

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF111518\
 Data File : VF060755.D
 Acq On : 15 Nov 2018 19:14
 Operator : VA/AP
 Sample : J5911-01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FDSB-09(10-12)

Manual Integrations
 APPROVED

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 11/16/2018 1:25:50 PM

Quant Time: Nov 16 05:57:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	132828	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	162221	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.84	117	90774	50.00	ug/l	0.05
72) 1,4-Dichlorobenzene-d4	12.60	152	32184	50.00	ug/l	0.03

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	52457	34.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.24%	
35) Dibromofluoromethane	4.12	113	74670	61.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.46%	
50) Toluene-d8	7.59	98	49665	13.16	ug/l	0.01
Spiked Amount	50.000		Recovery	=	26.32%	
62) 4-Bromofluorobenzene	11.40	95	1062260	796.54	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	1593.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Cyclohexane	3.76	56	2950965m	1095.73	ug/l	
39) Methylcyclohexane	5.58	83	19373479m	8876.04	ug/l	
73) Isopropylbenzene	11.26	105	5488656m	2118.69	ug/l	
78) n-propylbenzene	11.71	91	7979295	2640.97	ug/l	86
80) 1,3,5-Trimethylbenzene	11.94	105	1208353m	587.52	ug/l	
84) 1,2,4-Trimethylbenzene	12.29	105	1843627	866.74	ug/l	95
85) sec-Butylbenzene	12.39	105	2339897m	789.89	ug/l	
86) p-Isopropyltoluene	12.52	119	1615476m	652.96	ug/l	
89) n-Butylbenzene	12.88	91	1725827m	683.54	ug/l	
95) Naphthalene	14.46	128	43552	32.87	ug/l	98

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

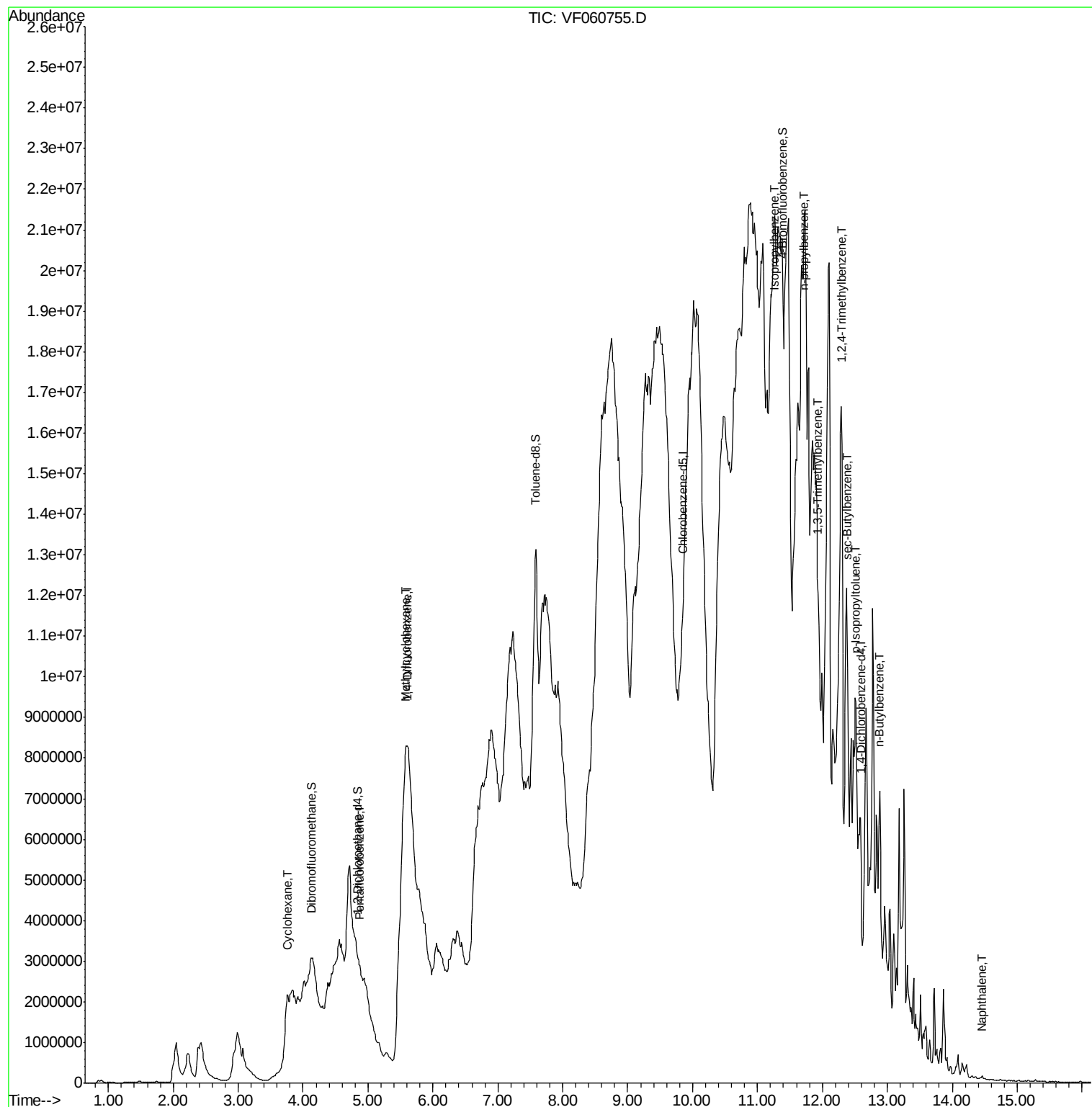
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF111518\
Data File : VF060755.D
Acq On : 15 Nov 2018 19:14
Operator : VA/AP
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FDSB-09(10-12)

Manual Integrations
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Quant Time: Nov 16 05:57:45 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060755.D

Acq: 15 Nov 2018 19:14

Instrument :

MSVOA_F

ClientSampleId :

FDSB-09(10-12)

Tgt Ion: 168 Resp: 132828

Ion Ratio Lower Upper

168 100

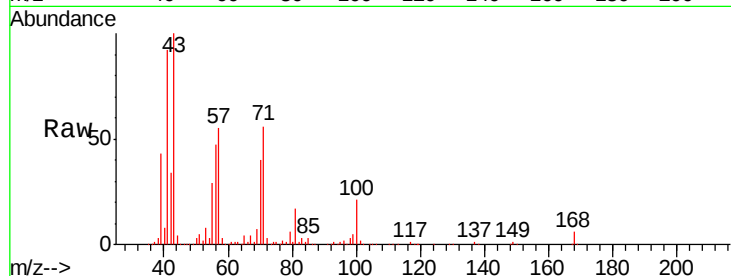
99 83.0 57.2 85.8

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

25000

20000

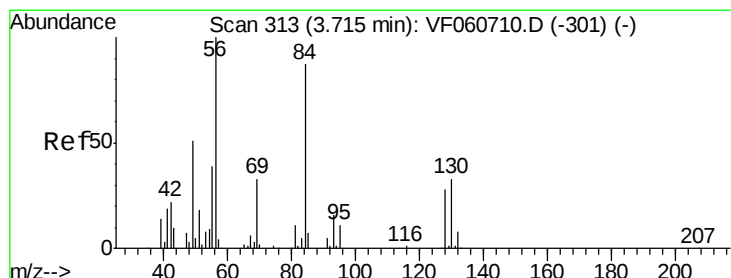
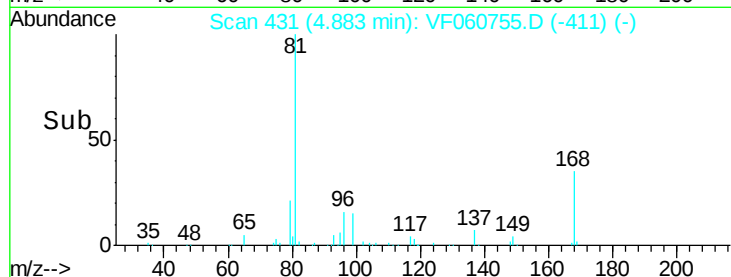
15000

10000

5000

0

Time-->



#31

Cyclohexane

Concen: 1095.73 ug/l m

RT: 3.76 min Scan# 317

Delta R.T. 0.04 min

Lab File: VF060755.D

Acq: 15 Nov 2018 19:14

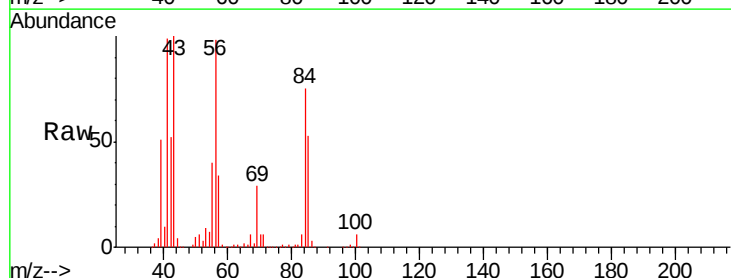
Tgt Ion: 56 Resp: 2950965

Ion Ratio Lower Upper

56 100

69 29.5 26.0 39.0

84 76.2 69.4 104.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0

3.76

400000

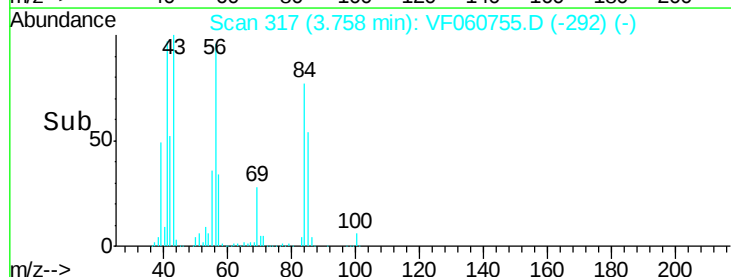
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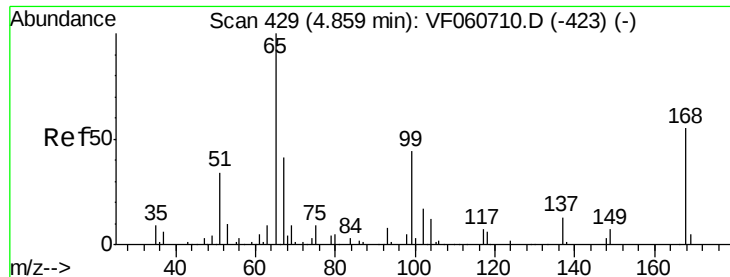
200000

100000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 34.62 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060755.D

Acq: 15 Nov 2018 19:14

Instrument :

MSVOA_F

ClientSampleId :

FDSB-09(10-12)

Tgt Ion: 65 Resp: 52457

Ion Ratio Lower Upper

65 100

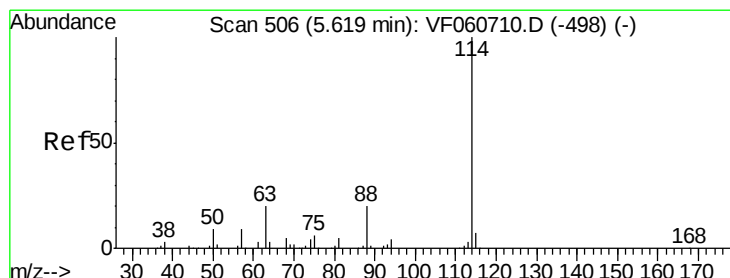
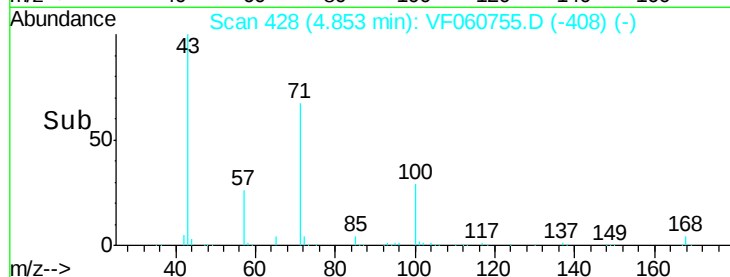
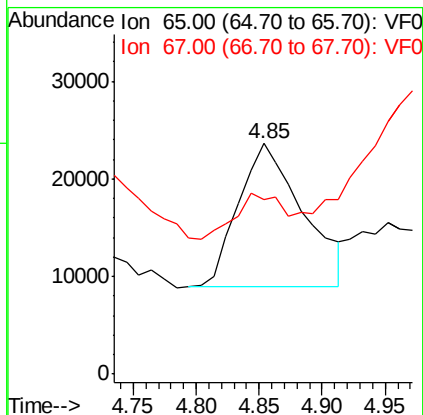
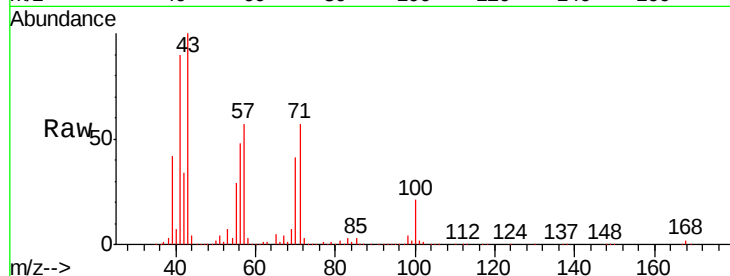
67 75.9 0.0 90.2

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060755.D

Acq: 15 Nov 2018 19:14

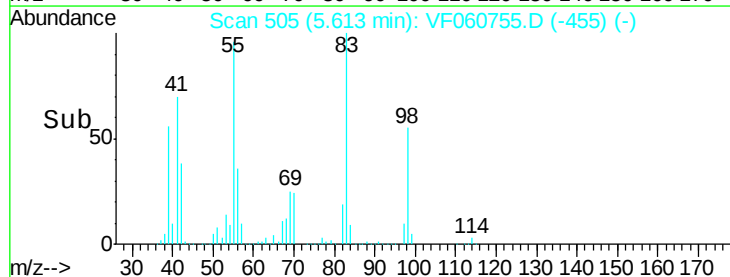
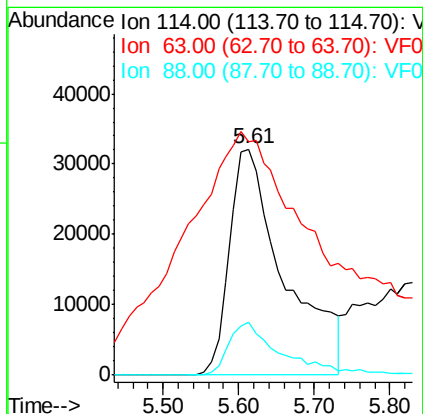
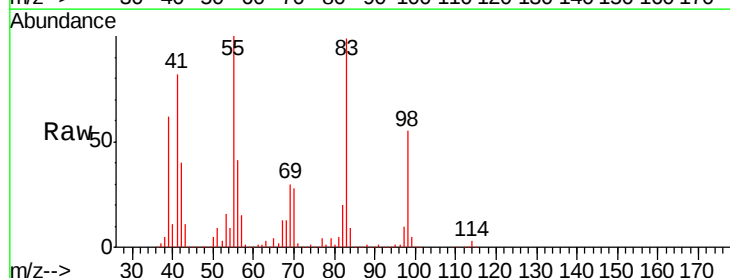
Tgt Ion: 114 Resp: 162221

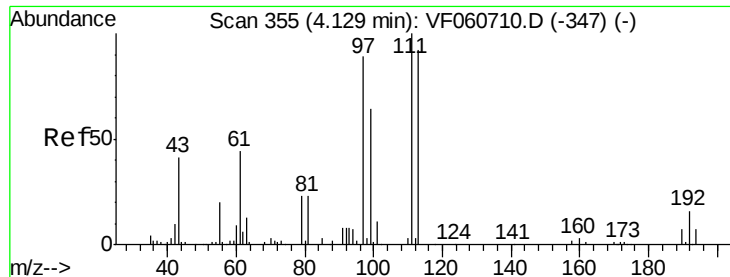
Ion Ratio Lower Upper

114 100

63 103.2 0.0 40.8#

88 23.3 0.0 39.6





#35

Dibromofluoromethane

Concen: 61.23 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF060755.D

Acq: 15 Nov 2018 19:14

Instrument :

MSVOA_F

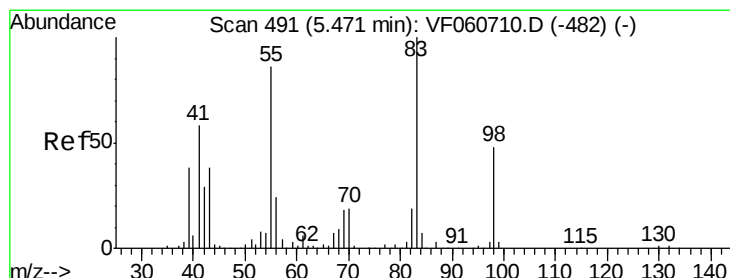
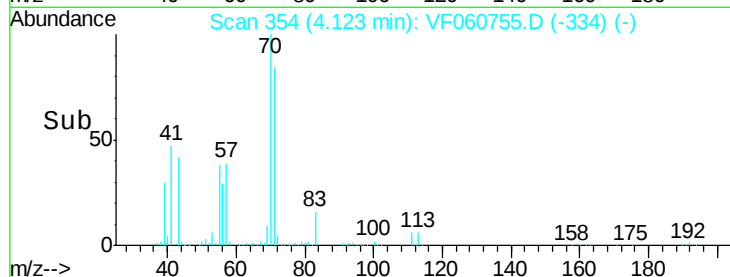
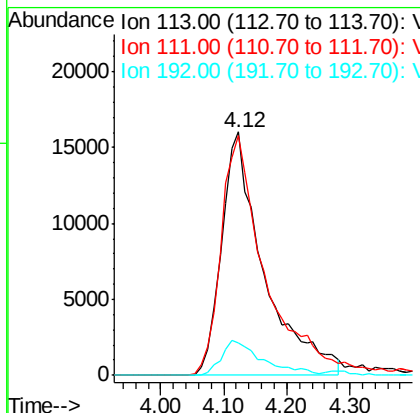
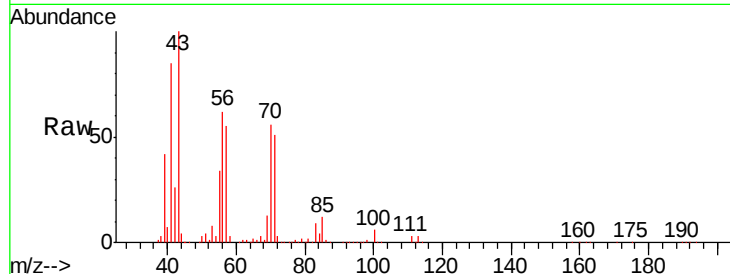
ClientSampleId :

FDSB-09(10-12)

Tgt Ion	Ratio	Lower	Upper
113	100		
111	98.4	87.1	130.7
192	13.1	13.8	20.6

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#39

Methylcyclohexane

Concen: 8876.04 ug/l m

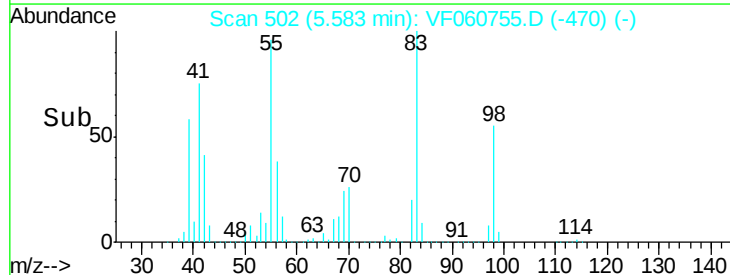
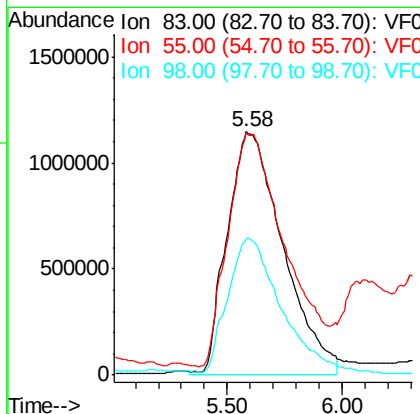
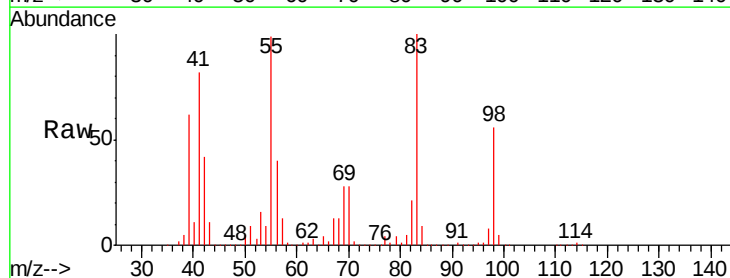
RT: 5.58 min Scan# 502

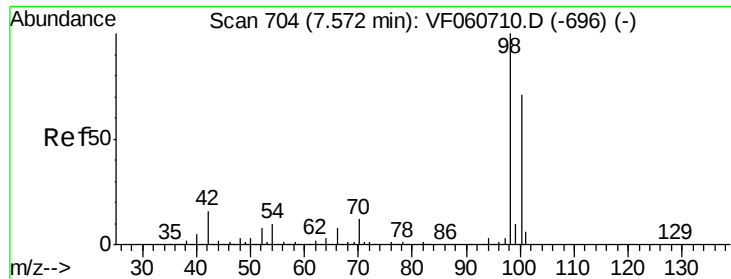
Delta R.T. 0.11 min

Lab File: VF060755.D

Acq: 15 Nov 2018 19:14

Tgt Ion	Ratio	Lower	Upper
83	100		
55	99.4	69.0	103.4
98	56.1	38.5	57.7





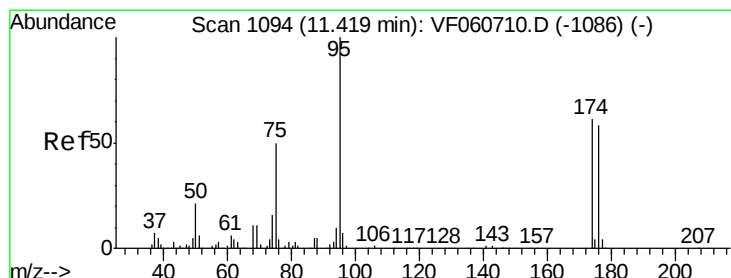
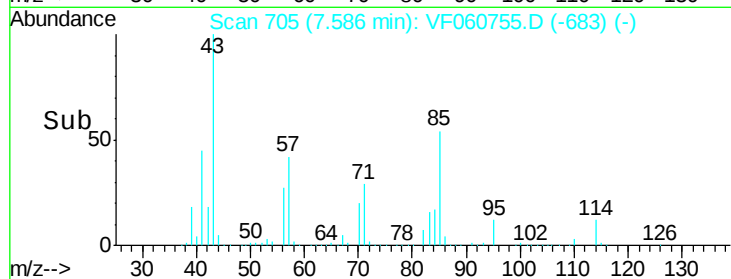
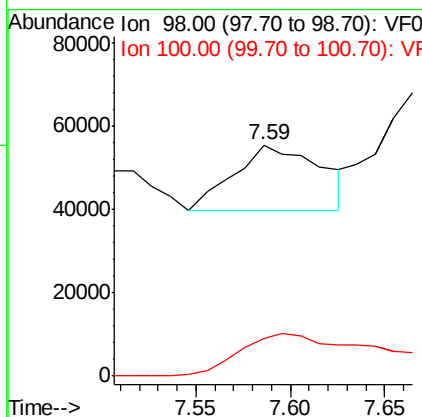
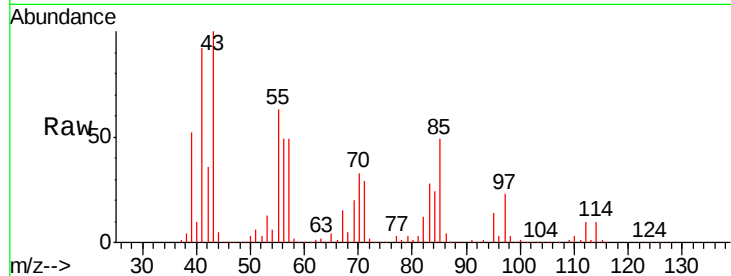
#50
Toluene-d8
Concen: 13.16 ug/l
RT: 7.59 min Scan# 705
Delta R.T. 0.01 min
Lab File: VF060755.D
Acq: 15 Nov 2018 19:14

Instrument :
MSVOA_F
ClientSampleId :
FDSB-09(10-12)

Tgt Ion: 98 Resp: 49665
Ion Ratio Lower Upper
98 100
100 16.4 56.5 84.7#

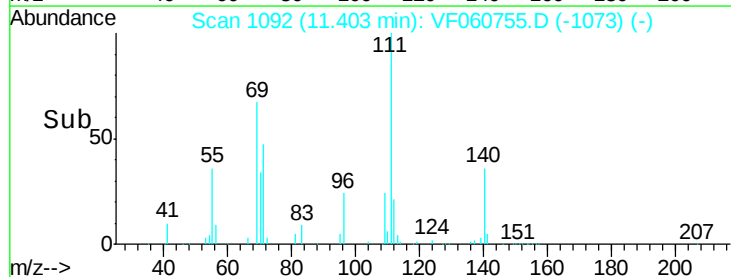
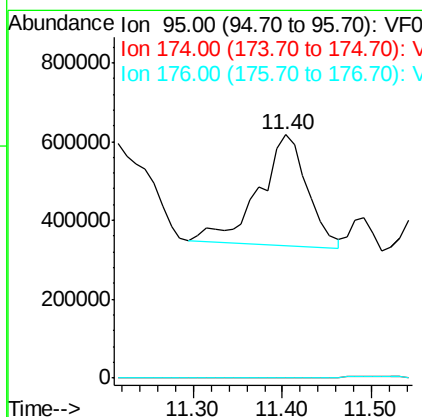
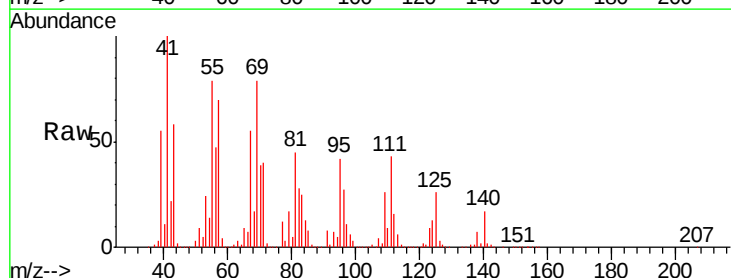
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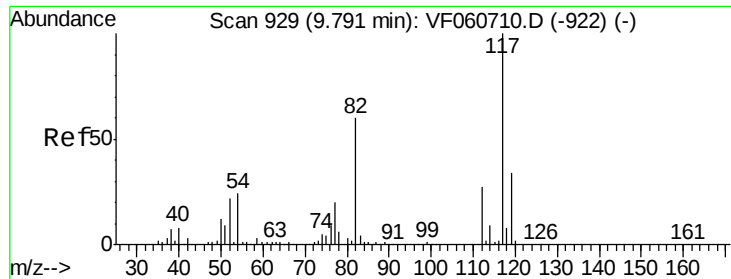
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#62
4-Bromofluorobenzene
Concen: 796.54 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF060755.D
Acq: 15 Nov 2018 19:14

Tgt Ion: 95 Resp: 1062260
Ion Ratio Lower Upper
95 100
174 0.0 0.0 121.6
176 0.0 0.0 115.2





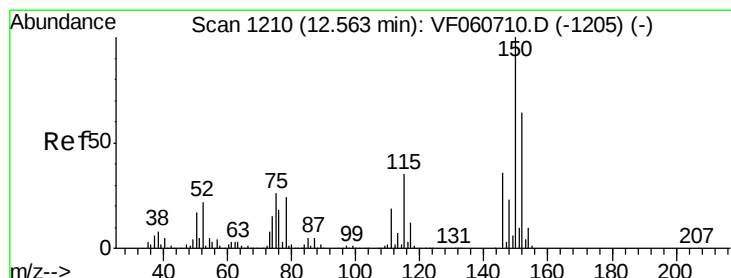
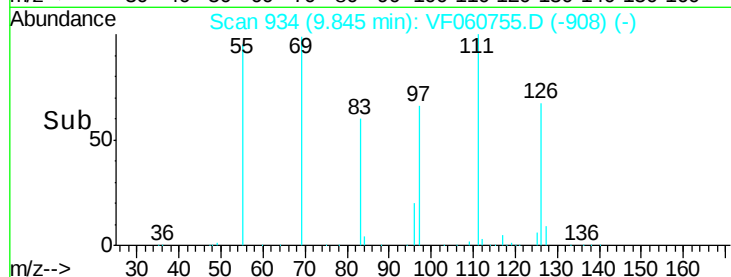
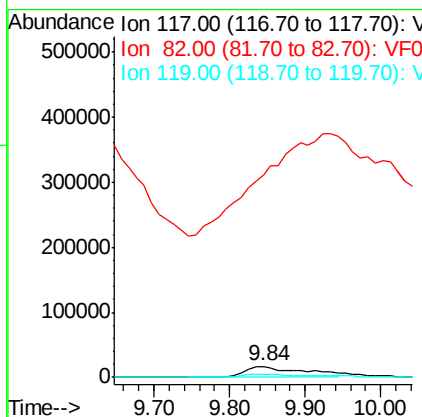
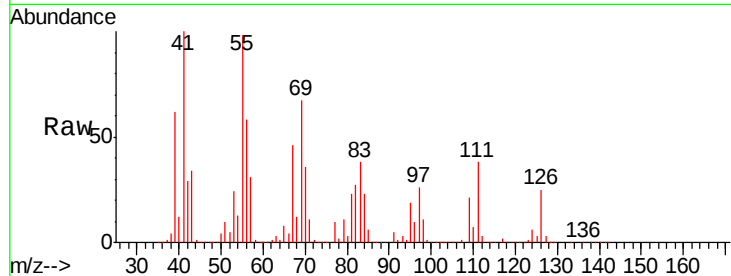
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.84 min Scan# 934
Delta R.T. 0.05 min
Lab File: VF060755.D
Acq: 15 Nov 2018 19:14

Instrument :
MSVOA_F
ClientSampleId :
FDSB-09(10-12)

Tgt Ion:117 Resp: 90774
Ion Ratio Lower Upper
117 100
82 1793.3 47.9 71.9
119 29.8 26.8 40.2

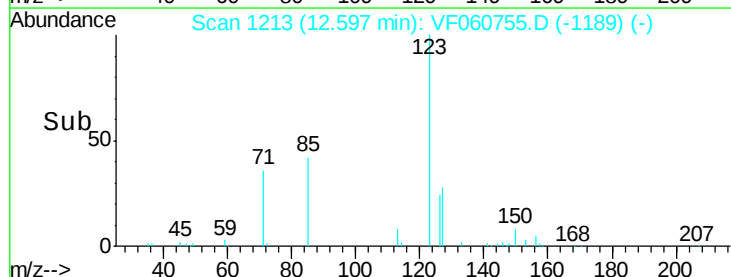
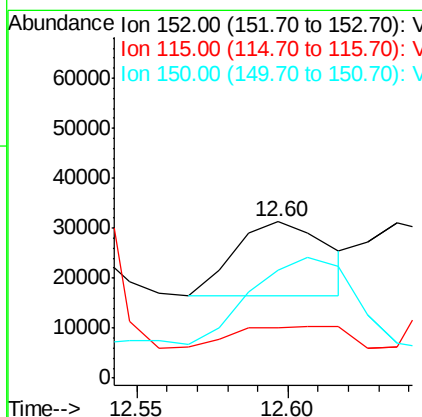
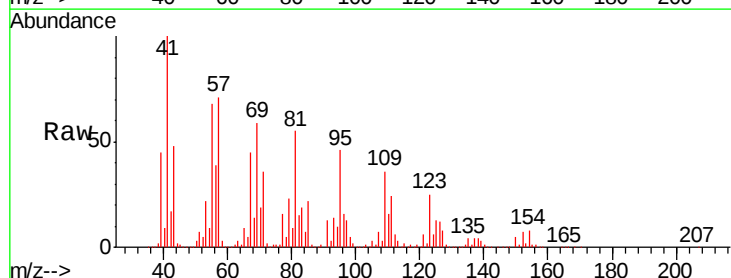
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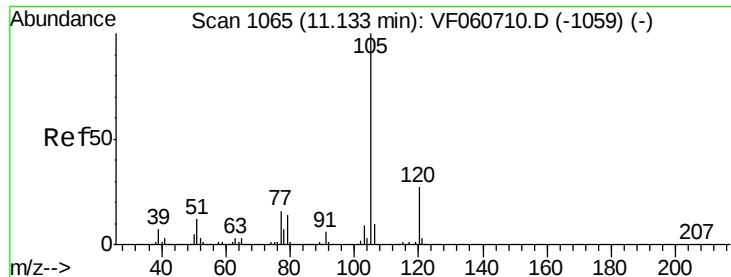
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#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.60 min Scan# 1213
Delta R.T. 0.03 min
Lab File: VF060755.D
Acq: 15 Nov 2018 19:14

Tgt Ion:152 Resp: 32184
Ion Ratio Lower Upper
152 100
115 31.9 27.9 83.7
150 69.1 0.0 316.4





#73

Isopropylbenzene

Concen: 2118.69 ug/l m

RT: 11.26 min Scan# 1077

Delta R.T. 0.12 min

Lab File: VF060755.D

Acq: 15 Nov 2018 19:14

Instrument :

MSVOA_F

ClientSampleId :

FDSB-09(10-12)

Tgt Ion: 105 Resp: 5488656

Ion Ratio Lower Upper

105 100

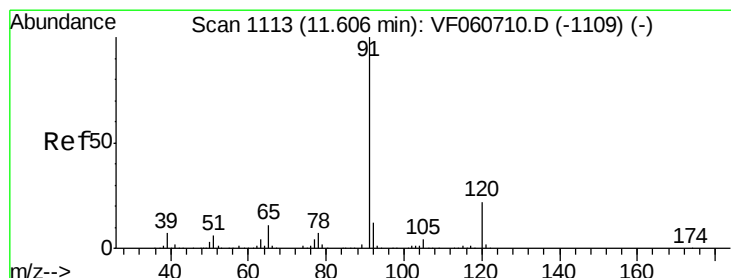
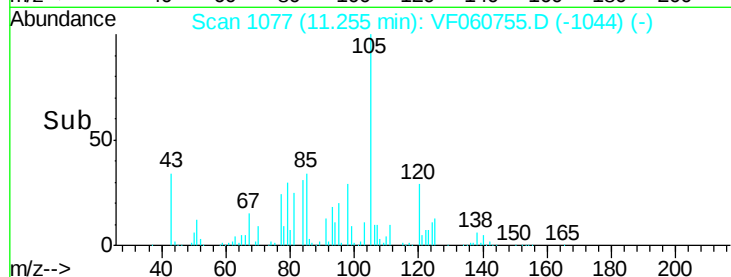
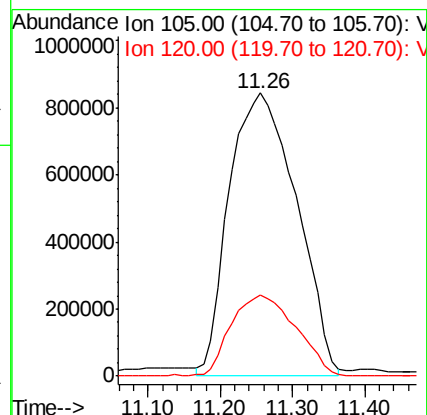
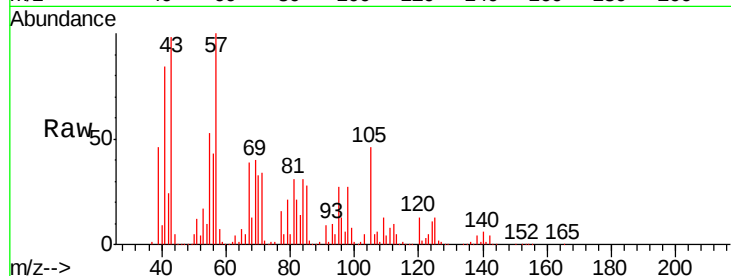
120 28.6 13.4 40.1

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#78

n-propylbenzene

Concen: 2640.97 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.10 min

Lab File: VF060755.D

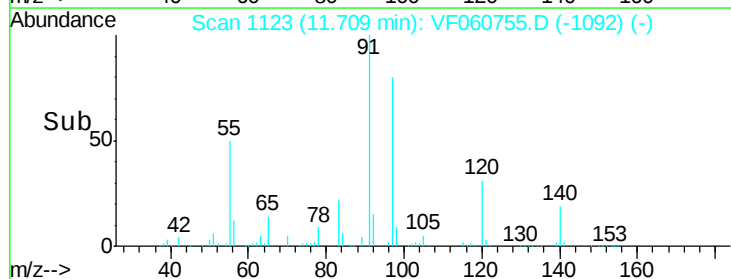
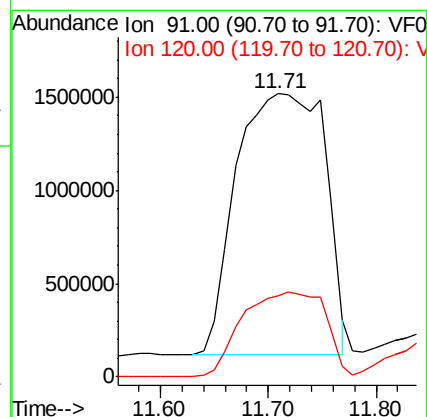
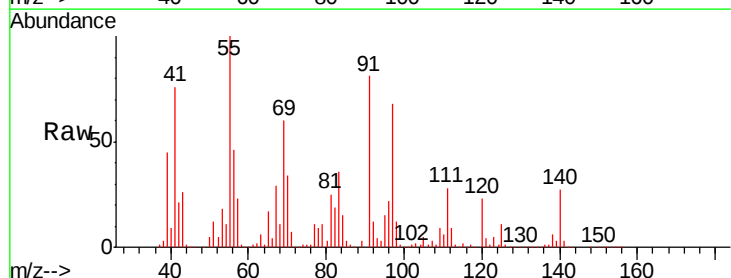
Acq: 15 Nov 2018 19:14

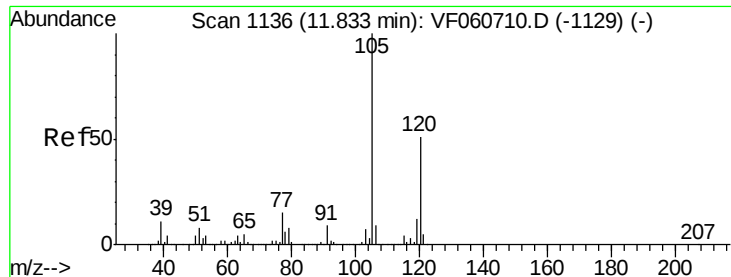
Tgt Ion: 91 Resp: 7979295

Ion Ratio Lower Upper

91 100

120 28.8 11.2 33.5





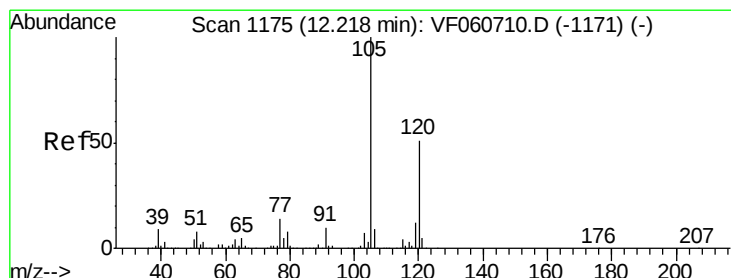
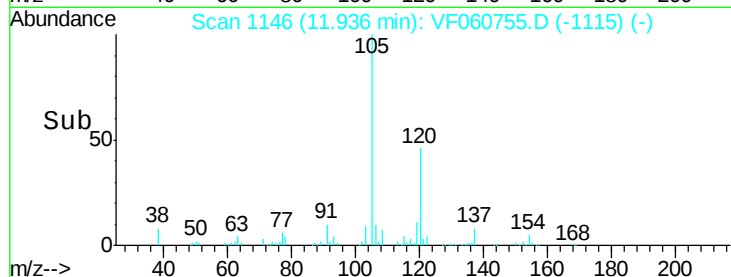
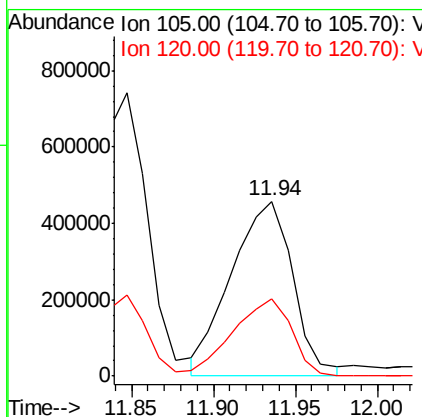
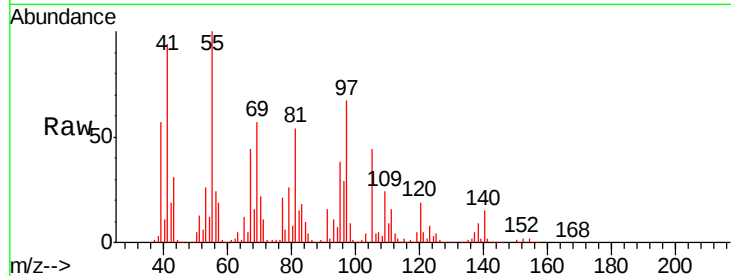
#80
 1,3,5-Trimethylbenzene
 Concen: 587.52 ug/l m
 RT: 11.94 min Scan# 1146
 Delta R.T. 0.10 min
 Lab File: VF060755.D
 Acq: 15 Nov 2018 19:14

Instrument :
 MSVOA_F
 ClientSampleId :
 FDSB-09(10-12)

Tgt Ion:105 Resp: 1208353
 Ion Ratio Lower Upper
 105 100
 120 44.3 25.6 76.8

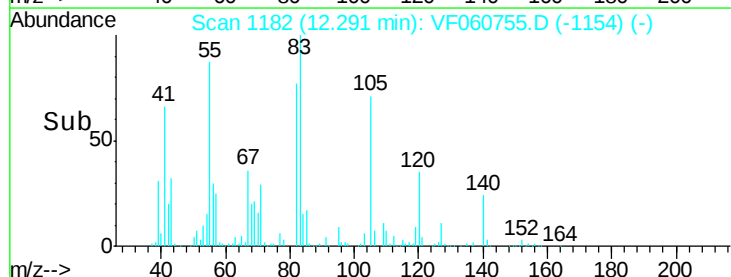
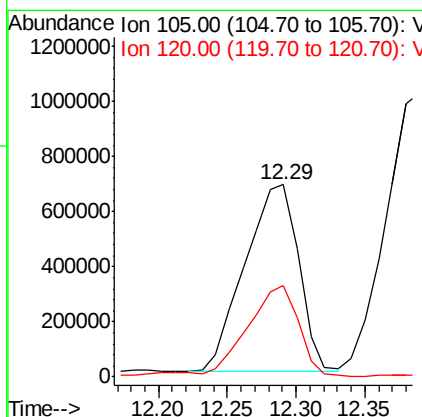
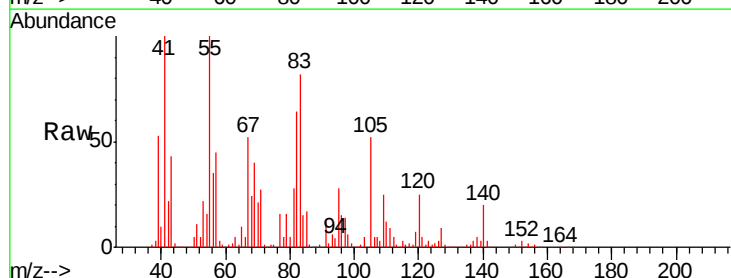
Manual Integrations
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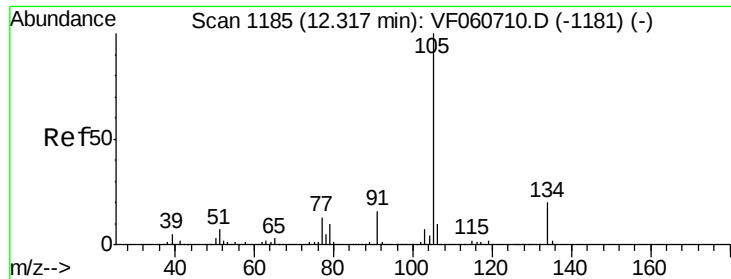
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#84
 1,2,4-Trimethylbenzene
 Concen: 866.74 ug/l
 RT: 12.29 min Scan# 1182
 Delta R.T. 0.07 min
 Lab File: VF060755.D
 Acq: 15 Nov 2018 19:14

Tgt Ion:105 Resp: 1843627
 Ion Ratio Lower Upper
 105 100
 120 47.5 25.5 76.5





#85

sec-Butylbenzene

Concen: 789.89 ug/l m

RT: 12.39 min Scan# 1192

Delta R.T. 0.07 min

Lab File: VF060755.D

Acq: 15 Nov 2018 19:14

Instrument :

MSVOA_F

ClientSampleId :

FDSB-09(10-12)

Tgt Ion:105 Resp: 2339897

Ion Ratio Lower Upper

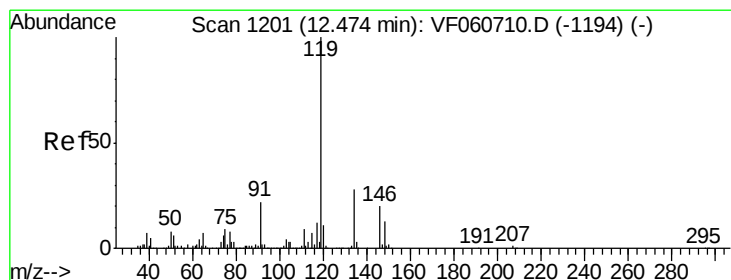
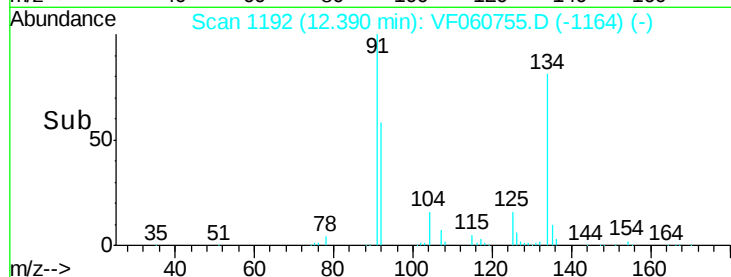
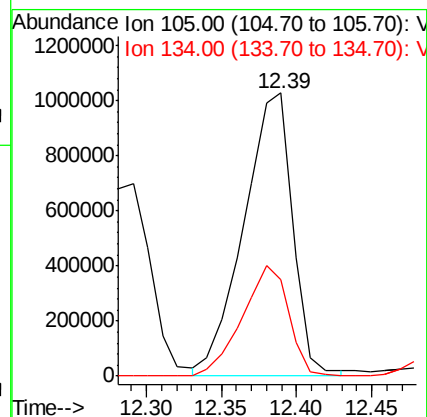
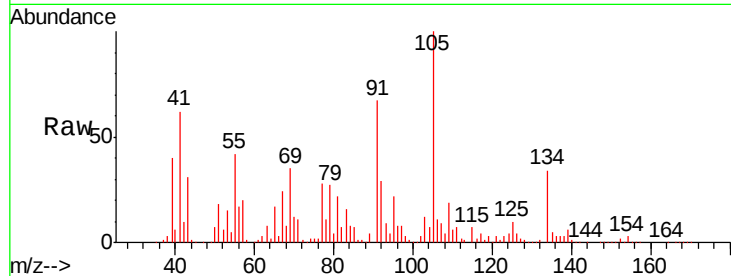
105 100

134 34.1 10.1 30.3#

Manual Integrations
APPROVED

MMDadoda

11/16/2018 1:25:50 PM



#86

p-Isopropyltoluene

Concen: 652.96 ug/l m

RT: 12.52 min Scan# 1205

Delta R.T. 0.04 min

Lab File: VF060755.D

Acq: 15 Nov 2018 19:14

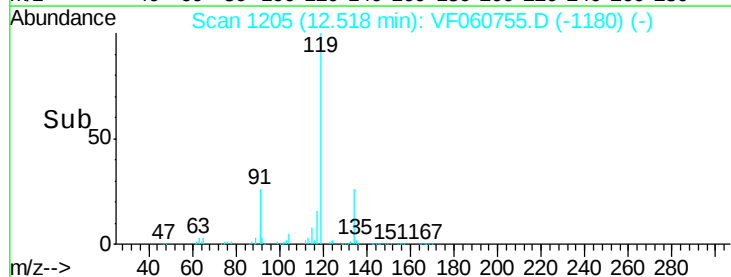
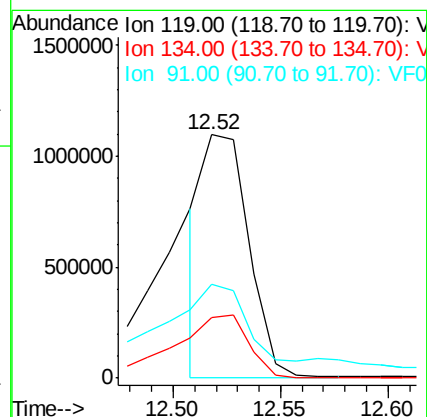
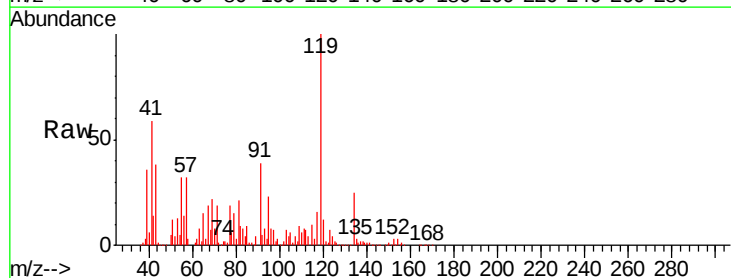
Tgt Ion:119 Resp: 1615476

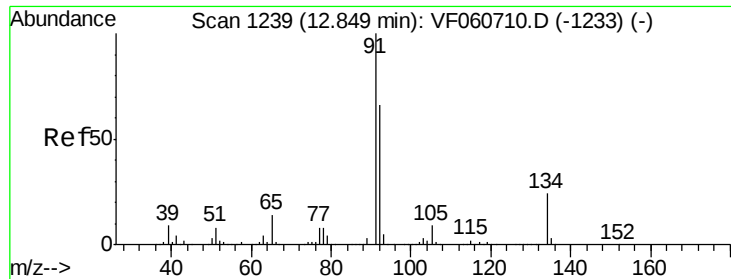
Ion Ratio Lower Upper

119 100

134 25.0 13.9 41.7

91 38.6 11.3 33.9#





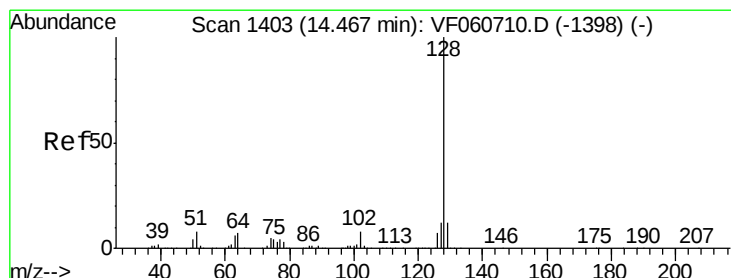
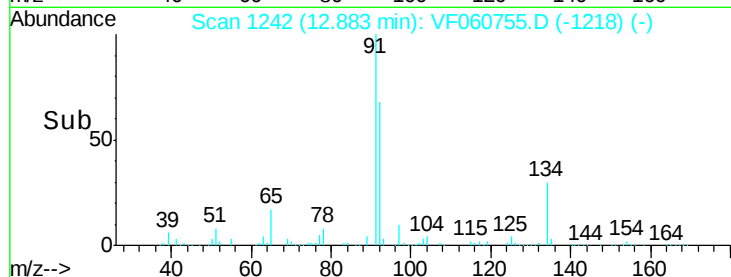
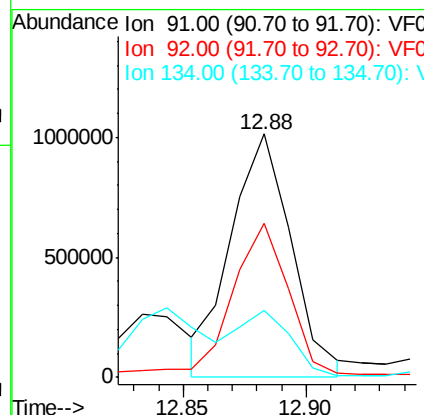
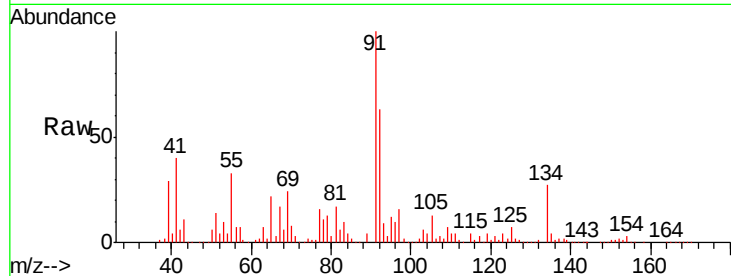
#89
n-Butylbenzene
Concen: 683.54 ug/l m
RT: 12.88 min Scan# 1242
Delta R.T. 0.03 min
Lab File: VF060755.D
Acq: 15 Nov 2018 19:14

Instrument :
MSVOA_F
ClientSampleId :
FDSB-09(10-12)

Tgt Ion: 91 Resp: 1725827
Ion Ratio Lower Upper
91 100
92 63.4 33.1 99.2
134 27.4 11.9 35.9

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:25:50 PM



#95
Naphthalene
Concen: 32.87 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF060755.D
Acq: 15 Nov 2018 19:14

Tgt Ion: 128 Resp: 43552
Ion Ratio Lower Upper
128 100
127 12.4 9.8 14.6
129 12.7 9.3 13.9

