

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082318\
 Data File : VF060052.D
 Acq On : 23 Aug 2018 14:46
 Operator : VA/AP
 Sample : J4573-11RE
 Misc : 3.51g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 23 15:22:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	150122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	217379	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	163746	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	45835	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	106484	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
35) Dibromofluoromethane	4.30	113	100836	59.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.14%	
50) Toluene-d8	7.72	98	201197	41.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.00%	
62) 4-Bromofluorobenzene	11.51	95	65226	25.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	50.86%	

Target Compounds

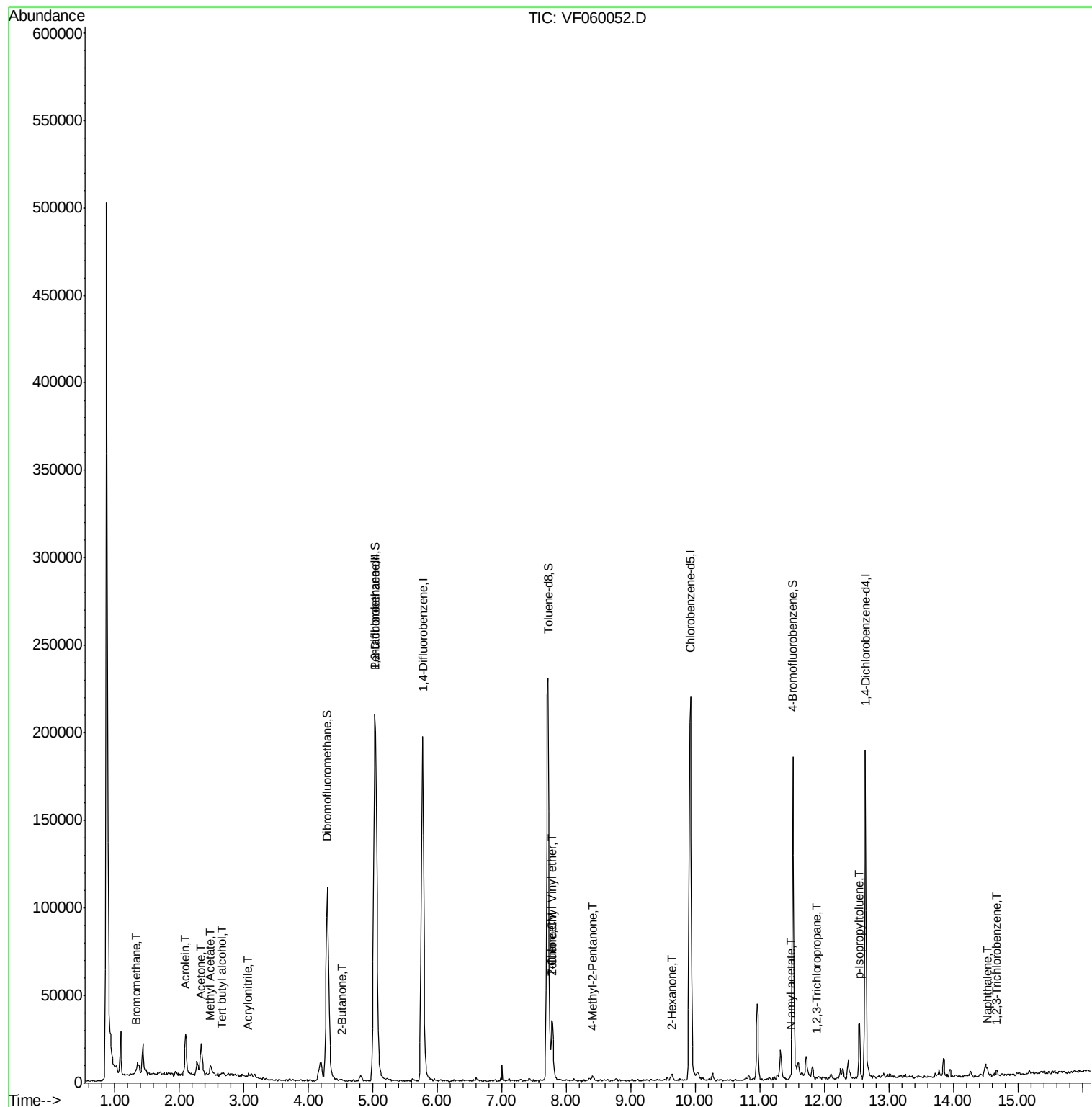
					Qvalue	
3) Chloromethane	1.08	50	1743	Below Cal	#	71
5) Bromomethane	1.32	94	1675	1.796	ug/l	88
11) Tert butyl alcohol	2.68	59	735	6.724	ug/l #	80
13) Acrolein	2.09	56	373	31.321	ug/l #	1
15) Acrylonitrile	3.05	53	260	1.205	ug/l #	32
16) Acetone	2.33	43	27604	51.119	ug/l	96
18) Methyl Acetate	2.48	43	4659	1.025	ug/l #	60
20) Methylene Chloride	2.27	84	2447	Below Cal	#	70
25) 2-Butanone	4.53	43	1692	2.412	ug/l #	58
51) 4-Methyl-2-Pentanone	8.41	43	2744	2.066	ug/l #	87
52) Toluene	7.78	92	17014	1.130	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.78	63	2865	24.765	ug/l	100
59) 2-Hexanone	9.65	43	3463	3.222	ug/l	97
68) m/p-Xylenes	10.28	106	1092	Below Cal	#	69
74) N-amyl acetate	11.47	43	1087	1.268	ug/l #	66
76) 1,2,3-Trichloropropane	11.89	75	487	1.042	ug/l #	40
86) p-Isopropyltoluene	12.55	119	18094	6.682	ug/l	95
95) Naphthalene	14.53	128	3199	4.077	ug/l #	90
96) 1,2,3-Trichlorobenzene	14.68	180	1073	1.145	ug/l	72

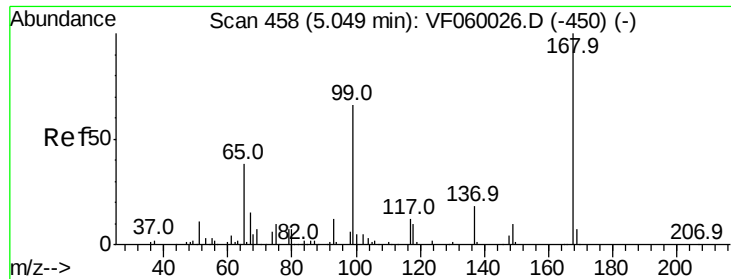
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

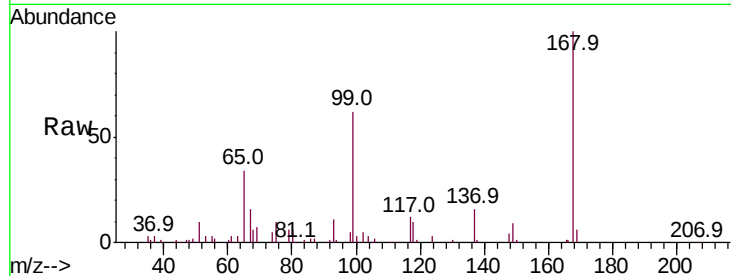
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 150122

Ion Ratio Lower Upper

168 100

99 62.5 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

50000

40000

30000

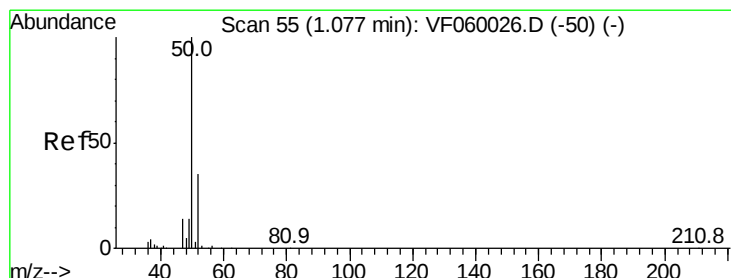
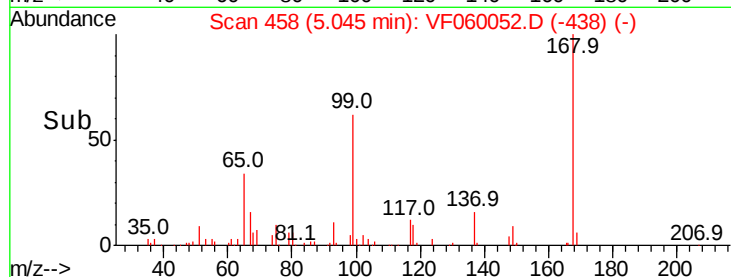
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: Below Cal

RT: 1.08 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060052.D

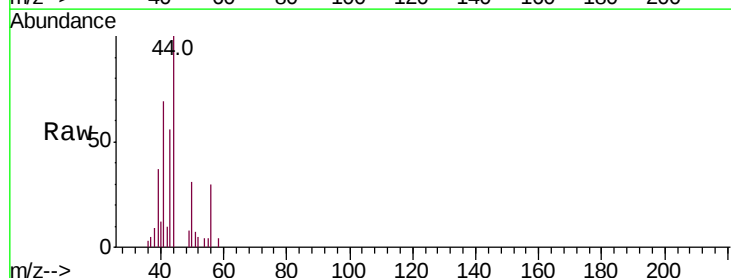
Acq: 23 Aug 2018 14:46

Tgt Ion: 50 Resp: 1743

Ion Ratio Lower Upper

50 100

52 17.7 27.6 41.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

1500

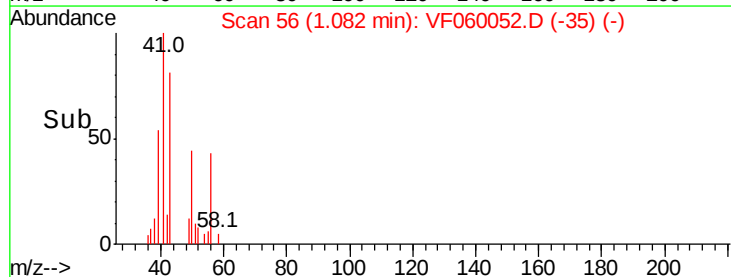
1000

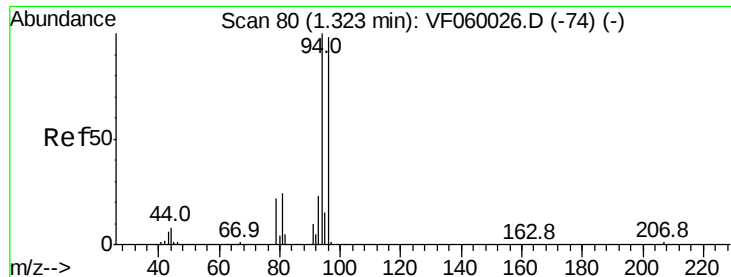
500

0

Time-->

1.05 1.10





#5

Bromomethane

Concen: 1.796 ug/l

RT: 1.32 min Scan# 80

Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

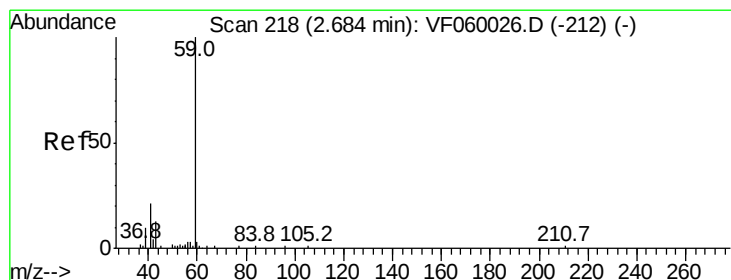
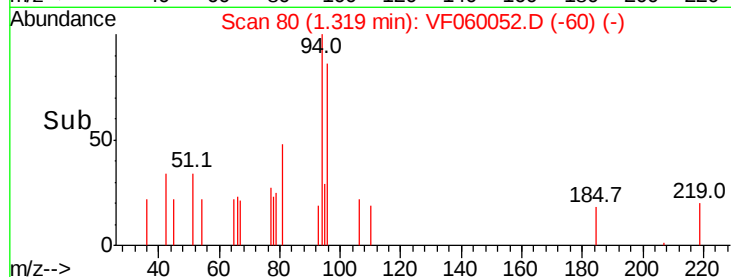
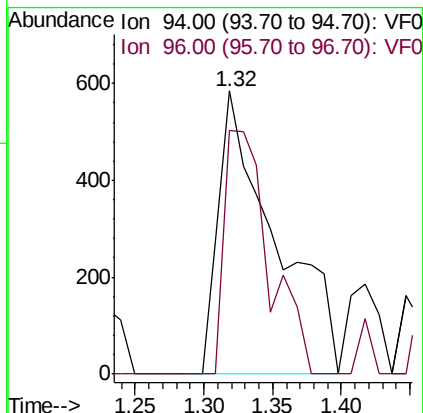
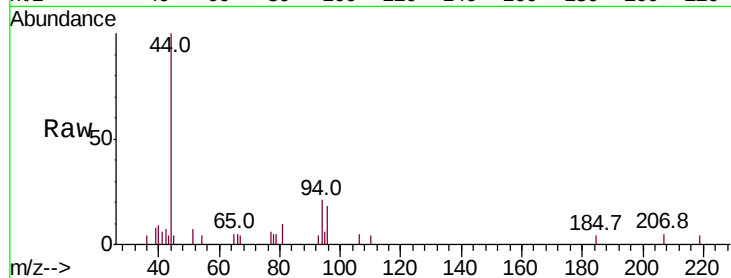
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 1675

Ion Ratio Lower Upper

94 100

96 86.3 78.6 118.0



#11

Tert butyl alcohol

Concen: 6.724 ug/l

RT: 2.68 min Scan# 218

Delta R.T. -0.00 min

Lab File: VF060052.D

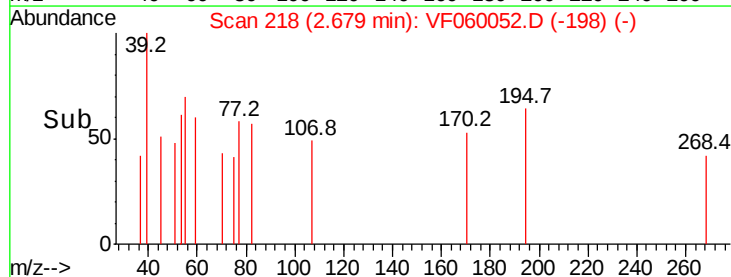
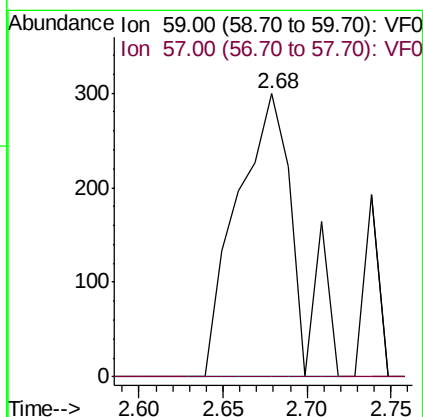
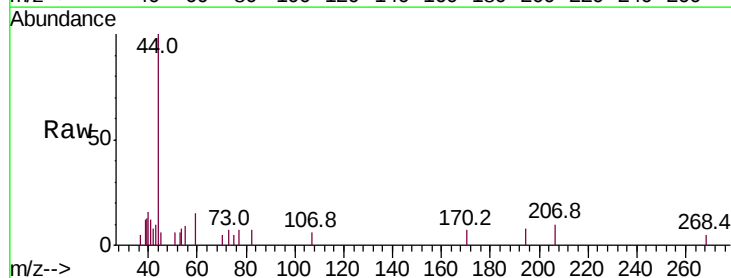
Acq: 23 Aug 2018 14:46

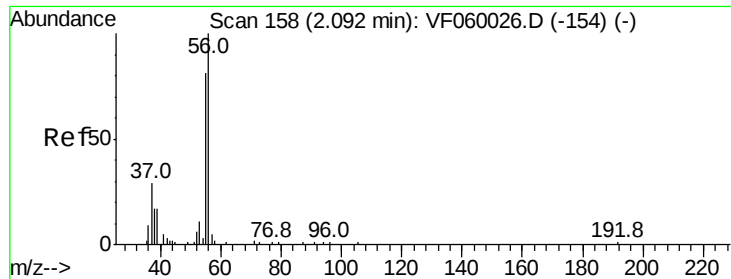
Tgt Ion: 59 Resp: 735

Ion Ratio Lower Upper

59 100

57 0.0 5.4 8.2#





#13

Acrolein

Concen: 31.321 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_F

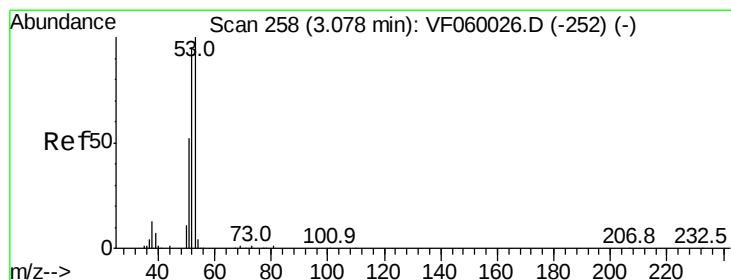
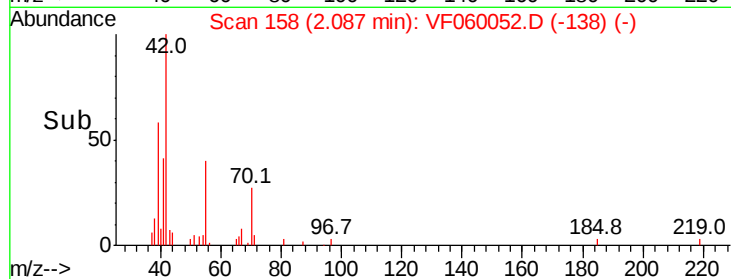
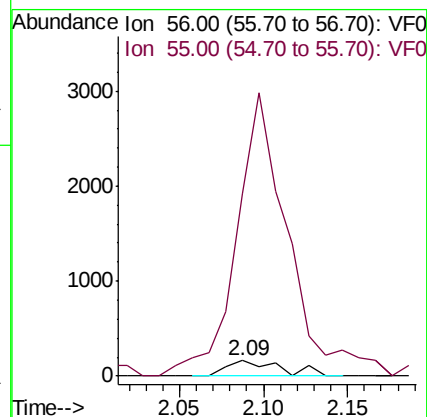
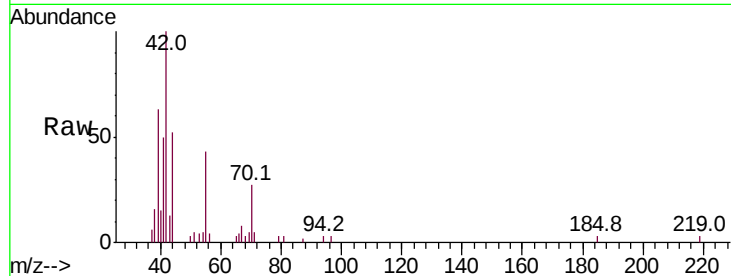
ClientSampleId :

Tot Ion: 56 Resp: 373

Ion Ratio Lower Upper

56 100

55 1161.8 65.6 98.4#



#15

Acrylonitrile

Concen: 1.205 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.02 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

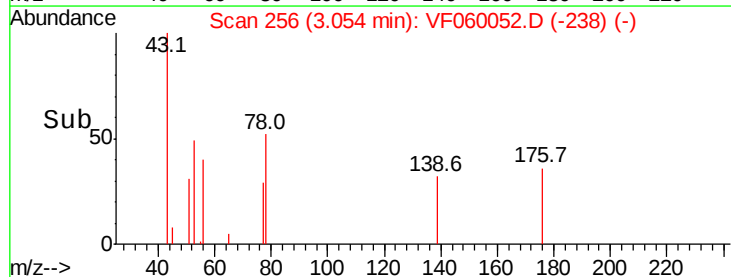
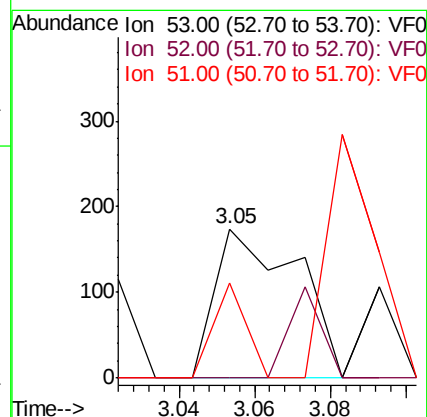
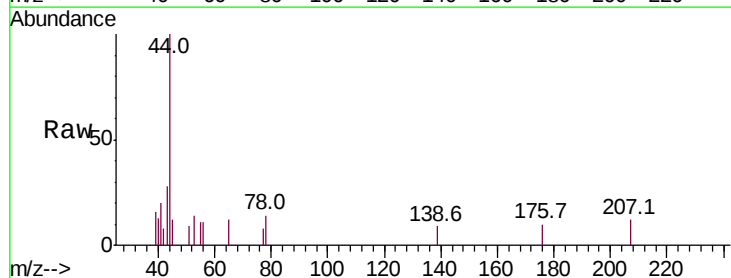
Tgt Ion: 53 Resp: 260

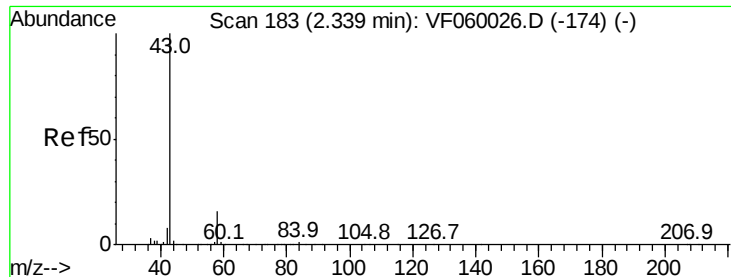
Ion Ratio Lower Upper

53 100

52 0.0 75.8 113.8#

51 63.8 42.1 63.1#





#16

Acetone

Concen: 51.119 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_F

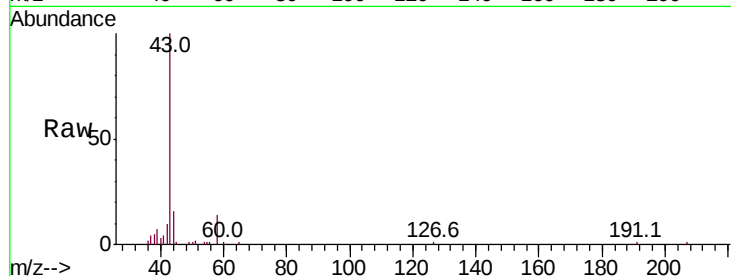
ClientSampleId :

Tot Ion: 43 Resp: 27604

Ion Ratio Lower Upper

43 100

58 14.2 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

15000

10000

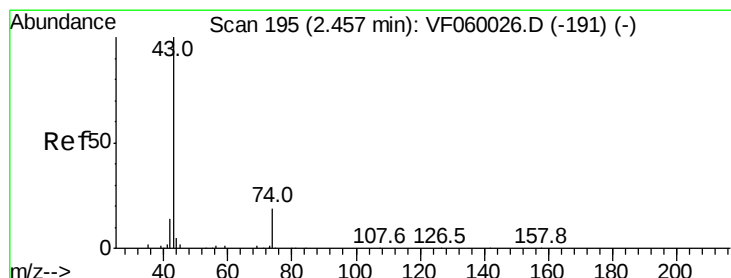
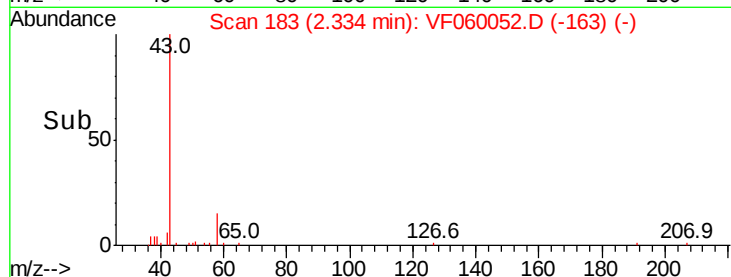
5000

0

2.33

2.40

Time-->



#18

Methyl Acetate

Concen: 1.025 ug/l

RT: 2.48 min Scan# 198

Delta R.T. 0.03 min

Lab File: VF060052.D

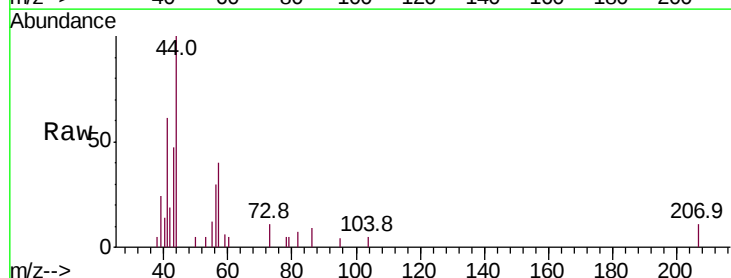
Acq: 23 Aug 2018 14:46

Tgt Ion: 43 Resp: 4659

Ion Ratio Lower Upper

43 100

74 0.0 13.8 20.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

3000

2000

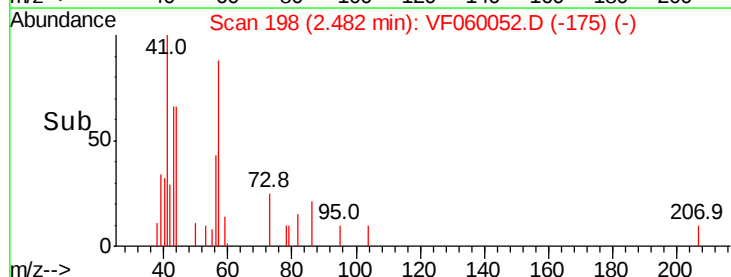
1000

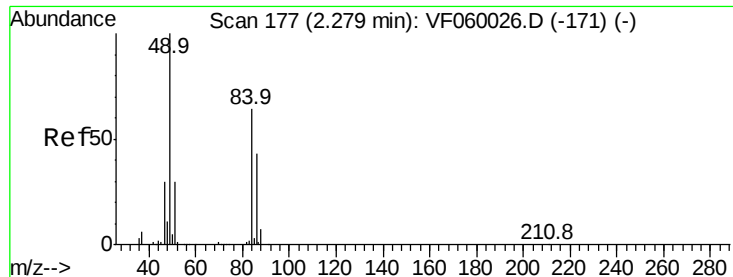
0

2.48

2.60

Time-->





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 177

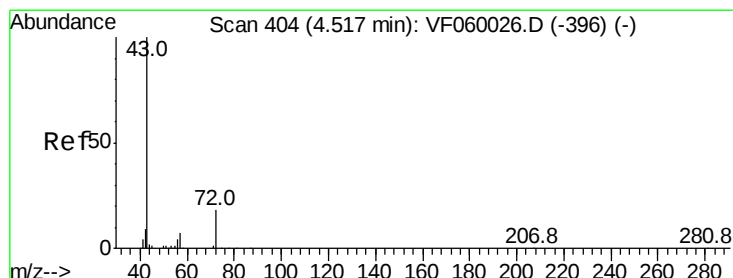
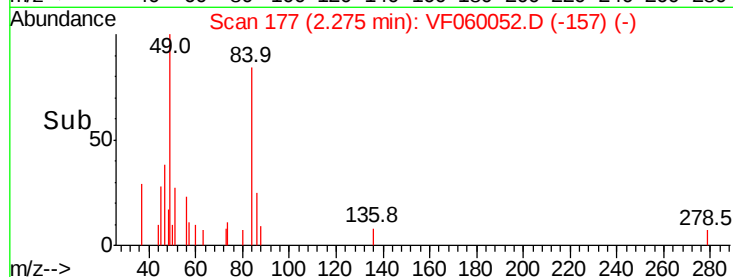
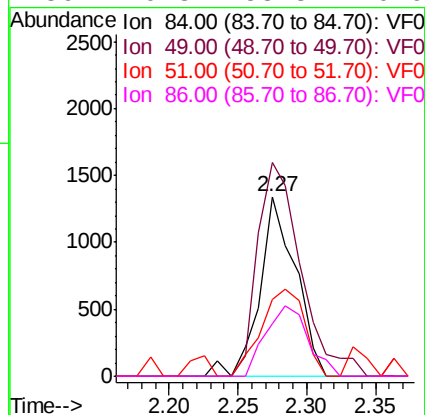
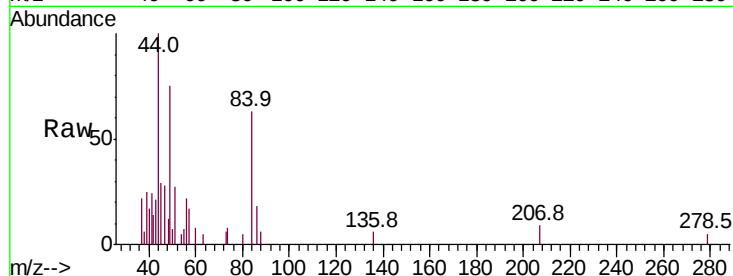
Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	84	Resp:	2447
Ion	Ratio	Lower	Upper
84	100		
49	118.8	125.4	188.0#
51	43.0	38.3	57.5
86	29.3	53.3	79.9#



#25

2-Butanone

Concen: 2.412 ug/l

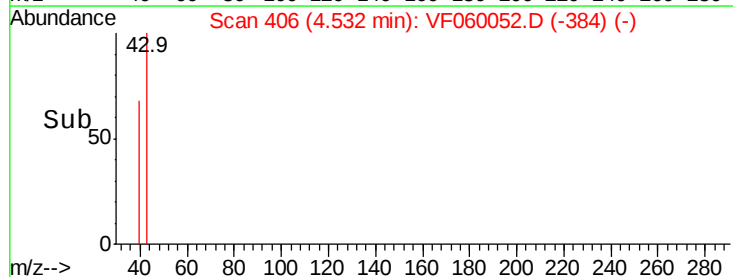
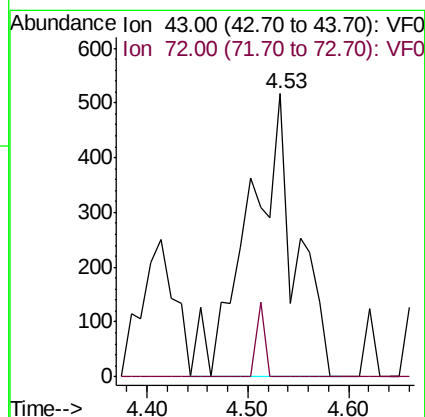
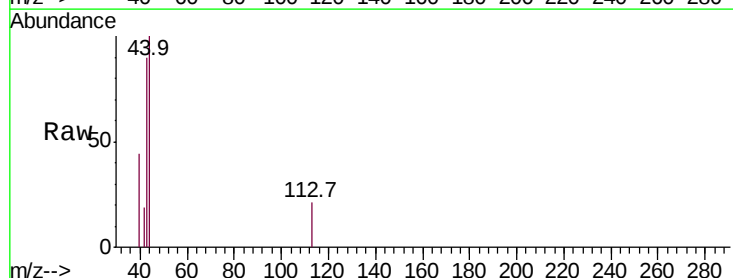
RT: 4.53 min Scan# 406

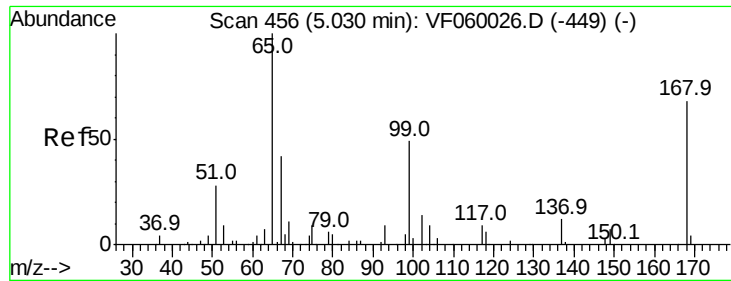
Delta R.T. 0.02 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

Tgt Ion:	43	Resp:	1692
Ion	Ratio	Lower	Upper
43	100		
72	0.0	15.0	22.6#

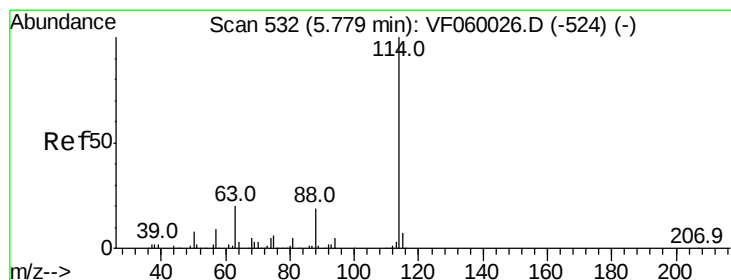
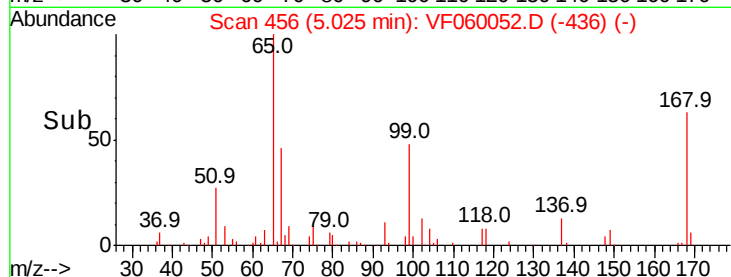
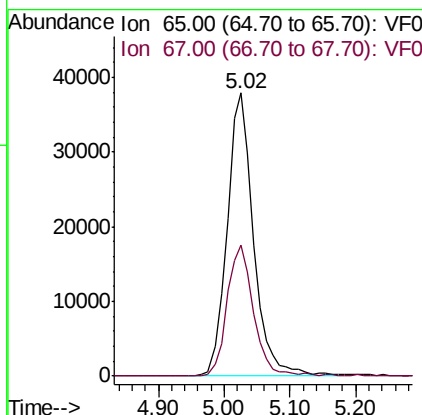
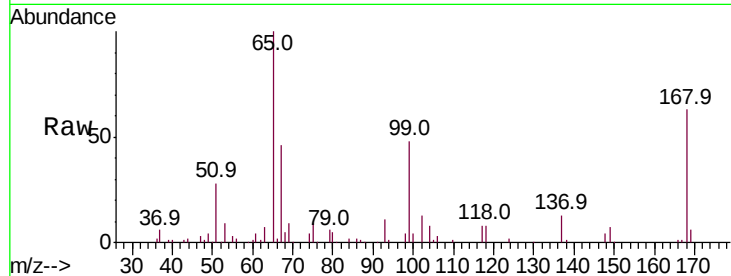




#33
 1,2-Dichloroethane-d4
 Concen: 51.827 ug/l
 RT: 5.02 min Scan# 456
 Delta R.T. -0.00 min
 Lab File: VF060052.D
 Acq: 23 Aug 2018 14:46

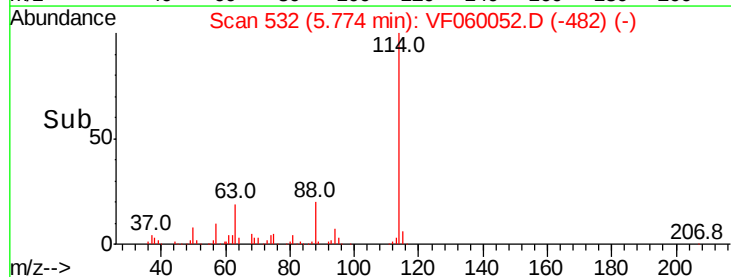
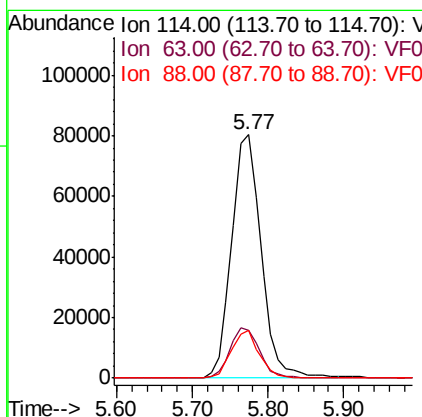
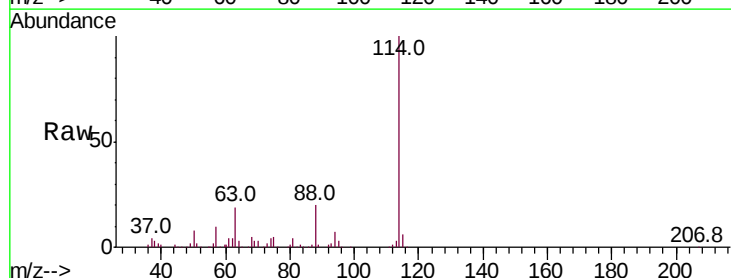
Instrument :
 MSVOA_F
 ClientSampled :

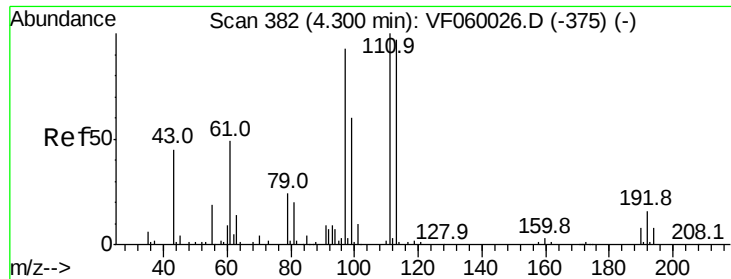
Tot Ion: 65 Resp: 106484
 Ion Ratio Lower Upper
 65 100
 67 46.2 0.0 92.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. -0.00 min
 Lab File: VF060052.D
 Acq: 23 Aug 2018 14:46

Tgt Ion: 114 Resp: 217379
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.4
 88 19.5 0.0 38.6

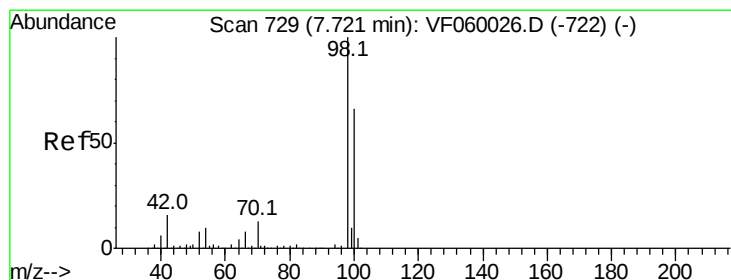
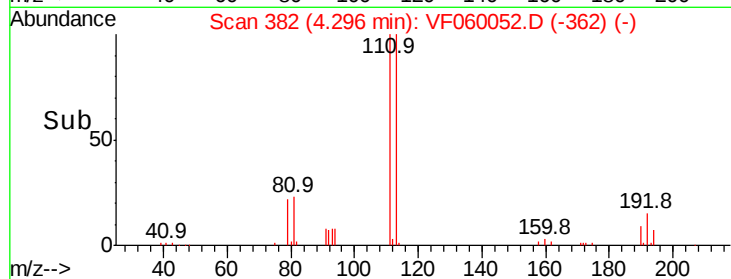
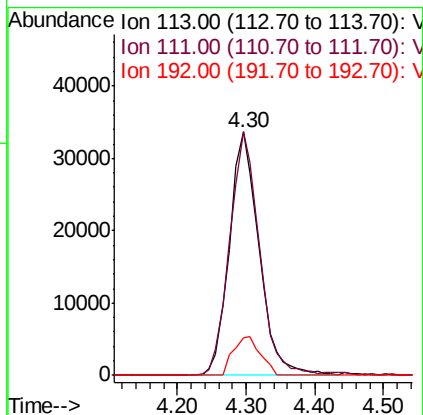
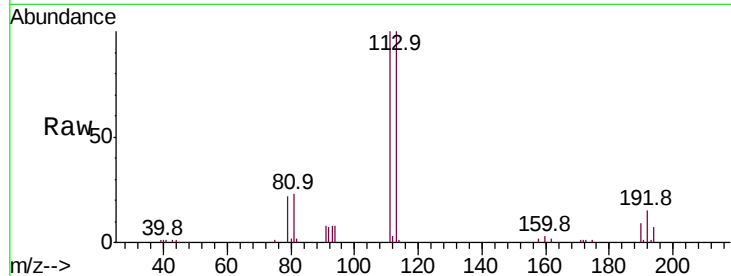




#35
 Dibromofluoromethane
 Concen: 59.073 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VF060052.D
 Acq: 23 Aug 2018 14:46

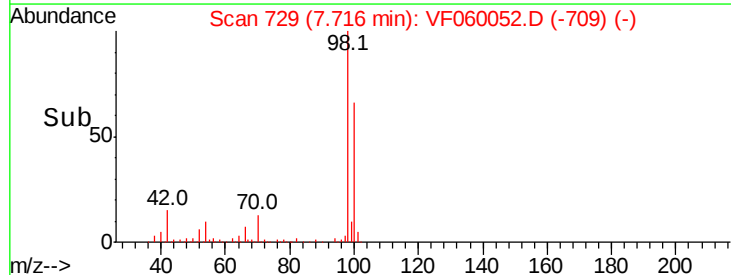
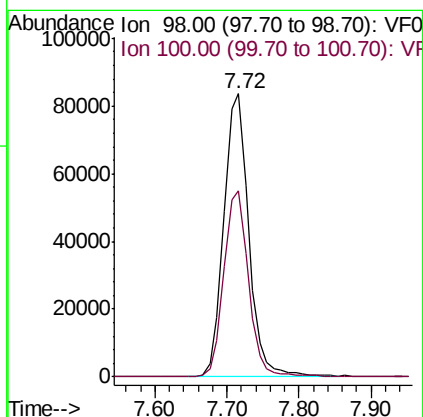
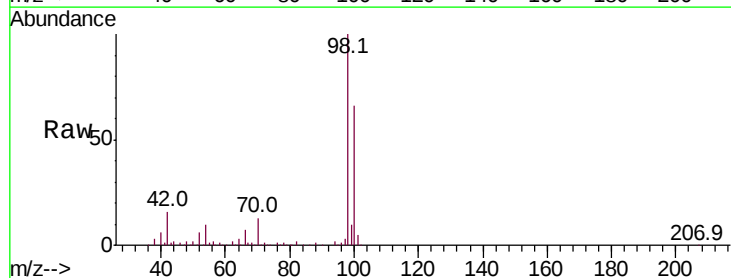
Instrument :
 MSVOA_F
 ClientSampled :

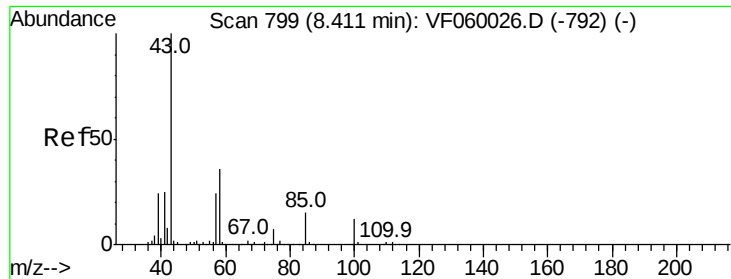
Tot Ion:113 Resp: 100836
 Ion Ratio Lower Upper
 113 100
 111 100.1 82.7 124.1
 192 15.4 13.0 19.4



#50
 Toluene-d8
 Concen: 41.503 ug/l
 RT: 7.72 min Scan# 729
 Delta R.T. -0.00 min
 Lab File: VF060052.D
 Acq: 23 Aug 2018 14:46

Tgt Ion: 98 Resp: 201197
 Ion Ratio Lower Upper
 98 100
 100 65.6 53.2 79.8





#51

4-Methyl-2-Pentanone

Concen: 2.066 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_F

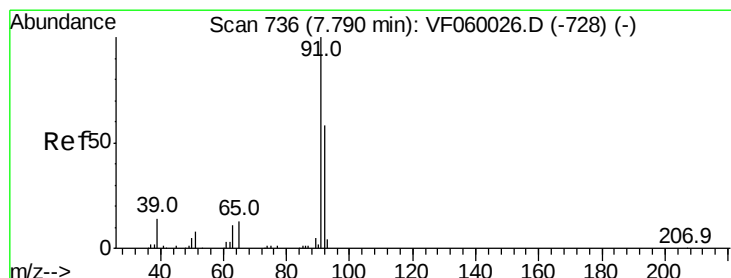
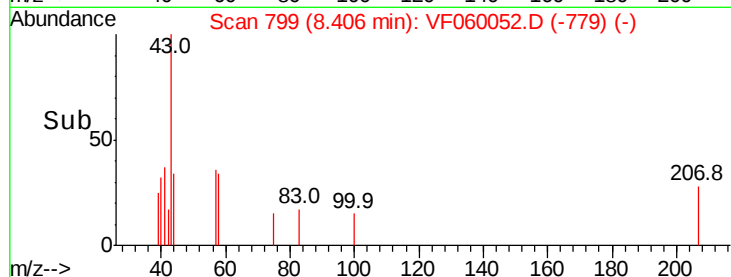
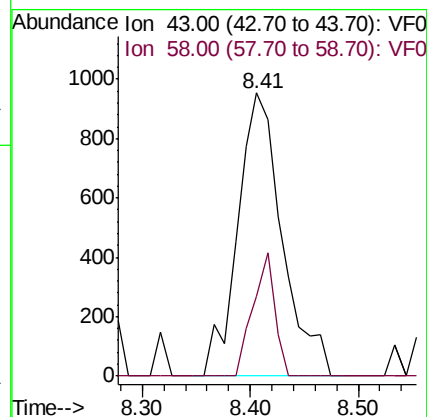
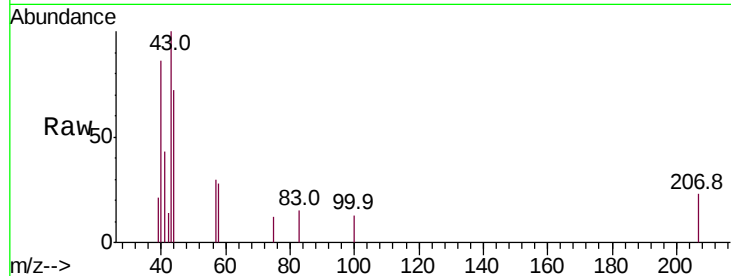
ClientSampled :

Tot Ion: 43 Resp: 2744

Ion Ratio Lower Upper

43 100

58 28.1 28.6 42.8#



#52

Toluene

Concen: 1.130 ug/l

RT: 7.78 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF060052.D

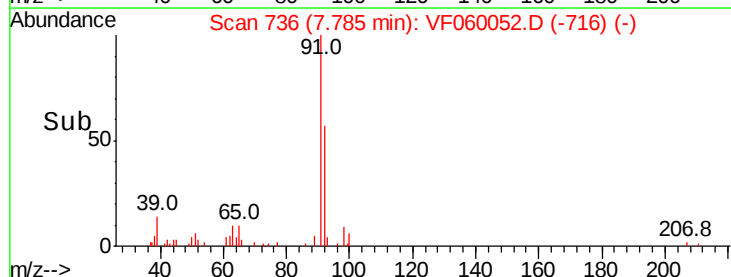
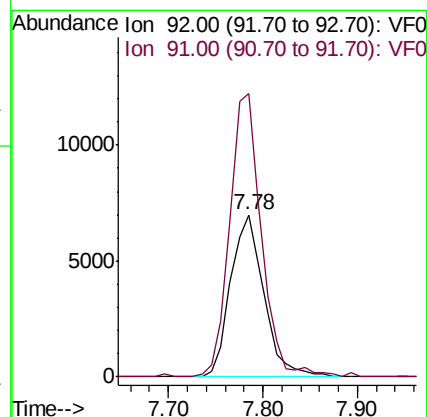
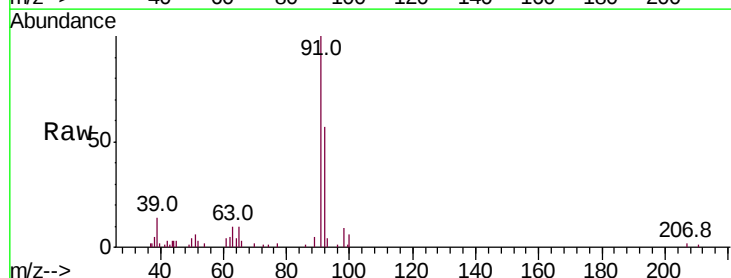
Acq: 23 Aug 2018 14:46

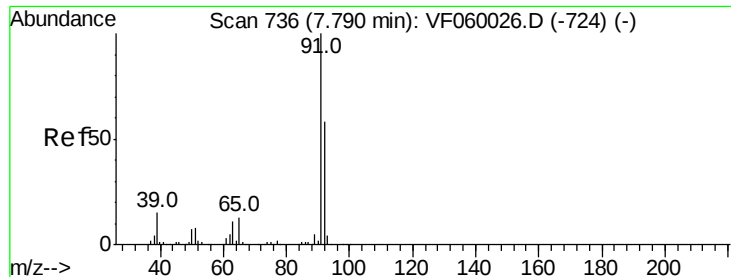
Tgt Ion: 92 Resp: 17014

Ion Ratio Lower Upper

92 100

91 174.3 137.7 206.5





#58

2-Chloroethyl Vinyl ether

Concen: 24.765 ug/l

RT: 7.78 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_F

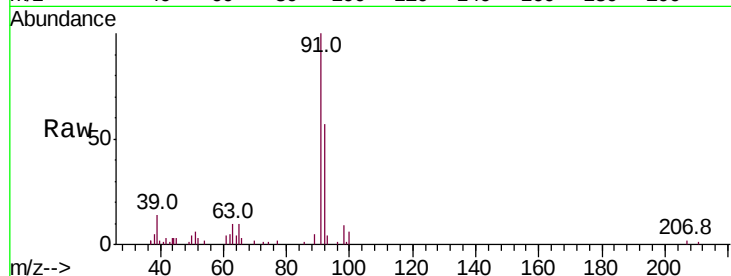
ClientSampleId :

Tot Ion: 63 Resp: 2865

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

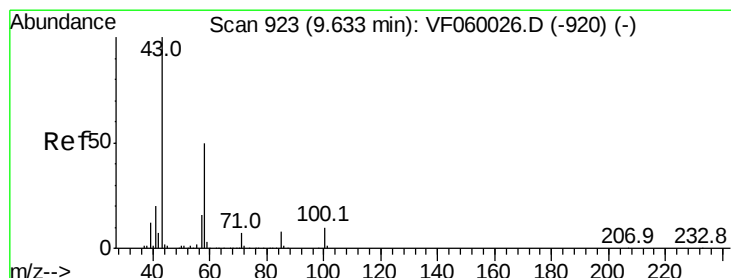
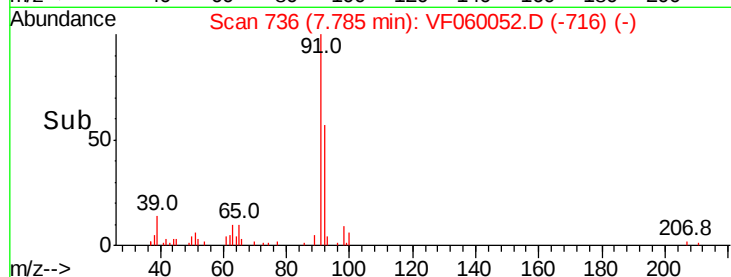
7.78

1000

500

0

Time--> 7.70 7.75 7.80 7.85



#59

2-Hexanone

Concen: 3.222 ug/l

RT: 9.65 min Scan# 925

Delta R.T. 0.02 min

Lab File: VF060052.D

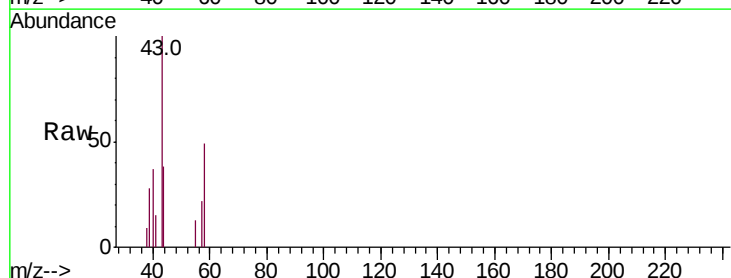
Acq: 23 Aug 2018 14:46

Tgt Ion: 43 Resp: 3463

Ion Ratio Lower Upper

43 100

58 48.9 23.4 70.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

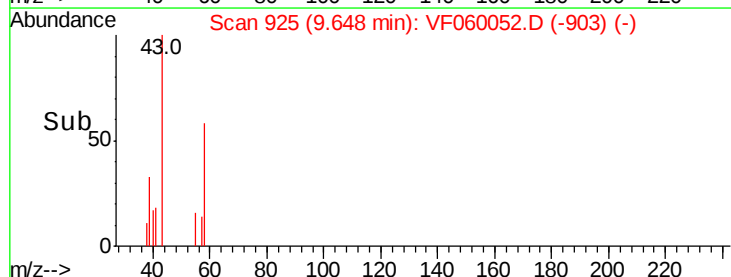
1500

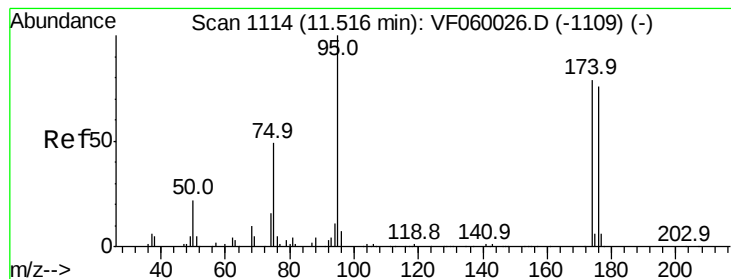
1000

500

0

Time--> 9.55 9.60 9.65 9.70





#62

4-Bromofluorobenzene

Concen: 25.434 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_F

ClientSampleId :

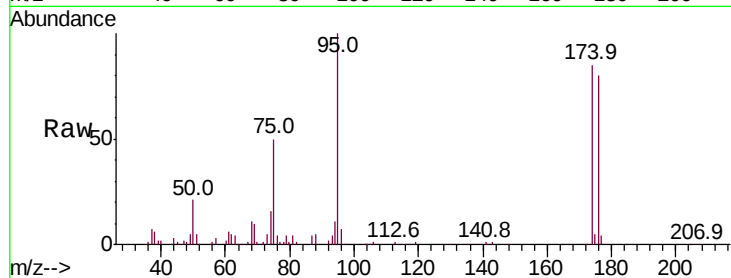
Tot Ion: 95 Resp: 65226

Ion Ratio Lower Upper

95 100

174 84.8 0.0 158.4

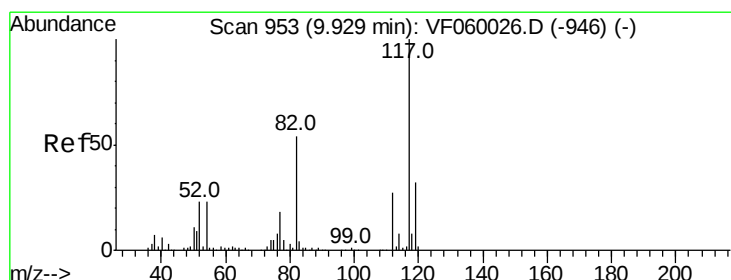
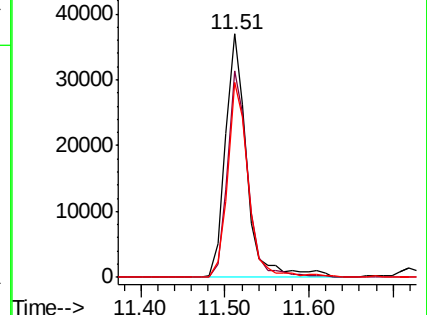
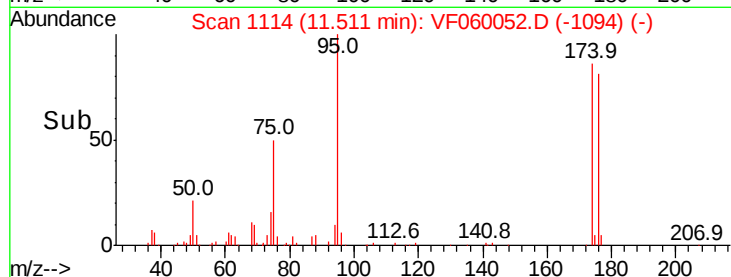
176 80.2 0.0 153.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

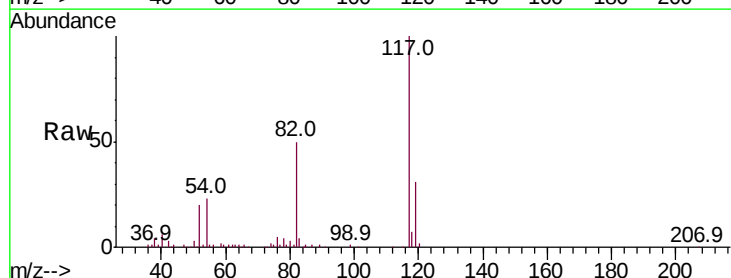
Tgt Ion: 117 Resp: 163746

Ion Ratio Lower Upper

117 100

82 50.1 43.6 65.4

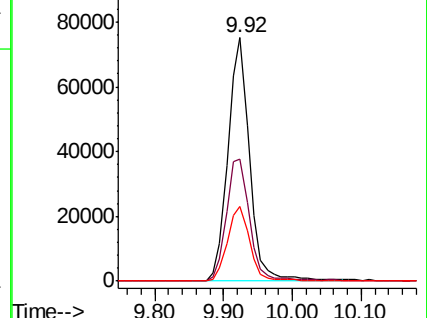
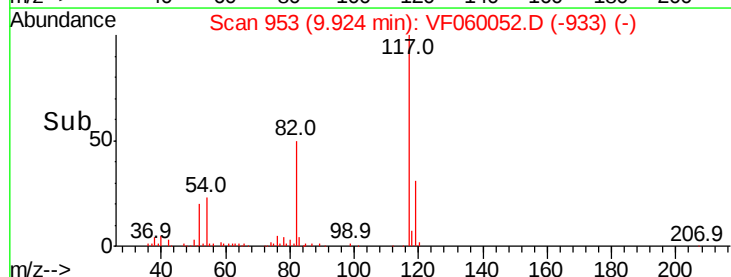
119 30.5 25.6 38.4

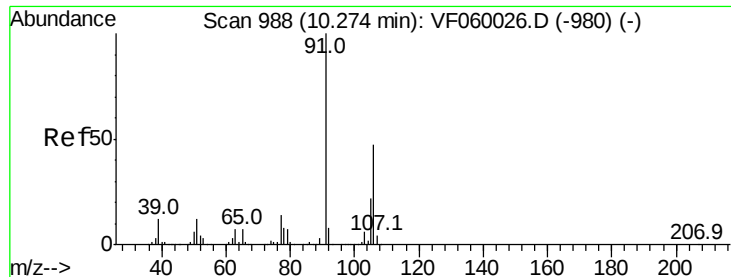


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

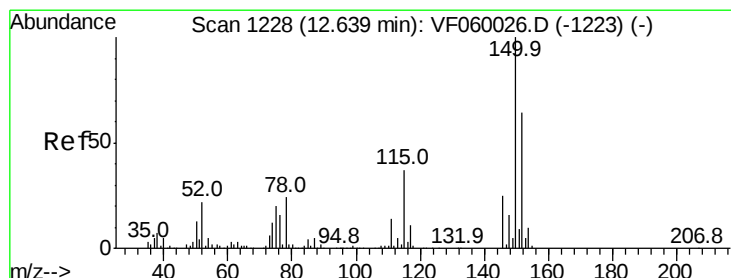
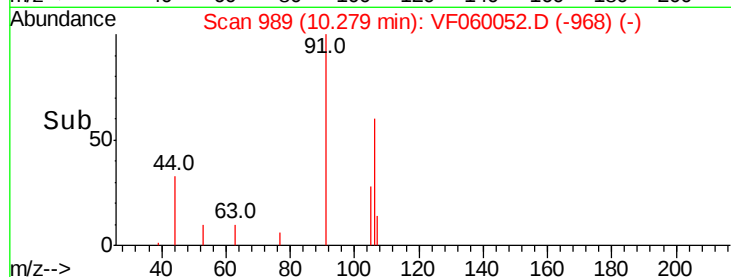
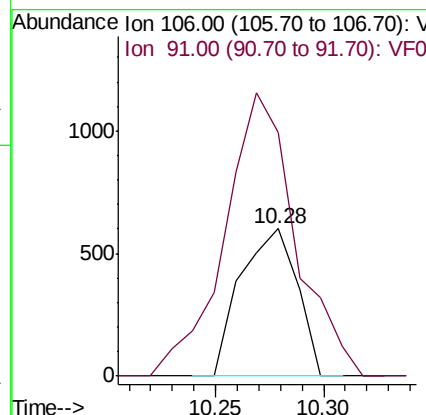
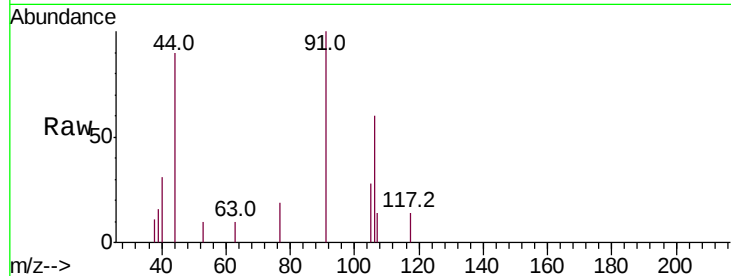




#68
m/p-Xvlenes
Concen: Below Cal
RT: 10.28 min Scan# 989
Delta R.T. 0.01 min
Lab File: VF060052.D
Acq: 23 Aug 2018 14:46

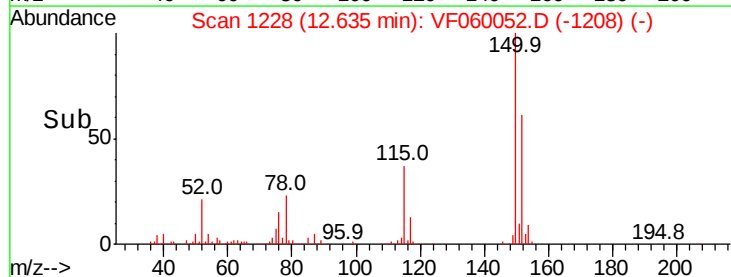
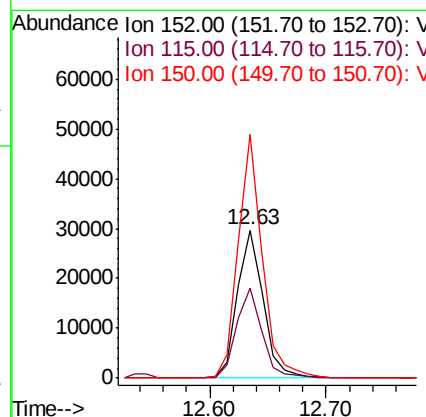
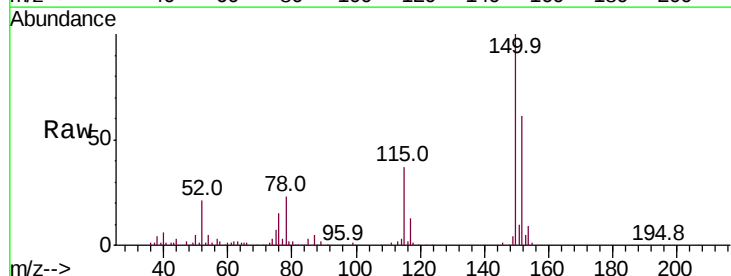
Instrument :
MSVOA_F
ClientSampled :

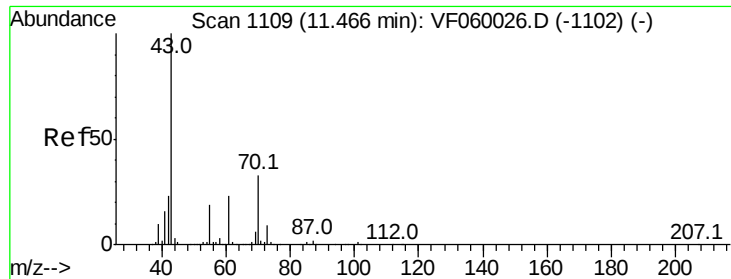
Tot Ion:106 Resp: 1092
Ion Ratio Lower Upper
106 100
91 165.6 171.8 257.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VF060052.D
Acq: 23 Aug 2018 14:46

Tgt Ion:152 Resp: 45835
Ion Ratio Lower Upper
152 100
115 60.7 28.6 85.9
150 164.4 0.0 312.0





#74

N-amvl acetate

Concen: 1.268 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 1087

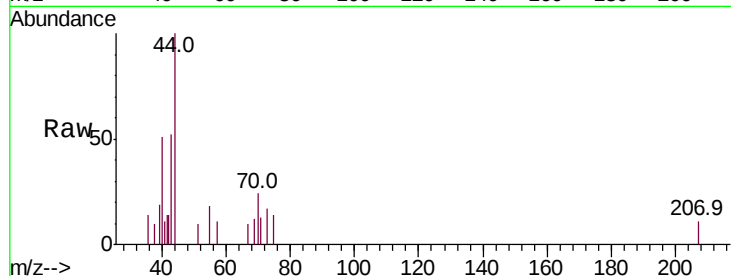
Ion Ratio Lower Upper

43 100

70 46.3 26.4 39.6#

55 35.2 15.0 22.4#

61 0.0 18.4 27.6#

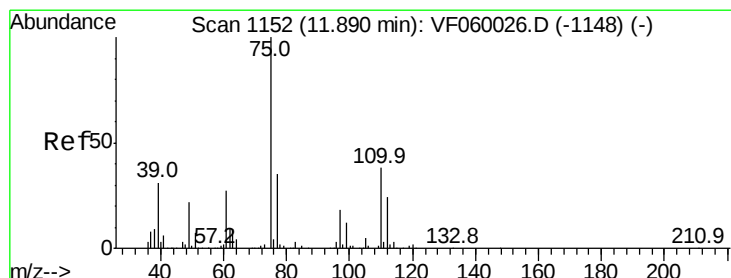
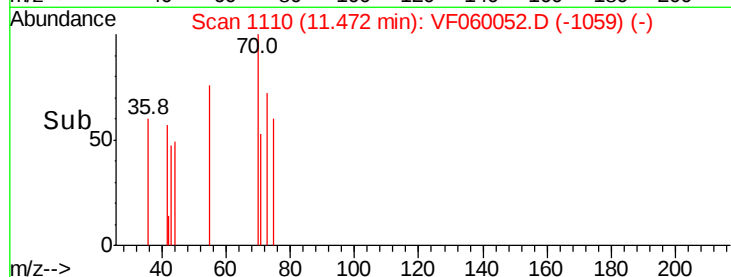
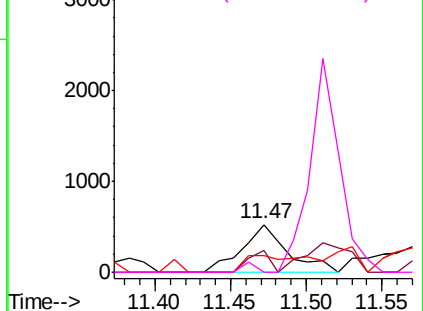


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#76

1,2,3-Trichloropropane

Concen: 1.042 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF060052.D

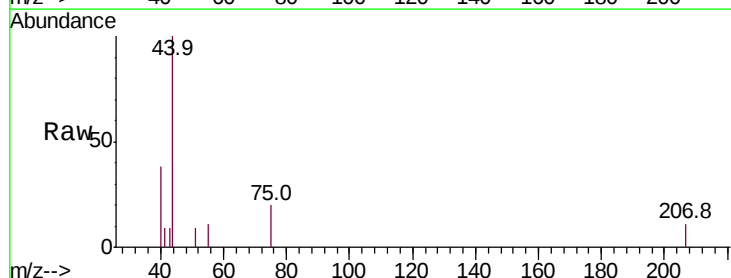
Acq: 23 Aug 2018 14:46

Tgt Ion: 75 Resp: 487

Ion Ratio Lower Upper

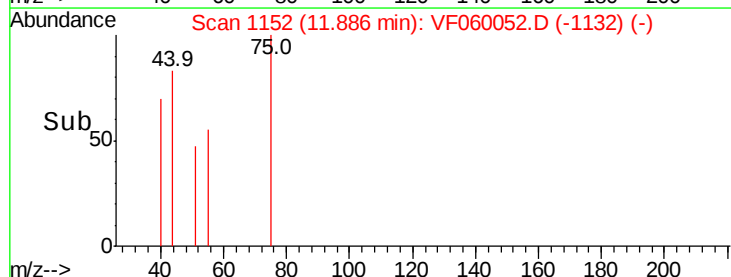
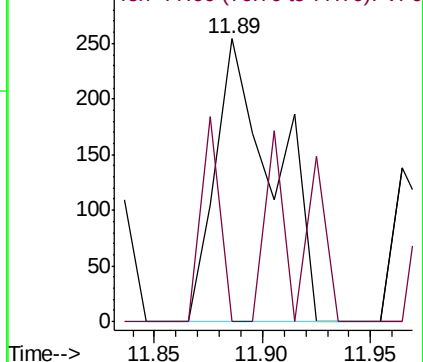
75 100

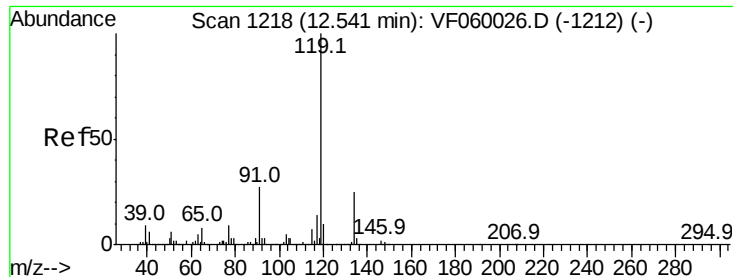
77 0.0 17.3 52.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

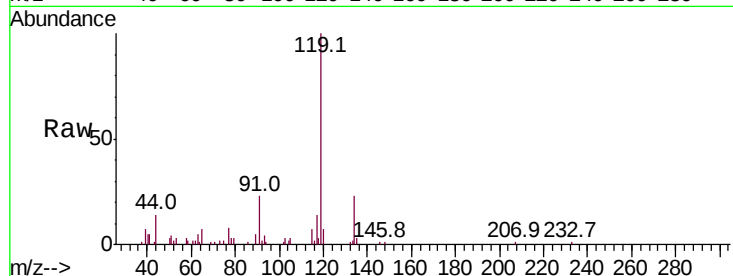




#86
p-Isopropyltoluene
Concen: 6.682 ug/l
RT: 12.55 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VF060052.D
Acq: 23 Aug 2018 14:46

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	23.1	12.4	37.2
91	23.3	13.5	40.4

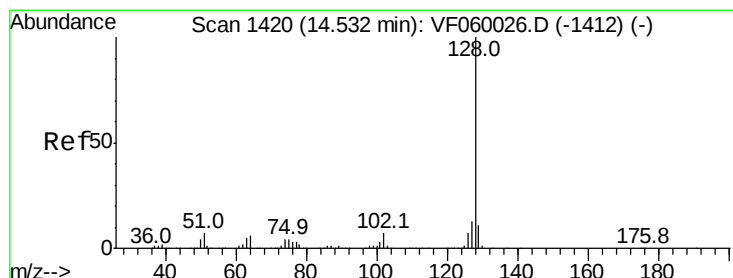
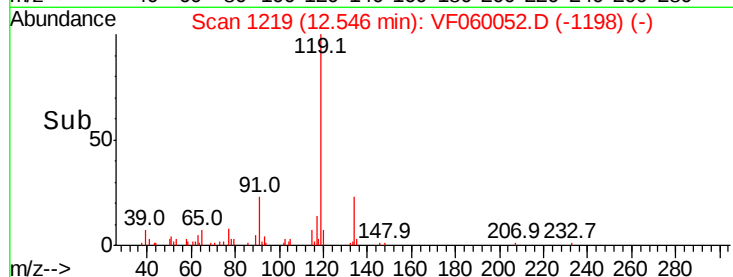
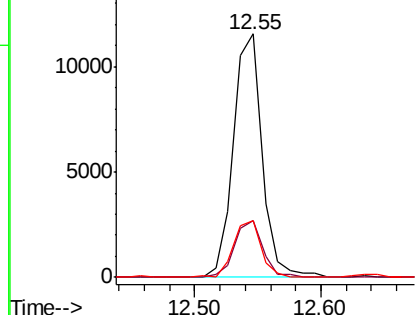


Abundance

Ion 119.00 (118.70 to 119.70): V

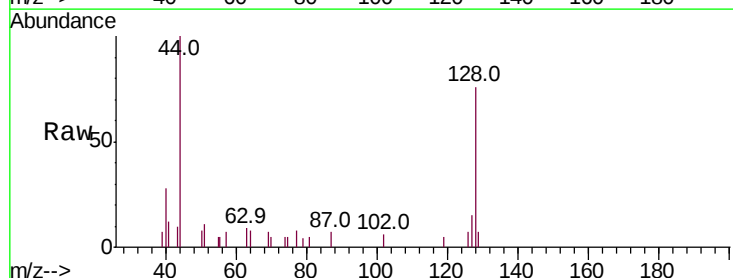
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#95
Naphthalene
Concen: 4.077 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.00 min
Lab File: VF060052.D
Acq: 23 Aug 2018 14:46

Tgt Ion	Ratio	Lower	Upper
128	100		
127	19.5	10.4	15.6#
129	9.9	8.5	12.7

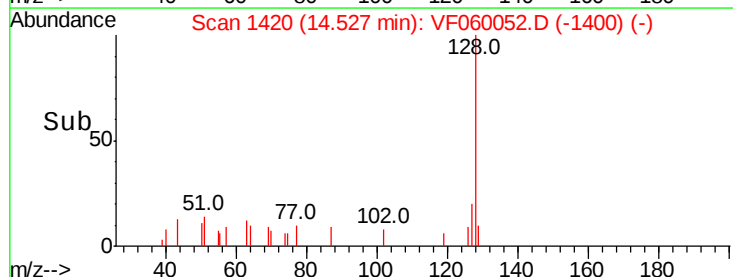
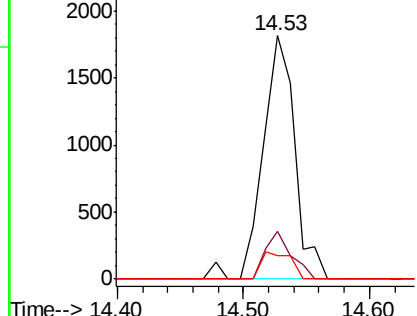


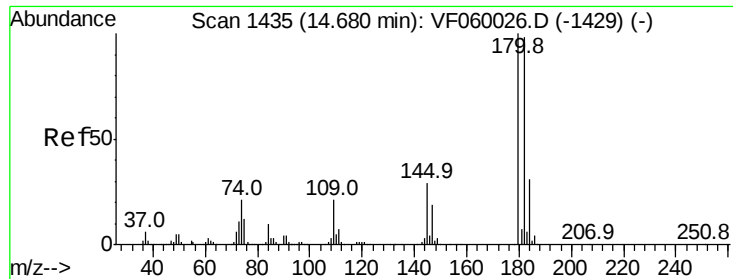
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 1.145 ug/l

RT: 14.68 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VF060052.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_F

ClientSampleId :

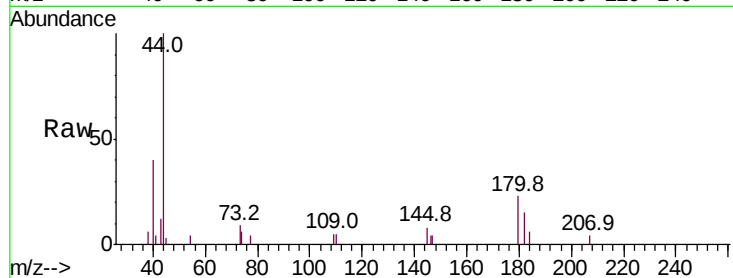
Tot Ion:180 Resp: 1073

Ion Ratio Lower Upper

180 100

182 65.5 49.0 147.2

145 35.6 14.4 43.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

