

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF090718\
 Data File : VF060210.D
 Acq On : 7 Sep 2018 15:07
 Operator : VA/AP
 Sample : J4693-02RE
 Misc : 5.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BFB

Quant Time: Sep 07 23:24:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 07 10:44:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	170872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	249256	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	260762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	166901	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	134434	45.04	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.08%		
35) Dibromofluoromethane	4.30	113	101227	41.45	ug/l	0.00
Spiked Amount 50.000			Recovery =	82.90%		
50) Toluene-d8	7.72	98	249834	41.00	ug/l	0.00
Spiked Amount 50.000			Recovery =	82.00%		
62) 4-Bromofluorobenzene	11.51	95	149203	43.39	ug/l	0.00
Spiked Amount 50.000			Recovery =	86.78%		

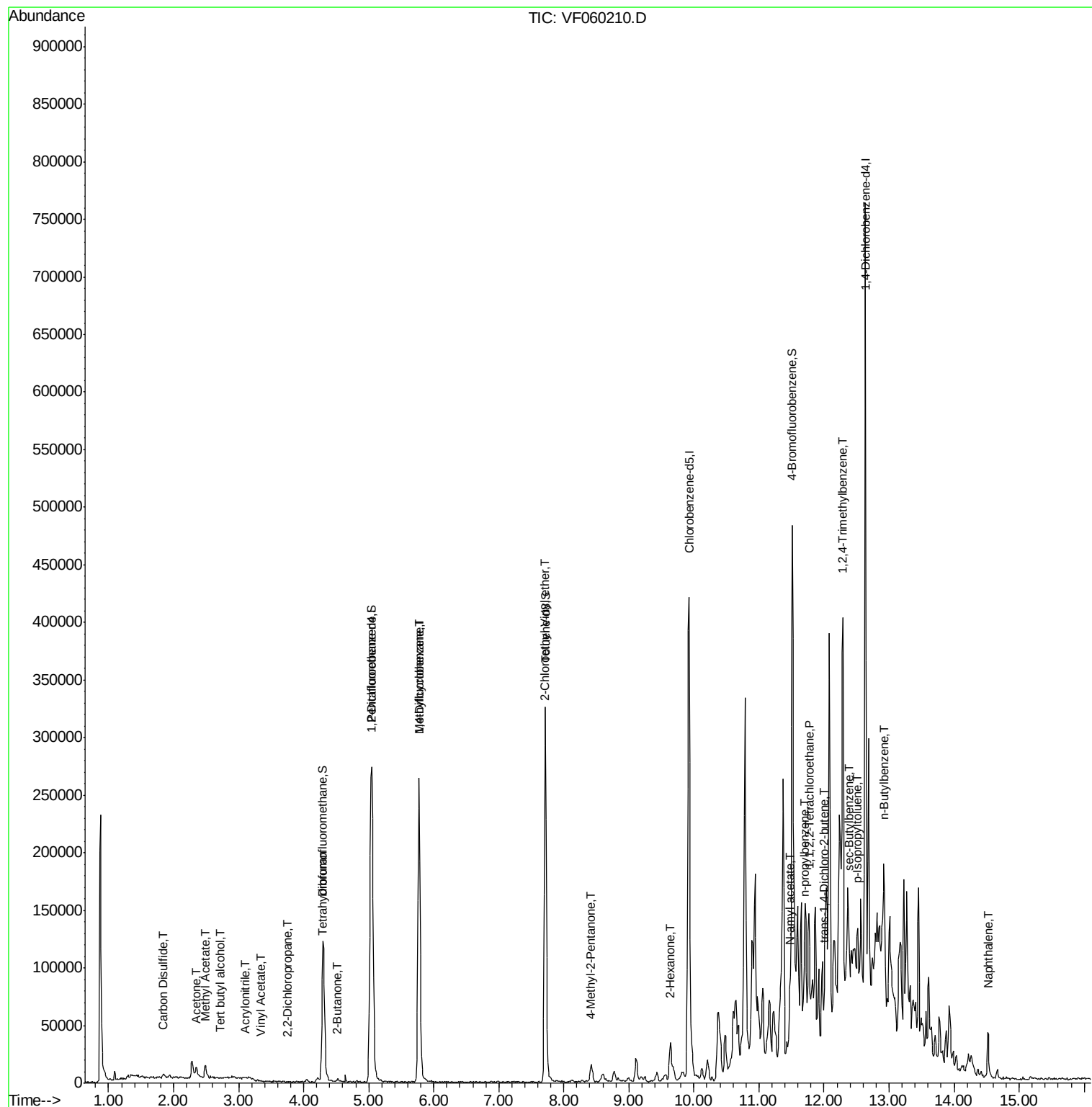
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.71	59	184	13.508	ug/l #	75
13) Acrolein	2.12	56	63	Below Cal	#	1
15) Acrylonitrile	3.10	53	627	2.763	ug/l #	11
16) Acetone	2.35	43	14855	28.494	ug/l #	88
17) Carbon Disulfide	1.84	76	4064	1.135	ug/l #	90
18) Methyl Acetate	2.49	43	4666	4.626	ug/l #	93
20) Methylene Chloride	2.29	84	6867	Below Cal		89
23) Vinyl Acetate	3.35	43	77	22.833	ug/l #	82
25) 2-Butanone	4.52	43	5304	6.322	ug/l	92
26) 2,2-Dichloropropane	3.75	77	62	2.048	ug/l #	64
29) Tetrahydrofuran	4.28	42	599	2.160	ug/l #	50
37) Ethyl Acetate	4.32	43	424	Below Cal	#	17
39) Methylcyclohexane	5.77	83	3379	1.375	ug/l #	41
51) 4-Methyl-2-Pentanone	8.42	43	12436	8.203	ug/l #	69
58) 2-Chloroethyl Vinyl ether	7.70	63	313	1.710	ug/l	100
59) 2-Hexanone	9.64	43	25115	21.074	ug/l	97
74) N-amyl acetate	11.46	43	27389	15.598	ug/l #	85
75) 1,1,2,2-Tetrachloroethane	11.76	83	17499	10.108	ug/l #	37
78) n-propylbenzene	11.69	91	21011	1.523	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.99	75	383	3.391	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.29	105	95881	9.287	ug/l	99
85) sec-Butylbenzene	12.39	105	21254	1.664	ug/l #	79
86) p-Isopropyltoluene	12.51	119	12729	1.122	ug/l	87
89) n-Butylbenzene	12.92	91	15458	1.409	ug/l	95
95) Naphthalene	14.53	128	27302	6.710	ug/l #	95

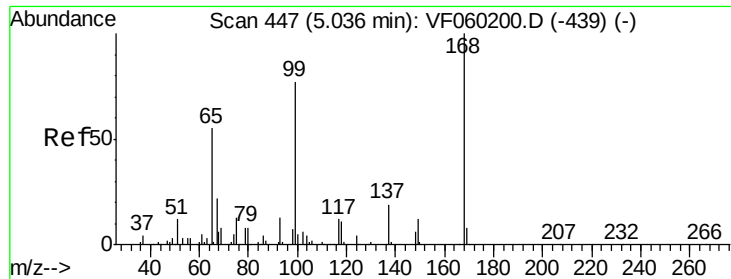
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 07 10:44:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

Instrument :

MSVOA_F

ClientSampleId :

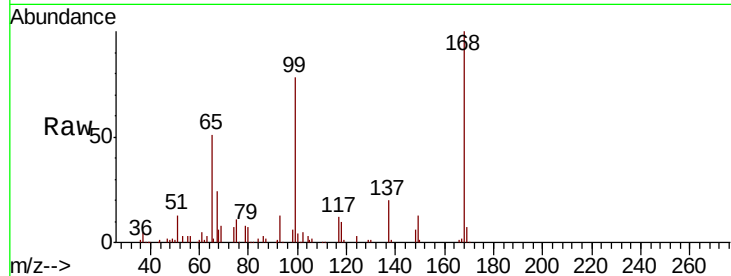
BFB

Tgt Ion:168 Resp: 170872

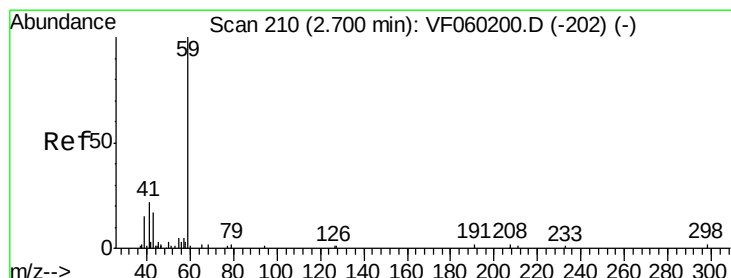
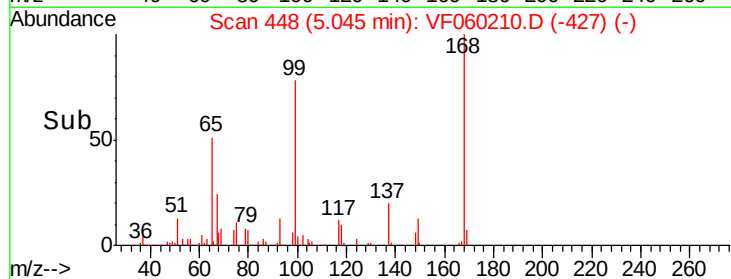
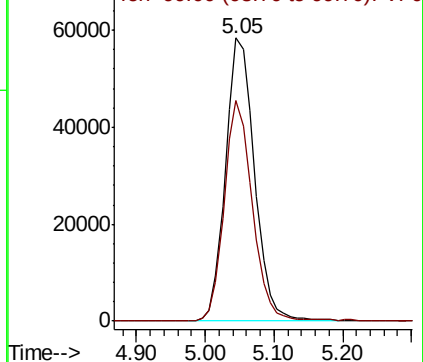
Ion Ratio Lower Upper

168 100

99 77.9 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF060210.D (-427) (-)



#11

Tert butyl alcohol

Concen: 13.508 ug/l

RT: 2.71 min Scan# 211

Delta R.T. 0.01 min

Lab File: VF060210.D

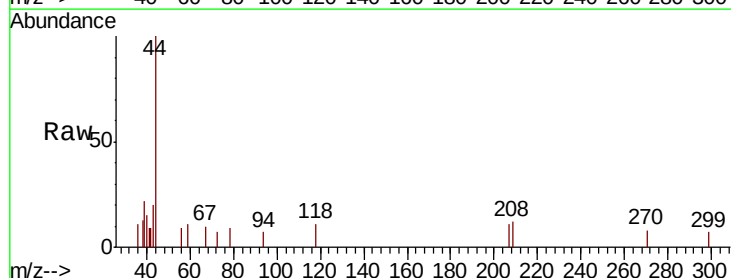
Acq: 7 Sep 2018 15:07

Tgt Ion: 59 Resp: 184

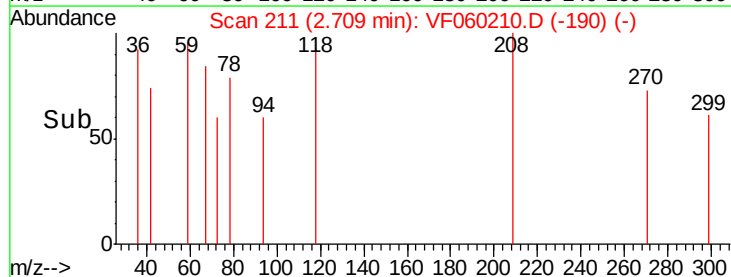
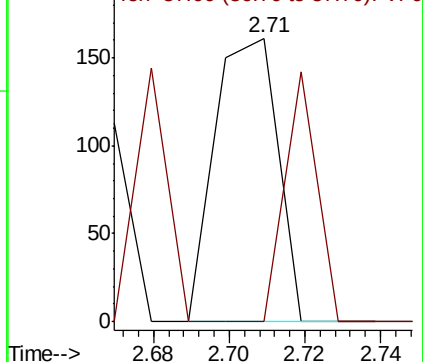
Ion Ratio Lower Upper

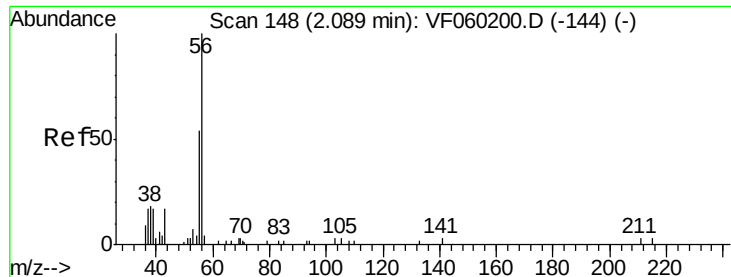
59 100

57 0.0 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF060210.D (-190) (-)





#13

Acrolein

Concen: Below Cal

RT: 2.12 min Scan# 151

Delta R.T. 0.03 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

Instrument :

MSVOA_F

ClientSampled :

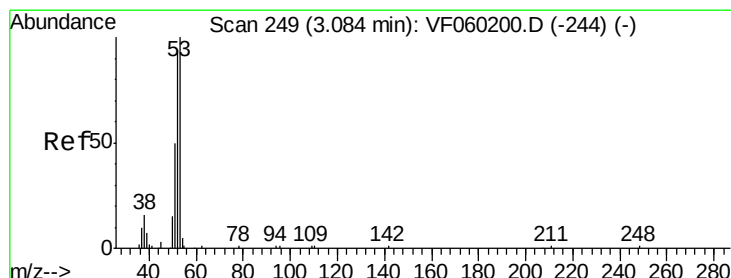
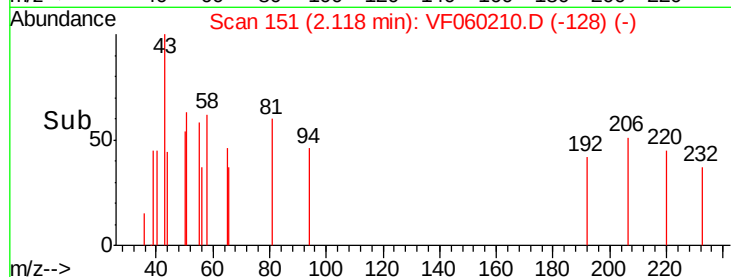
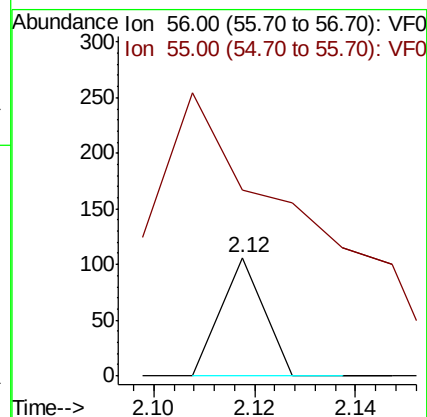
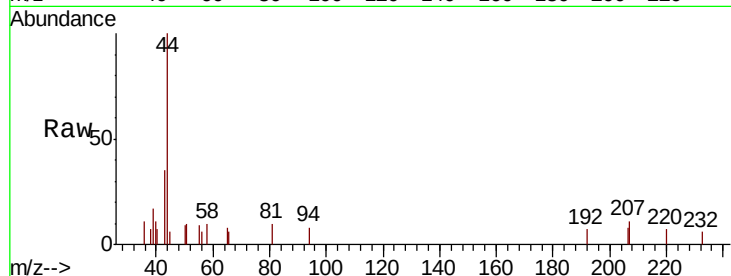
BFB

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 157.5 45.1 67.7#



#15

Acrylonitrile

Concen: 2.763 ug/l

RT: 3.10 min Scan# 251

Delta R.T. 0.02 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

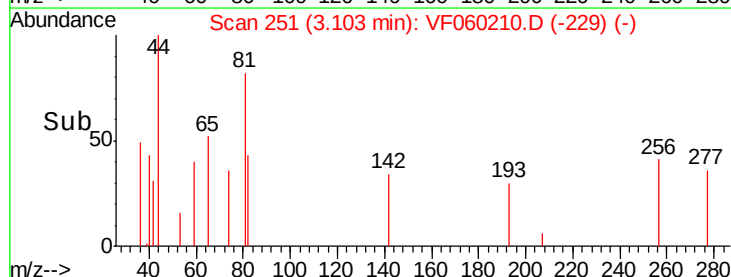
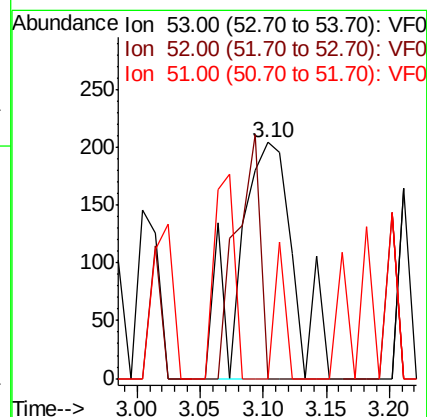
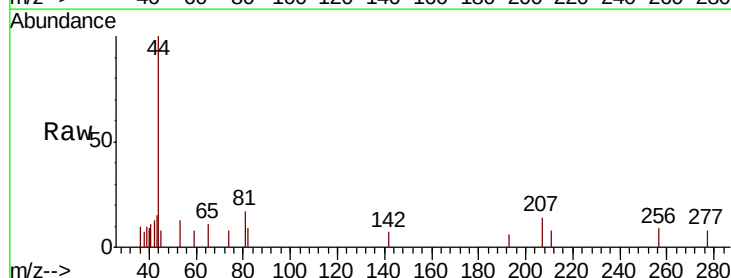
Tgt Ion: 53 Resp: 627

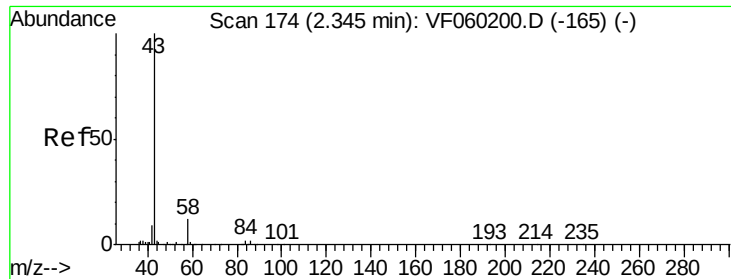
Ion Ratio Lower Upper

53 100

52 0.0 75.0 112.6#

51 0.0 39.9 59.9#

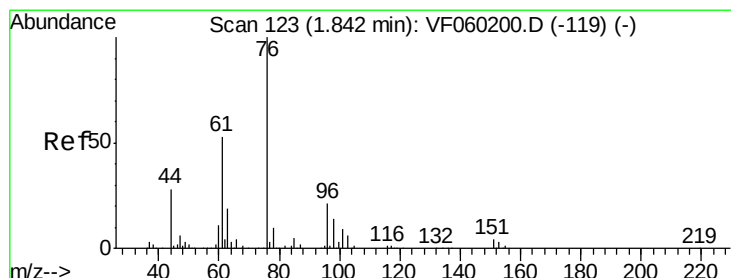
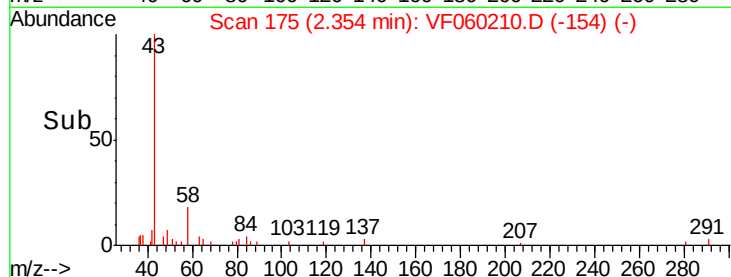
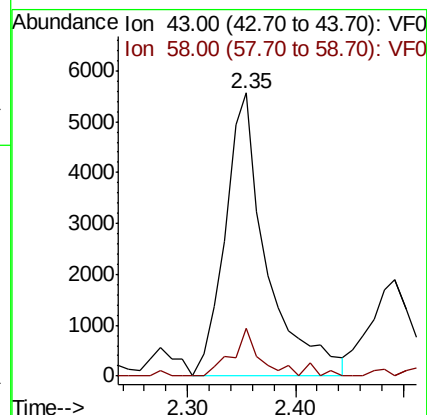
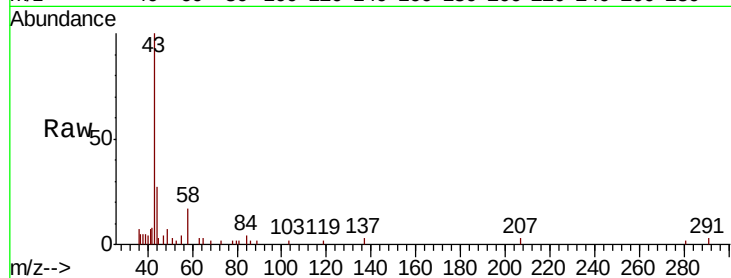




#16
Acetone
Concen: 28.494 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

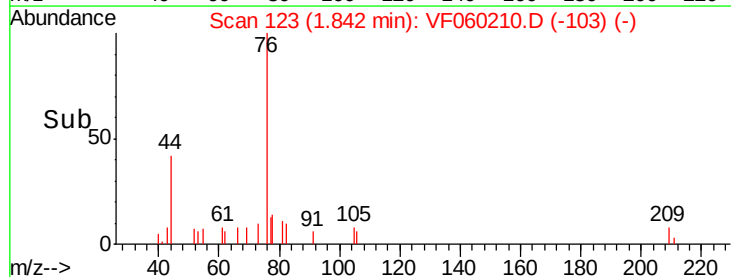
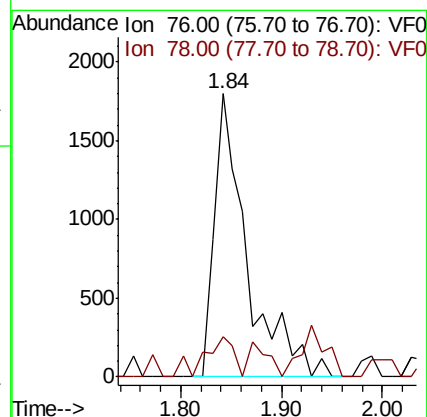
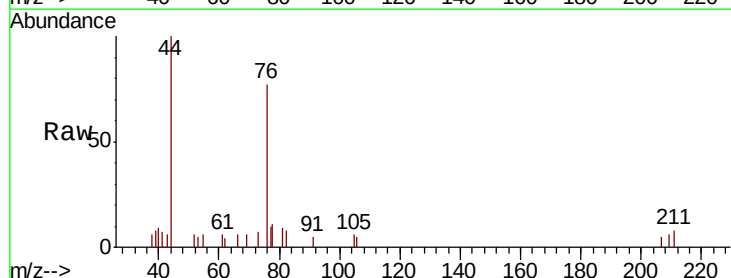
Instrument :
MSVOA_F
ClientSampleId :
BFB

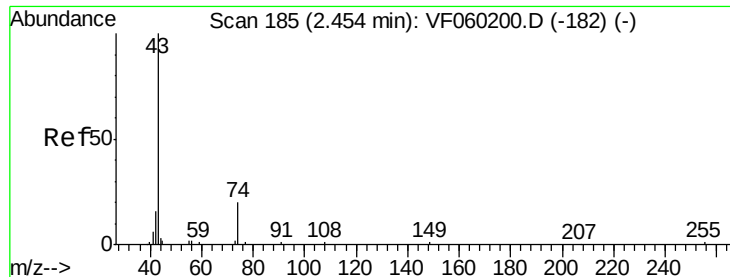
Tgt Ion: 43 Resp: 14855
Ion Ratio Lower Upper
43 100
58 16.9 9.7 14.5#



#17
Carbon Disulfide
Concen: 1.135 ug/l
RT: 1.84 min Scan# 123
Delta R.T. -0.00 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

Tgt Ion: 76 Resp: 4064
Ion Ratio Lower Upper
76 100
78 14.3 8.5 12.7#

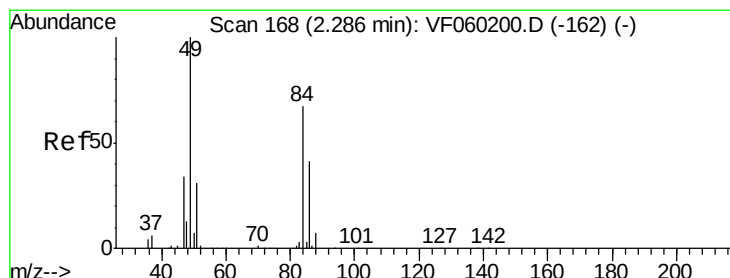
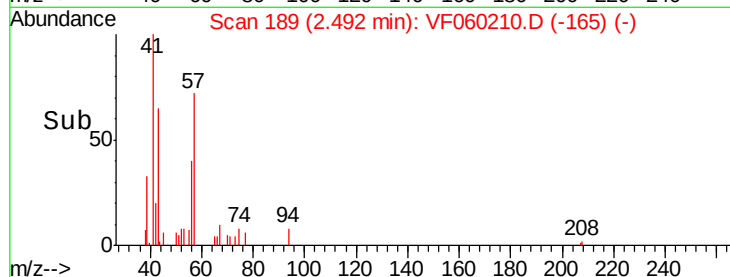
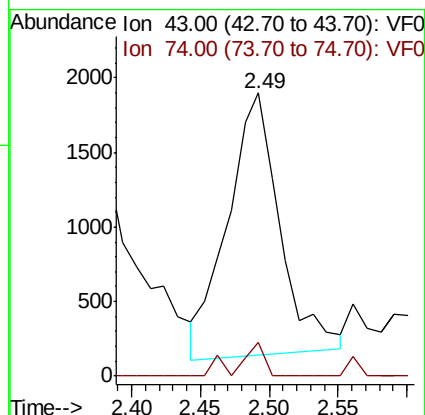
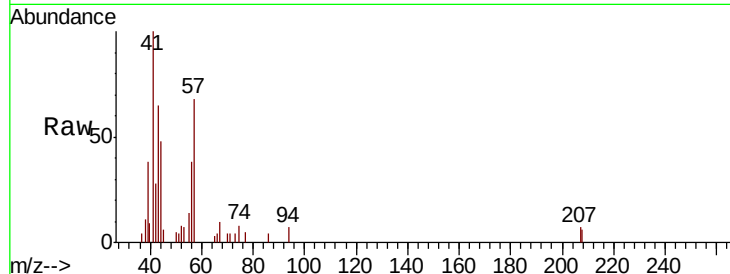




#18
Methyl Acetate
Concen: 4.626 ug/l
RT: 2.49 min Scan# 189
Delta R.T. 0.04 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

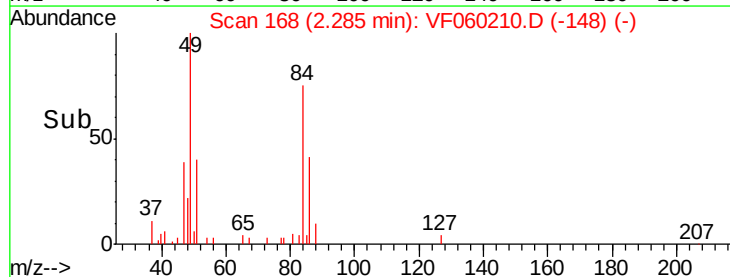
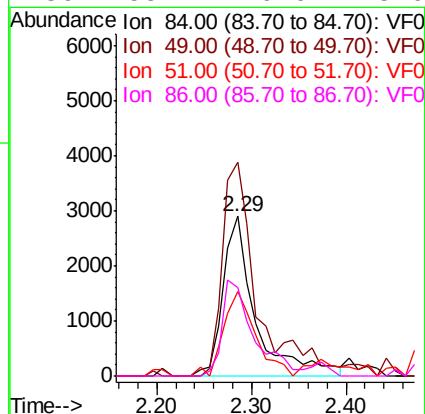
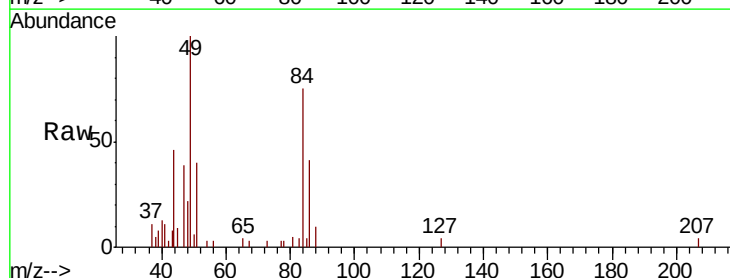
Instrument :
MSVOA_F
ClientSampleId :
BFB

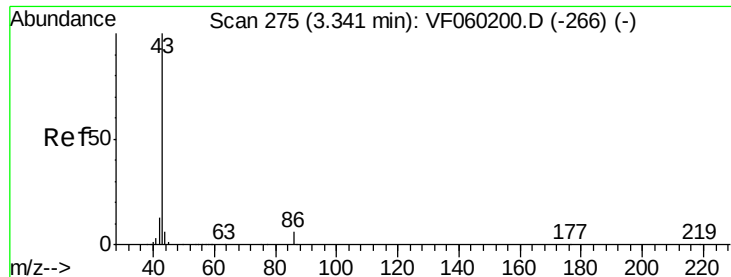
Tgt Ion: 43 Resp: 4666
Ion Ratio Lower Upper
43 100
74 11.8 11.9 17.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.29 min Scan# 168
Delta R.T. -0.00 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

Tgt Ion: 84 Resp: 6867
Ion Ratio Lower Upper
84 100
49 134.0 120.1 180.1
51 53.0 37.0 55.6
86 55.4 49.0 73.6





#23

Vinyl Acetate

Concen: 22.833 ug/l

RT: 3.35 min Scan# 276

Delta R.T. 0.01 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

Instrument :

MSVOA_F

ClientSampleId :

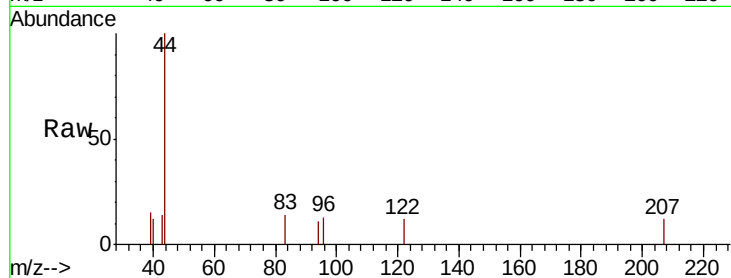
BFB

Tgt Ion: 43 Resp: 77

Ion Ratio Lower Upper

43 100

86 0.0 4.8 7.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.35

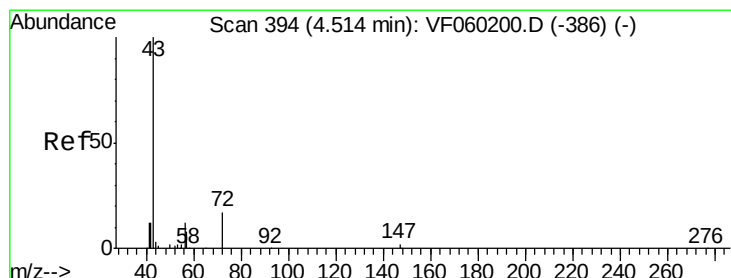
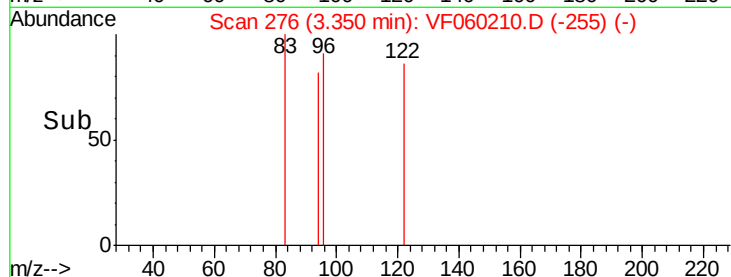
150

100

50

0

Time-->



#25

2-Butanone

Concen: 6.322 ug/l

RT: 4.52 min Scan# 395

Delta R.T. 0.01 min

Lab File: VF060210.D

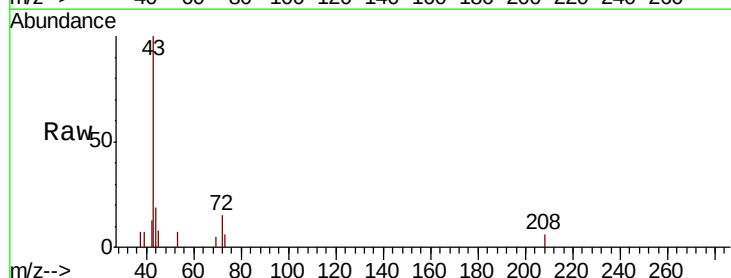
Acq: 7 Sep 2018 15:07

Tgt Ion: 43 Resp: 5304

Ion Ratio Lower Upper

43 100

72 14.9 14.8 22.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.52

2000

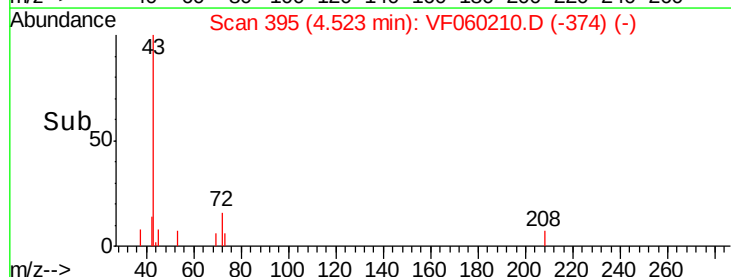
1500

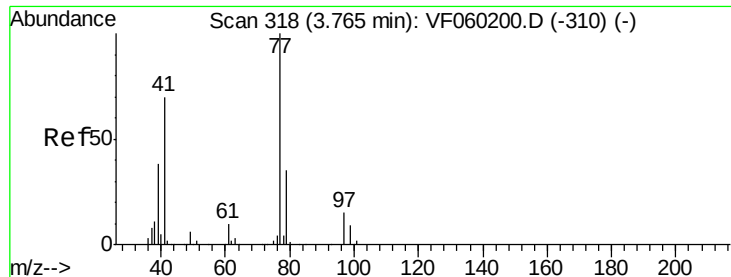
1000

500

0

Time-->





#26

2,2-Dichloropropane

Concen: 2.048 ug/l

RT: 3.75 min Scan# 317

Delta R.T. -0.01 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

Instrument :

MSVOA_F

ClientSampleId :

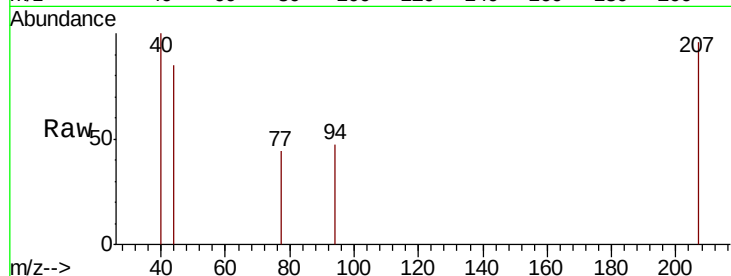
BFB

Tgt Ion: 77 Resp: 62

Ion Ratio Lower Upper

77 100

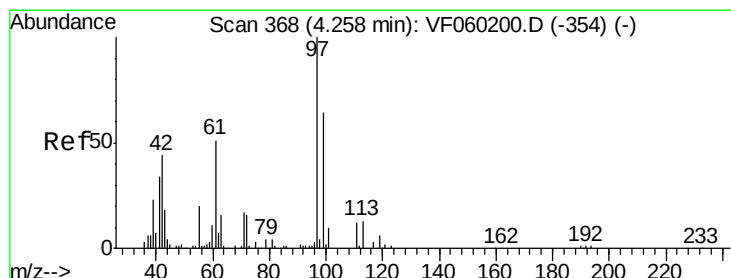
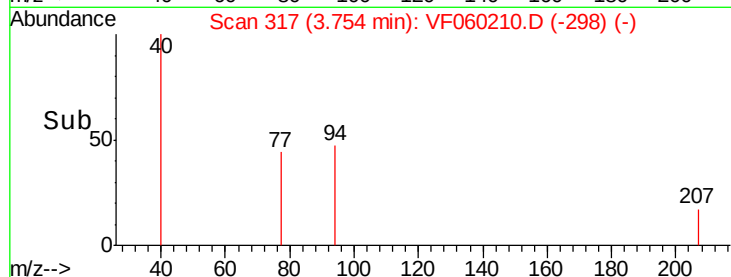
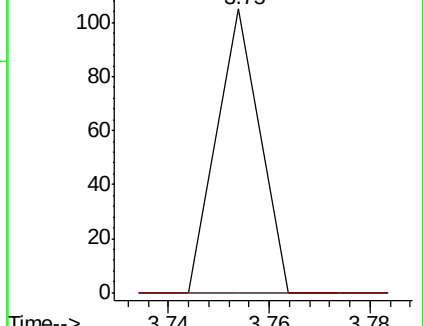
97 0.0 7.5 22.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.75



#29

Tetrahydrofuran

Concen: 2.160 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.02 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

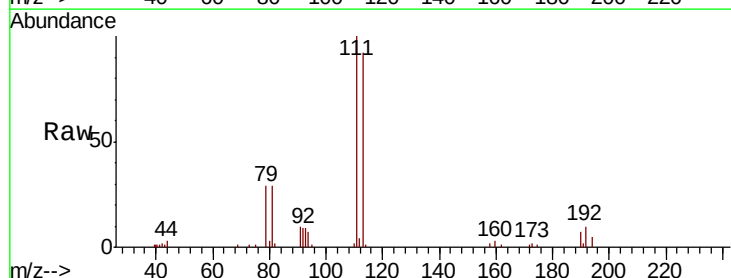
Tgt Ion: 42 Resp: 599

Ion Ratio Lower Upper

42 100

72 11.5 27.4 41.0#

71 0.0 28.5 42.7#

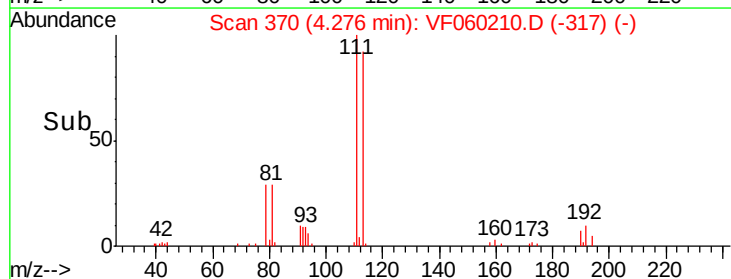
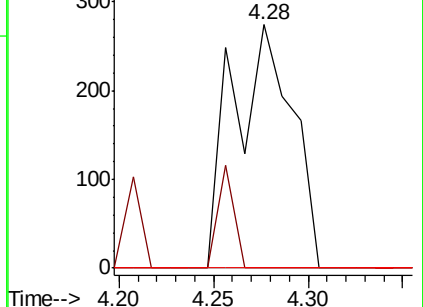


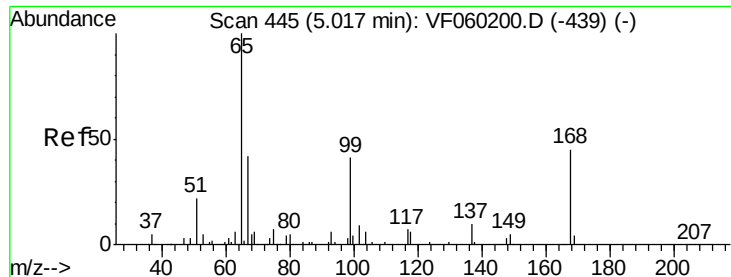
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

4.28





#33

1,2-Dichloroethane-d4

Concen: 45.035 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.01 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

Instrument :

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ClientSampleId :

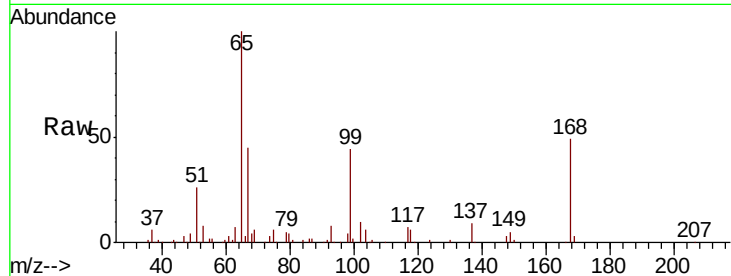
BFB

Tgt Ion: 65 Resp: 134434

Ion Ratio Lower Upper

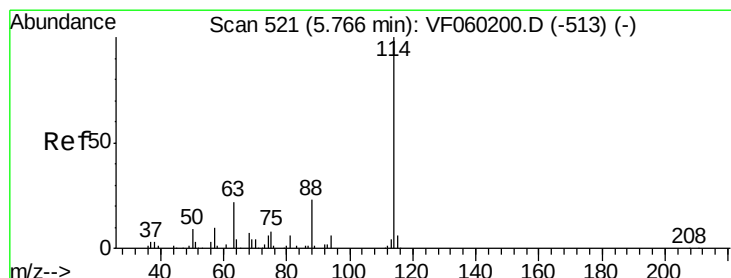
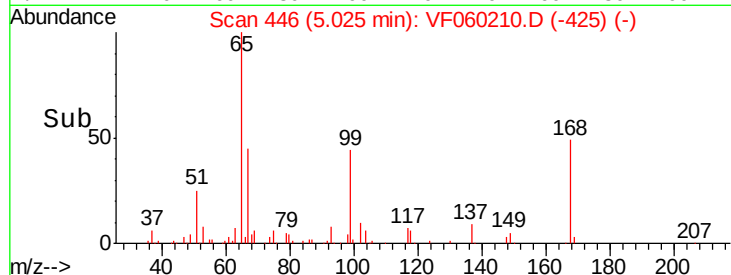
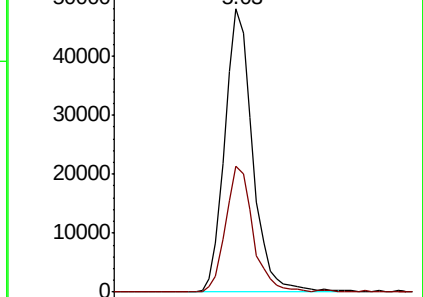
65 100

67 44.7 0.0 87.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 522

Delta R.T. 0.01 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

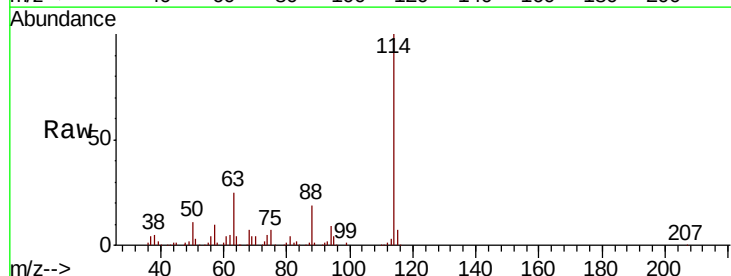
Tgt Ion: 114 Resp: 249256

Ion Ratio Lower Upper

114 100

63 25.0 0.0 45.6

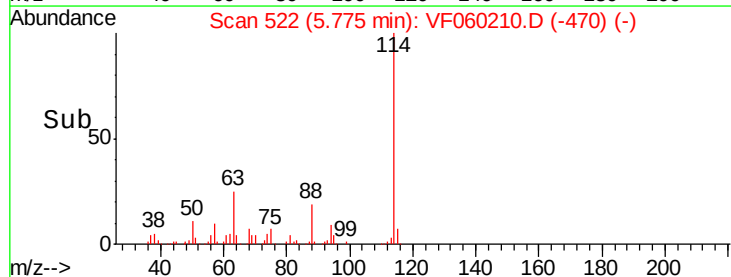
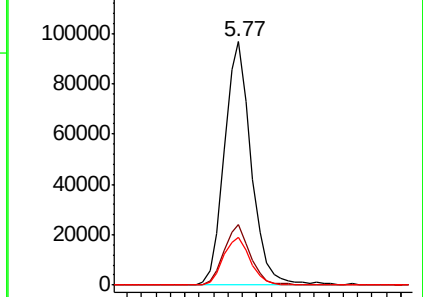
88 19.4 0.0 46.4

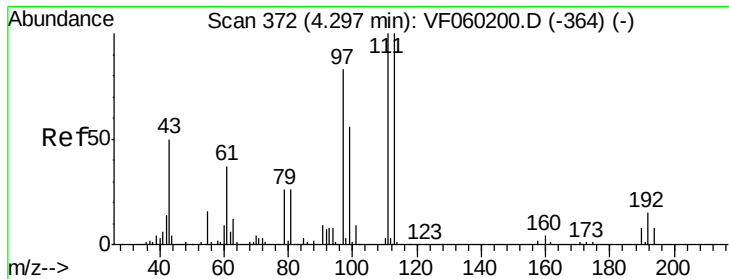


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

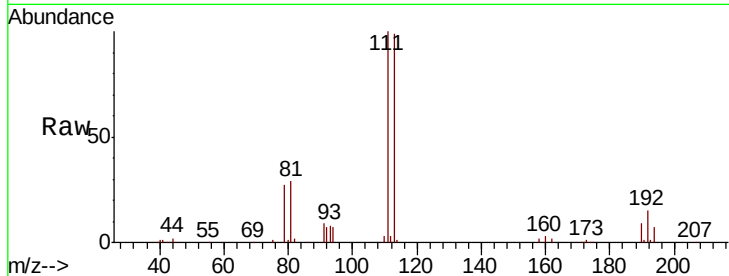




#35
 Dibromofluoromethane
 Concen: 41.452 ug/l
 RT: 4.30 min Scan# 372
 Delta R.T. -0.00 min
 Lab File: VF060210.D
 Acq: 7 Sep 2018 15:07

Instrument :
 MSVOA_F
 ClientSampleId :
 BFB

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	80.2	120.2
192	16.2	11.8	17.8

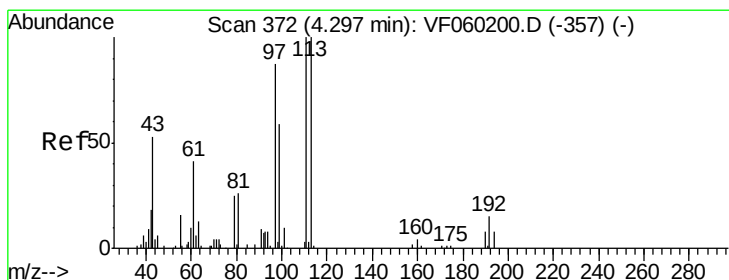
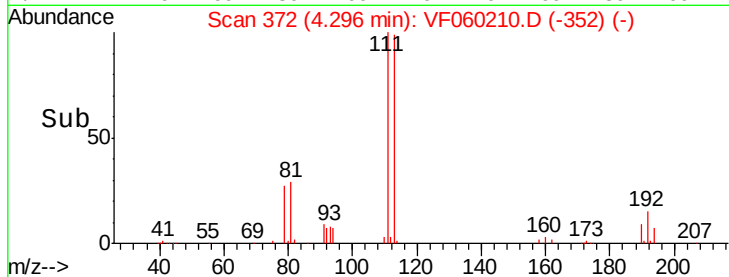
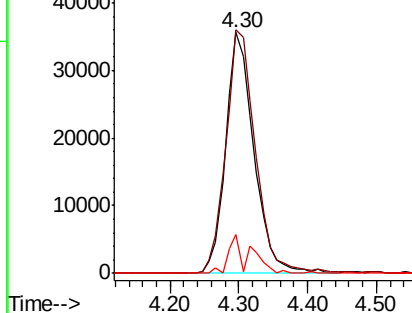


Abundance

Ion 113.00 (112.70 to 113.70): V

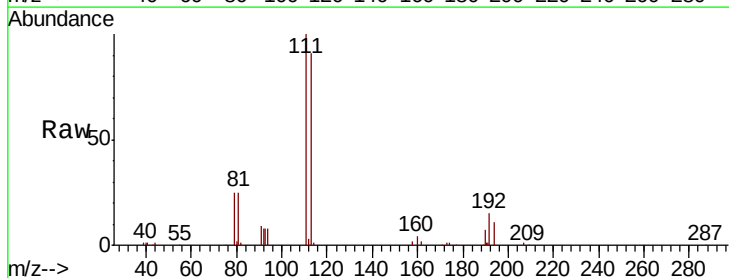
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.32 min Scan# 374
 Delta R.T. 0.02 min
 Lab File: VF060210.D
 Acq: 7 Sep 2018 15:07

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	61.6	92.4#
70	0.0	6.9	10.3#

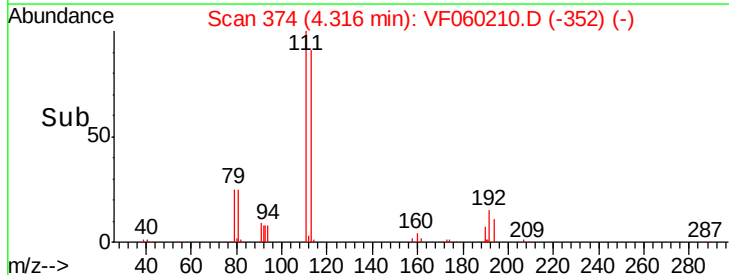
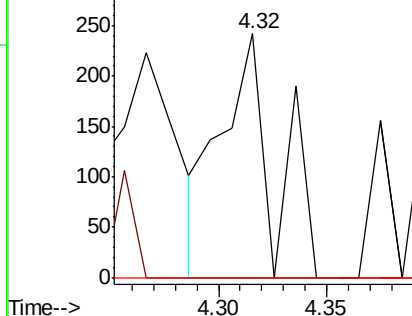


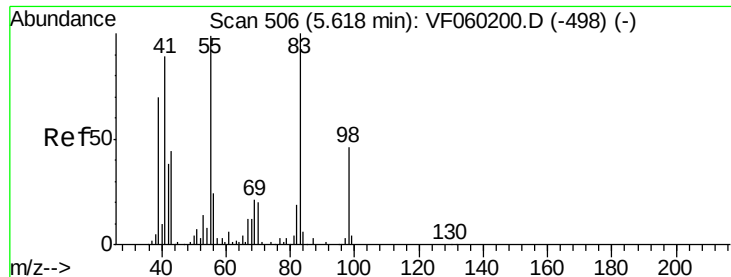
Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

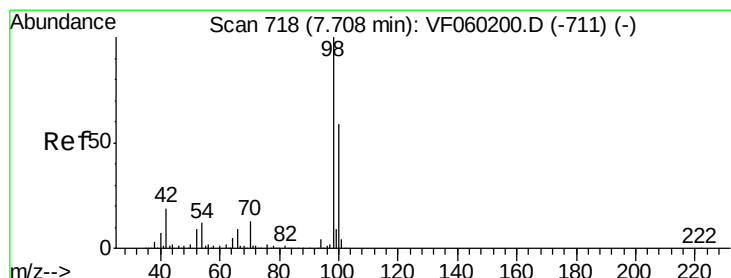
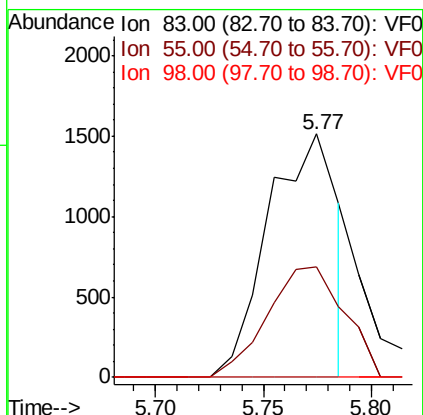
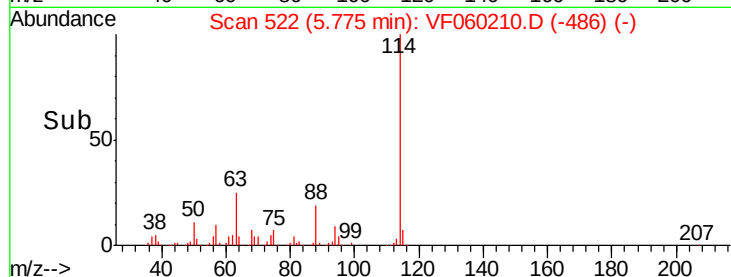
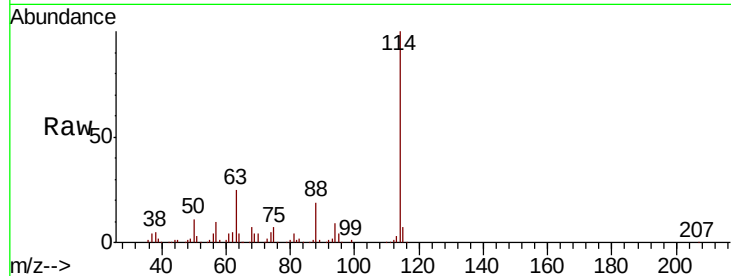




#39
Methylcyclohexane
Concen: 1.375 ug/l
RT: 5.77 min Scan# 522
Delta R.T. 0.16 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

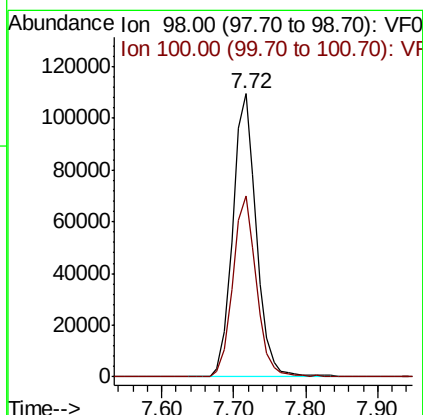
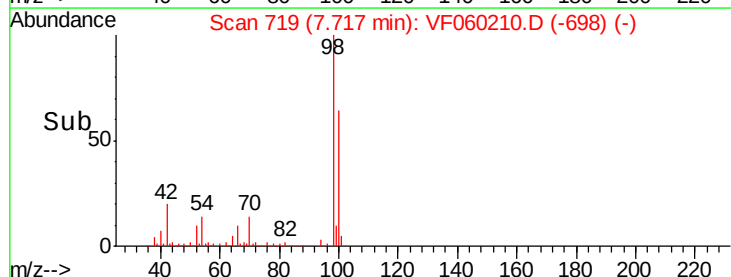
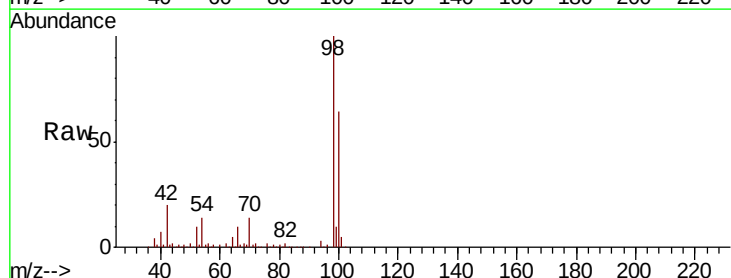
Instrument :
MSVOA_F
ClientSampled :
BFB

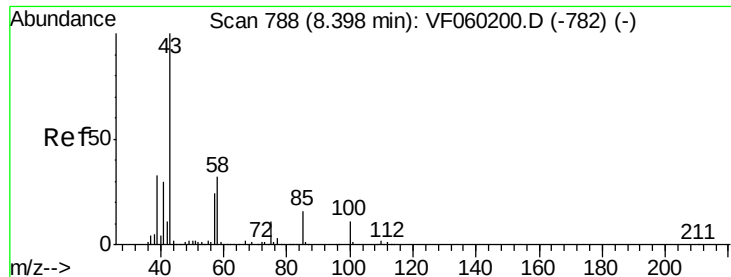
Tgt Ion: 83 Resp: 3379
Ion Ratio Lower Upper
83 100
55 45.6 79.0 118.4#
98 0.0 36.7 55.1#



#50
Toluene-d8
Concen: 40.997 ug/l
RT: 7.72 min Scan# 719
Delta R.T. 0.01 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

Tgt Ion: 98 Resp: 249834
Ion Ratio Lower Upper
98 100
100 63.8 47.4 71.0

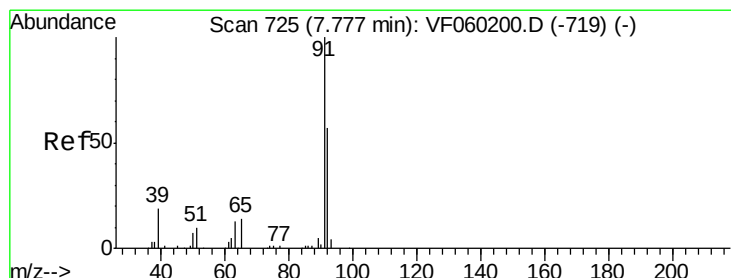
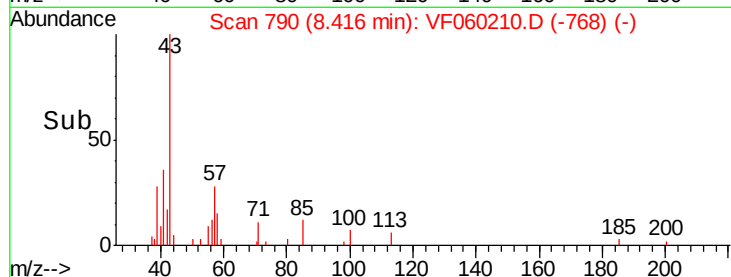
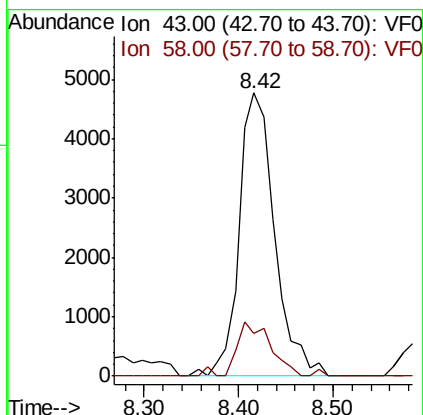
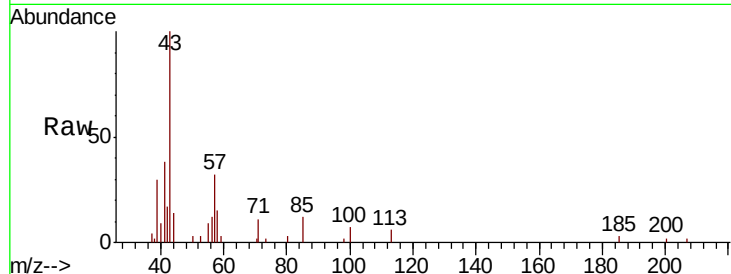




#51
 4-Methyl-2-Pentanone
 Concen: 8.203 ug/l
 RT: 8.42 min Scan# 790
 Delta R.T. 0.02 min
 Lab File: VF060210.D
 Acq: 7 Sep 2018 15:07

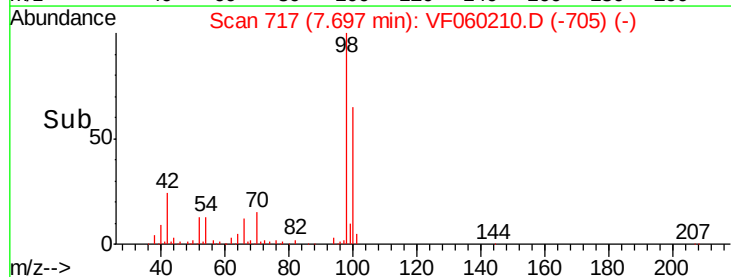
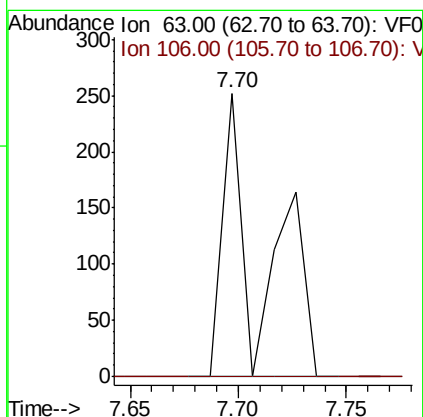
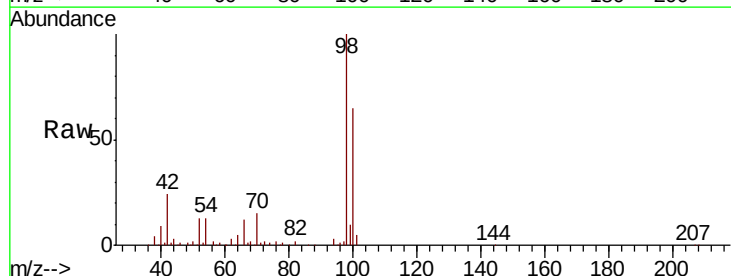
Instrument :
 MSVOA_F
 ClientSampled :
 BFB

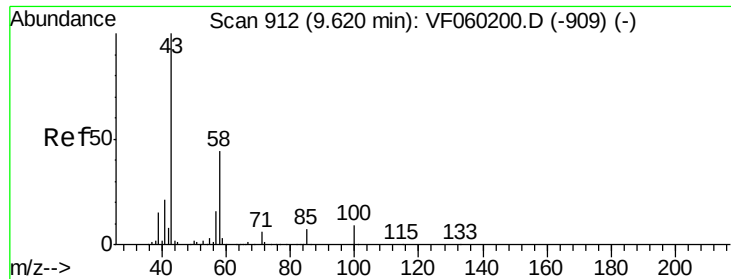
Tgt Ion: 43 Resp: 12436
 Ion Ratio Lower Upper
 43 100
 58 15.0 25.8 38.6#



#58
 2-Chloroethyl Vinyl ether
 Concen: 1.710 ug/l
 RT: 7.70 min Scan# 717
 Delta R.T. -0.08 min
 Lab File: VF060210.D
 Acq: 7 Sep 2018 15:07

Tgt Ion: 63 Resp: 313
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0

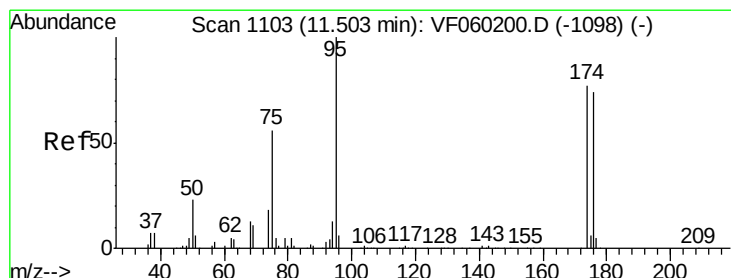
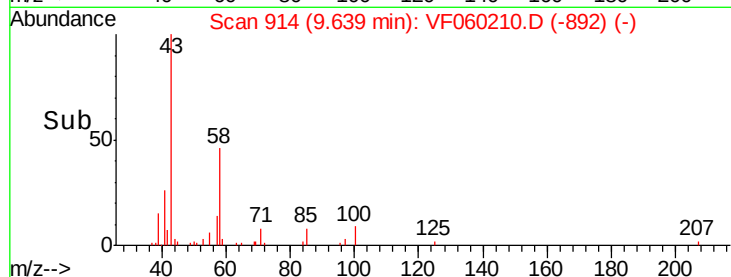
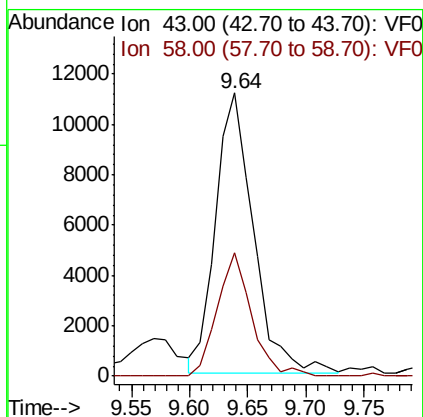
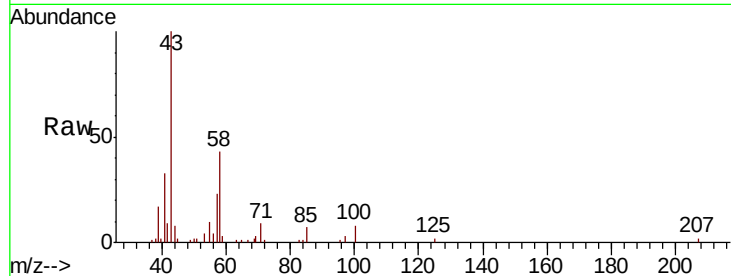




#59
2-Hexanone
Concen: 21.074 ug/l
RT: 9.64 min Scan# 914
Delta R.T. 0.02 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

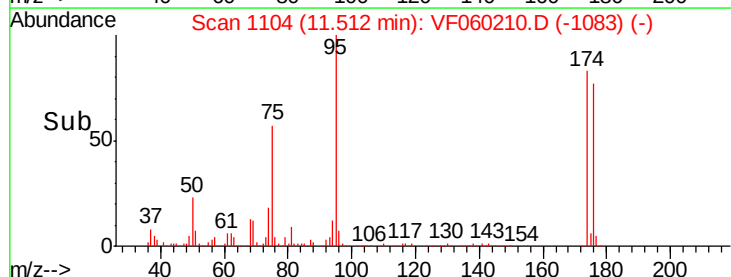
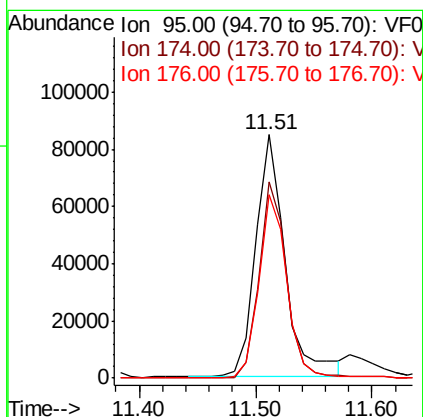
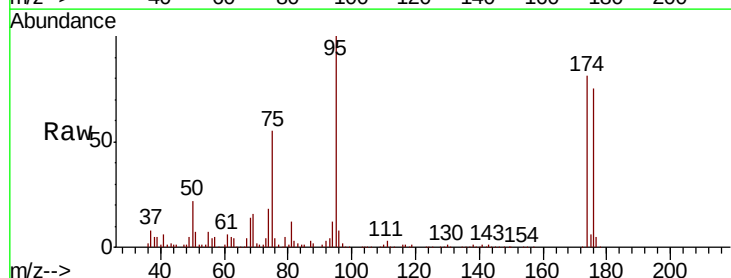
Instrument :
MSVOA_F
ClientSampleId :
BFB

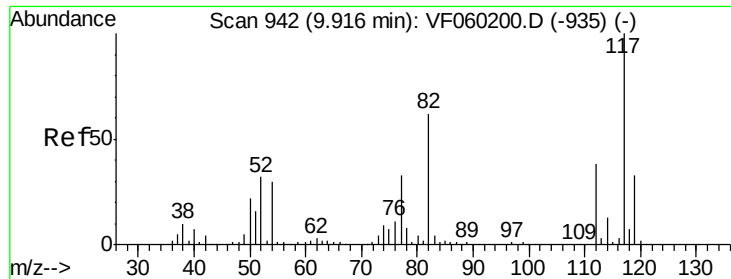
Tgt Ion: 43 Resp: 25115
Ion Ratio Lower Upper
43 100
58 43.4 20.8 62.5



#62
4-Bromofluorobenzene
Concen: 43.395 ug/l
RT: 11.51 min Scan# 1104
Delta R.T. 0.01 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

Tgt Ion: 95 Resp: 149203
Ion Ratio Lower Upper
95 100
174 80.8 0.0 153.2
176 75.4 0.0 147.2

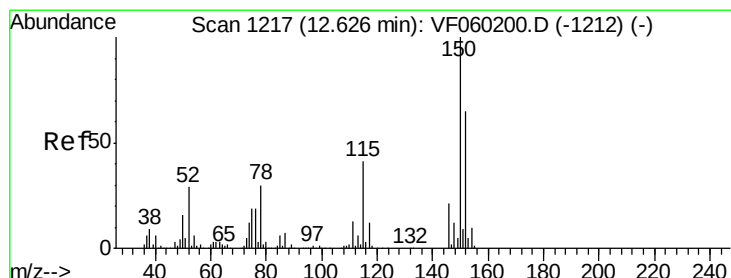
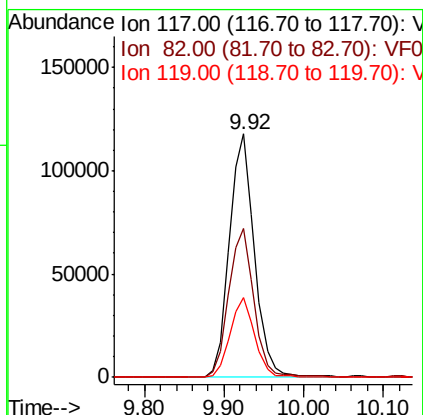
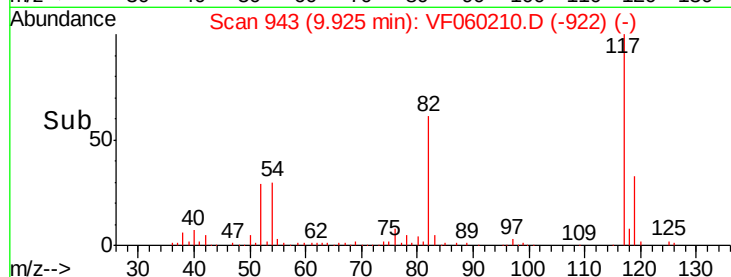
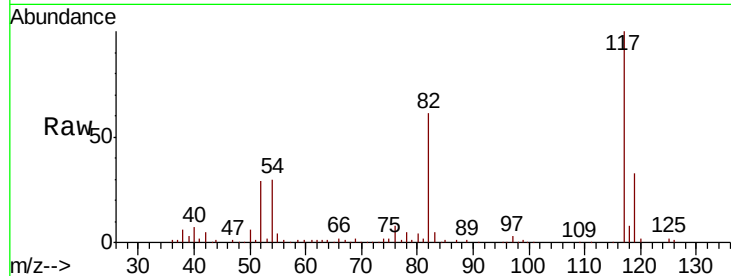




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 943
Delta R.T. 0.01 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

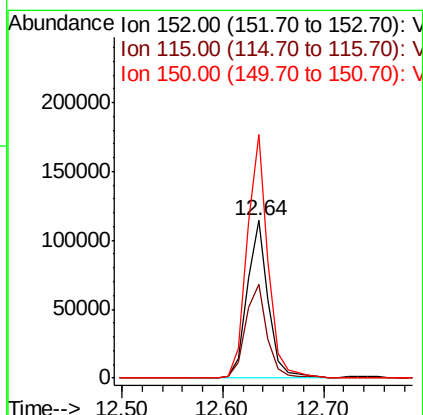
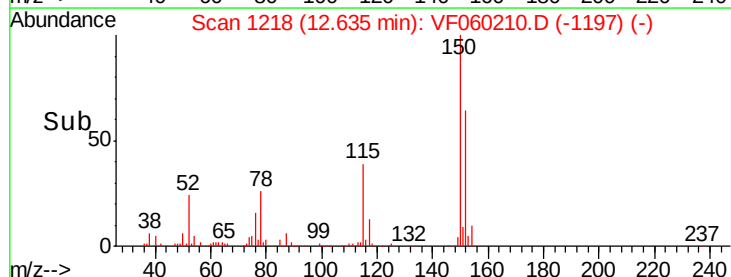
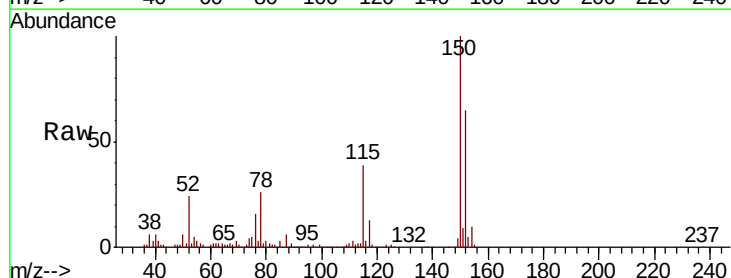
Instrument :
MSVOA_F
ClientSampleId :
BFB

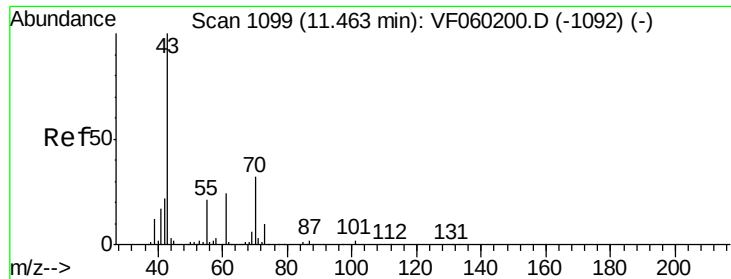
Tgt Ion:117 Resp: 260762
Ion Ratio Lower Upper
117 100
82 61.2 49.3 73.9
119 32.9 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.64 min Scan# 1218
Delta R.T. 0.01 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

Tgt Ion:152 Resp: 166901
Ion Ratio Lower Upper
152 100
115 59.8 31.5 94.5
150 154.7 0.0 310.4





#74

N-amyI acetate

Concen: 15.598 ug/l

RT: 11.46 min Scan# 1099

Delta R.T. -0.00 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

Instrument :

MSVOA_F

ClientSampleId :

BFB

Tgt Ion: 43 Resp: 27389

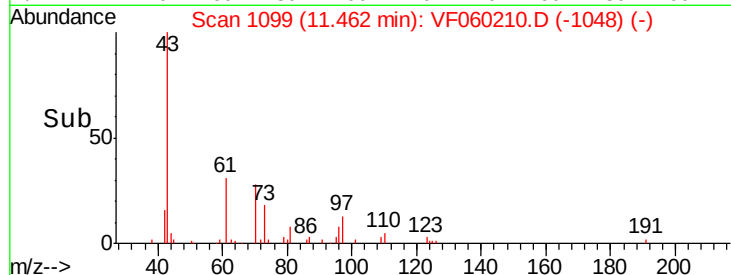
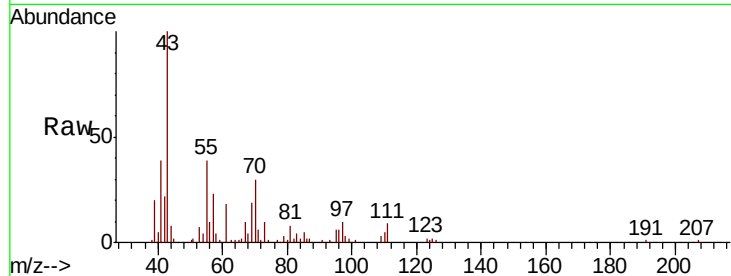
Ion Ratio Lower Upper

43 100

70 30.2 25.8 38.6

55 39.1 16.8 25.2#

61 18.2 18.9 28.3#

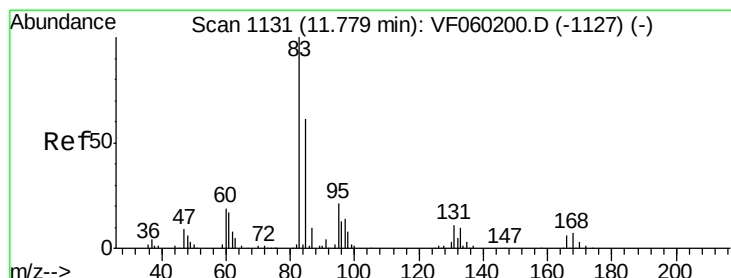
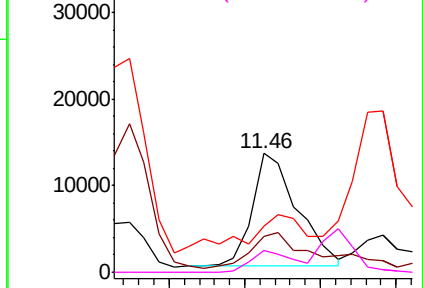


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 10.108 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. -0.02 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

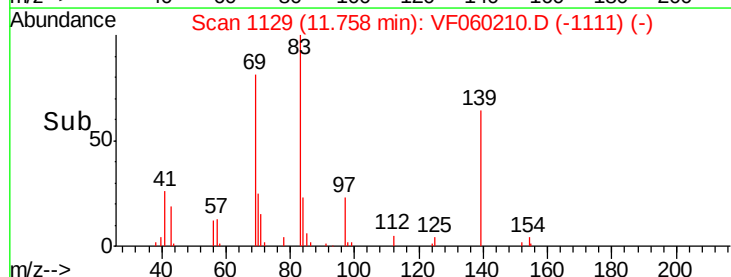
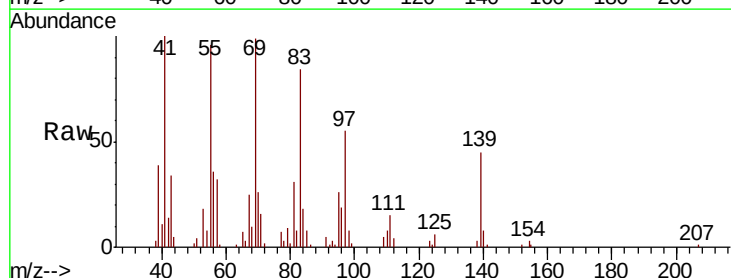
Tgt Ion: 83 Resp: 17499

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

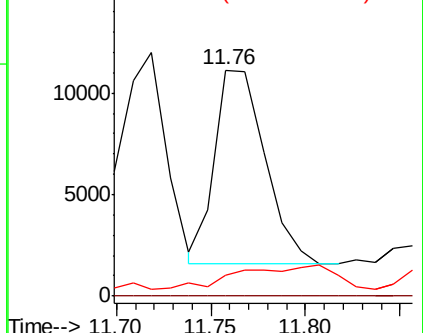
85 9.3 31.1 93.5#

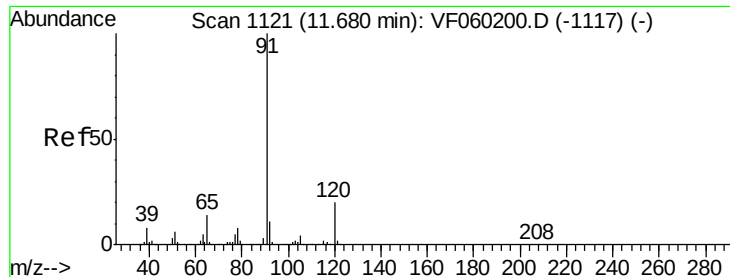


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#78

n-propylbenzene

Concen: 1.523 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

Instrument :

MSVOA_F

ClientSampleId :

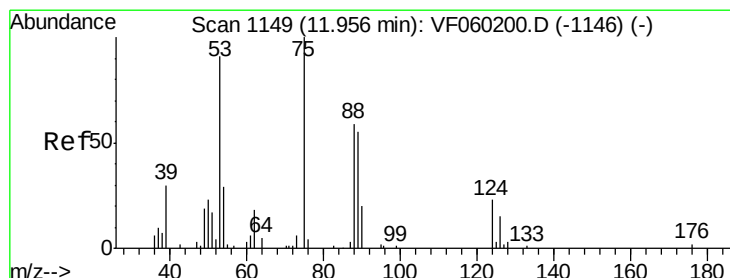
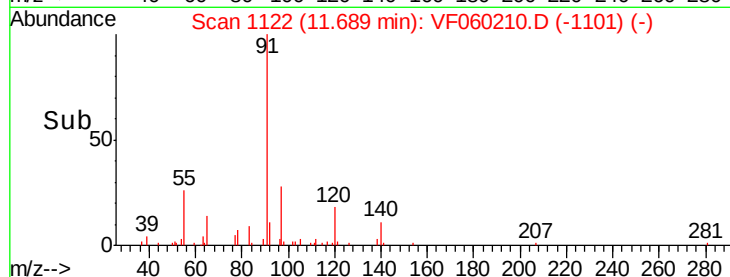
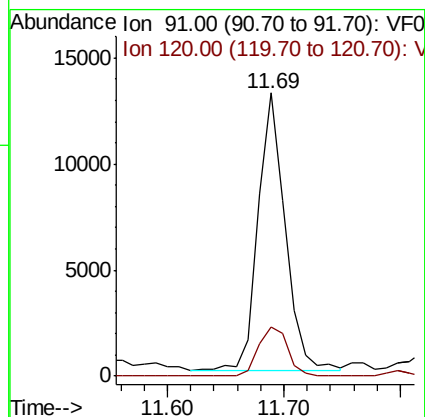
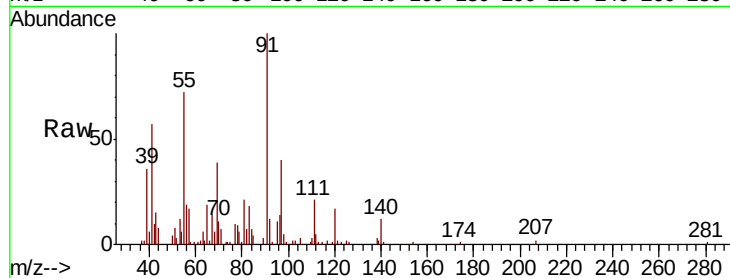
BFB

Tgt Ion: 91 Resp: 21011

Ion Ratio Lower Upper

91 100

120 17.5 9.8 29.4



#81

trans-1,4-Dichloro-2-butene

Concen: 3.391 ug/l

RT: 11.99 min Scan# 1153

Delta R.T. 0.04 min

Lab File: VF060210.D

Acq: 7 Sep 2018 15:07

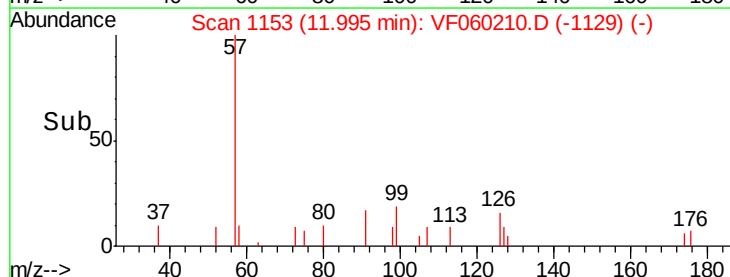
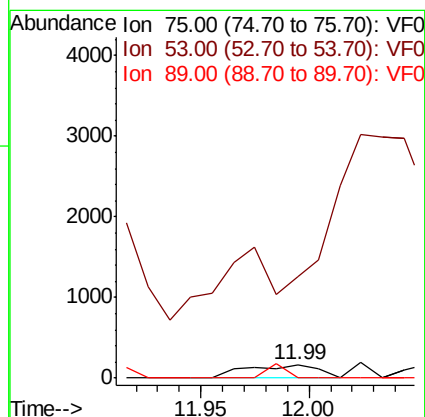
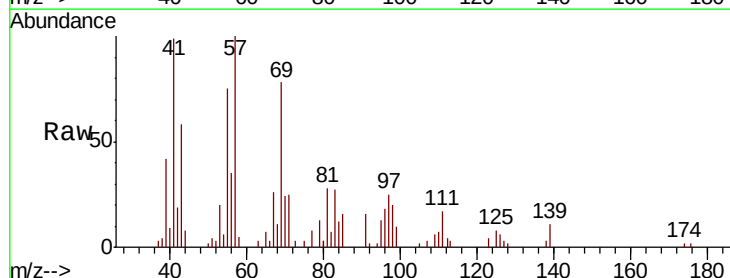
Tgt Ion: 75 Resp: 383

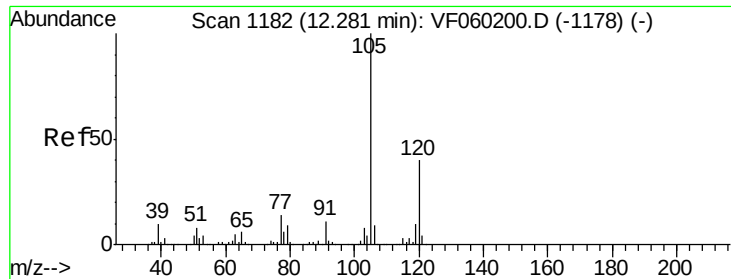
Ion Ratio Lower Upper

75 100

53 771.3 76.5 114.7#

89 0.0 46.5 69.7#

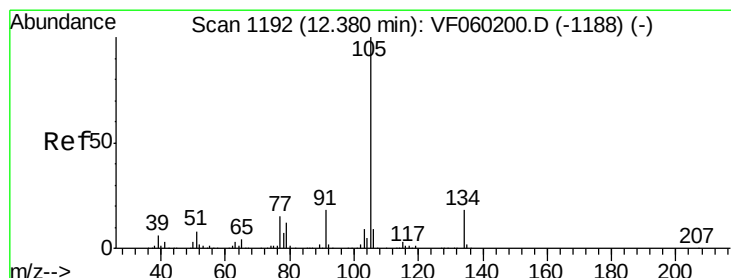
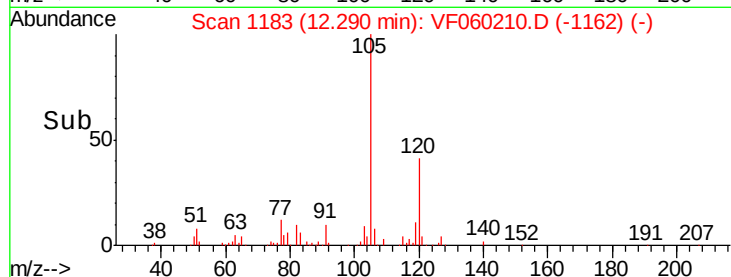
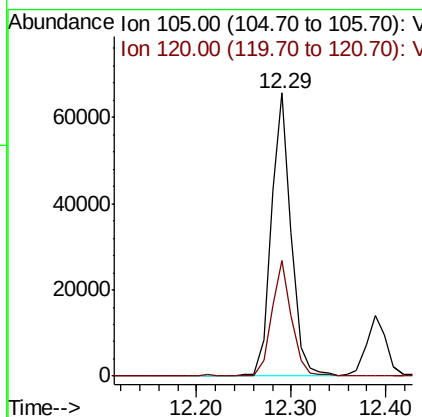
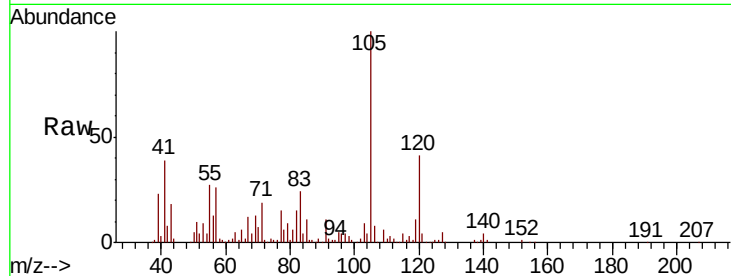




#84
 1,2,4-Trimethylbenzene
 Concen: 9.287 ug/l
 RT: 12.29 min Scan# 1183
 Delta R.T. 0.01 min
 Lab File: VF060210.D
 Acq: 7 Sep 2018 15:07

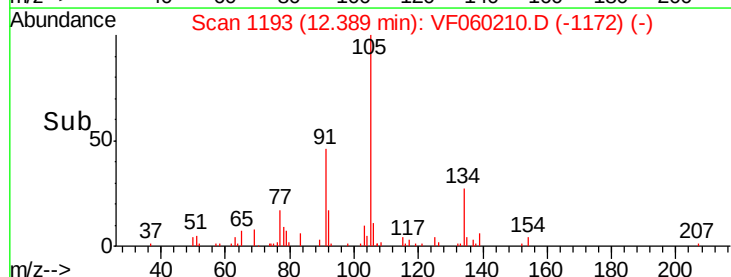
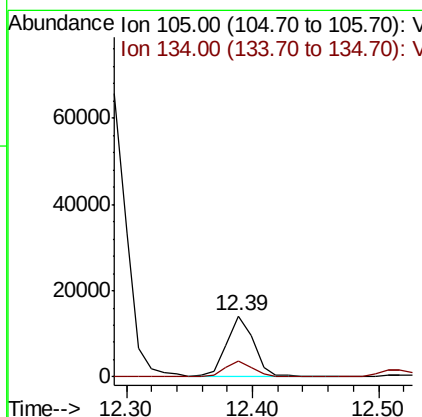
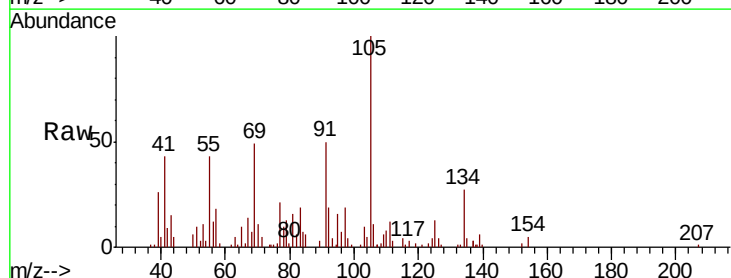
Instrument :
 MSVOA_F
 ClientSampleId :
 BFB

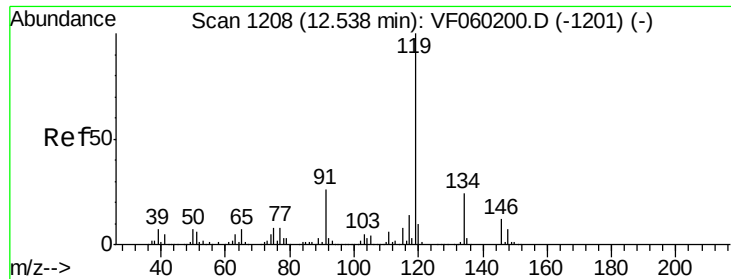
Tgt Ion:105 Resp: 95881
 Ion Ratio Lower Upper
 105 100
 120 41.0 20.2 60.5



#85
 sec-Butylbenzene
 Concen: 1.664 ug/l
 RT: 12.39 min Scan# 1193
 Delta R.T. 0.01 min
 Lab File: VF060210.D
 Acq: 7 Sep 2018 15:07

Tgt Ion:105 Resp: 21254
 Ion Ratio Lower Upper
 105 100
 134 26.8 8.8 26.5#

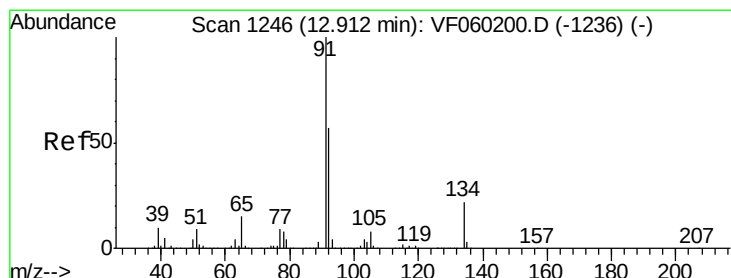
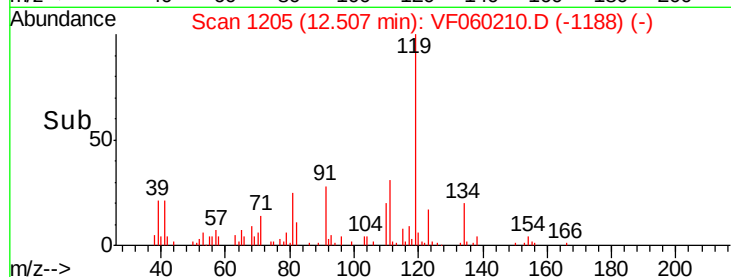
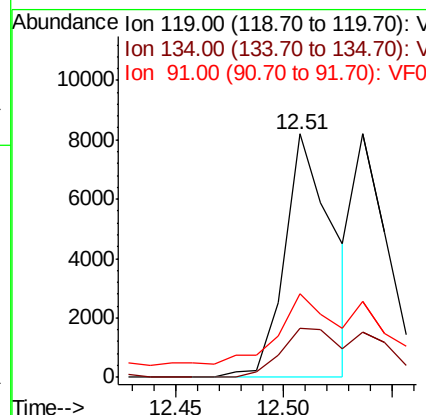
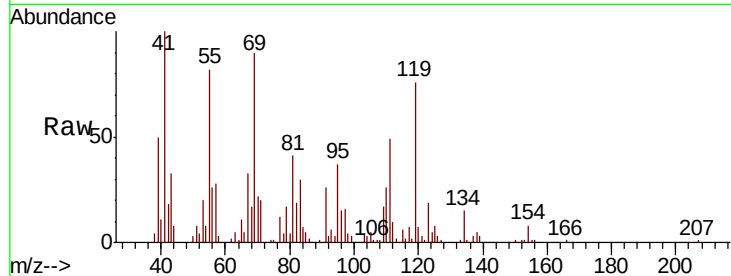




#86
p-Isopropyltoluene
Concen: 1.122 ug/l
RT: 12.51 min Scan# 1205
Delta R.T. -0.03 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

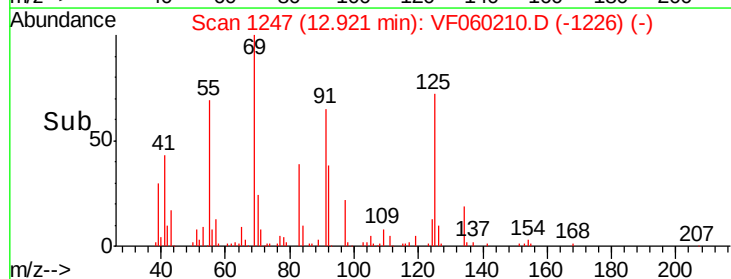
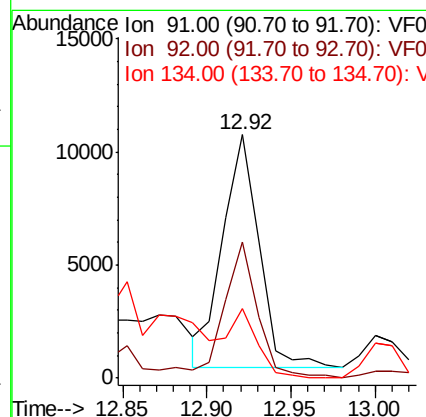
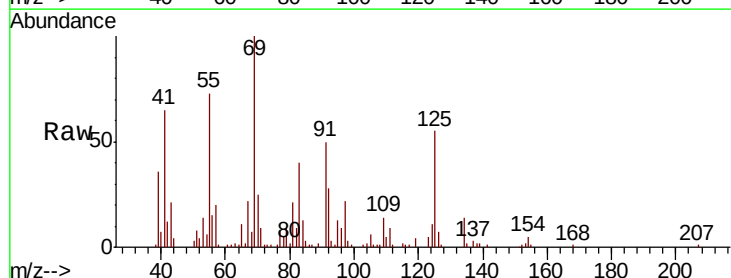
Instrument :
MSVOA_F
ClientSampled :
BFB

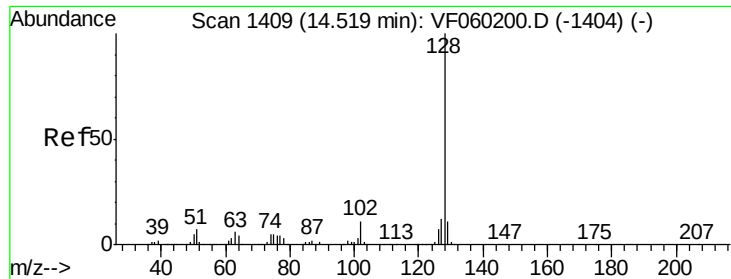
Tgt Ion: 119 Resp: 12729
Ion Ratio Lower Upper
119 100
134 20.1 12.0 36.0
91 34.4 12.9 38.7



#89
n-Butylbenzene
Concen: 1.409 ug/l
RT: 12.92 min Scan# 1247
Delta R.T. 0.01 min
Lab File: VF060210.D
Acq: 7 Sep 2018 15:07

Tgt Ion: 91 Resp: 15458
Ion Ratio Lower Upper
91 100
92 55.7 28.4 85.3
134 28.3 11.1 33.3





#95
 Naphthalene
 Concen: 6.710 ug/l
 RT: 14.53 min Scan# 1410
 Delta R.T. 0.01 min
 Lab File: VF060210.D
 Acq: 7 Sep 2018 15:07

Instrument :
 MSVOA_F
 ClientSampleId :
 BFB

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	9.9	14.9
129	7.9	8.9	13.3#

