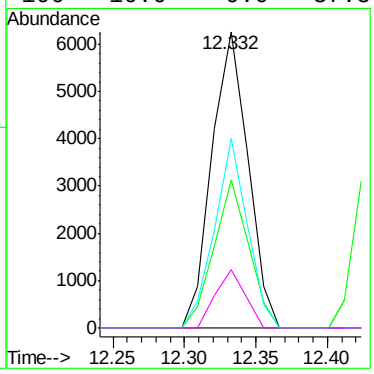


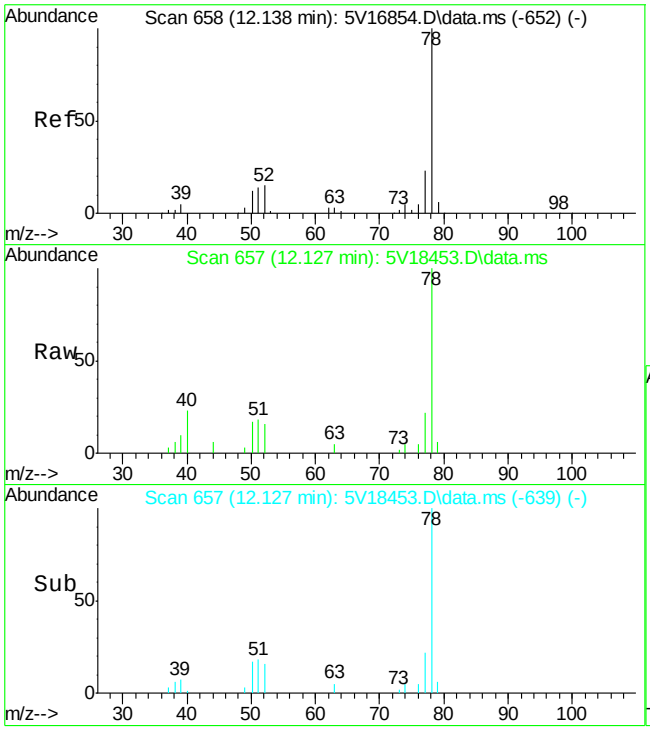


#43
Heptane
Concen: 2.50 ug/l
RT: 12.332 min Scan# 675
Delta R.T. 0.000 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion: 43 Resp: 10961

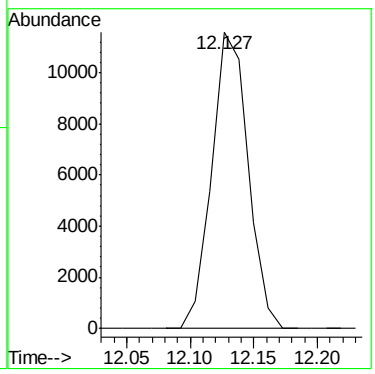
Ion	Ratio	Lower	Upper
43	100		
57	48.5	30.8	70.8
71	58.3	39.2	79.2
100	16.0	0.0	37.5

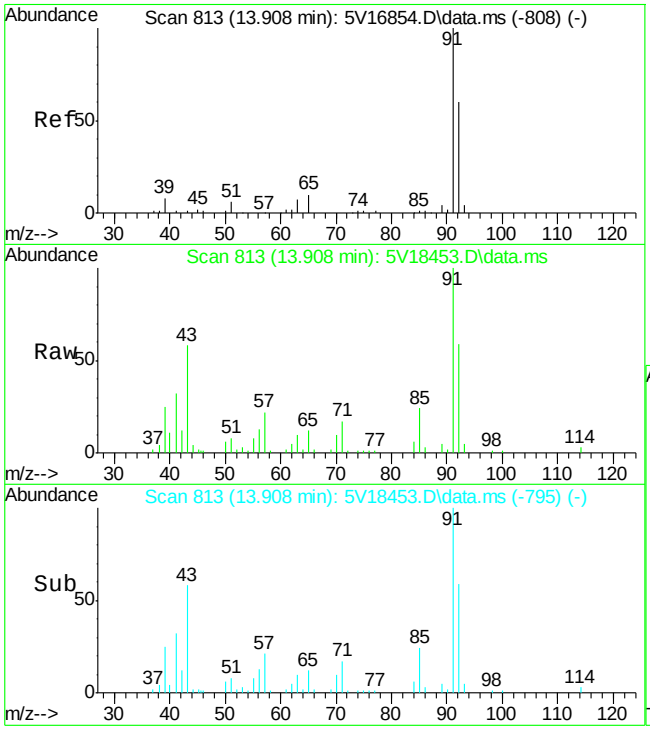




#50
Benzene
Concen: 2.16 ug/l
RT: 12.127 min Scan# 657
Delta R.T. 0.000 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion: 78 Resp: 22901

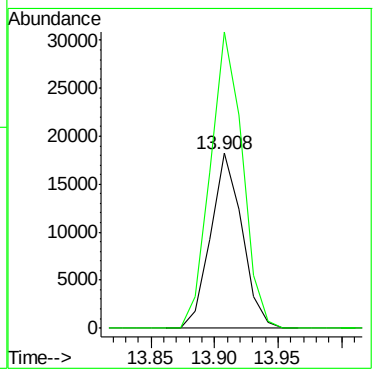


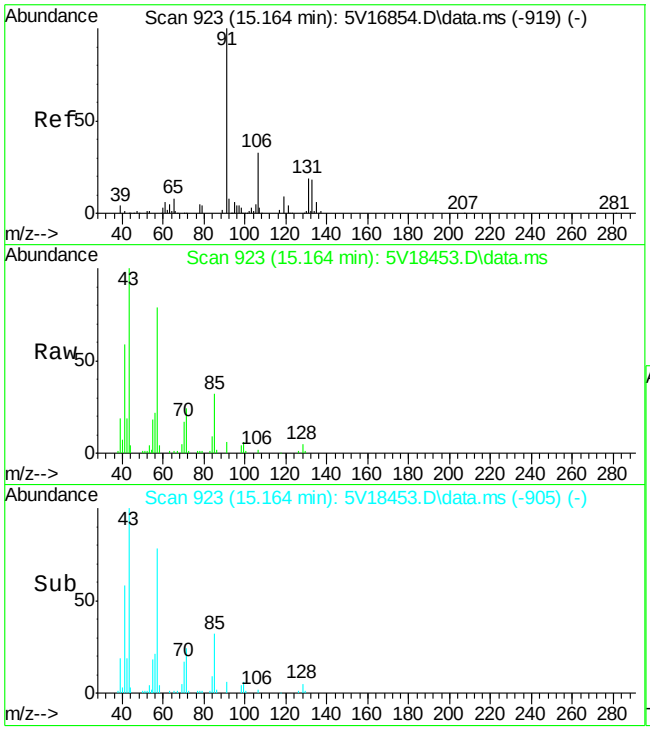


#62
Toluene
Concen: 3.97 ug/l
RT: 13.908 min Scan# 813
Delta R.T. 0.000 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion: 92 Resp: 31142

Ion	Ratio	Lower	Upper
92	100		
91	173.5	147.5	187.5

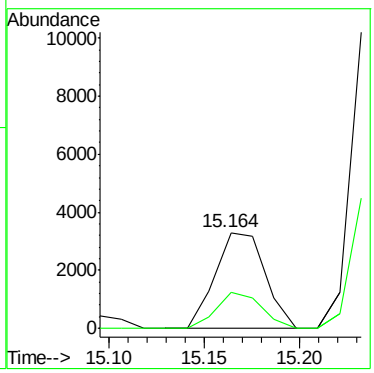


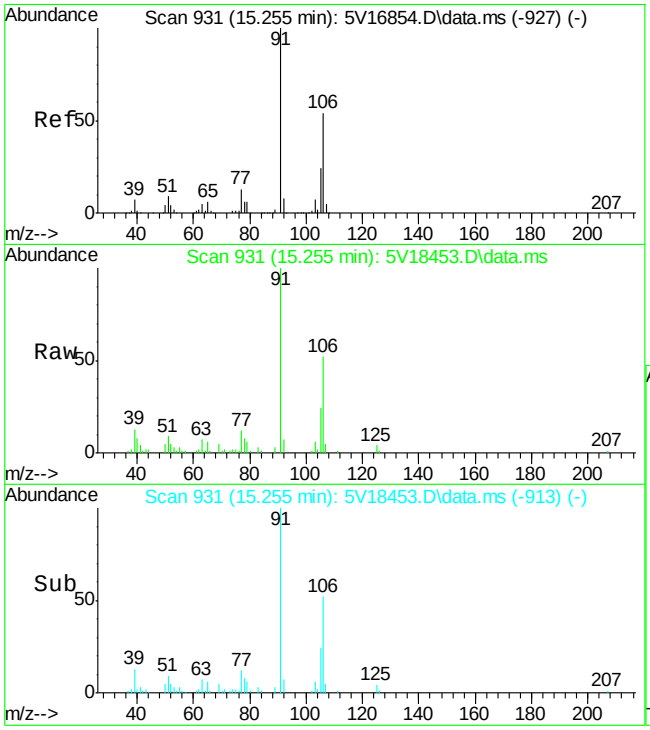


#66
Ethylbenzene
Concen: 0.42 ug/l
RT: 15.164 min Scan# 923
Delta R.T. 0.001 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion: 91 Resp: 6036

Ion	Ratio	Lower	Upper
91	100		
106	34.0	11.4	51.4

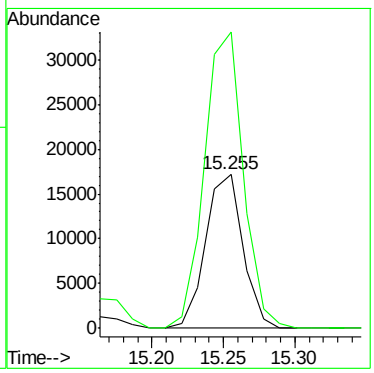


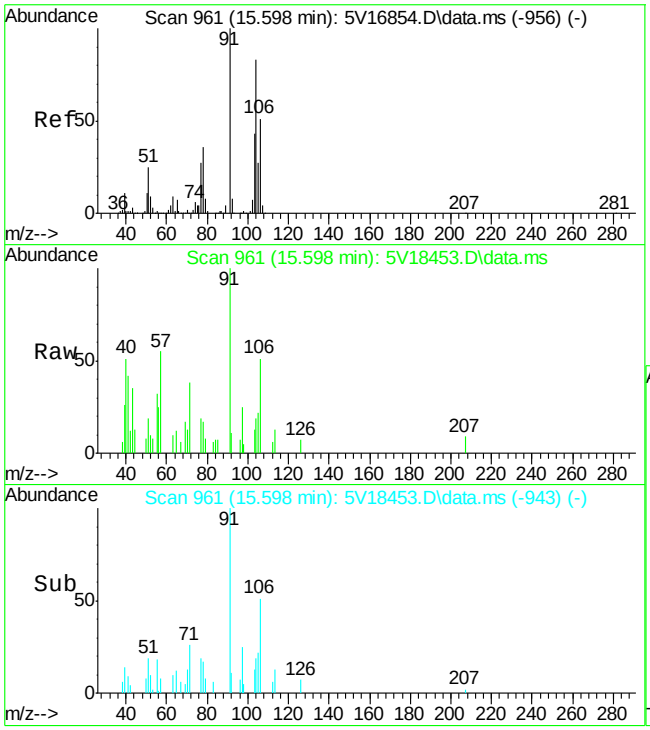


#72
m,p-xylene
Concen: 5.82 ug/l
RT: 15.255 min Scan# 931
Delta R.T. 0.001 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion:106 Resp: 31081

Ion	Ratio	Lower	Upper
106	100		
91	199.6	178.3	218.3

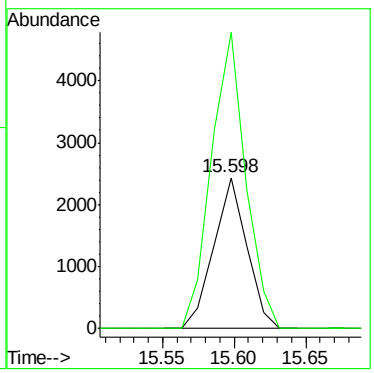


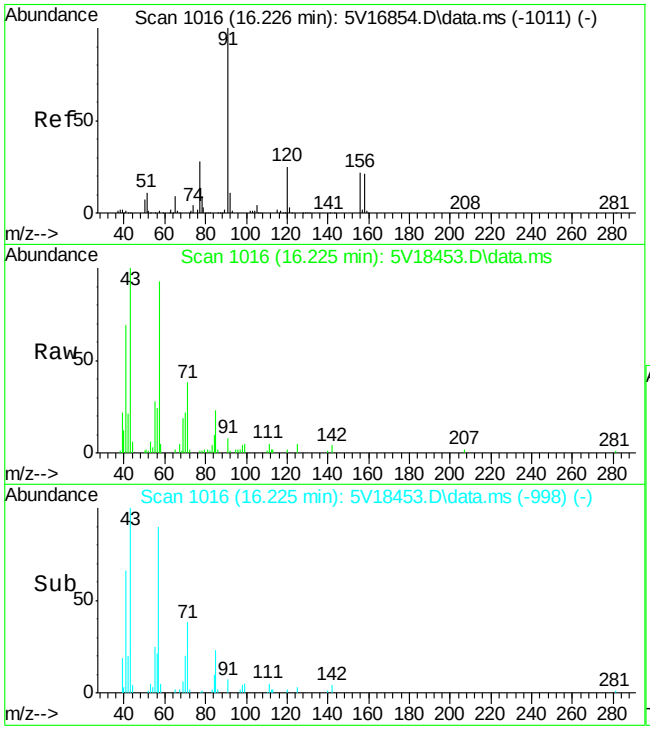


#73
o-xylene
Concen: 0.70 ug/l
RT: 15.598 min Scan# 961
Delta R.T. 0.001 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion:106 Resp: 3909

Ion	Ratio	Lower	Upper
106	100		
91	203.5	167.5	251.3

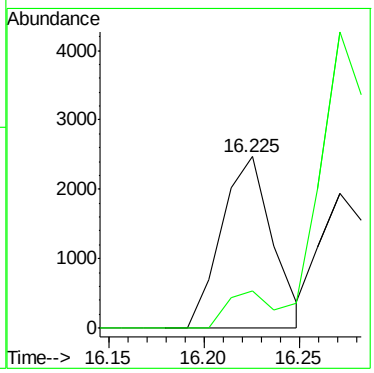


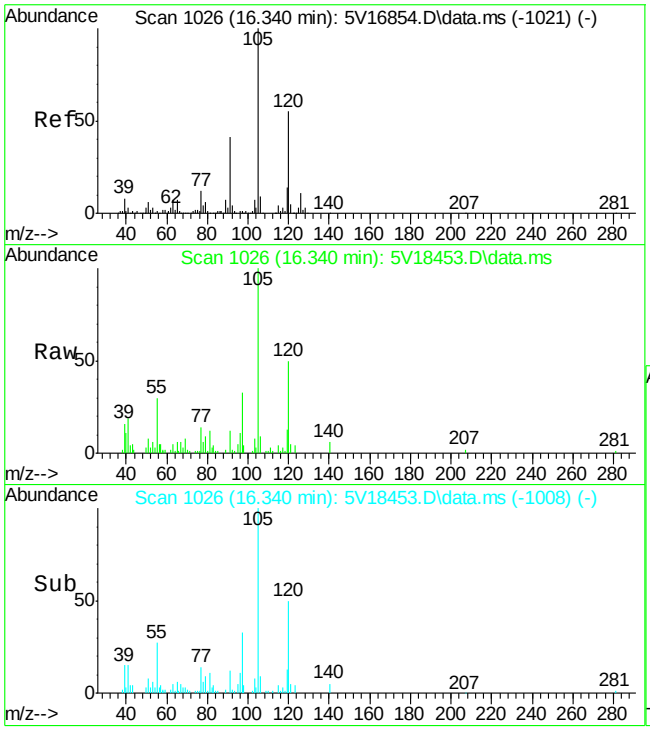


#77
n-Propylbenzene
Concen: 0.24 ug/l
RT: 16.225 min Scan# 1016
Delta R.T. 0.000 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion: 91 Resp: 4621

Ion	Ratio	Lower	Upper
91	100		
120	0.0	18.7	28.1#

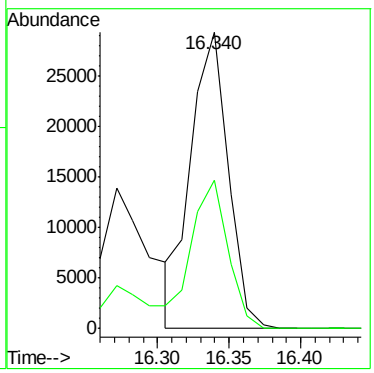


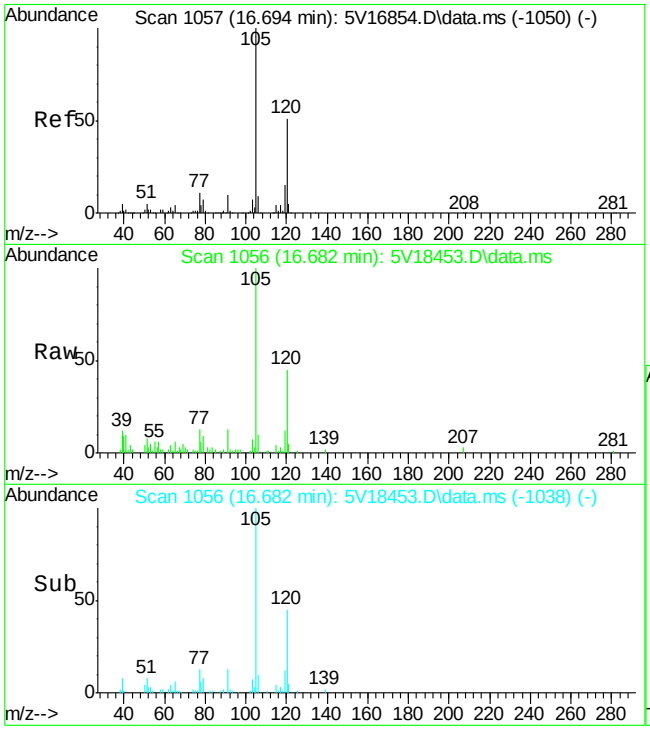


#80
1,3,5-Trimethylbenzene
Concen: 3.78 ug/l
RT: 16.340 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion:105 Resp: 52900

Ion	Ratio	Lower	Upper
105	100		
120	51.7	39.2	58.8

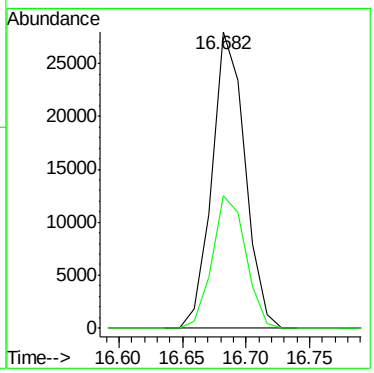


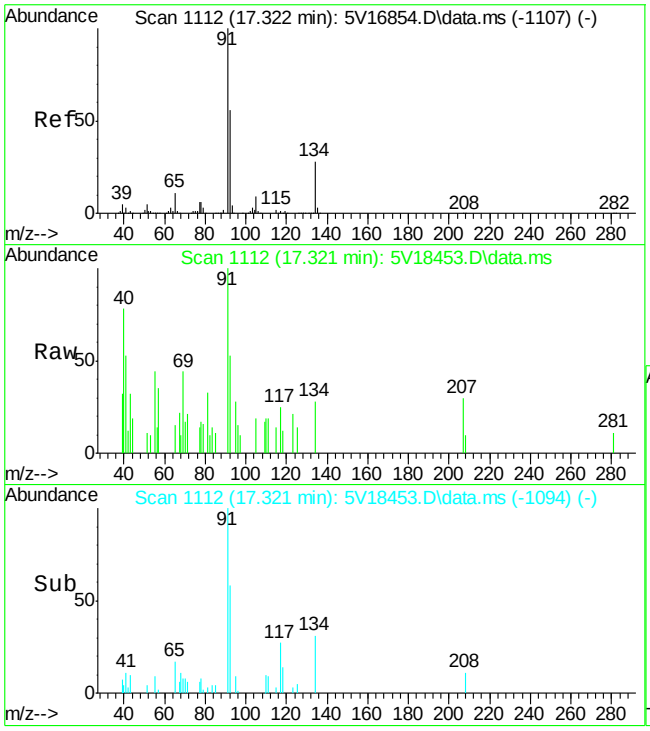


#82
1,2,4-Trimethylbenzene
Concen: 3.55 ug/l
RT: 16.682 min Scan# 1056
Delta R.T. 0.000 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion:105 Resp: 50144

Ion	Ratio	Lower	Upper
105	100		
120	45.5	43.0	64.6

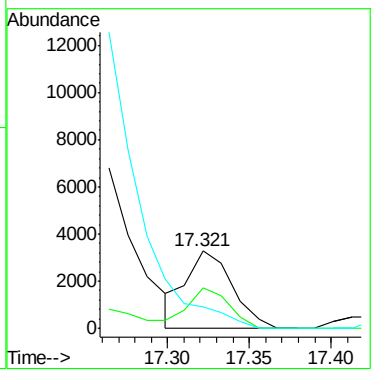


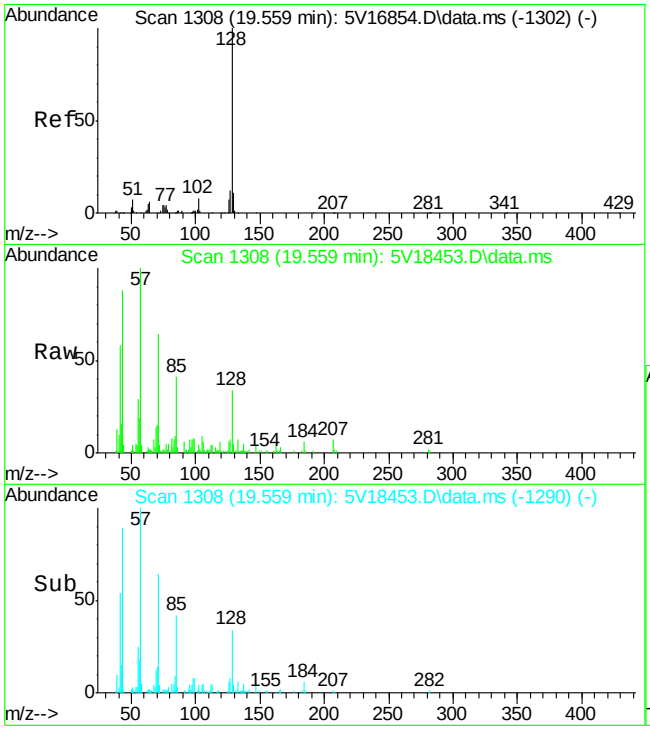


#88
n-Butylbenzene
Concen: 0.44 ug/l
RT: 17.321 min Scan# 1112
Delta R.T. 0.000 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion: 91 Resp: 6401

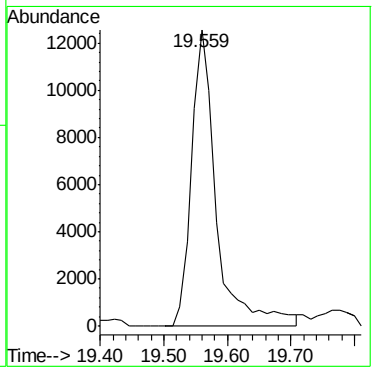
Ion	Ratio	Lower	Upper
91	100		
92	46.2	42.7	64.1
134	0.0	21.7	32.5#





#91
Naphthalene
Concen: 4.72 ug/l
RT: 19.559 min Scan# 1308
Delta R.T. 0.001 min
Lab File: 5V18453.D
Acq: 23 Nov 2011 4:08 pm

Tgt Ion:128 Resp: 34047



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5112311.S\
Data File : 5V18443.D
Acq On : 23 Nov 2011 10:52 am
Operator : DONC
Sample : MB, MEB112311
Misc : MS2992,V5V1103,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 28 14:06:21 2011
Quant Method : C:\msdchem\1\METHODS\V5AP1092TVH1092.M
Quant Title : 8260
QLast Update : Tue Nov 01 10:41:21 2011
Response via : Initial Calibration

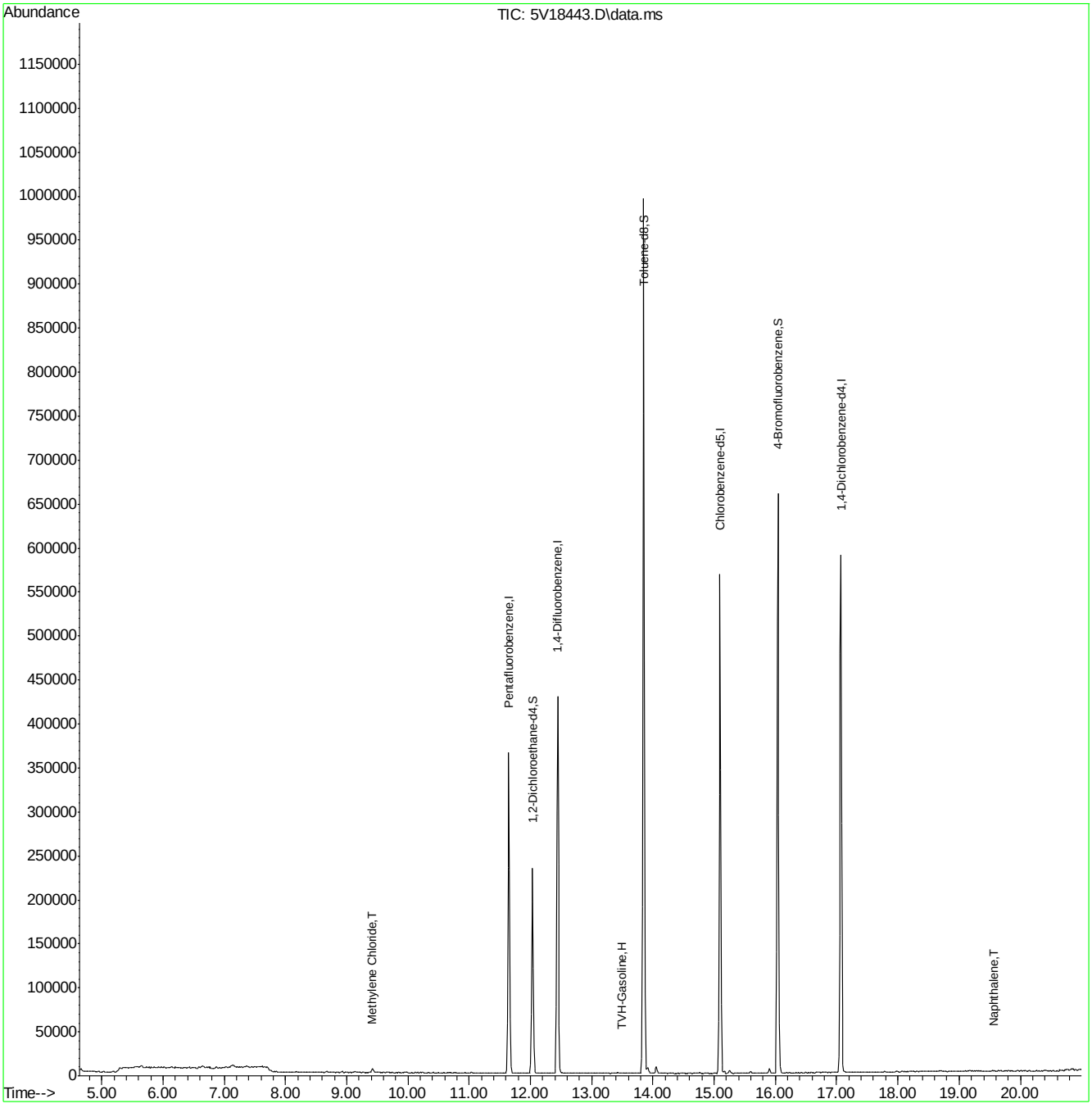
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.647	168	260562	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.446	114	335634	50.00	ug/l	0.00
53) Chlorobenzene-d5	15.095	117	301451	50.00	ug/l	0.00
74) 1,4-Dichlorobenzene-d4	17.070	152	184641	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	12.035	102	31609	50.94	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.88%			
61) Toluene-d8	13.850	98	626434	46.75	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.50%			
69) 4-Bromofluorobenzene	16.042	95	197913	41.89	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.78%			
Target Compounds						Qvalue
1) TVH-Gasoline	13.491	TIC	12026m	37.35	ug/l	
17) Methylene Chloride	9.421	84	2422	0.69	ug/l	94
91) Naphthalene	19.570	128	497	0.69	ug/l	100

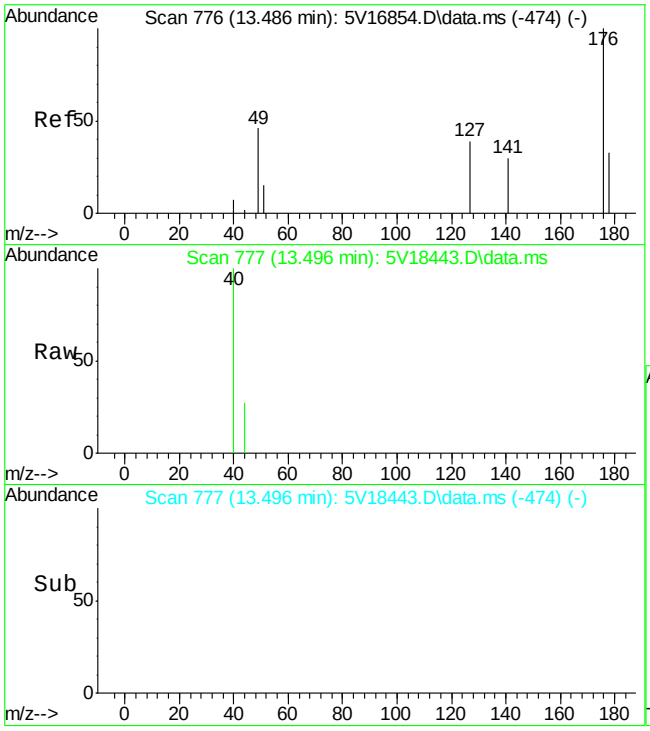
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5112311.S\
Data File : 5V18443.D
Acq On : 23 Nov 2011 10:52 am
Operator : DONC
Sample : MB, MEB112311
Misc : MS2992,V5V1103,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

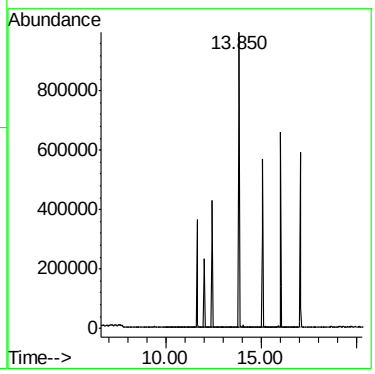
Quant Time: Nov 28 14:06:21 2011
Quant Method : C:\msdchem\1\METHODS\V5AP1092TVH1092.M
Quant Title : 8260
QLast Update : Tue Nov 01 10:41:21 2011
Response via : Initial Calibration

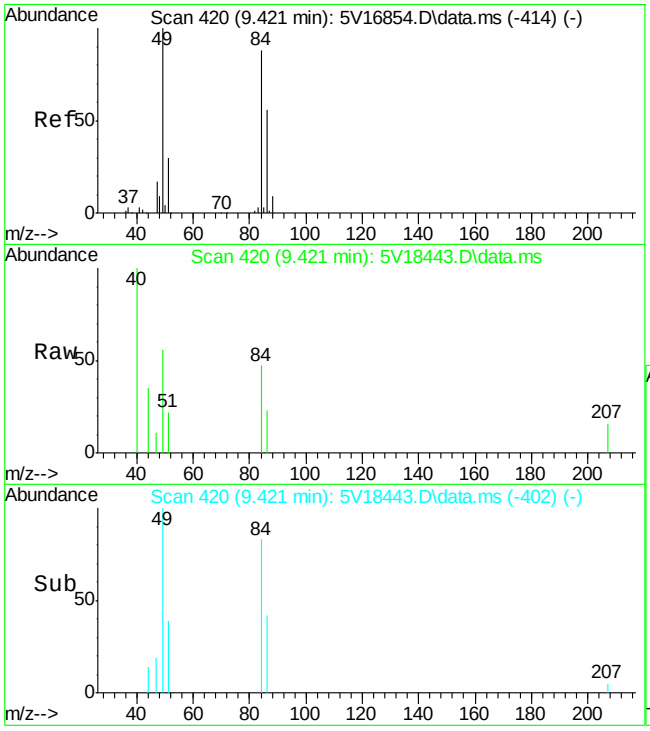




#1
TVH-Gasoline
Concen: 37.35 ug/l m
RT: 13.491 min Scan# 777
Delta R.T. 0.000 min
Lab File: 5V18443.D
Acq: 23 Nov 2011 10:52 am

Tgt Ion:TIC Resp: 12026

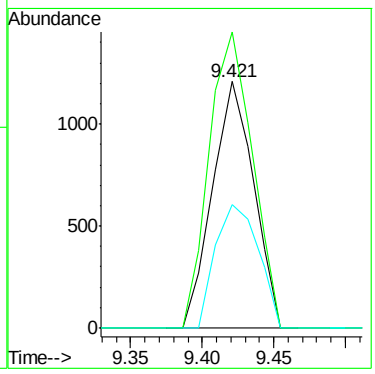


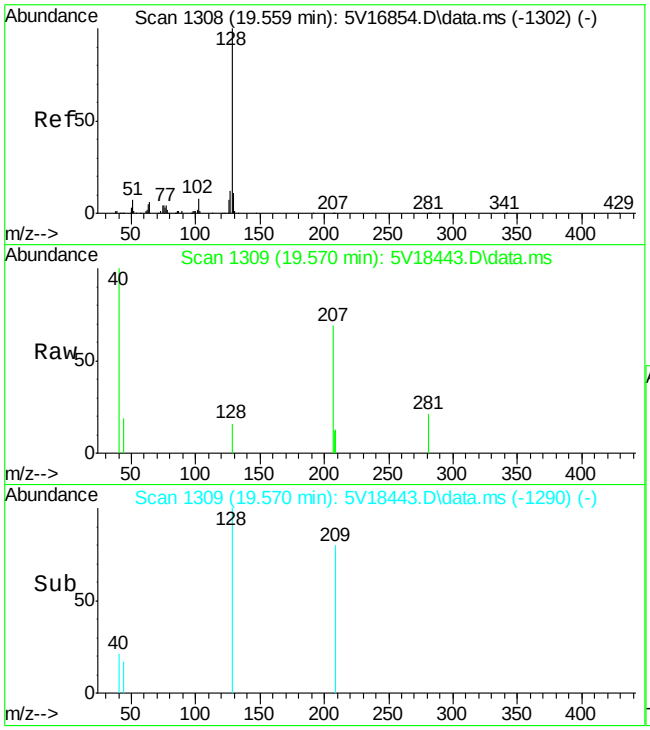


#17
Methylene Chloride
Concen: 0.69 ug/l
RT: 9.421 min Scan# 420
Delta R.T. -0.000 min
Lab File: 5V18443.D
Acq: 23 Nov 2011 10:52 am

Tgt Ion: 84 Resp: 2422

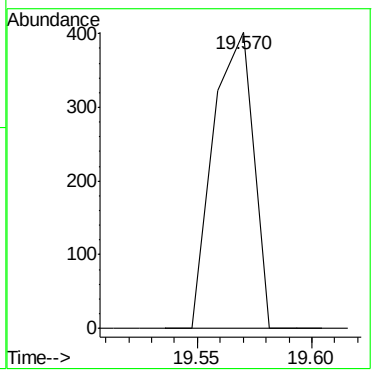
Ion	Ratio	Lower	Upper
84	100		
49	126.0	108.8	148.8
86	52.1	43.2	83.2





#91
Naphthalene
Concen: 0.69 ug/l
RT: 19.570 min Scan# 1309
Delta R.T. 0.012 min
Lab File: 5V18443.D
Acq: 23 Nov 2011 10:52 am

Tgt Ion:128 Resp: 497



Mountain States ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB795-MB	GB14007.D	1	11/22/11	SK	n/a	n/a	GGB795

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

D29703-1

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	94%	60-140%

Blank Spike Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB795-BS	GB14008.D	1	11/22/11	SK	n/a	n/a	GGB795

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

D29703-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	111	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	109%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29637-1MS	GB14010.D	1	11/22/11	SK	n/a	n/a	GGB795
D29637-1MSD	GB14011.D	1	11/22/11	SK	n/a	n/a	GGB795
D29637-1	GB14009.D	1	11/22/11	SK	n/a	n/a	GGB795

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

D29703-1

CAS No.	Compound	D29637-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		156	163	105	160	103	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D29637-1	Limits
120-82-1	1,2,4-Trichlorobenzene	115%	106%	94%	60-140%

Mountain States ACCUTEST LABORATORIES

GC Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Judy Melson 11/23/11 11:18

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112211\GB14020.D\FID1A.CH Vial: 16
Signal #2 : Y:\1\DATA\112211\GB14020.D\FID2B.CH
Acq On : 22 Nov 2011 8:35 pm Operator: StephK
Sample : D29703-1, 50X Inst : GC/MS Ins
Misc : GC2429,GGB795,5.021,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 23 08:25:14 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 15:22:25 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	14.38	3303874	112.933	%	m
10) S	1,2,4-Trichlorobenzene (P)	14.38	23804958	103.572	%	m
	Target Compounds					
1) H	TVH-Gasoline	7.32	18355311	0.258	mg/L	
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L	d
5) T	Benzene	4.16	101718	0.178	ug/L	
6) T	Toluene	7.68	450107	0.794	ug/L	
7) T	Ethylbenzene	10.30	184539	0.379	ug/L	
8) T	m,p-Xylene	10.49	1940252	3.047	ug/L	
9) T	o-Xylene	10.98	489536	0.762	ug/L	
11) T	Naphthalene	14.57	4051486	15.740	ug/L	m

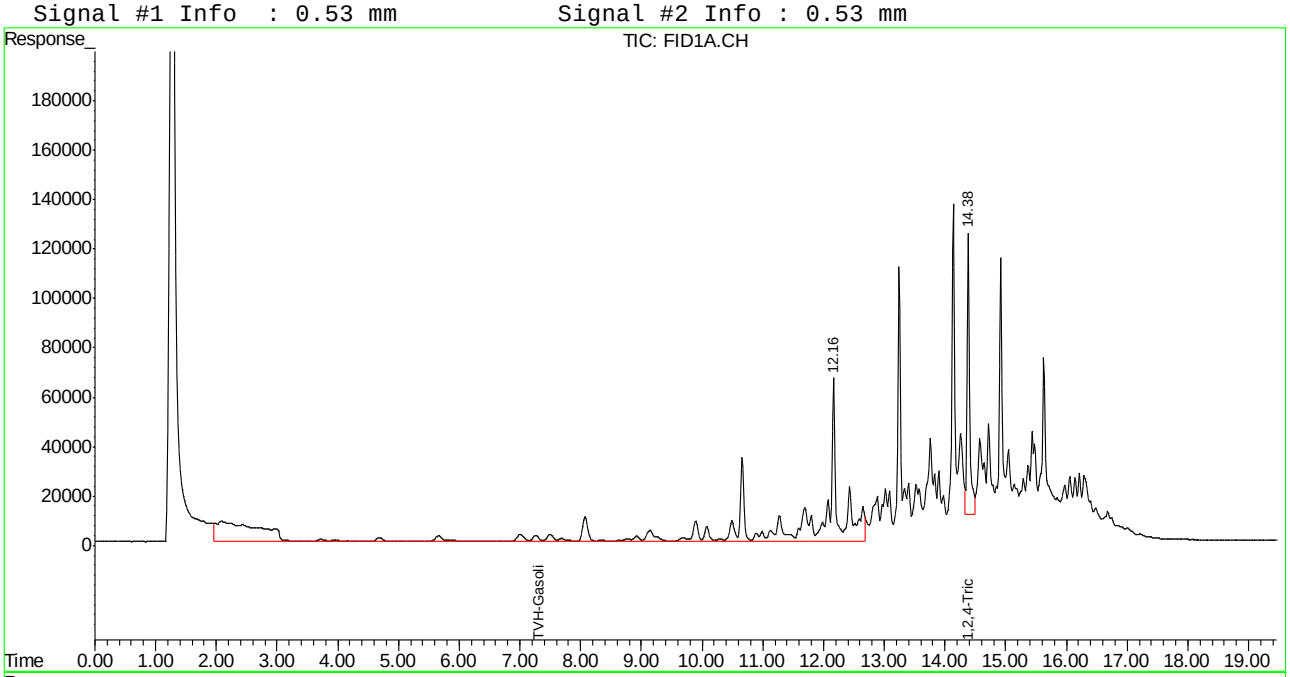
(f)=RT Delta > 1/2 Window (m)=manual int.

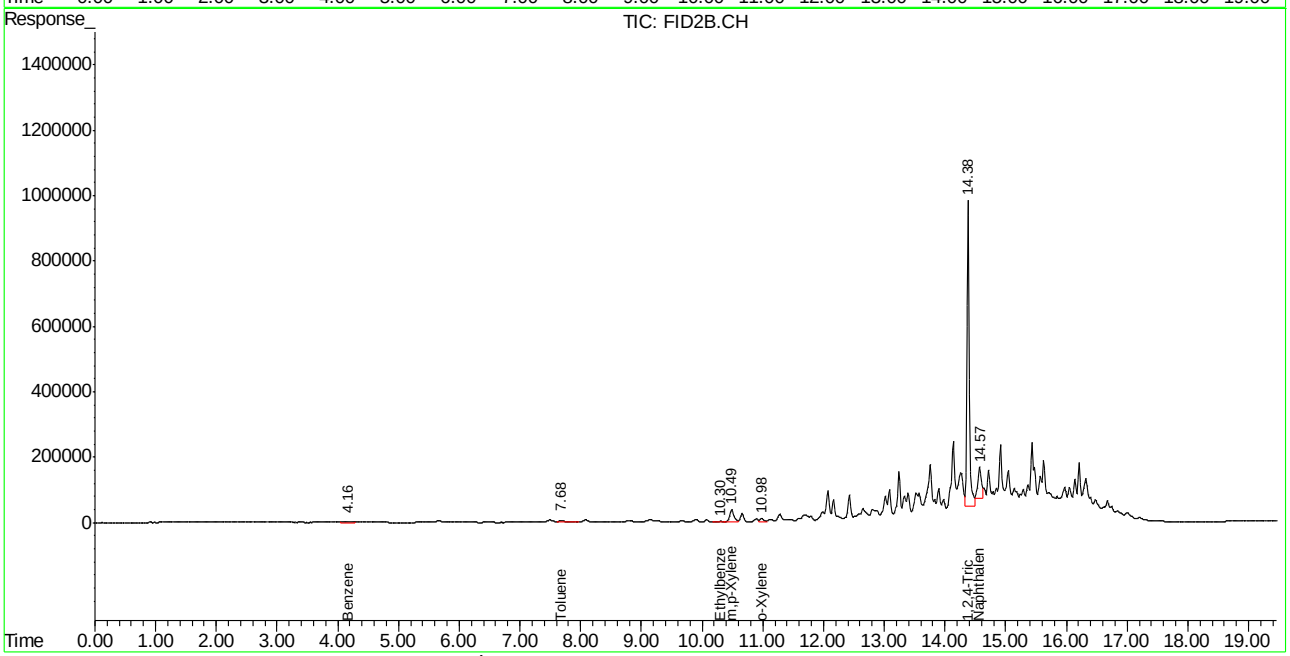
Quantitation Report (QT Reviewed)

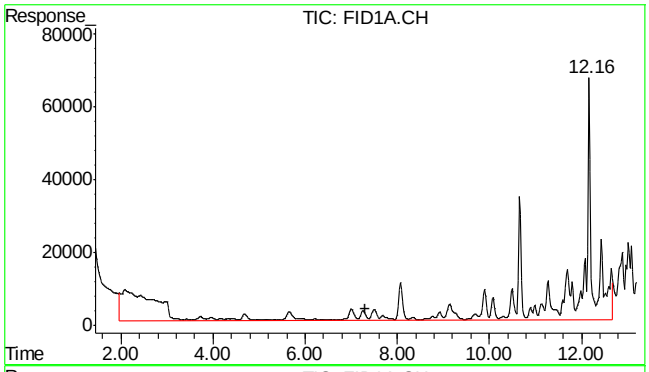
Signal #1 : Y:\1\DATA\112211\GB14020.D\FID1A.CH Vial: 16
Signal #2 : Y:\1\DATA\112211\GB14020.D\FID2B.CH
Acq On : 22 Nov 2011 8:35 pm Operator: StephK
Sample : D29703-1, 50X Inst : GC/MS Ins
Misc : GC2429,GGB795,5.021,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 23 8:30 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 15:22:25 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

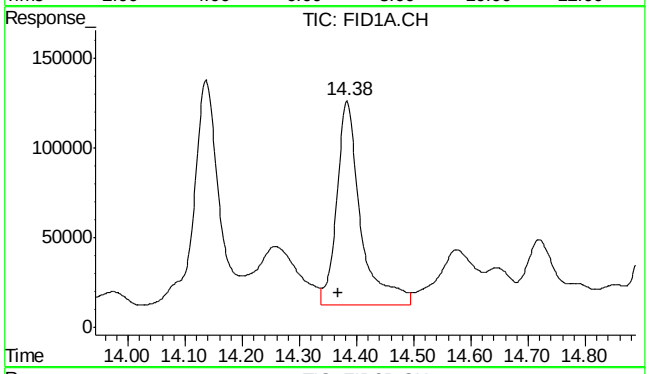






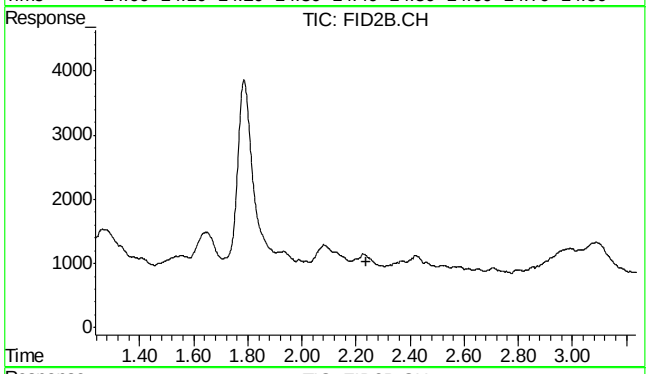
#1 TVH-Gasoline

R.T.: 7.315 min
Delta R.T.: 0.000 min
Response: 18355311
Conc: 0.26 mg/L m



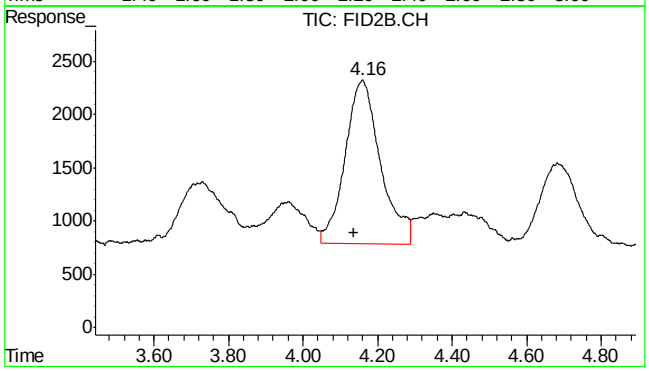
#2 1,2,4-Trichlorobenzene

R.T.: 14.383 min
Delta R.T.: 0.015 min
Response: 3303874
Conc: 112.93 % m



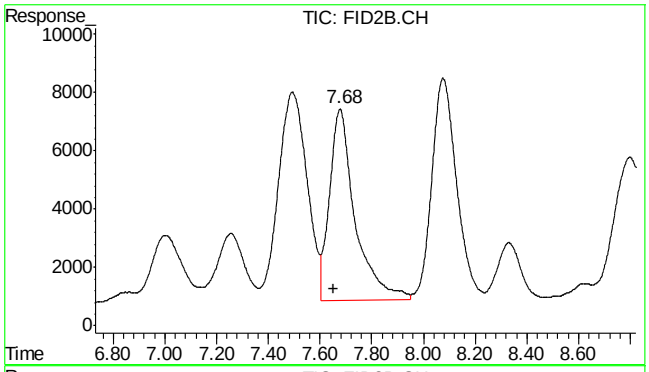
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T. : 2.236 min
Response: 0
Conc: N.D.



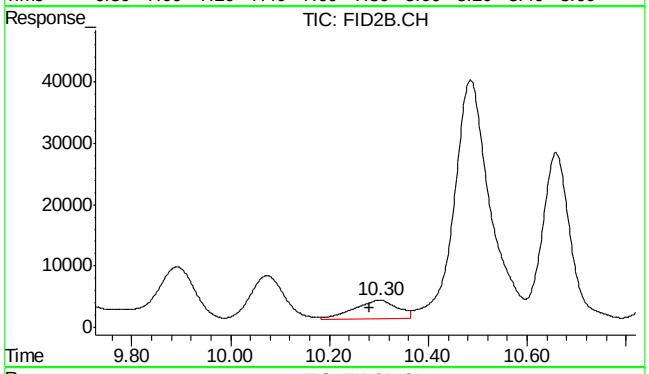
#5 Benzene

R.T.: 4.161 min
Delta R.T.: 0.024 min
Response: 101718
Conc: 0.18 ug/L



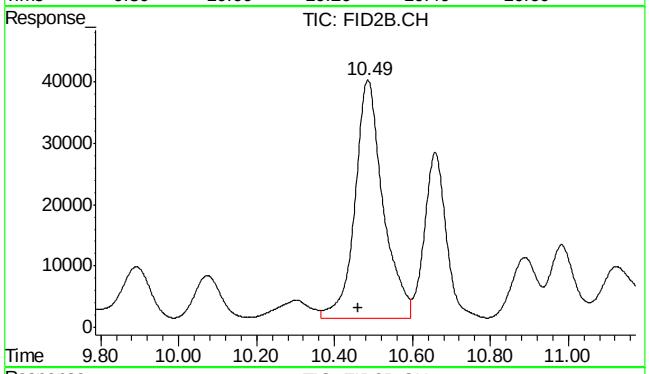
#6 Toluene

R.T.: 7.678 min
Delta R.T.: 0.026 min
Response: 450107
Conc: 0.79 ug/L



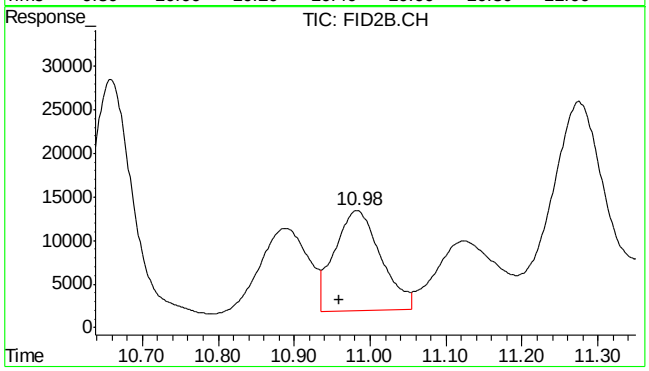
#7 Ethylbenzene

R.T.: 10.301 min
Delta R.T.: 0.019 min
Response: 184539
Conc: 0.38 ug/L



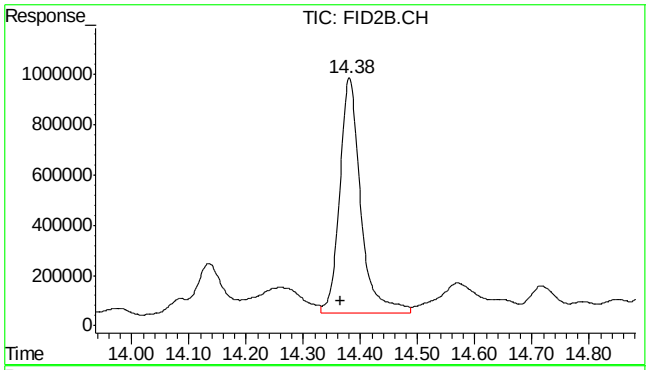
#8 m,p-Xylene

R.T.: 10.486 min
Delta R.T.: 0.023 min
Response: 1940252
Conc: 3.05 ug/L



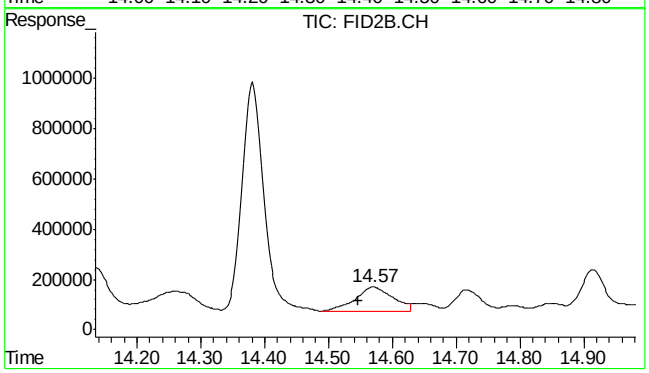
#9 o-Xylene

R.T.: 10.983 min
Delta R.T.: 0.023 min
Response: 489536
Conc: 0.76 ug/L



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

R.T.: 14.380 min
Delta R.T.: 0.015 min
Response: 23804958
Conc: 103.57 % m



#11 Naphthalene

R.T.: 14.569 min
Delta R.T.: 0.023 min
Response: 4051486
Conc: 15.74 ug/L m

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112211\GB14007.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\112211\GB14007.D\FID2B.CH
Acq On : 22 Nov 2011 12:50 pm Operator: StephK
Sample : MB, S Inst : GC/MS Ins
Misc : GC2429,GGB795,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 22 12:24:16 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 12:24:05 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	14.37	2750699	94.024	%	
10) S	1,2,4-Trichlorobenzene (P)	14.37	22444341	97.652	%	
	Target Compounds					
1) H	TVH-Gasoline	7.32	5422787	<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	182365	0.322	ug/L	
7) T	Ethylbenzene	10.29	90648	0.186	ug/L	
8) T	m,p-Xylene	10.47	328746	0.151	ug/L	
9) T	o-Xylene	10.97	181135	<MDL	ug/L	m
11) T	Naphthalene	14.55	492714	1.914	ug/L	m

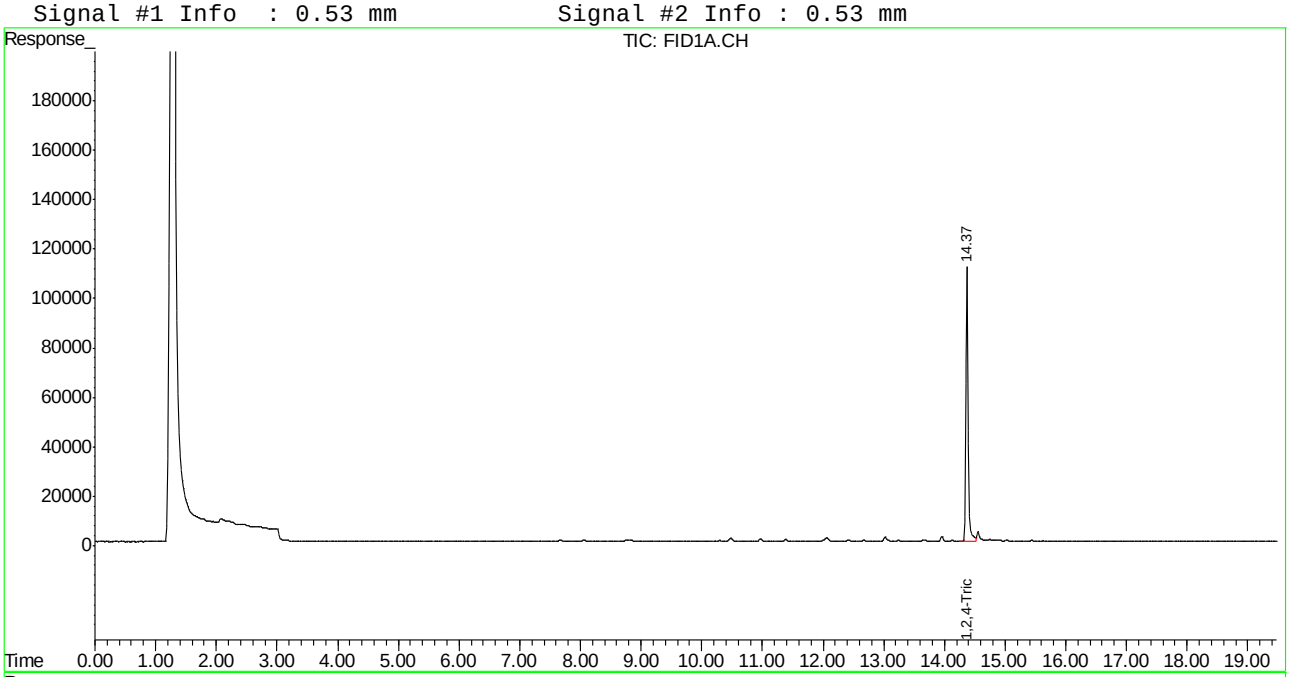
(f)=RT Delta > 1/2 Window (m)=manual int.
GB14007.D TB791GB791SOIL.M Wed Nov 23 08:52:25 2011 GC Page 1

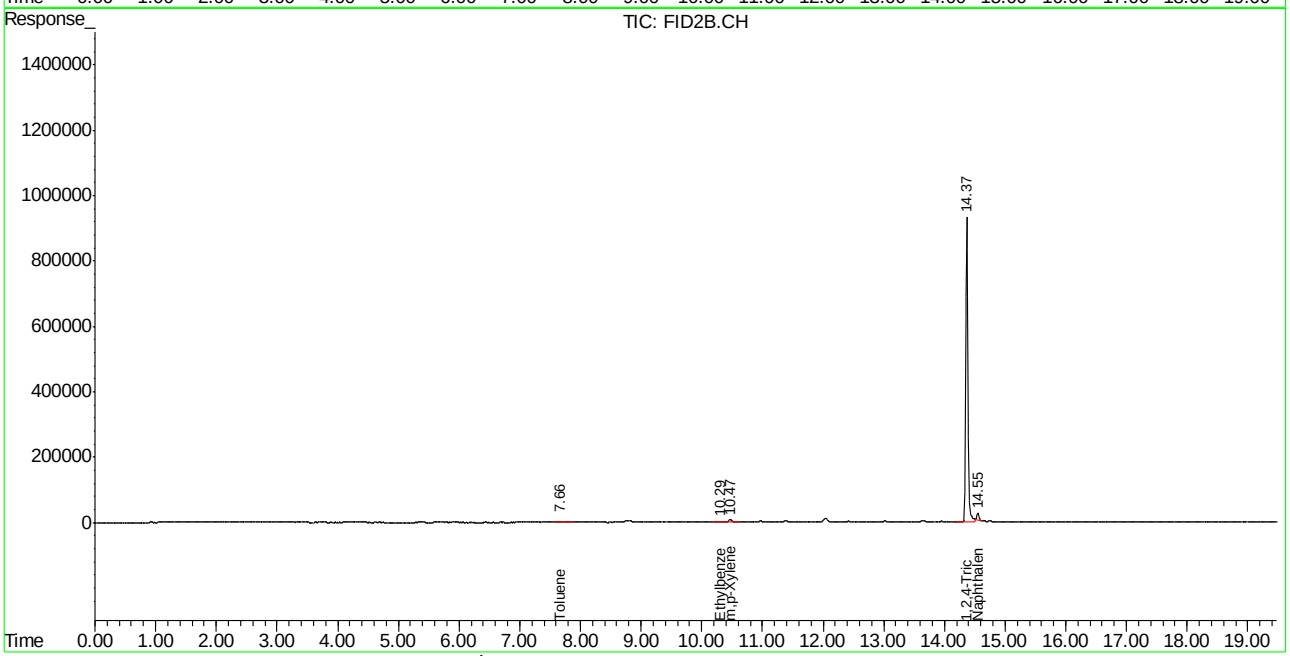
Quantitation Report (QT Reviewed)

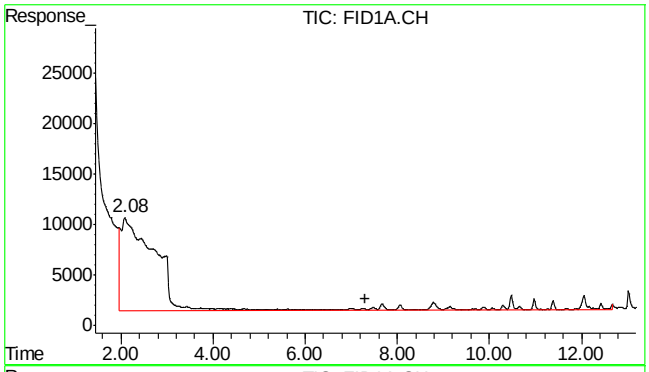
Signal #1 : Y:\1\DATA\112211\GB14007.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\112211\GB14007.D\FID2B.CH
Acq On : 22 Nov 2011 12:50 pm Operator: StephK
Sample : MB, S Inst : GC/MS Ins
Misc : GC2429,GGB795,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 22 12:24 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 12:24:05 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

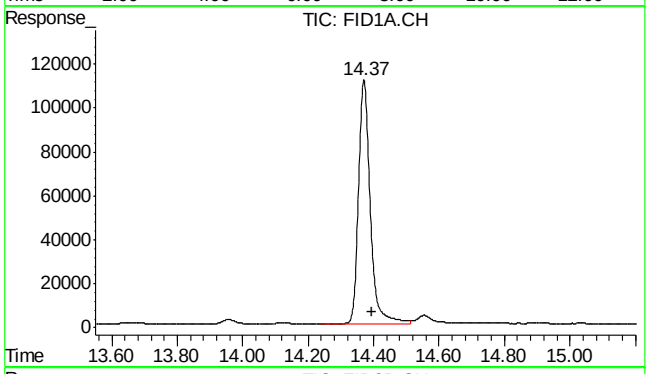






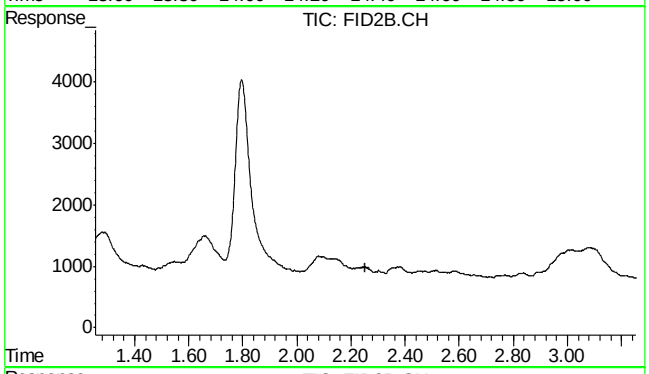
#1 TVH-Gasoline

R.T.: 7.315 min
Delta R.T.: 0.000 min
Response: 5422787
Conc: N.D.



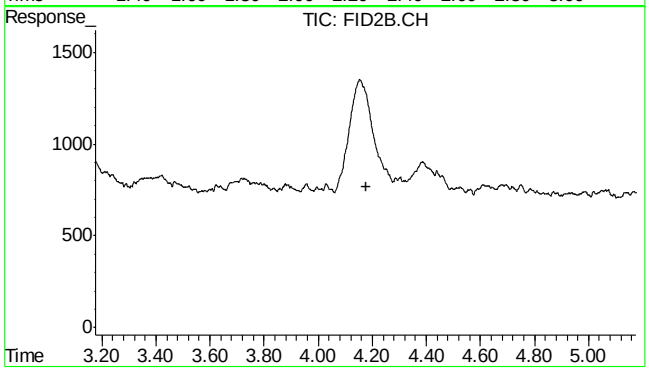
#2 1,2,4-Trichlorobenzene

R.T.: 14.371 min
Delta R.T.: -0.022 min
Response: 2750699
Conc: 94.02 %



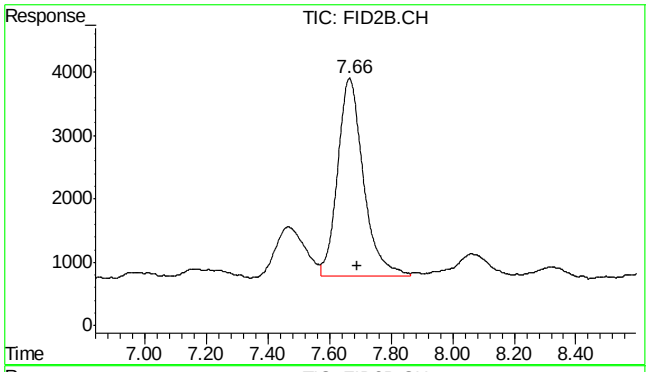
#4 Methyl-t-butyl-ether

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



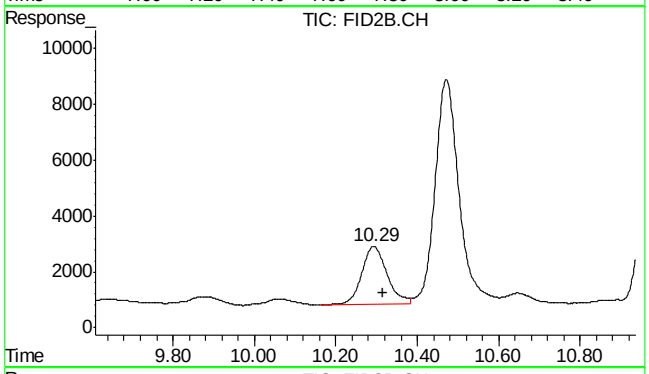
#5 Benzene

R.T.: 0.000 min
Exp R.T. : 4.176 min
Response: 0
Conc: N.D.



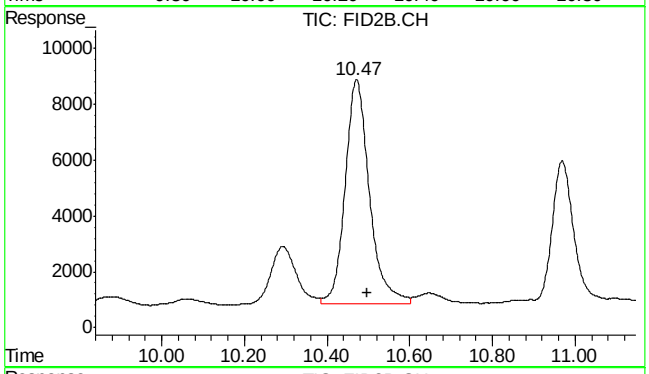
#6 Toluene

R.T.: 7.665 min
Delta R.T.: -0.026 min
Response: 182365
Conc: 0.32 ug/L



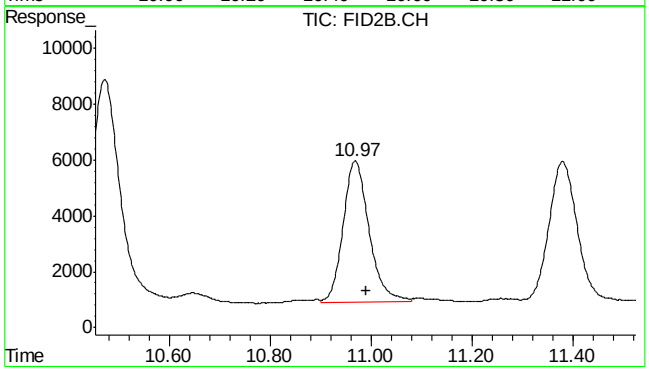
#7 Ethylbenzene

R.T.: 10.293 min
Delta R.T.: -0.024 min
Response: 90648
Conc: 0.19 ug/L



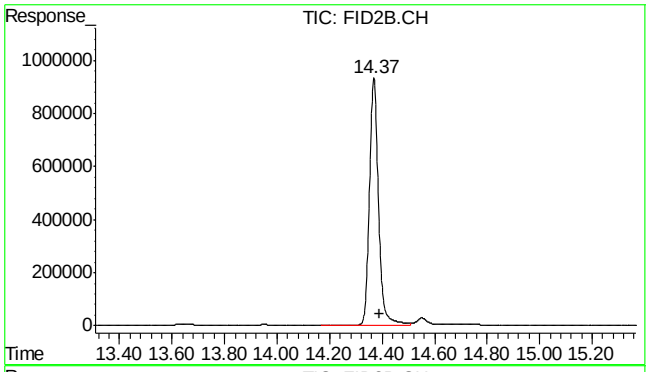
#8 m,p-Xylene

R.T.: 10.472 min
Delta R.T.: -0.025 min
Response: 328746
Conc: 0.15 ug/L



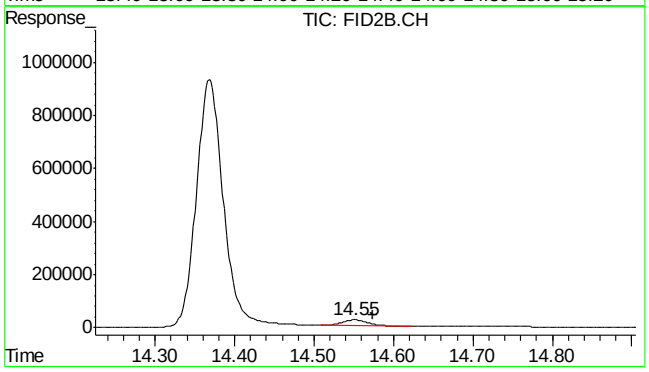
#9 o-Xylene

R.T.: 10.969 min
Delta R.T.: -0.022 min
Response: 181135
Conc: N.D.



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

R.T.:	14.369 min
Delta R.T.:	-0.023 min
Response:	22444341
Conc:	97.65 %



#11 Naphthalene

R.T.:	14.550 min
Delta R.T.:	-0.023 min
Response:	492714
Conc:	1.91 ug/L m

8.2.1

8

Mountain States ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4897-MB	FI04566.D	1	11/23/11	CS	11/22/11	OP4897	GFI336

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

D29703-1

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	125%	61-142%

Blank Spike Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4897-BS	FI04567.D	1	11/23/11	CS	11/22/11	OP4897	GFI336

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

D29703-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	606	91	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	125%	61-142%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29703
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4897-MS	FI04568.D	1	11/23/11	CS	11/22/11	OP4897	GFI336
OP4897-MSD	FI04569.D	1	11/23/11	CS	11/22/11	OP4897	GFI336
D29662-1	FI04570.D	1	11/23/11	CS	11/22/11	OP4897	GFI336

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

D29703-1

CAS No.	Compound	D29662-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	132		902	737	67	764	70	4	24-157/35

CAS No.	Surrogate Recoveries	MS	MSD	D29662-1	Limits
84-15-1	o-Terphenyl	74%	93%	70%	61-142%

Mountain States ACCUTEST LABORATORIES

GC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Judy Melson 11/29/11 14:15

Quantitation Report (QT Reviewed)

Data File : E:\DATA\FI112211\FI04573.D Vial: 28
Acq On : 23 Nov 2011 5:26 am Operator: CHAVALIT
Sample : D29703-1 Inst : FID6
Misc : OP4897,GFI336,30.06,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 13:36:03 2011 Quant Results File: DF-GFI308.RES

Quant Method : C:\MSDCHEM\1\METHODS\DF-GFI308.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Mon Nov 14 09:02:05 2011
Response via : Initial Calibration
DataAcq Meth : FR_BASE2.M

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

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1) S	O-Terphenyl	13.57	35267143	633.856	mg/L	m
	Target Compounds					
2) H	TPH-DRO (c10-c28)	11.79	456244114	6930.936	mg/L	

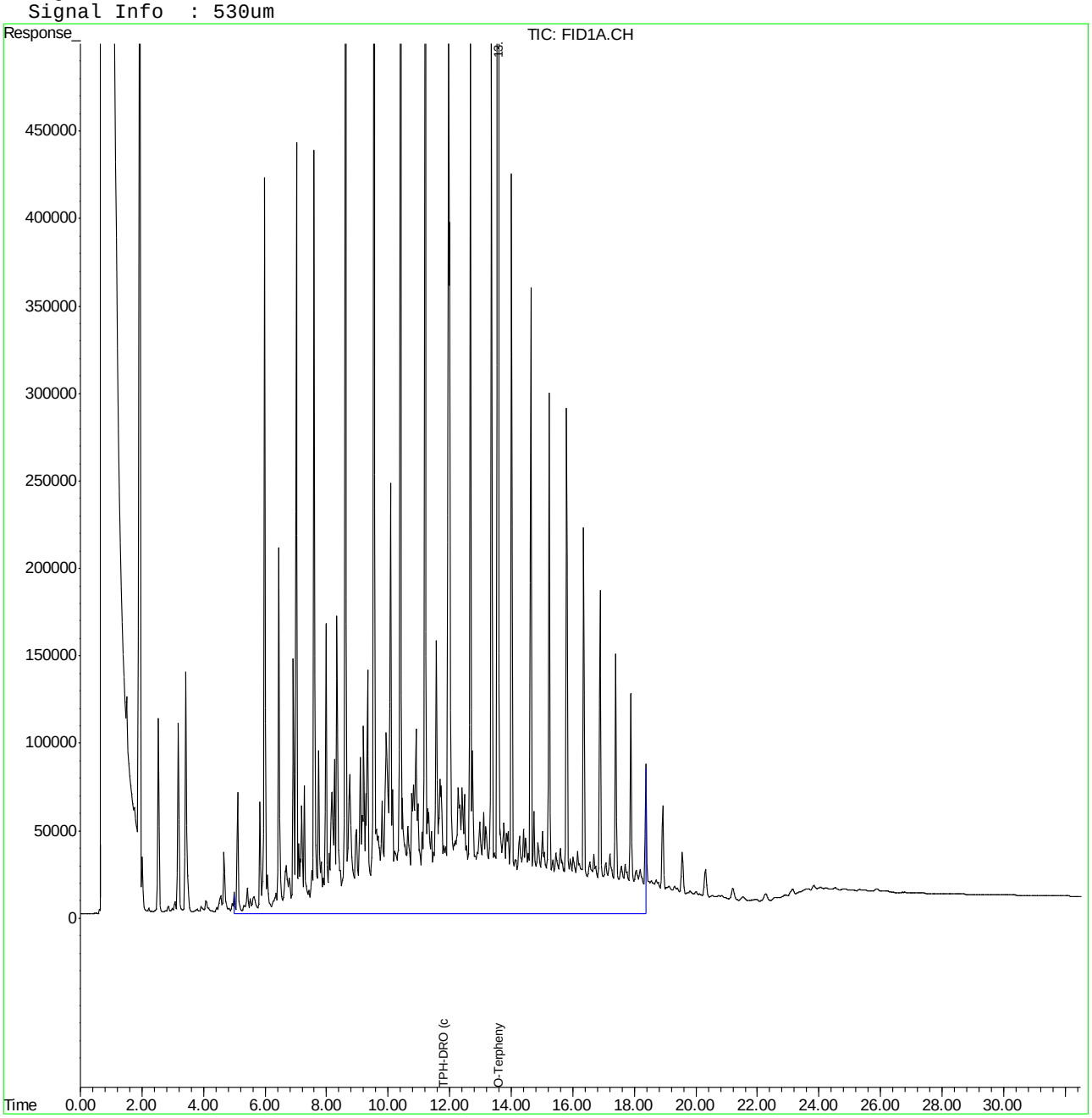
(f)=RT Delta > 1/2 Window (m)=manual int.

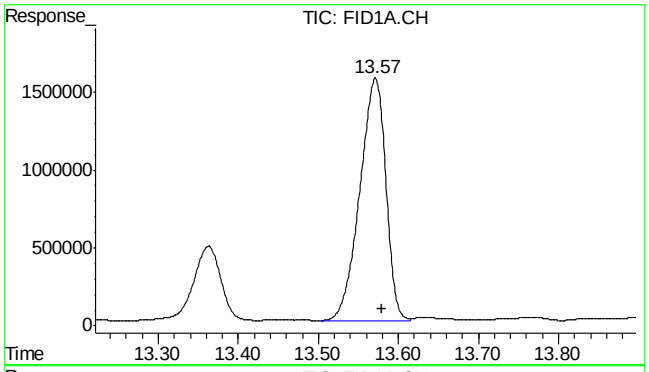
Quantitation Report (QT Reviewed)

Data File : E:\DATA\FI112211\FI04573.D Vial: 28
Acq On : 23 Nov 2011 5:26 am Operator: CHAVALIT
Sample : D29703-1 Inst : FID6
Misc : OP4897,GFI336,30.06,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 13:39 2011 Quant Results File: DF-GFI308.RES

Quant Method : C:\MSDCHEM\1\METHODS\DF-GFI308.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Mon Nov 14 09:02:05 2011
Response via : Multiple Level Calibration
DataAcq Meth : FR_BASE2.M

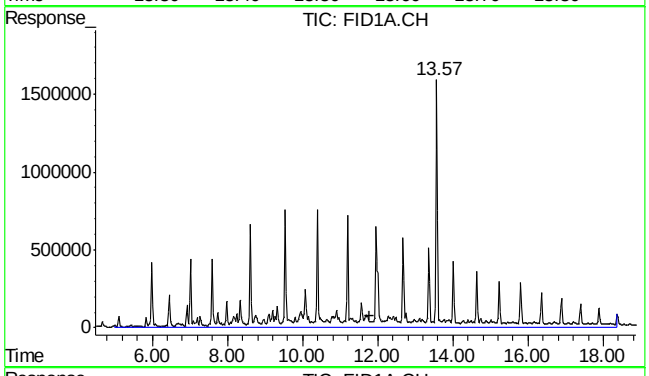
Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





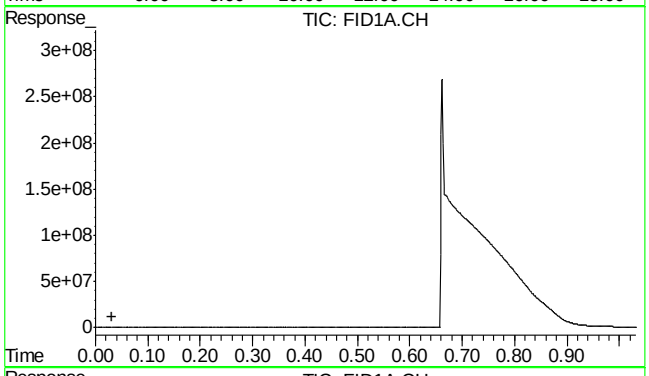
#1 O-Terphenyl

R.T.: 13.570 min
Delta R.T.: -0.010 min
Response: 35267143
Conc: 633.86 mg/L m



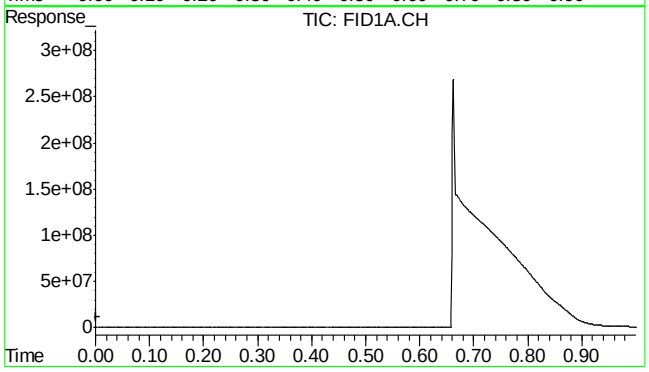
#2 TPH-DRO (c10-c28)

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 456244114
Conc: 6930.94 mg/L m



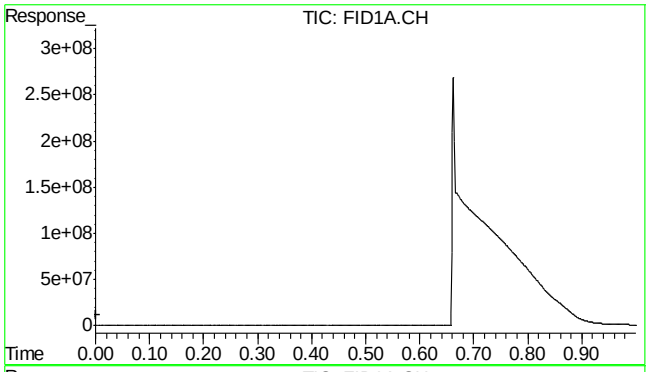
#9 5a-Androstane

R.T.: 0.000 min
Exp R.T. : 0.032 min
Response: 0
Conc: N.D.



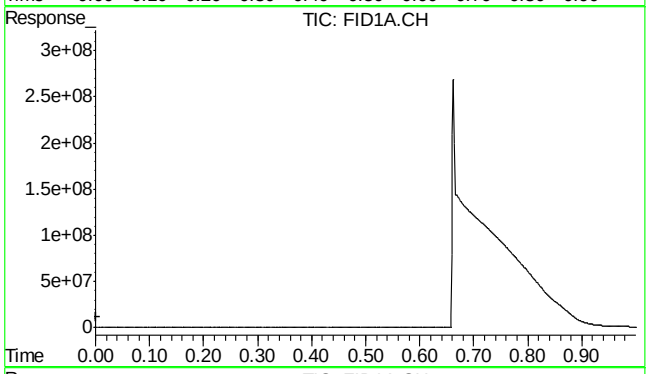
#10 2-Fluorophenol

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



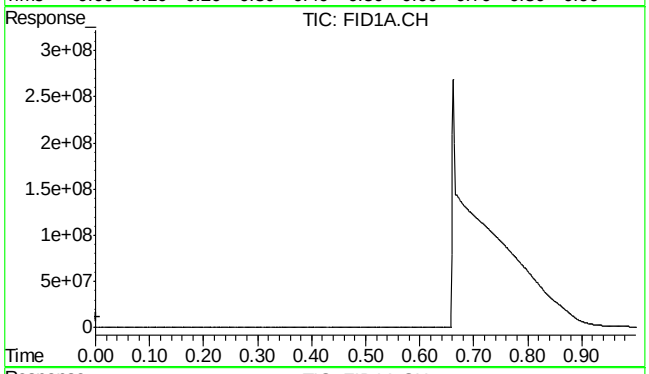
#11 Phenol-d5

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



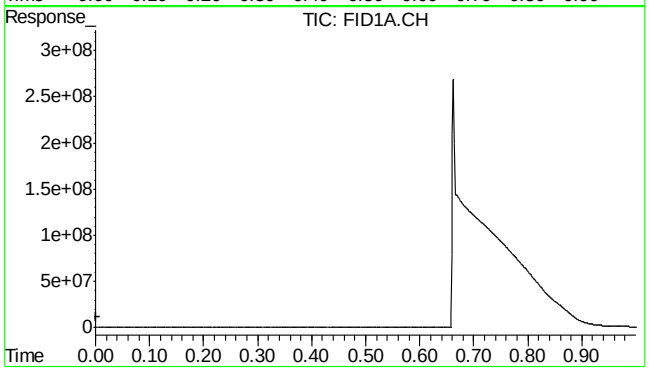
#12 Nitrobenzene-d5

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



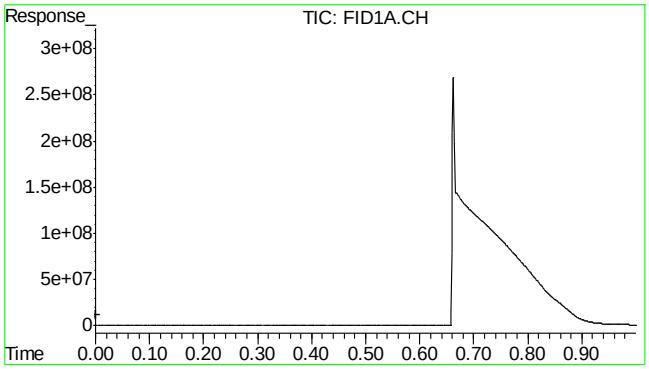
#13 2-Fluorobiphenyl

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



#14 2,4,6-Tribromophenol

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



#15 Terphenyl-d14

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

Manual Integrations APPROVED (compounds with "m" flag)
Judy Melson 11/29/11 14:15

Quantitation Report (QT Reviewed)

Data File : E:\DATA\FI112211\FI04566.D Vial: 21
Acq On : 23 Nov 2011 12:48 am Operator: CHAVALIT
Sample : OP4897-MB Inst : FID6
Misc : OP4897,GFI336,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 13:30:32 2011 Quant Results File: DF-GFI308.RES

Quant Method : C:\MSDCHEM\1\METHODS\DF-GFI308.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Mon Nov 14 09:02:05 2011
Response via : Initial Calibration
DataAcq Meth : FR_BASE2.M

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

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1) S	O-Terphenyl	13.58	69390713	1247.158	mg/L	m
	Target Compounds					
2) H	TPH-DRO (c10-c28)	11.79	19759235	61.422	mg/L	

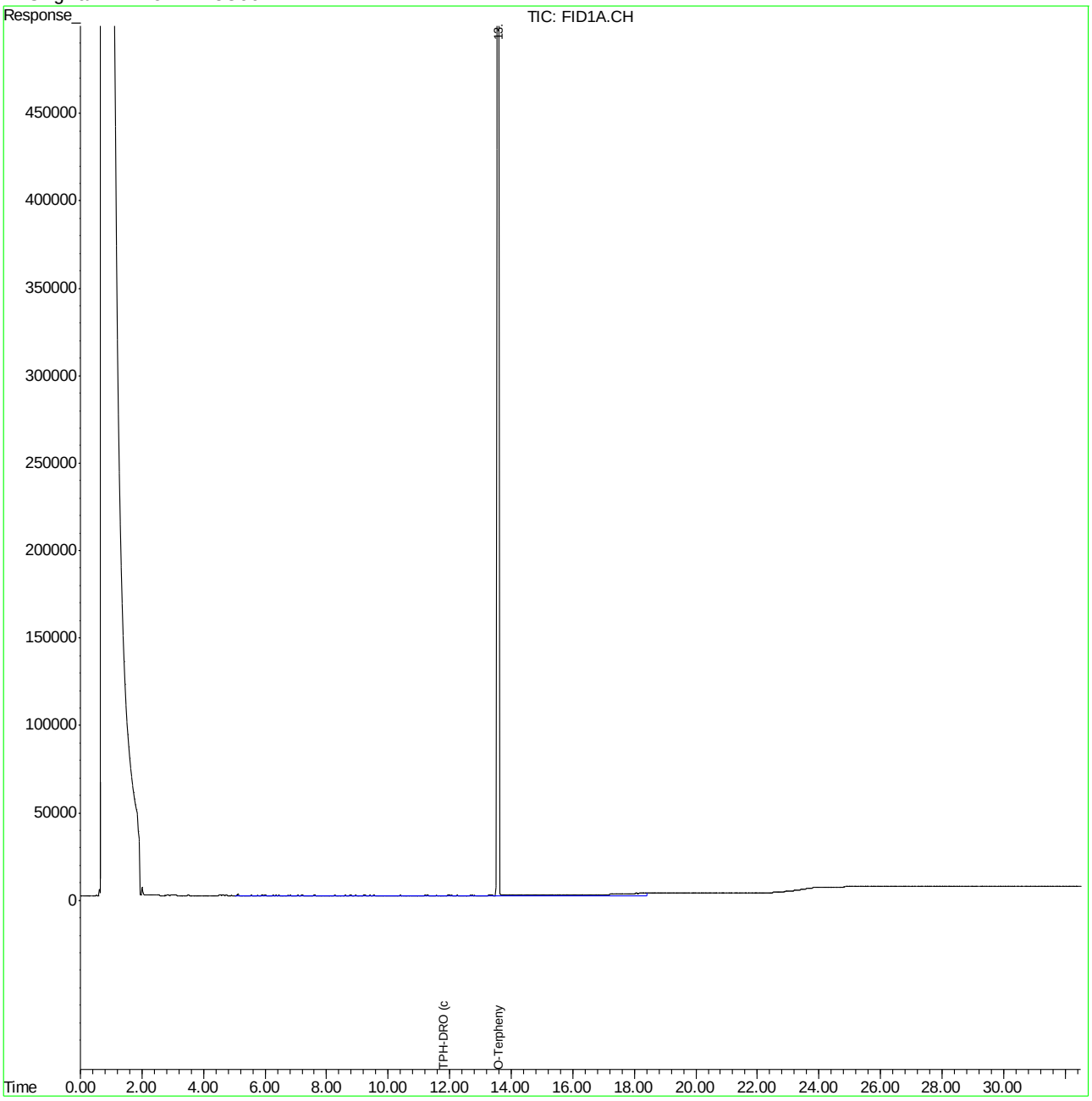
(f)=RT Delta > 1/2 Window (m)=manual int.

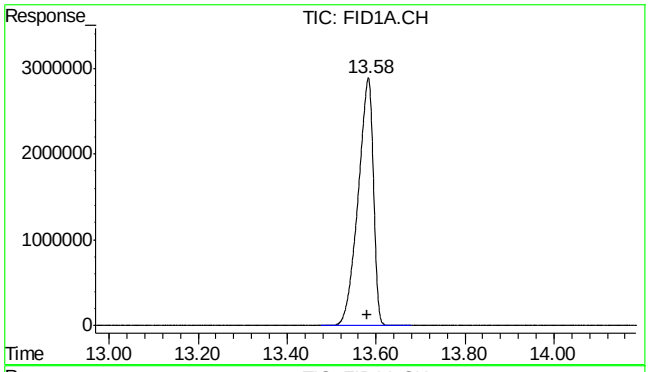
Quantitation Report (QT Reviewed)

Data File : E:\DATA\FI112211\FI04566.D Vial: 21
Acq On : 23 Nov 2011 12:48 am Operator: CHAVALIT
Sample : OP4897-MB Inst : FID6
Misc : OP4897,GFI336,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 13:58 2011 Quant Results File: DF-GFI308.RES

Quant Method : C:\MSDCHEM\1\METHODS\DF-GFI308.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Mon Nov 14 09:02:05 2011
Response via : Multiple Level Calibration
DataAcq Meth : FR_BASE2.M

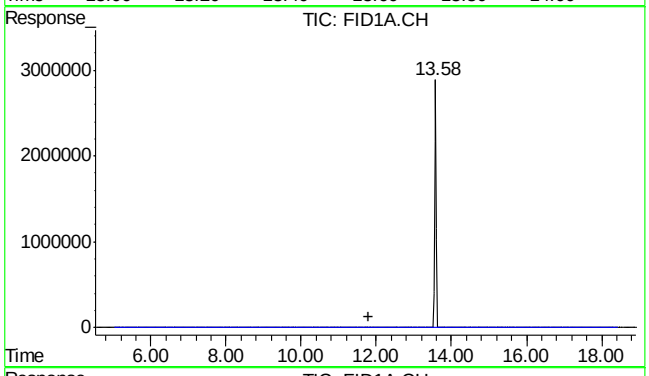
Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





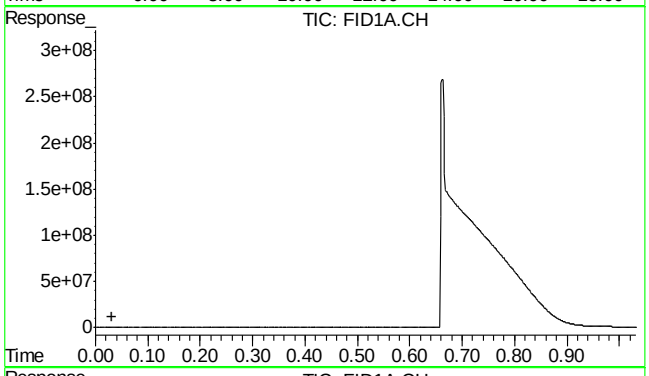
#1 O-Terphenyl

R.T.: 13.583 min
Delta R.T.: 0.003 min
Response: 69390713
Conc: 1247.16 mg/L m



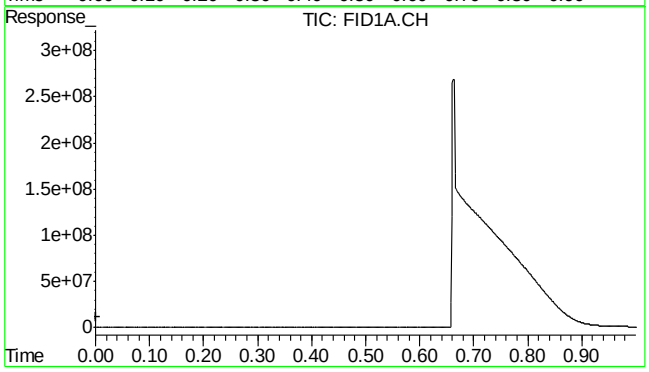
#2 TPH-DRO (c10-c28)

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 19759235
Conc: 61.42 mg/L m



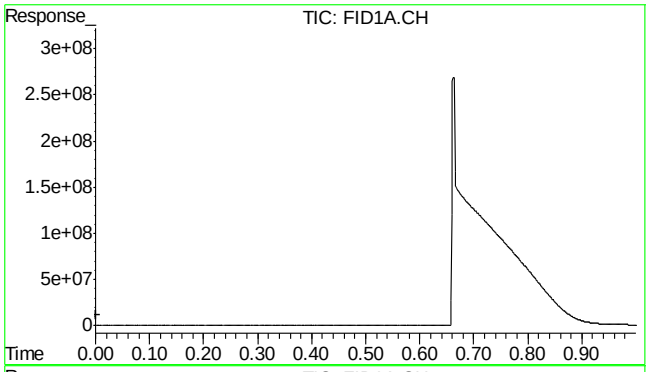
#9 5a-Androstane

R.T.: 0.000 min
Exp R.T. : 0.032 min
Response: 0
Conc: N.D.



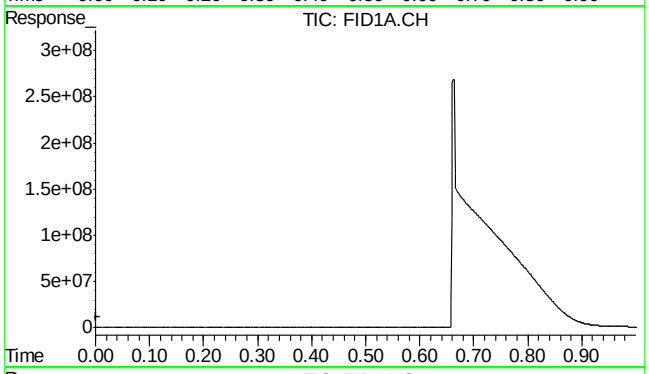
#10 2-Fluorophenol

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



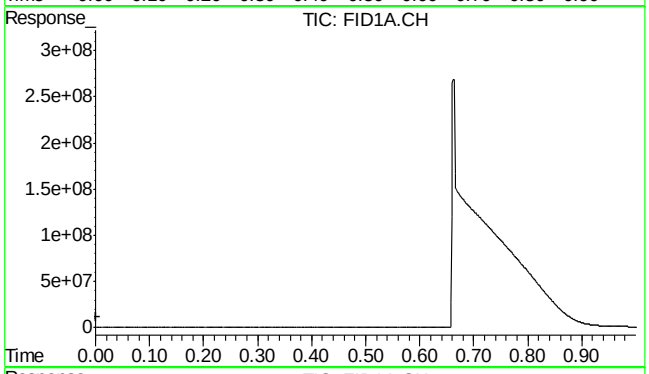
#11 Phenol-d5

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



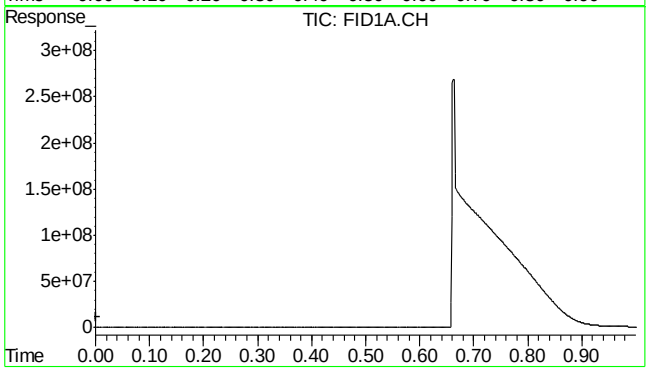
#12 Nitrobenzene-d5

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



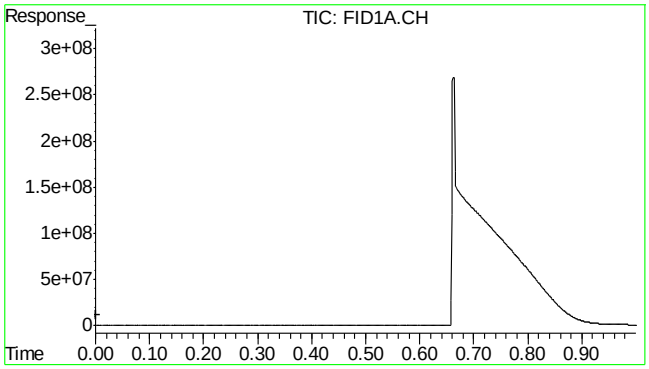
#13 2-Fluorobiphenyl

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



#14 2,4,6-Tribromophenol

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



#15 Terphenyl-d14

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