

Data File : VF060690.D
Acq On : 12 Nov 2018 17:29
Operator : VA/AP
Sample : VF1112SBL01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBL01

Quant Time: Nov 13 04:15:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	218462	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	349532	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	332100	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	206146	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	125480	56.85	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.70%	
35) Dibromofluoromethane	4.09	113	153150	56.71	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	113.42%	
50) Toluene-d8	7.54	98	397779	49.72	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	99.44%	
62) 4-Bromofluorobenzene	11.40	95	204943	58.57	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	117.14%	

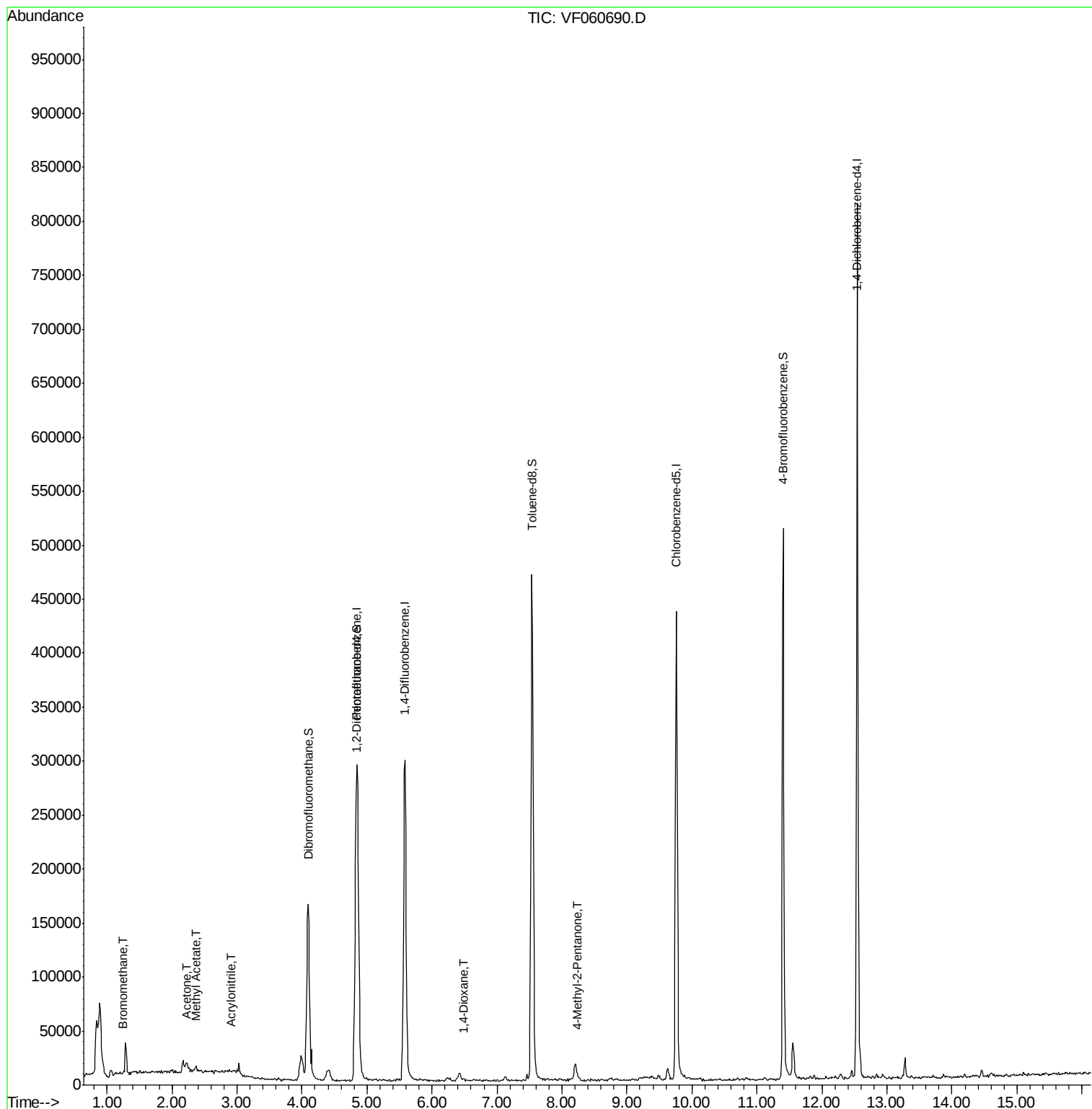
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	0.96	85	988	Below Cal		91
5) Bromomethane	1.23	94	1155	1.168 ug/l		83
6) Chloroethane	1.42	64	86	Below Cal	#	8
11) Tert butyl alcohol	2.54	59	134	Below Cal	#	1
13) Acrolein	2.00	56	749	Below Cal	#	3
15) Acrylonitrile	2.92	53	585	2.224 ug/l	#	55
16) Acetone	2.22	43	3948	7.591 ug/l	#	88
18) Methyl Acetate	2.37	43	2725	3.820 ug/l	#	64
20) Methylene Chloride	2.17	84	5353	Below Cal		82
25) 2-Butanone	4.34	43	2301	Below Cal	#	56
29) Tetrahydrofuran	4.07	42	962	Below Cal	#	56
49) 1,4-Dioxane	6.48	88	83	5.402 ug/l	#	1
51) 4-Methyl-2-Pentanone	8.25	43	4402	2.801 ug/l	#	76
58) 2-Chloroethyl Vinyl ether	7.60	63	64	Below Cal		100
59) 2-Hexanone	9.48	43	5324	Below Cal		76
74) N-amyl acetate	11.36	43	1783	Below Cal	#	75
89) n-Butylbenzene	12.83	91	1299	Below Cal		91

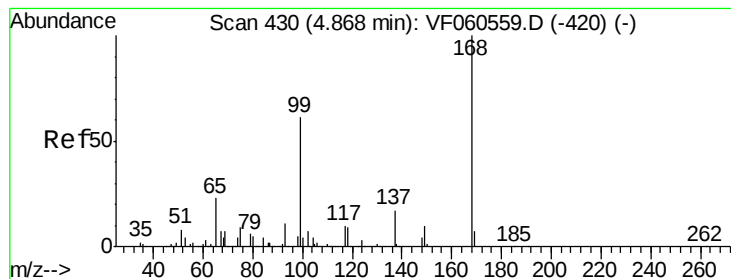
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Instrument :

MSVOA_F

ClientSampleId :

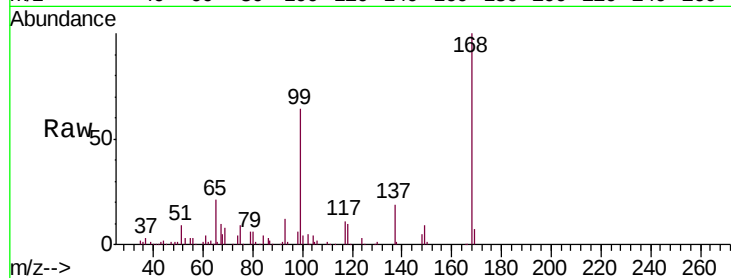
VF1112SBL01

Tgt Ion:168 Resp: 218462

Ion Ratio Lower Upper

168 100

99 63.6 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

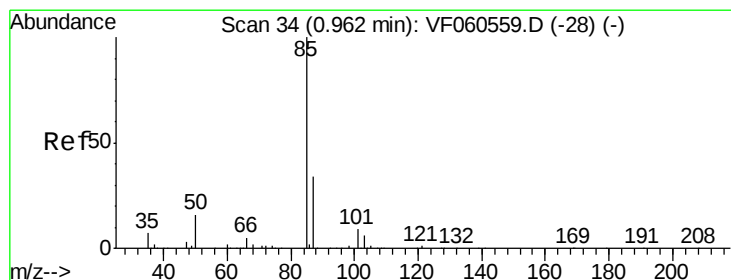
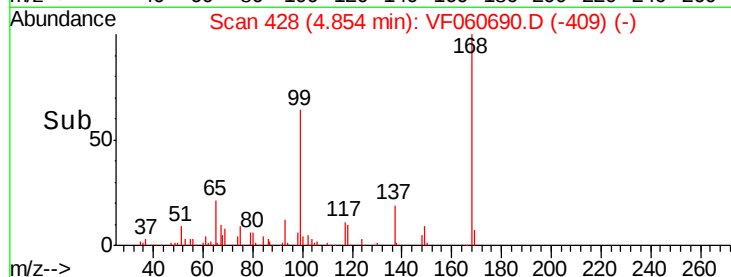
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF060690.D

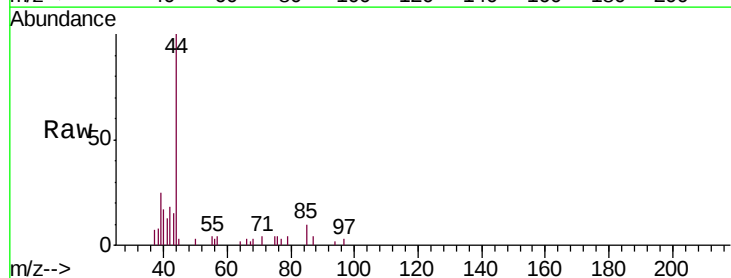
Acq: 12 Nov 2018 17:29

Tgt Ion: 85 Resp: 988

Ion Ratio Lower Upper

85 100

87 38.8 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

500

400

300

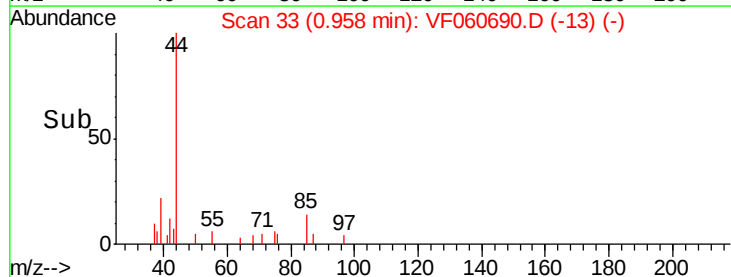
200

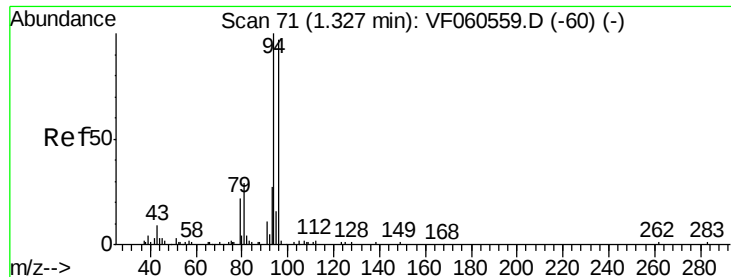
100

0

0.90 0.95 1.00

Time-->





#5

Bromomethane

Concen: 1.168 ug/l

RT: 1.23 min Scan# 61

Delta R.T. -0.09 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Instrument :

MSVOA_F

ClientSampleId :

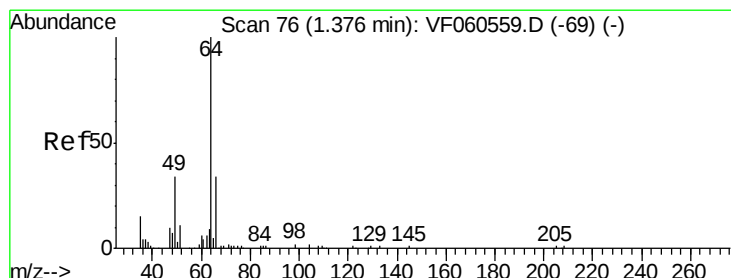
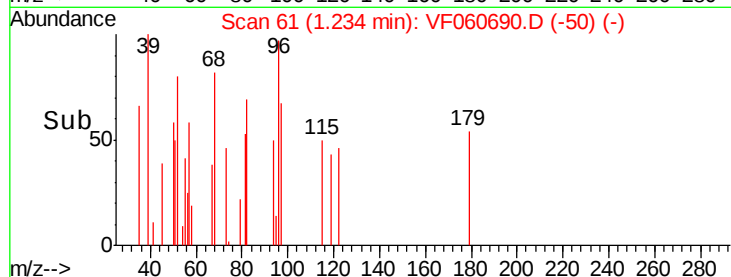
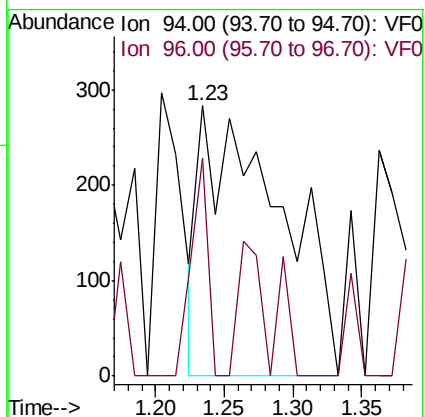
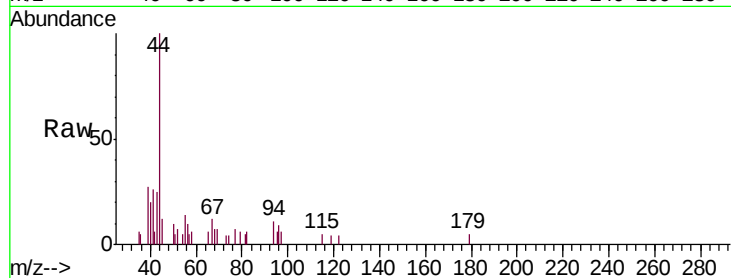
VF1112SBL01

Tgt Ion: 94 Resp: 1155

Ion Ratio Lower Upper

94 100

96 80.6 77.9 116.9



#6

Chloroethane

Concen: Below Cal

RT: 1.42 min Scan# 80

Delta R.T. 0.05 min

Lab File: VF060690.D

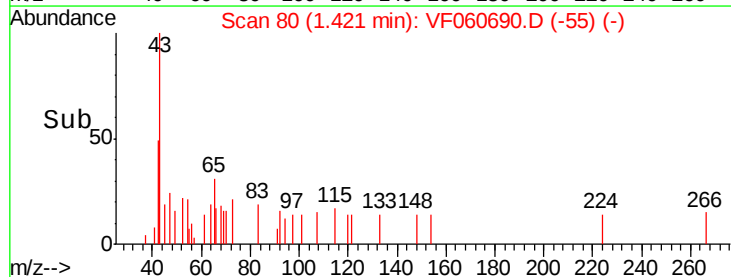
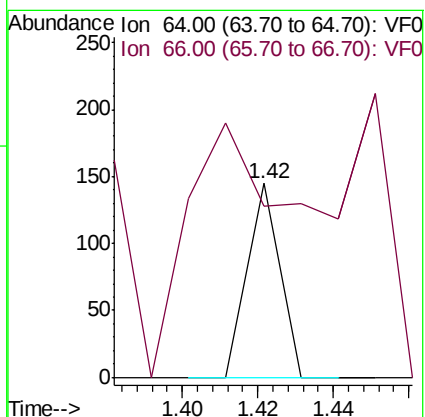
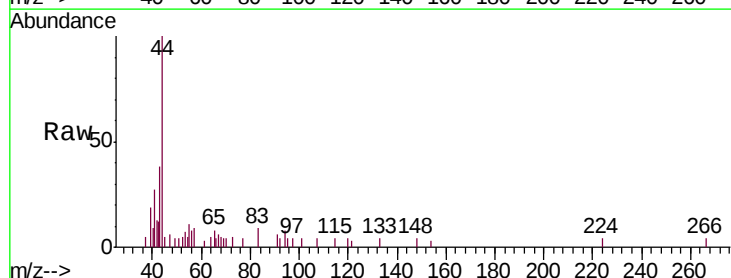
Acq: 12 Nov 2018 17:29

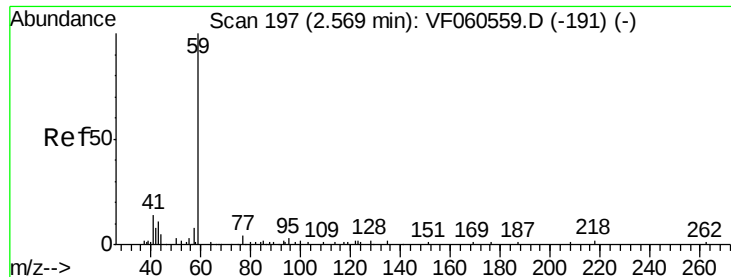
Tgt Ion: 64 Resp: 86

Ion Ratio Lower Upper

64 100

66 88.3 27.8 41.8#

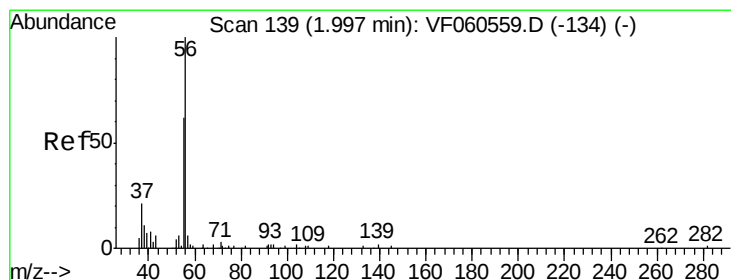
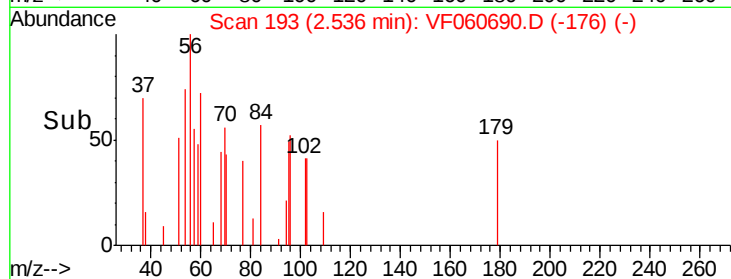
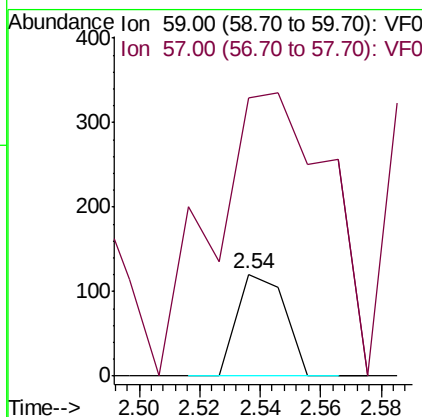
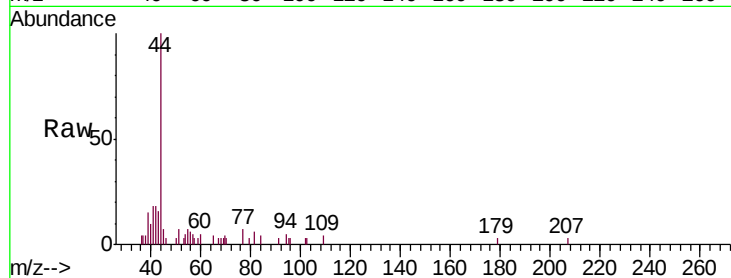




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.54 min Scan# 193
Delta R.T. -0.03 min
Lab File: VF060690.D
Acq: 12 Nov 2018 17:29

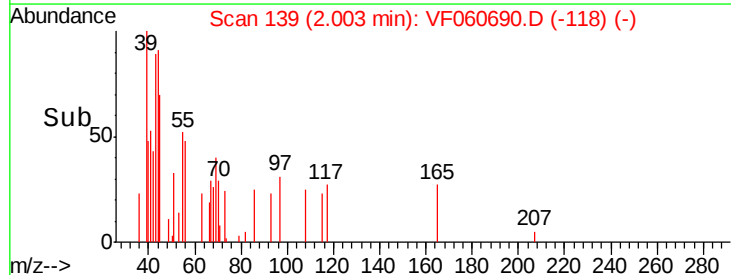
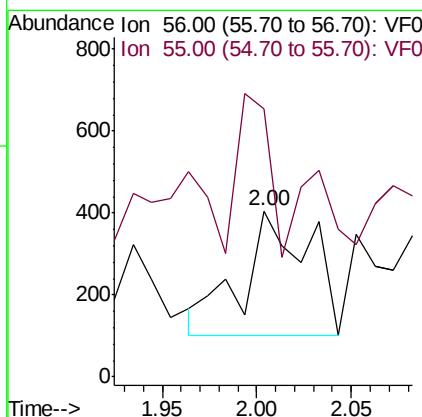
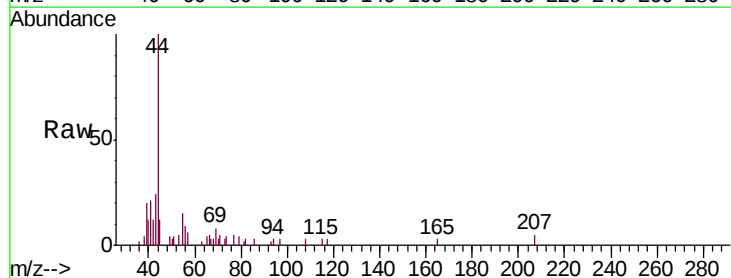
Instrument :
MSVOA_F
ClientSampleId :
VF1112SBL01

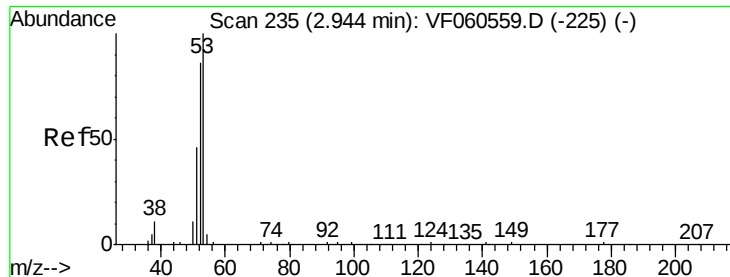
Tgt Ion: 59 Resp: 134
Ion Ratio Lower Upper
59 100
57 271.9 19.0 28.4#



#13
Acrolein
Concen: Below Cal
RT: 2.00 min Scan# 139
Delta R.T. 0.01 min
Lab File: VF060690.D
Acq: 12 Nov 2018 17:29

Tgt Ion: 56 Resp: 749
Ion Ratio Lower Upper
56 100
55 161.5 61.8 92.6#





#15

Acrylonitrile

Concen: 2.224 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBL01

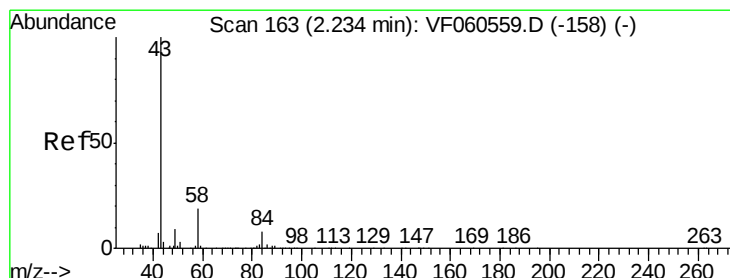
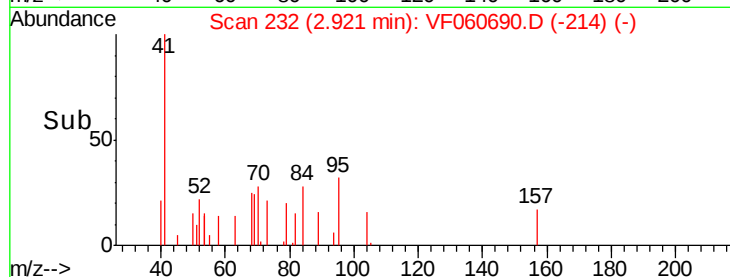
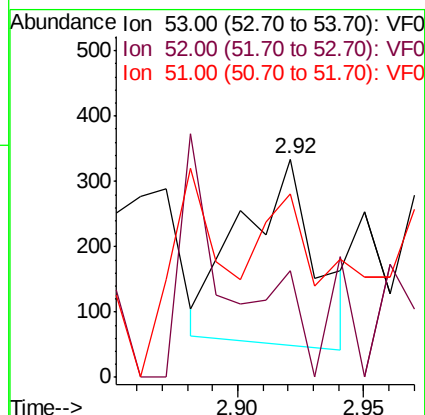
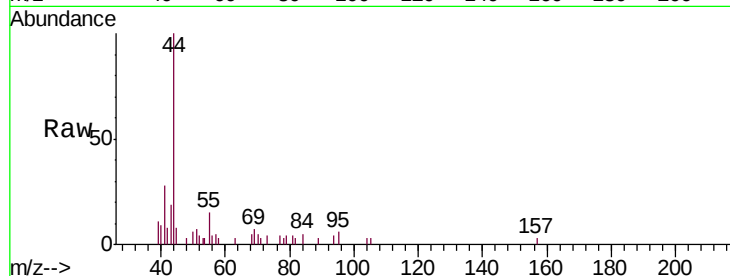
Tgt Ion: 53 Resp: 585

Ion Ratio Lower Upper

53 100

52 48.8 68.5 102.7#

51 84.1 38.2 57.2#



#16

Acetone

Concen: 7.591 ug/l

RT: 2.22 min Scan# 161

Delta R.T. -0.01 min

Lab File: VF060690.D

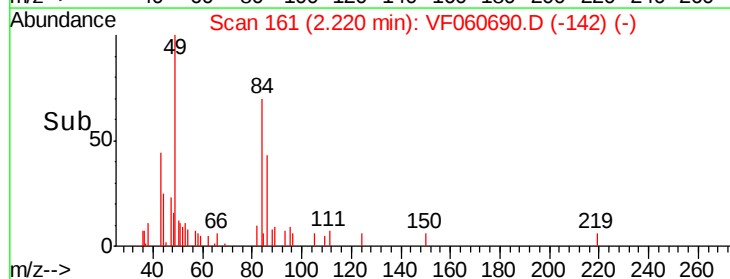
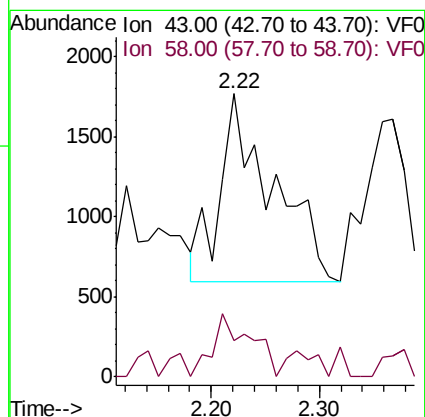
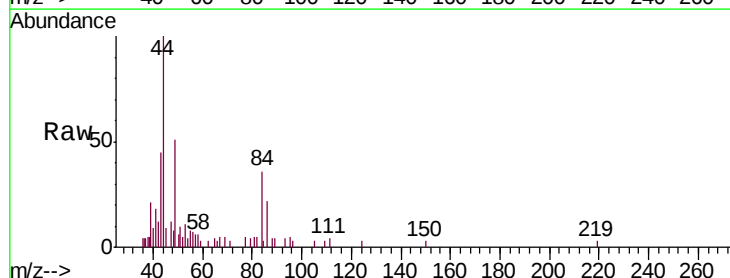
Acq: 12 Nov 2018 17:29

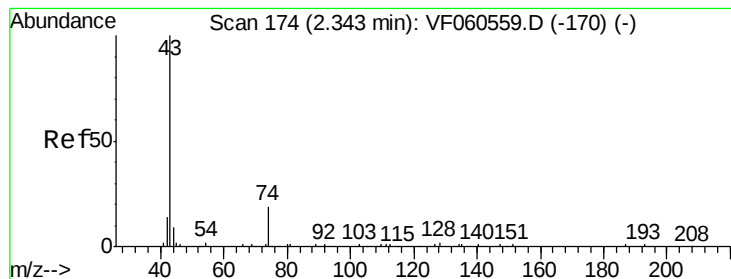
Tgt Ion: 43 Resp: 3948

Ion Ratio Lower Upper

43 100

58 13.0 14.6 22.0#





#18

Methyl Acetate

Concen: 3.820 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.03 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Instrument :

MSVOA_F

ClientSampleId :

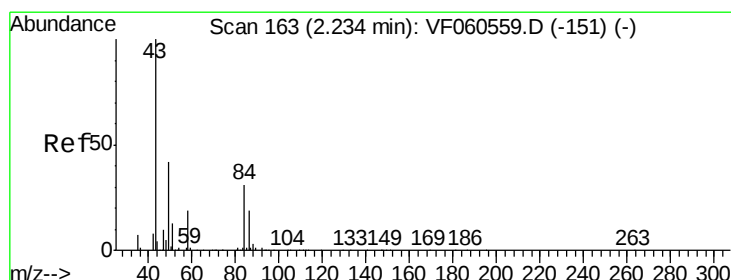
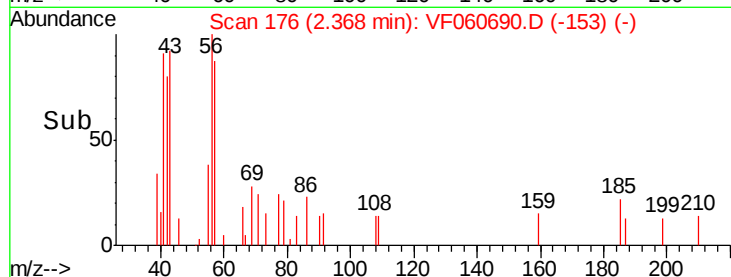
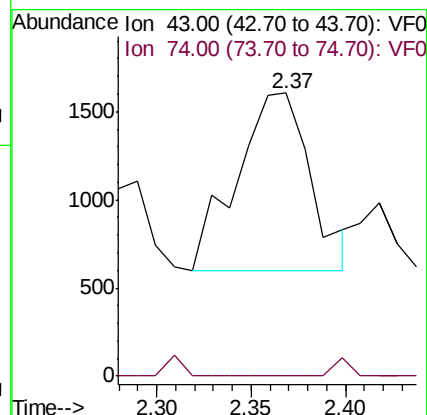
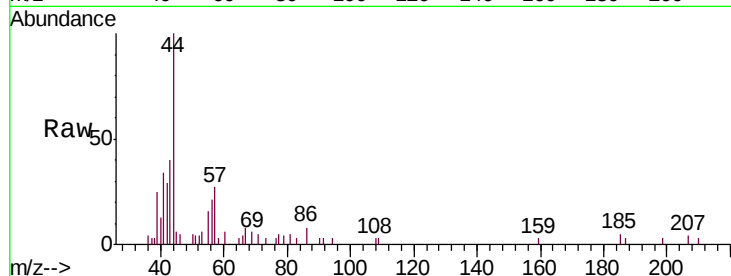
VF1112SBL01

Tgt Ion: 43 Resp: 2725

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.17 min Scan# 156

Delta R.T. -0.06 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Tgt Ion: 84 Resp: 5353

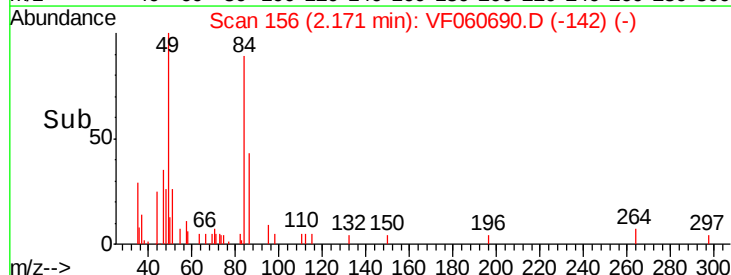
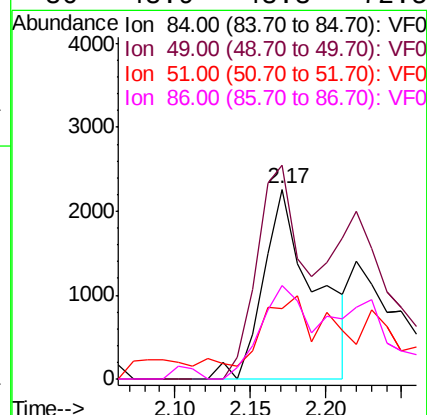
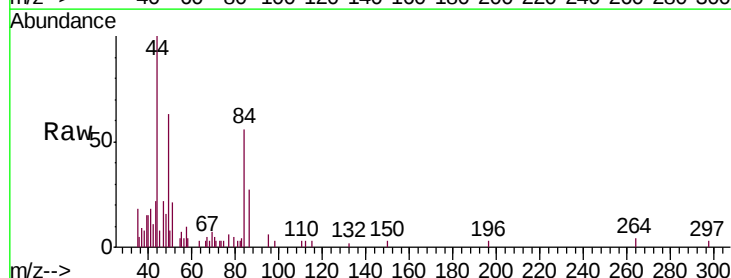
Ion Ratio Lower Upper

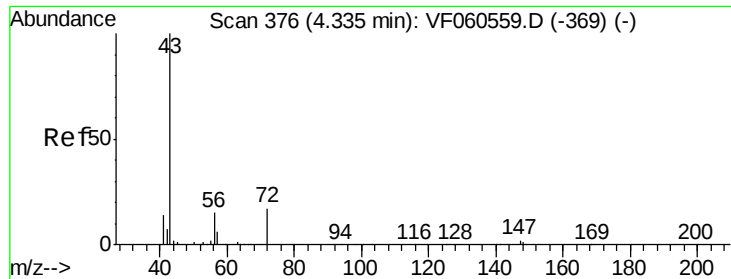
84 100

49 112.4 109.9 164.9

51 37.1 35.8 53.8

86 48.9 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Instrument :

MSVOA_F

ClientSampleId :

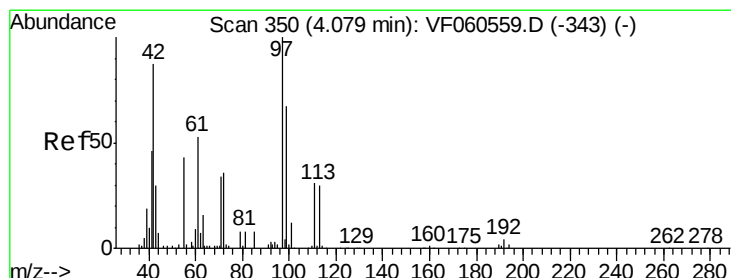
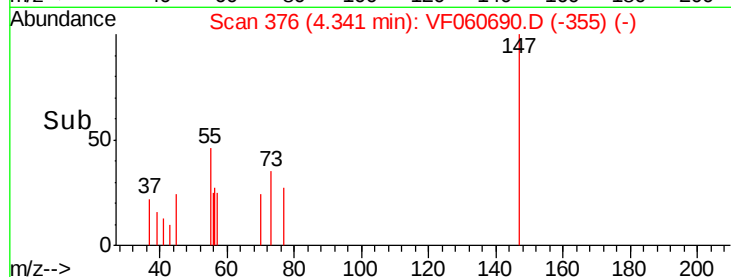
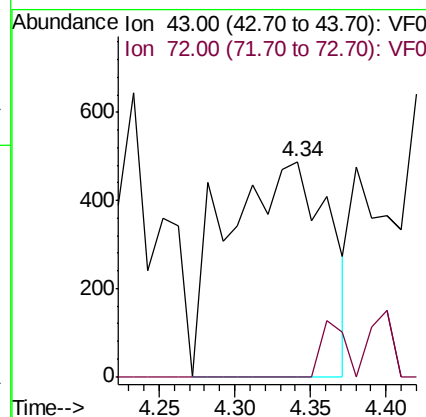
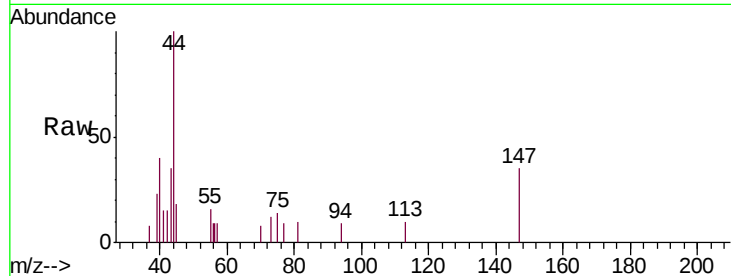
VF1112SBL01

Tgt Ion: 43 Resp: 2301

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.07 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

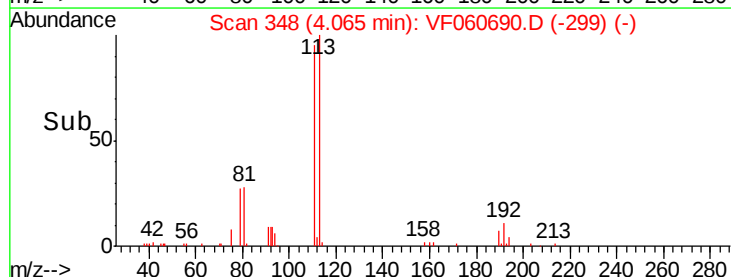
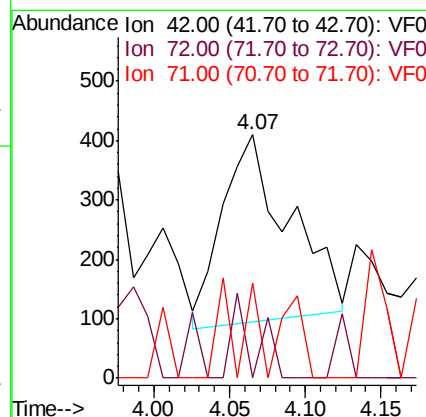
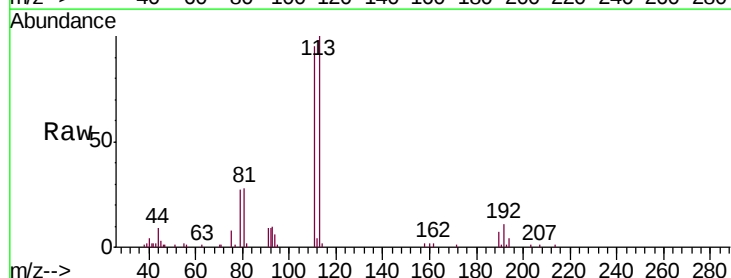
Tgt Ion: 42 Resp: 962

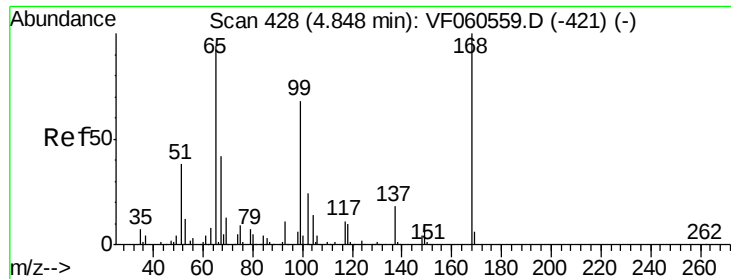
Ion Ratio Lower Upper

42 100

72 15.2 31.4 47.0#

71 10.3 31.8 47.6#





#33

1,2-Dichloroethane-d4

Concen: 56.848 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.02 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Instrument :

MSVOA_F

ClientSampleId :

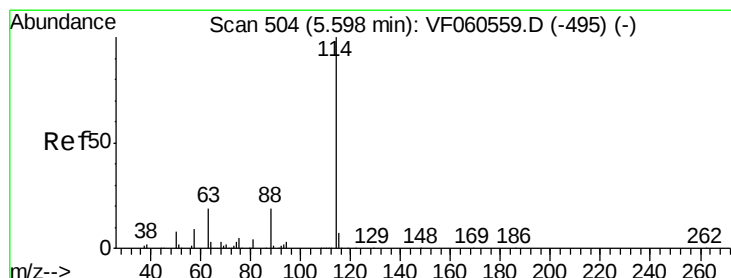
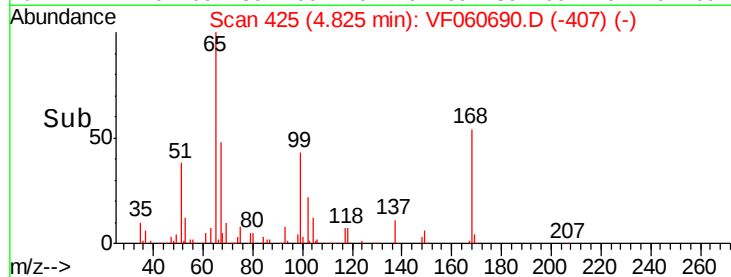
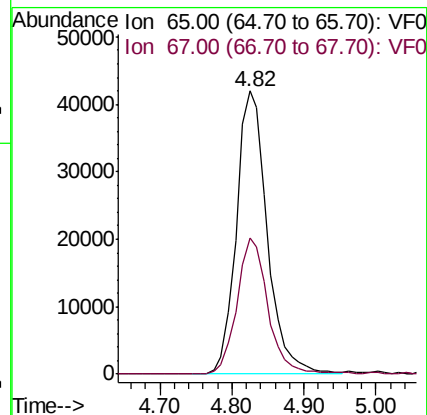
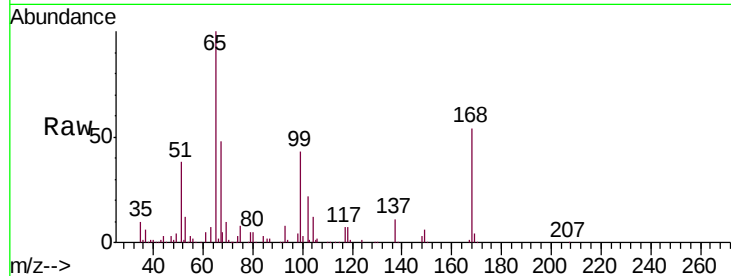
VF1112SBL01

Tgt Ion: 65 Resp: 125480

Ion Ratio Lower Upper

65 100

67 48.3 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

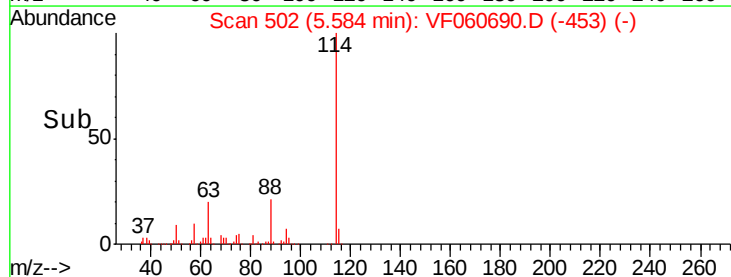
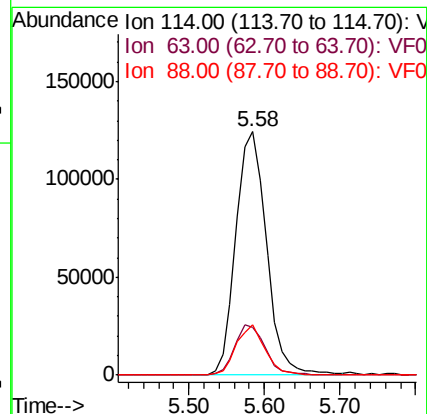
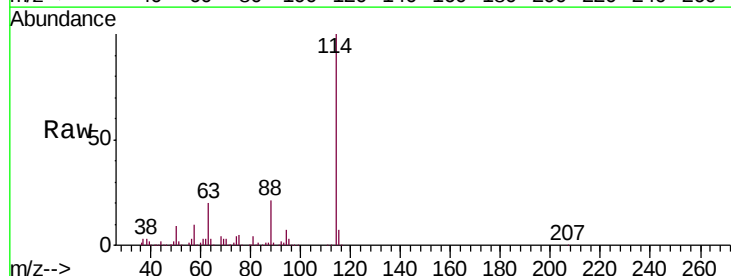
Tgt Ion: 114 Resp: 349532

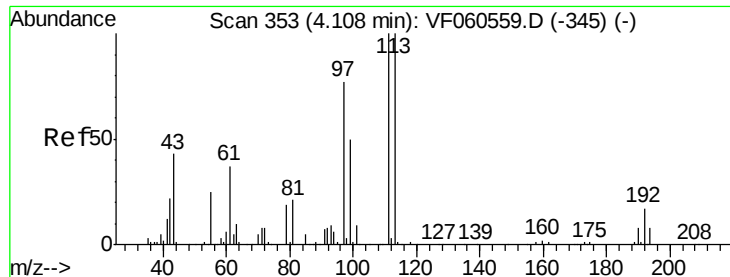
Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

88 20.6 0.0 38.2

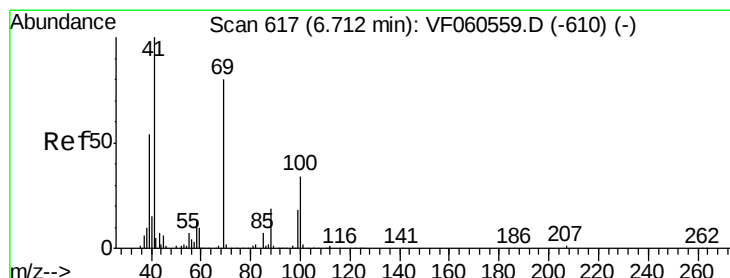
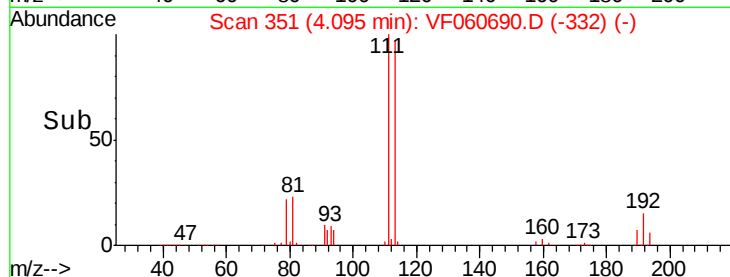
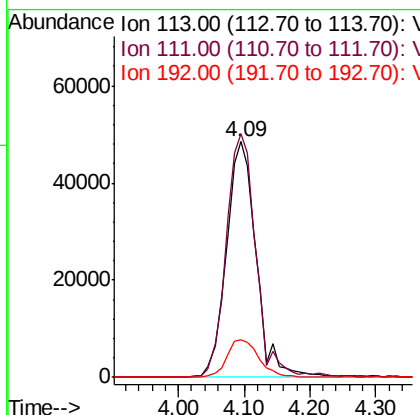
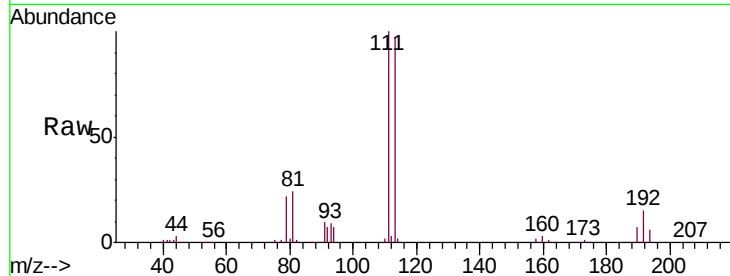




#35
 Dibromofluoromethane
 Concen: 56.712 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VF060690.D
 Acq: 12 Nov 2018 17:29

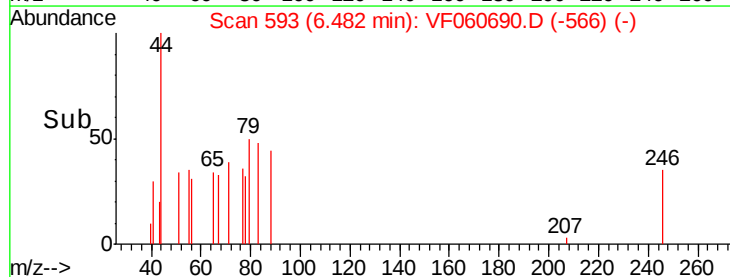
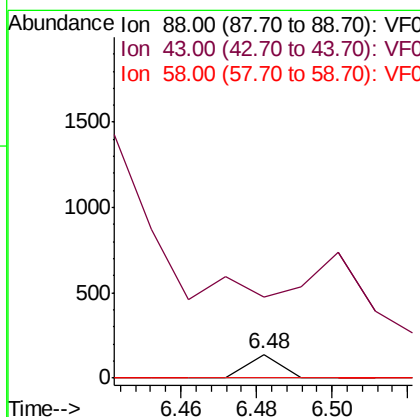
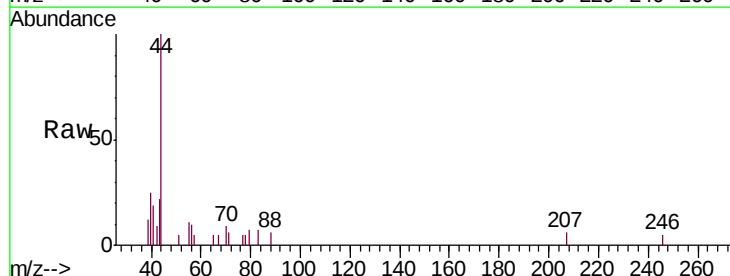
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBL01

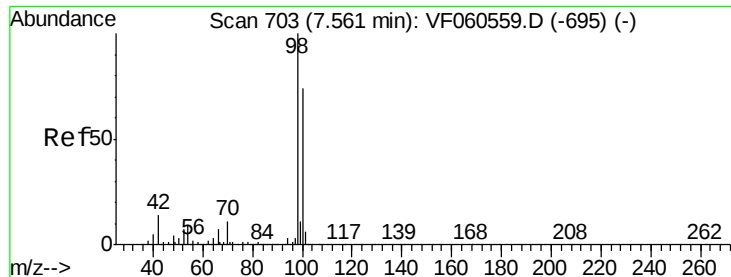
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	79.9	119.9
192	15.7	13.3	19.9



#49
 1,4-Dioxane
 Concen: 5.402 ug/l
 RT: 6.48 min Scan# 593
 Delta R.T. -0.23 min
 Lab File: VF060690.D
 Acq: 12 Nov 2018 17:29

Tgt Ion	Ratio	Lower	Upper
88	100		
43	338.3	61.2	91.8#
58	0.0	56.9	85.3#





#50

Toluene-d8

Concen: 49.725 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.02 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Instrument :

MSVOA_F

ClientSampleId :

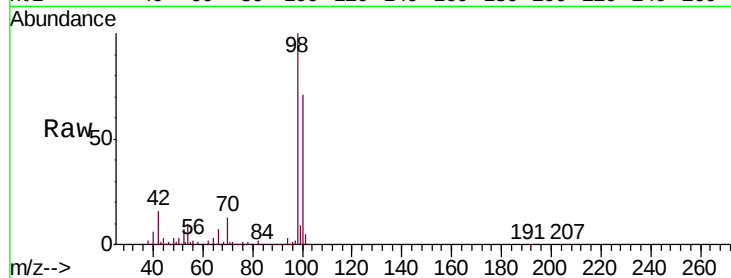
VF1112SBL01

Tgt Ion: 98 Resp: 397779

Ion Ratio Lower Upper

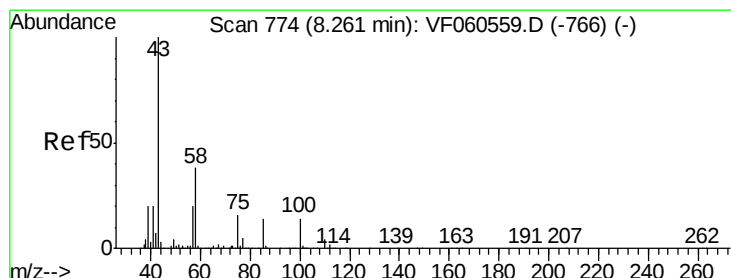
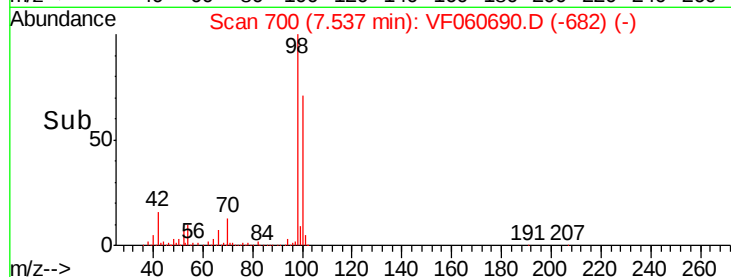
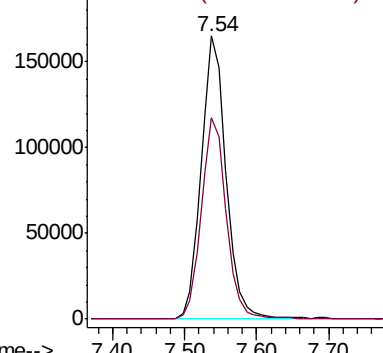
98 100

100 71.0 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 2.801 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF060690.D

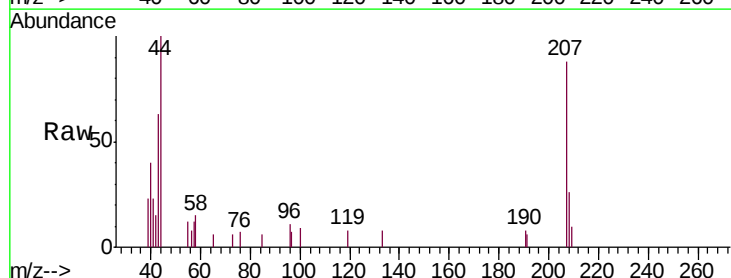
Acq: 12 Nov 2018 17:29

Tgt Ion: 43 Resp: 4402

Ion Ratio Lower Upper

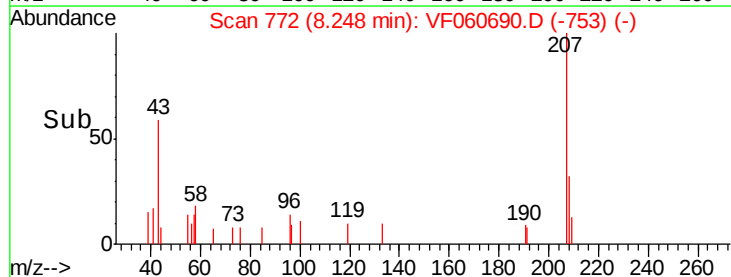
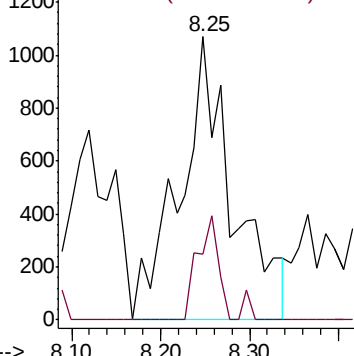
43 100

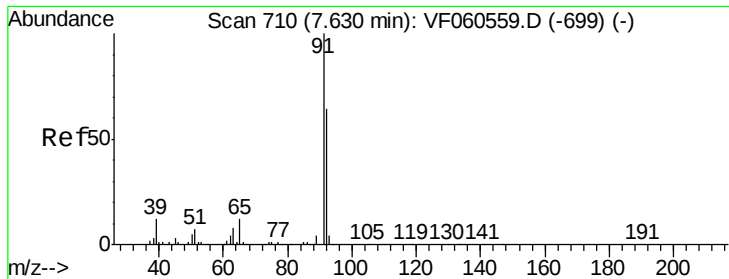
58 23.4 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.60 min Scan# 706

Delta R.T. -0.03 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Instrument :

MSVOA_F

ClientSampleId :

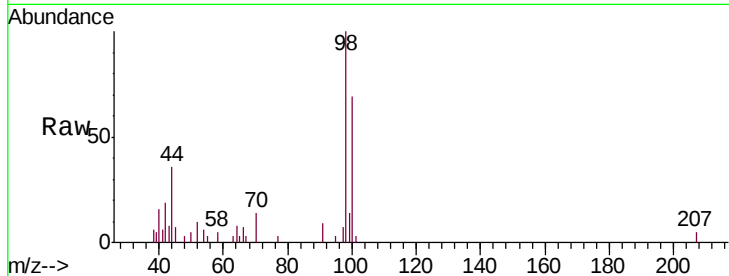
VF1112SBL01

Tgt Ion: 63 Resp: 64

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

7.60

120

100

80

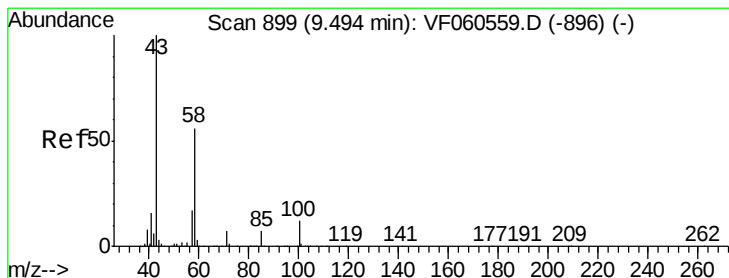
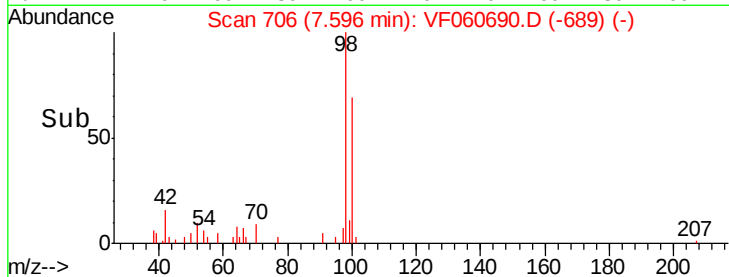
60

40

20

0

Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.48 min Scan# 897

Delta R.T. -0.01 min

Lab File: VF060690.D

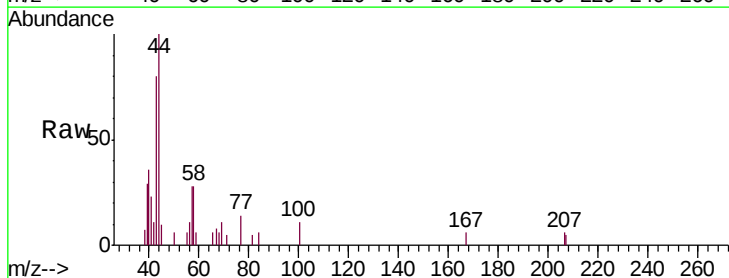
Acq: 12 Nov 2018 17:29

Tgt Ion: 43 Resp: 5324

Ion Ratio Lower Upper

43 100

58 35.4 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.48

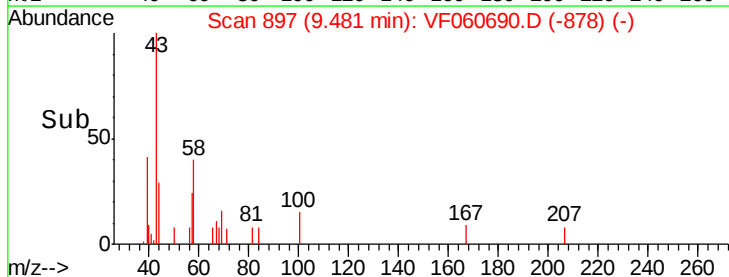
1500

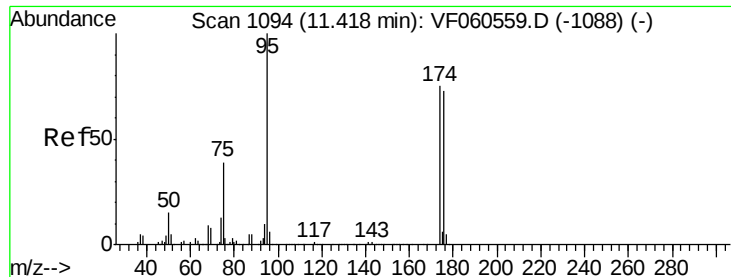
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 58.569 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBL01

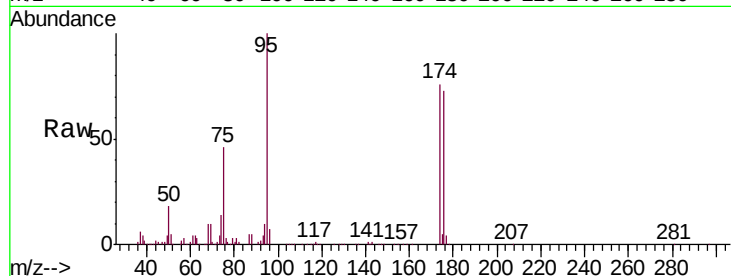
Tgt Ion: 95 Resp: 204943

Ion Ratio Lower Upper

95 100

174 75.5 0.0 149.0

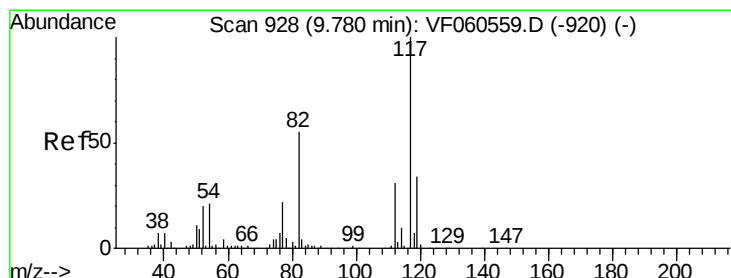
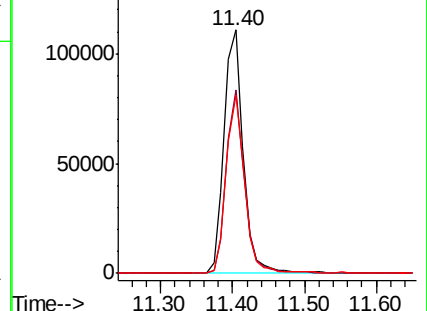
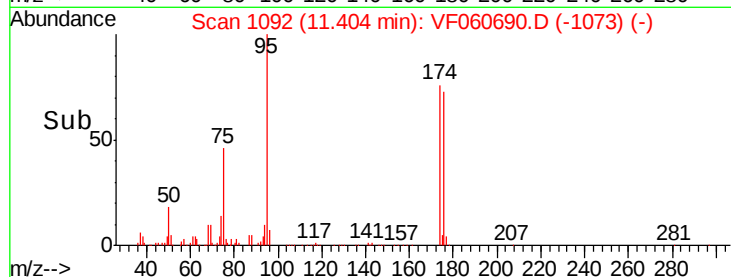
176 73.2 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 925

Delta R.T. -0.02 min

Lab File: VF060690.D

Acq: 12 Nov 2018 17:29

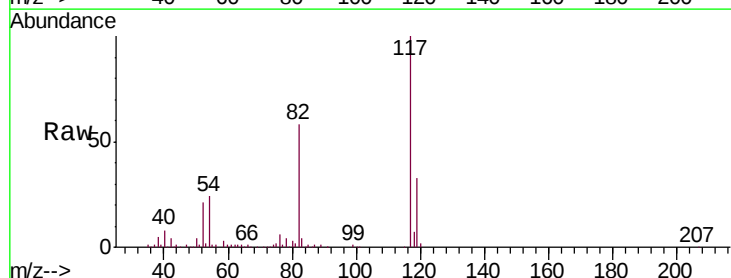
Tgt Ion: 117 Resp: 332100

Ion Ratio Lower Upper

117 100

82 58.5 43.9 65.9

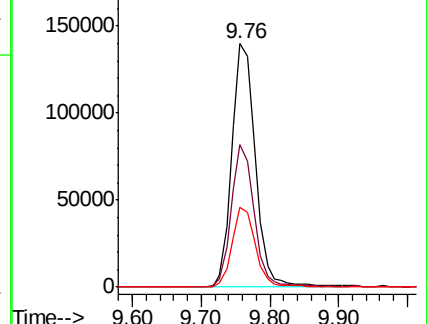
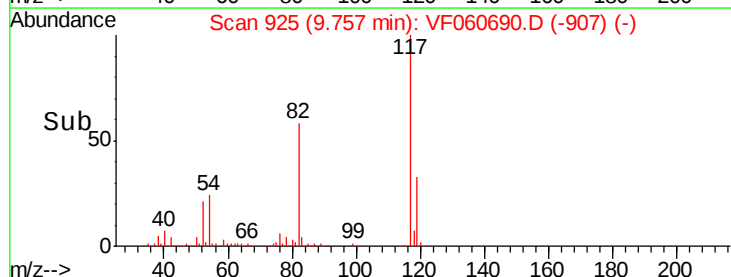
119 32.6 27.4 41.0

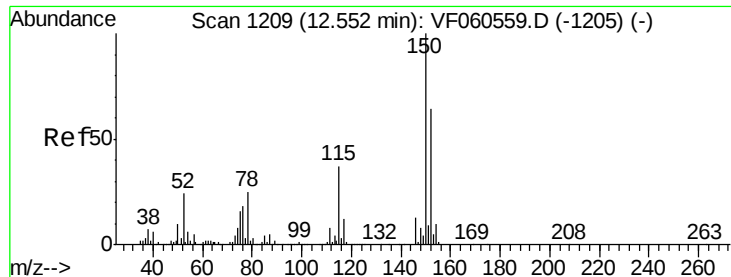


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



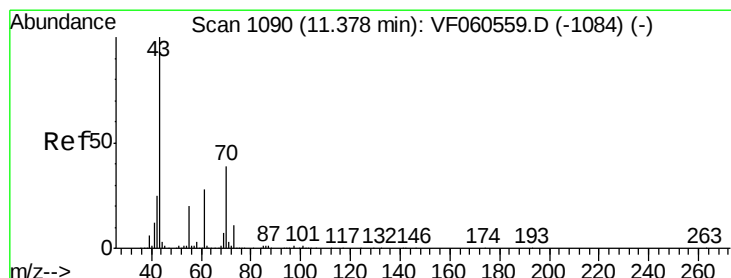
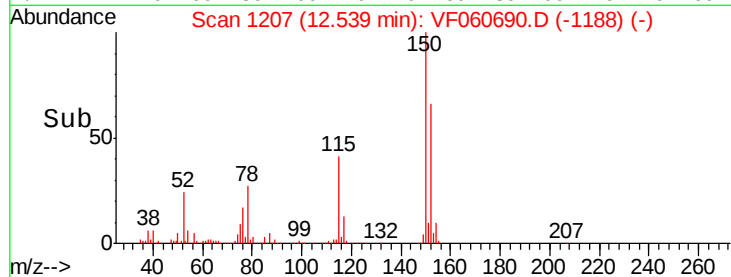
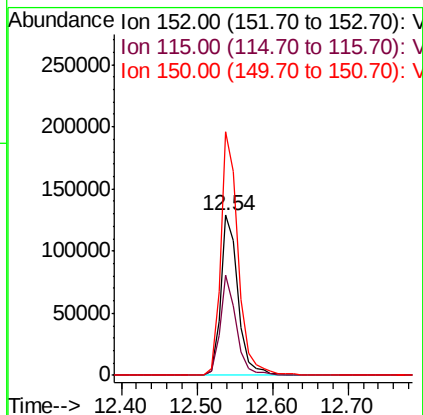
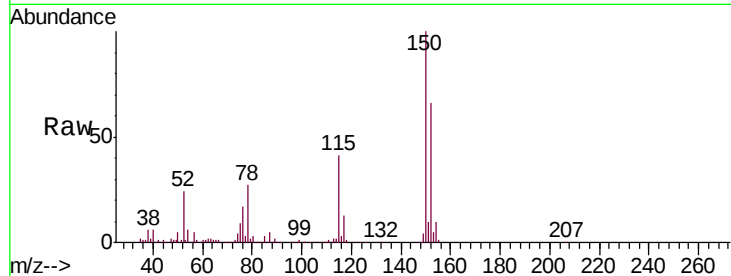


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF060690.D
Acq: 12 Nov 2018 17:29

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBL01

Tgt Ion:152 Resp: 206146
Ion Ratio Lower Upper
152 100
115 63.0 29.6 88.8
150 152.1 0.0 315.6



#74

N-ethyl acetate
Concen: Below Cal
RT: 11.36 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VF060690.D
Acq: 12 Nov 2018 17:29

Tgt Ion: 43 Resp: 1783
Ion Ratio Lower Upper
43 100
70 42.5 30.9 46.3
55 30.6 16.6 24.8#
61 0.0 22.0 33.0#

