



06/11/12

Technical Report for

XTO Energy

FRU 297-17A

1108-13A

Accutest Job Number: D35038

Sampling Date: 06/01/12

Report to:

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Total number of pages in report: 128



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.


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Laboratory Director

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

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Test results relate only to samples analyzed.

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Sample Summary

XTO Energy

Job No: D35038

FRU 297-17A

Project No: 1108-13A

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
D35038-1	06/01/12	10:40 DS	06/02/12	SO	Soil	CUT 1&2 MB DAY 1 (5/30)
D35038-2	06/01/12	10:50 DS	06/02/12	SO	Soil	CUT 1&2 MB DAY 2 (5/31)
D35038-3	06/01/12	11:00 DS	06/02/12	SO	Soil	CUT 1&2 MB DAY 3 (6/1)

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



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: XTO Energy

Job No D35038

Site: FRU 297-17A

Report Date 6/11/2012 10:15:22 AM

On 06/02/2012, 3 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3.8 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D35038 was assigned to the project. The lab sample IDs, client sample IDs, 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: V5V1323

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D35038-3MS, D35038-3MSD were used as the QC samples indicated.
- Sample(s) D35038-3MSD have surrogates outside control limits. Probable cause due to matrix interference.
- D35038-3MSD for 4-Bromofluorobenzene: Outside control limits due to possible matrix interference.

Volatiles by GC By Method SW846 8015B

Matrix SO

Batch ID: GGB903

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D35033-2MS, D35033-2MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO

Batch ID: OP6010

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D35039-1MS, D35039-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO

Batch ID: GN15246

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

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

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

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

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	CUT 1&2 MB DAY 1 (5/30)	
Lab Sample ID:	D35038-1	Date Sampled: 06/01/12
Matrix:	SO - Soil	Date Received: 06/02/12
Method:	SW846 8260B	Percent Solids: 88.6
Project:	FRU 297-17A	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V21712.D	1	06/04/12	BD	n/a	n/a	V5V1323
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0279	0.063	0.024	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		61-130%
460-00-4	4-Bromofluorobenzene	105%		53-131%
17060-07-0	1,2-Dichloroethane-D4	94%		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:	CUT 1&2 MB DAY 1 (5/30)	
Lab Sample ID:	D35038-1	Date Sampled: 06/01/12
Matrix:	SO - Soil	Date Received: 06/02/12
Method:	SW846 8015B	Percent Solids: 88.6
Project:	FRU 297-17A	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16226.D	1	06/05/12	SK	n/a	n/a	GGB903
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)	9.87	13	6.3	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	88%		60-140%		

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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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:	CUT 1&2 MB DAY 1 (5/30)	
Lab Sample ID:	D35038-1	Date Sampled: 06/01/12
Matrix:	SO - Soil	Date Received: 06/02/12
Method:	SW846-8015B SW846 3546	Percent Solids: 88.6
Project:	FRU 297-17A	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH005175.D	1	06/08/12	AV	06/06/12	OP6010	GFH285
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	591	15	9.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	78%		43-136%		

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 1

Client Sample ID:	CUT 1&2 MB DAY 2 (5/31)	
Lab Sample ID:	D35038-2	Date Sampled: 06/01/12
Matrix:	SO - Soil	Date Received: 06/02/12
Method:	SW846 8260B	Percent Solids: 87.4
Project:	FRU 297-17A	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V21711.D	1	06/04/12	BD	n/a	n/a	V5V1323
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0465	0.064	0.024	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		61-130%
460-00-4	4-Bromofluorobenzene	108%		53-131%
17060-07-0	1,2-Dichloroethane-D4	99%		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

Page 1 of 1

Client Sample ID:	CUT 1&2 MB DAY 2 (5/31)	
Lab Sample ID:	D35038-2	Date Sampled: 06/01/12
Matrix:	SO - Soil	Date Received: 06/02/12
Method:	SW846 8015B	Percent Solids: 87.4
Project:	FRU 297-17A	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16227.D	1	06/05/12	SK	n/a	n/a	GGB903
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)	11.8	13	6.4	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	85%		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:	CUT 1&2 MB DAY 2 (5/31)	
Lab Sample ID:	D35038-2	Date Sampled: 06/01/12
Matrix:	SO - Soil	Date Received: 06/02/12
Method:	SW846-8015B SW846 3546	Percent Solids: 87.4
Project:	FRU 297-17A	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH005177.D	1	06/08/12	AV	06/06/12	OP6010	GFH285
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)	182	15	9.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	80%		43-136%		

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	CUT 1&2 MB DAY 3 (6/1)	
Lab Sample ID:	D35038-3	Date Sampled: 06/01/12
Matrix:	SO - Soil	Date Received: 06/02/12
Method:	SW846 8260B	Percent Solids: 86.7
Project:	FRU 297-17A	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V21708.D	1	06/04/12	BD	n/a	n/a	V5V1323
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0321	0.065	0.025	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		61-130%
460-00-4	4-Bromofluorobenzene	98%		53-131%
17060-07-0	1,2-Dichloroethane-D4	93%		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

Page 1 of 1

Client Sample ID:	CUT 1&2 MB DAY 3 (6/1)	
Lab Sample ID:	D35038-3	Date Sampled: 06/01/12
Matrix:	SO - Soil	Date Received: 06/02/12
Method:	SW846 8015B	Percent Solids: 86.7
Project:	FRU 297-17A	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16228.D	1	06/06/12	SK	n/a	n/a	GGB903
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)	12.9	13	6.5	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	85%		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:	CUT 1&2 MB DAY 3 (6/1)	
Lab Sample ID:	D35038-3	Date Sampled: 06/01/12
Matrix:	SO - Soil	Date Received: 06/02/12
Method:	SW846-8015B SW846 3546	Percent Solids: 86.7
Project:	FRU 297-17A	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH005181.D	1	06/08/12	AV	06/06/12	OP6010	GFH285
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	192	15	10	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		43-136%		

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D35038

Client: KRW CONSULTING, INC

Immediate Client Services Action Required: No

Date / Time Received: 6/2/2012 9:15:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project: XTO PCU 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

5

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: D35038
Account: XTOKRWR XTO Energy
Project: FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V1323-MB	5V21706.D	1	06/04/12	BD	n/a	n/a	V5V1323

The QC reported here applies to the following samples:

Method: SW846 8260B

D35038-1, D35038-2, D35038-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	19	ug/kg	

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	97% 61-130%
460-00-4	4-Bromofluorobenzene	95% 53-131%
17060-07-0	1,2-Dichloroethane-D4	99% 62-130%

Blank Spike Summary

Page 1 of 1

Job Number: D35038
Account: XTOKRWR XTO Energy
Project: FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V1323-BS	5V21707.D	1	06/04/12	BD	n/a	n/a	V5V1323

The QC reported here applies to the following samples:

Method: SW846 8260B

D35038-1, D35038-2, D35038-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	46.8	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	100%	61-130%
460-00-4	4-Bromofluorobenzene	110%	53-131%
17060-07-0	1,2-Dichloroethane-D4	100%	62-130%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D35038
Account: XTOKRWR XTO Energy
Project: FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D35038-3MS	5V21709.D	1	06/04/12	BD	n/a	n/a	V5V1323
D35038-3MSD	5V21710.D	1	06/04/12	BD	n/a	n/a	V5V1323
D35038-3	5V21708.D	1	06/04/12	BD	n/a	n/a	V5V1323

The QC reported here applies to the following samples:

Method: SW846 8260B

D35038-1, D35038-2, D35038-3

CAS No.	Compound	D35038-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	32.1	J	3260	3240	98	3940	120	19	70-134/30

CAS No.	Surrogate Recoveries	MS	MSD	D35038-3	Limits
2037-26-5	Toluene-D8	94%	118%	89%	61-130%
460-00-4	4-Bromofluorobenzene	117%	147% * a	98%	53-131%
17060-07-0	1,2-Dichloroethane-D4	100%	122%	93%	62-130%

(a) Outside control limits due to possible matrix interference.

GC/MS Volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5060412.S\
 Data File : 5V21712.D
 Acq On : 4 Jun 2012 4:26 pm
 Operator : BRETD
 Sample : D35038-1
 Misc : MS4023,V5V1323,5.010,,100,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:12:39 2012
 Quant Method : C:\msdchem\1\METHODS\V5AP1304TVH1304.M
 Quant Title : 8260
 QLast Update : Thu May 24 07:55:17 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.635	168	213510	50.00	ug/l	-0.01
35) 1,4-Difluorobenzene	12.435	114	317576	50.00	ug/l	-0.01
53) Chlorobenzene-d5	15.095	117	375464	50.00	ug/l	0.00
74) 1,4-Dichlorobenzene-d4	17.070	152	270008	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	12.024	102	30927	47.11	ug/l	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.22%
61) Toluene-d8	13.850	98	601104	47.37	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.74%
69) 4-Bromofluorobenzene	16.042	95	272530	52.43	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	104.86%

Target Compounds

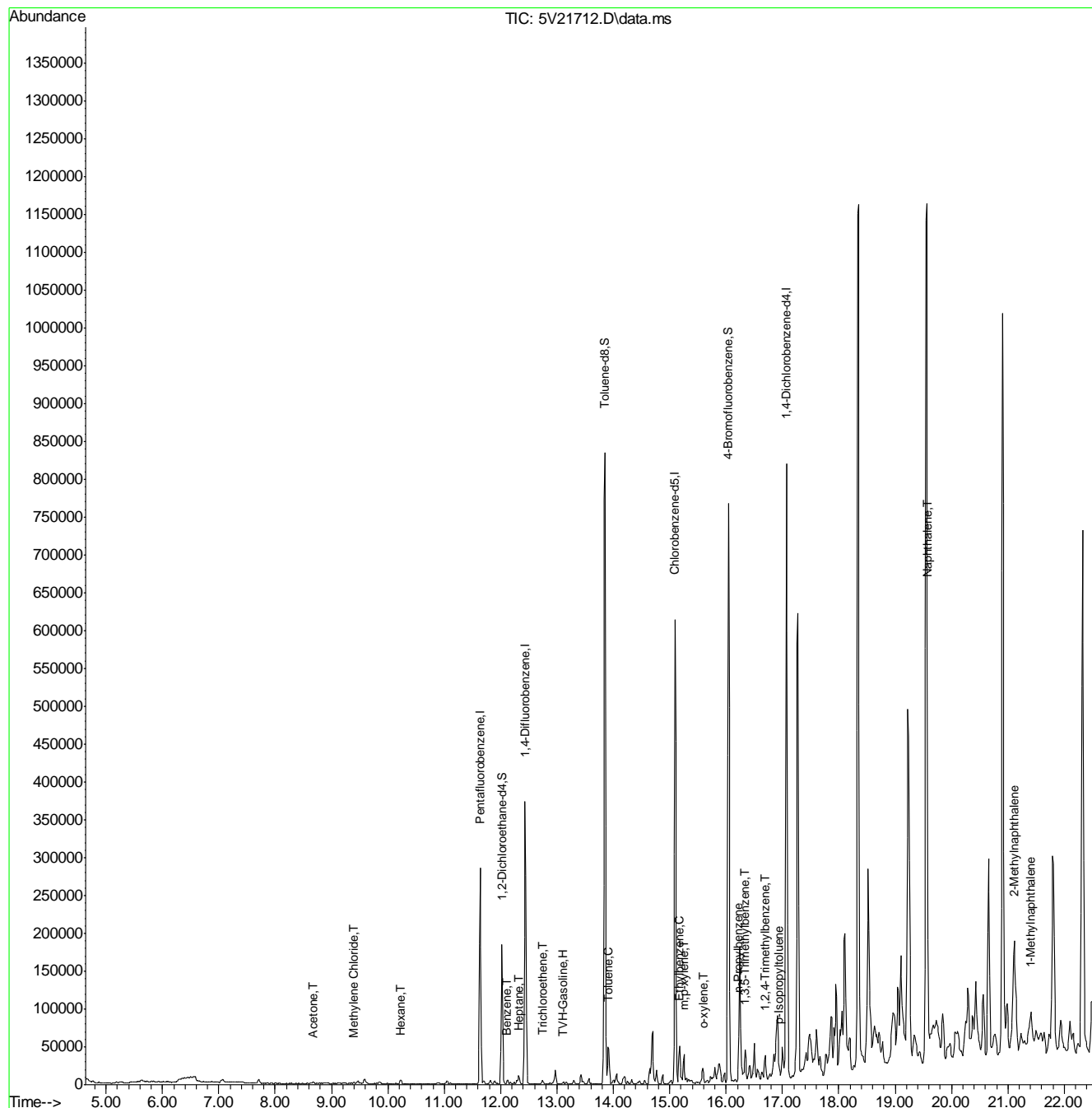
						Qvalue
1) TVH-Gasoline	13.102	TIC	1143132m	58.42	ug/l	
15) Acetone	8.667	58	937	0.87	ug/l #	79
17) Methylene Chloride	9.398	84	653	0.18	ug/l #	74
41) Hexane	10.231	57	2641	0.60	ug/l	100
43) Heptane	12.320	43	4499	0.96	ug/l	95
48) Trichloroethene	12.743	95	2041	0.58	ug/l	92
50) Benzene	12.115	78	5854	0.44	ug/l	100
62) Toluene	13.907	92	14616	1.50	ug/l	99
66) Ethylbenzene	15.175	91	6711	0.37	ug/l	100
72) m,p-xylene	15.255	106	12636	1.75	ug/l	91
73) o-xylene	15.597	106	1650	0.24	ug/l #	66
77) n-Propylbenzene	16.225	91	3326	0.14	ug/l	100
80) 1,3,5-Trimethylbenzene	16.339	105	14771	0.86	ug/l	88
82) 1,2,4-Trimethylbenzene	16.693	105	17034	0.98	ug/l	92
86) p-Isopropyltoluene	16.944	119	4286	0.22	ug/l	94
91) Naphthalene	19.570	128	28402	2.62	ug/l	100
94) 2-Methylnaphthalene	21.111	142	99461	18.63	ug/l	98
95) 1-Methylnaphthalene	21.408	142	32382	6.93	ug/l #	91

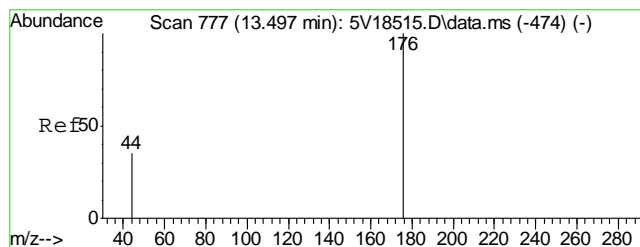
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5060412.S\
Data File : 5V21712.D
Acq On : 4 Jun 2012 4:26 pm
Operator : BRETD
Sample : D35038-1
Misc : MS4023,V5V1323,5.010,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

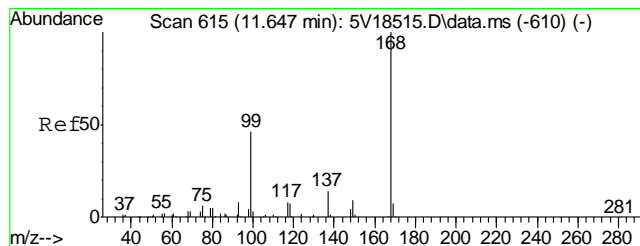
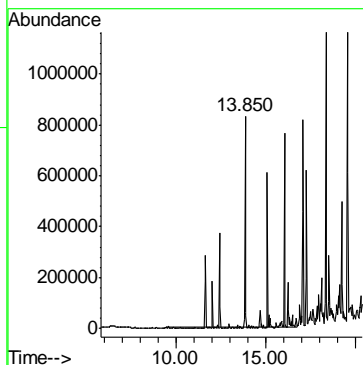
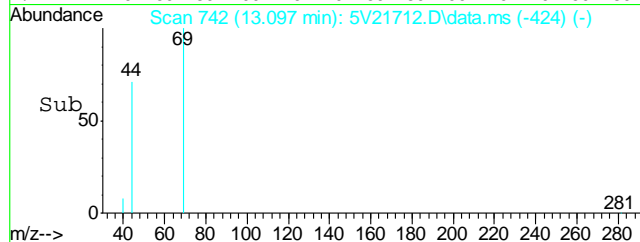
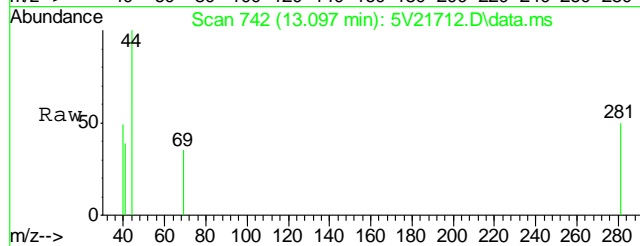
Quant Time: Jun 05 09:12:39 2012
Quant Method : C:\msdchem\1\METHODS\V5AP1304TVH1304.M
Quant Title : 8260
QLast Update : Thu May 24 07:55:17 2012
Response via : Initial Calibration





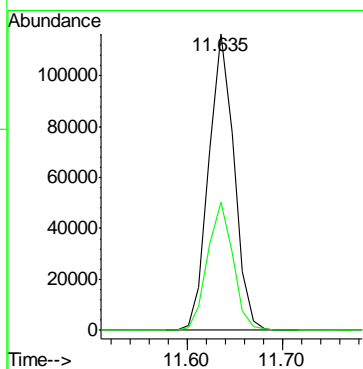
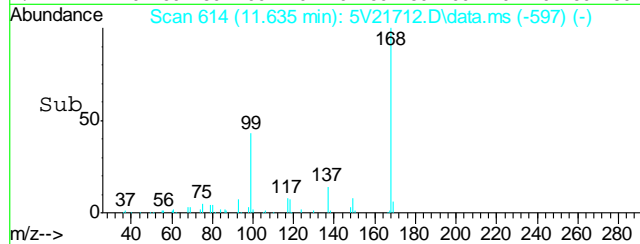
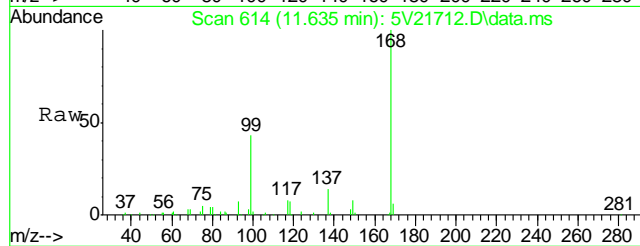
#1
TVH-Gasoline
Concen: 58.42 ug/l m
RT: 13.102 min Scan# 742
Delta R.T. 0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

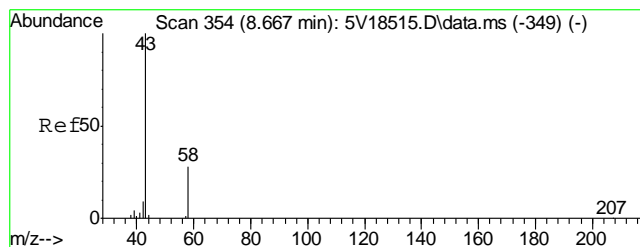
Tgt Ion:TIC Resp: 1143132



#2
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.635 min Scan# 614
Delta R.T. -0.012 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

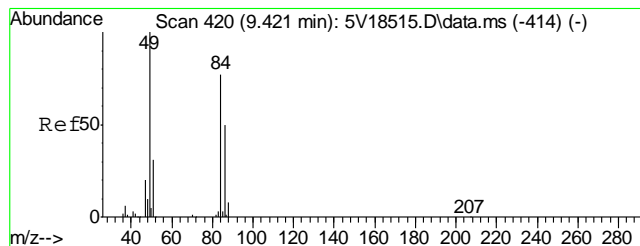
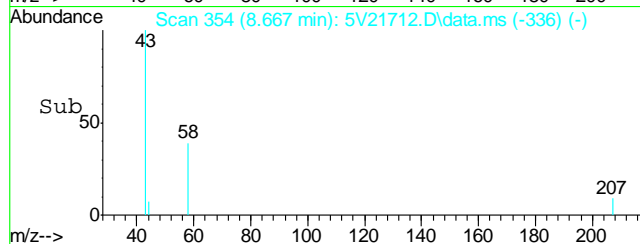
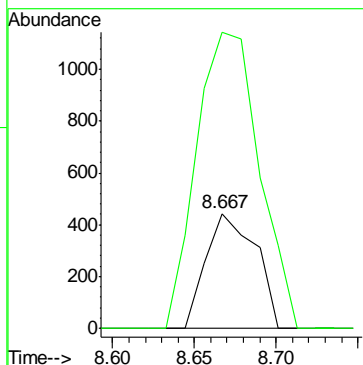
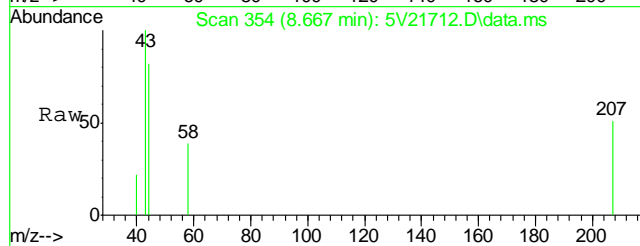
Tgt Ion:168 Resp: 213510
Ion Ratio Lower Upper
168 100
99 43.2 37.4 56.2





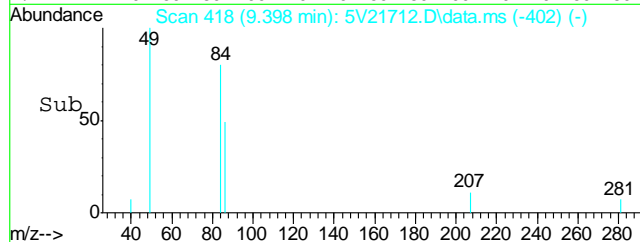
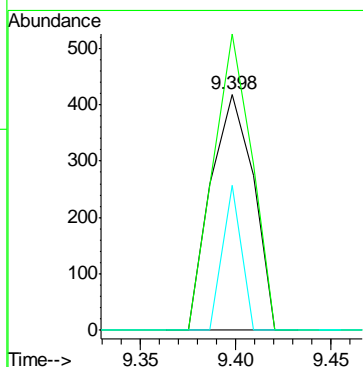
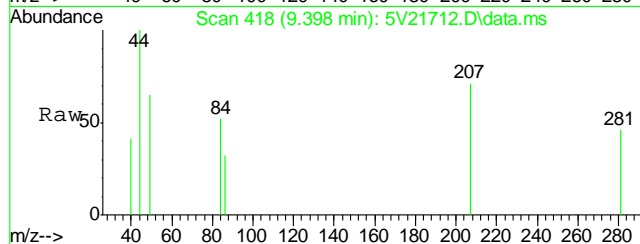
#15
Acetone
Concen: 0.87 ug/l
RT: 8.667 min Scan# 354
Delta R.T. 0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

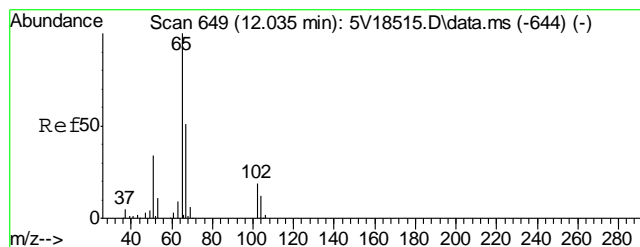
Tgt Ion: 58 Resp: 937
Ion Ratio Lower Upper
58 100
43 325.2 353.6 393.6#



#17
Methylene Chloride
Concen: 0.18 ug/l
RT: 9.398 min Scan# 418
Delta R.T. -0.023 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

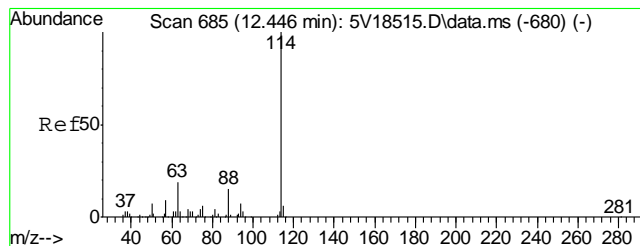
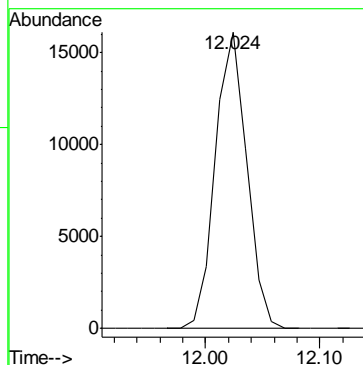
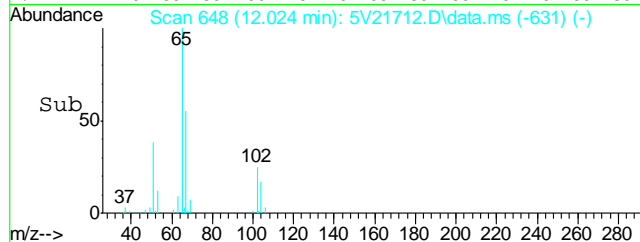
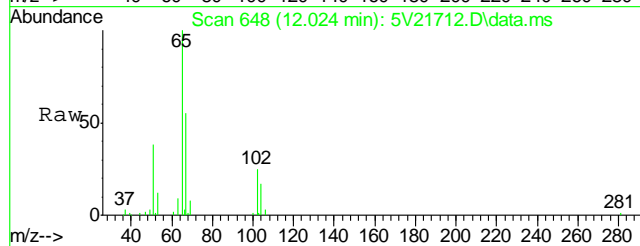
Tgt Ion: 84 Resp: 653
Ion Ratio Lower Upper
84 100
49 113.0 110.4 150.4
86 27.1 44.0 84.0#





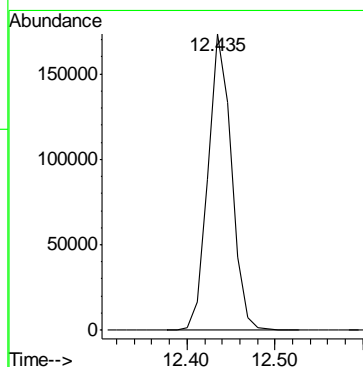
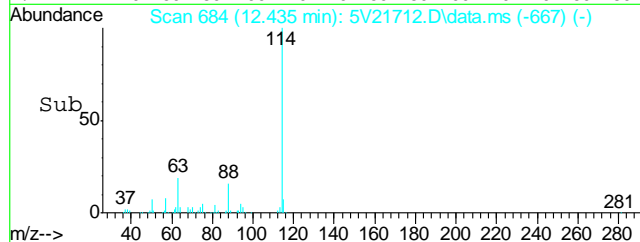
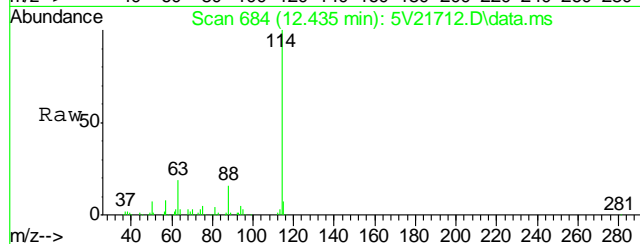
#33
1,2-Dichloroethane-d4
Concen: 47.11 ug/l
RT: 12.024 min Scan# 648
Delta R.T. -0.011 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

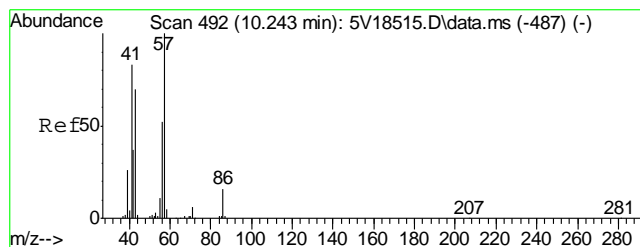
Tgt Ion:102 Resp: 30927



#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.435 min Scan# 684
Delta R.T. -0.012 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

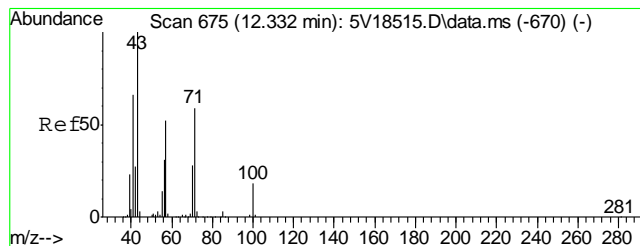
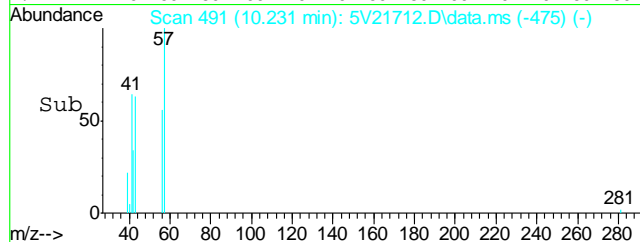
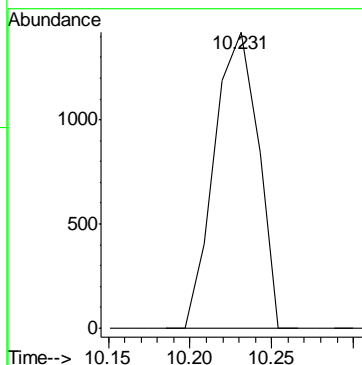
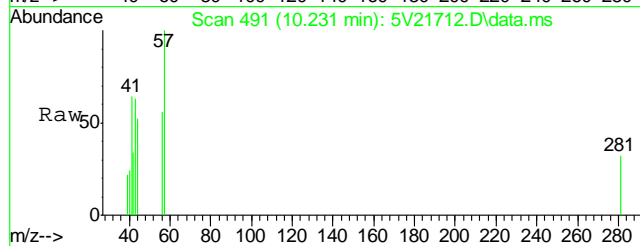
Tgt Ion:114 Resp: 317576





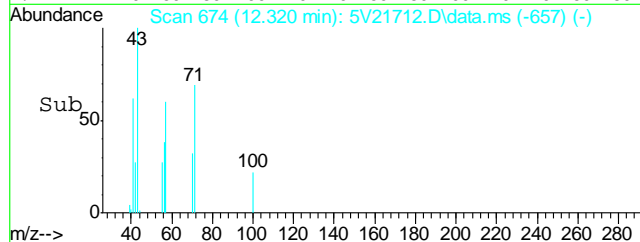
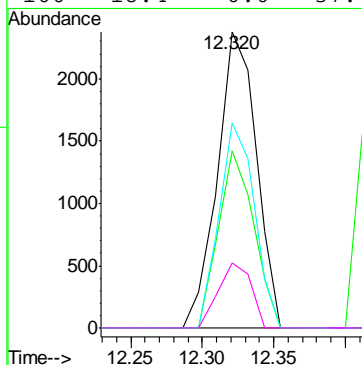
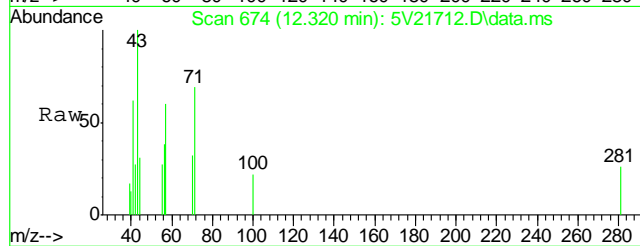
#41
Hexane
Concen: 0.60 ug/l
RT: 10.231 min Scan# 491
Delta R.T. -0.023 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

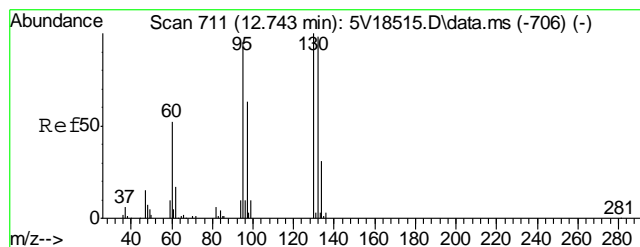
Tgt Ion: 57 Resp: 2641



#43
Heptane
Concen: 0.96 ug/l
RT: 12.320 min Scan# 674
Delta R.T. -0.012 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

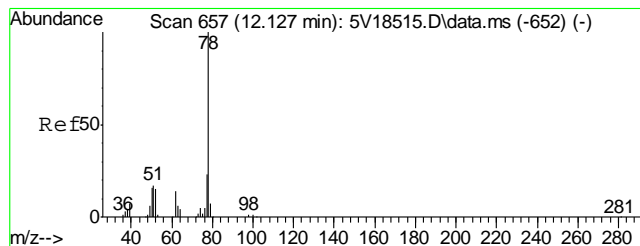
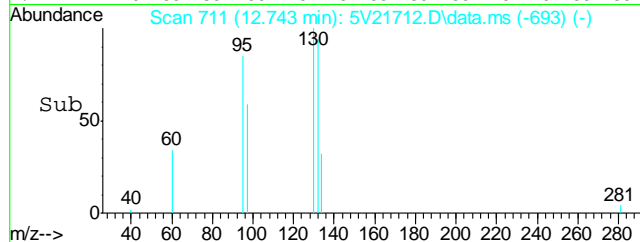
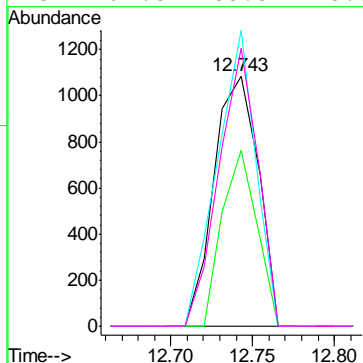
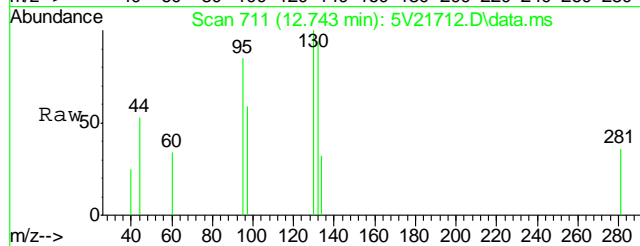
Tgt Ion: 43 Resp: 4499
Ion Ratio Lower Upper
43 100
57 54.2 30.6 70.6
71 62.3 38.9 78.9
100 18.4 0.0 37.4





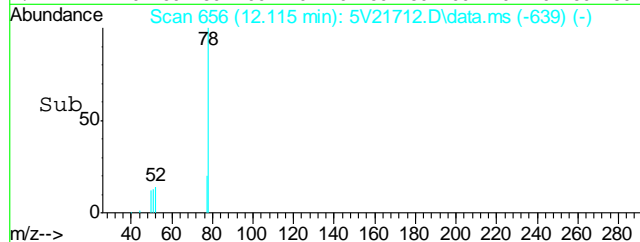
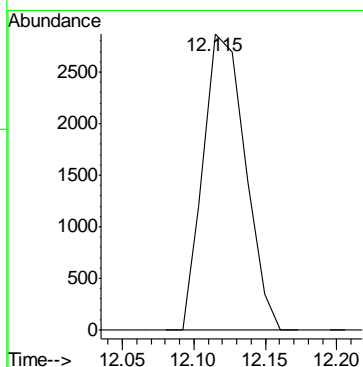
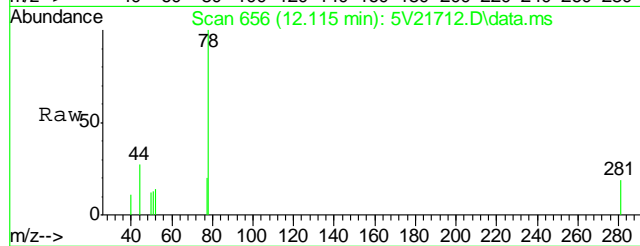
#48
Trichloroethene
Concen: 0.58 ug/l
RT: 12.743 min Scan# 711
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

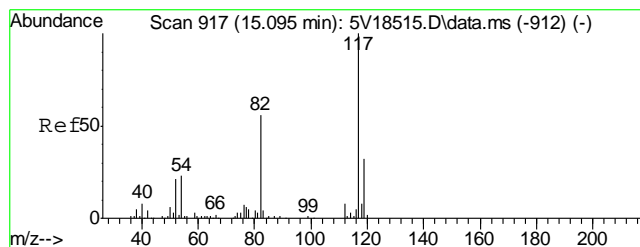
Tgt Ion	Ratio	Lower	Upper
95	100		
97	55.0	47.1	87.1
130	102.4	85.2	125.2
132	97.5	85.5	125.5



#50
Benzene
Concen: 0.44 ug/l
RT: 12.115 min Scan# 656
Delta R.T. -0.012 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

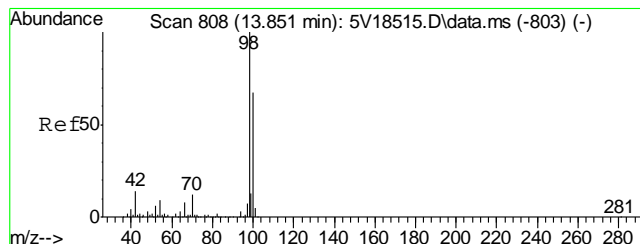
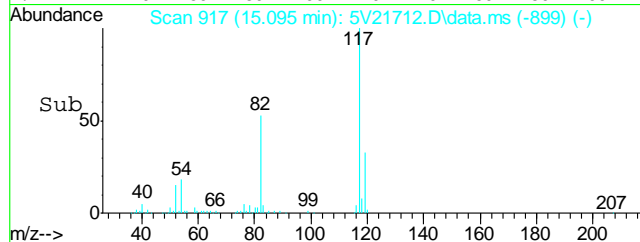
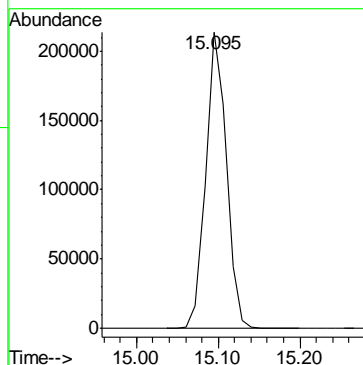
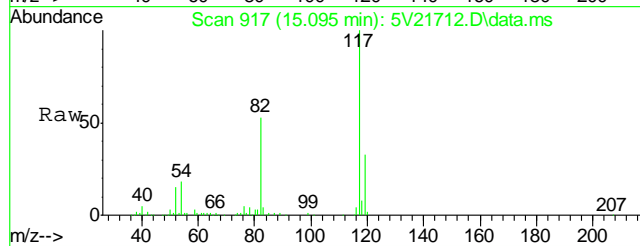
Tgt Ion: 78 Resp: 5854





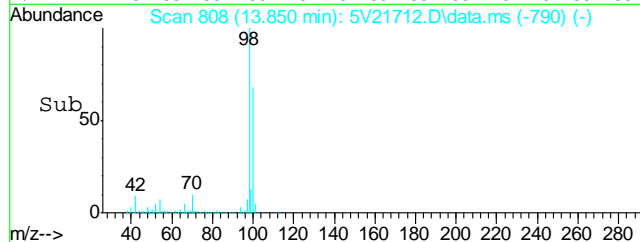
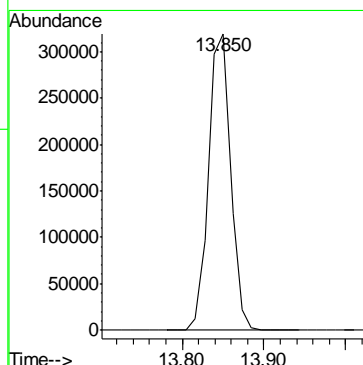
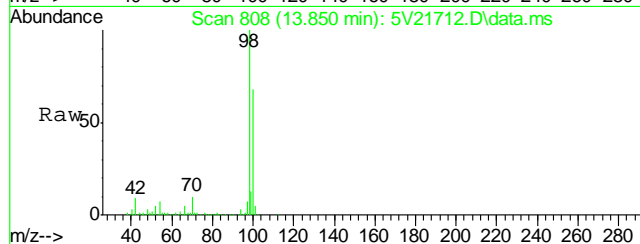
#53
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 15.095 min Scan# 917
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

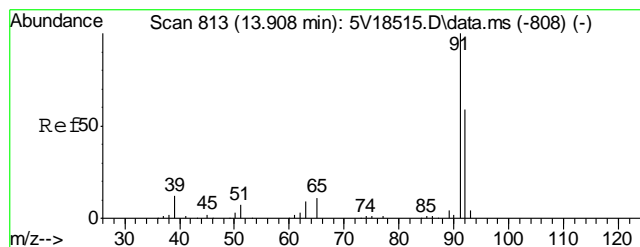
Tgt Ion:117 Resp: 375464



#61
Toluene-d8
Concen: 47.37 ug/l
RT: 13.850 min Scan# 808
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

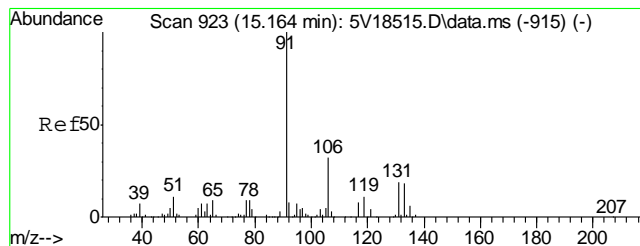
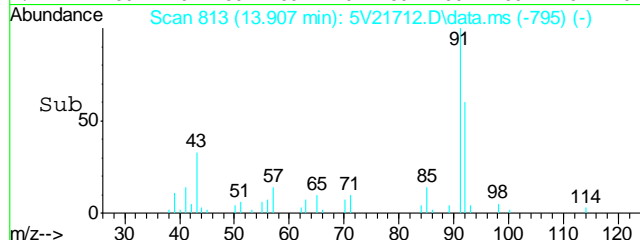
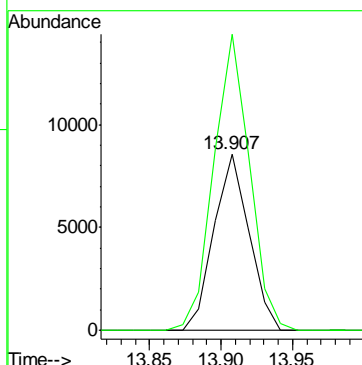
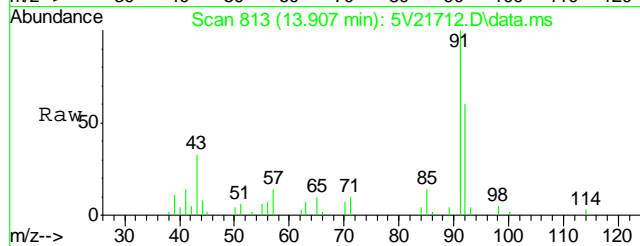
Tgt Ion: 98 Resp: 601104





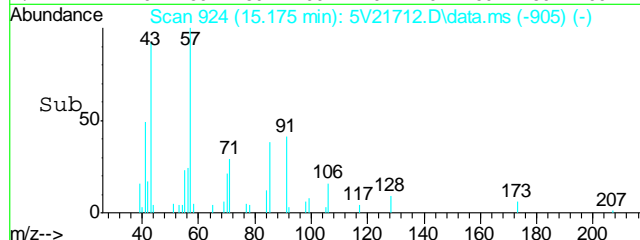
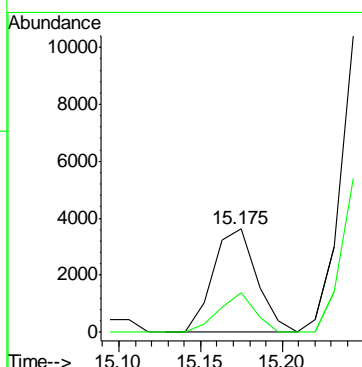
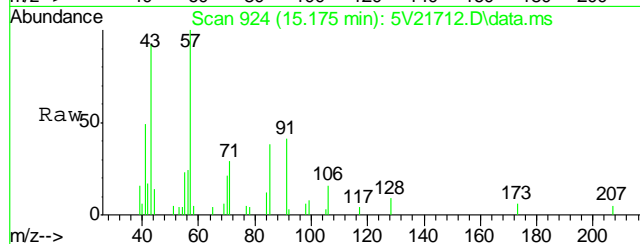
#62
Toluene
Concen: 1.50 ug/l
RT: 13.907 min Scan# 813
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

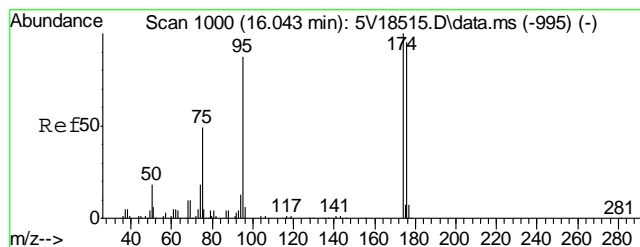
Tgt Ion	Resp	Lower	Upper
92	14616		
91	171.0	149.8	189.8



#66
Ethylbenzene
Concen: 0.37 ug/l
RT: 15.175 min Scan# 924
Delta R.T. 0.011 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

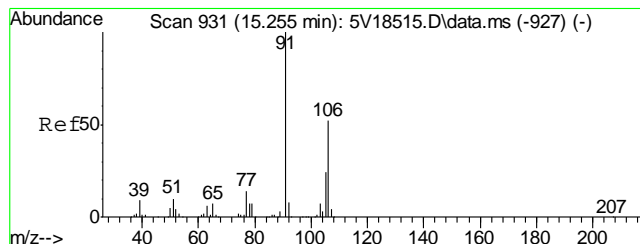
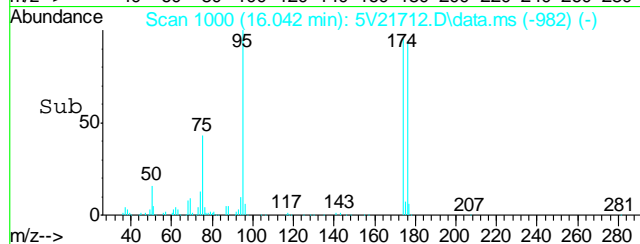
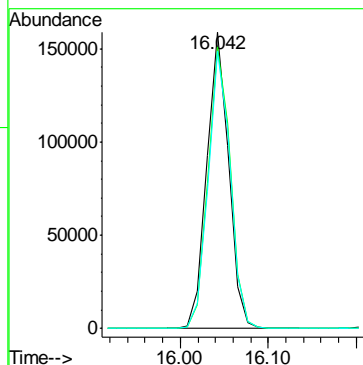
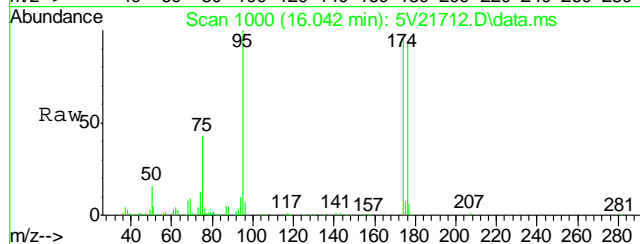
Tgt Ion	Resp	Lower	Upper
91	6711		
106	31.5	11.7	51.7





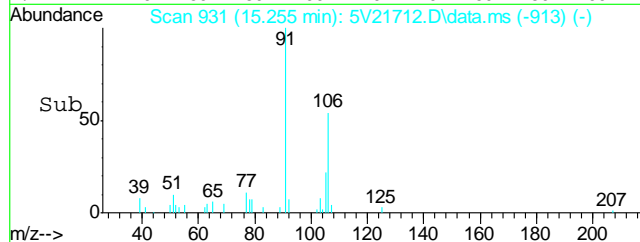
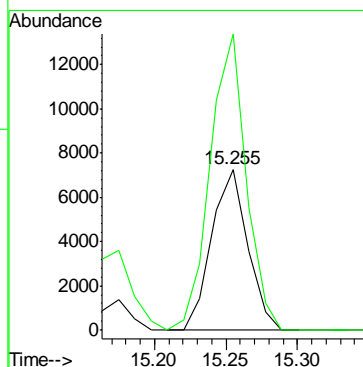
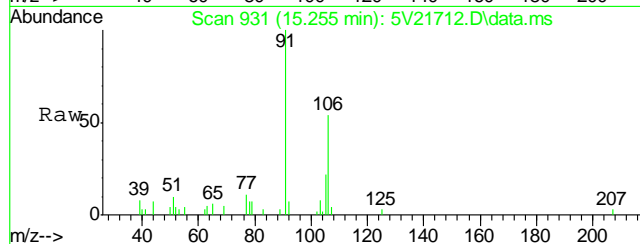
#69
4-Bromofluorobenzene
Concen: 52.43 ug/l
RT: 16.042 min Scan# 1000
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

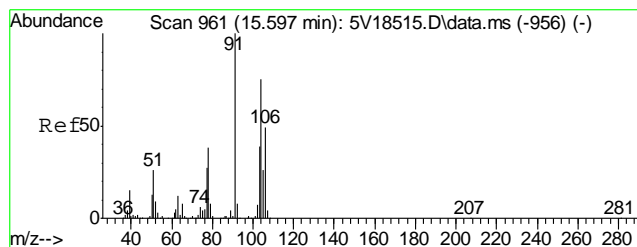
Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.1	77.1	117.1
176	94.4	73.4	113.4



#72
m,p-xylene
Concen: 1.75 ug/l
RT: 15.255 min Scan# 931
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

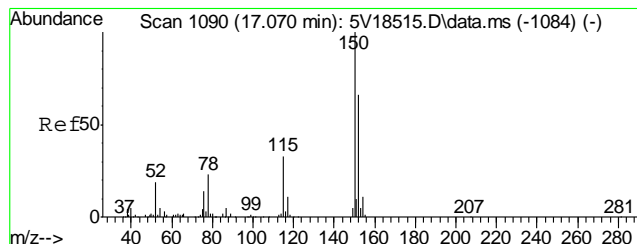
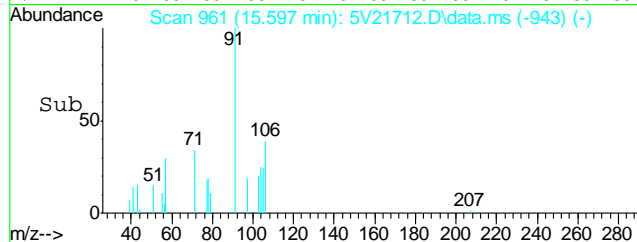
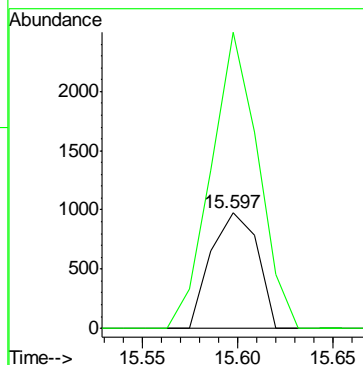
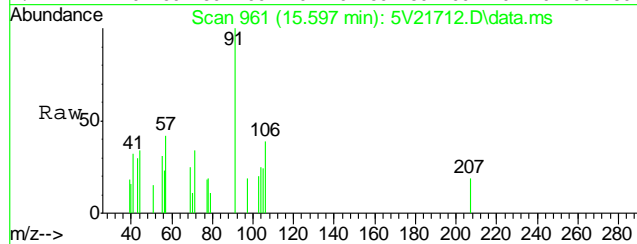
Tgt Ion	Ratio	Lower	Upper
106	100		
91	184.0	177.1	217.1





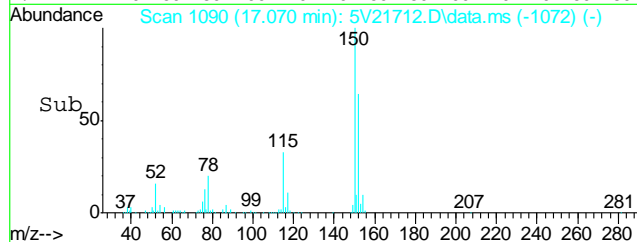
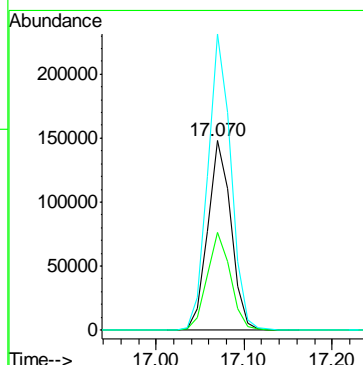
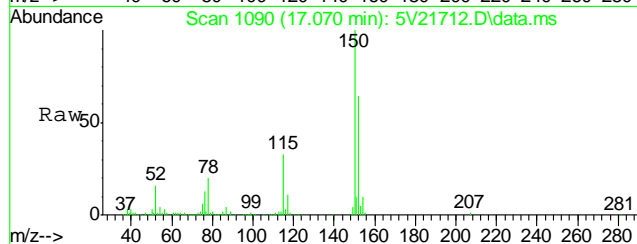
#73
o-xylene
Concen: 0.24 ug/l
RT: 15.597 min Scan# 961
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

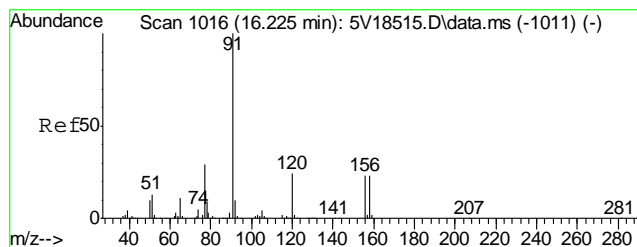
Tgt Ion	Ratio	Lower	Upper
106	100		
91	260.5	166.6	249.8#



#74
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 17.070 min Scan# 1090
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

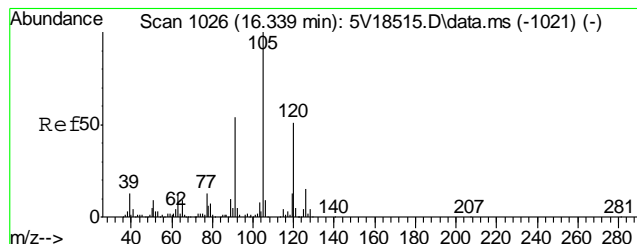
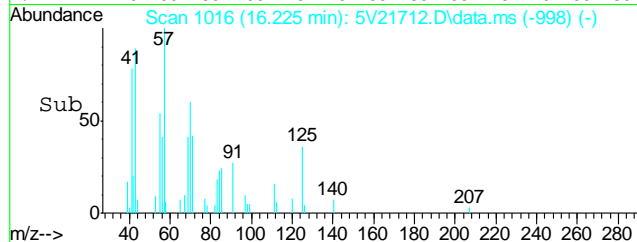
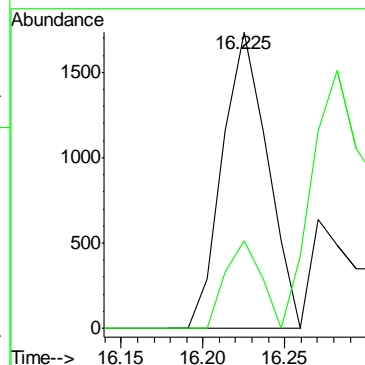
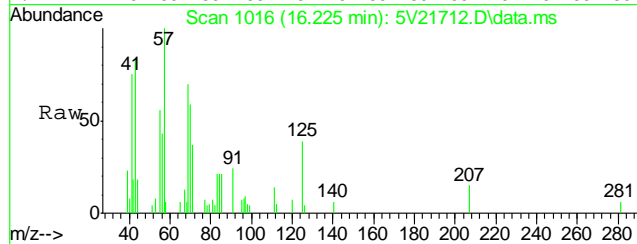
Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.8	41.4	62.0
150	155.9	153.9	230.9





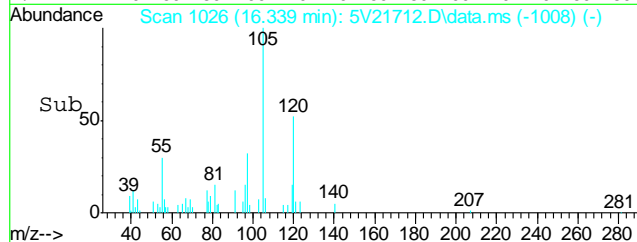
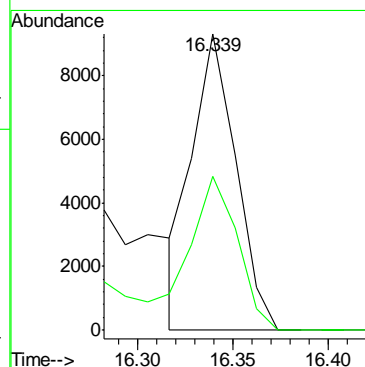
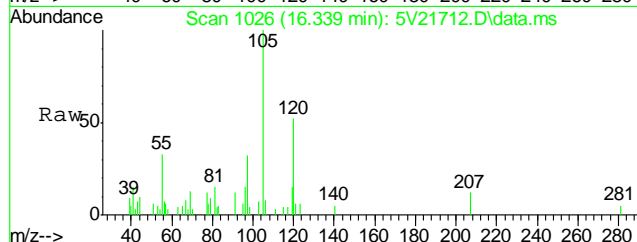
#77
n-Propylbenzene
Concen: 0.14 ug/l
RT: 16.225 min Scan# 1016
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

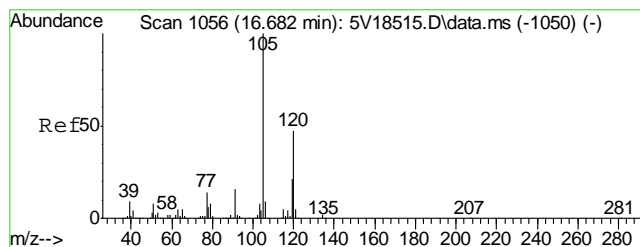
Tgt Ion: 91 Resp: 3326
Ion Ratio Lower Upper
91 100
120 23.4 18.6 27.8



#80
1,3,5-Trimethylbenzene
Concen: 0.86 ug/l
RT: 16.339 min Scan# 1026
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

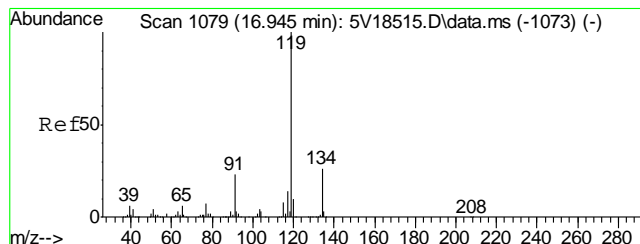
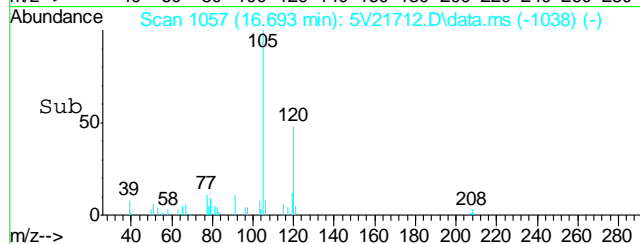
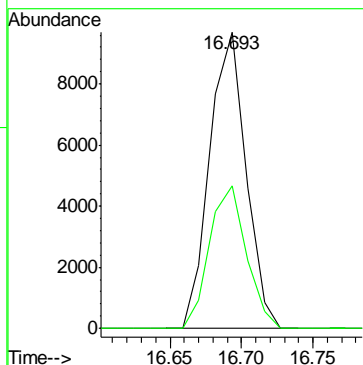
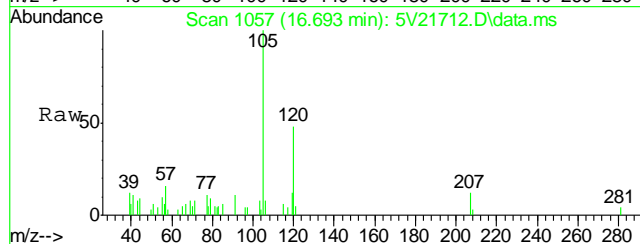
Tgt Ion: 105 Resp: 14771
Ion Ratio Lower Upper
105 100
120 58.1 40.1 60.1





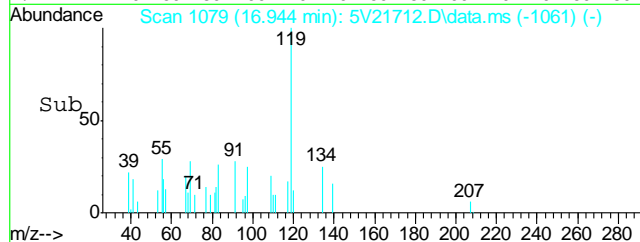
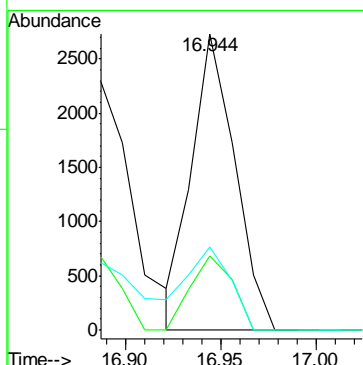
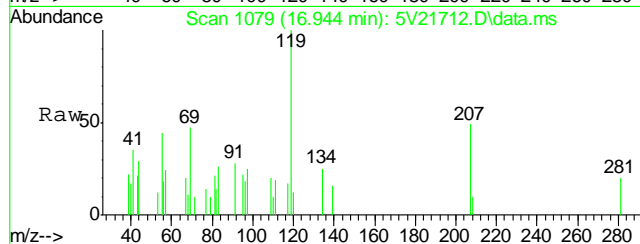
#82
1,2,4-Trimethylbenzene
Concen: 0.98 ug/l
RT: 16.693 min Scan# 1057
Delta R.T. 0.011 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

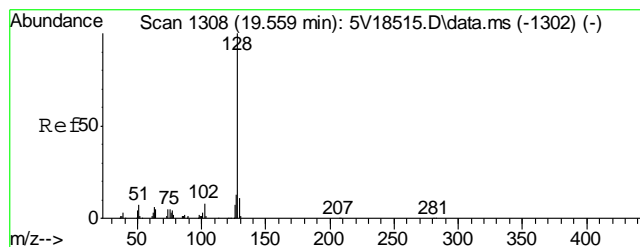
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.0	43.8	65.8



#86
p-Isopropyltoluene
Concen: 0.22 ug/l
RT: 16.944 min Scan# 1079
Delta R.T. -0.000 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

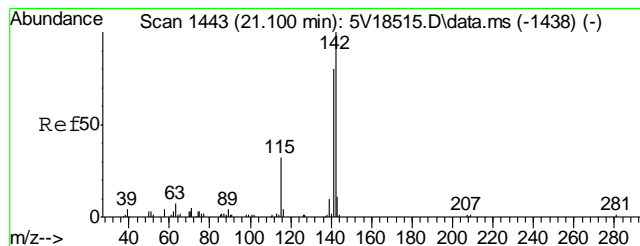
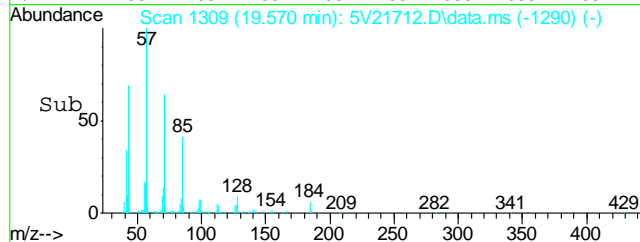
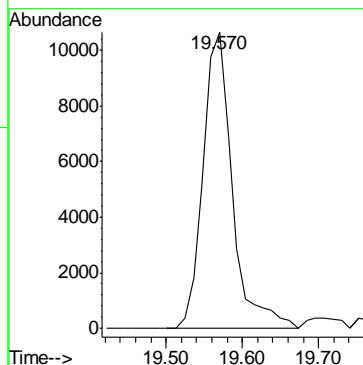
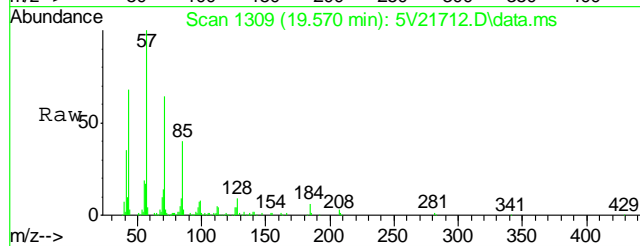
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.4	21.3	31.9
91	27.6	19.0	28.6





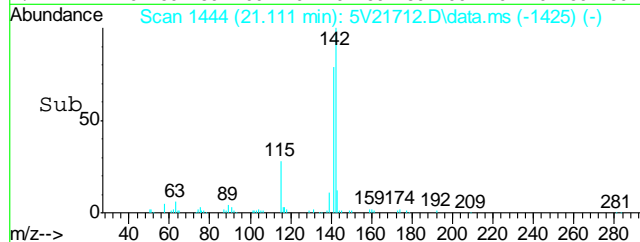
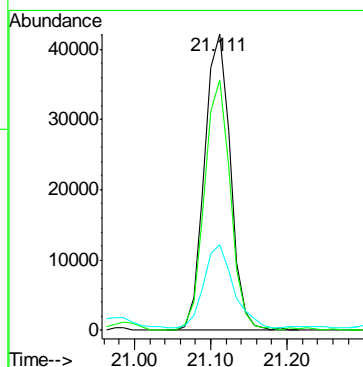
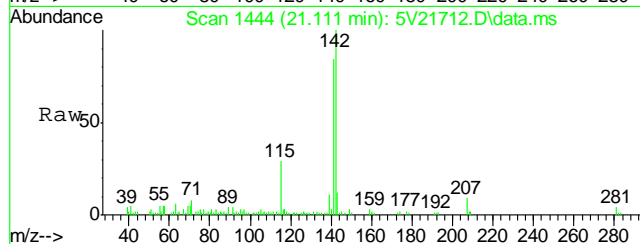
#91
Naphthalene
Concen: 2.62 ug/l
RT: 19.570 min Scan# 1309
Delta R.T. 0.012 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

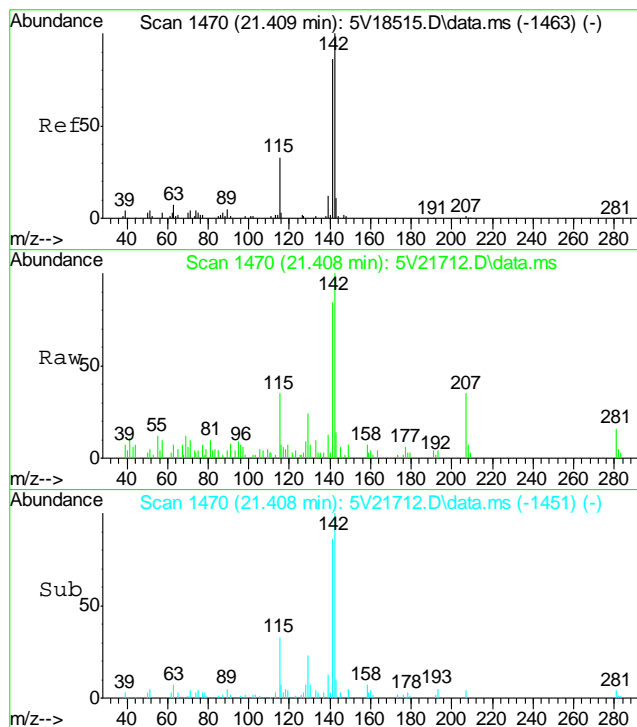
Tgt Ion:128 Resp: 28402



#94
2-Methylnaphthalene
Concen: 18.63 ug/l
RT: 21.111 min Scan# 1444
Delta R.T. 0.011 min
Lab File: 5V21712.D
Acq: 4 Jun 2012 4:26 pm

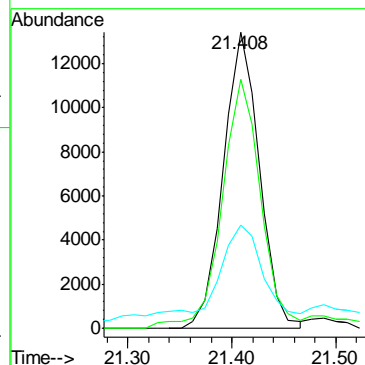
Tgt Ion:142 Resp: 99461
Ion Ratio Lower Upper
142 100
141 84.5 66.2 99.4
115 31.5 25.9 38.9





#95
 1-Methylnaphthalene
 Concen: 6.93 ug/l
 RT: 21.408 min Scan# 1470
 Delta R.T. 0.011 min
 Lab File: 5V21712.D
 Acq: 4 Jun 2012 4:26 pm

Tgt Ion:	142	Resp:	32382
Ion Ratio	Lower	Upper	
142	100		
141	89.8	68.9	103.3
115	46.1	27.3	40.9#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5060412.S\
 Data File : 5V21711.D
 Acq On : 4 Jun 2012 3:48 pm
 Operator : BRETD
 Sample : D35038-2
 Misc : MS4023,V5V1323,5.038,,100,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:08:52 2012
 Quant Method : C:\msdchem\1\METHODS\V5AP1304TVH1304.M
 Quant Title : 8260
 QLast Update : Thu May 24 07:55:17 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.647	168	214795	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.446	114	323910	50.00	ug/l	0.00
53) Chlorobenzene-d5	15.106	117	382100	50.00	ug/l	0.01
74) 1,4-Dichlorobenzene-d4	17.070	152	269282	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	12.035	102	32720	49.67	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.34%
61) Toluene-d8	13.851	98	631573	48.91	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.82%
69) 4-Bromofluorobenzene	16.043	95	285590	53.99	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.98%

Target Compounds

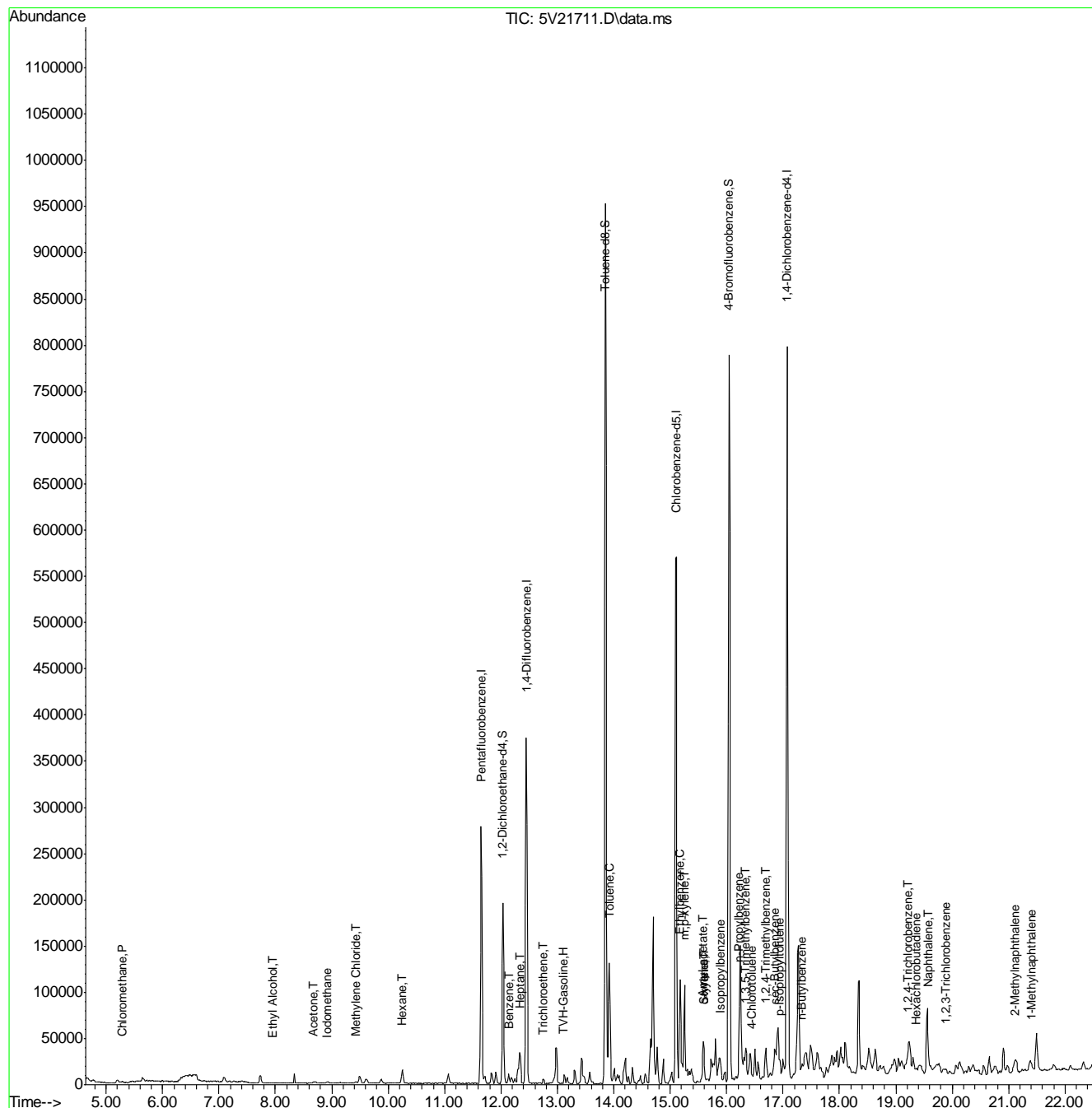
					Qvalue
1) TVH-Gasoline	13.102	TIC	2496975m	125.94	ug/l
4) Chloromethane	5.288	50	1341	0.42	ug/l
9) Ethyl Alcohol	7.959	45	662	26.44	ug/l #
12) Iodomethane	8.918	142	1624	1.61	ug/l #
15) Acetone	8.679	58	815	0.48	ug/l
17) Methylene Chloride	9.421	84	932	0.26	ug/l #
41) Hexane	10.243	57	8452	1.89	ug/l
43) Heptane	12.332	43	13710	2.86	ug/l
48) Trichloroethene	12.743	95	1898	0.53	ug/l
50) Benzene	12.138	78	9770	0.73	ug/l
58) Amyl acetate	15.586	70	2461	2.58	ug/l #
62) Toluene	13.919	92	36098	3.63	ug/l
66) Ethylbenzene	15.175	91	18401	1.00	ug/l
68) Isopropylbenzene	15.883	105	1992	0.11	ug/l
71) Styrene	15.597	104	2539	0.23	ug/l
72) m,p-xylene	15.255	106	31369	4.26	ug/l
73) o-xylene	15.597	106	4173	0.59	ug/l
77) n-Propylbenzene	16.225	91	7854m	0.32	ug/l
79) 4-Chlorotoluene	16.442	91	1723	0.12	ug/l #
80) 1,3,5-Trimethylbenzene	16.339	105	4232m	0.25	ug/l
82) 1,2,4-Trimethylbenzene	16.693	105	14445	0.83	ug/l
83) sec-Butylbenzene	16.853	105	2506	0.10	ug/l #
86) p-Isopropyltoluene	16.945	119	8536	0.44	ug/l #
88) n-Butylbenzene	17.333	91	5594	0.31	ug/l
90) 1,2,4-Trichlorobenzene	19.205	180	4044	0.57	ug/l #
91) Naphthalene	19.570	128	21015	2.10	ug/l
92) Hexachlorobutadiene	19.354	225	1780	0.34	ug/l
93) 1,2,3-Trichlorobenzene	19.879	180	4301	0.65	ug/l #
94) 2-Methylnaphthalene	21.112	142	10238	3.16	ug/l #
95) 1-Methylnaphthalene	21.409	142	4929	2.07	ug/l #

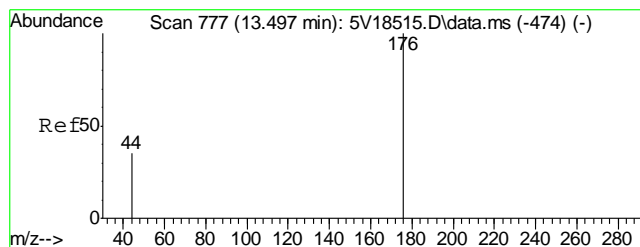
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5060412.S\
Data File : 5V21711.D
Acq On : 4 Jun 2012 3:48 pm
Operator : BRETD
Sample : D35038-2
Misc : MS4023,V5V1323,5.038,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

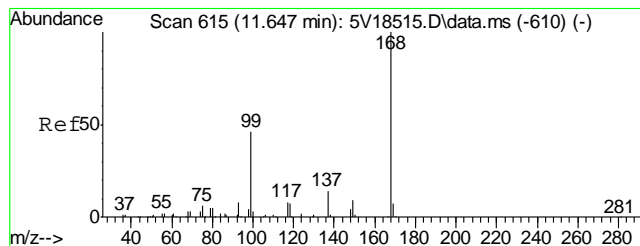
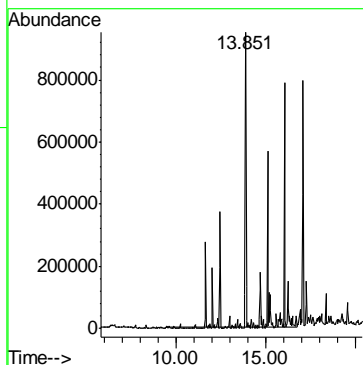
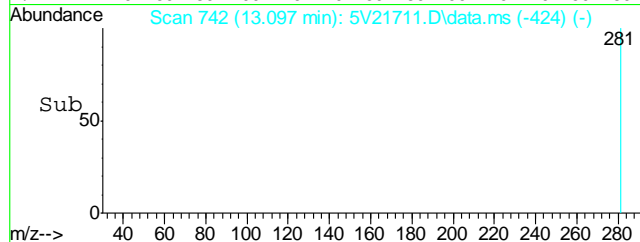
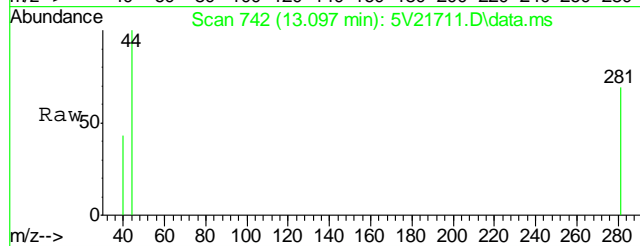
Quant Time: Jun 05 09:08:52 2012
Quant Method : C:\msdchem\1\METHODS\V5AP1304TVH1304.M
Quant Title : 8260
QLast Update : Thu May 24 07:55:17 2012
Response via : Initial Calibration





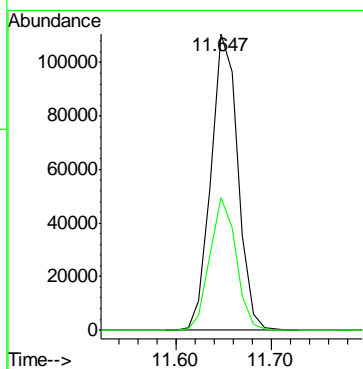
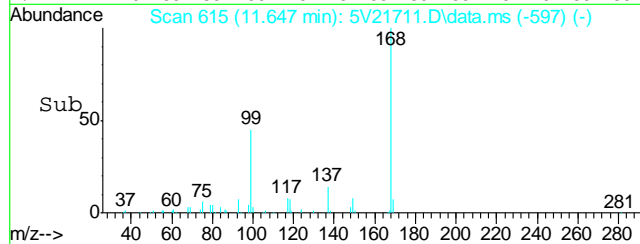
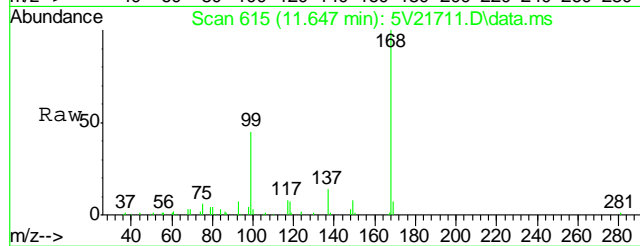
#1
TVH-Gasoline
Concen: 125.94 ug/l m
RT: 13.102 min Scan# 742
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

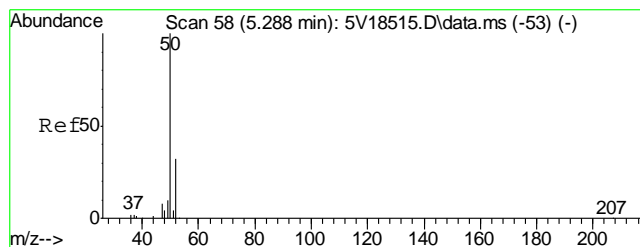
Tgt Ion:TIC Resp: 2496975



#2
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.647 min Scan# 615
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

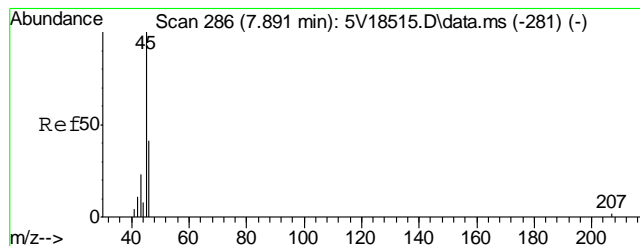
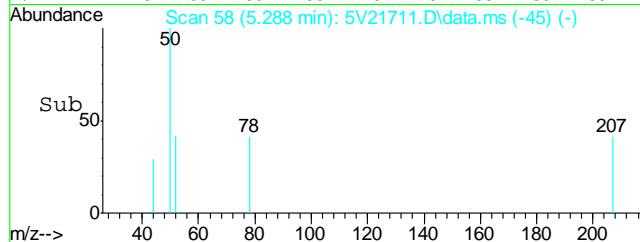
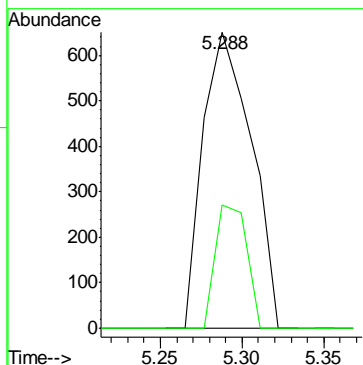
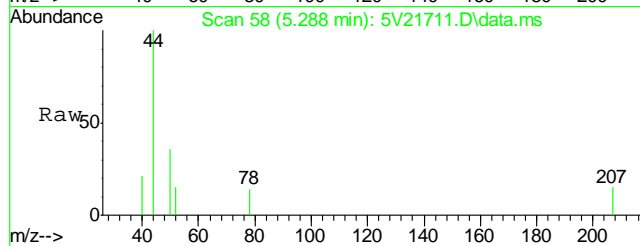
Tgt Ion:168 Resp: 214795
Ion Ratio Lower Upper
168 100
99 43.7 37.4 56.2





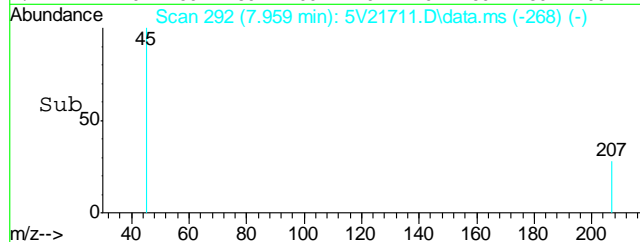
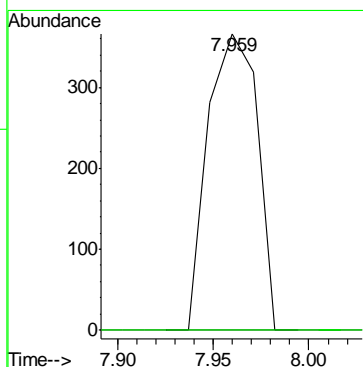
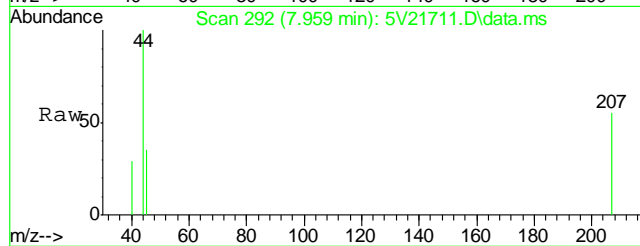
#4
Chloromethane
Concen: 0.42 ug/l
RT: 5.288 min Scan# 58
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

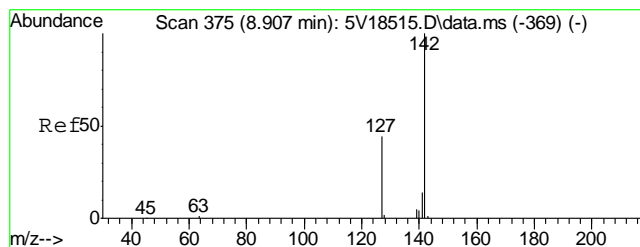
Tgt Ion: 50 Resp: 1341
Ion Ratio Lower Upper
50 100
52 26.8 12.1 52.1



#9
Ethyl Alcohol
Concen: 26.44 ug/l
RT: 7.959 min Scan# 292
Delta R.T. 0.069 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

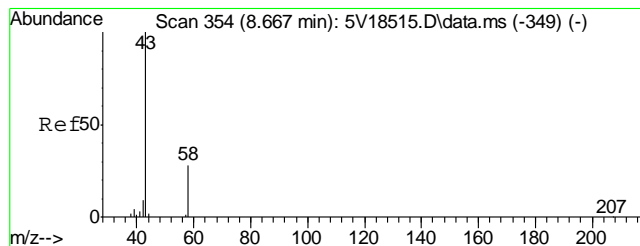
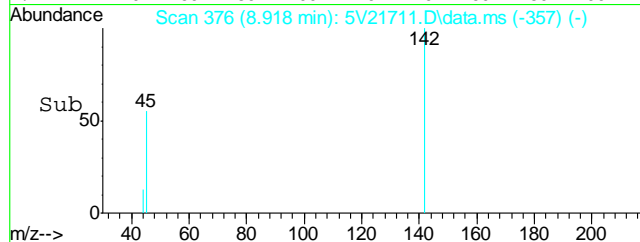
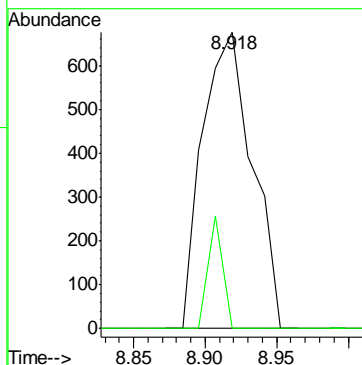
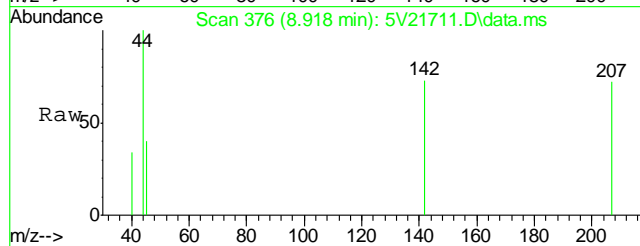
Tgt Ion: 45 Resp: 662
Ion Ratio Lower Upper
45 100
46 0.0 30.5 45.7#





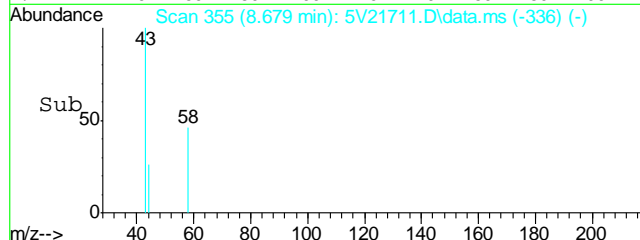
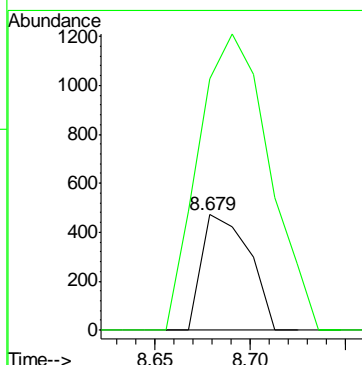
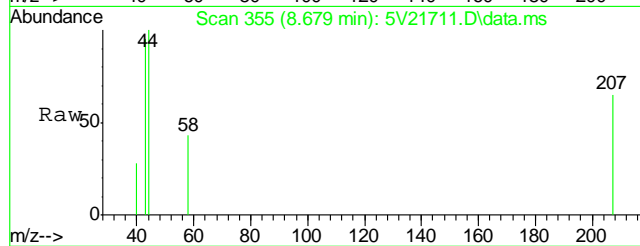
#12
Iodomethane
Concen: 1.61 ug/l
RT: 8.918 min Scan# 376
Delta R.T. 0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

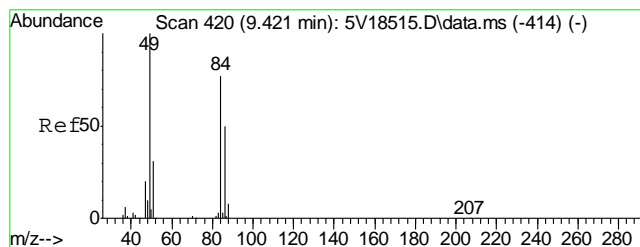
Tgt Ion: 142 Resp: 1624
Ion Ratio Lower Upper
142 100
127 10.8 35.4 53.0#



#15
Acetone
Concen: 0.48 ug/l
RT: 8.679 min Scan# 355
Delta R.T. 0.012 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

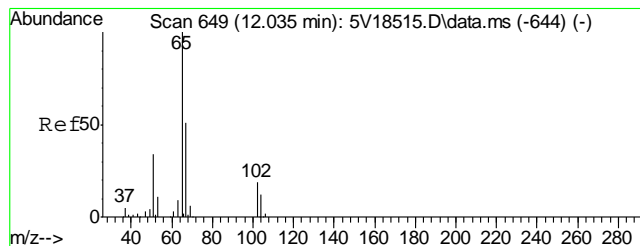
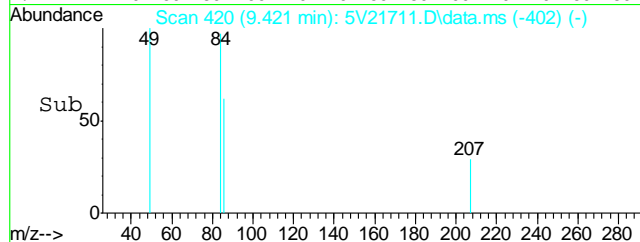
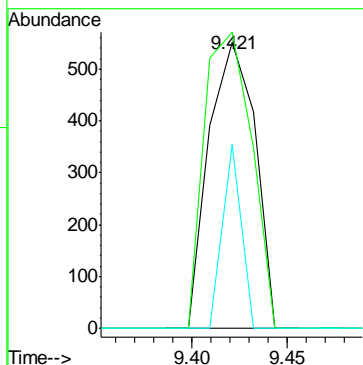
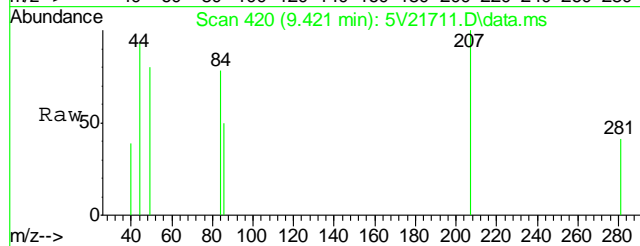
Tgt Ion: 58 Resp: 815
Ion Ratio Lower Upper
58 100
43 385.4 353.6 393.6





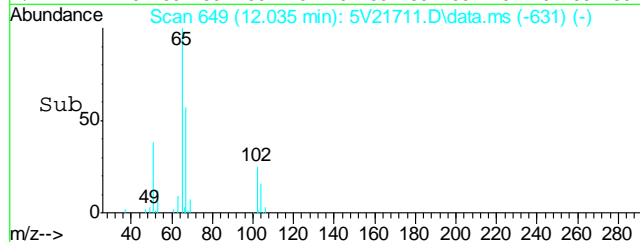
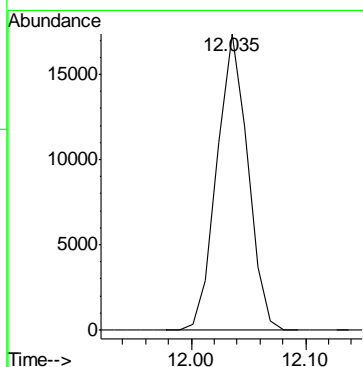
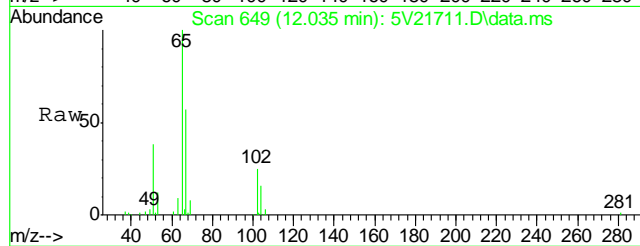
#17
Methylene Chloride
Concen: 0.26 ug/l
RT: 9.421 min Scan# 420
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

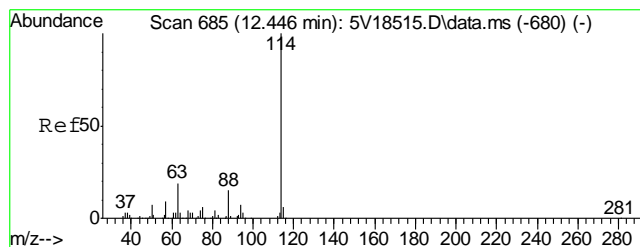
Tgt Ion: 84 Resp: 932
Ion Ratio Lower Upper
84 100
49 106.0 110.4 150.4#
86 26.0 44.0 84.0#



#33
1,2-Dichloroethane-d4
Concen: 49.67 ug/l
RT: 12.035 min Scan# 649
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

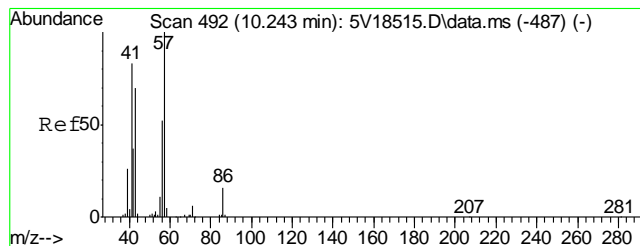
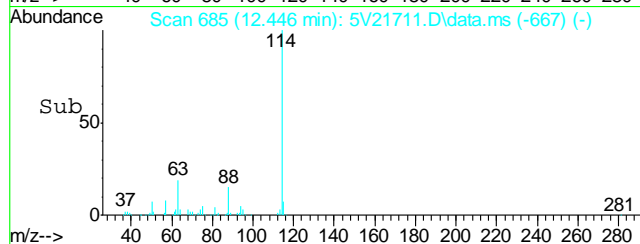
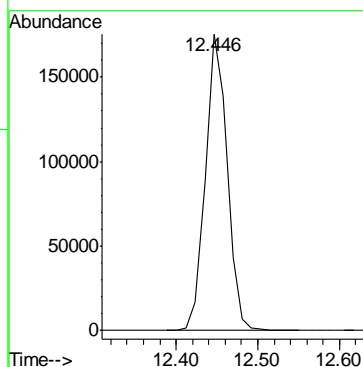
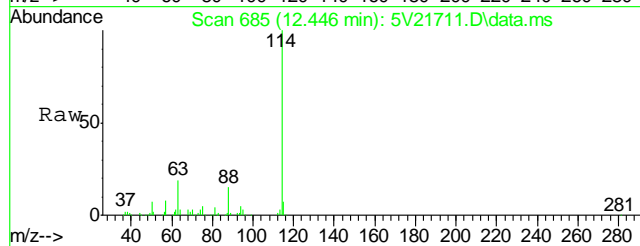
Tgt Ion: 102 Resp: 32720





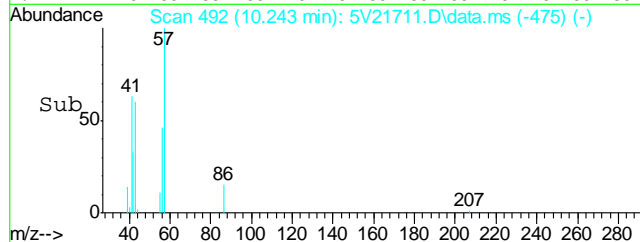
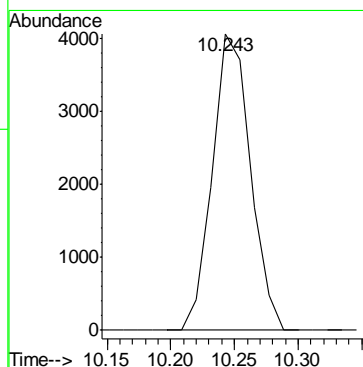
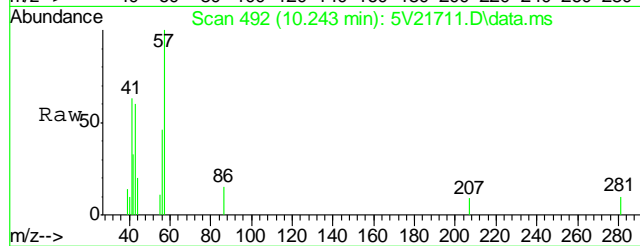
#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.446 min Scan# 685
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

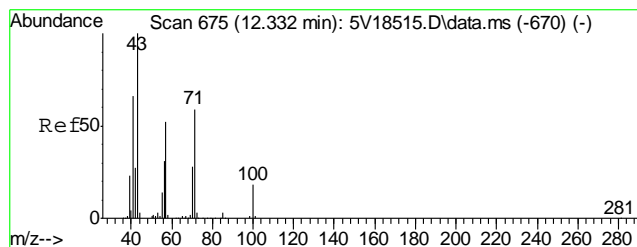
Tgt Ion: 114 Resp: 323910



#41
Hexane
Concen: 1.89 ug/l
RT: 10.243 min Scan# 492
Delta R.T. -0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

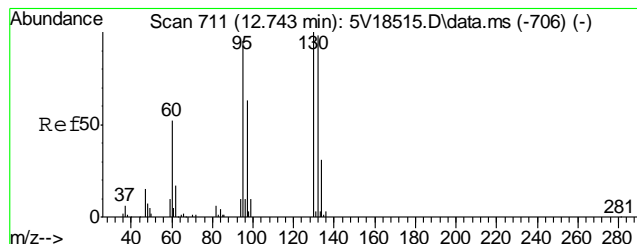
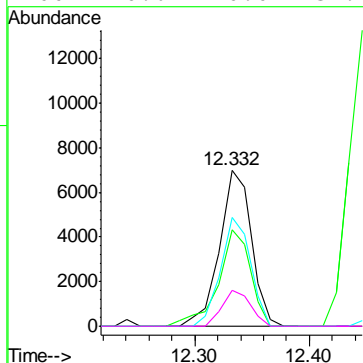
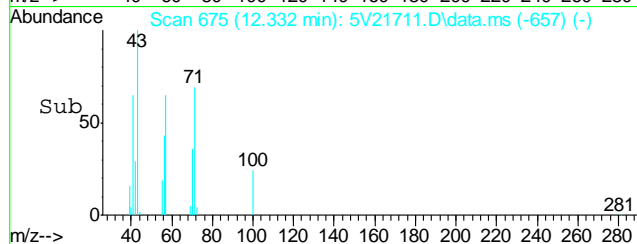
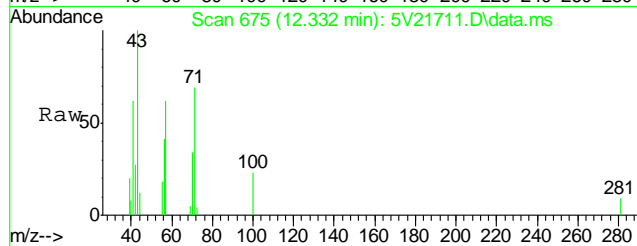
Tgt Ion: 57 Resp: 8452





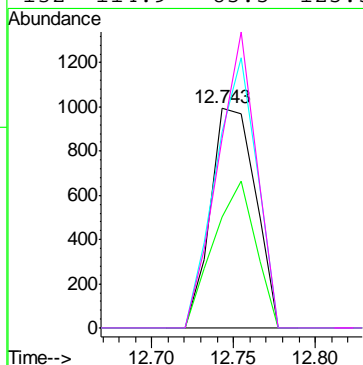
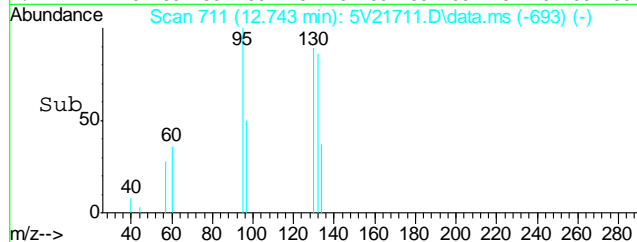
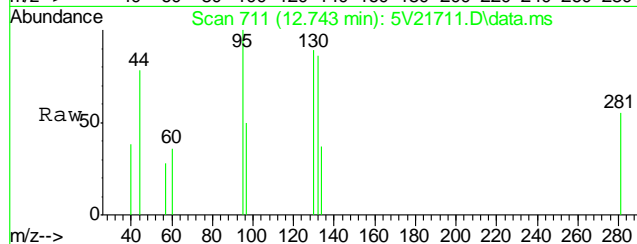
#43
Heptane
Concen: 2.86 ug/l
RT: 12.332 min Scan# 675
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

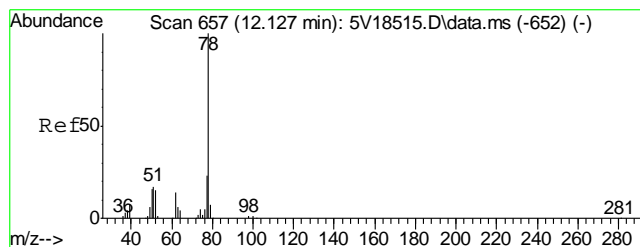
Tgt Ion:	43	Resp:	13710
Ion Ratio	Lower	Upper	
43	100		
57	61.7	30.6	70.6
71	64.7	38.9	78.9
100	20.6	0.0	37.4



#48
Trichloroethene
Concen: 0.53 ug/l
RT: 12.743 min Scan# 711
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

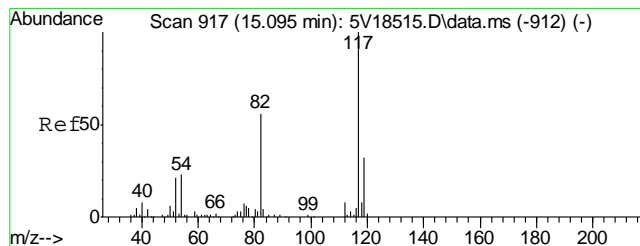
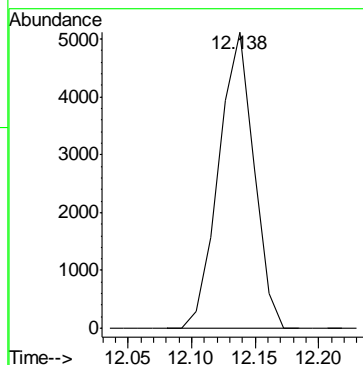
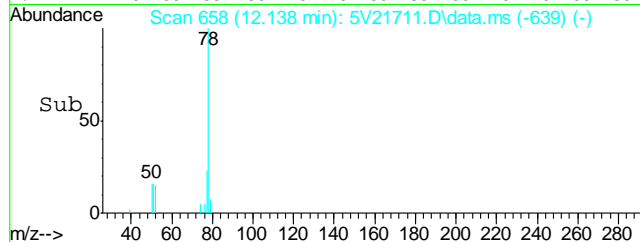
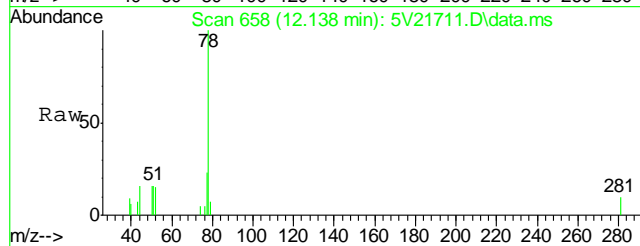
Tgt Ion:	95	Resp:	1898
Ion Ratio	Lower	Upper	
95	100		
97	62.6	47.1	87.1
130	112.6	85.2	125.2
132	114.9	85.5	125.5





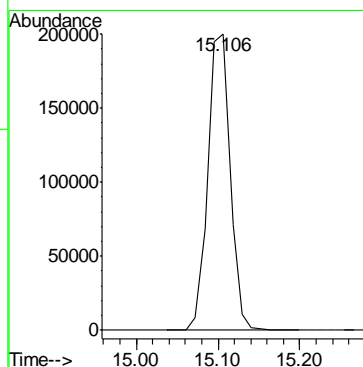
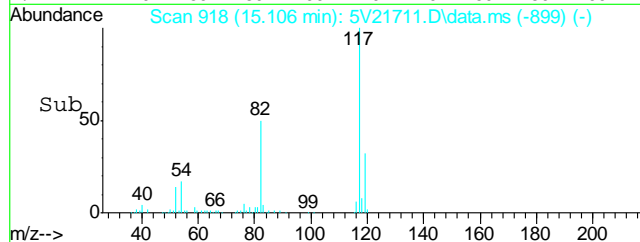
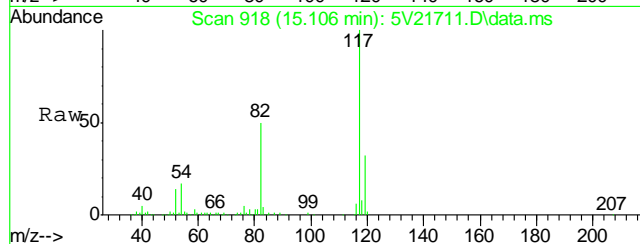
#50
Benzene
Concen: 0.73 ug/l
RT: 12.138 min Scan# 658
Delta R.T. 0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

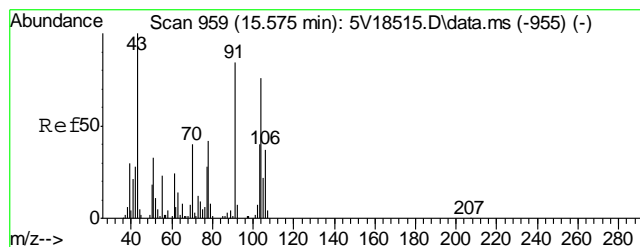
Tgt Ion: 78 Resp: 9770



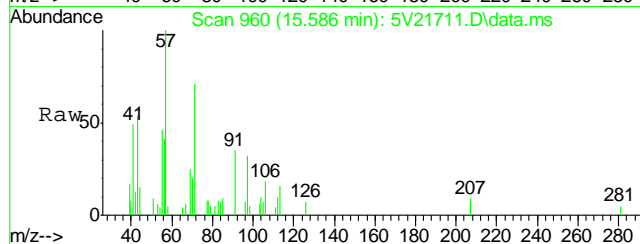
#53
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 15.106 min Scan# 918
Delta R.T. 0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

Tgt Ion: 117 Resp: 382100

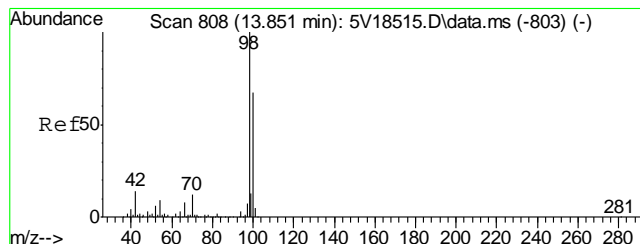
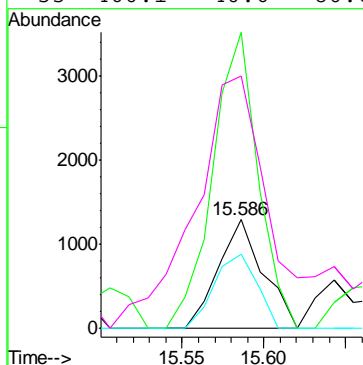
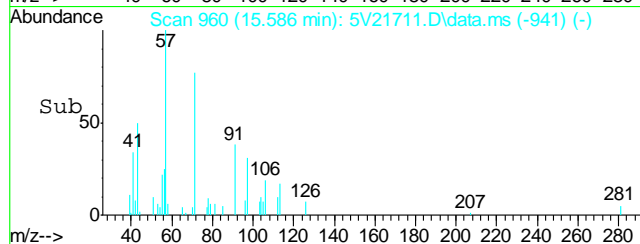




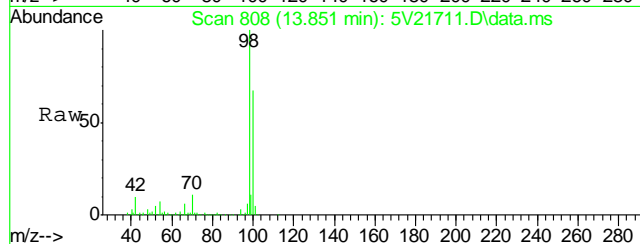
#58
Amyl acetate
Concen: 2.58 ug/l
RT: 15.586 min Scan# 960
Delta R.T. 0.012 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm



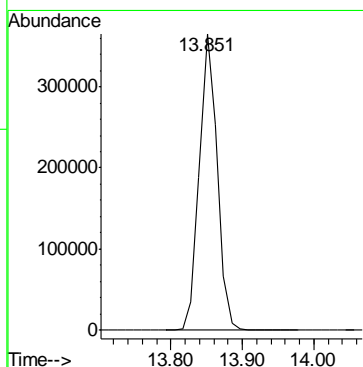
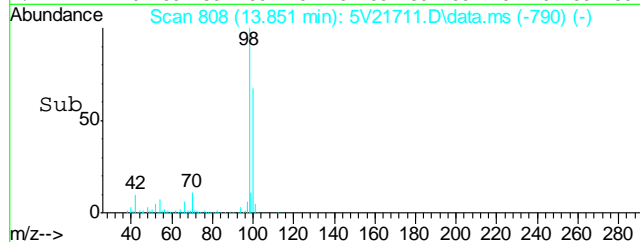
Tgt Ion: 70 Resp: 2461
Ion Ratio Lower Upper
70 100
43 275.1 231.1 271.1#
42 64.9 51.5 91.5
55 460.1 40.6 80.6#

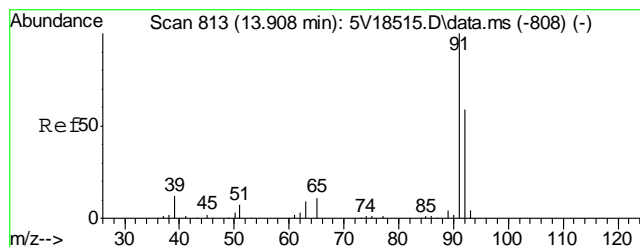


#61
Toluene-d8
Concen: 48.91 ug/l
RT: 13.851 min Scan# 808
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm



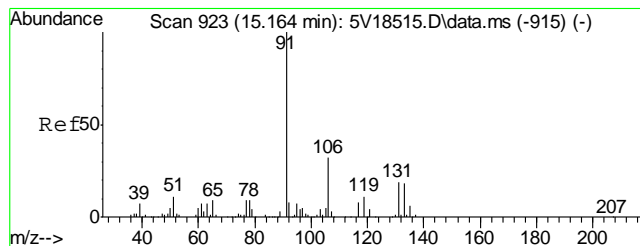
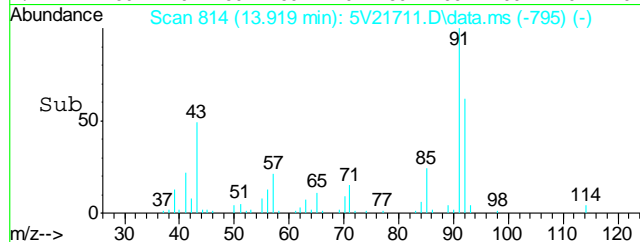
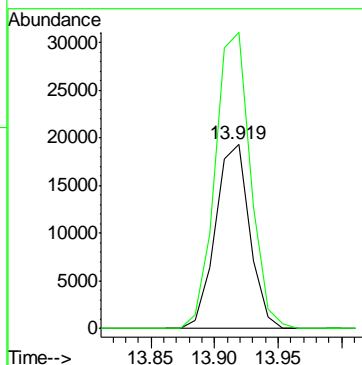
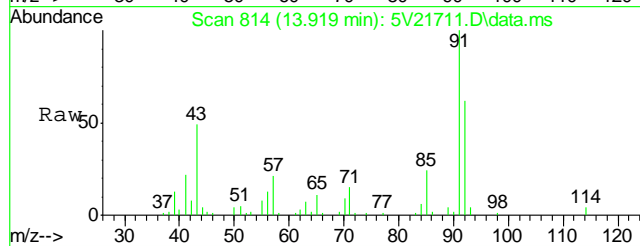
Tgt Ion: 98 Resp: 631573





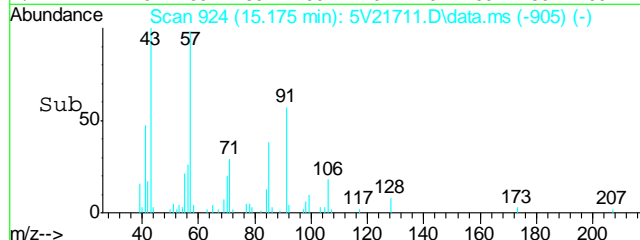
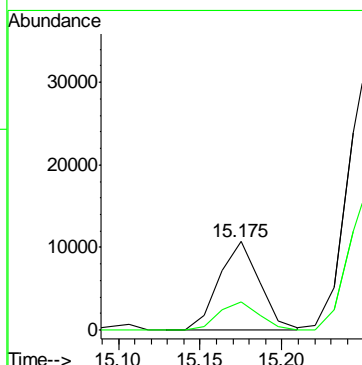
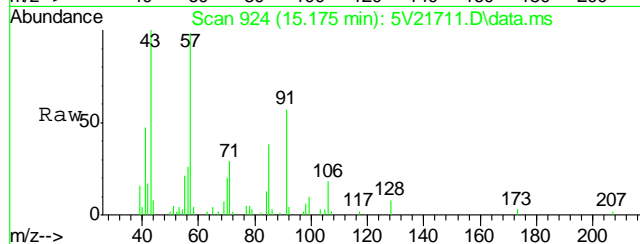
#62
Toluene
Concen: 3.63 ug/l
RT: 13.919 min Scan# 814
Delta R.T. 0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

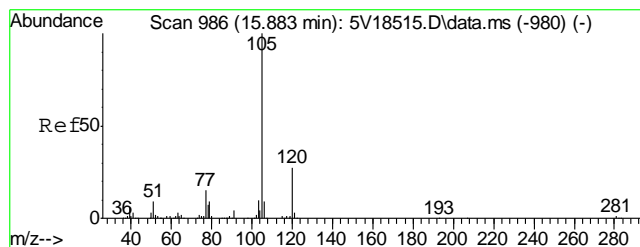
Tgt Ion	Ratio	Lower	Upper
92	100		
91	165.3	149.8	189.8



#66
Ethylbenzene
Concen: 1.00 ug/l
RT: 15.175 min Scan# 924
Delta R.T. 0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

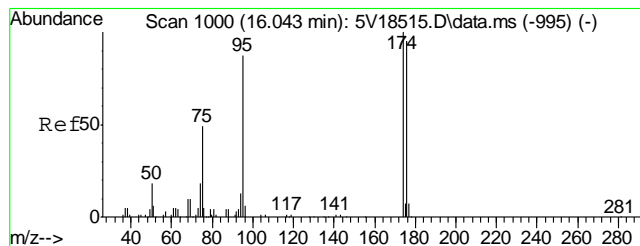
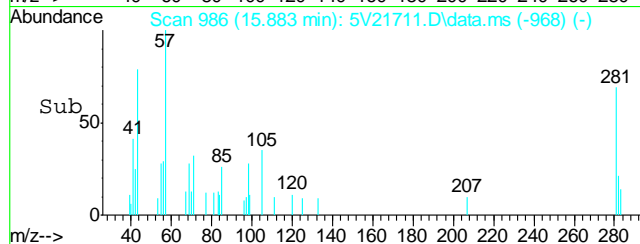
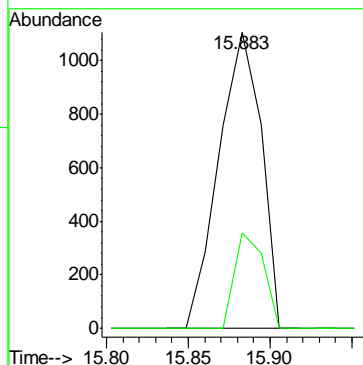
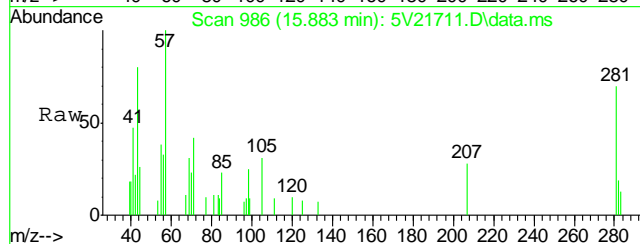
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.3	11.7	51.7





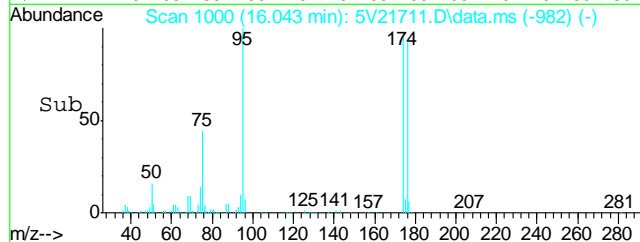
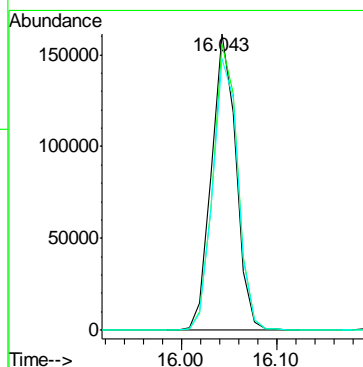
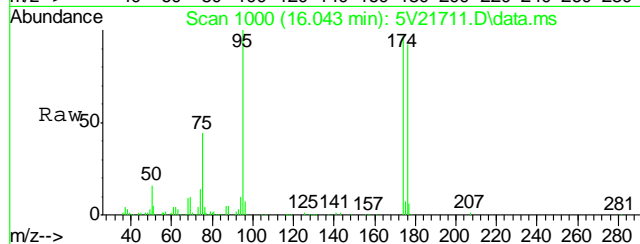
#68
Isopropylbenzene
Concen: 0.11 ug/l
RT: 15.883 min Scan# 986
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

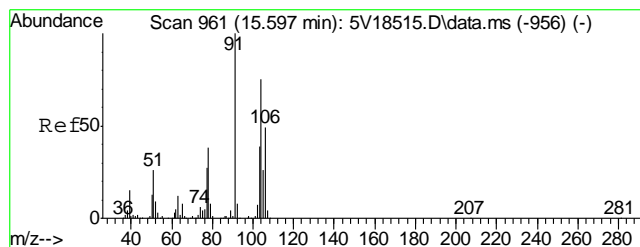
Tgt Ion: 105 Resp: 1992
Ion Ratio Lower Upper
105 100
120 21.9 21.0 31.4



#69
4-Bromofluorobenzene
Concen: 53.99 ug/l
RT: 16.043 min Scan# 1000
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

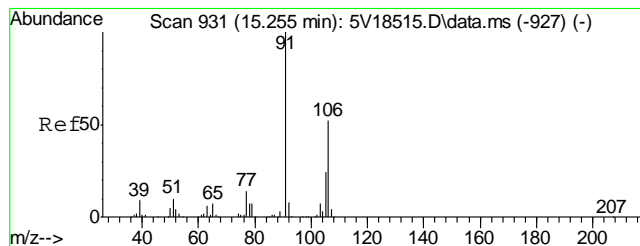
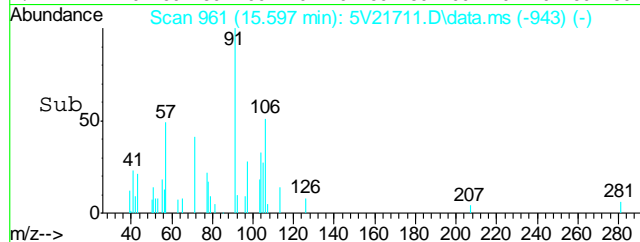
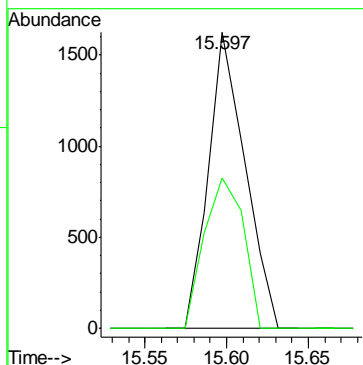
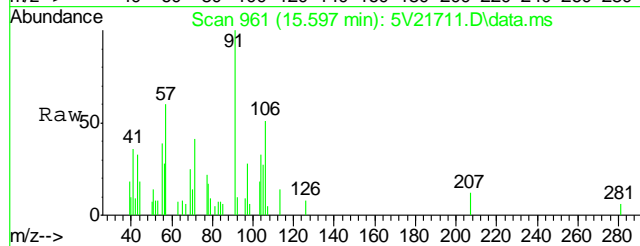
Tgt Ion: 95 Resp: 285590
Ion Ratio Lower Upper
95 100
174 97.8 77.1 117.1
176 94.5 73.4 113.4





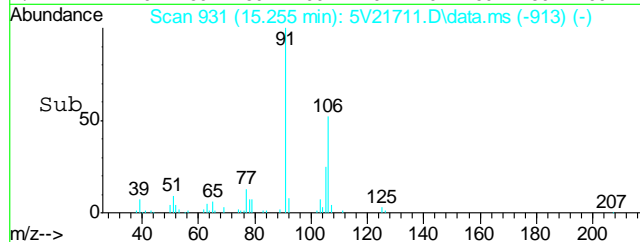
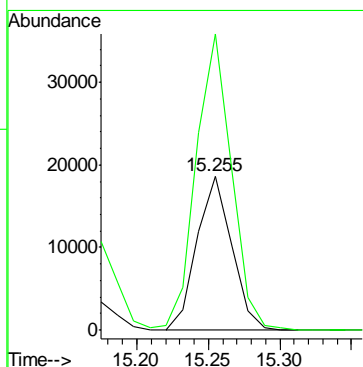
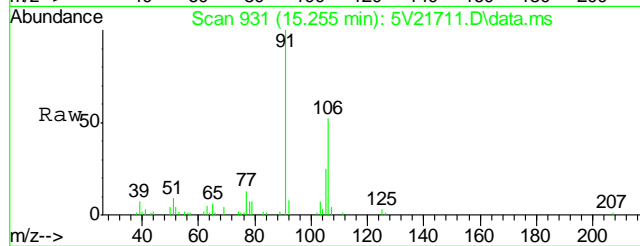
#71
Styrene
Concen: 0.23 ug/l
RT: 15.597 min Scan# 961
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

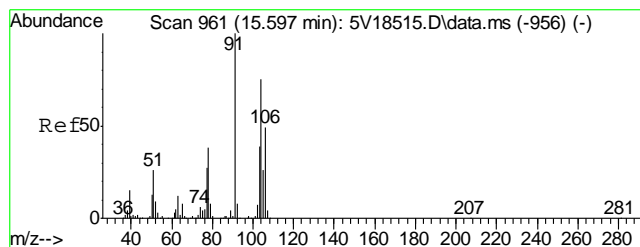
Tgt Ion:104 Resp: 2539
Ion Ratio Lower Upper
104 100
78 53.8 32.6 72.6



#72
m,p-xylene
Concen: 4.26 ug/l
RT: 15.255 min Scan# 931
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

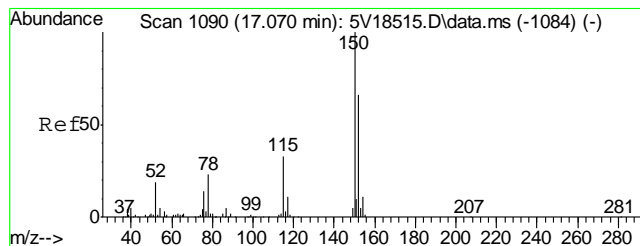
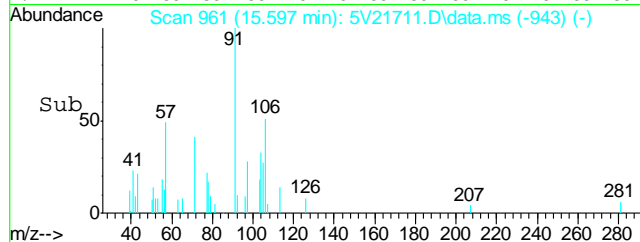
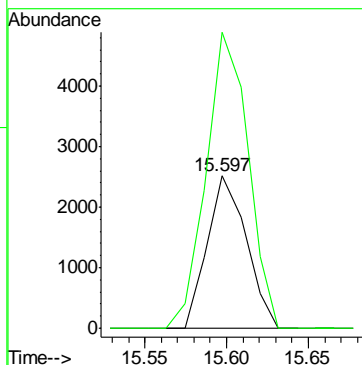
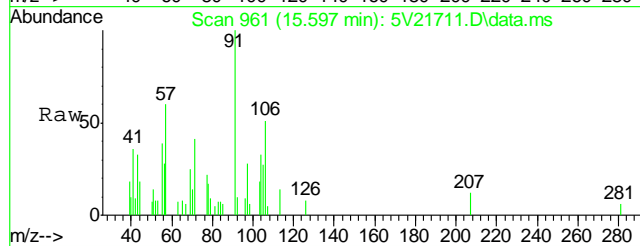
Tgt Ion:106 Resp: 31369
Ion Ratio Lower Upper
106 100
91 195.1 177.1 217.1





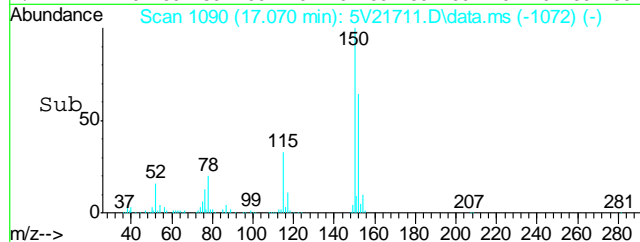
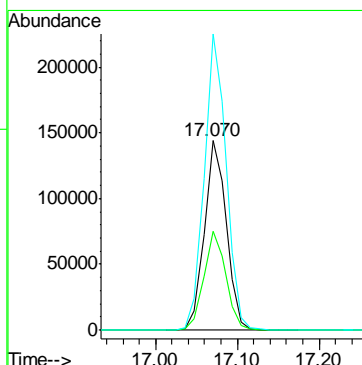
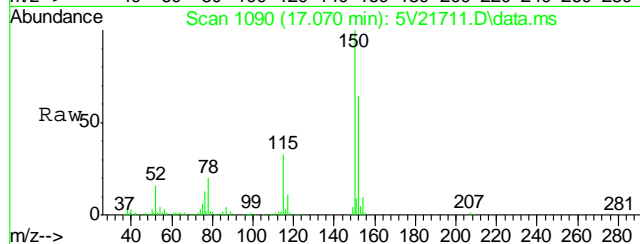
#73
o-xylene
Concen: 0.59 ug/l
RT: 15.597 min Scan# 961
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

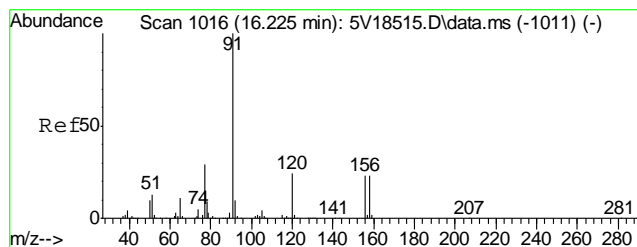
Tgt Ion	Ratio	Lower	Upper
106	100		
91	208.9	166.6	249.8



#74
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 17.070 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

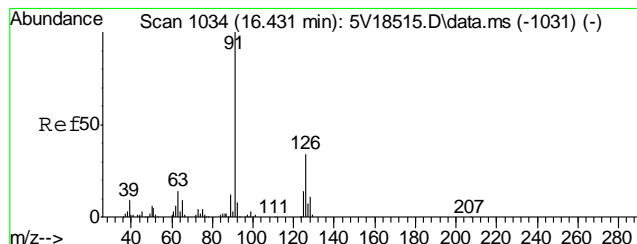
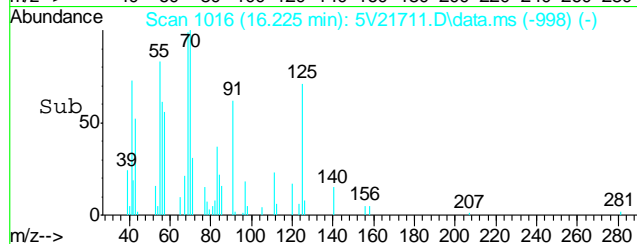
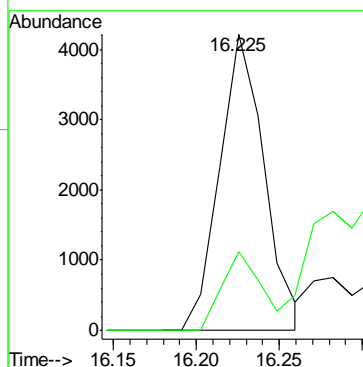
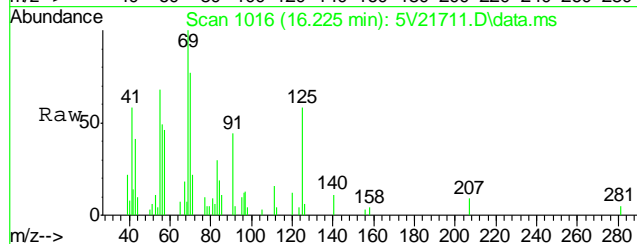
Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.9	41.4	62.0
150	155.5	153.9	230.9





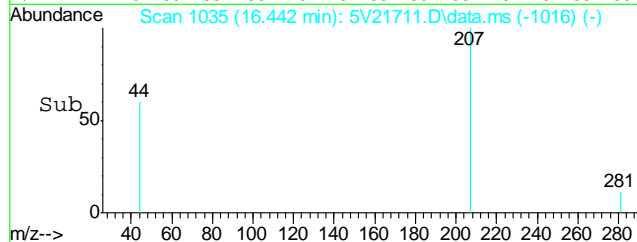
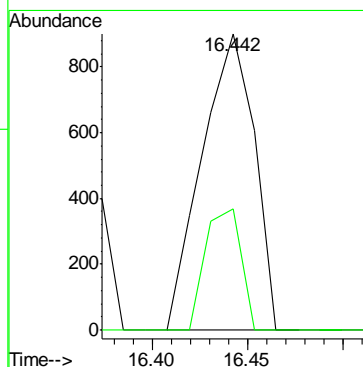
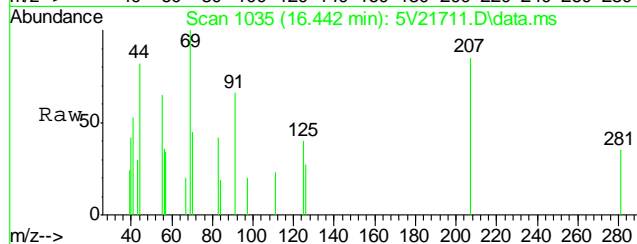
#77
n-Propylbenzene
Concen: 0.32 ug/l m
RT: 16.225 min Scan# 1016
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

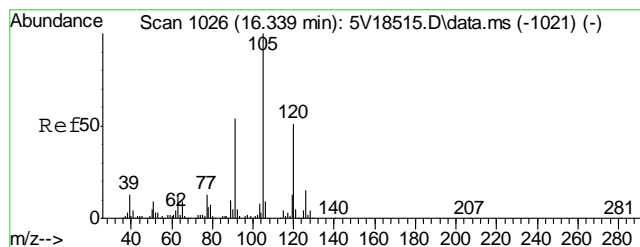
Tgt Ion: 91 Resp: 7854
Ion Ratio Lower Upper
91 100
120 23.5 18.6 27.8



#79
4-Chlorotoluene
Concen: 0.12 ug/l
RT: 16.442 min Scan# 1035
Delta R.T. 0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

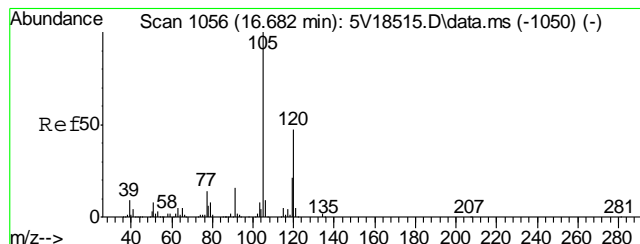
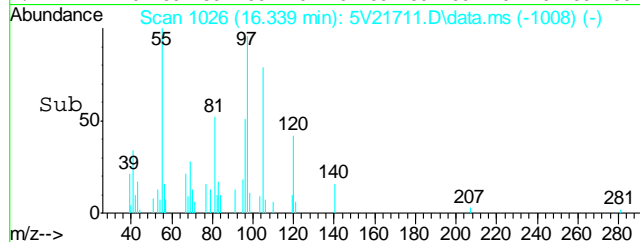
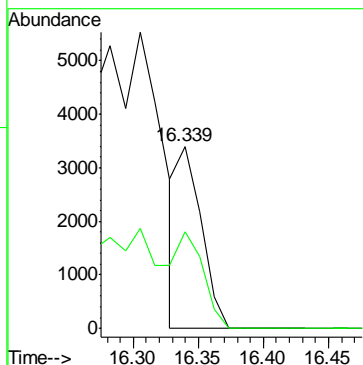
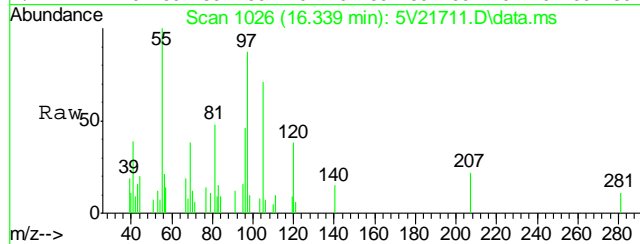
Tgt Ion: 91 Resp: 1723
Ion Ratio Lower Upper
91 100
126 27.8 28.4 42.6#





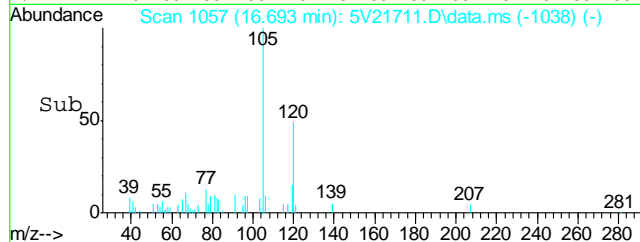
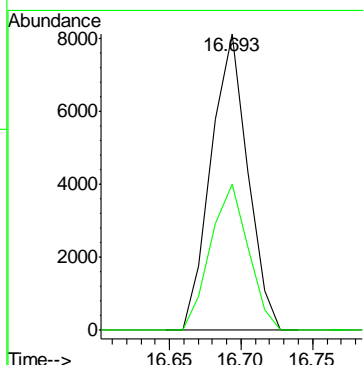
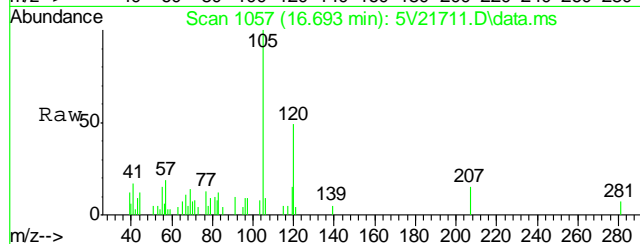
#80
1,3,5-Trimethylbenzene
Concen: 0.25 ug/l m
RT: 16.339 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

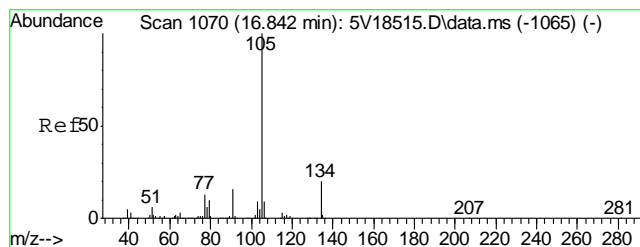
Tgt Ion:105 Resp: 4232
Ion Ratio Lower Upper
105 100
120 208.6 40.1 60.1#



#82
1,2,4-Trimethylbenzene
Concen: 0.83 ug/l
RT: 16.693 min Scan# 1057
Delta R.T. 0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

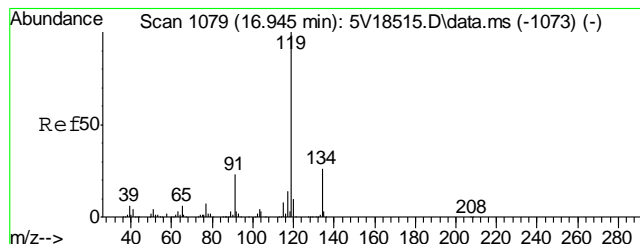
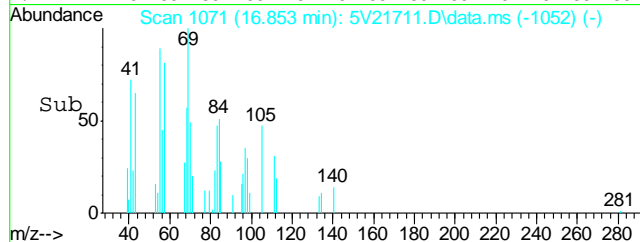
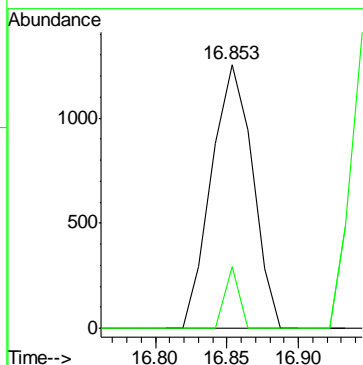
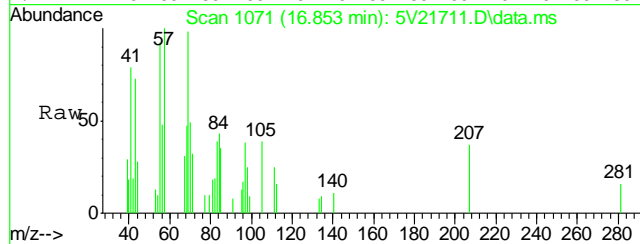
Tgt Ion:105 Resp: 14445
Ion Ratio Lower Upper
105 100
120 50.7 43.8 65.8





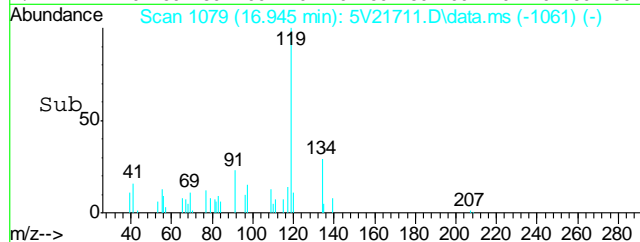
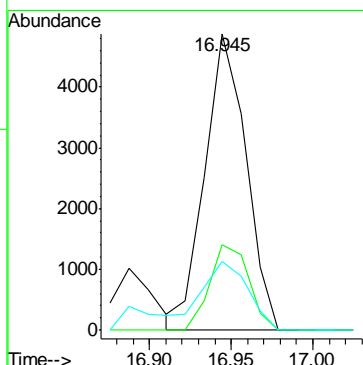
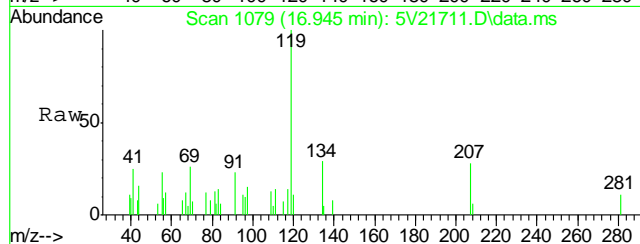
#83
 sec-Butylbenzene
 Concen: 0.10 ug/l
 RT: 16.853 min Scan# 1071
 Delta R.T. 0.011 min
 Lab File: 5V21711.D
 Acq: 4 Jun 2012 3:48 pm

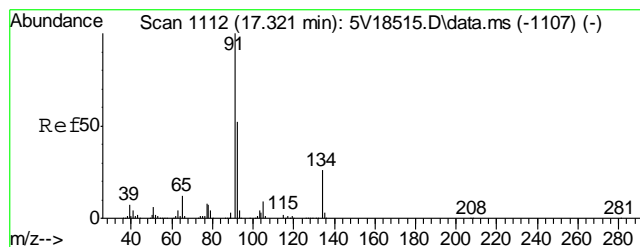
Tgt Ion	Ratio	Lower	Upper
105	100		
134	8.1	16.5	24.7#



#86
 p-Isopropyltoluene
 Concen: 0.44 ug/l
 RT: 16.945 min Scan# 1079
 Delta R.T. 0.000 min
 Lab File: 5V21711.D
 Acq: 4 Jun 2012 3:48 pm

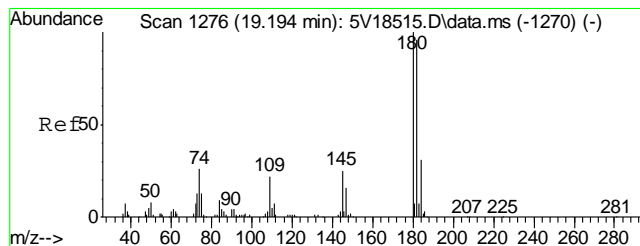
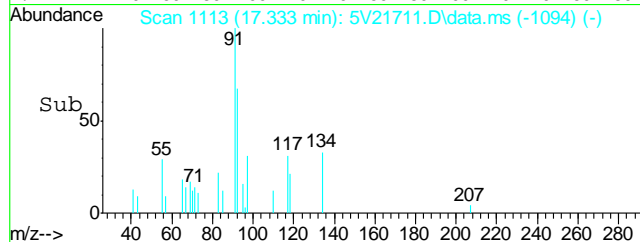
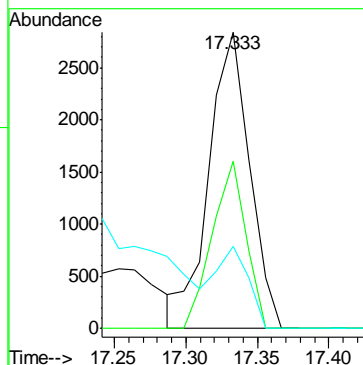
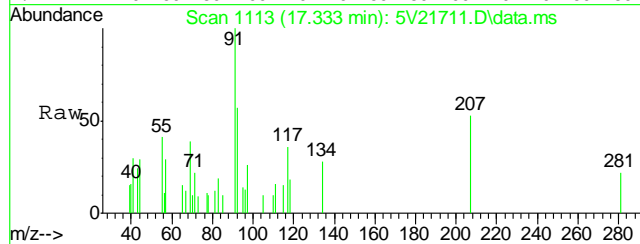
Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.4	21.3	31.9
91	33.7	19.0	28.6#





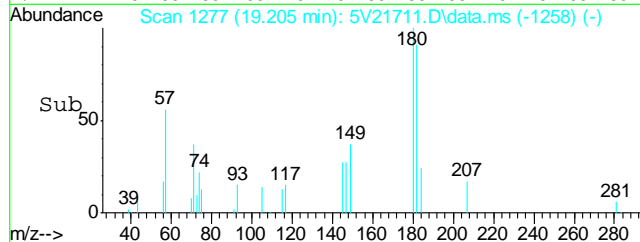
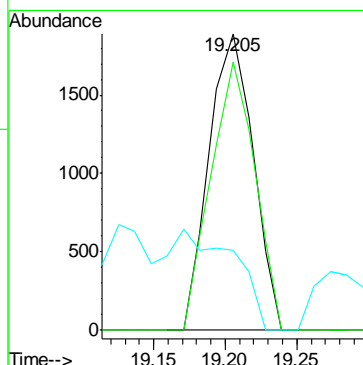
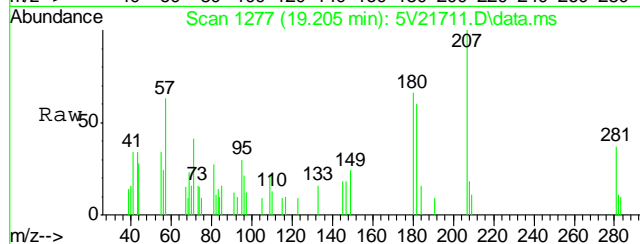
#88
n-Butylbenzene
Concen: 0.31 ug/l
RT: 17.333 min Scan# 1113
Delta R.T. 0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

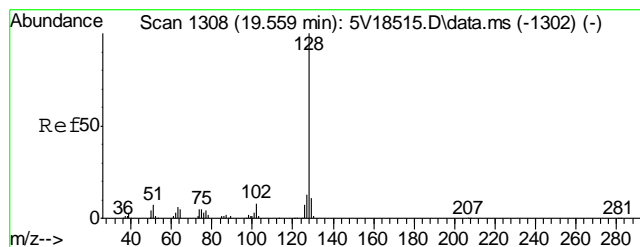
Tgt Ion	Ratio	Lower	Upper
91	100		
92	46.8	42.2	63.4
134	22.3	21.4	32.2



#90
1,2,4-Trichlorobenzene
Concen: 0.57 ug/l
RT: 19.205 min Scan# 1277
Delta R.T. 0.011 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

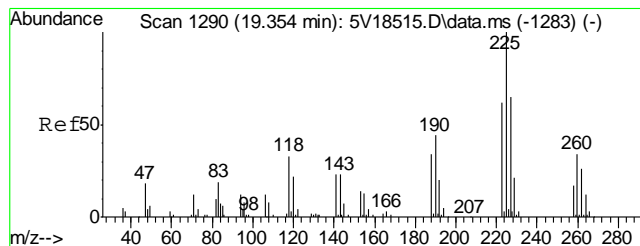
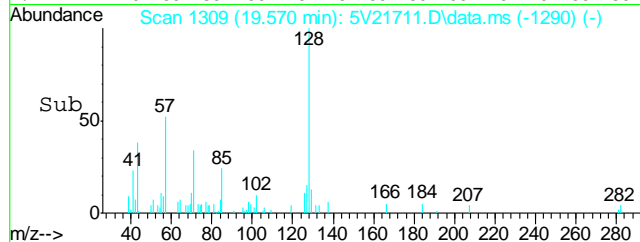
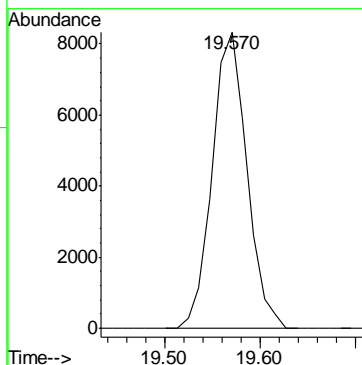
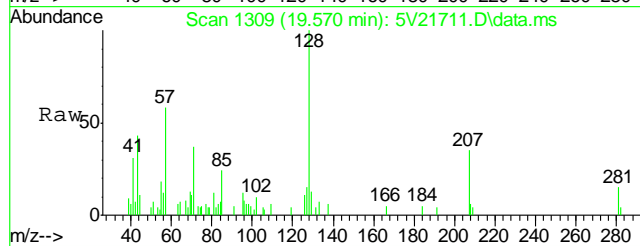
Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.4	76.2	114.4
145	43.3	20.1	30.1#





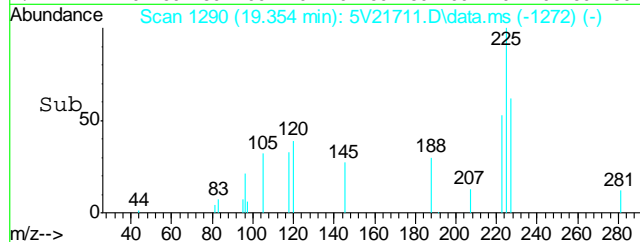
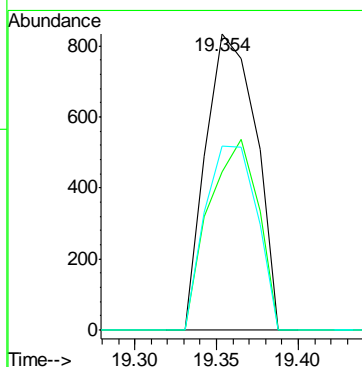
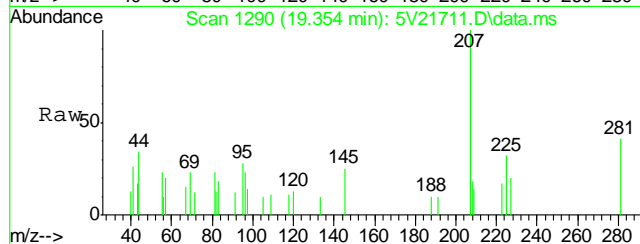
#91
Naphthalene
Concen: 2.10 ug/l
RT: 19.570 min Scan# 1309
Delta R.T. 0.012 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

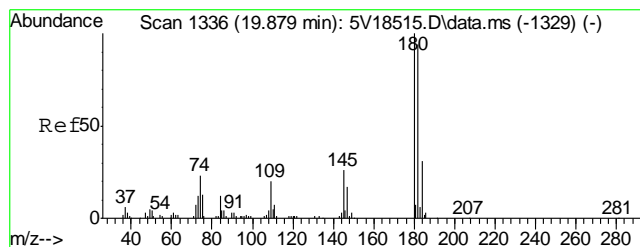
Tgt Ion:128 Resp: 21015



#92
Hexachlorobutadiene
Concen: 0.34 ug/l
RT: 19.354 min Scan# 1290
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

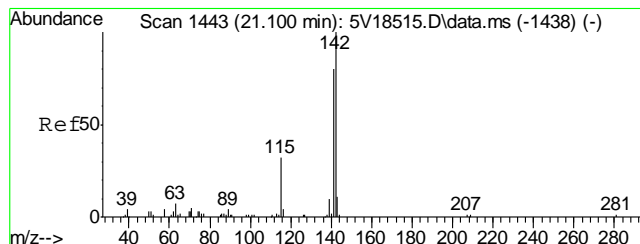
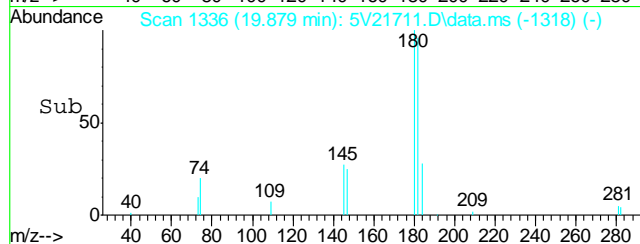
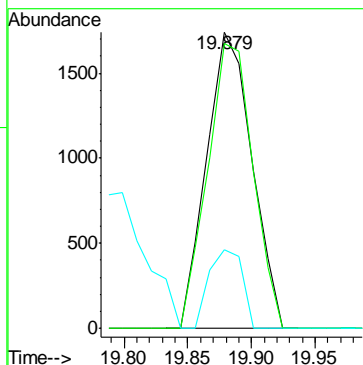
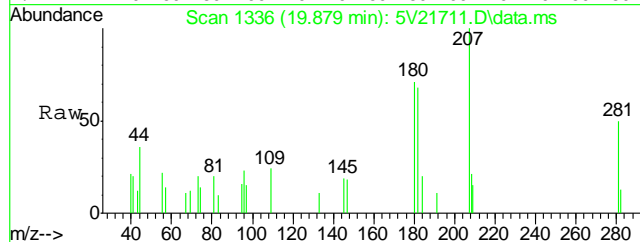
Tgt Ion:225 Resp: 1780
Ion Ratio Lower Upper
225 100
223 63.0 49.5 74.3
227 64.0 51.1 76.7





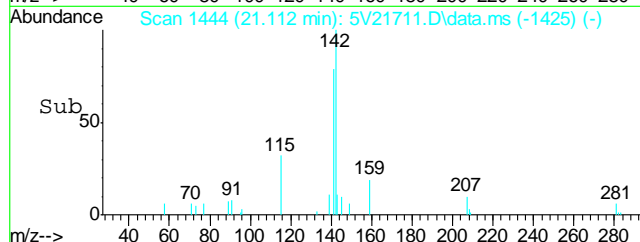
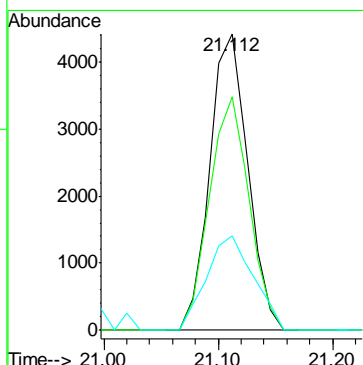
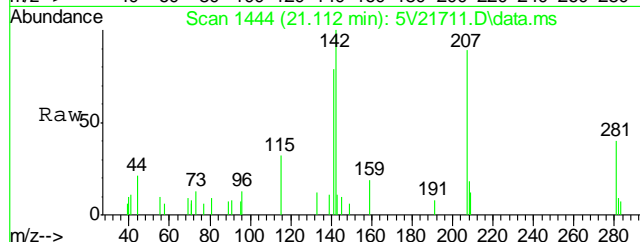
#93
1,2,3-Trichlorobenzene
Concen: 0.65 ug/l
RT: 19.879 min Scan# 1336
Delta R.T. 0.000 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

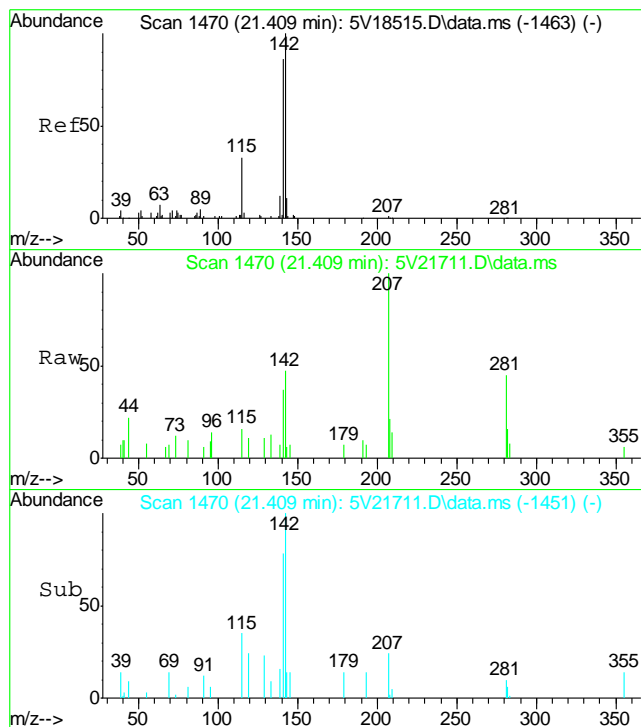
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.0	114.0
145	19.6	21.4	32.0#



#94
2-Methylnaphthalene
Concen: 3.16 ug/l
RT: 21.112 min Scan# 1444
Delta R.T. 0.012 min
Lab File: 5V21711.D
Acq: 4 Jun 2012 3:48 pm

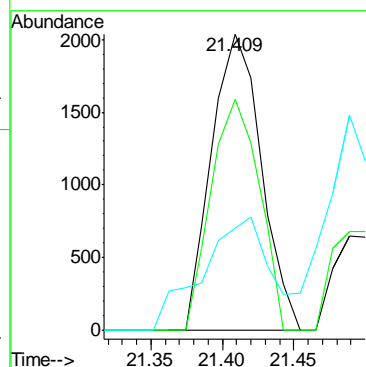
Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.0	66.2	99.4
115	39.3	25.9	38.9#





#95
 1-Methylnaphthalene
 Concen: 2.07 ug/l
 RT: 21.409 min Scan# 1470
 Delta R.T. 0.012 min
 Lab File: 5V21711.D
 Acq: 4 Jun 2012 3:48 pm

Tgt Ion	Ratio	Lower	Upper
142	100		
141	75.4	68.9	103.3
115	51.1	27.3	40.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5060412.S\
 Data File : 5V21708.D
 Acq On : 4 Jun 2012 2:01 pm
 Operator : BRETD
 Sample : D35038-3
 Misc : MS4023,V5V1323,5.008,,100,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 09:02:39 2012
 Quant Method : C:\msdchem\1\METHODS\V5AP1304TVH1304.M
 Quant Title : 8260
 QLast Update : Thu May 24 07:55:17 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.647	168	214187	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.446	114	327765	50.00	ug/l	0.00
53) Chlorobenzene-d5	15.095	117	386286	50.00	ug/l	0.00
74) 1,4-Dichlorobenzene-d4	17.070	152	270405	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	12.035	102	30752	46.68	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.36%
61) Toluene-d8	13.850	98	581585	44.55	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.10%
69) 4-Bromofluorobenzene	16.042	95	262904	49.16	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.32%

Target Compounds

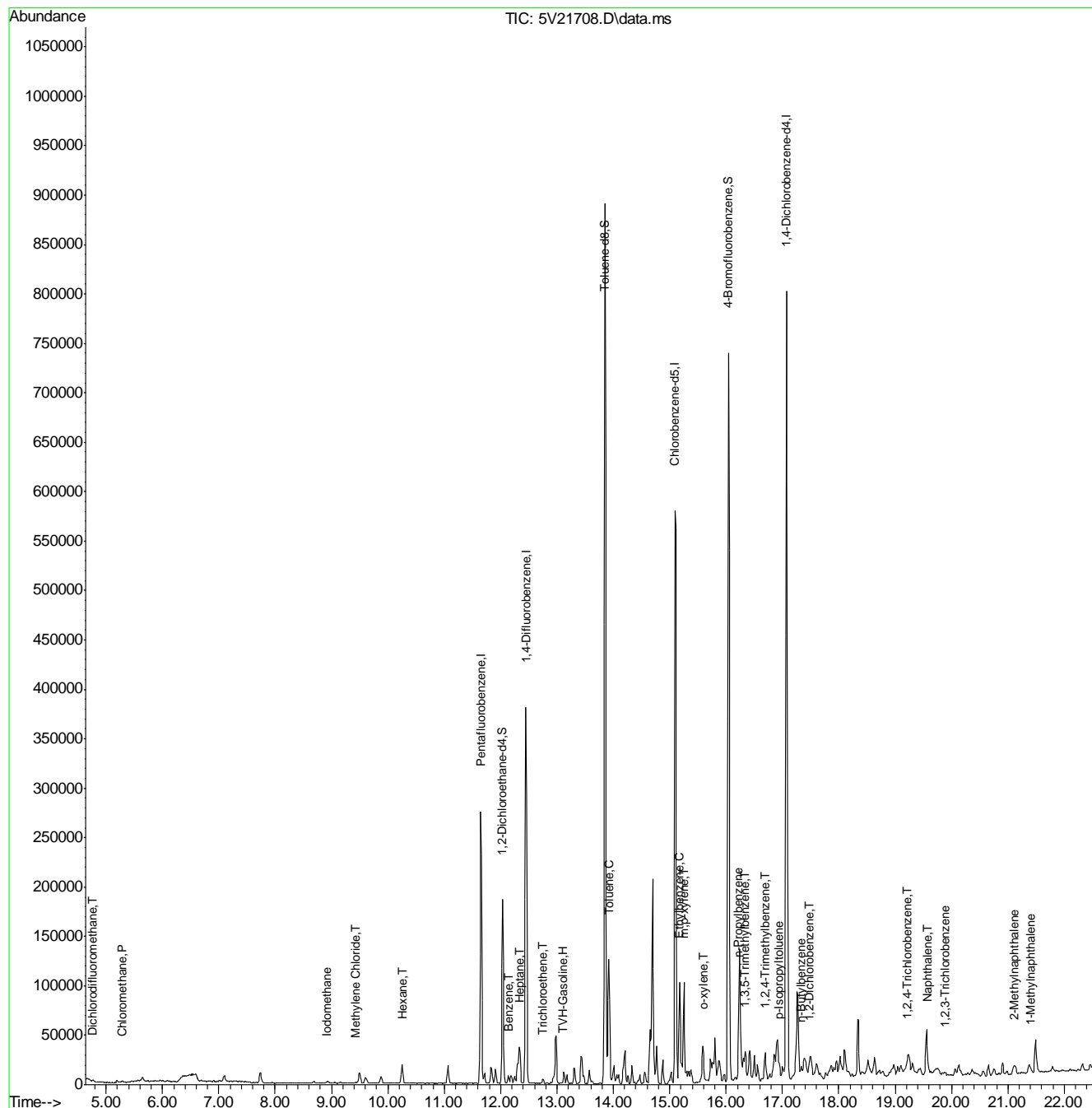
					Qvalue
1) TVH-Gasoline	13.102	TIC	2420755m	122.14	ug/l
3) Dichlorodifluoromethane	4.763	85	1688	0.86	ug/l # 60
4) Chloromethane	5.288	50	1723	0.54	ug/l 83
12) Iodomethane	8.918	142	2421	1.78	ug/l # 72
17) Methylene Chloride	9.421	84	425	0.12	ug/l # 22
41) Hexane	10.254	57	10757	2.37	ug/l 100
43) Heptane	12.332	43	14962	3.08	ug/l 90
48) Trichloroethene	12.754	95	1723	0.47	ug/l 94
50) Benzene	12.138	78	6703	0.49	ug/l 100
62) Toluene	13.919	92	33373	3.32	ug/l 99
66) Ethylbenzene	15.175	91	18687	1.00	ug/l 100
72) m,p-xylene	15.255	106	29855	4.01	ug/l 96
73) o-xylene	15.597	106	3538	0.49	ug/l 96
77) n-Propylbenzene	16.225	91	7406	0.30	ug/l # 90
80) 1,3,5-Trimethylbenzene	16.339	105	3321m	0.19	ug/l
82) 1,2,4-Trimethylbenzene	16.693	105	11069	0.64	ug/l 93
86) p-Isopropyltoluene	16.944	119	7787	0.40	ug/l 97
87) 1,2-Dichlorobenzene	17.470	146	1306	0.13	ug/l # 41
88) n-Butylbenzene	17.333	91	4832	0.27	ug/l # 94
90) 1,2,4-Trichlorobenzene	19.205	180	3046	0.43	ug/l # 70
91) Naphthalene	19.570	128	17909	1.87	ug/l 100
93) 1,2,3-Trichlorobenzene	19.879	180	3444	0.52	ug/l # 92
94) 2-Methylnaphthalene	21.112	142	7370	2.65	ug/l 91
95) 1-Methylnaphthalene	21.408	142	3804	1.87	ug/l # 88

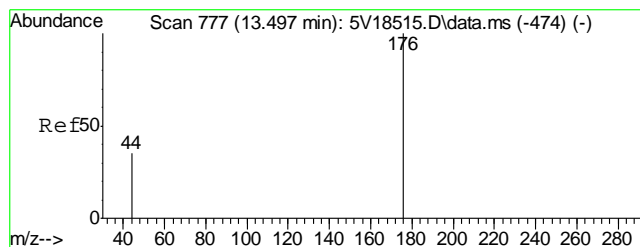
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5060412.S\
Data File : 5V21708.D
Acq On : 4 Jun 2012 2:01 pm
Operator : BRETD
Sample : D35038-3
Misc : MS4023,V5V1323,5.008,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

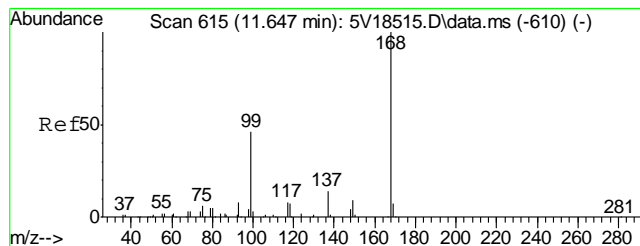
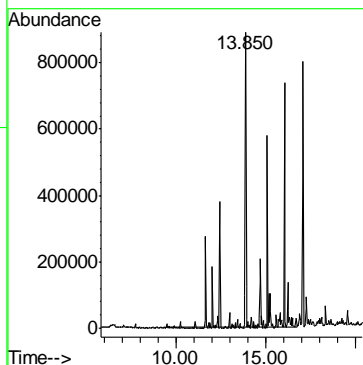
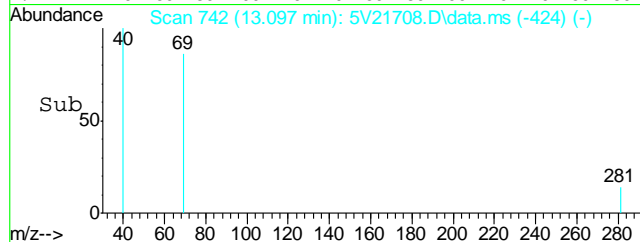
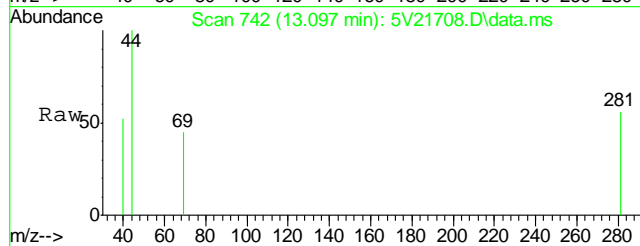
Quant Time: Jun 05 09:02:39 2012
Quant Method : C:\msdchem\1\METHODS\V5AP1304TVH1304.M
Quant Title : 8260
QLast Update : Thu May 24 07:55:17 2012
Response via : Initial Calibration





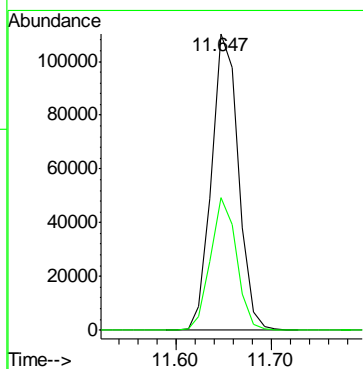
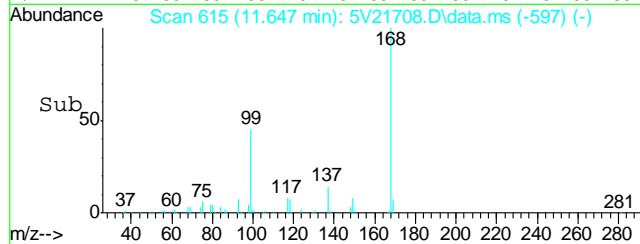
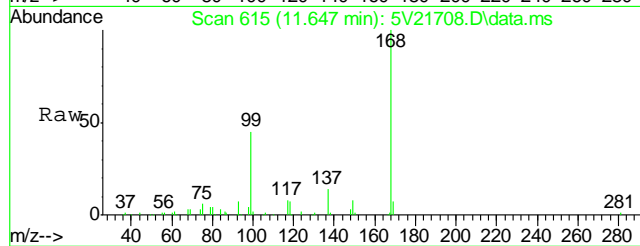
#1
TVH-Gasoline
Concen: 122.14 ug/l m
RT: 13.102 min Scan# 742
Delta R.T. 0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

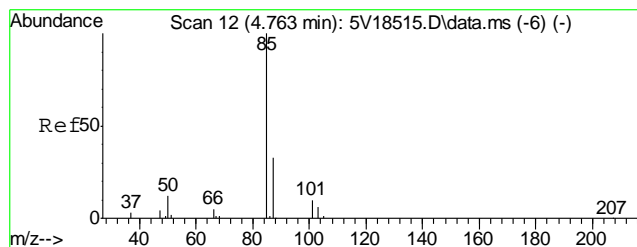
Tgt Ion:TIC Resp: 2420755



#2
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.647 min Scan# 615
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

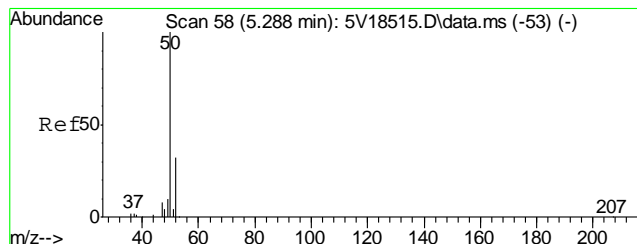
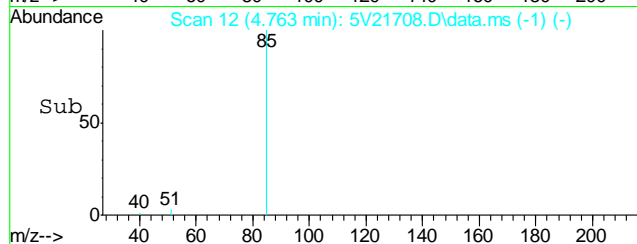
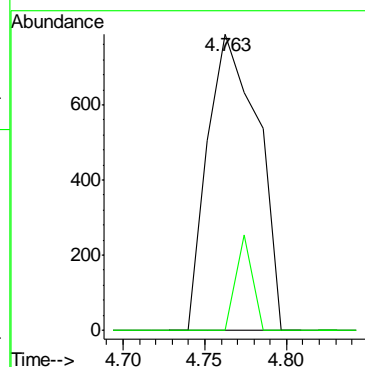
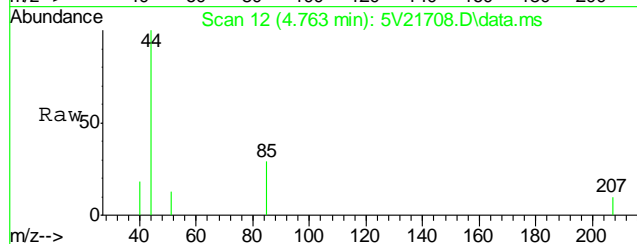
Tgt Ion:168 Resp: 214187
Ion Ratio Lower Upper
168 100
99 43.6 37.4 56.2





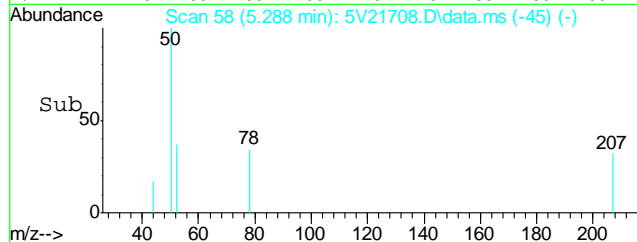
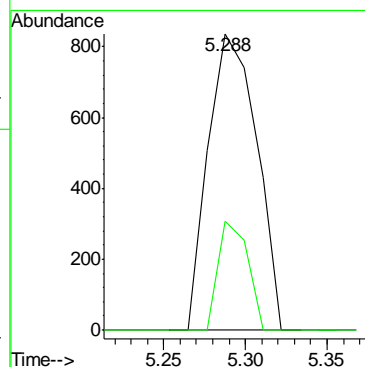
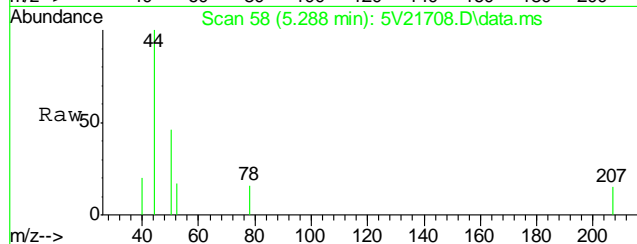
#3
 Dichlorodifluoromethane
 Concen: 0.86 ug/l
 RT: 4.763 min Scan# 12
 Delta R.T. 0.001 min
 Lab File: 5V21708.D
 Acq: 4 Jun 2012 2:01 pm

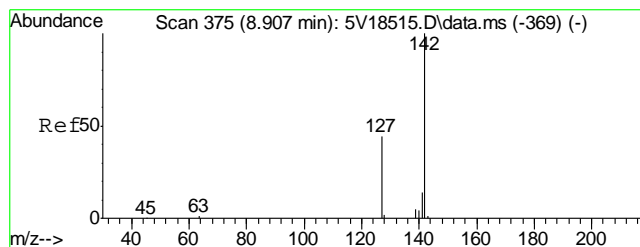
Tgt Ion: 85 Resp: 1688
 Ion Ratio Lower Upper
 85 100
 87 10.3 12.9 52.9#



#4
 Chloromethane
 Concen: 0.54 ug/l
 RT: 5.288 min Scan# 58
 Delta R.T. -0.000 min
 Lab File: 5V21708.D
 Acq: 4 Jun 2012 2:01 pm

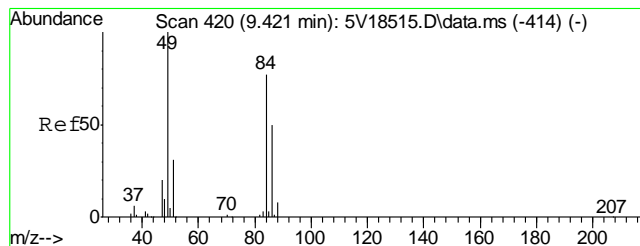
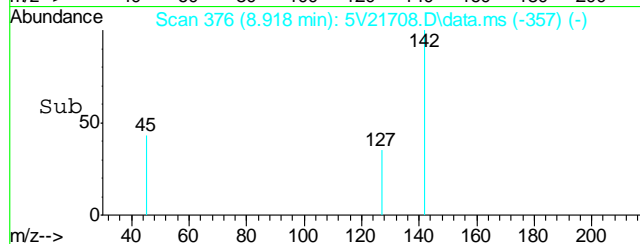
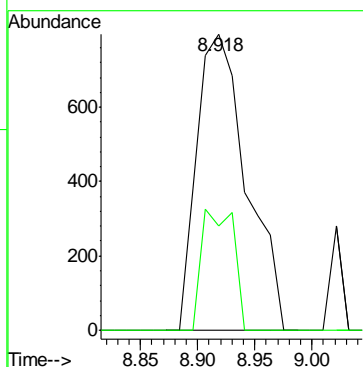
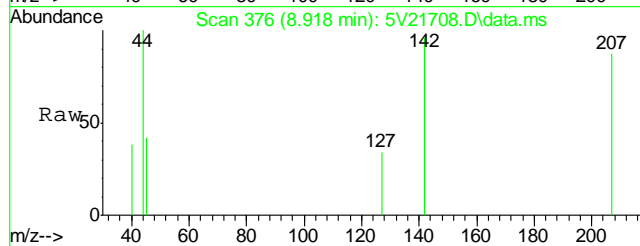
Tgt Ion: 50 Resp: 1723
 Ion Ratio Lower Upper
 50 100
 52 22.4 12.1 52.1





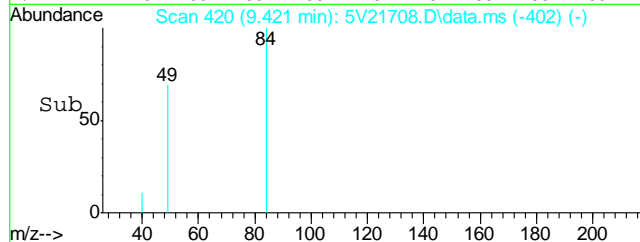
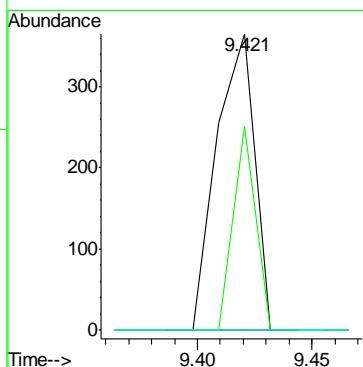
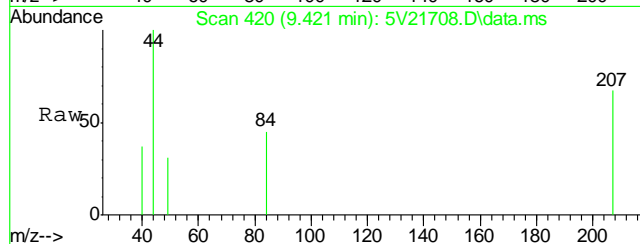
#12
Iodomethane
Concen: 1.78 ug/l
RT: 8.918 min Scan# 376
Delta R.T. 0.011 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

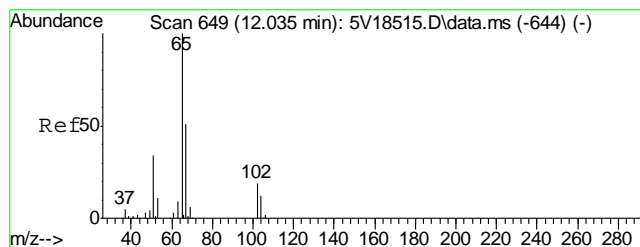
Tgt Ion: 142 Resp: 2421
Ion Ratio Lower Upper
142 100
127 26.1 35.4 53.0#



#17
Methylene Chloride
Concen: 0.12 ug/l
RT: 9.421 min Scan# 420
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

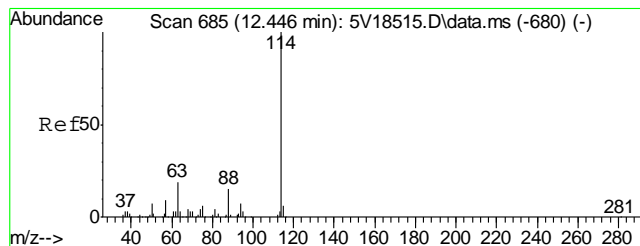
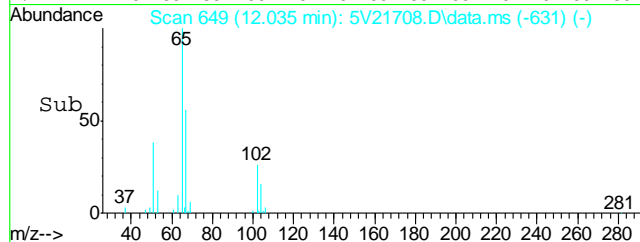
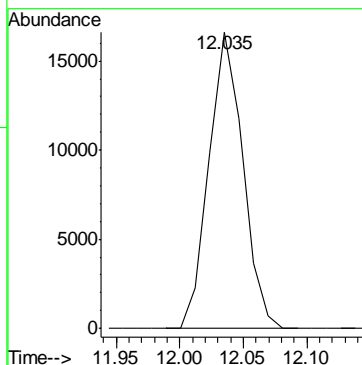
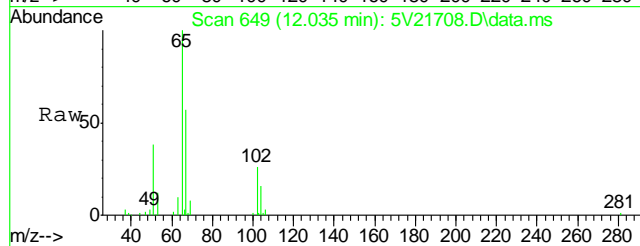
Tgt Ion: 84 Resp: 425
Ion Ratio Lower Upper
84 100
49 40.7 110.4 150.4#
86 0.0 44.0 84.0#





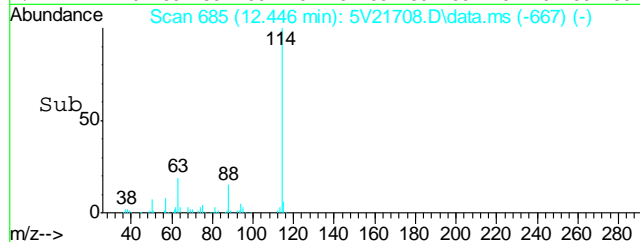
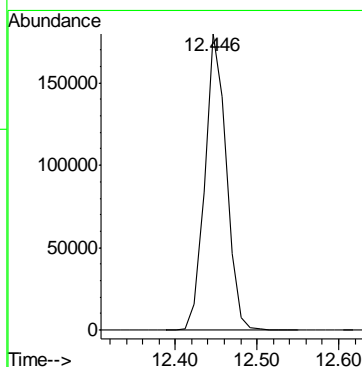
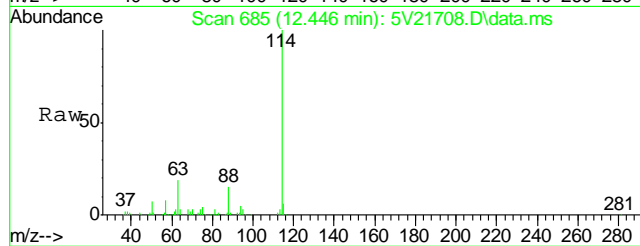
#33
1,2-Dichloroethane-d4
Concen: 46.68 ug/l
RT: 12.035 min Scan# 649
Delta R.T. 0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

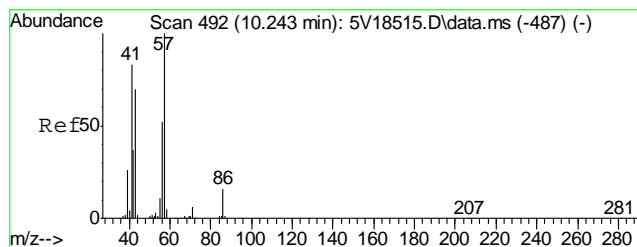
Tgt Ion:102 Resp: 30752



#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.446 min Scan# 685
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

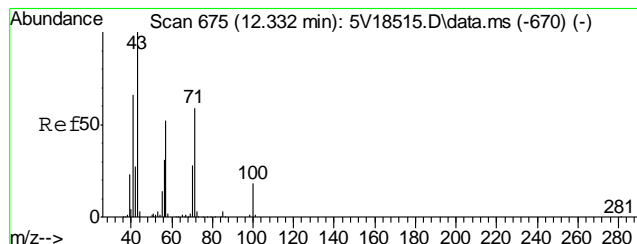
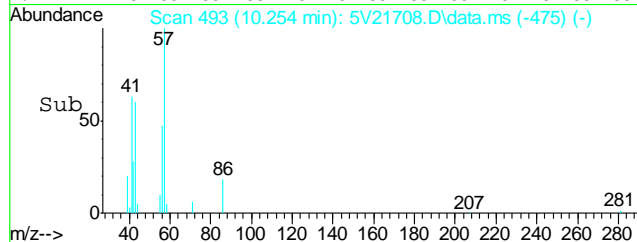
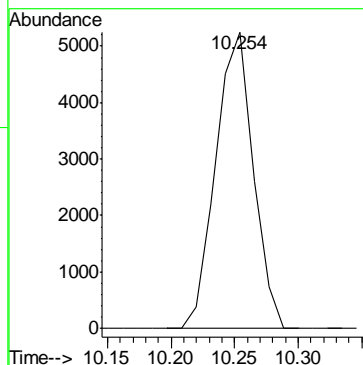
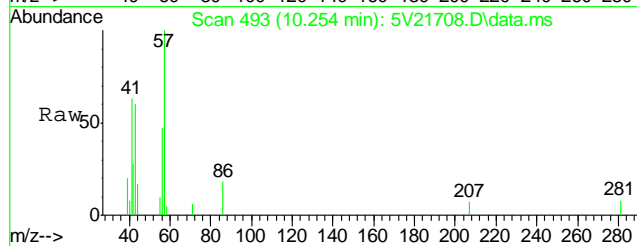
Tgt Ion:114 Resp: 327765





#41
Hexane
Concen: 2.37 ug/l
RT: 10.254 min Scan# 493
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

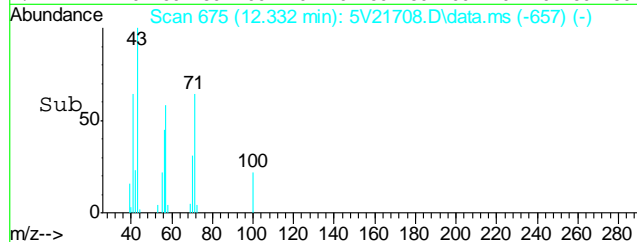
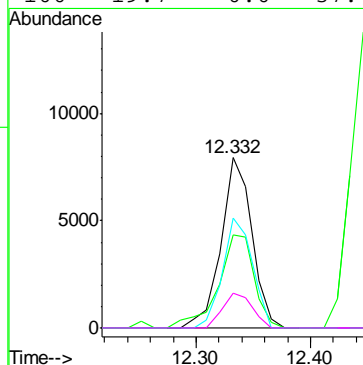
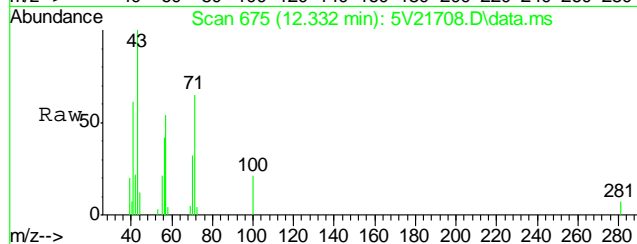
Tgt Ion: 57 Resp: 10757

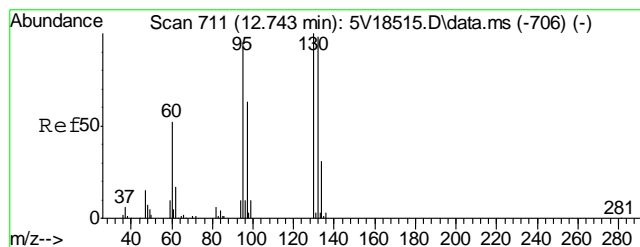


#43
Heptane
Concen: 3.08 ug/l
RT: 12.332 min Scan# 675
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

Tgt Ion: 43 Resp: 14962

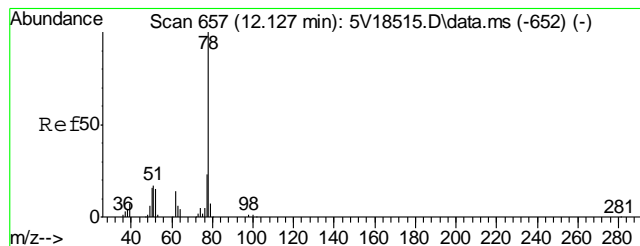
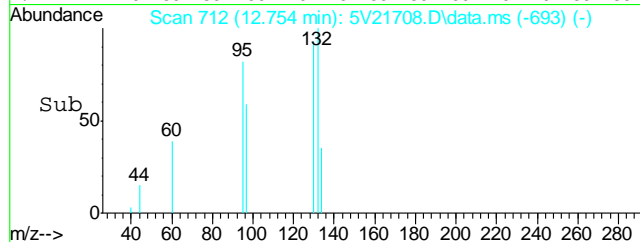
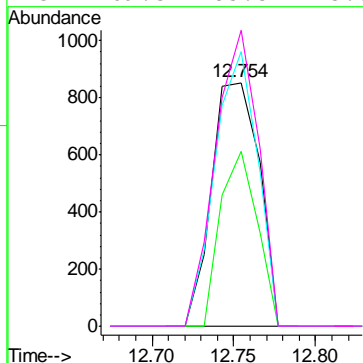
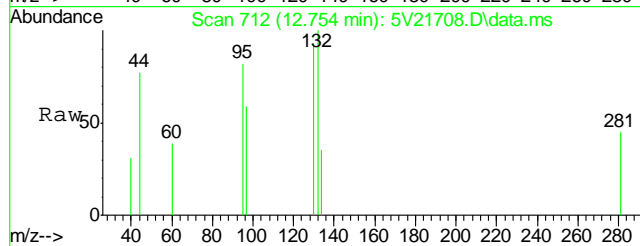
Ion	Ratio	Lower	Upper
43	100		
57	63.4	30.6	70.6
71	62.4	38.9	78.9
100	19.7	0.0	37.4





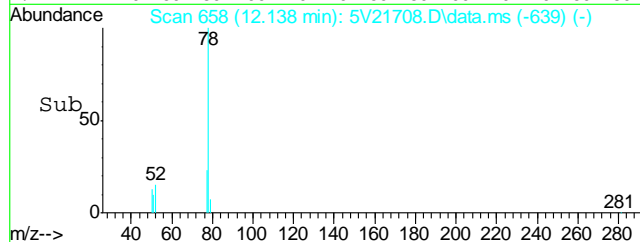
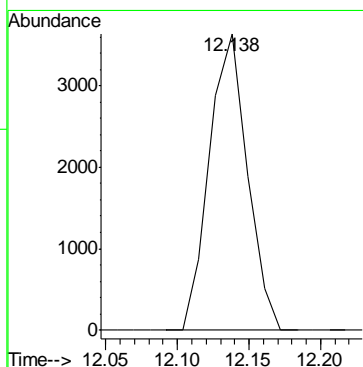
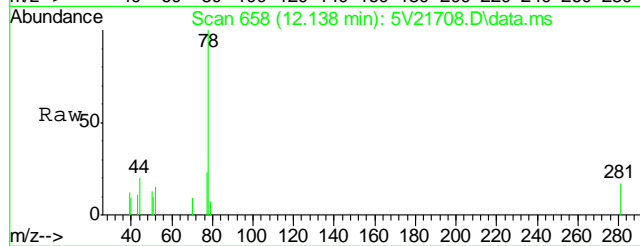
#48
Trichloroethene
Concen: 0.47 ug/l
RT: 12.754 min Scan# 712
Delta R.T. 0.011 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

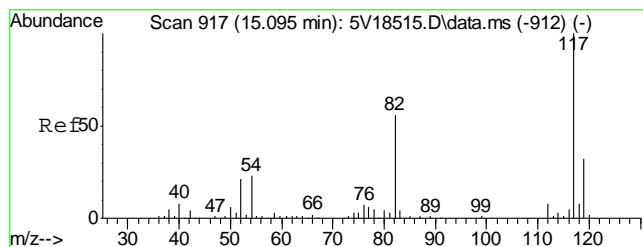
Tgt Ion	Ratio	Lower	Upper
95	100		
97	55.6	47.1	87.1
130	100.9	85.2	125.2
132	109.3	85.5	125.5



#50
Benzene
Concen: 0.49 ug/l
RT: 12.138 min Scan# 658
Delta R.T. 0.011 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

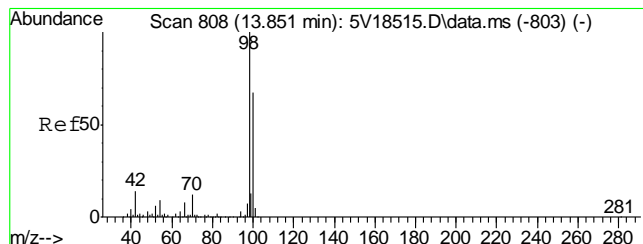
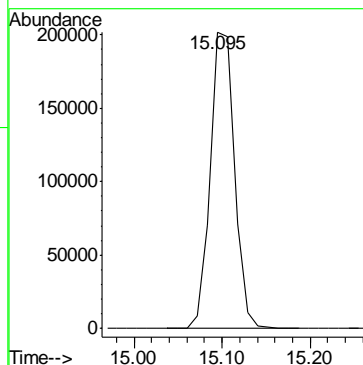
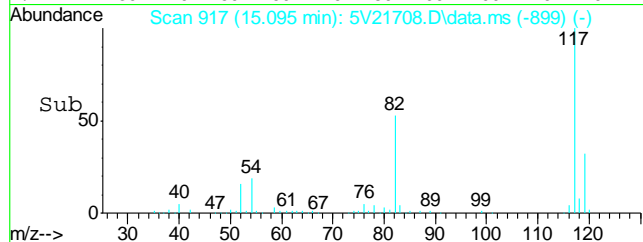
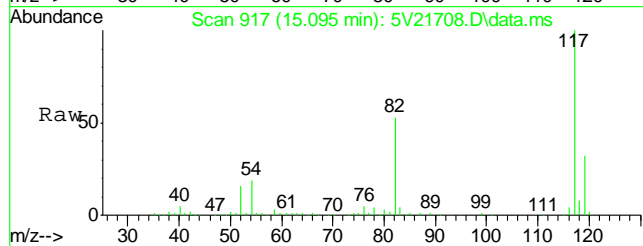
Tgt Ion: 78 Resp: 6703





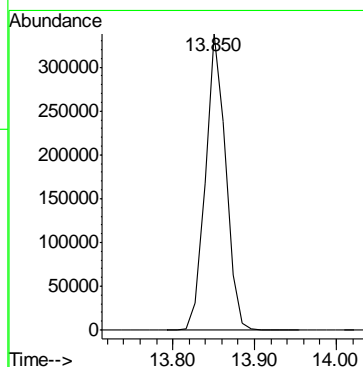
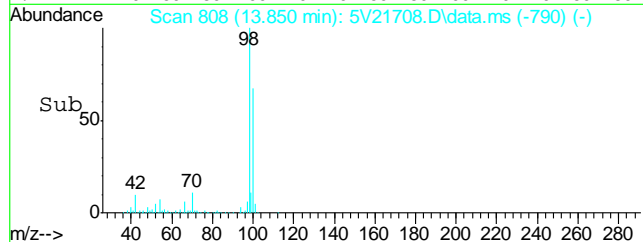
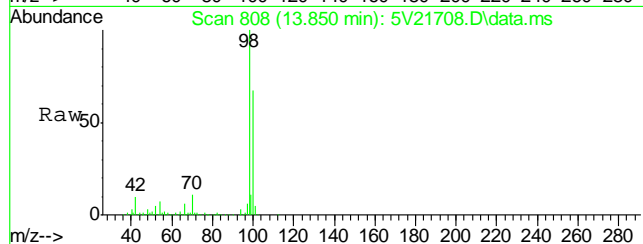
#53
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 15.095 min Scan# 917
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

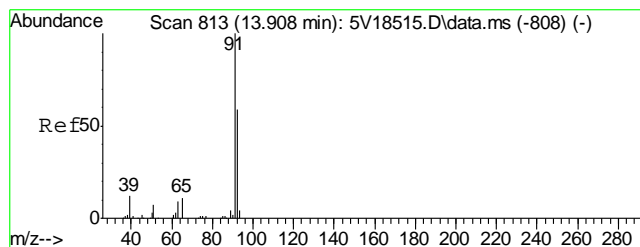
Tgt Ion: 117 Resp: 386286



#61
Toluene-d8
Concen: 44.55 ug/l
RT: 13.850 min Scan# 808
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

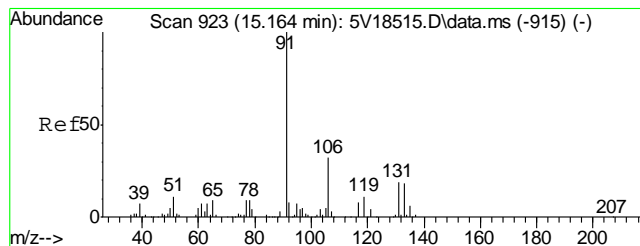
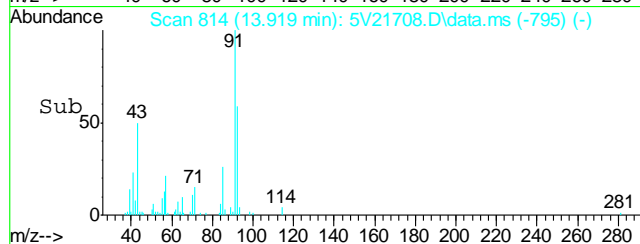
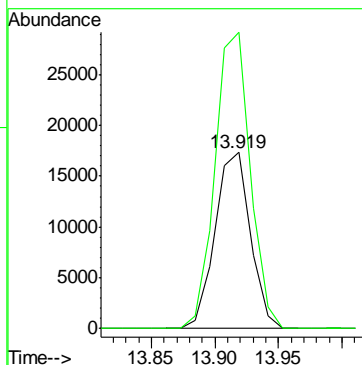
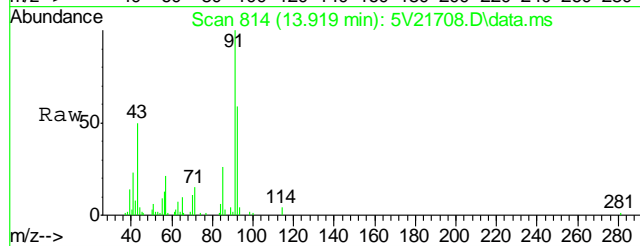
Tgt Ion: 98 Resp: 581585





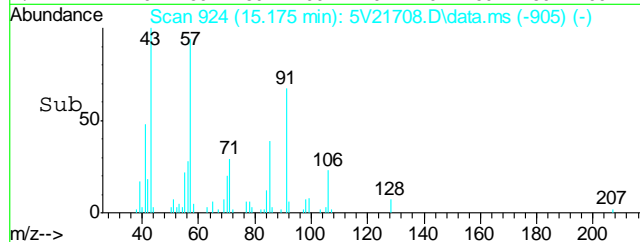
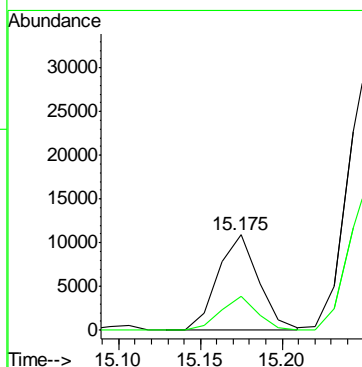
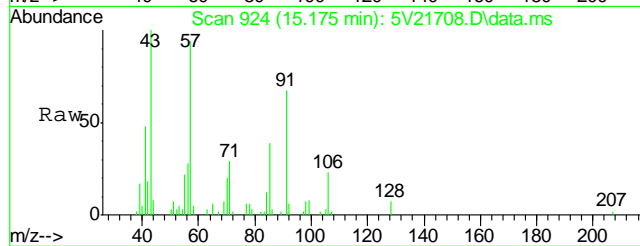
#62
Toluene
Concen: 3.32 ug/l
RT: 13.919 min Scan# 814
Delta R.T. 0.011 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

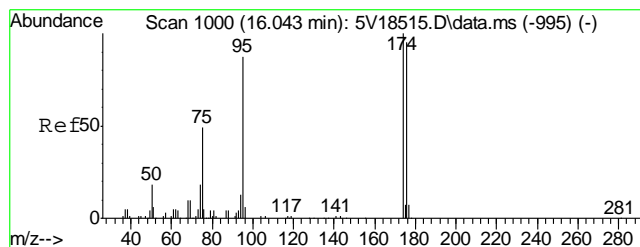
Tgt Ion: 92 Resp: 33373
Ion Ratio Lower Upper
92 100
91 167.9 149.8 189.8



#66
Ethylbenzene
Concen: 1.00 ug/l
RT: 15.175 min Scan# 924
Delta R.T. 0.011 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

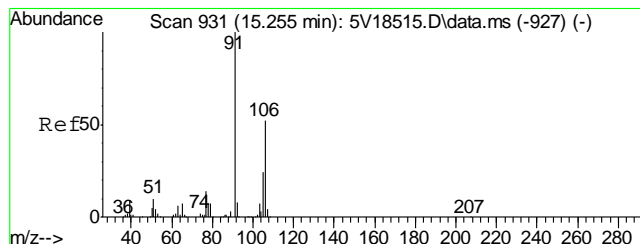
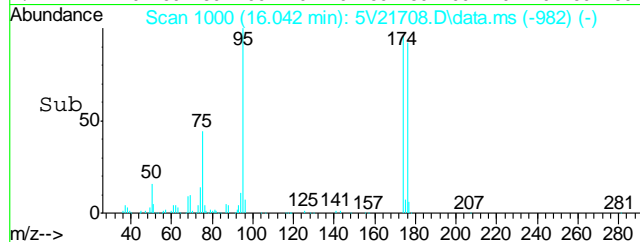
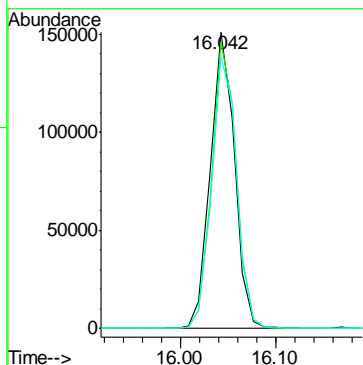
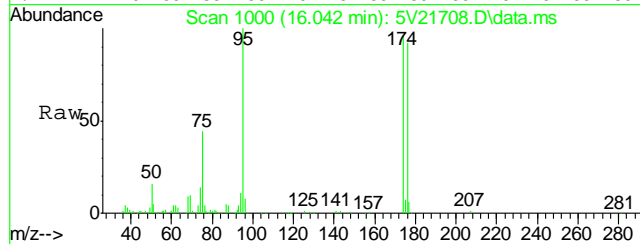
Tgt Ion: 91 Resp: 18687
Ion Ratio Lower Upper
91 100
106 31.7 11.7 51.7





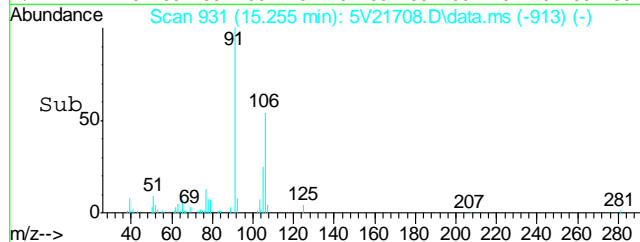
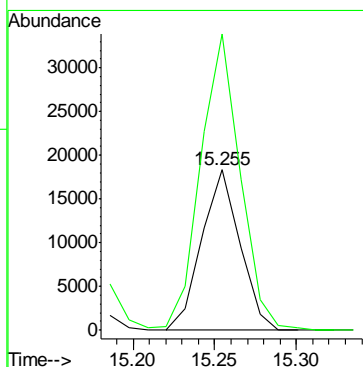
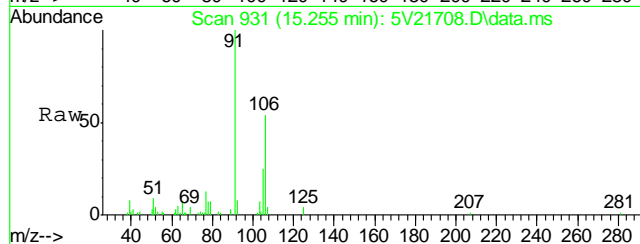
#69
4-Bromofluorobenzene
Concen: 49.16 ug/l
RT: 16.042 min Scan# 1000
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

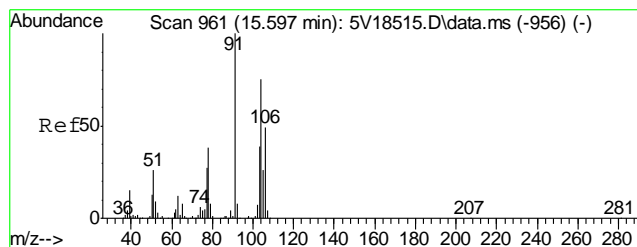
Tgt Ion	Ratio	Lower	Upper
95	100		
174	98.1	77.1	117.1
176	94.7	73.4	113.4



#72
m,p-xylene
Concen: 4.01 ug/l
RT: 15.255 min Scan# 931
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

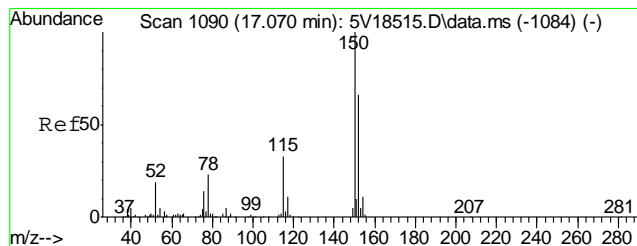
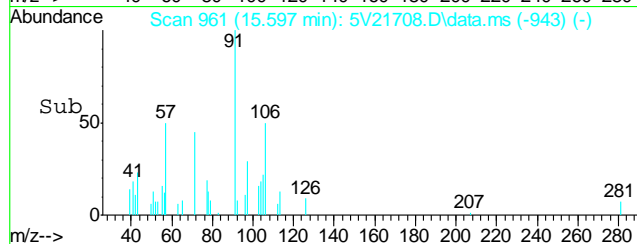
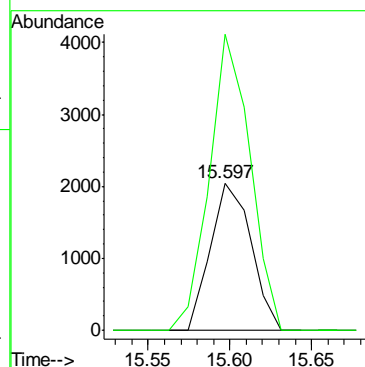
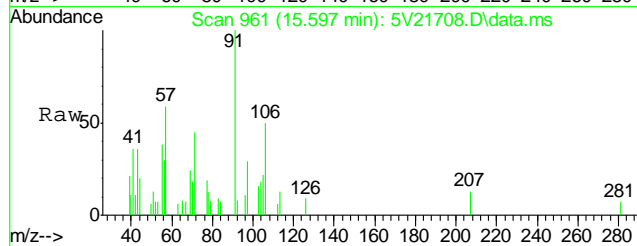
Tgt Ion	Ratio	Lower	Upper
106	100		
91	191.4	177.1	217.1





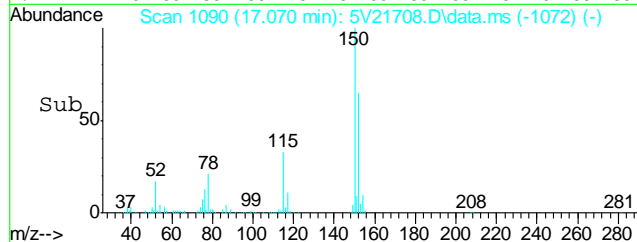
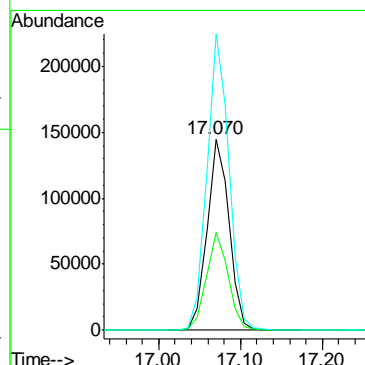
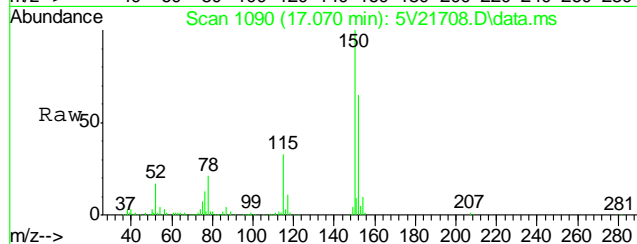
#73
o-xylene
Concen: 0.49 ug/l
RT: 15.597 min Scan# 961
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

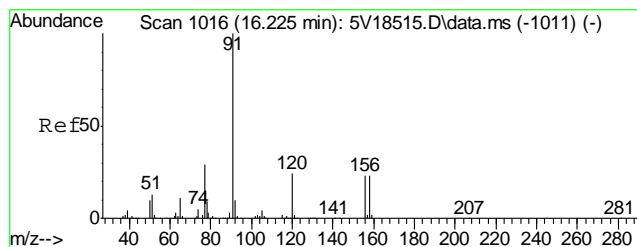
Tgt Ion:106 Resp: 3538
Ion Ratio Lower Upper
106 100
91 201.4 166.6 249.8



#74
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 17.070 min Scan# 1090
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

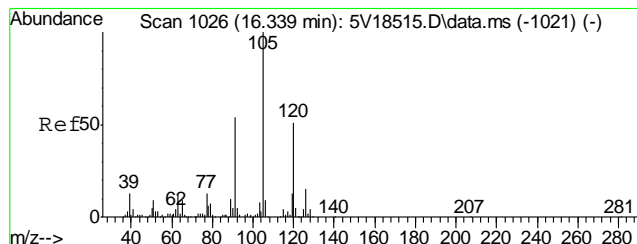
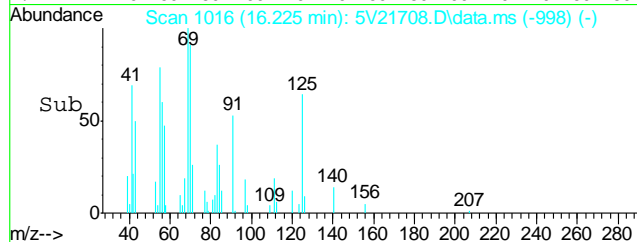
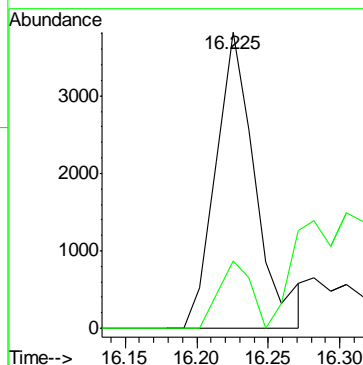
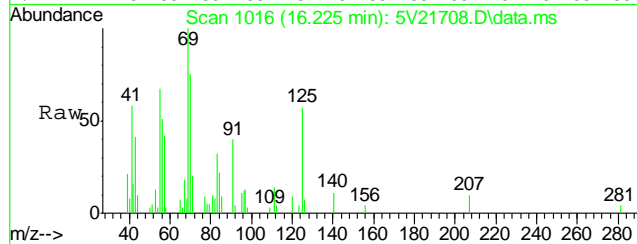
Tgt Ion:152 Resp: 270405
Ion Ratio Lower Upper
152 100
115 50.8 41.4 62.0
150 154.9 153.9 230.9





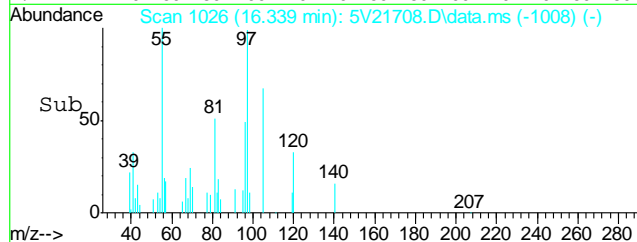
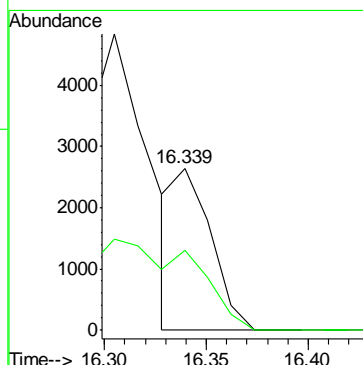
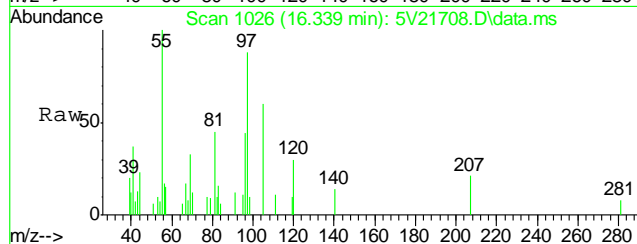
#77
n-Propylbenzene
Concen: 0.30 ug/l
RT: 16.225 min Scan# 1016
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

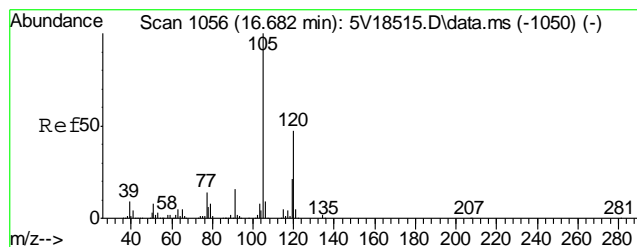
Tgt Ion: 91 Resp: 7406
Ion Ratio Lower Upper
91 100
120 18.1 18.6 27.8#



#80
1,3,5-Trimethylbenzene
Concen: 0.19 ug/l m
RT: 16.339 min Scan# 1026
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

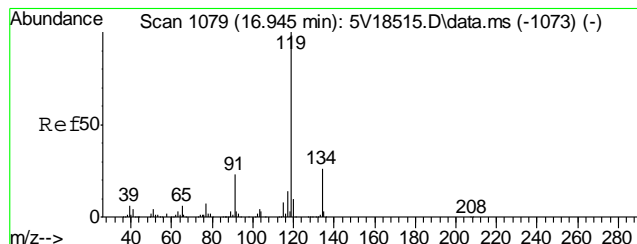
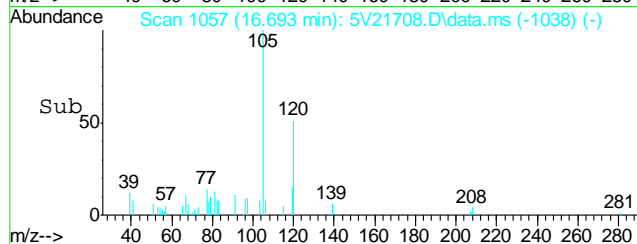
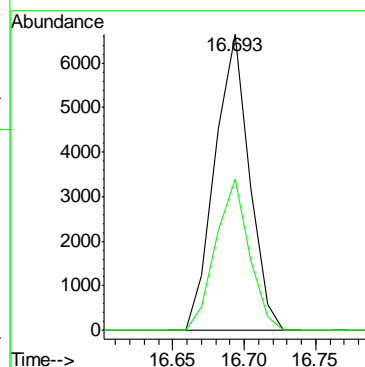
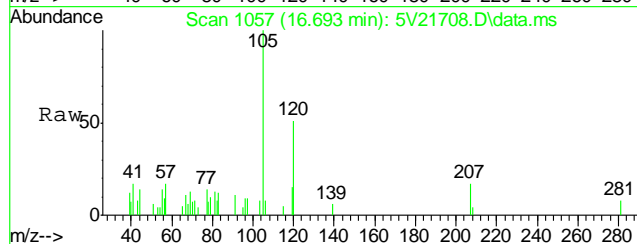
Tgt Ion: 105 Resp: 3321
Ion Ratio Lower Upper
105 100
120 212.9 40.1 60.1#





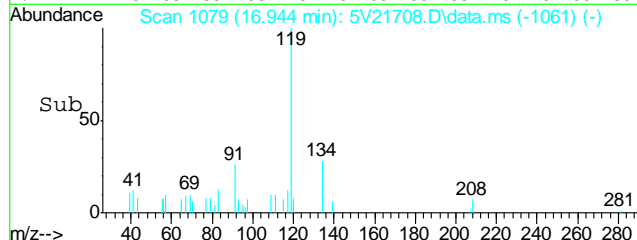
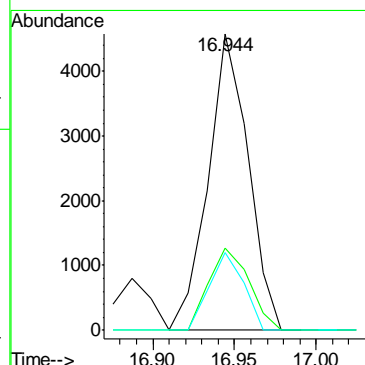
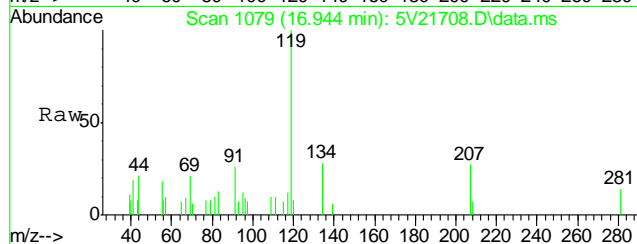
#82
1,2,4-Trimethylbenzene
Concen: 0.64 ug/l
RT: 16.693 min Scan# 1057
Delta R.T. 0.011 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

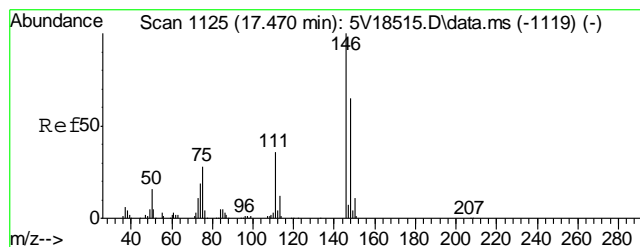
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.8	43.8	65.8



#86
p-Isopropyltoluene
Concen: 0.40 ug/l
RT: 16.944 min Scan# 1079
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

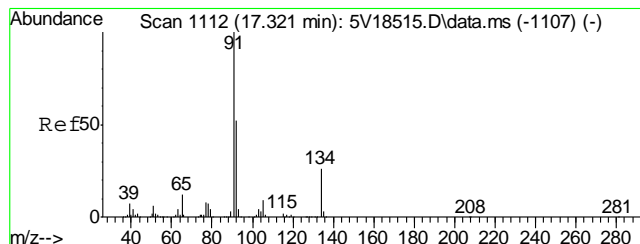
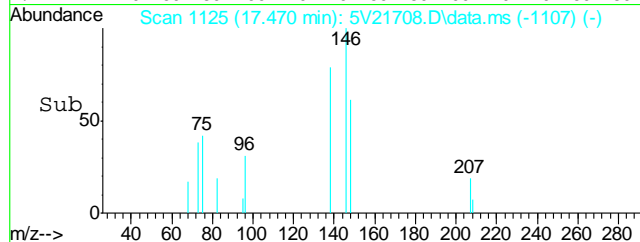
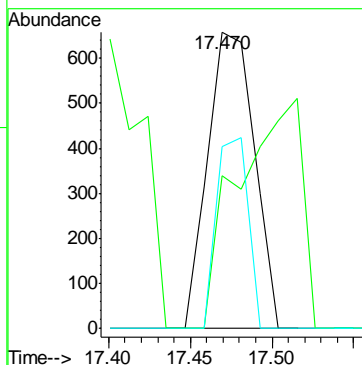
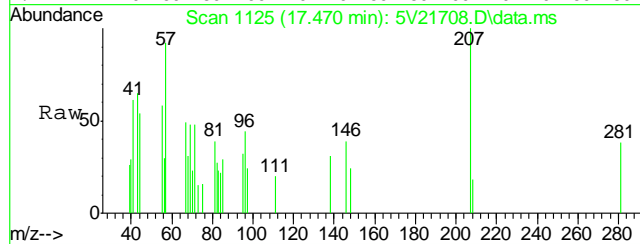
Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.9	21.3	31.9
91	22.3	19.0	28.6





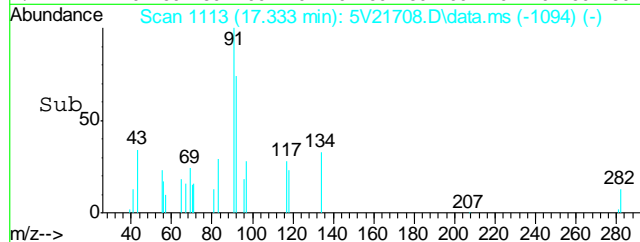
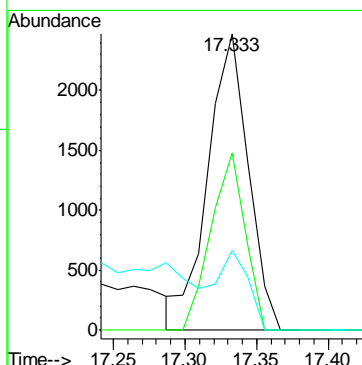
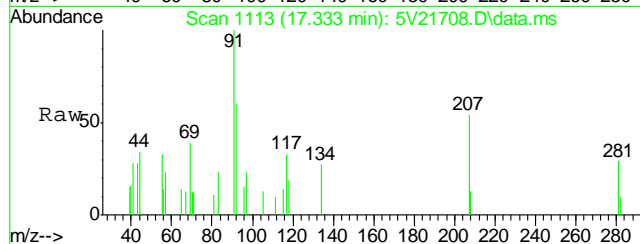
#87
1,2-Dichlorobenzene
Concen: 0.13 ug/l
RT: 17.470 min Scan# 1125
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

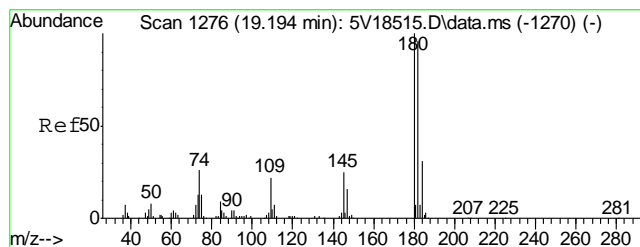
Tgt Ion	Ratio	Lower	Upper
146	100		
111	106.0	29.9	44.9#
148	43.4	51.9	77.9#



#88
n-Butylbenzene
Concen: 0.27 ug/l
RT: 17.333 min Scan# 1113
Delta R.T. 0.011 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

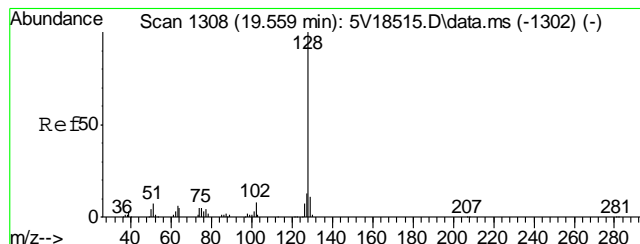
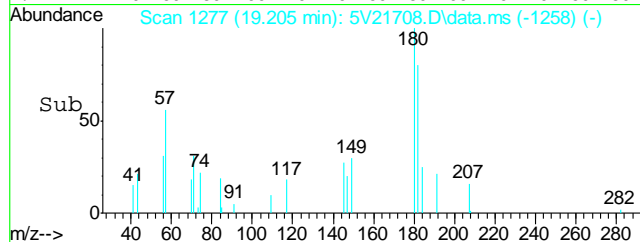
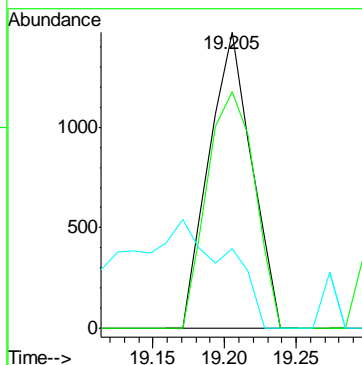
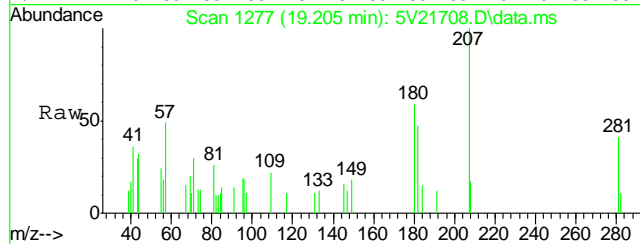
Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.5	42.2	63.4
134	21.2	21.4	32.2#





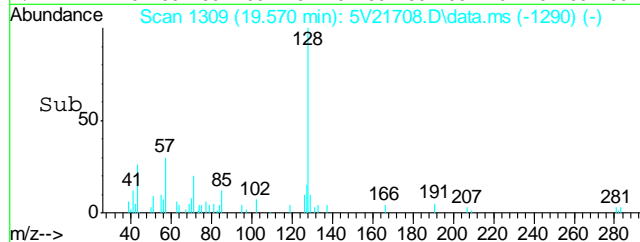
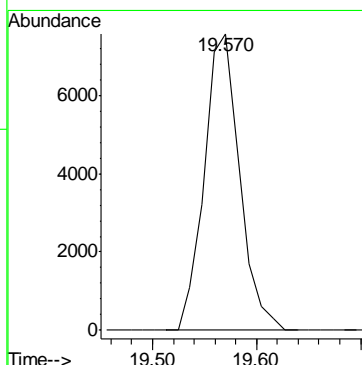
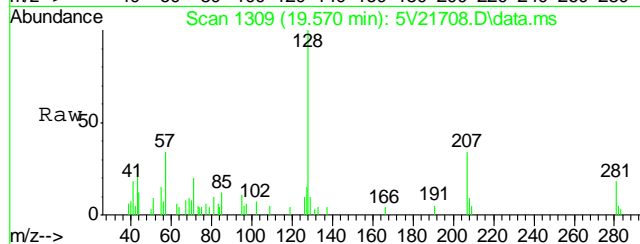
#90
1,2,4-Trichlorobenzene
Concen: 0.43 ug/l
RT: 19.205 min Scan# 1277
Delta R.T. 0.011 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

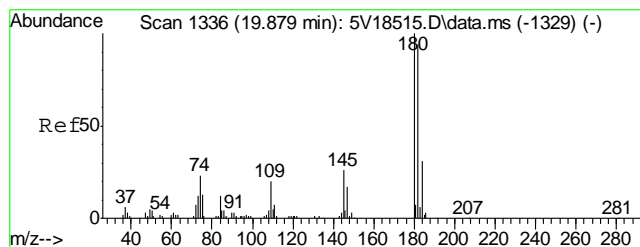
Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.4	76.2	114.4
145	85.6	20.1	30.1#



#91
Naphthalene
Concen: 1.87 ug/l
RT: 19.570 min Scan# 1309
Delta R.T. 0.012 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

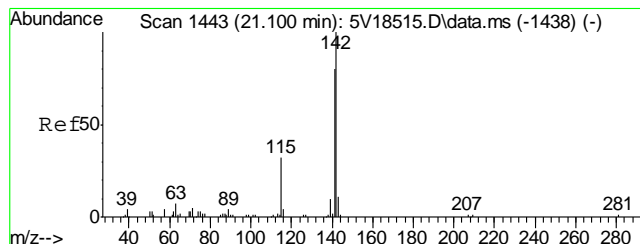
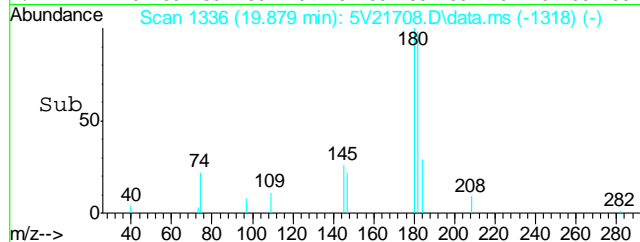
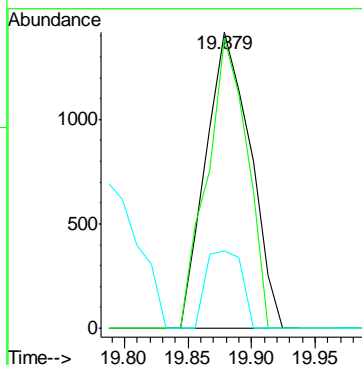
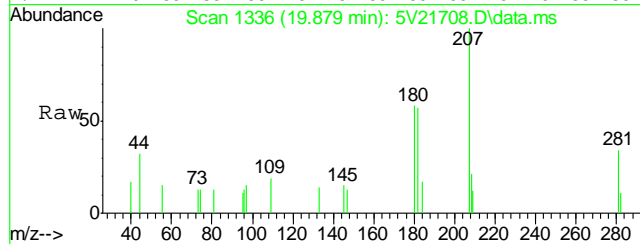
Tgt Ion	Ratio	Lower	Upper
128	100		
129	89.4	76.2	114.4
102	85.6	20.1	30.1#





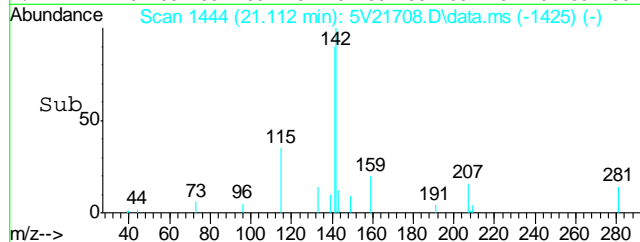
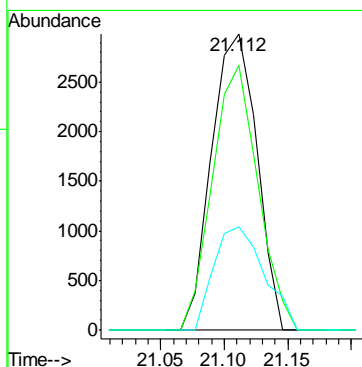
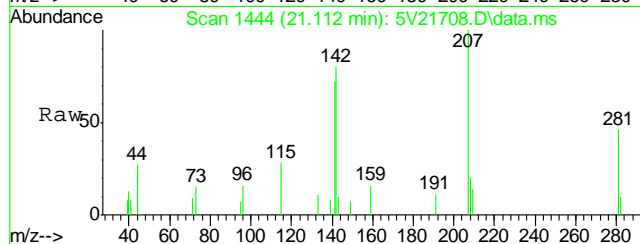
#93
1,2,3-Trichlorobenzene
Concen: 0.52 ug/l
RT: 19.879 min Scan# 1336
Delta R.T. -0.000 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

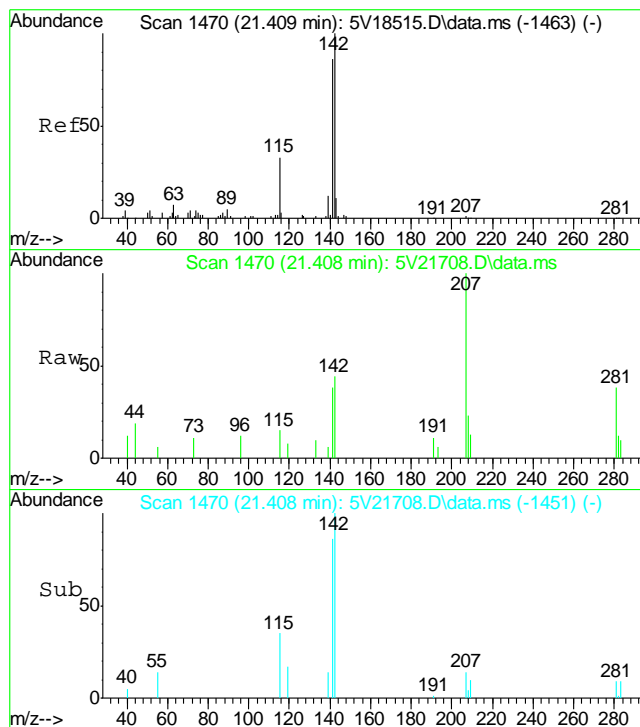
Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.9	76.0	114.0
145	21.1	21.4	32.0



#94
2-Methylnaphthalene
Concen: 2.65 ug/l
RT: 21.112 min Scan# 1444
Delta R.T. 0.012 min
Lab File: 5V21708.D
Acq: 4 Jun 2012 2:01 pm

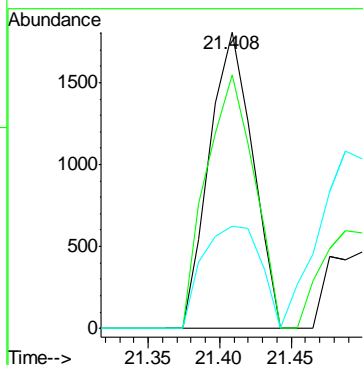
Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.1	66.2	99.4
115	38.7	25.9	38.9





#95
 1-Methylnaphthalene
 Concen: 1.87 ug/l
 RT: 21.408 min Scan# 1470
 Delta R.T. 0.011 min
 Lab File: 5V21708.D
 Acq: 4 Jun 2012 2:01 pm

Tgt Ion:	142	Resp:	3804
Ion Ratio	Lower	Upper	
142	100		
141	94.3	68.9	103.3
115	46.2	27.3	40.9#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5060412.S\
Data File : 5V21706.D
Acq On : 4 Jun 2012 12:52 pm
Operator : BRETD
Sample : MB
Misc : MS4023,V5V1323,5.00,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 08:57:09 2012
Quant Method : C:\msdchem\1\METHODS\V5AP1304TVH1304.M
Quant Title : 8260
QLast Update : Thu May 24 07:55:17 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.647	168	254847	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.446	114	380265	50.00	ug/l	0.00
53) Chlorobenzene-d5	15.095	117	437669	50.00	ug/l	0.00
74) 1,4-Dichlorobenzene-d4	17.070	152	269613	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	12.035	102	38564	49.33	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.66%
61) Toluene-d8	13.851	98	718507	48.57	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.14%
69) 4-Bromofluorobenzene	16.043	95	288634	47.63	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.26%

Target Compounds

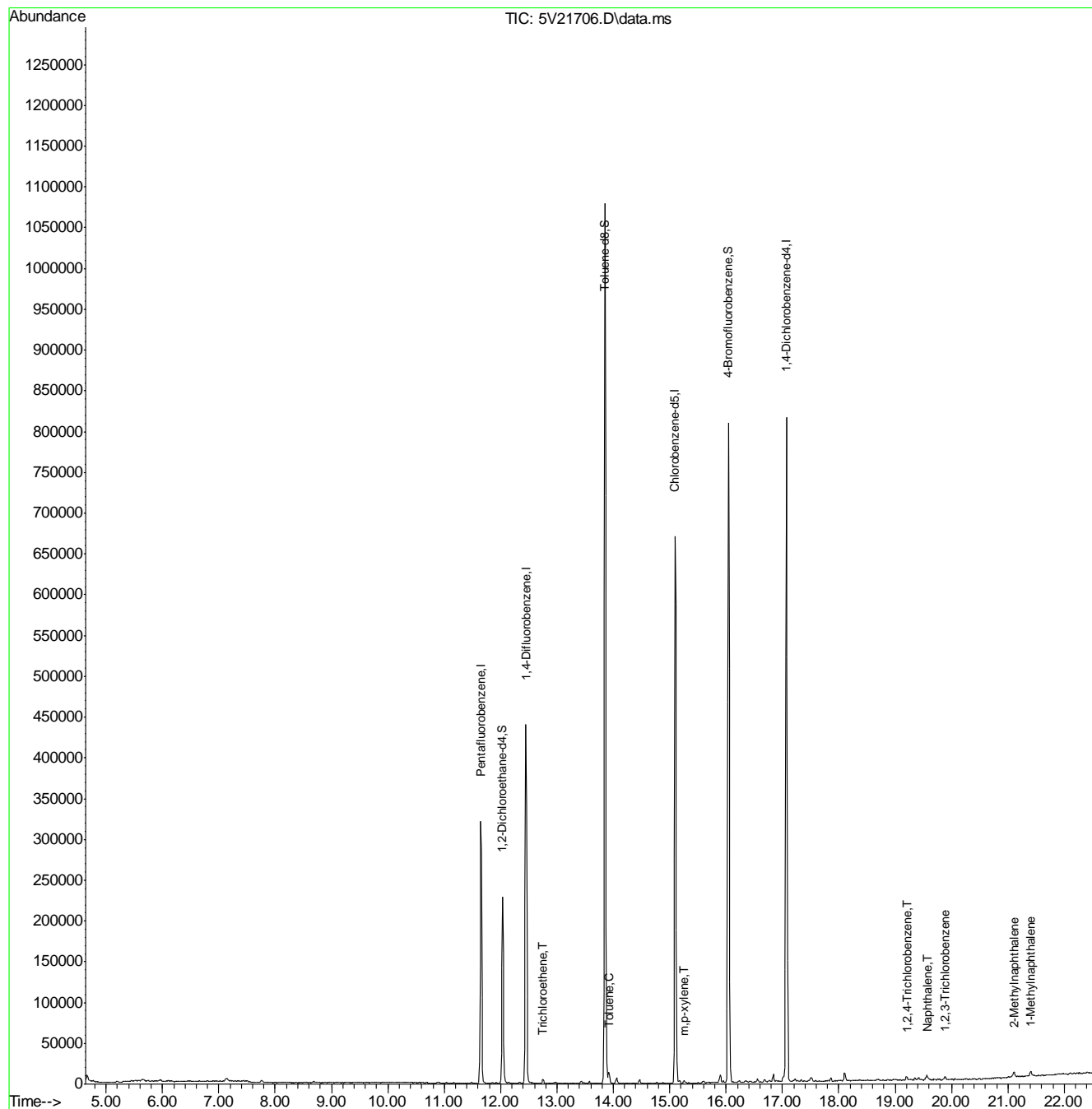
						Qvalue
1) TVH-Gasoline	13.102	TIC	-17443m	0.54	ug/l	
48) Trichloroethene	12.755	95	1838	0.43	ug/l	94
62) Toluene	13.919	92	3339	0.29	ug/l	95
72) m,p-xylene	15.255	106	1358	0.16	ug/l	95
90) 1,2,4-Trichlorobenzene	19.205	180	2165	0.31	ug/l	96
91) Naphthalene	19.570	128	7762	1.15	ug/l	100
93) 1,2,3-Trichlorobenzene	19.879	180	2774	0.42	ug/l	93
94) 2-Methylnaphthalene	21.112	142	5886	2.39	ug/l	93
95) 1-Methylnaphthalene	21.409	142	5600	2.19	ug/l	93

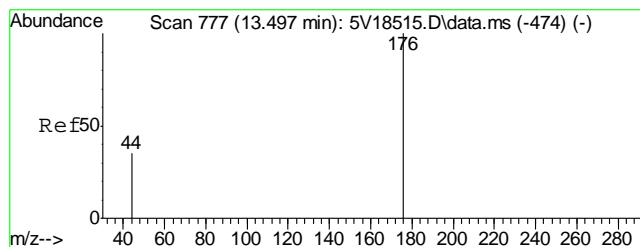
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V5060412.S\
Data File : 5V21706.D
Acq On : 4 Jun 2012 12:52 pm
Operator : BRETD
Sample : MB
Misc : MS4023,V5V1323,5.00,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

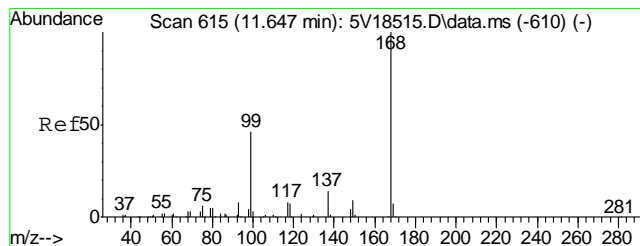
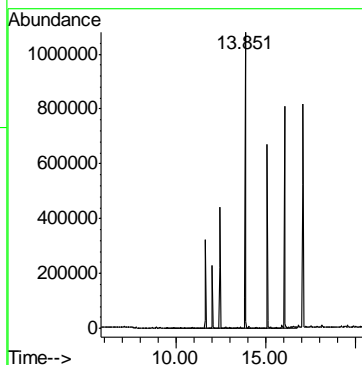
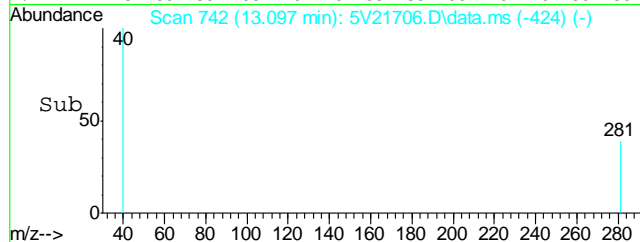
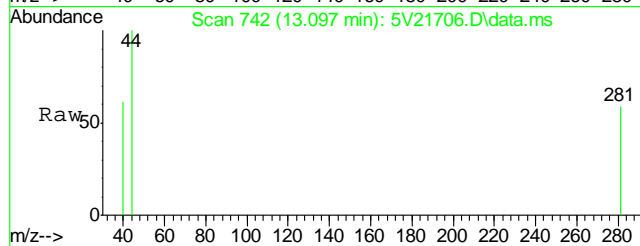
Quant Time: Jun 05 08:57:09 2012
Quant Method : C:\msdchem\1\METHODS\V5AP1304TVH1304.M
Quant Title : 8260
QLast Update : Thu May 24 07:55:17 2012
Response via : Initial Calibration





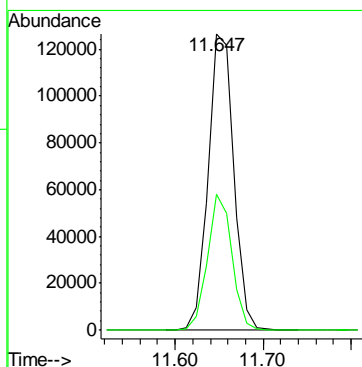
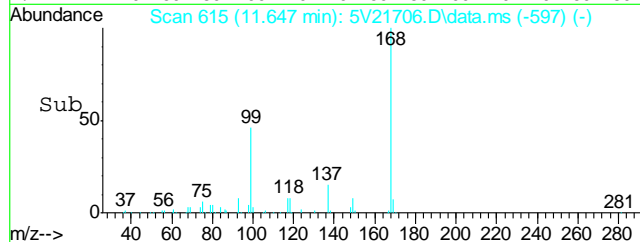
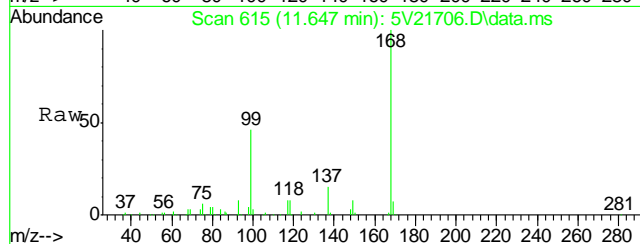
#1
TVH-Gasoline
Concen: 0.54 ug/l m
RT: 13.102 min Scan# 742
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

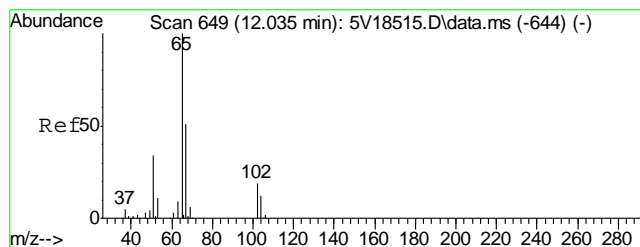
Tgt Ion:TIC Resp: -17443



#2
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.647 min Scan# 615
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

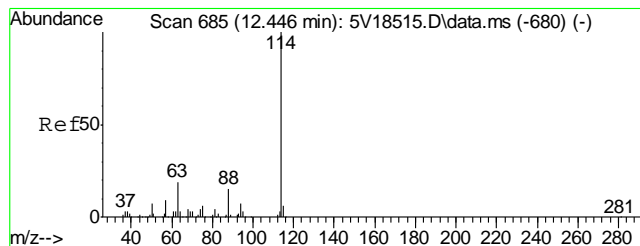
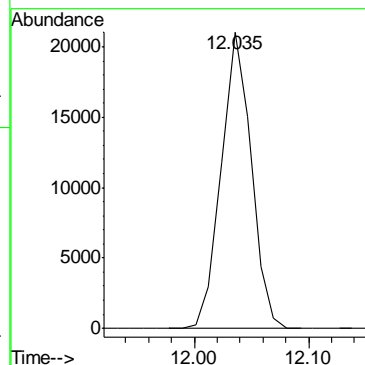
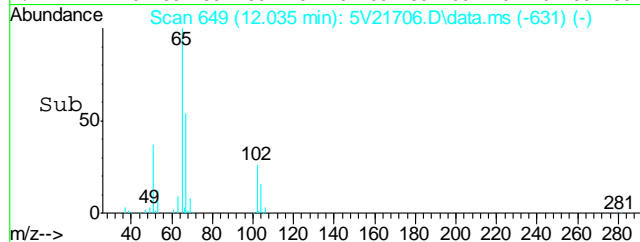
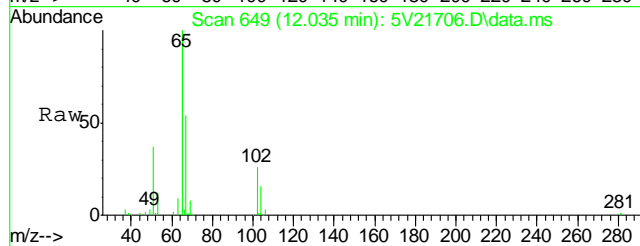
Tgt Ion:168 Resp: 254847
Ion Ratio Lower Upper
168 100
99 43.5 37.4 56.2





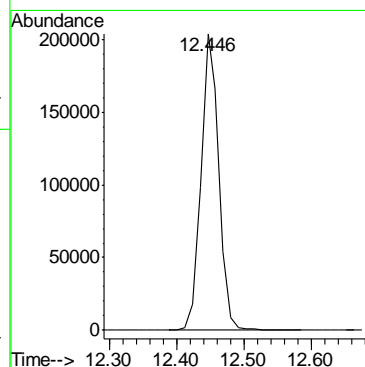
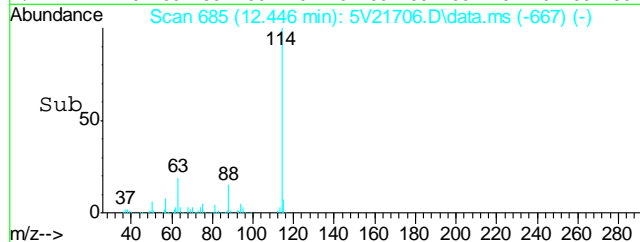
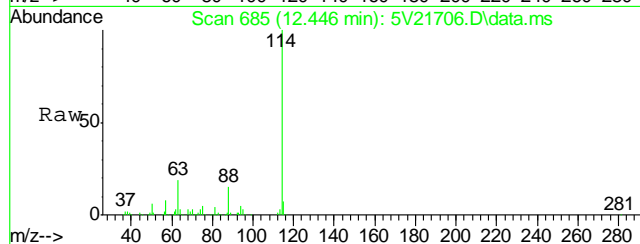
#33
1,2-Dichloroethane-d4
Concen: 49.33 ug/l
RT: 12.035 min Scan# 649
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

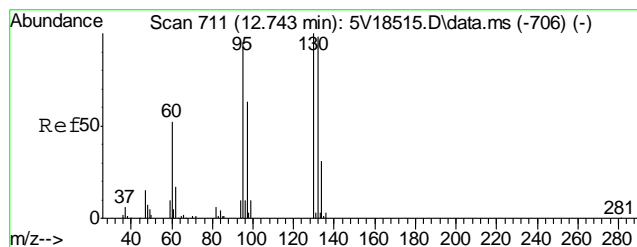
Tgt Ion:102 Resp: 38564



#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.446 min Scan# 685
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

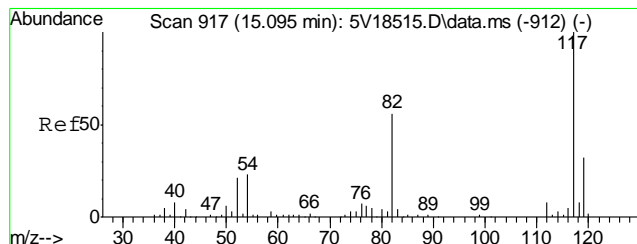
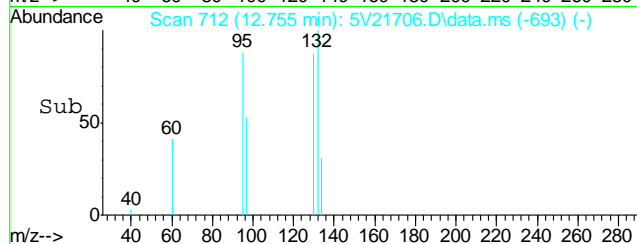
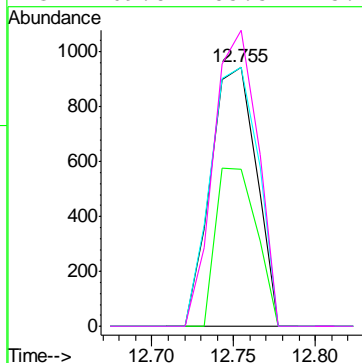
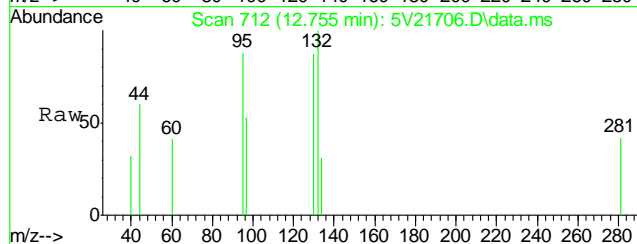
Tgt Ion:114 Resp: 380265





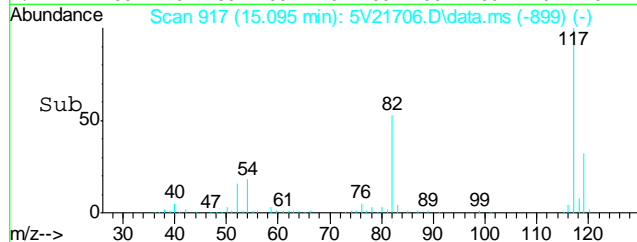
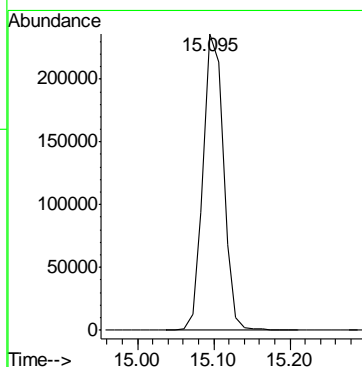
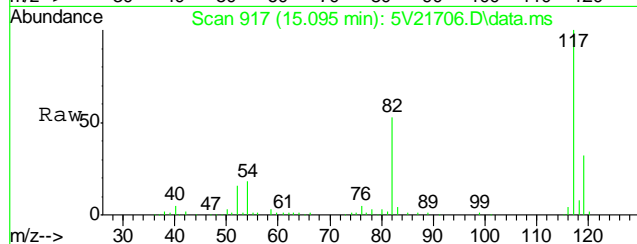
#48
Trichloroethene
Concen: 0.43 ug/l
RT: 12.755 min Scan# 712
Delta R.T. 0.011 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

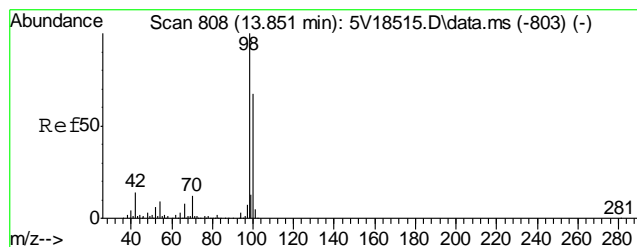
Tgt Ion	95	Resp	1838
Ion Ratio	100		
Lower	47.1		
Upper	87.1		
97	54.5		
130	104.1		
132	109.8		



#53
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 15.095 min Scan# 917
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

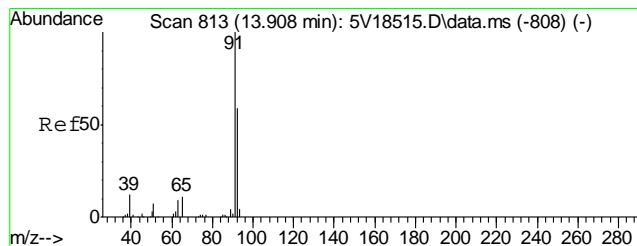
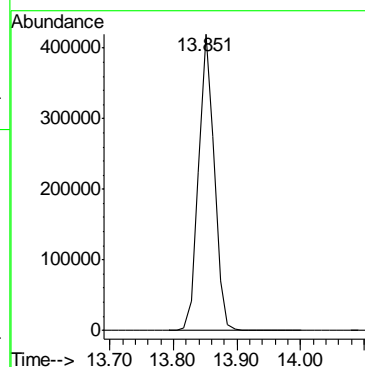
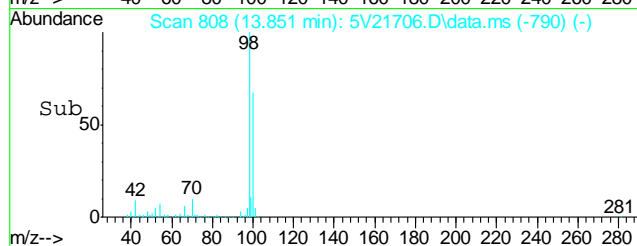
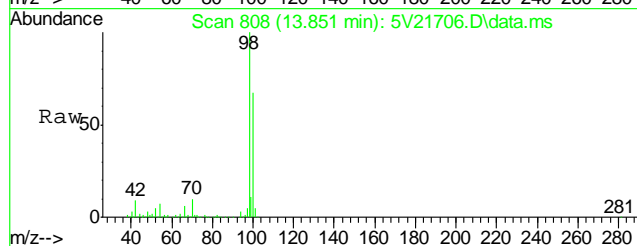
Tgt Ion: 117 Resp: 437669





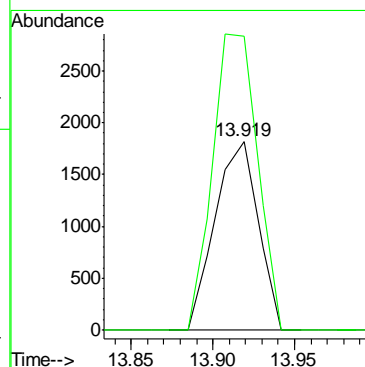
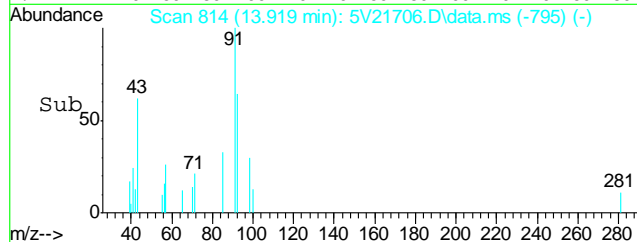
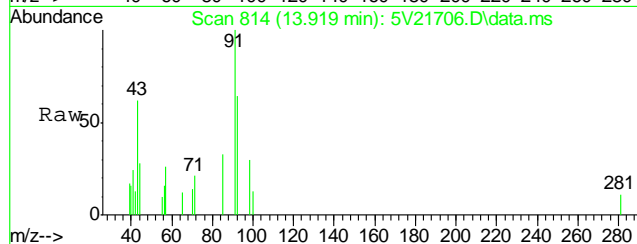
#61
Toluene-d8
Concen: 48.57 ug/l
RT: 13.851 min Scan# 808
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

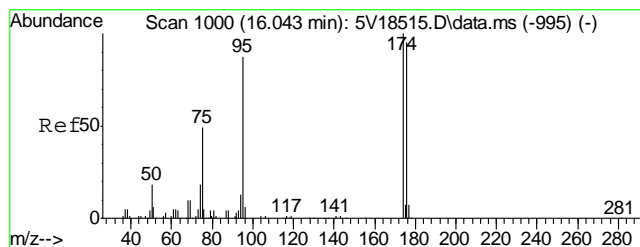
Tgt Ion: 98 Resp: 718507



#62
Toluene
Concen: 0.29 ug/l
RT: 13.919 min Scan# 814
Delta R.T. 0.011 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

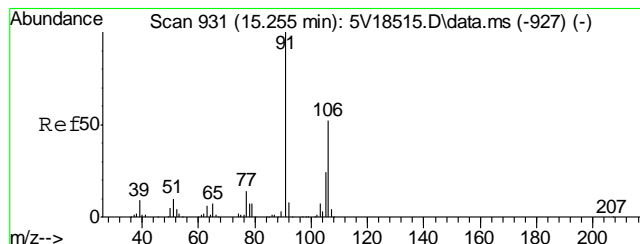
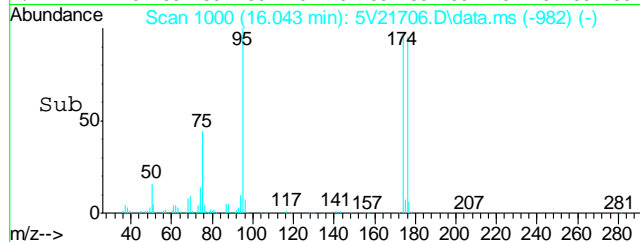
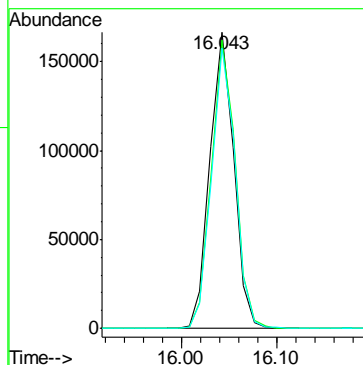
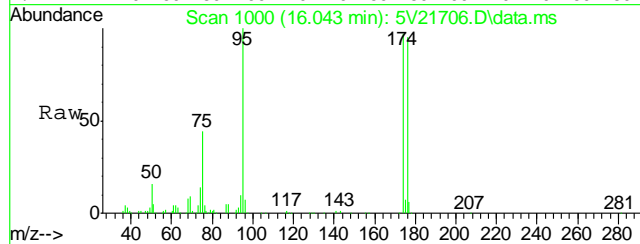
Tgt Ion: 92 Resp: 3339
Ion Ratio Lower Upper
92 100
91 163.3 149.8 189.8





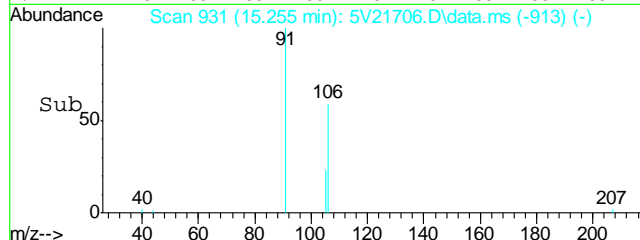
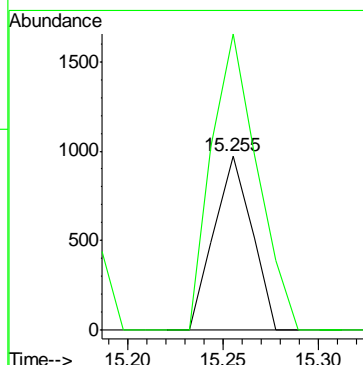
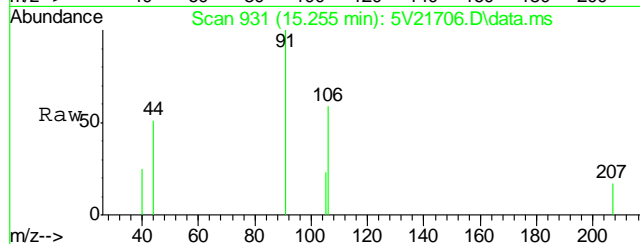
#69
4-Bromofluorobenzene
Concen: 47.63 ug/l
RT: 16.043 min Scan# 1000
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

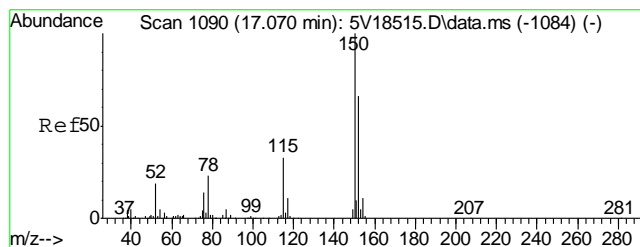
Tgt Ion:	95	Resp:	288634
Ion Ratio	Lower	Upper	
95	100		
174	97.2	77.1	117.1
176	94.1	73.4	113.4



#72
m,p-xylene
Concen: 0.16 ug/l
RT: 15.255 min Scan# 931
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

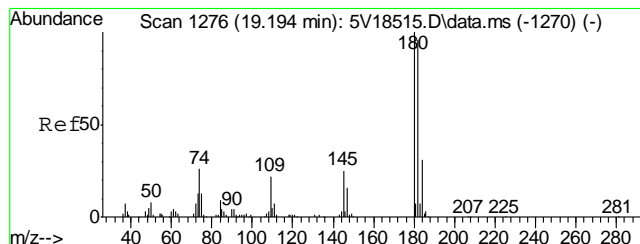
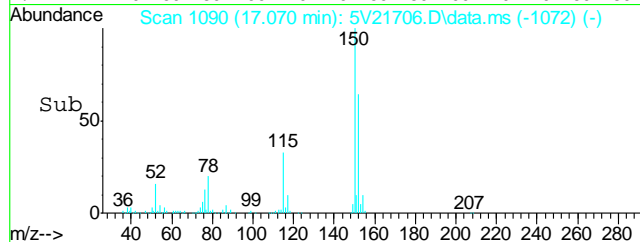
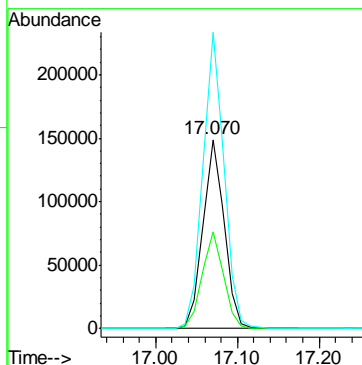
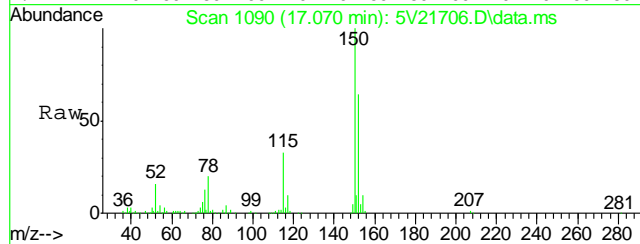
Tgt Ion:	106	Resp:	1358
Ion Ratio	Lower	Upper	
106	100		
91	204.1	177.1	217.1





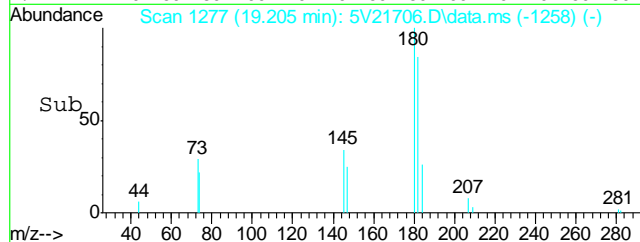
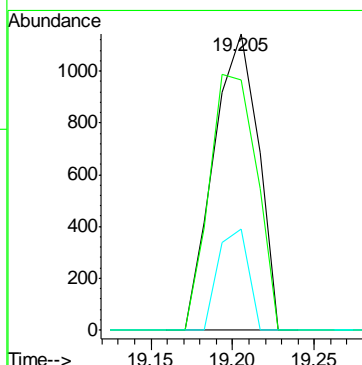
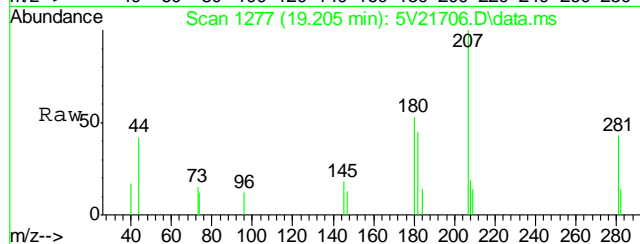
#74
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 17.070 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

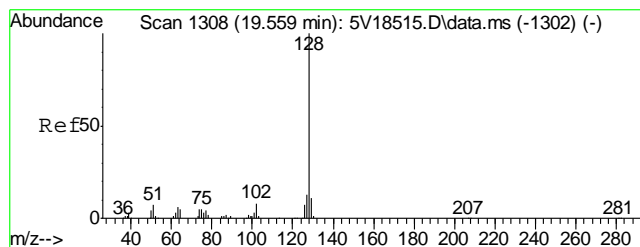
Tgt Ion:	152	Resp:	269613
Ion Ratio	Lower	Upper	
152	100		
115	51.7	41.4	62.0
150	155.7	153.9	230.9



#90
1,2,4-Trichlorobenzene
Concen: 0.31 ug/l
RT: 19.205 min Scan# 1277
Delta R.T. 0.011 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

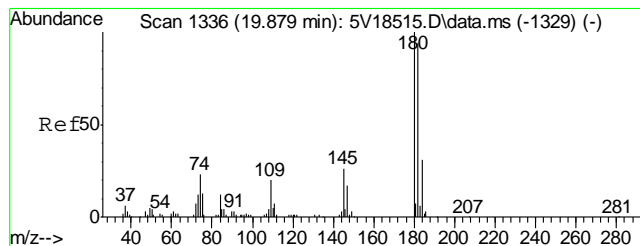
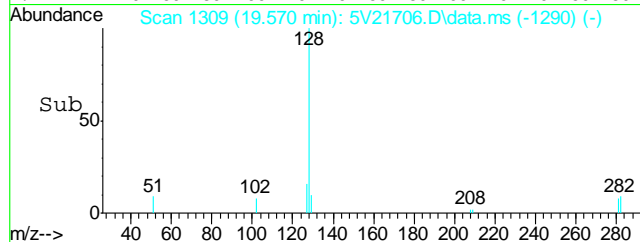
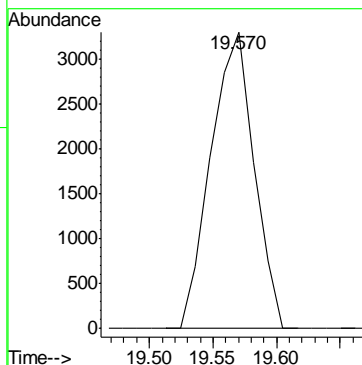
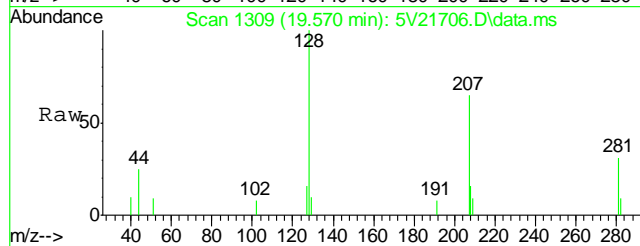
Tgt Ion:	180	Resp:	2165
Ion Ratio	Lower	Upper	
180	100		
182	91.5	76.2	114.4
145	23.1	20.1	30.1





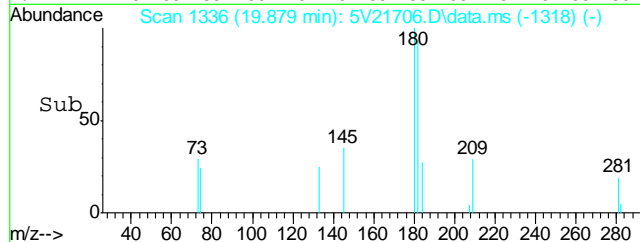
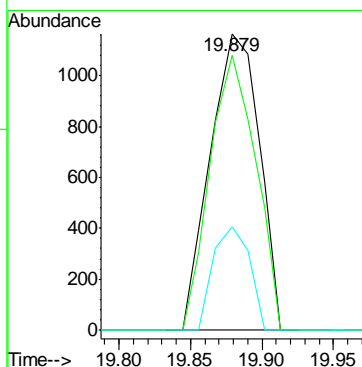
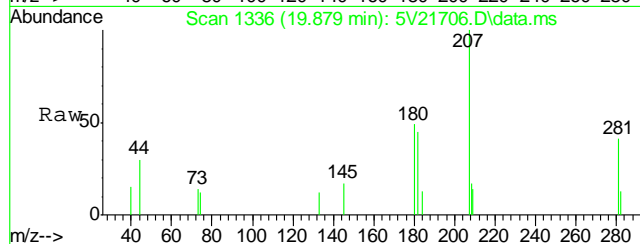
#91
Naphthalene
Concen: 1.15 ug/l
RT: 19.570 min Scan# 1309
Delta R.T. 0.012 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

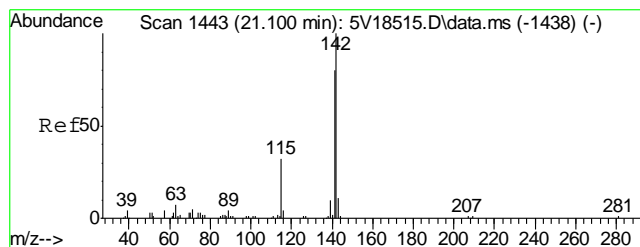
Tgt Ion:128 Resp: 7762



#93
1,2,3-Trichlorobenzene
Concen: 0.42 ug/l
RT: 19.879 min Scan# 1336
Delta R.T. 0.000 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

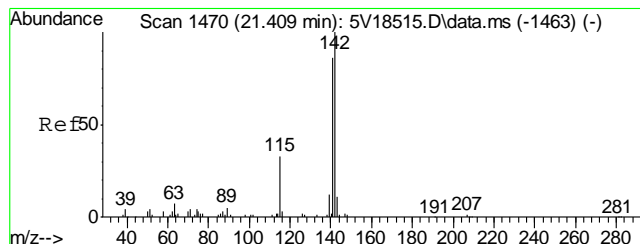
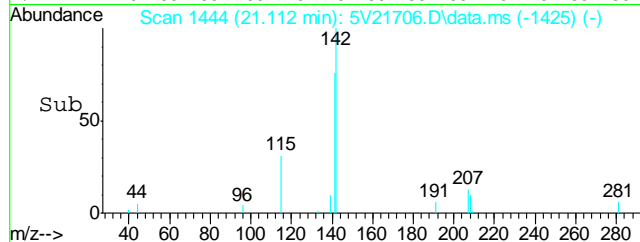
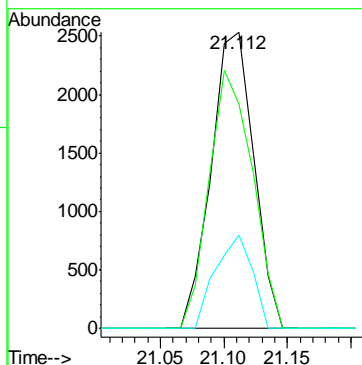
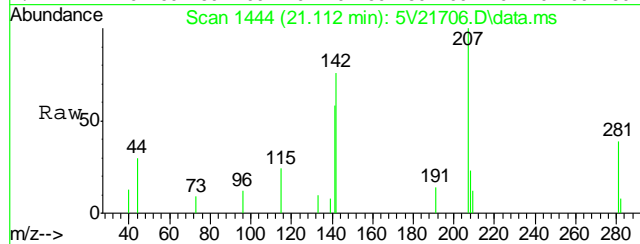
Tgt Ion:180 Resp: 2774
Ion Ratio Lower Upper
180 100
182 86.7 76.0 114.0
145 25.7 21.4 32.0





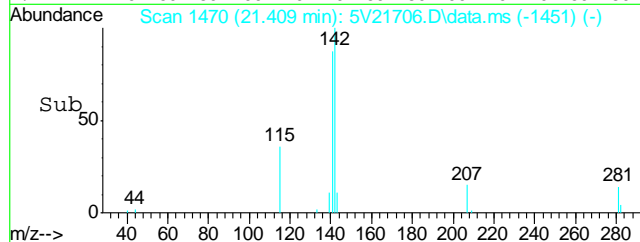
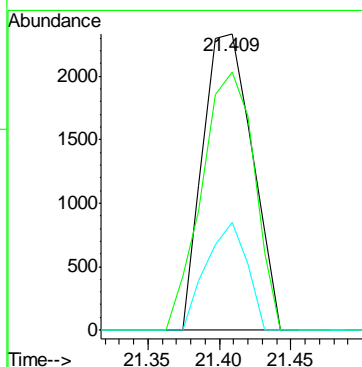
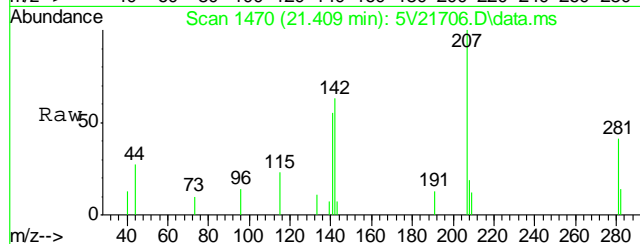
#94
2-Methylnaphthalene
Concen: 2.39 ug/l
RT: 21.112 min Scan# 1444
Delta R.T. 0.012 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

Tgt Ion:142	Resp:	5886
Ion Ratio	Lower	Upper
142	100	
141	88.7	66.2 99.4
115	27.0	25.9 38.9



#95
1-Methylnaphthalene
Concen: 2.19 ug/l
RT: 21.409 min Scan# 1470
Delta R.T. 0.012 min
Lab File: 5V21706.D
Acq: 4 Jun 2012 12:52 pm

Tgt Ion:142	Resp:	5600
Ion Ratio	Lower	Upper
142	100	
141	92.3	68.9 103.3
115	29.8	27.3 40.9



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: D35038
Account: XTOKRWR XTO Energy
Project: FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB903-MB	GB16212.D	1	06/05/12	SK	n/a	n/a	GGB903

The QC reported here applies to the following samples:

Method: SW846 8015B

D35038-1, D35038-2, D35038-3

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

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	101% 60-140%

Blank Spike Summary

Job Number: D35038
Account: XTOKRWR XTO Energy
Project: FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB903-BS	GB16213.D	1	06/05/12	SK	n/a	n/a	GGB903

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

D35038-1, D35038-2, D35038-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	120	109	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	122%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D35038
Account: XTOKRWR XTO Energy
Project: FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D35033-2MS	GB16217.D	1	06/05/12	SK	n/a	n/a	GGB903
D35033-2MSD	GB16218.D	1	06/05/12	SK	n/a	n/a	GGB903
D35033-2	GB16216.D	1	06/05/12	SK	n/a	n/a	GGB903

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

D35038-1, D35038-2, D35038-3

CAS No.	Compound	D35033-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		142	149	105	150	106	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D35033-2	Limits
120-82-1	1,2,4-Trichlorobenzene	109%	103%	98%	60-140%

GC Volatiles

Raw Data

∞

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\060512\GB16226.D\FID1A.CH Vial: 18
Signal #2 : Y:\1\DATA\060512\GB16226.D\FID2B.CH
Acq On : 5 Jun 2012 10:50 pm Operator: StephK
Sample : D35038-1, 50X Inst : GC/MS Ins
Misc : GC2883,GGB903,5.010,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 06 08:08:10 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Wed Jun 06 08:07:51 2012
Response via : Initial Calibration
DataAcq Meth : TVB4.M

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

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
2) S 1,2,4-Trichlorobenzene	14.34	2742223	87.516 %	m
10) S 1,2,4-Trichlorobenzene (P)	14.34	21321195	131.185 %	
Target Compounds				
1) H TVH-Gasoline	7.23	11992380	0.157 mg/L	
4) T Methyl-t-butyl-ether	0.00	0	N.D. ug/L	d
5) T Benzene	4.11	394455	0.979 ug/L	
6) T Toluene	7.62	1251988	3.159 ug/L	
7) T Ethylbenzene	10.25	250567	0.741 ug/L	
8) T m,p-Xylene	10.43	1391415	3.439 ug/L	
9) T o-Xylene	10.93	201709	0.614 ug/L	
11) T Naphthalene	14.54	8887854	45.045 ug/L	

8.1.1

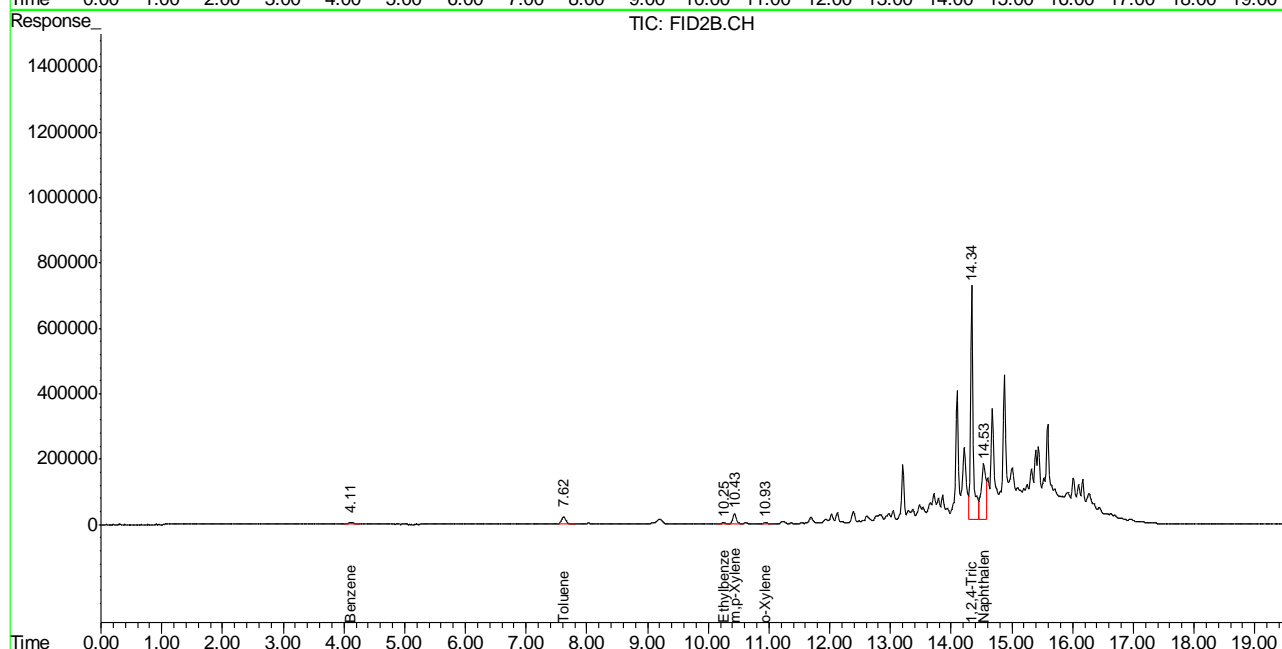
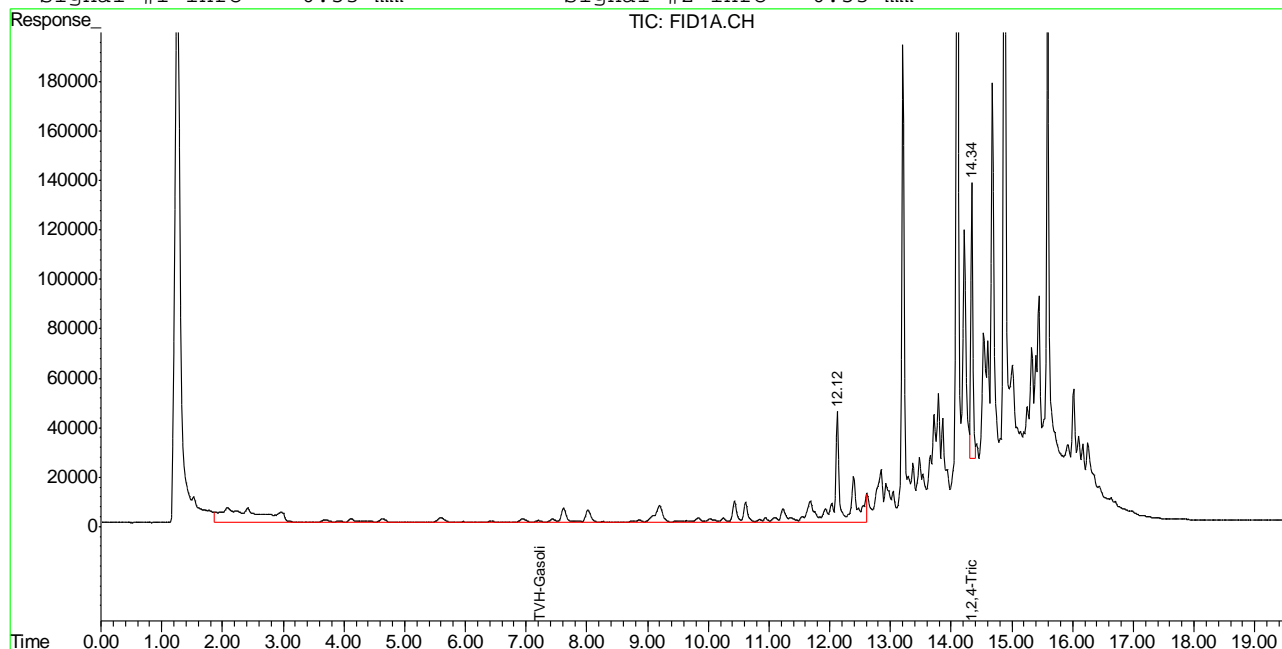
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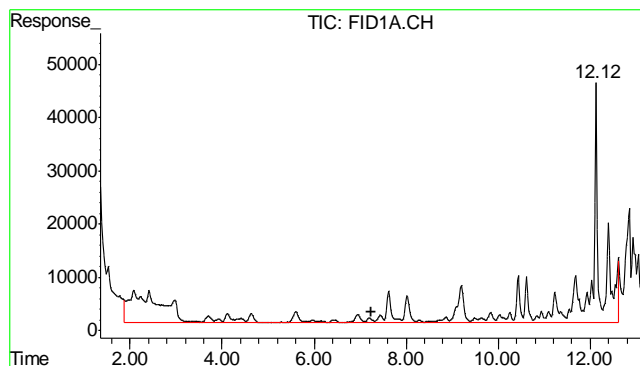
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\060512\GB16226.D\FID1A.CH Vial: 18
Signal #2 : Y:\1\DATA\060512\GB16226.D\FID2B.CH
Acq On : 5 Jun 2012 10:50 pm Operator: StephK
Sample : D35038-1, 50X Inst : GC/MS Ins
Misc : GC2883,GGB903,5.010,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 6 7:15 2012 Quant Results File: TB868GB868SOIL.RES

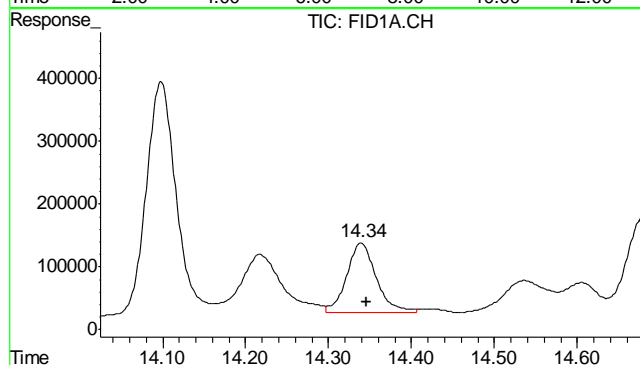
Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Wed Jun 06 08:07:51 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

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

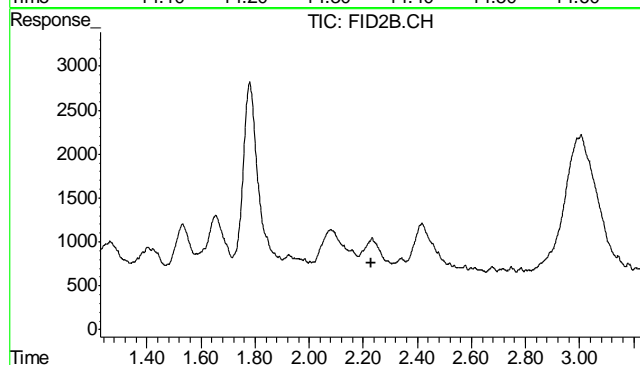




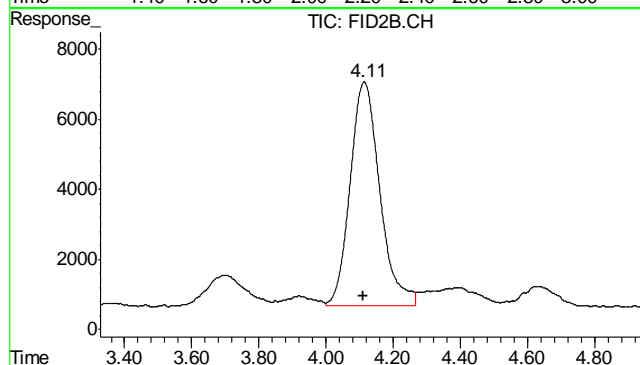
#1 TVH-Gasoline
 R.T.: 7.230 min
 Delta R.T.: 0.000 min
 Response: 11992380
 Conc: 0.16 mg/L m



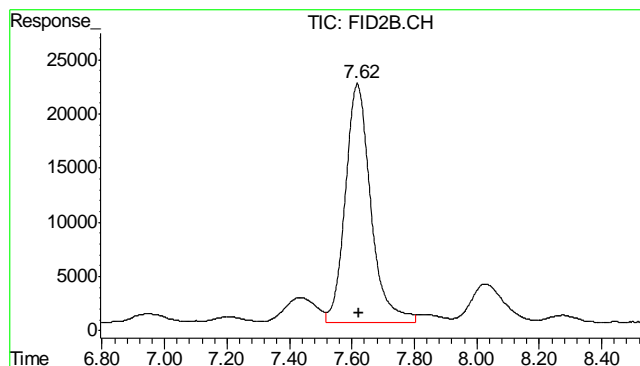
#2 1,2,4-Trichlorobenzene
 R.T.: 14.339 min
 Delta R.T.: -0.007 min
 Response: 2742223
 Conc: 87.52 % m



#4 Methyl-t-butyl-ether
 R.T.: 0.000 min
 Exp R.T.: 2.228 min
 Response: 0
 Conc: N.D.

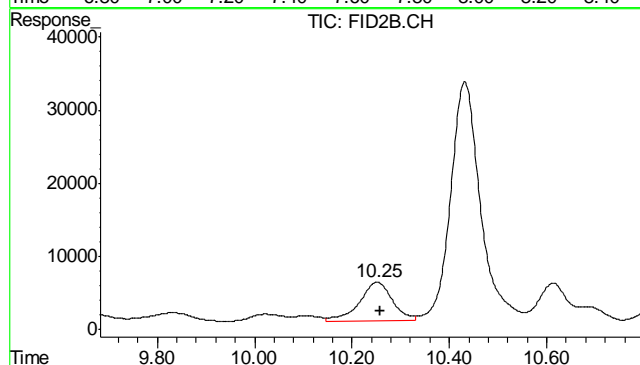


#5 Benzene
 R.T.: 4.113 min
 Delta R.T.: 0.002 min
 Response: 394455
 Conc: 0.98 ug/L



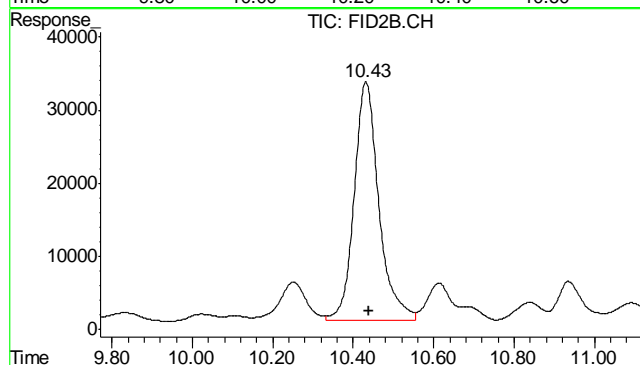
#6 Toluene

R.T.: 7.618 min
Delta R.T.: -0.006 min
Response: 1251988
Conc: 3.16 ug/L



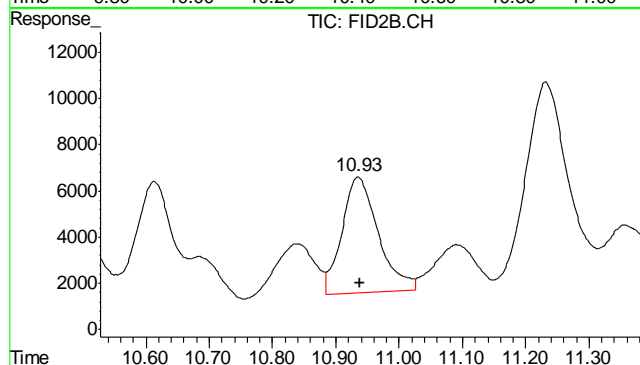
#7 Ethylbenzene

R.T.: 10.252 min
Delta R.T.: -0.006 min
Response: 250567
Conc: 0.74 ug/L



#8 m,p-Xylene

R.T.: 10.432 min
Delta R.T.: -0.007 min
Response: 1391415
Conc: 3.44 ug/L

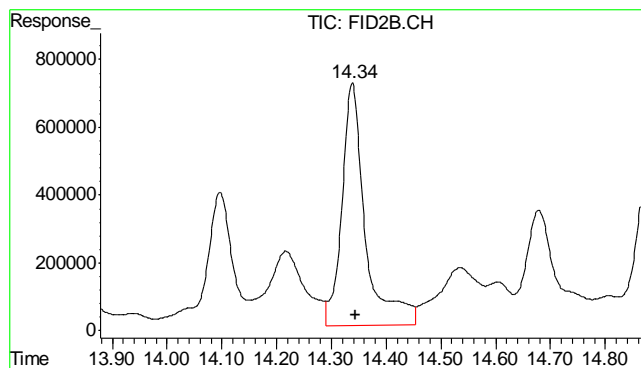


#9 o-Xylene

R.T.: 10.935 min
Delta R.T.: -0.003 min
Response: 201709
Conc: 0.61 ug/L

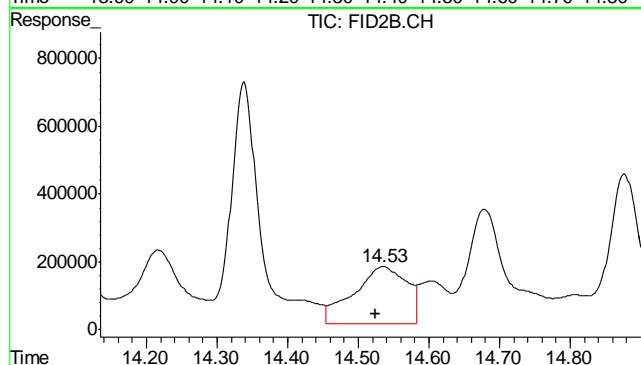
8.1.1

8



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

R.T.: 14.338 min
Delta R.T.: -0.005 min
Response: 21321195
Conc: 131.19 %



#11 Naphthalene

R.T.: 14.535 min
Delta R.T.: 0.010 min
Response: 8887854
Conc: 45.05 ug/L

8.1.1

8

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\060512\GB16227.D\FID1A.CH Vial: 19
Signal #2 : Y:\1\DATA\060512\GB16227.D\FID2B.CH
Acq On : 5 Jun 2012 11:25 pm Operator: StephK
Sample : D35038-2, 50X Inst : GC/MS Ins
Misc : GC2883,GGB903,5.038,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 06 08:08:14 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Wed Jun 06 08:07:51 2012
Response via : Initial Calibration
DataAcq Meth : TVB4.M

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

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
2) S 1,2,4-Trichlorobenzene	14.33	2653867	84.696 %	m
10) S 1,2,4-Trichlorobenzene (P)	14.33	16992980	104.554 %	
Target Compounds				
1) H TVH-Gasoline	7.23	13663083	0.184 mg/L	
4) T Methyl-t-butyl-ether	0.00	0	N.D. ug/L	d
5) T Benzene	4.09	423248	1.050 ug/L	
6) T Toluene	7.60	1801832	4.547 ug/L	
7) T Ethylbenzene	10.24	442322	1.308 ug/L	
8) T m,p-Xylene	10.42	2170715	5.574 ug/L	
9) T o-Xylene	10.93	306642	0.934 ug/L	
11) T Naphthalene	14.52	2330156	11.810 ug/L	

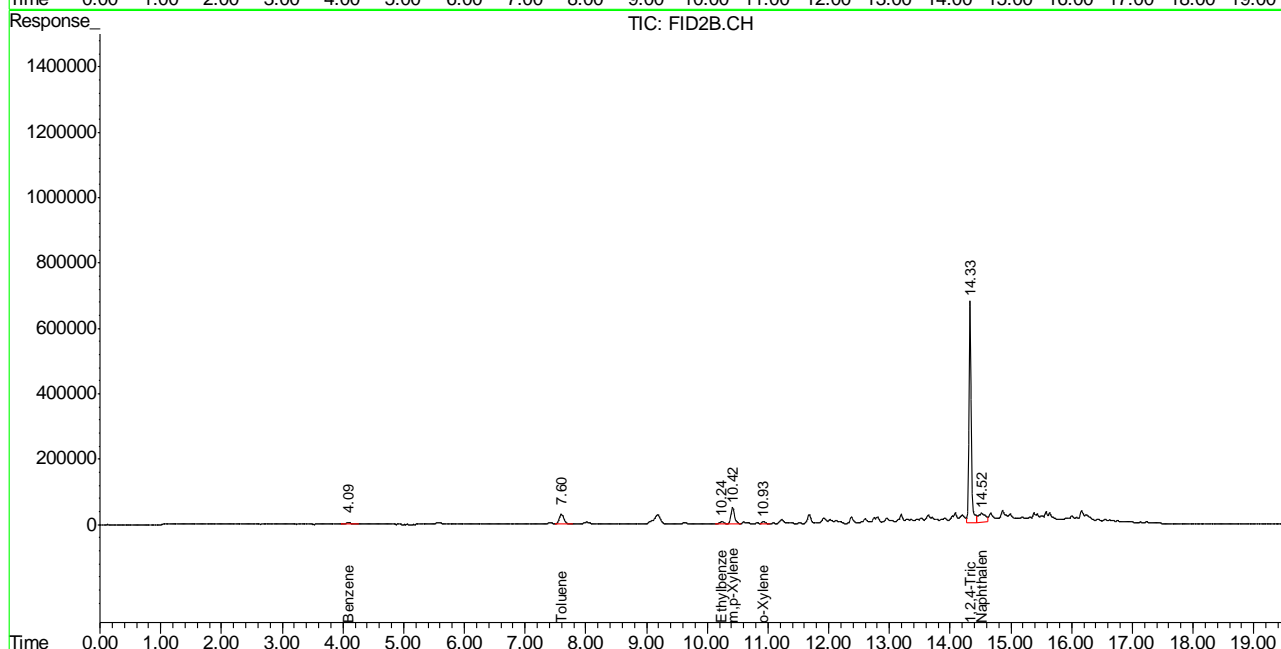
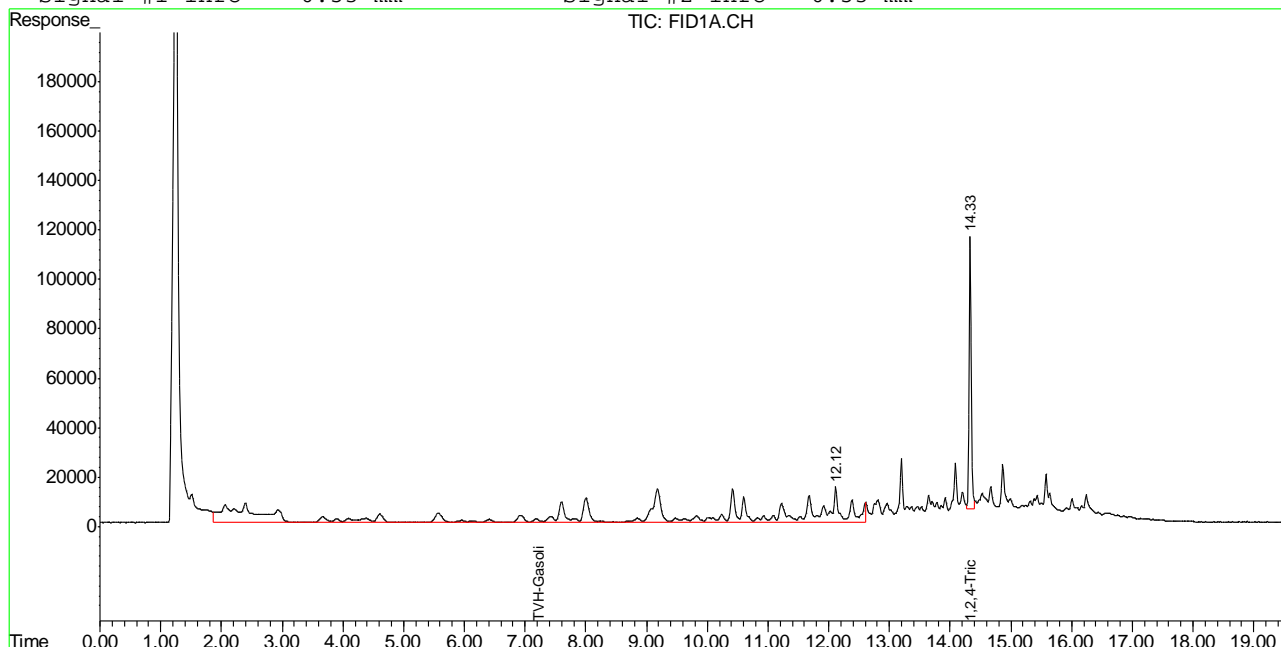
8.12
8

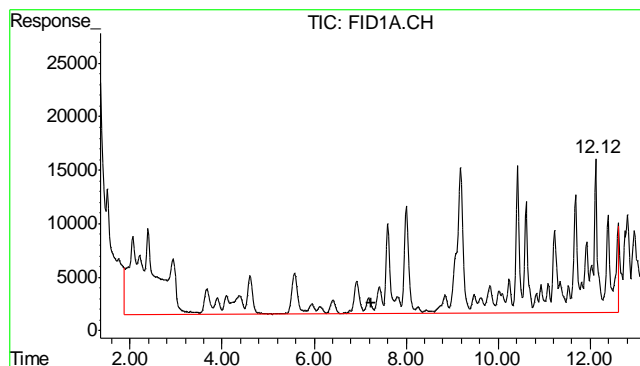
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\060512\GB16227.D\FID1A.CH Vial: 19
 Signal #2 : Y:\1\DATA\060512\GB16227.D\FID2B.CH
 Acq On : 5 Jun 2012 11:25 pm Operator: StephK
 Sample : D35038-2, 50X Inst : GC/MS Ins
 Misc : GC2883,GGB903,5.038,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Jun 6 7:15 2012 Quant Results File: TB868GB868SOIL.RES

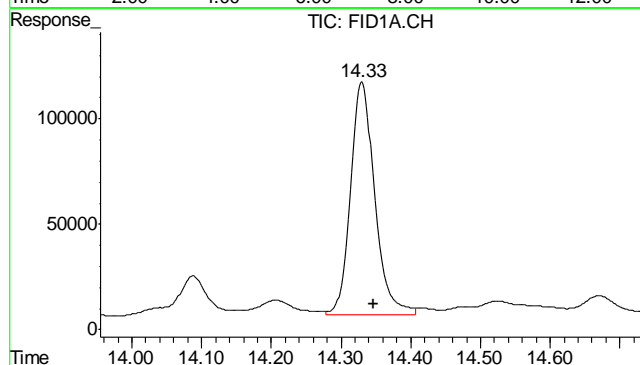
Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Wed Jun 06 08:07:51 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

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

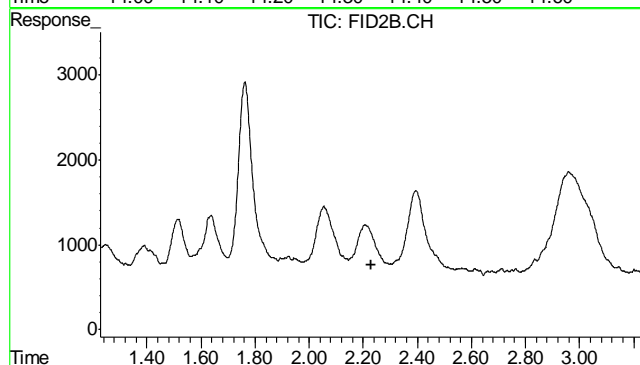




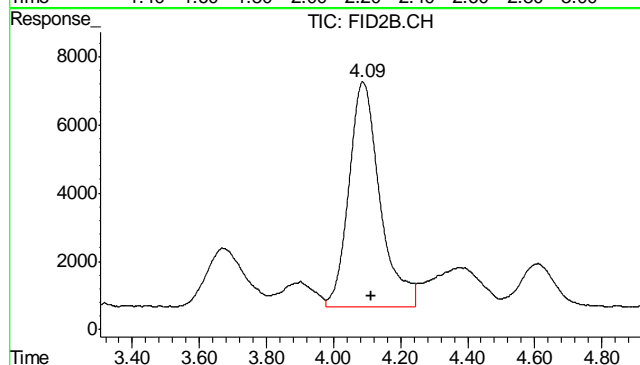
#1 TVH-Gasoline
 R.T.: 7.230 min
 Delta R.T.: 0.000 min
 Response: 13663083
 Conc: 0.18 mg/L m



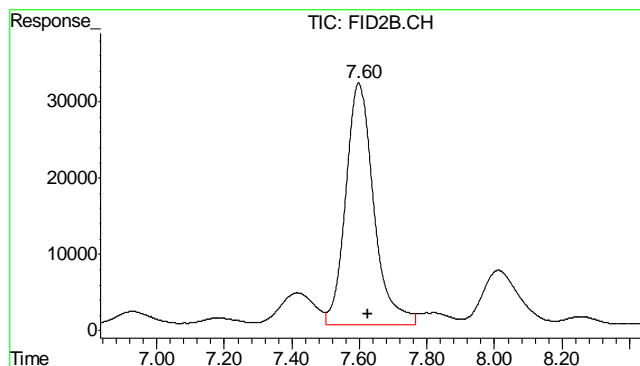
#2 1,2,4-Trichlorobenzene
 R.T.: 14.330 min
 Delta R.T.: -0.016 min
 Response: 2653867
 Conc: 84.70 % m



#4 Methyl-t-butyl-ether
 R.T.: 0.000 min
 Exp R.T.: 2.228 min
 Response: 0
 Conc: N.D.

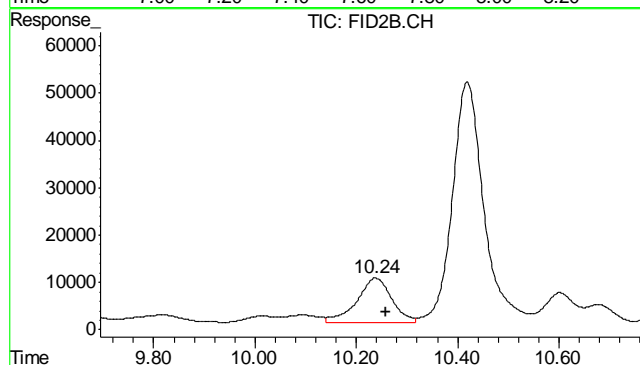


#5 Benzene
 R.T.: 4.087 min
 Delta R.T.: -0.025 min
 Response: 423248
 Conc: 1.05 ug/L



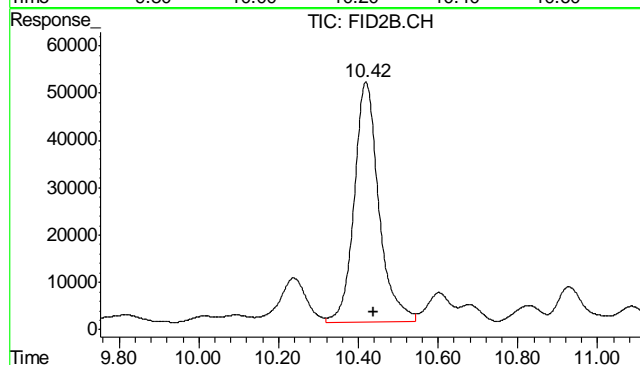
#6 Toluene

R.T.: 7.599 min
Delta R.T.: -0.025 min
Response: 1801832
Conc: 4.55 ug/L



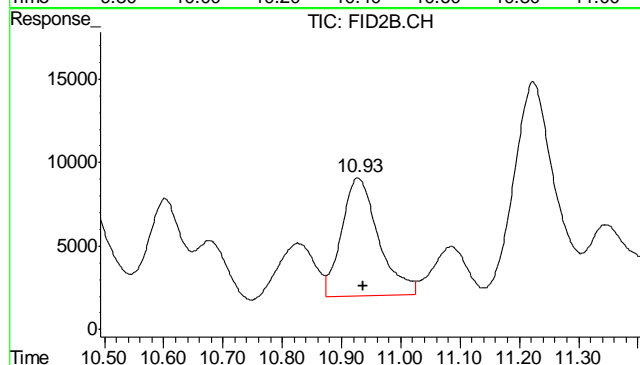
#7 Ethylbenzene

R.T.: 10.238 min
Delta R.T.: -0.020 min
Response: 442322
Conc: 1.31 ug/L



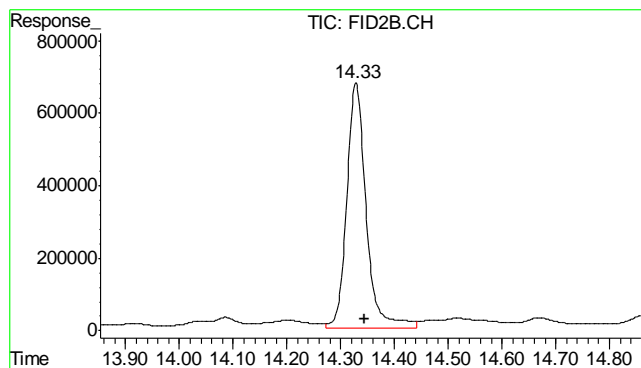
#8 m,p-Xylene

R.T.: 10.419 min
Delta R.T.: -0.020 min
Response: 2170715
Conc: 5.57 ug/L



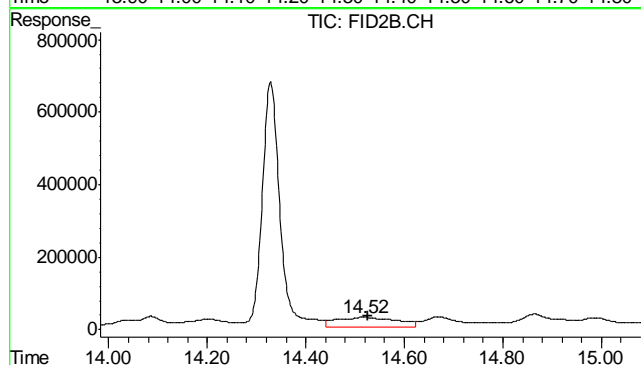
#9 o-Xylene

R.T.: 10.928 min
Delta R.T.: -0.010 min
Response: 306642
Conc: 0.93 ug/L



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

R.T.: 14.329 min
 Delta R.T.: -0.015 min
 Response: 16992980
 Conc: 104.55 %



#11 Naphthalene

R.T.: 14.518 min
 Delta R.T.: -0.007 min
 Response: 2330156
 Conc: 11.81 ug/L

8.1.2
8

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\060512\GB16228.D\FID1A.CH Vial: 20
Signal #2 : Y:\1\DATA\060512\GB16228.D\FID2B.CH
Acq On : 6 Jun 2012 12:01 am Operator: StephK
Sample : D35038-3, 50X Inst : GC/MS Ins
Misc : GC2883,GGB903,5.008,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 06 08:08:18 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Wed Jun 06 08:07:51 2012
Response via : Initial Calibration
DataAcq Meth : TVB4.M

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

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
2) S 1,2,4-Trichlorobenzene	14.33	2674616	85.358 %	m
10) S 1,2,4-Trichlorobenzene (P)	14.33	16751586	103.069 %	
Target Compounds				
1) H TVH-Gasoline	7.23	14560660	0.198 mg/L	
4) T Methyl-t-butyl-ether	0.00	0	N.D. ug/L	d
5) T Benzene	4.10	317937	0.789 ug/L	
6) T Toluene	7.61	1824944	4.605 ug/L	
7) T Ethylbenzene	10.24	487935	1.442 ug/L	
8) T m,p-Xylene	10.42	2284067	5.884 ug/L	
9) T o-Xylene	10.93	243443	0.741 ug/L	
11) T Naphthalene	14.52	1420619	7.200 ug/L	

8.1.3

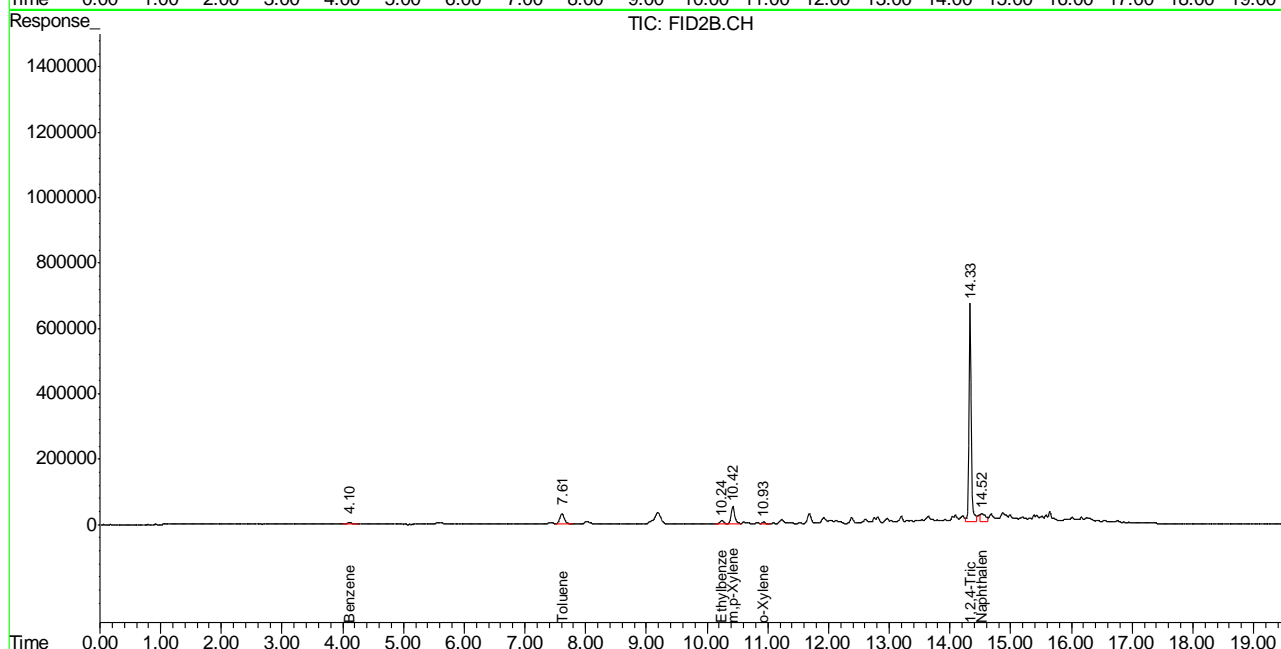
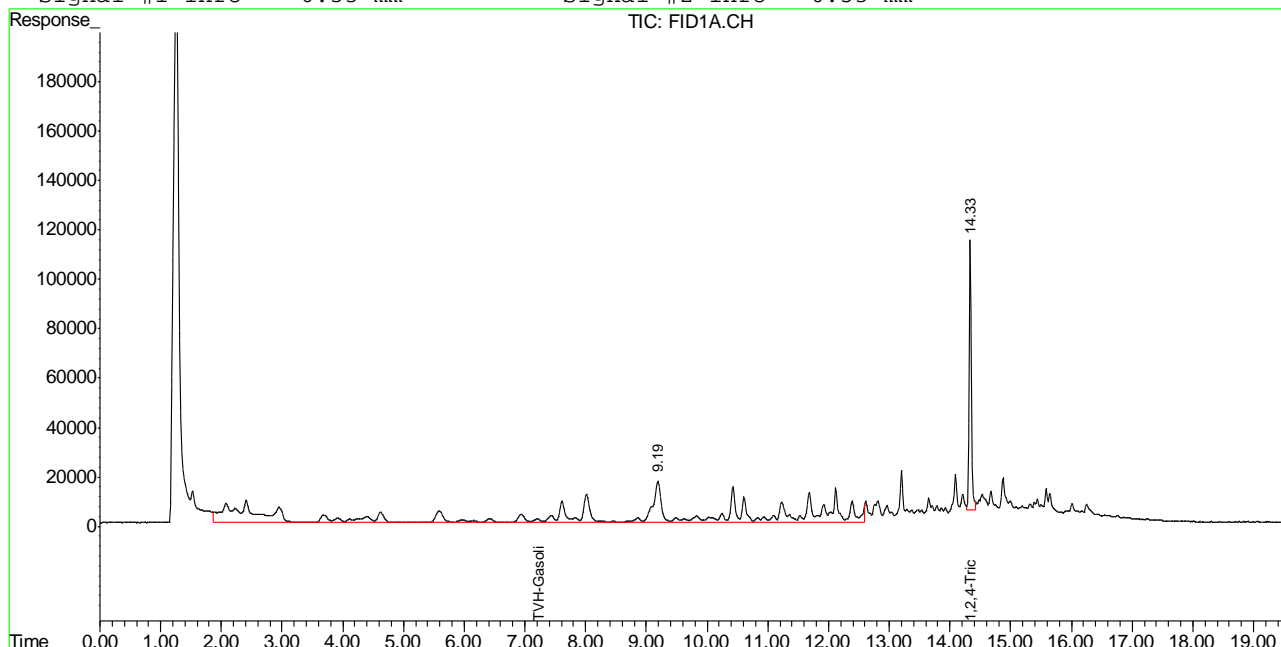
8

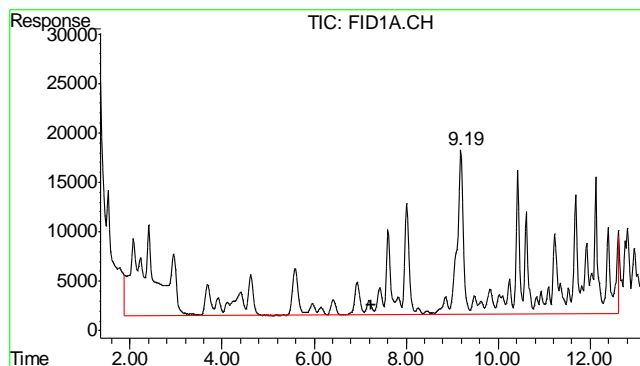
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\060512\GB16228.D\FID1A.CH Vial: 20
 Signal #2 : Y:\1\DATA\060512\GB16228.D\FID2B.CH
 Acq On : 6 Jun 2012 12:01 am Operator: StephK
 Sample : D35038-3, 50X Inst : GC/MS Ins
 Misc : GC2883,GGB903,5.008,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Jun 6 7:15 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Wed Jun 06 08:07:51 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

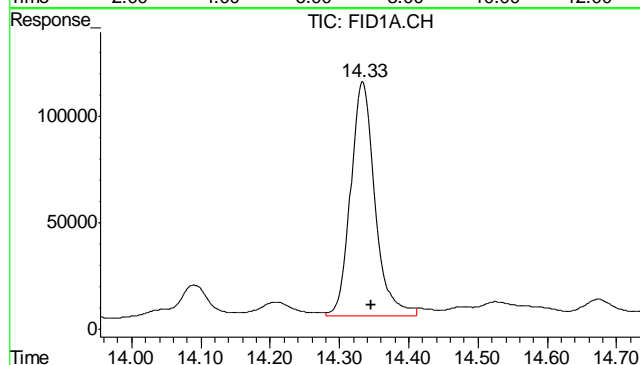
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





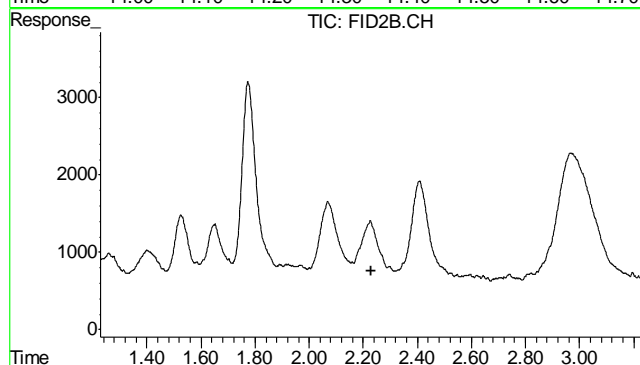
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 14560660
Conc: 0.20 mg/L m



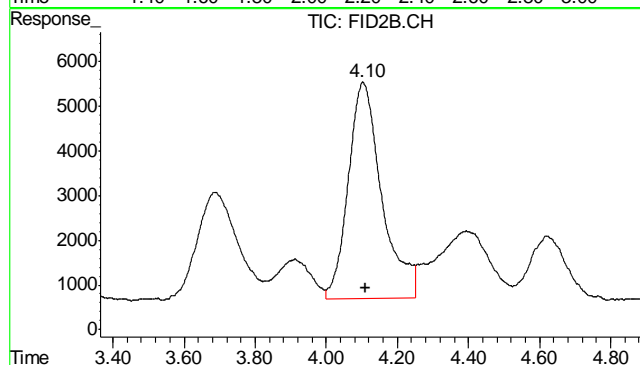
#2 1,2,4-Trichlorobenzene

R.T.: 14.332 min
Delta R.T.: -0.014 min
Response: 2674616
Conc: 85.36 % m



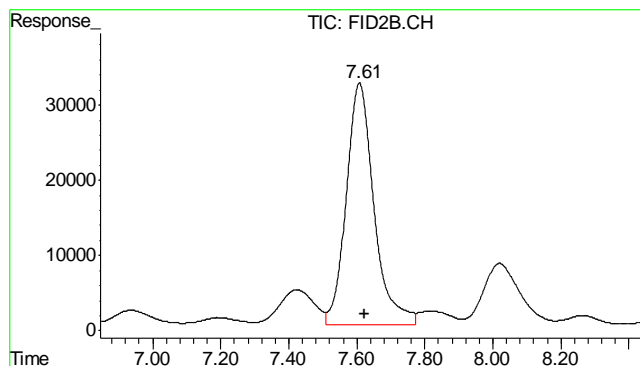
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.228 min
Response: 0
Conc: N.D.



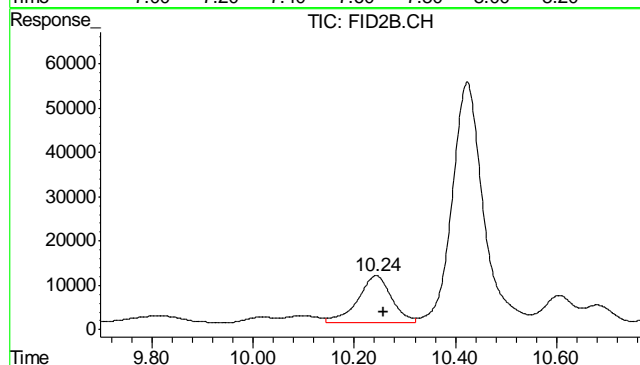
#5 Benzene

R.T.: 4.102 min
Delta R.T.: -0.009 min
Response: 317937
Conc: 0.79 ug/L



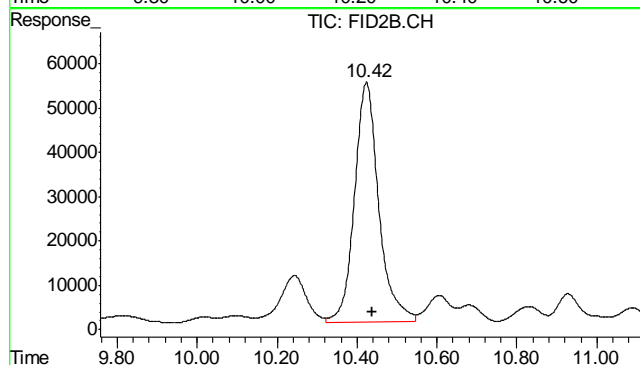
#6 Toluene

R.T.: 7.608 min
Delta R.T.: -0.016 min
Response: 1824944
Conc: 4.61 ug/L



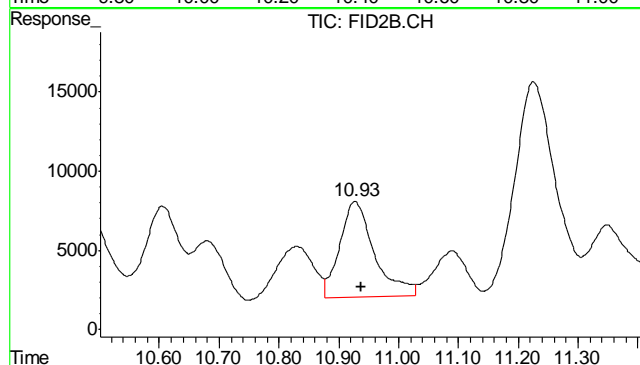
#7 Ethylbenzene

R.T.: 10.244 min
Delta R.T.: -0.014 min
Response: 487935
Conc: 1.44 ug/L



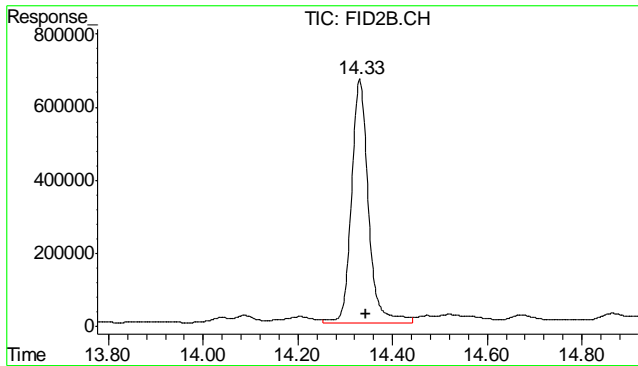
#8 m,p-Xylene

R.T.: 10.423 min
Delta R.T.: -0.016 min
Response: 2284067
Conc: 5.88 ug/L



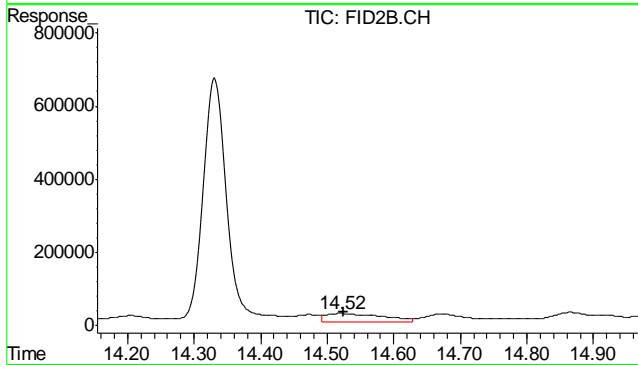
#9 o-Xylene

R.T.: 10.928 min
Delta R.T.: -0.010 min
Response: 243443
Conc: 0.74 ug/L



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

R.T.: 14.331 min
Delta R.T.: -0.012 min
Response: 16751586
Conc: 103.07 %



#11 Naphthalene

R.T.: 14.520 min
Delta R.T.: -0.005 min
Response: 1420619
Conc: 7.20 ug/L

8.1.3

8

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\060512\GB16212.D\FID1A.CH Vial: 4
 Signal #2 : Y:\1\DATA\060512\GB16212.D\FID2B.CH
 Acq On : 5 Jun 2012 2:05 pm Operator: StephK
 Sample : MB Inst : GC/MS Ins
 Misc : GC2883,GGB903,5.000,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Jun 05 15:54:49 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Tue Jun 05 13:51:36 2012
 Response via : Initial Calibration
 DataAcq Meth : TVB4.M

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

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
2) S 1,2,4-Trichlorobenzene	14.35	3168671	101.126	%
10) S 1,2,4-Trichlorobenzene (P)	14.35	18132914	111.568	%
Target Compounds				
1) H TVH-Gasoline	7.23	3904612	<MDL	mg/L
4) T Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T Benzene	0.00	0	N.D.	ug/L d
6) T Toluene	7.64	189995	0.479	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	14.52	255864	1.297	ug/L

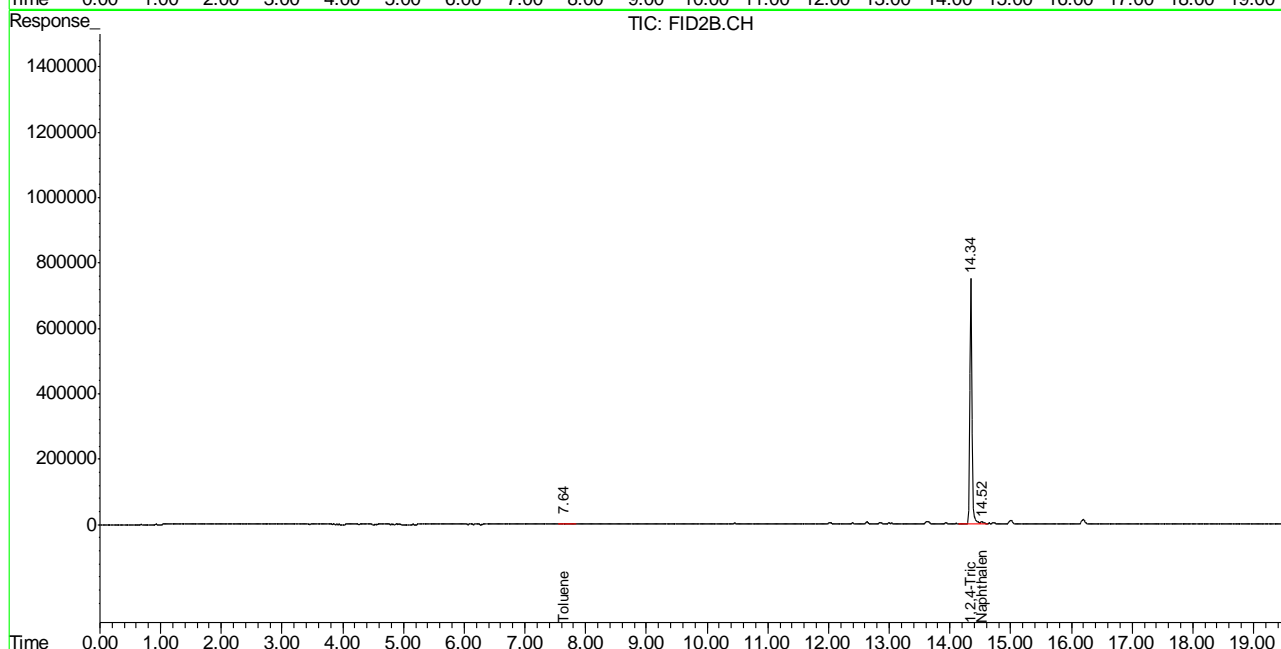
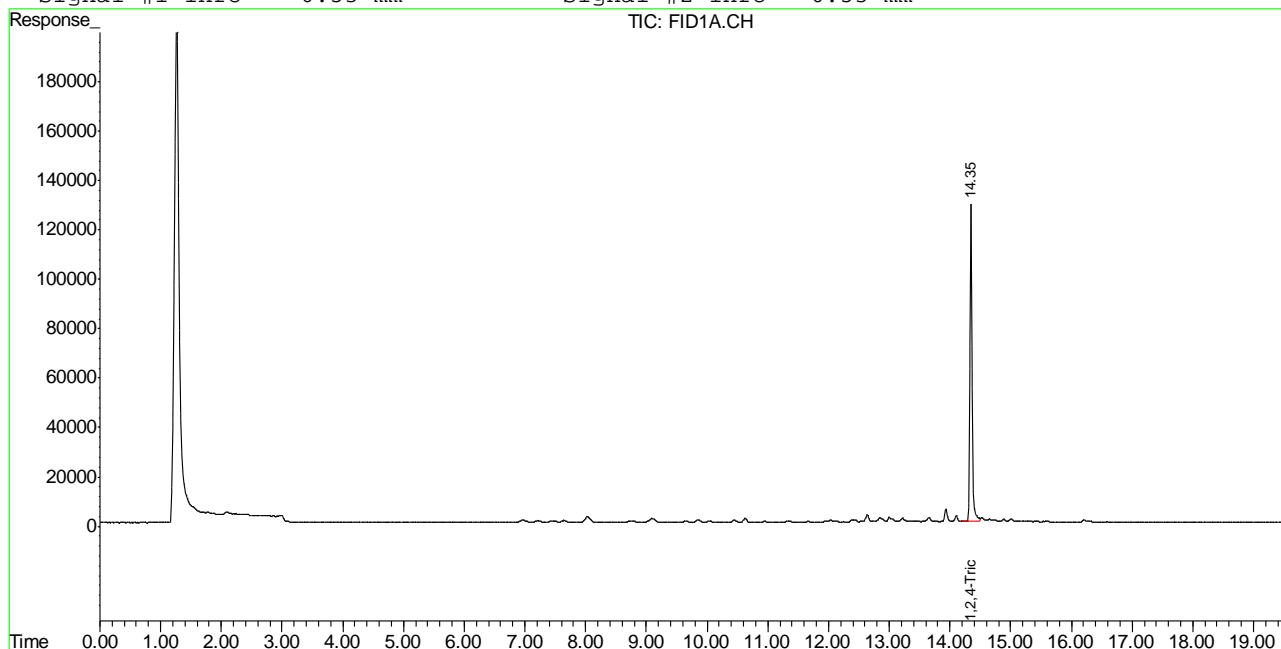
(f)=RT Delta > 1/2 Window (m)=manual int.
 GB16212.D TB868GB868SOIL.M Wed Jun 06 08:14:54 2012 GC

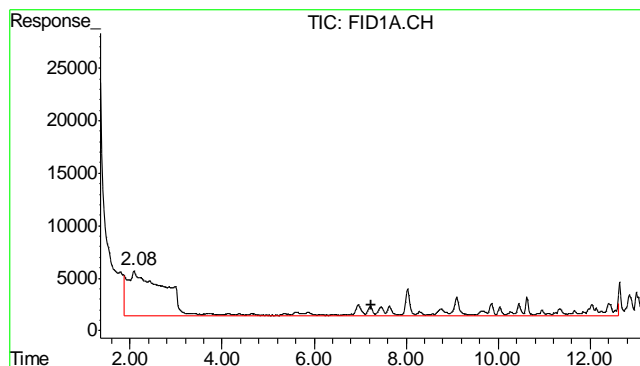
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\060512\GB16212.D\FID1A.CH Vial: 4
Signal #2 : Y:\1\DATA\060512\GB16212.D\FID2B.CH
Acq On : 5 Jun 2012 2:05 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC2883,GGB903,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 5 14:58 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Tue Jun 05 13:51:36 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

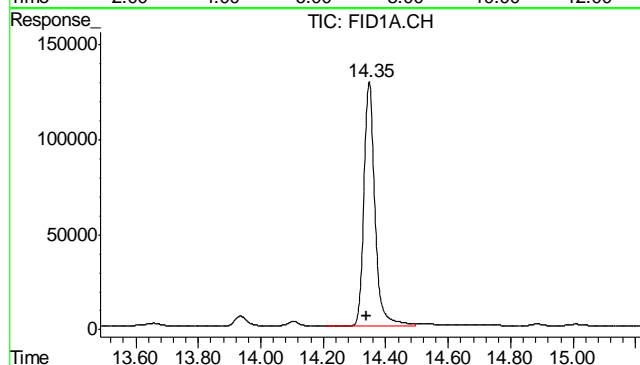
Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





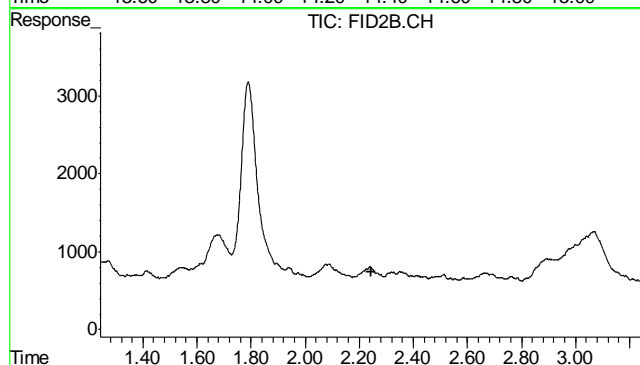
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 3904612
Conc: N.D.



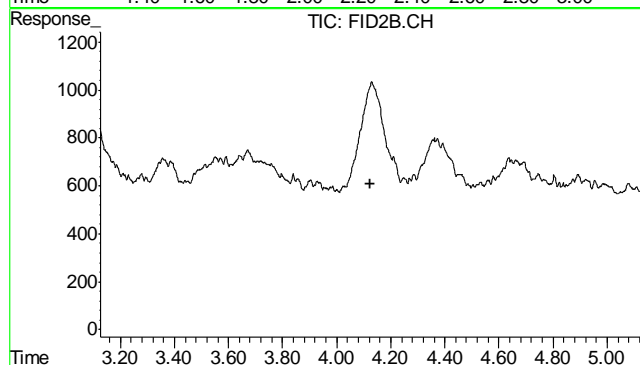
#2 1,2,4-Trichlorobenzene

R.T.: 14.347 min
Delta R.T.: 0.007 min
Response: 3168671
Conc: 101.13 %



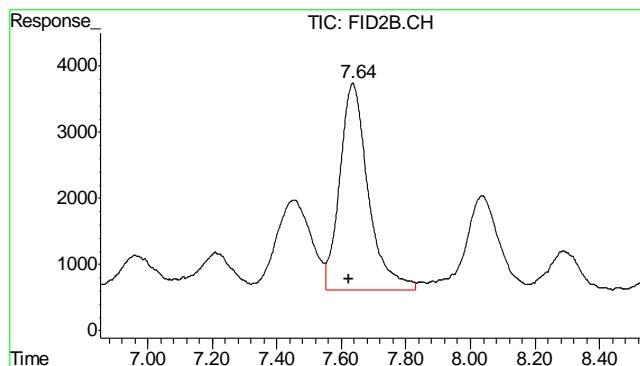
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.243 min
Response: 0
Conc: N.D.



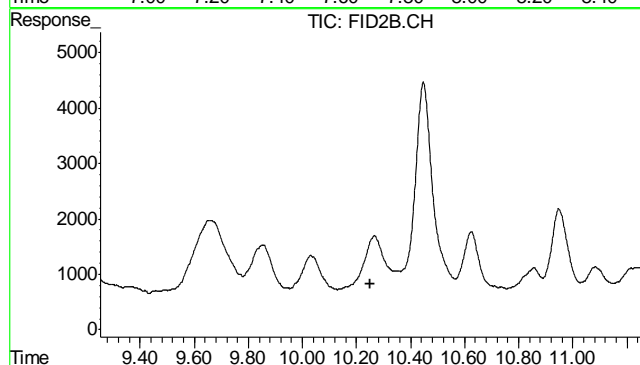
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.125 min
Response: 0
Conc: N.D.



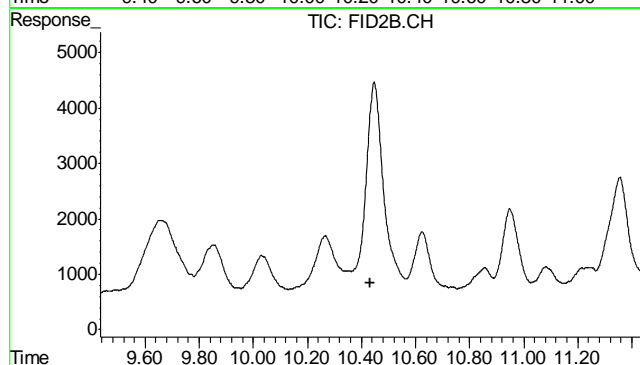
#6 Toluene

R.T.: 7.636 min
Delta R.T.: 0.013 min
Response: 189995
Conc: 0.48 ug/L



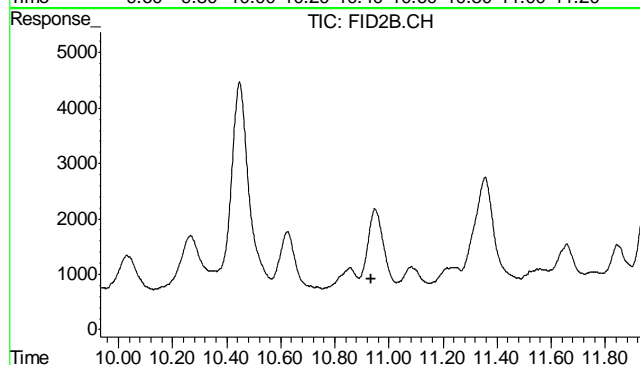
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T. : 10.252 min
Response: 0
Conc: N.D.



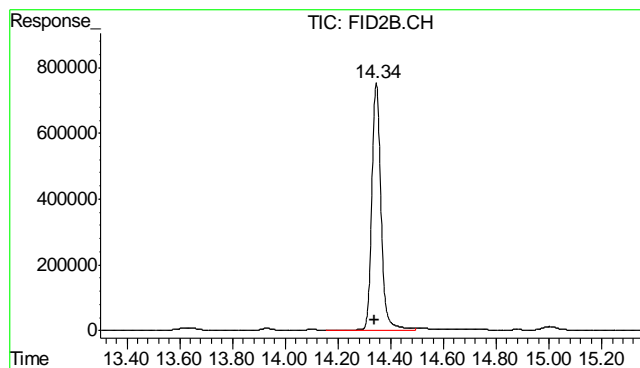
#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T. : 10.434 min
Response: 0
Conc: N.D.



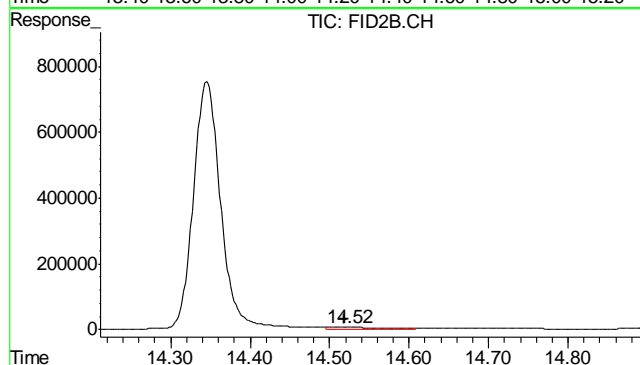
#9 o-Xylene

R.T.: 0.000 min
Exp R.T. : 10.933 min
Response: 0
Conc: N.D.



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

R.T.: 14.346 min
Delta R.T.: 0.008 min
Response: 18132914
Conc: 111.57 %



#11 Naphthalene

R.T.: 14.523 min
Delta R.T.: 0.005 min
Response: 255864
Conc: 1.30 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

Job Number: D35038
Account: XTOKRWR XTO Energy
Project: FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6010-MB	FH005143.D	1	06/08/12	AV	06/06/12	OP6010	GFH285

The QC reported here applies to the following samples: Method: SW846-8015B
D35038-1, D35038-2, D35038-3

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	111% 43-136%

9.1.1
9

Blank Spike Summary

Job Number: D35038
Account: XTOKRWR XTO Energy
Project: FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6010-BS	FH005145.D	1	06/08/12	AV	06/06/12	OP6010	GFH285

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

D35038-1, D35038-2, D35038-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	589	88	58-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	111%	43-136%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D35038
Account: XTOKRWR XTO Energy
Project: FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6010-MS	FH005147.D	1	06/08/12	AV	06/06/12	OP6010	GFH285
OP6010-MSD	FH005149.D	1	06/08/12	AV	06/06/12	OP6010	GFH285
D35039-1	FH005151.D	1	06/08/12	AV	06/06/12	OP6010	GFH285

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

D35038-1, D35038-2, D35038-3

CAS No.	Compound	D35039-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	178	723	795	85	726	76	9	20-183/43

CAS No.	Surrogate Recoveries	MS	MSD	D35039-1	Limits
84-15-1	o-Terphenyl	97%	91%	91%	43-136%

9.3.1
6

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH060812.SEC\
Data File : FH005175.D
Signal(s) : FID2B.ch
Acq On : 8 Jun 2012 6:40 pm
Operator : ashleyv
Sample : D35038-1
Misc : OP6010,GFH285,30.00,,,2,1
ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 11 08:22:45 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH281R.M
Quant Title : DRO-ORO REAR
QLast Update : Tue Jun 05 12:21:36 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
2) s o-Terphenyl	11.675	918559468	776.834 ug/ml
Target Compounds			
1) H TPH-DRO (C10-C28)	9.333	9614989204	7860.239 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

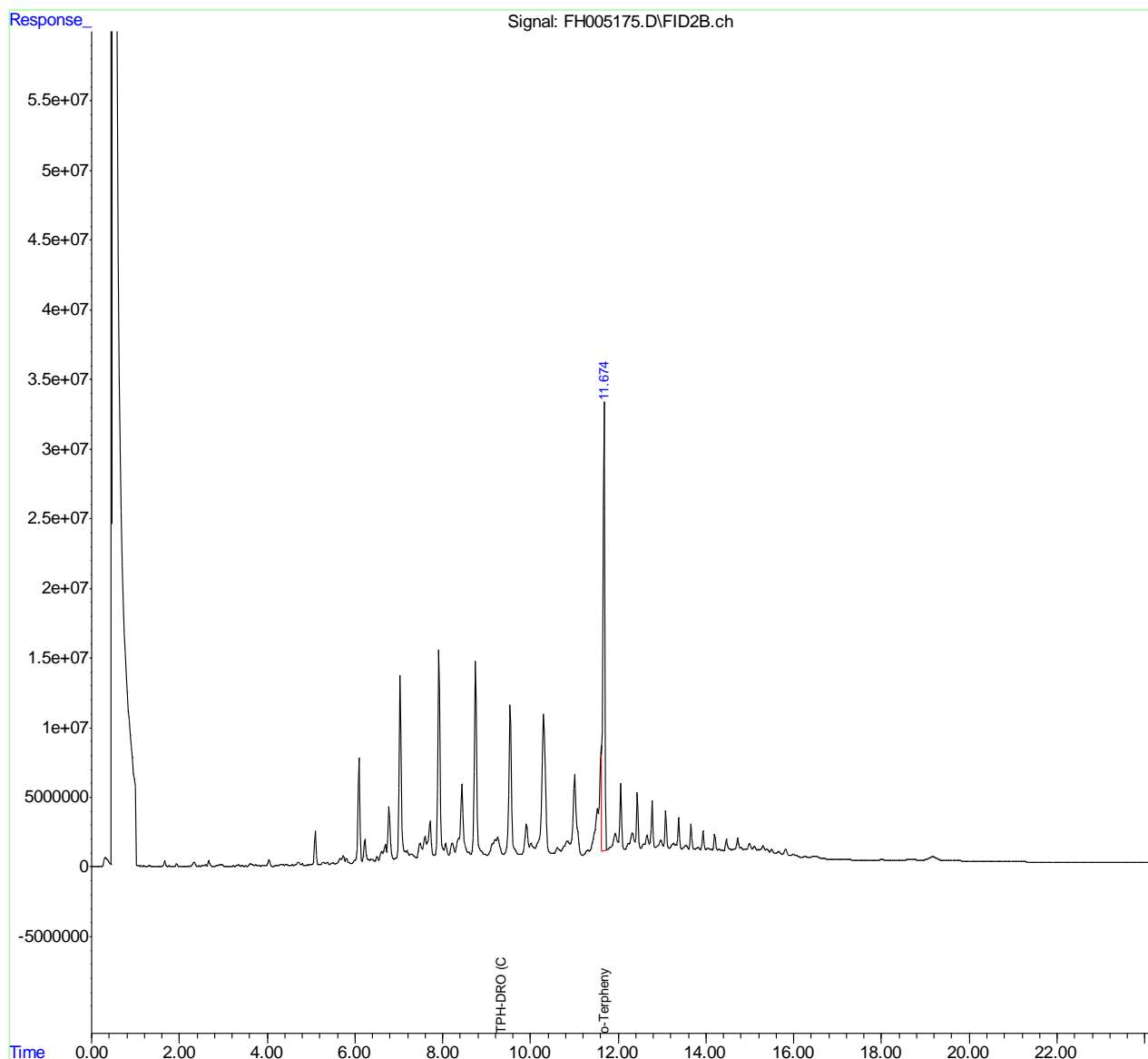
10.1.1
10

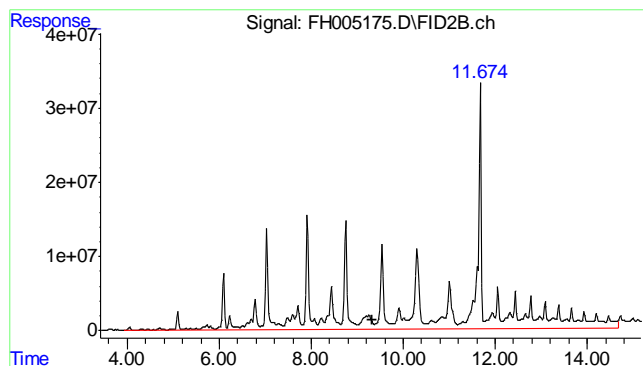
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH060812.SEC\
Data File : FH005175.D
Signal(s) : FID2B.ch
Acq On : 8 Jun 2012 6:40 pm
Operator : ashleyv
Sample : D35038-1
Misc : OP6010,GFH285,30.00,,,2,1
ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 11 08:22:45 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH281R.M
Quant Title : DRO-ORO REAR
QLast Update : Tue Jun 05 12:21:36 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :





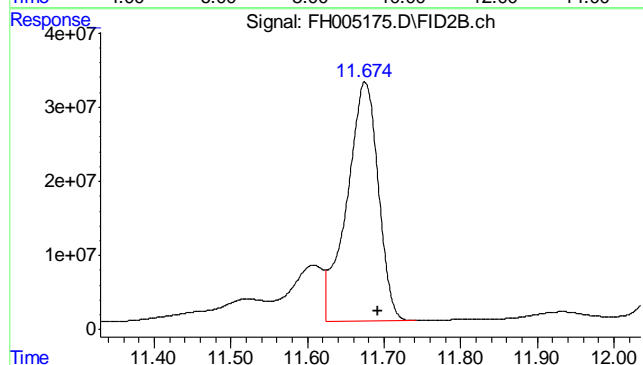
#1 TPH-DRO (C10-C28)

R.T.: 9.333 min

Delta R.T.: 0.000 min

Response: 9614989204

Conc: 7860.24 ug/ml m



#2 o-Terphenyl

R.T.: 11.675 min

Delta R.T.: -0.017 min

Response: 918559468

Conc: 776.83 ug/ml

10.1.1
10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH060812.SEC\
Data File : FH005177.D
Signal(s) : FID2B.ch
Acq On : 8 Jun 2012 7:16 pm
Operator : ashleyv
Sample : D35038-2
Misc : OP6010,GFH285,30.09,,,2,1
ALS Vial : 74 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 11 08:23:22 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH281R.M
Quant Title : DRO-ORO REAR
QLast Update : Tue Jun 05 12:21:36 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
2) s o-Terphenyl	11.675	940294504	795.216 ug/mlm
Target Compounds			
1) H TPH-DRO (C10-C28)	9.333	2922255030	2388.939 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

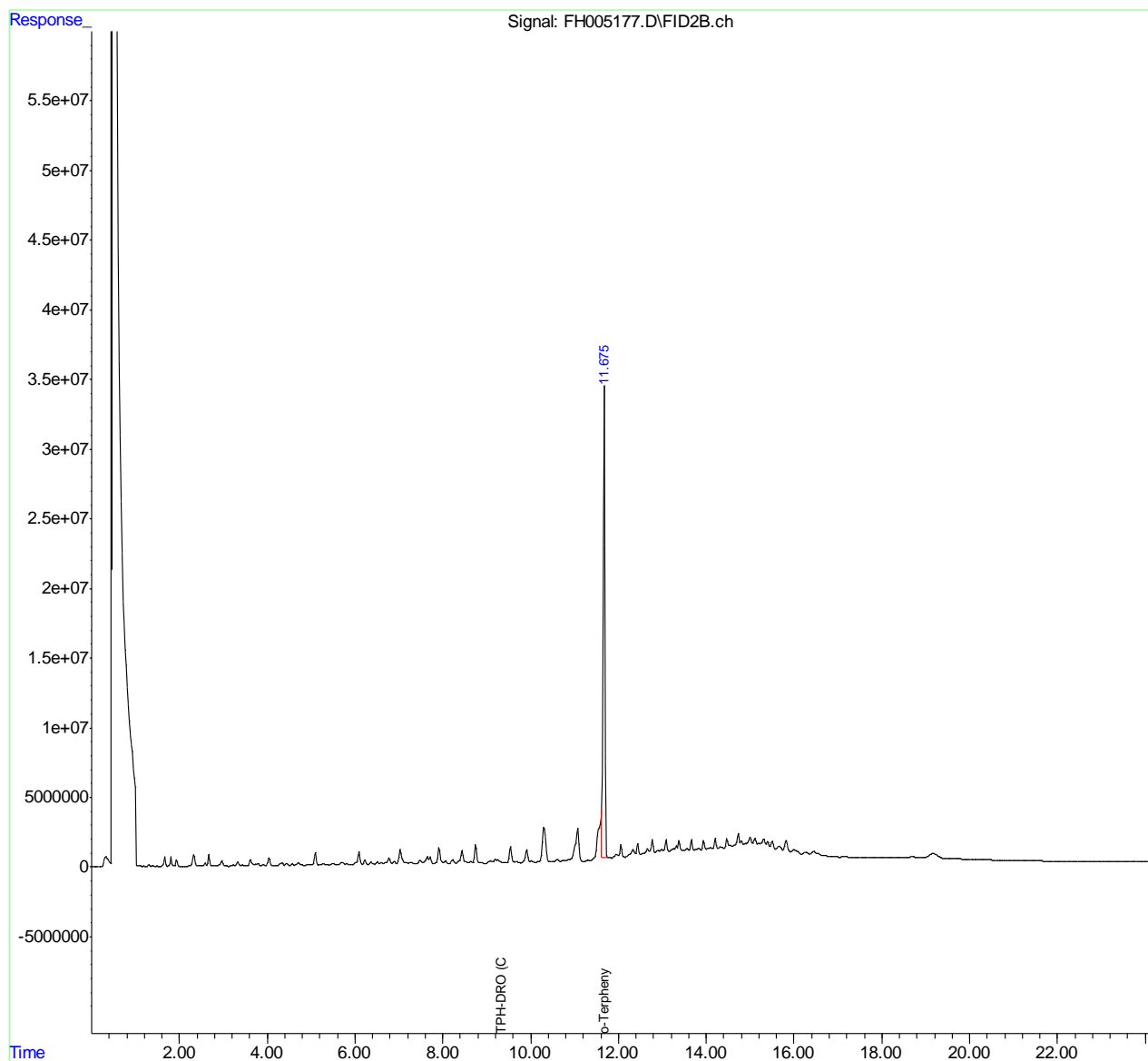
10.12
10

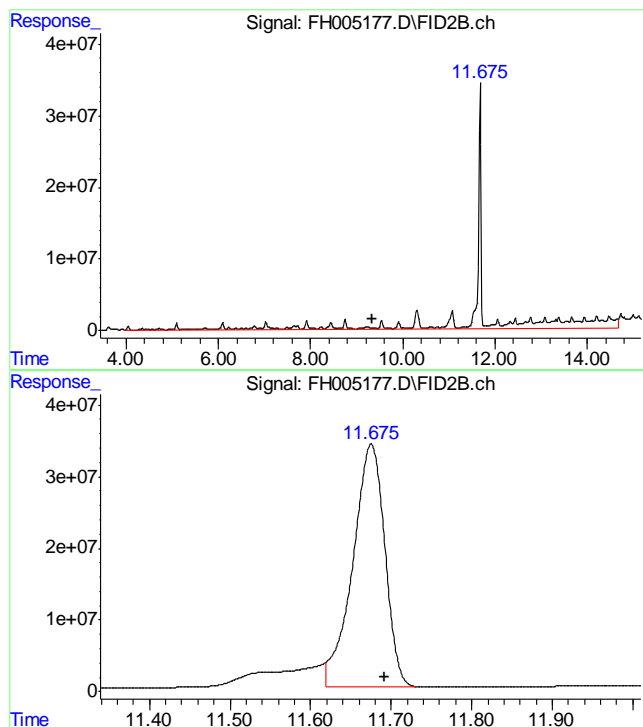
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH060812.SEC\
Data File : FH005177.D
Signal(s) : FID2B.ch
Acq On : 8 Jun 2012 7:16 pm
Operator : ashleyv
Sample : D35038-2
Misc : OP6010,GFH285,30.09,,,2,1
ALS Vial : 74 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 11 08:23:22 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH281R.M
Quant Title : DRO-ORO REAR
QLast Update : Tue Jun 05 12:21:36 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :





#1 TPH-DRO (C10-C28)

R.T.: 9.333 min

Delta R.T.: 0.000 min

Response: 2922255030

Conc: 2388.94 ug/ml m

#2 o-Terphenyl

R.T.: 11.675 min

Delta R.T.: -0.017 min

Response: 940294504

Conc: 795.22 ug/ml m

10.1.2
10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH060812.SEC\
Data File : FH005181.D
Signal(s) : FID2B.ch
Acq On : 8 Jun 2012 8:27 pm
Operator : ashleyv
Sample : D35038-3
Misc : OP6010,GFH285,30.02,,,2,1
ALS Vial : 76 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 11 08:24:37 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH281R.M
Quant Title : DRO-ORO REAR
QLast Update : Tue Jun 05 12:21:36 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
2) s o-Terphenyl	11.677	1064628526	900.366 ug/mlm
Target Compounds			
1) H TPH-DRO (C10-C28)	9.333	3050798795	2494.023 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

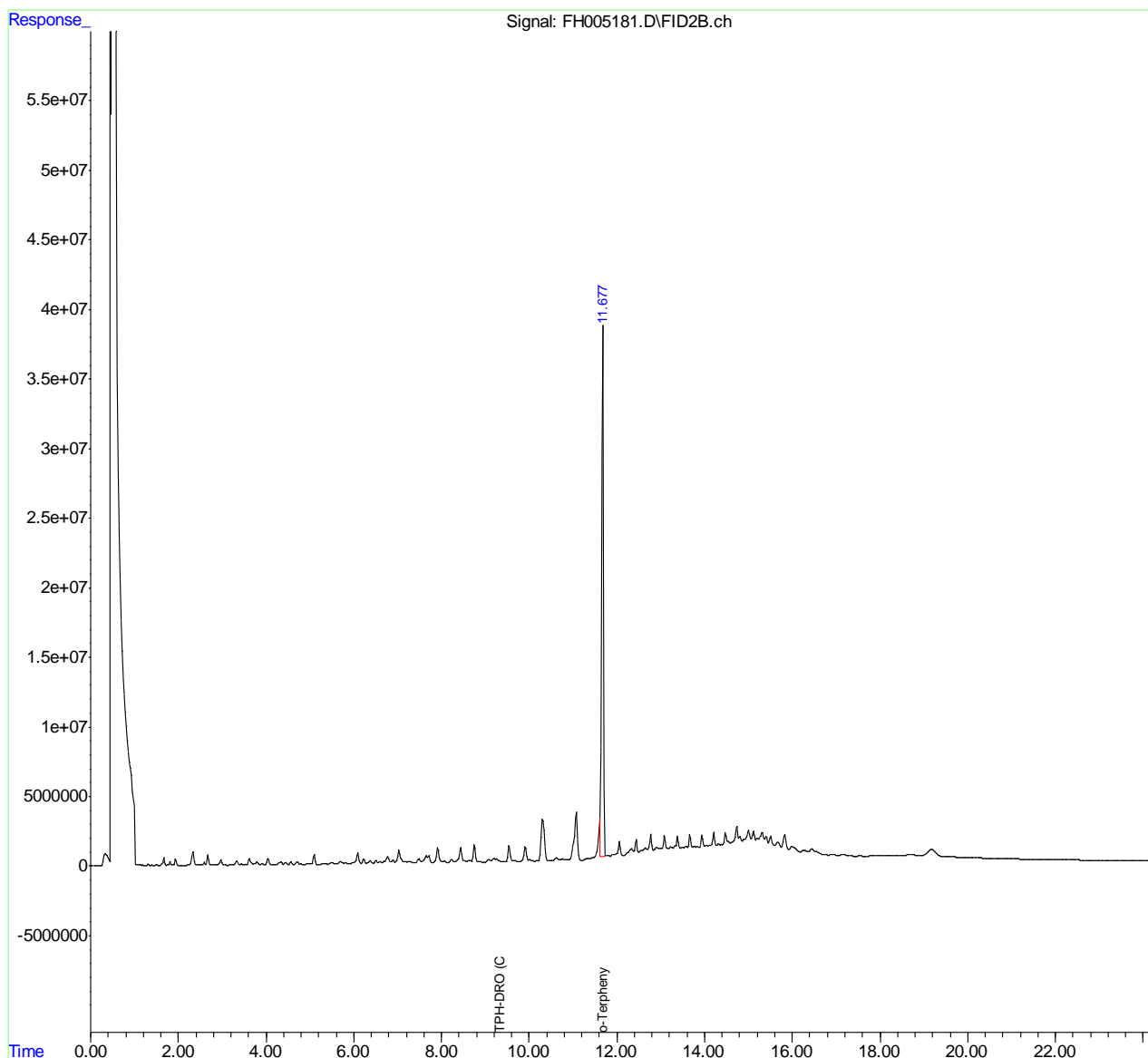
10.1.3
10

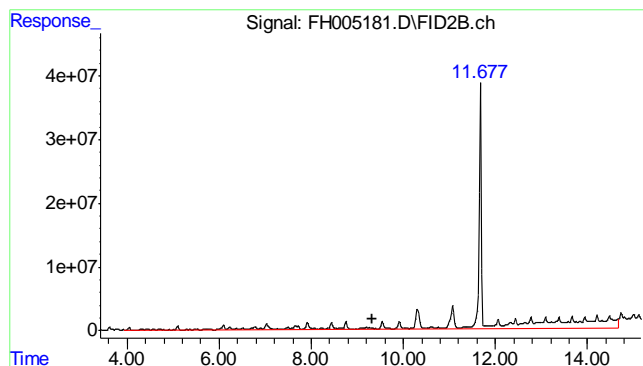
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH060812.SEC\
Data File : FH005181.D
Signal(s) : FID2B.ch
Acq On : 8 Jun 2012 8:27 pm
Operator : ashleyv
Sample : D35038-3
Misc : OP6010,GFH285,30.02,,,2,1
ALS Vial : 76 Sample Multiplier: 1

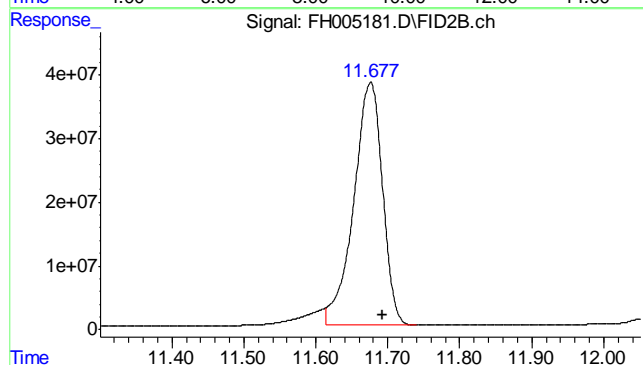
Integration File: events.e
Quant Time: Jun 11 08:24:37 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH281R.M
Quant Title : DRO-ORO REAR
QLast Update : Tue Jun 05 12:21:36 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :





#1 TPH-DRO (C10-C28)
 R.T.: 9.333 min
 Delta R.T.: 0.000 min
 Response: 3050798795
 Conc: 2494.02 ug/ml m



#2 o-Terphenyl
 R.T.: 11.677 min
 Delta R.T.: -0.015 min
 Response: 1064628526
 Conc: 900.37 ug/ml m

10.1.3
10

Judy Melson
06/08/12 13:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH060812.SEC\
Data File : FH005143.D
Signal(s) : FID2B.ch
Acq On : 8 Jun 2012 9:10 am
Operator : ashleyv
Sample : OP6010-MB
Misc : OP6010,GFH285,30.00,,,2,1
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 08 10:20:31 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH281R.M
Quant Title : DRO-ORO REAR
QLast Update : Tue Jun 05 12:21:36 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
2) s o-Terphenyl	11.679	1312233100	1109.768 ug/mlm
Target Compounds			
1) H TPH-DRO (C10-C28)	9.333	73143573	59.795 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

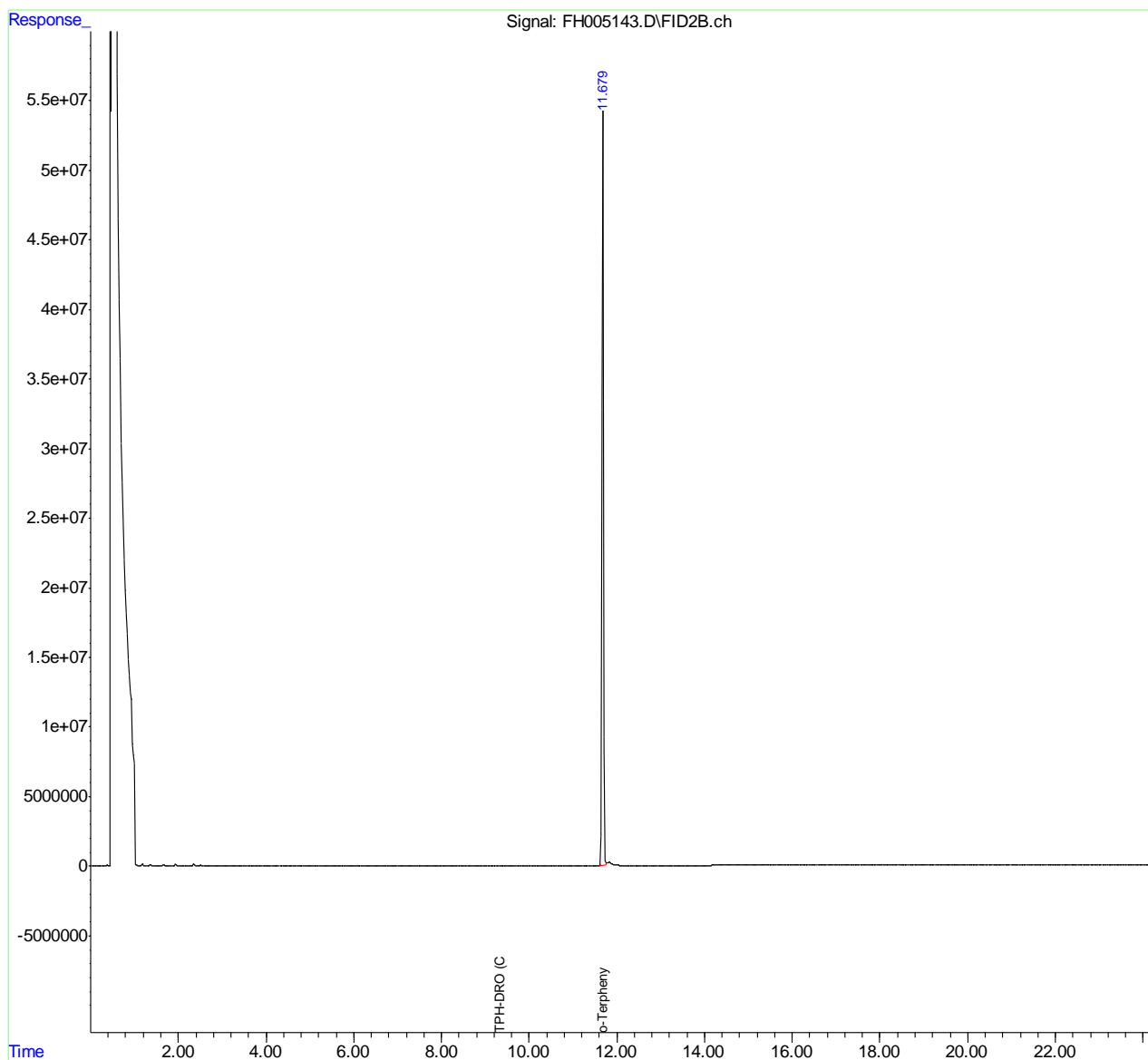
10.2.1
10

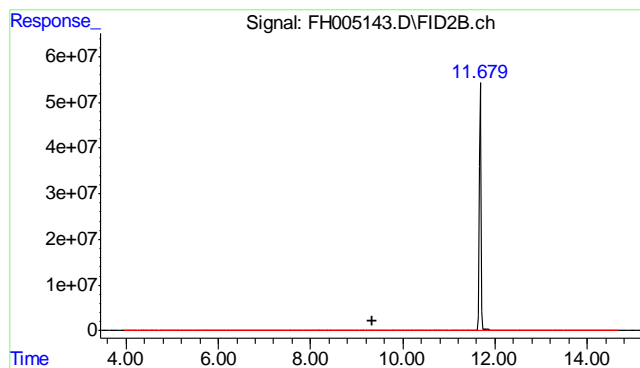
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH060812.SEC\
Data File : FH005143.D
Signal(s) : FID2B.ch
Acq On : 8 Jun 2012 9:10 am
Operator : ashleyv
Sample : OP6010-MB
Misc : OP6010,GFH285,30.00,,,2,1
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 08 10:20:31 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH281R.M
Quant Title : DRO-ORO REAR
QLast Update : Tue Jun 05 12:21:36 2012
Response via : Initial Calibration
Integrator: ChemStation

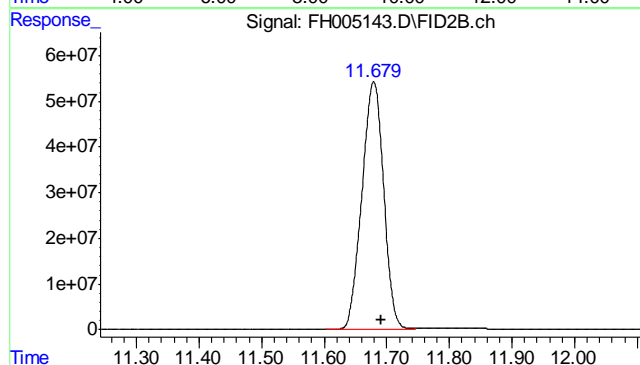
Volume Inj. :
Signal Phase :
Signal Info :





#1 TPH-DRO (C10-C28)

R.T.: 9.333 min
Delta R.T.: 0.000 min
Response: 73143573
Conc: 59.79 ug/ml m



#2 o-Terphenyl

R.T.: 11.679 min
Delta R.T.: -0.013 min
Response: 1312233100
Conc: 1109.77 ug/ml m

10.2.1
10