

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110818\
 Data File : VF060652.D
 Acq On : 8 Nov 2018 16:23
 Operator : VA/AP
 Sample : J5768-03RE
 Misc : 7.36g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

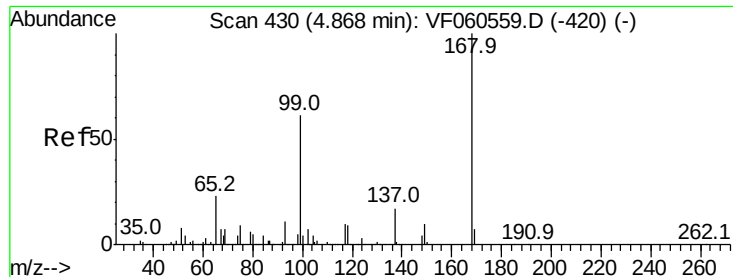
Quant Time: Nov 09 12:33:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.75	168	61	50.00	ug/l	-0.11
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.60
63) Chlorobenzene-d5	9.83	117	70	50.00	ug/l	0.05
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.55

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.71	65	62	100.60	ug/l	-0.13
Spiked Amount	50.000		Recovery	=	201.20%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.59	98	64	0.00	ug/l	0.03
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.33	95	63	0.00	ug/l	-0.08
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	69	113.328	ug/l #	41
3) Chloromethane	1.09	50	170	318.430	ug/l #	45
5) Bromomethane	1.30	94	62	224.526	ug/l #	1
6) Chloroethane	1.34	64	61	371.028	ug/l #	40
8) Diethyl Ether	1.48	74	70	410.195	ug/l	81
11) Tert butyl alcohol	2.47	59	77	2445.069	ug/l #	1
12) 1,1-Dichloroethene	1.77	96	148	333.976	ug/l #	1
13) Acrolein	2.06	56	335	19115.328	ug/l	92
14) Allyl chloride	2.05	41	502	693.765	ug/l #	51
15) Acrylonitrile	2.88	53	69	939.375	ug/l #	15
16) Acetone	2.19	43	640	4406.791	ug/l #	59
17) Carbon Disulfide	1.77	76	65	52.072	ug/l #	68
18) Methyl Acetate	2.26	43	435	1910.276	ug/l #	64
19) Methyl tert-butyl Ether	2.38	73	84	81.087	ug/l #	58
20) Methylene Chloride	2.29	84	65	163.337	ug/l #	3
21) trans-1,2-Dichloroethene	2.21	96	101	217.245	ug/l #	1
22) Diisopropyl ether	2.71	45	393	256.347	ug/l #	1
23) Vinyl Acetate	3.09	43	306	332.204	ug/l #	75
25) 2-Butanone	4.23	43	844	3507.627	ug/l #	56
26) 2,2-Dichloropropane	3.51	77	201	302.764	ug/l #	57
27) cis-1,2-Dichloroethene	3.48	96	88	99.153	ug/l	1
28) Bromochloromethane	3.64	49	78	140.085	ug/l #	13
29) Tetrahydrofuran	3.97	42	198	1916.370	ug/l #	36
30) Chloroform	3.60	83	127	90.475	ug/l	90
31) Cyclohexane	3.58	56	423	345.481	ug/l #	17
32) 1,1,1-Trichloroethane	3.96	97	69	70.380	ug/l #	41
66) 1,1,1,2-Tetrachloroethane	9.79	131	60	99.196	ug/l #	6
67) Ethyl Benzene	9.89	91	79	30.411	ug/l #	44

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.75 min Scan# 418

Delta R.T. -0.11 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Instrument :

MSVOA_F

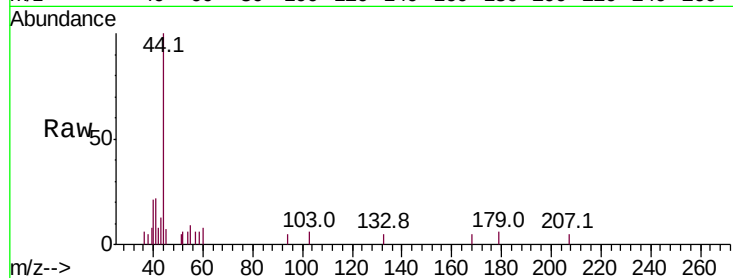
ClientSampled :

Tot Ion:168 Resp: 61

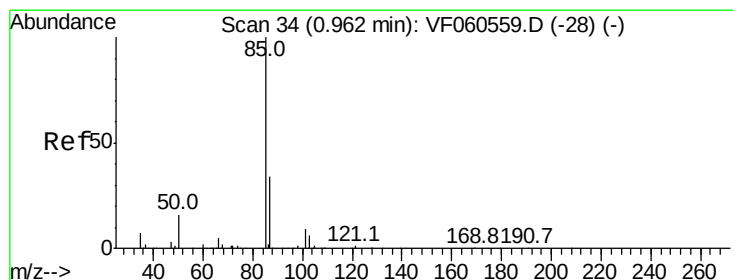
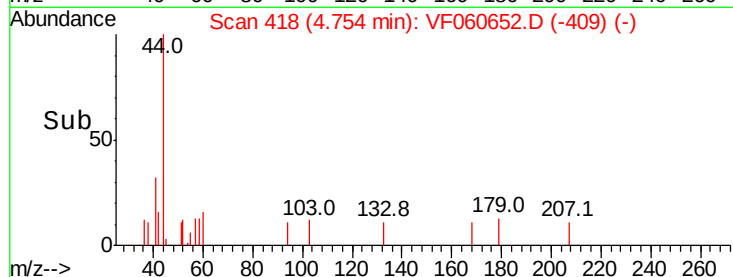
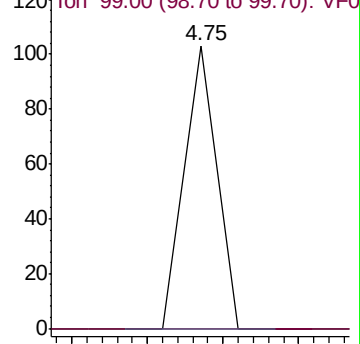
Ion Ratio Lower Upper

168 100

99 0.0 48.6 72.8#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 113.328 ug/l

RT: 0.99 min Scan# 36

Delta R.T. 0.02 min

Lab File: VF060652.D

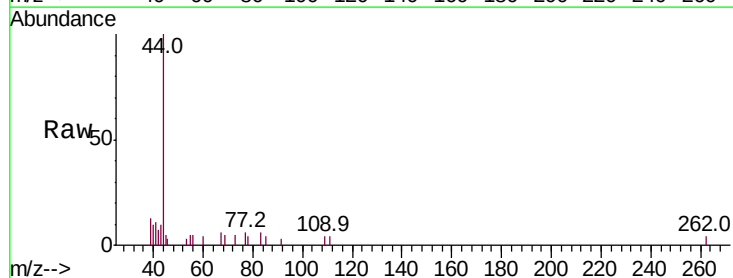
Acq: 8 Nov 2018 16:23

Tgt Ion: 85 Resp: 69

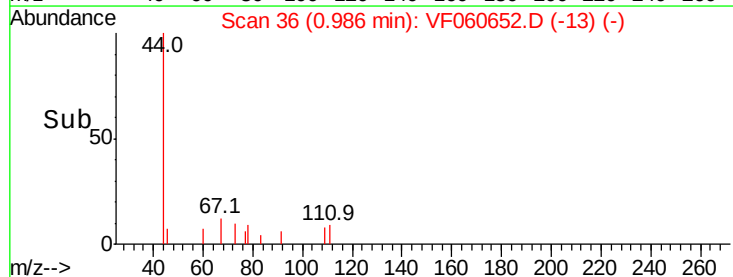
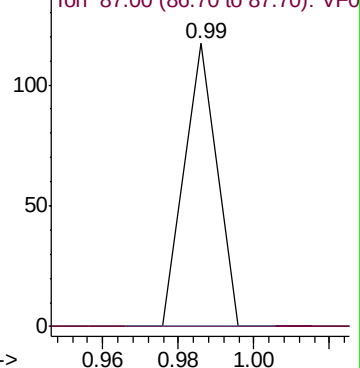
Ion Ratio Lower Upper

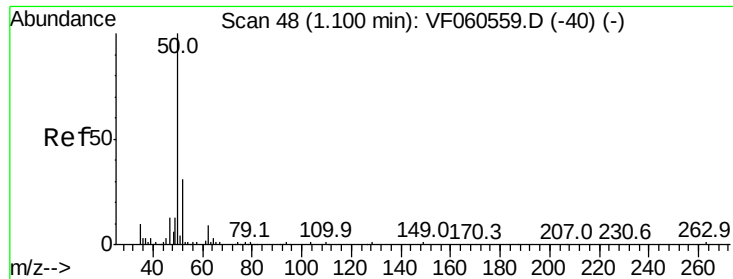
85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 318.430 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Instrument :

MSVOA_F

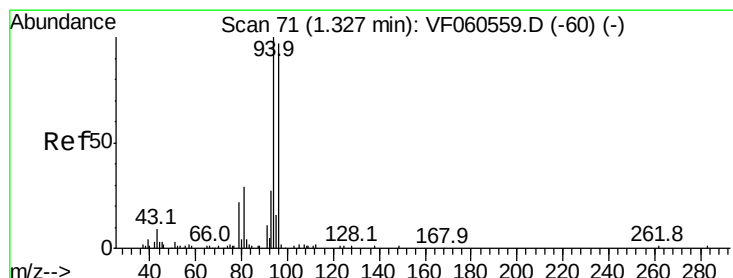
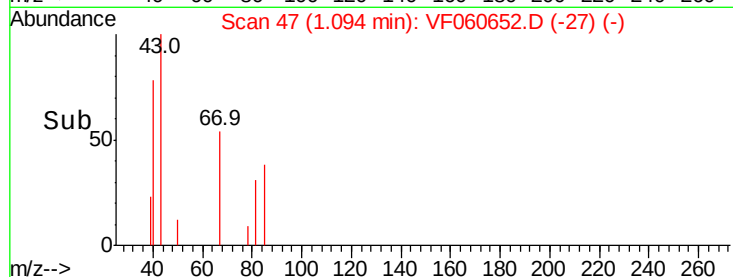
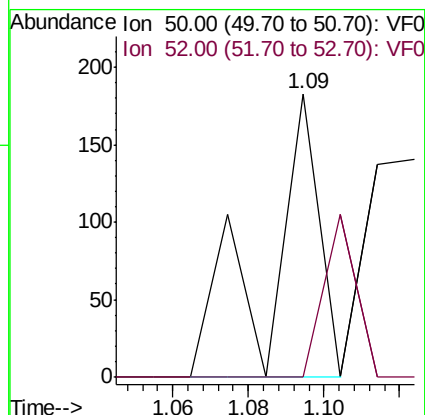
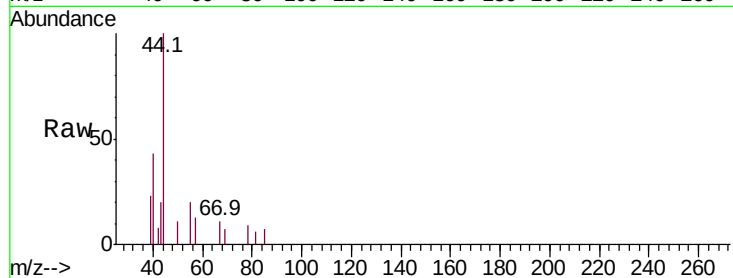
ClientSampleId :

Tot Ion: 50 Resp: 170

Ion Ratio Lower Upper

50 100

52 0.0 24.0 36.0#



#5

Bromomethane

Concen: 224.526 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.03 min

Lab File: VF060652.D

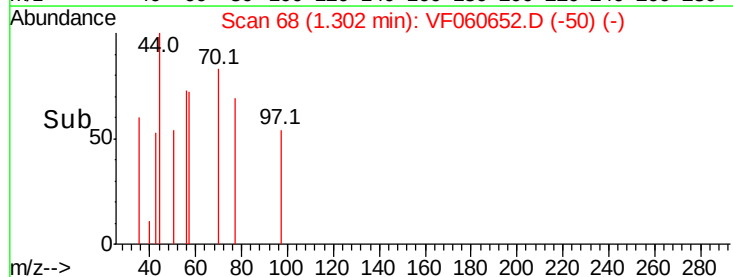
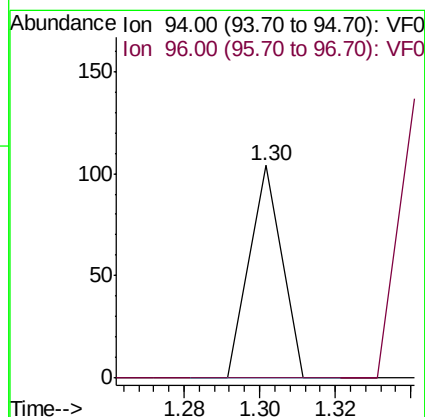
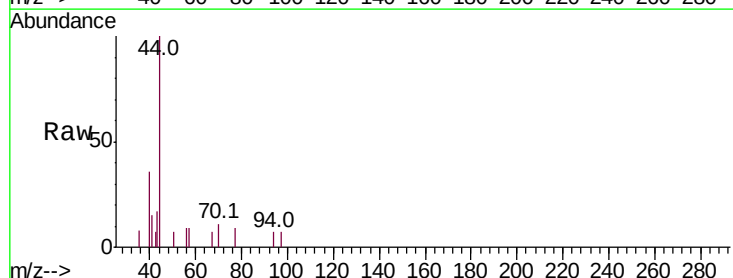
Acq: 8 Nov 2018 16:23

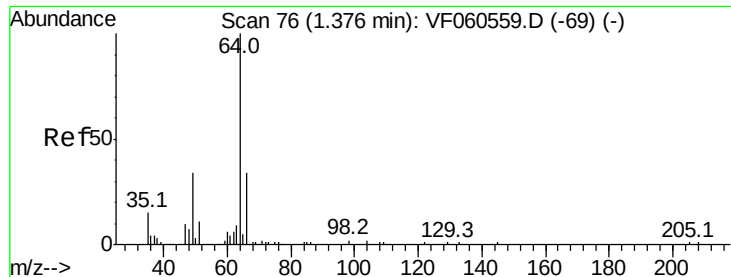
Tgt Ion: 94 Resp: 62

Ion Ratio Lower Upper

94 100

96 0.0 77.9 116.9#





#6

Chloroethane

Concen: 371.028 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.03 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Instrument :

MSVOA_F

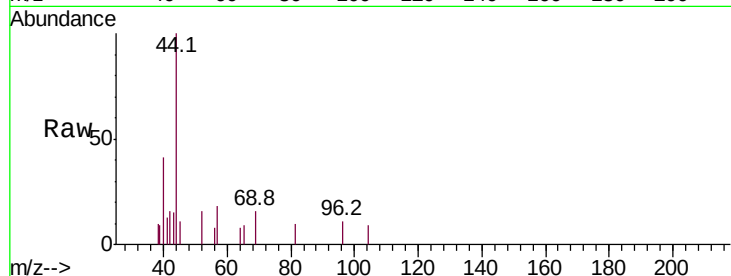
ClientSampled :

Tot Ion: 64 Resp: 61

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.34

100

80

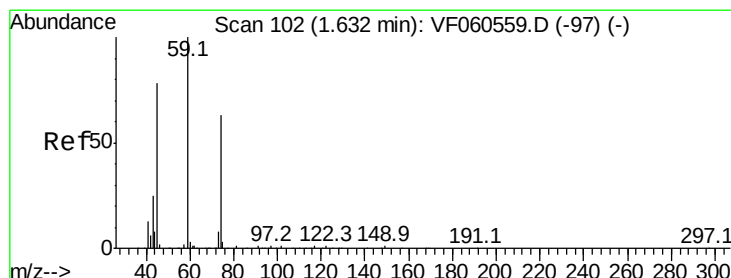
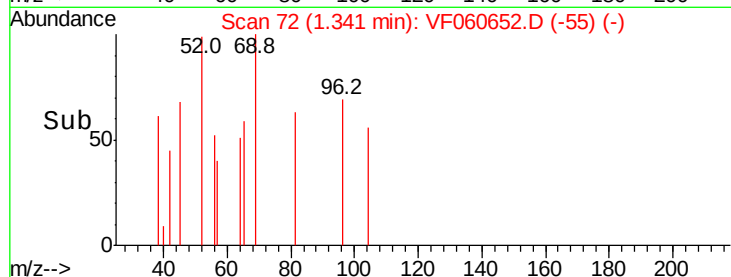
60

40

20

0

Time-->



#8

Diethyl Ether

Concen: 410.195 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.15 min

Lab File: VF060652.D

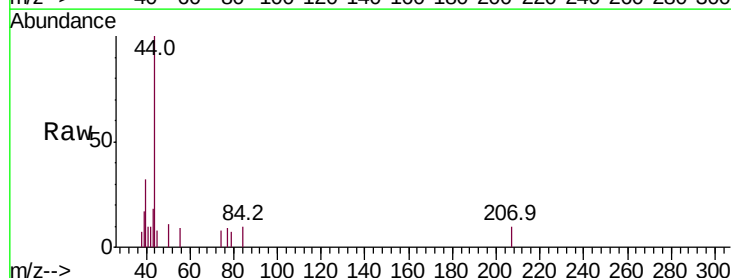
Acq: 8 Nov 2018 16:23

Tgt Ion: 74 Resp: 70

Ion Ratio Lower Upper

74 100

45 105.9 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

250

200

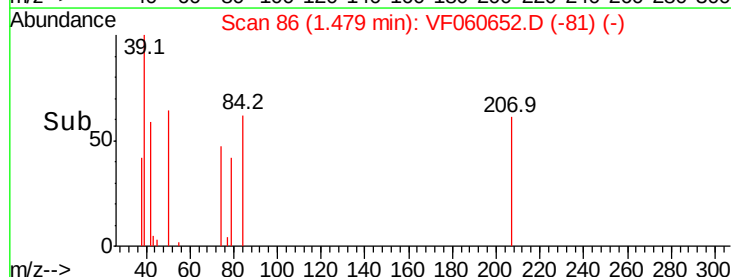
150

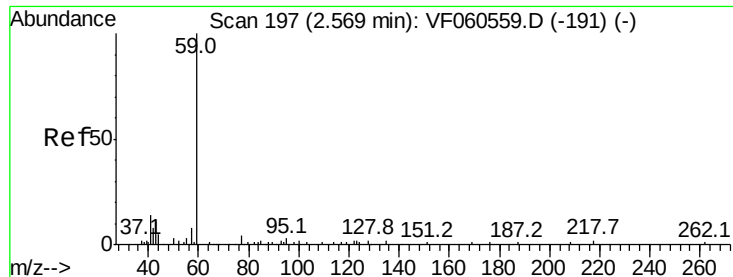
100

50

0

Time-->



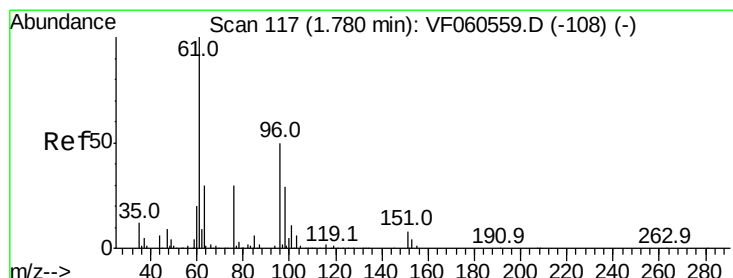
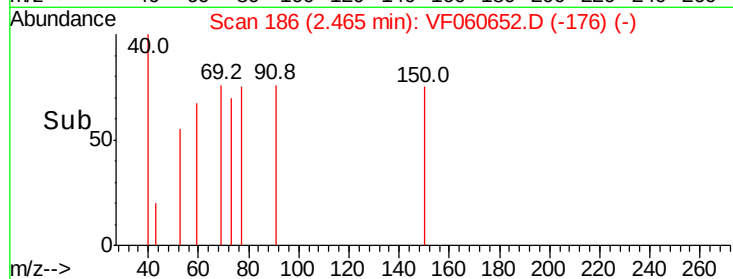
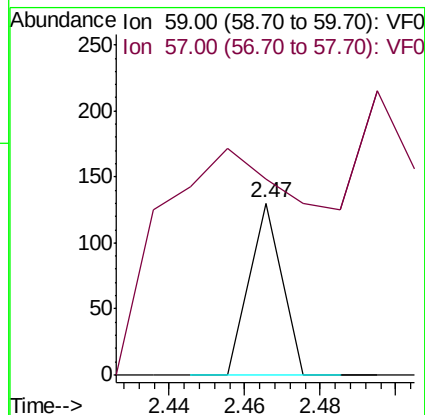
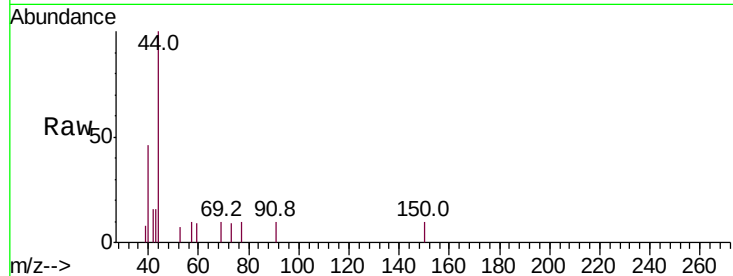


#11

Tert butyl alcohol
Concen: 2445.069 ug/l
RT: 2.47 min Scan# 186
Delta R.T. -0.10 min
Lab File: VF060652.D
Acq: 8 Nov 2018 16:23

Instrument :
MSVOA_F
ClientSampled :

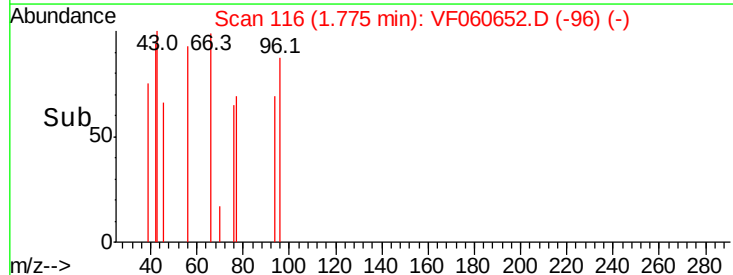
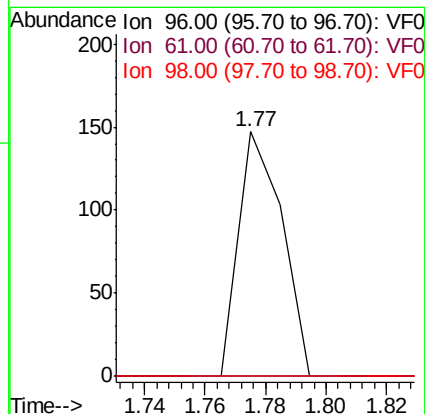
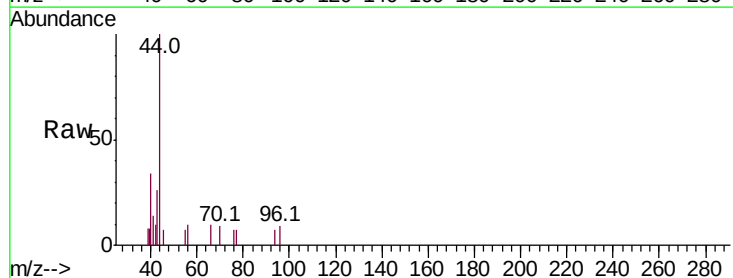
Tot Ion: 59 Resp: 77
Ion Ratio Lower Upper
59 100
57 113.8 19.0 28.4#

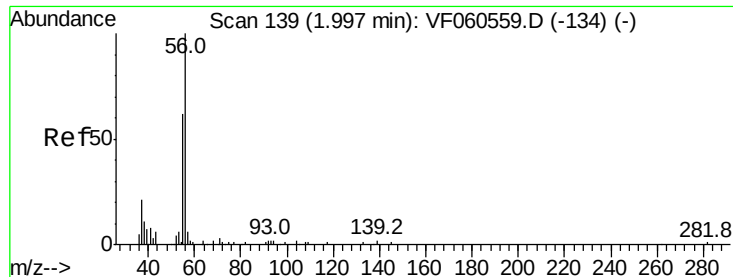


#12

1,1-Dichloroethene
Concen: 333.976 ug/l
RT: 1.77 min Scan# 116
Delta R.T. -0.01 min
Lab File: VF060652.D
Acq: 8 Nov 2018 16:23

Tgt Ion: 96 Resp: 148
Ion Ratio Lower Upper
96 100
61 0.0 158.1 237.1#
98 0.0 47.0 70.6#





#13

Acrolein

Concen: 19115.328 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.06 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

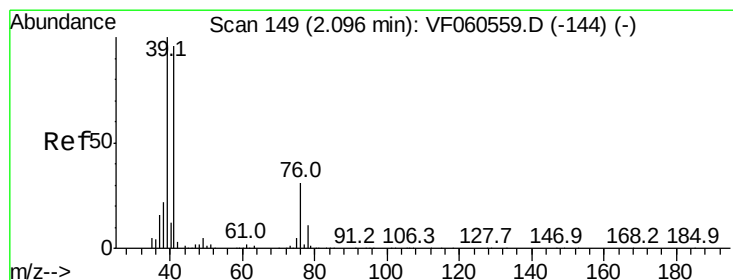
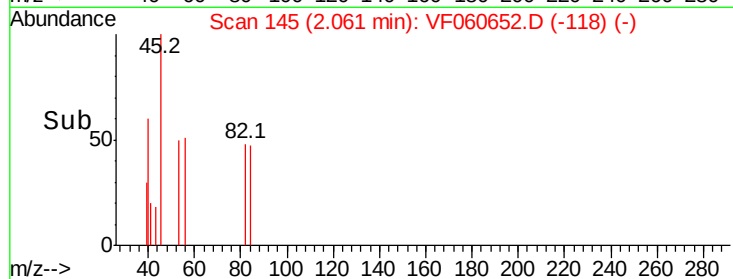
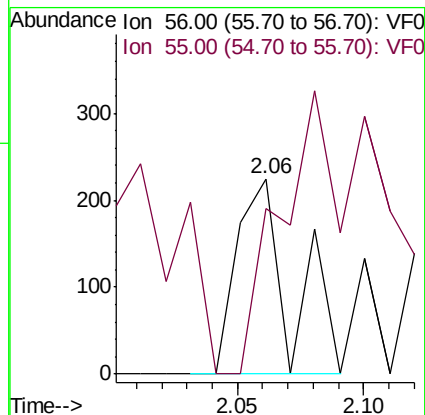
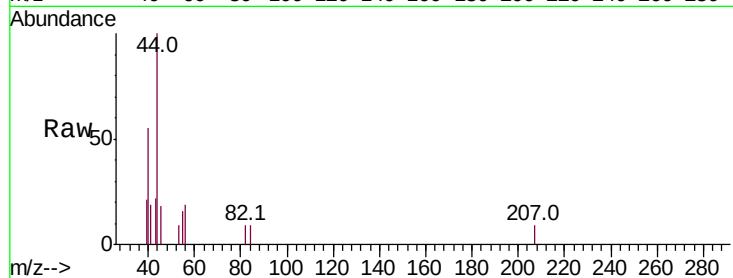
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 335

Ion Ratio Lower Upper

56 100

55 84.4 61.8 92.6



#14

Allyl chloride

Concen: 693.765 ug/l

RT: 2.05 min Scan# 144

Delta R.T. -0.04 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

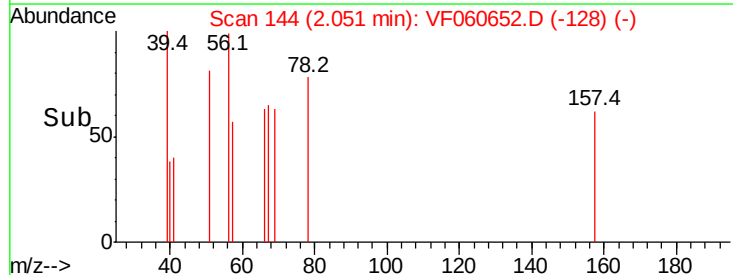
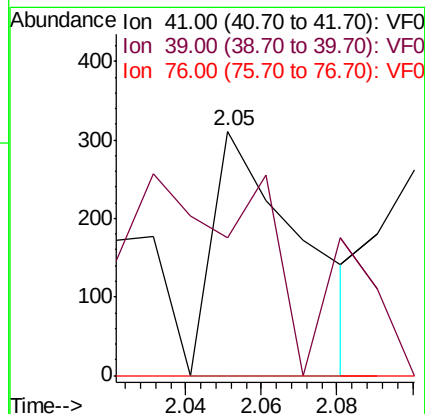
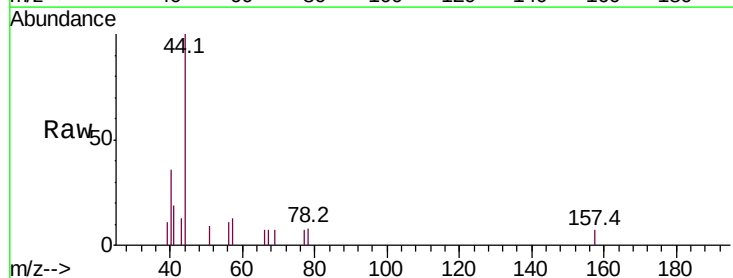
Tgt Ion: 41 Resp: 502

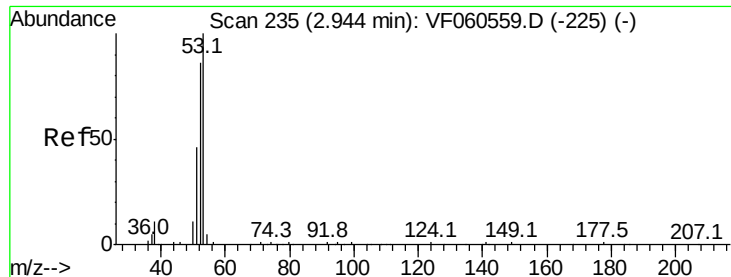
Ion Ratio Lower Upper

41 100

39 56.3 82.6 124.0#

76 0.0 26.7 40.1#





#15

Acrylonitrile

Concen: 939.375 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.06 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Instrument :
MSVOA_F
ClientSampled :

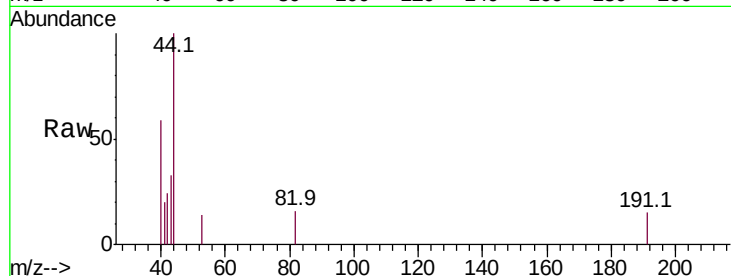
Tot Ion: 53 Resp: 69

Ion Ratio Lower Upper

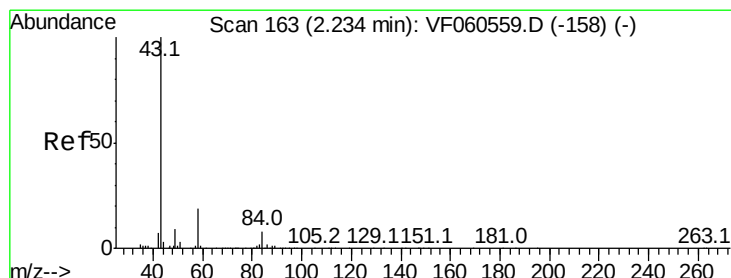
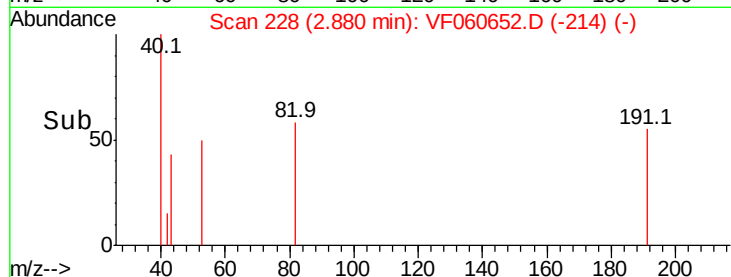
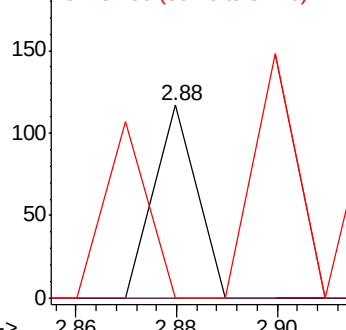
53 100

52 0.0 68.5 102.7#

51 0.0 38.2 57.2#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 4406.791 ug/l

RT: 2.19 min Scan# 158

Delta R.T. -0.04 min

Lab File: VF060652.D

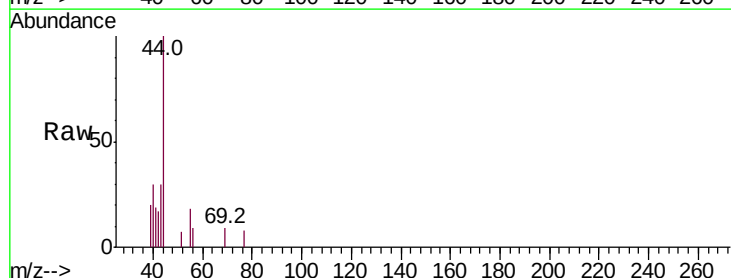
Acq: 8 Nov 2018 16:23

Tgt Ion: 43 Resp: 640

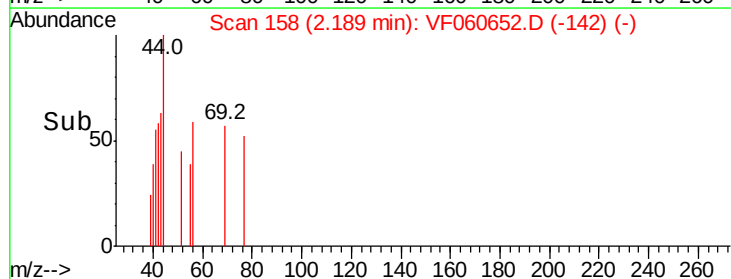
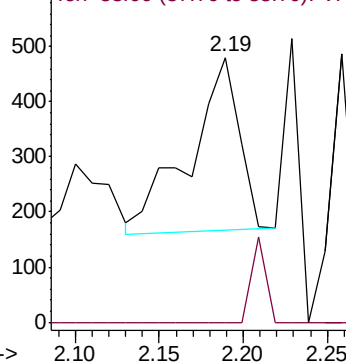
Ion Ratio Lower Upper

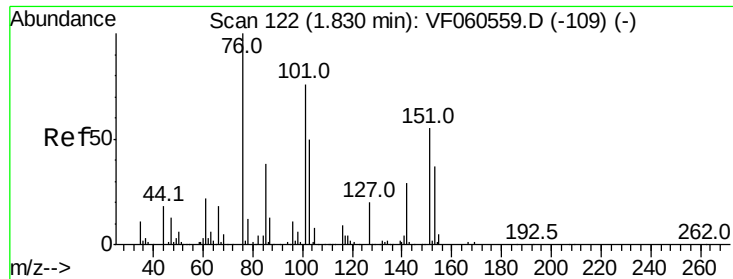
43 100

58 0.0 14.6 22.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

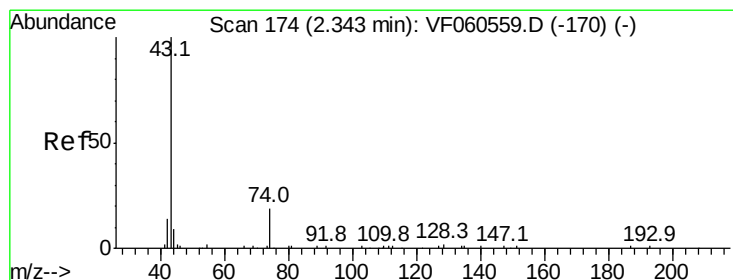
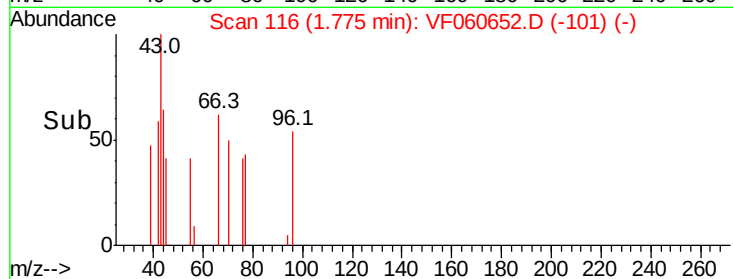
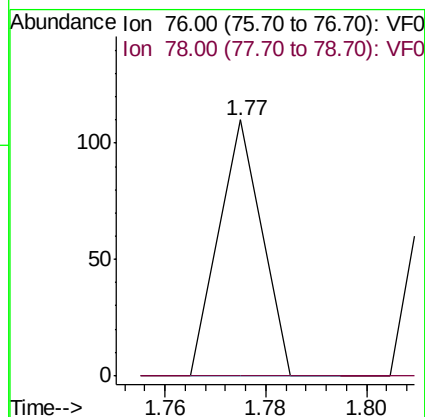
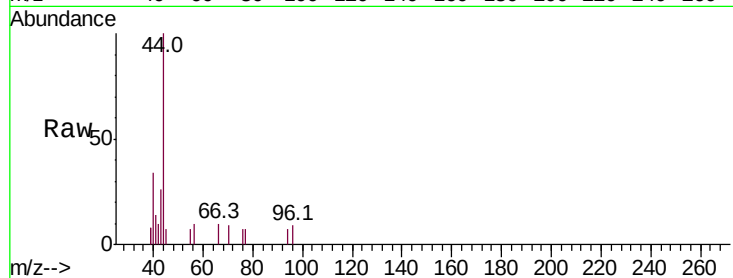




#17
Carbon Disulfide
Concen: 52.072 ug/l
RT: 1.77 min Scan# 116
Delta R.T. -0.05 min
Lab File: VF060652.D
Acq: 8 Nov 2018 16:23

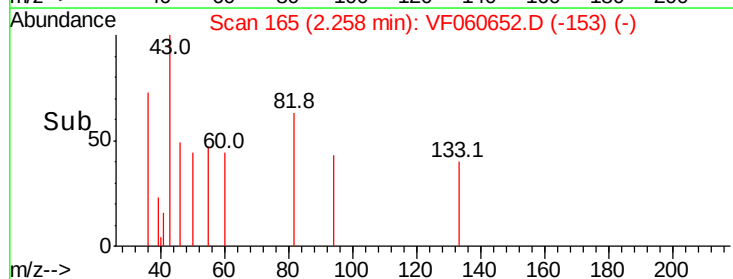
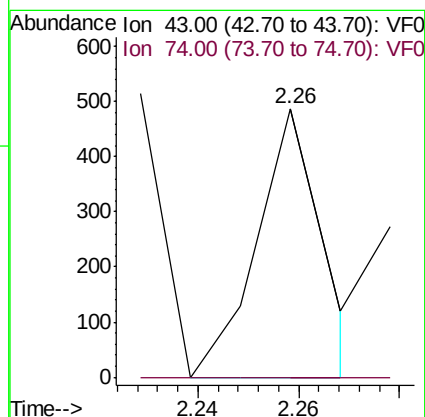
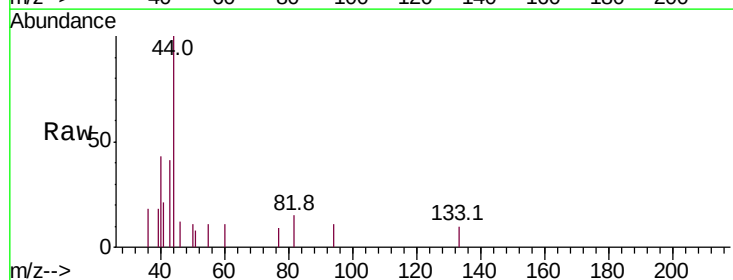
Instrument :
MSVOA_F
ClientSampleId :

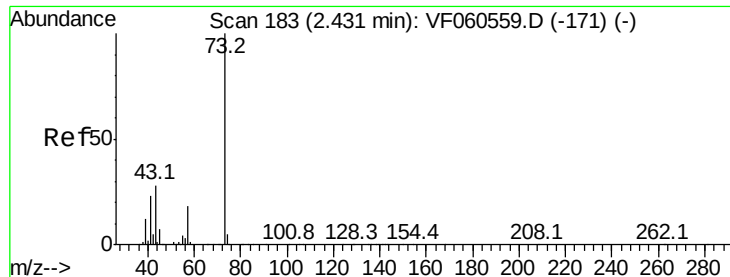
Tot Ion: 76 Resp: 65
Ion Ratio Lower Upper
76 100
78 0.0 9.9 14.9#



#18
Methyl Acetate
Concen: 1910.276 ug/l
RT: 2.26 min Scan# 165
Delta R.T. -0.08 min
Lab File: VF060652.D
Acq: 8 Nov 2018 16:23

Tgt Ion: 43 Resp: 435
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



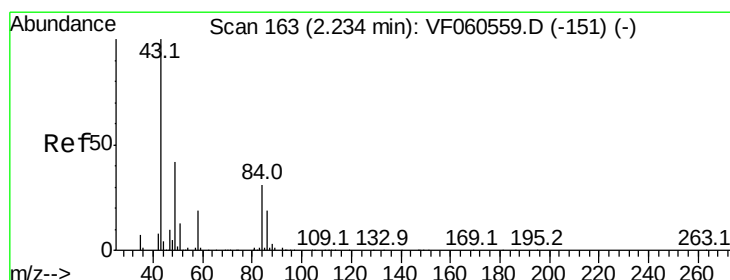
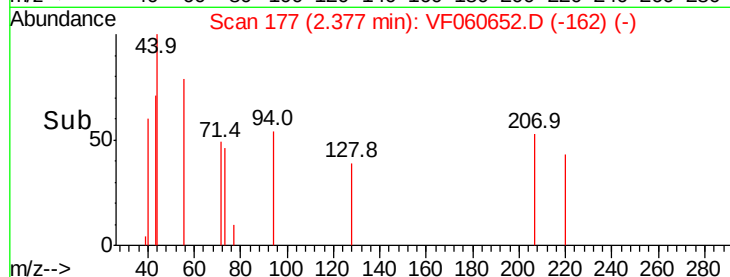
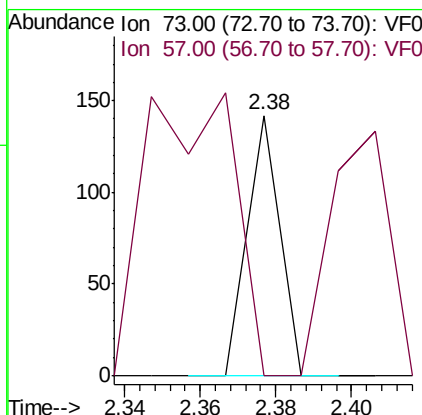
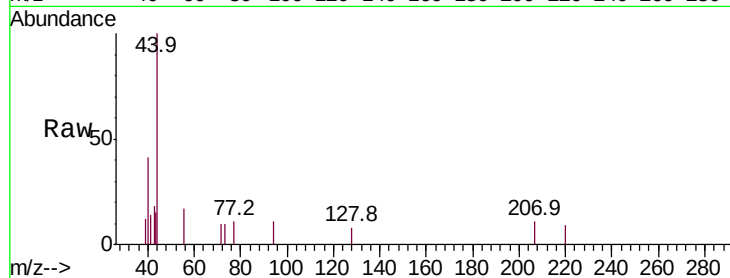


#19

Methyl tert-butyl Ether
 Concen: 81.087 ug/l
 RT: 2.38 min Scan# 177
 Delta R.T. -0.05 min
 Lab File: VF060652.D
 Acq: 8 Nov 2018 16:23

Instrument :
 MSVOA_F
 ClientSampled :

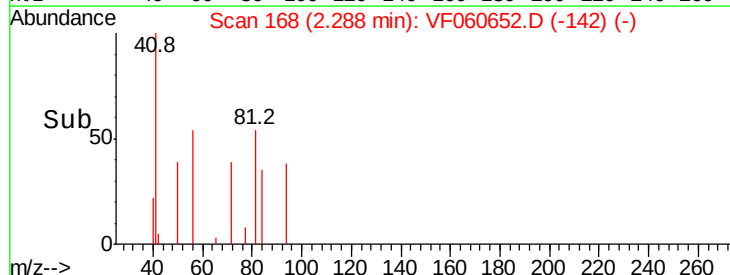
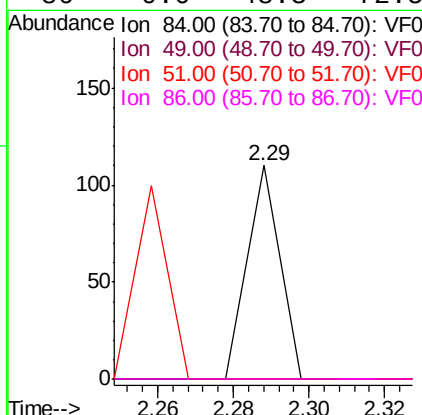
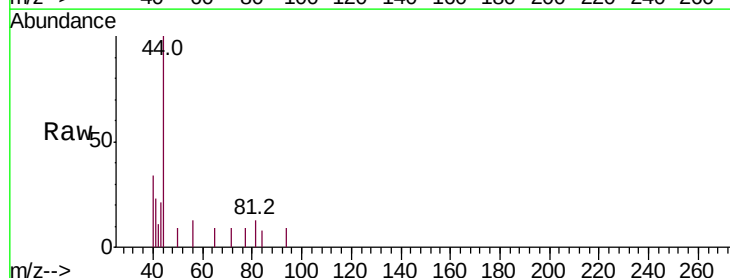
Tot Ion: 73 Resp: 84
 Ion Ratio Lower Upper
 73 100
 57 0.0 15.4 23.0#

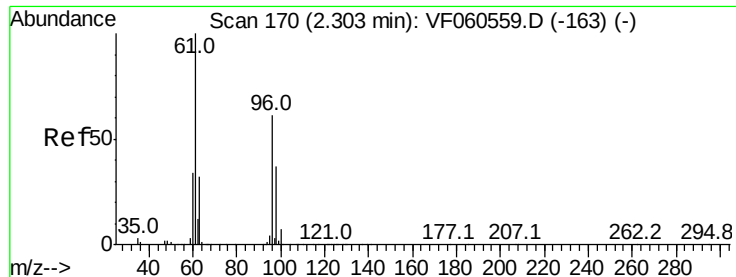


#20

Methylene Chloride
 Concen: 163.337 ug/l
 RT: 2.29 min Scan# 168
 Delta R.T. 0.05 min
 Lab File: VF060652.D
 Acq: 8 Nov 2018 16:23

Tgt Ion: 84 Resp: 65
 Ion Ratio Lower Upper
 84 100
 49 0.0 109.9 164.9#
 51 0.0 35.8 53.8#
 86 0.0 48.3 72.5#





#21

trans-1,2-Dichloroethene

Concen: 217.245 ug/l

RT: 2.21 min Scan# 160

Delta R.T. -0.09 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :

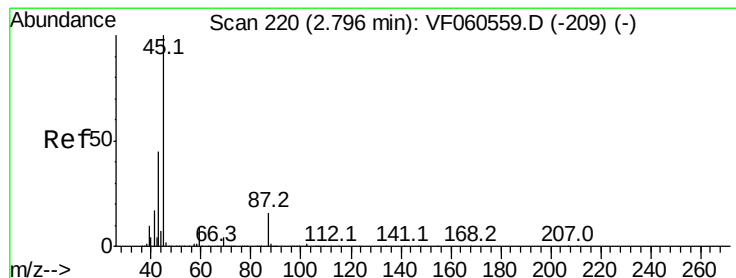
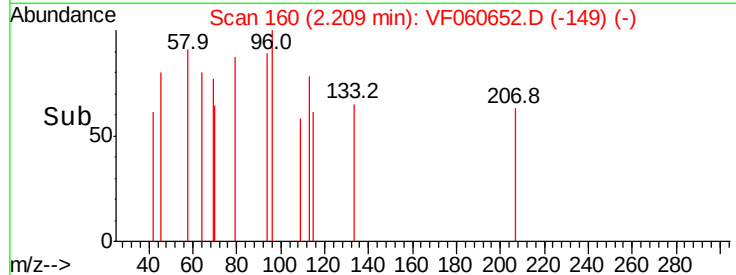
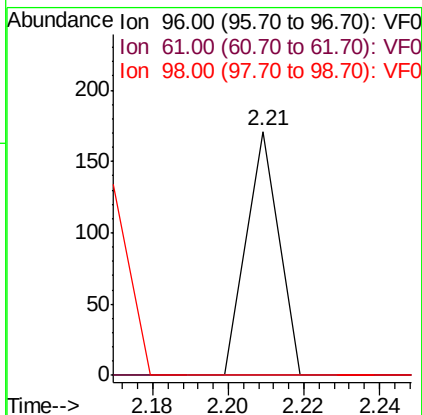
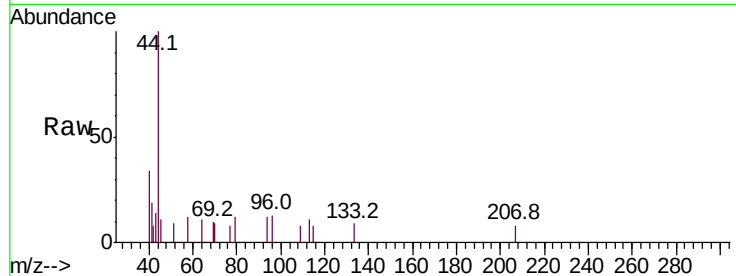
Tot Ion: 96 Resp: 101

Ion Ratio Lower Upper

96 100

61 0.0 131.3 196.9#

98 0.0 48.6 73.0#



#22

Diisopropyl ether

Concen: 256.347 ug/l

RT: 2.71 min Scan# 211

Delta R.T. -0.08 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Tgt Ion: 45 Resp: 393

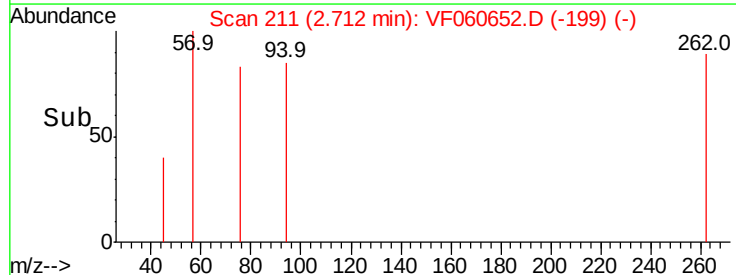
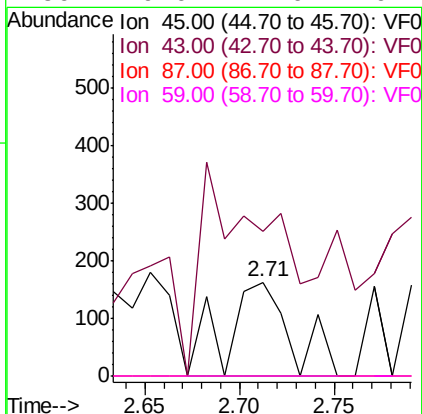
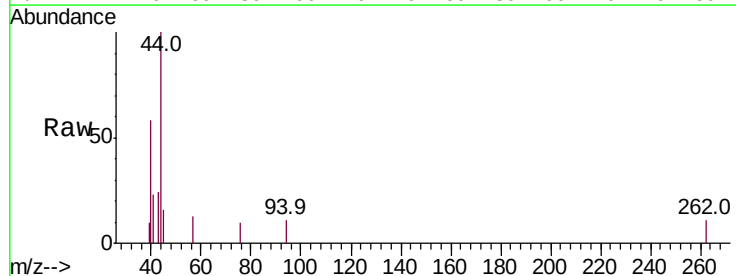
Ion Ratio Lower Upper

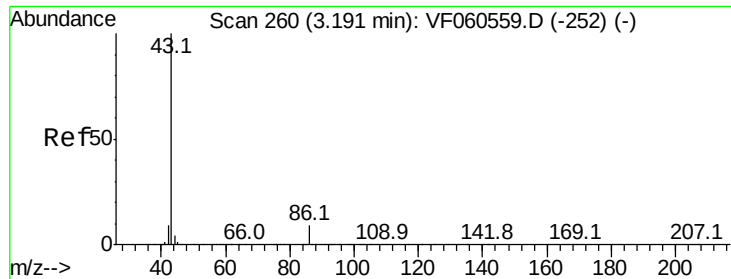
45 100

43 154.0 38.1 57.1#

87 0.0 12.7 19.1#

59 0.0 7.0 10.4#

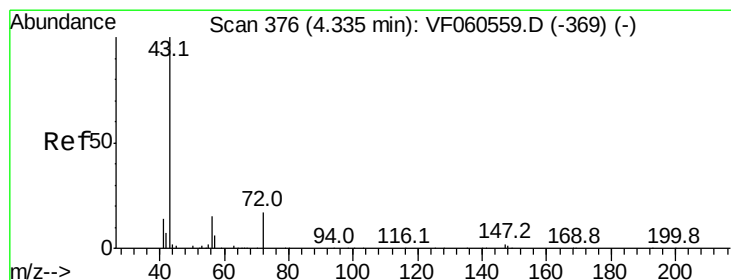
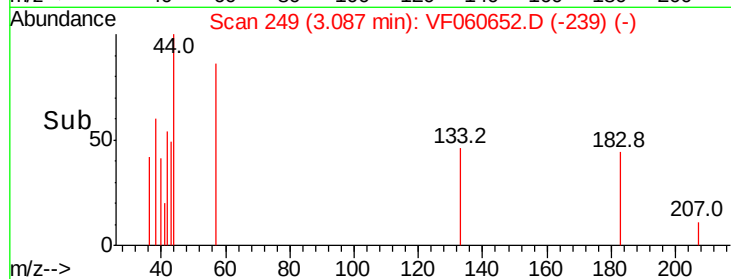
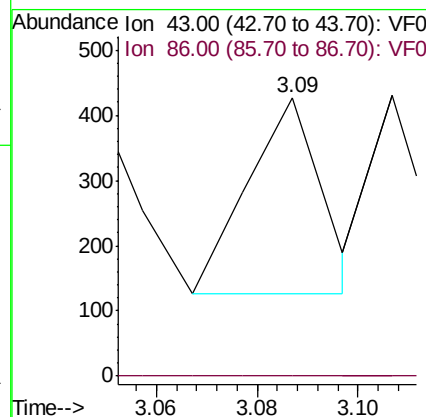
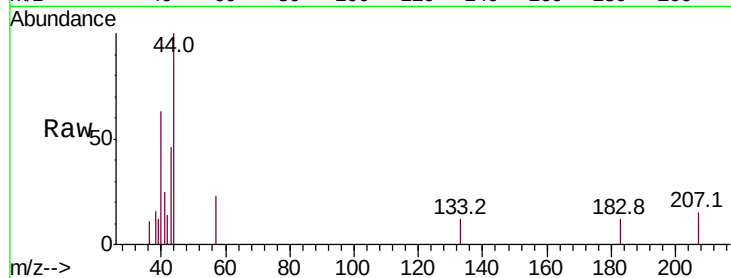




#23
 Vinyl Acetate
 Concen: 332.204 ug/l
 RT: 3.09 min Scan# 249
 Delta R.T. -0.10 min
 Lab File: VF060652.D
 Acq: 8 Nov 2018 16:23

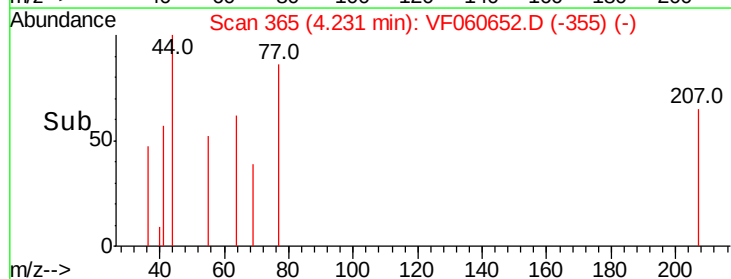
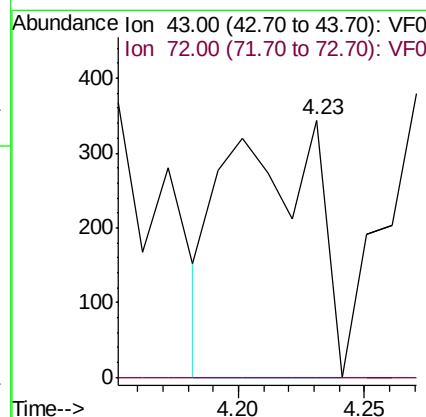
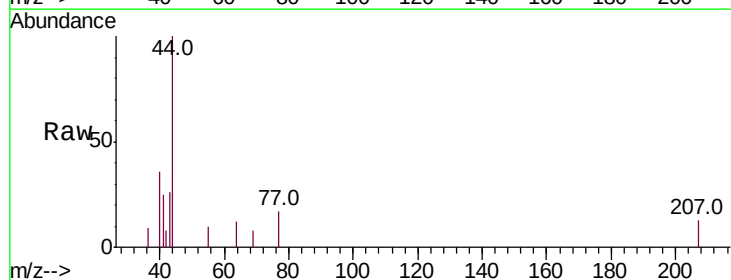
Instrument :
 MSVOA_F
 ClientSampled :

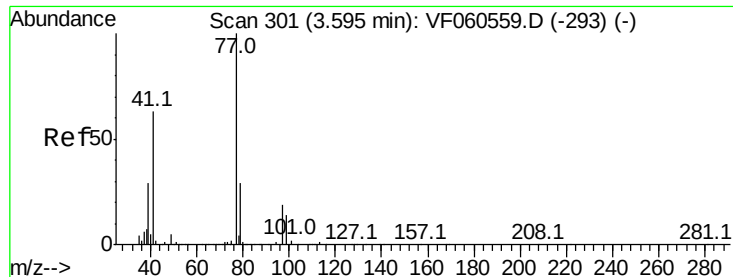
Tot Ion: 43 Resp: 306
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#25
 2-Butanone
 Concen: 3507.627 ug/l
 RT: 4.23 min Scan# 365
 Delta R.T. -0.10 min
 Lab File: VF060652.D
 Acq: 8 Nov 2018 16:23

Tgt Ion: 43 Resp: 844
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.2 24.2#





#26

2,2-Dichloropropane

Concen: 302.764 ug/l

RT: 3.51 min Scan# 292

Delta R.T. -0.08 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Instrument :

MSVOA_F

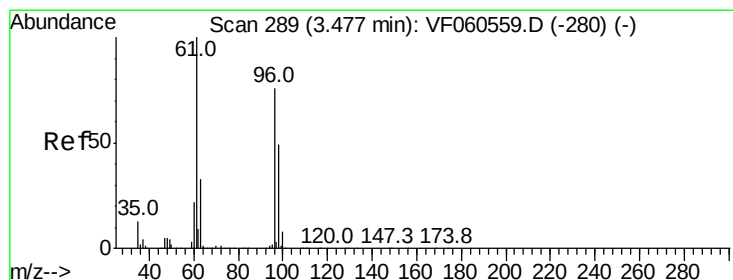
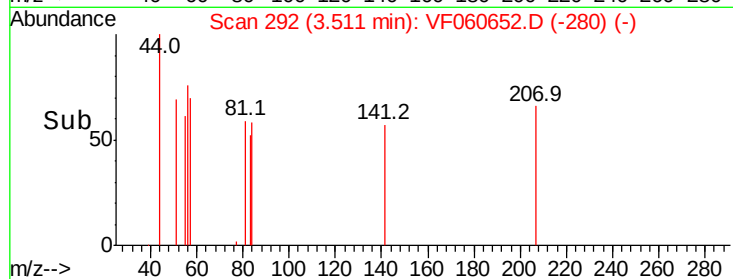
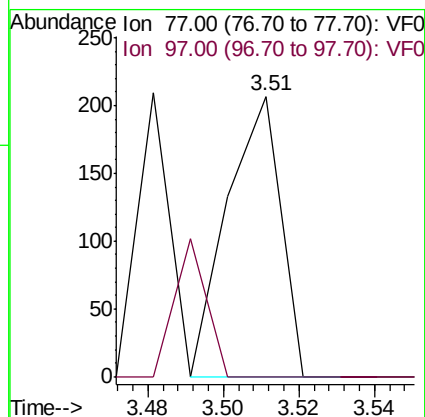
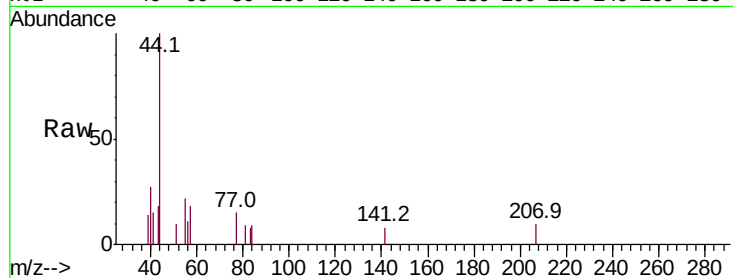
ClientSampleId :

Tot Ion: 77 Resp: 201

Ion Ratio Lower Upper

77 100

97 0.0 9.8 29.3#



#27

cis-1,2-Dichloroethene

Concen: 99.153 ug/l

RT: 3.48 min Scan# 289

Delta R.T. 0.00 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

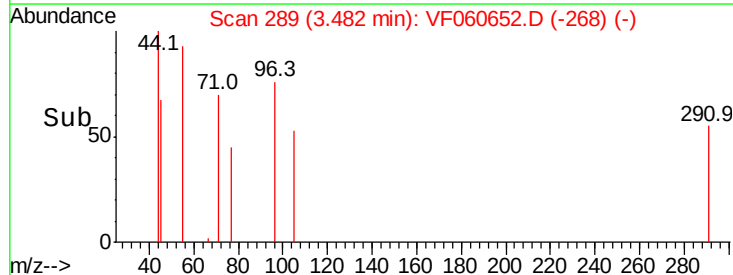
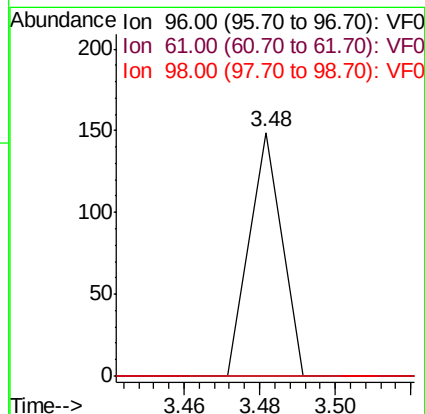
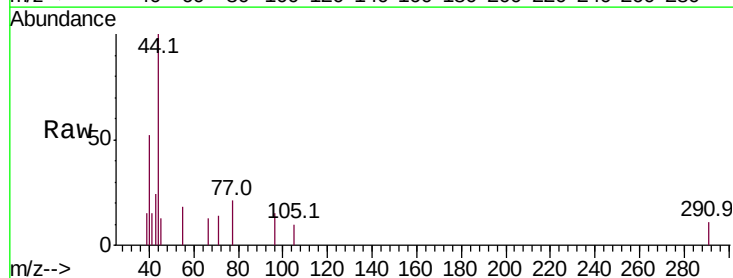
Tgt Ion: 96 Resp: 88

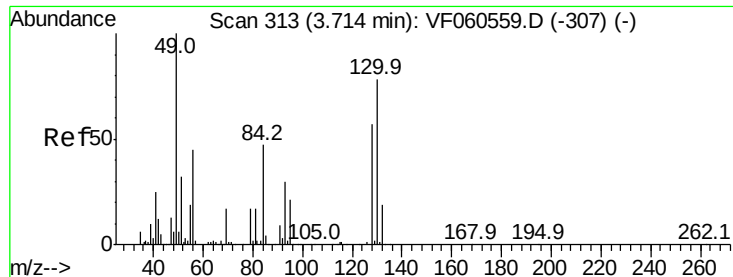
Ion Ratio Lower Upper

96 100

61 0.0 0.0 263.0

98 0.0 0.0 130.6





#28

Bromochloromethane

Concen: 140.085 ug/l

RT: 3.64 min Scan# 305

Delta R.T. -0.07 min

Lab File: VF060652.D

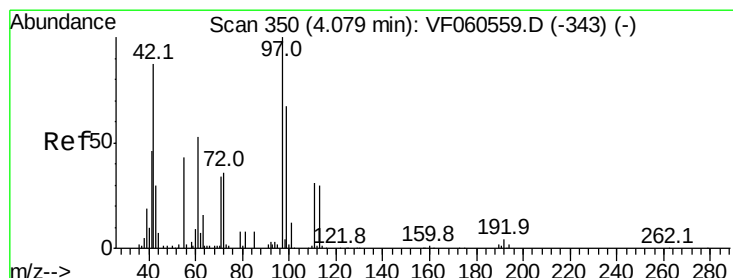
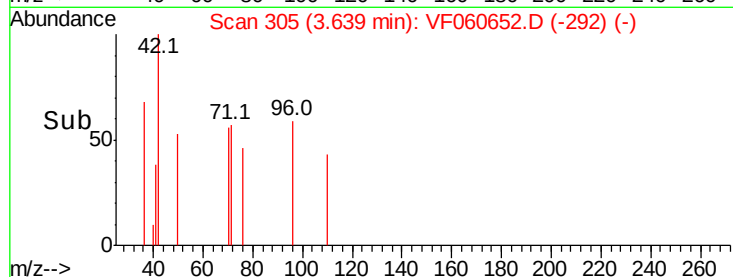
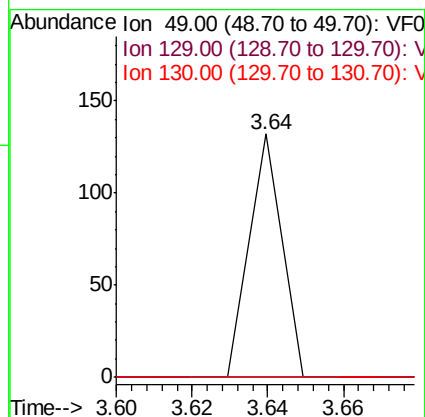
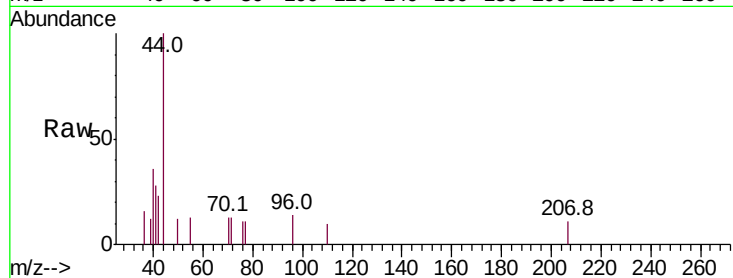
Acq: 8 Nov 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	49	Resp:	78
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	0.0	61.8	92.8#



#29

Tetrahydrofuran

Concen: 1916.370 ug/l

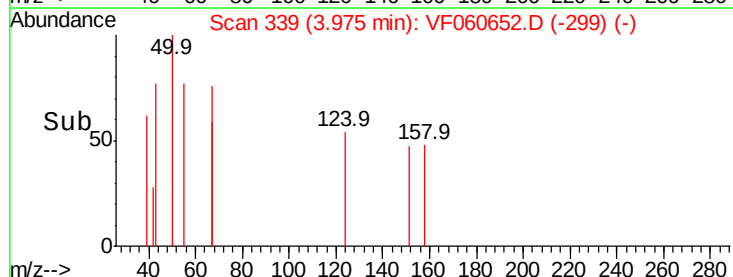
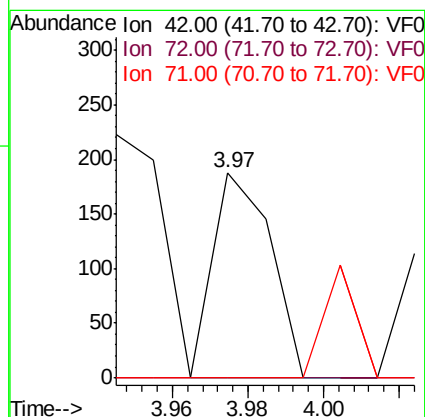
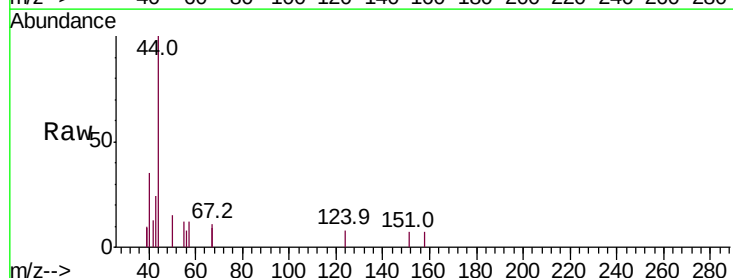
RT: 3.97 min Scan# 339

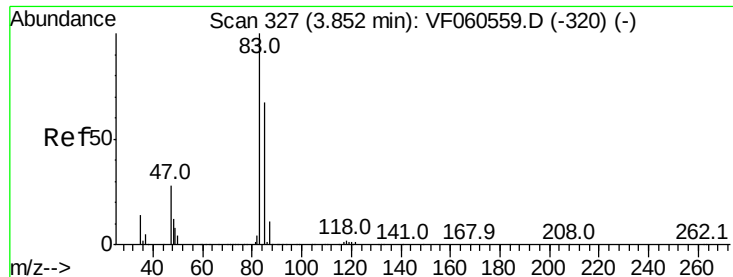
Delta R.T. -0.10 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Tgt Ion:	42	Resp:	198
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.0#
71	0.0	31.8	47.6#

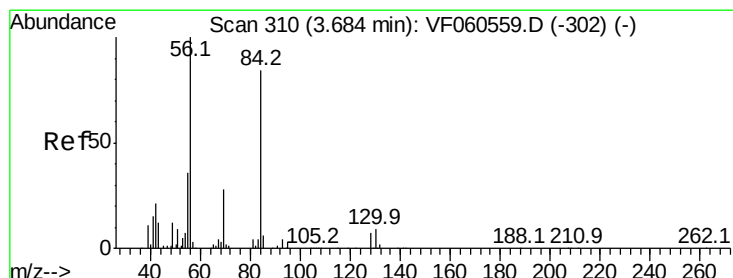
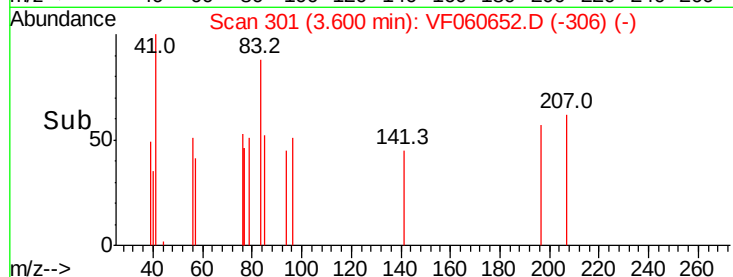
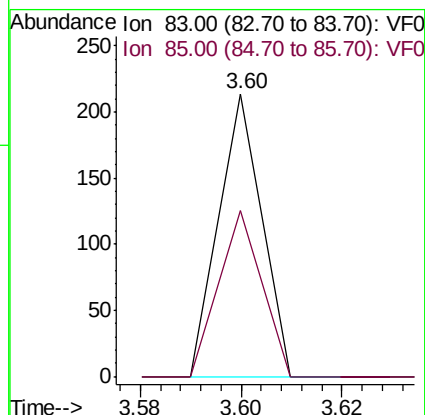
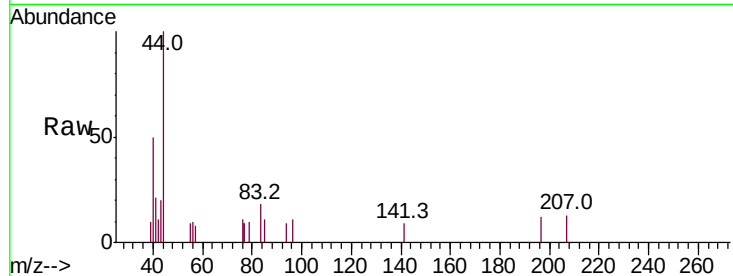




#30
Chloroform
Concen: 90.475 ug/l
RT: 3.60 min Scan# 301
Delta R.T. -0.25 min
Lab File: VF060652.D
Acq: 8 Nov 2018 16:23

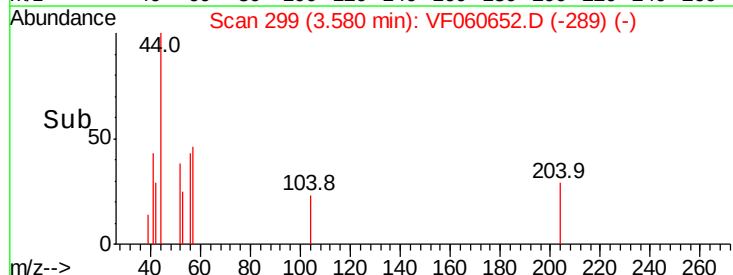
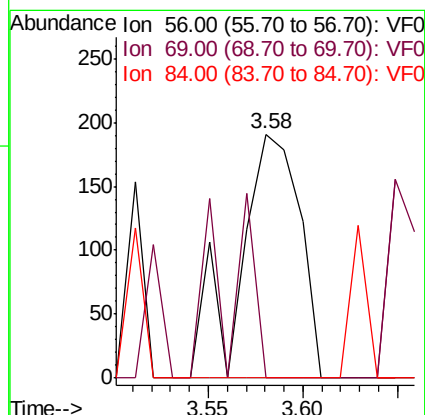
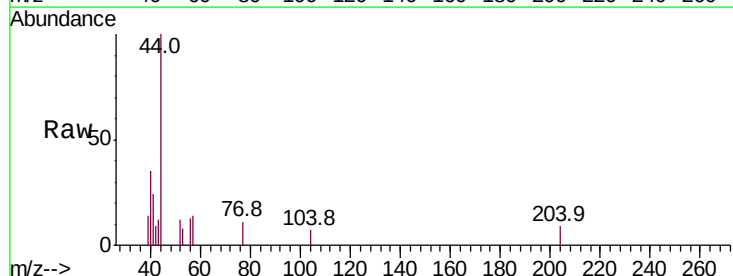
Instrument :
MSVOA_F
ClientSampled :

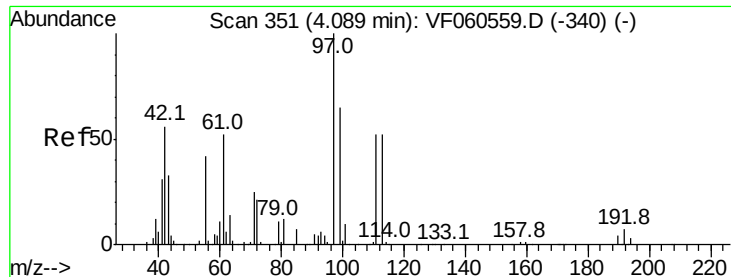
Tot Ion: 83 Resp: 127
Ion Ratio Lower Upper
83 100
85 58.9 53.7 80.5



#31
Cyclohexane
Concen: 345.481 ug/l
RT: 3.58 min Scan# 299
Delta R.T. -0.10 min
Lab File: VF060652.D
Acq: 8 Nov 2018 16:23

Tgt Ion: 56 Resp: 423
Ion Ratio Lower Upper
56 100
69 0.0 23.0 34.4#
84 0.0 67.1 100.7#





#32

1,1,1-Trichloroethane

Concen: 70.380 ug/l

RT: 3.96 min Scan# 337

Delta R.T. -0.13 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Instrument :

MSVOA_F

ClientSampled :

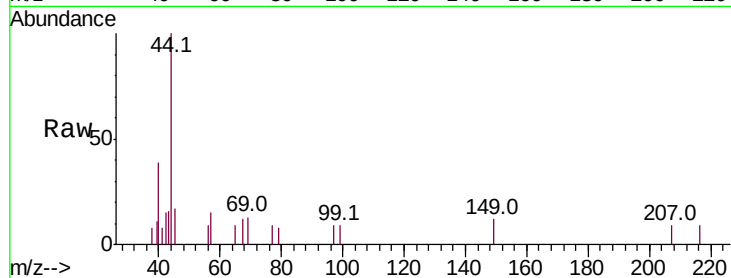
Tot Ion: 97 Resp: 69

Ion Ratio Lower Upper

97 100

99 102.6 52.4 78.6#

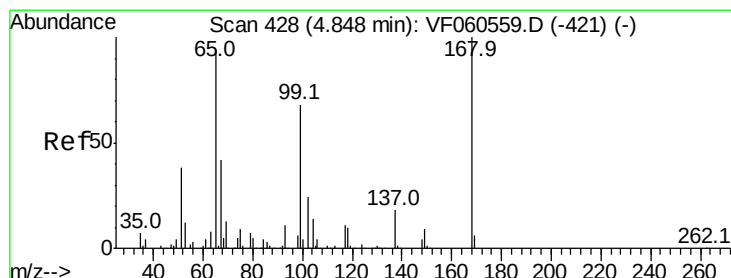
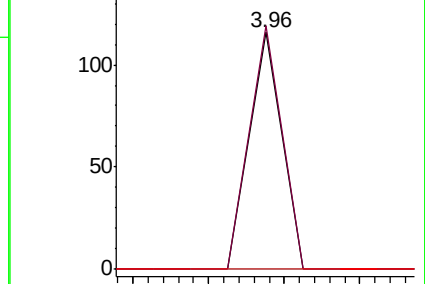
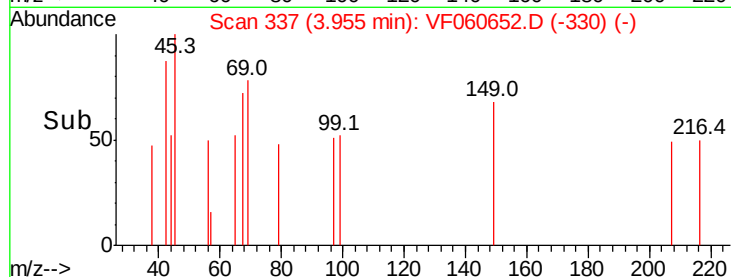
61 0.0 41.5 62.3#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 100.596 ug/l

RT: 4.71 min Scan# 414

Delta R.T. -0.13 min

Lab File: VF060652.D

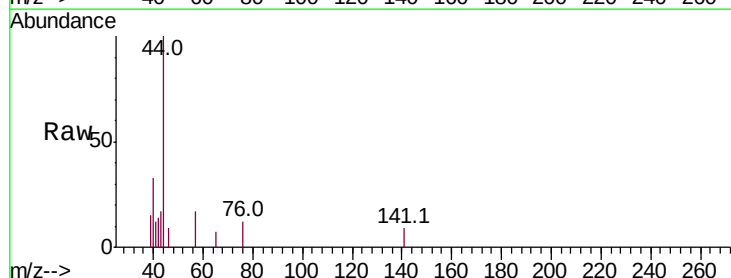
Acq: 8 Nov 2018 16:23

Tgt Ion: 65 Resp: 62

Ion Ratio Lower Upper

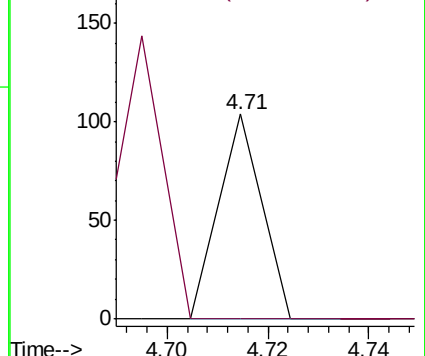
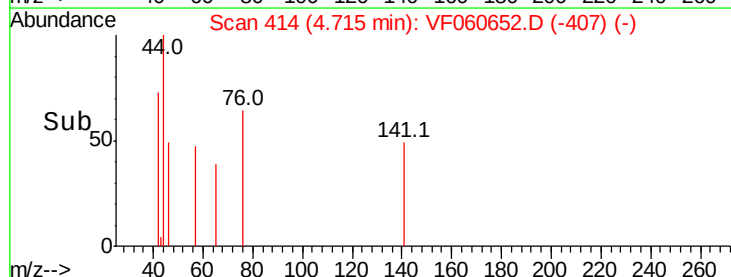
65 100

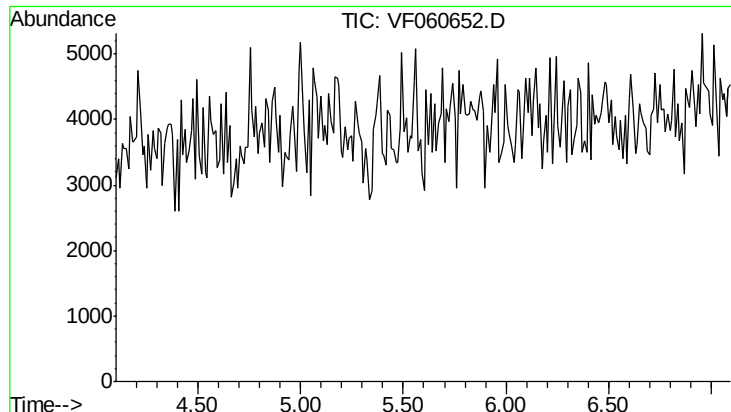
67 0.0 0.0 101.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

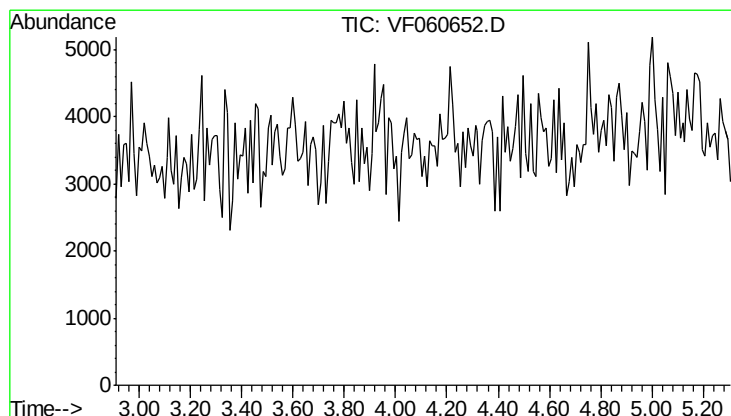
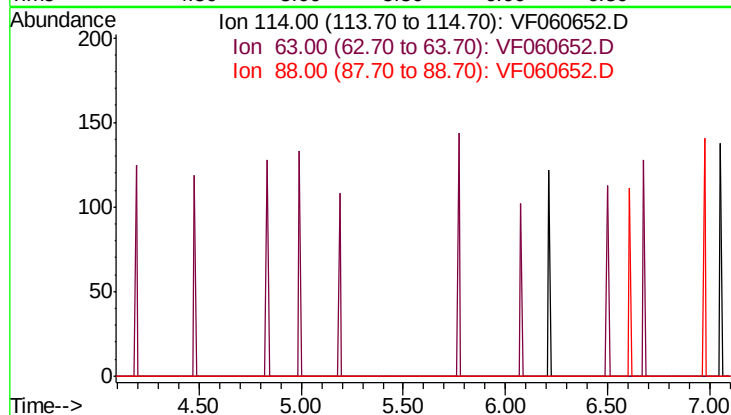




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.60 min
 Lab File: VF060652.D
 Acq: 8 Nov 2018 16:23

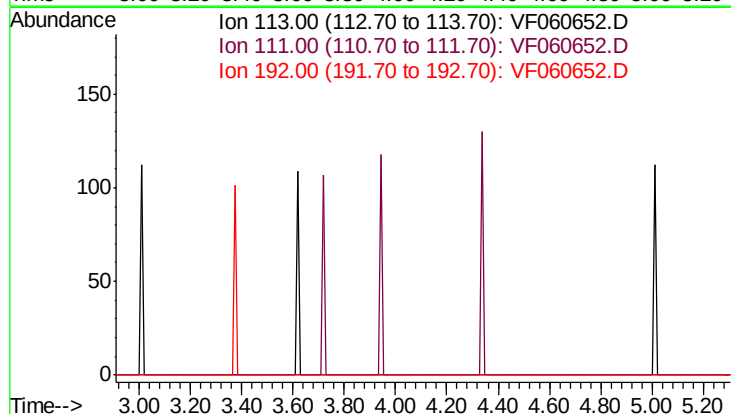
Instrument :
 MSVOA_F
 ClientSampleId :

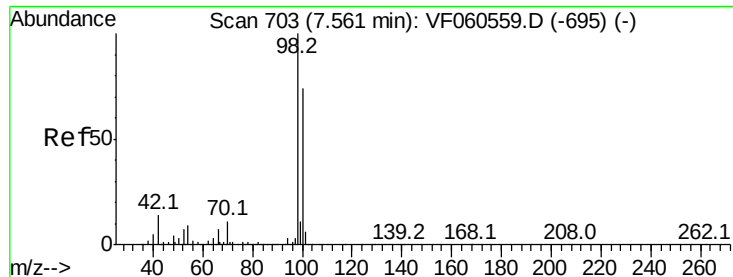
Tot Ion: 114
 Sig Exp Ratio
 114 100
 63 19.5
 88 19.1



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.11 min
 Lab File: VF060652.D
 Acq: 8 Nov 2018 16:23

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 99.9
 192 16.6





#50

Toluene-d8

Concen: 0.000 ug/l

RT: 7.59 min Scan# 706

Delta R.T. 0.03 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Instrument :

MSVOA_F

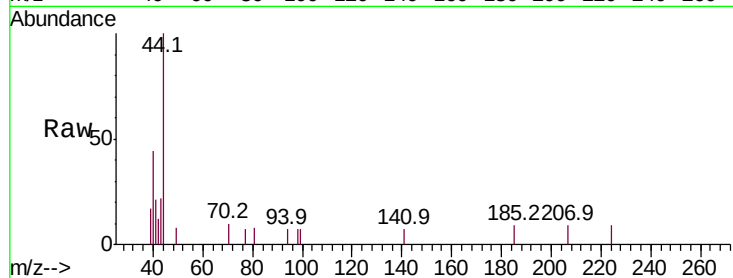
ClientSampled :

Tot Ion: 98 Resp: 64

Ion Ratio Lower Upper

98 100

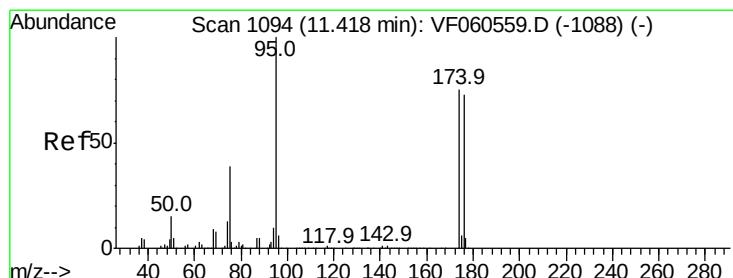
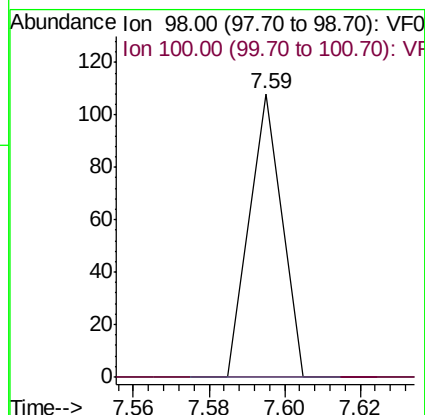
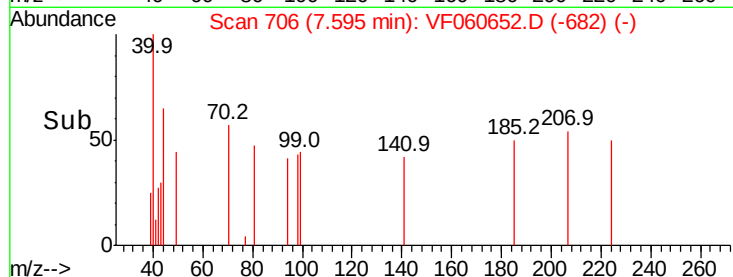
100 0.0 59.4 89.2#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.59



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

RT: 11.33 min Scan# 1085

Delta R.T. -0.08 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

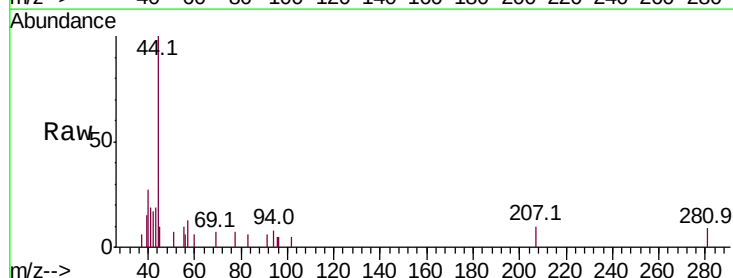
Tgt Ion: 95 Resp: 63

Ion Ratio Lower Upper

95 100

174 0.0 0.0 149.0

176 0.0 0.0 145.6

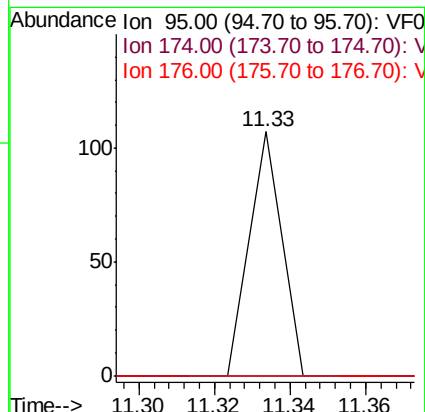
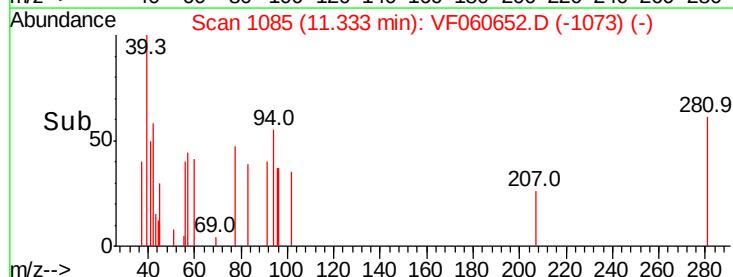


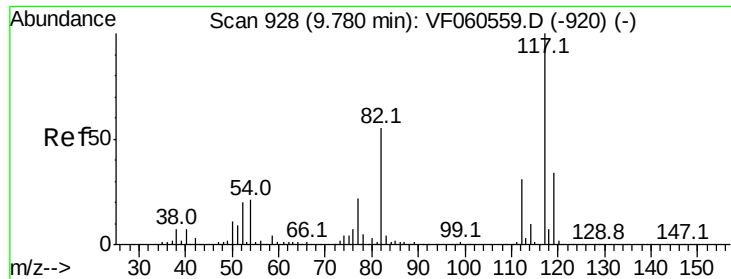
Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.33

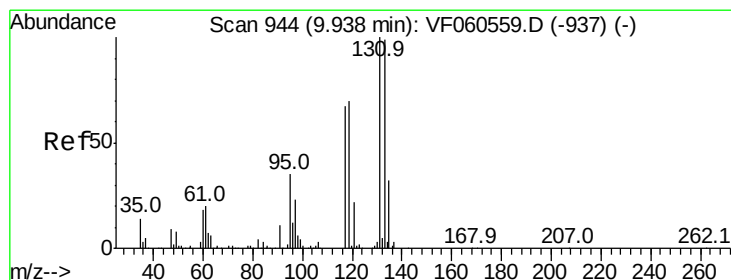
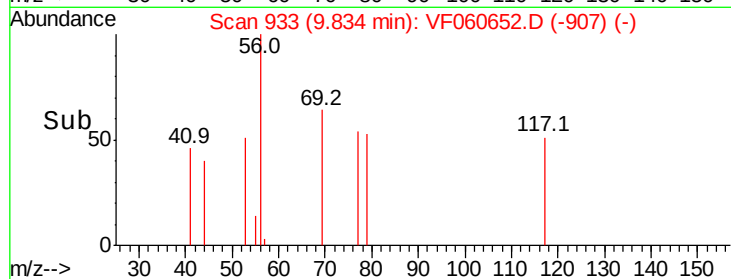
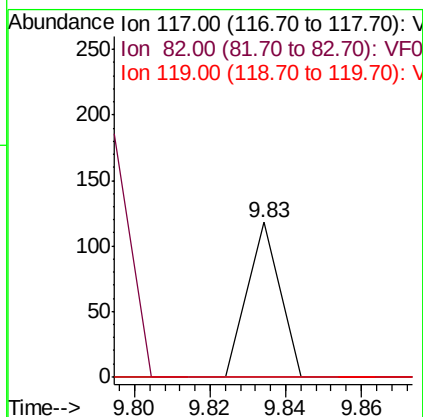
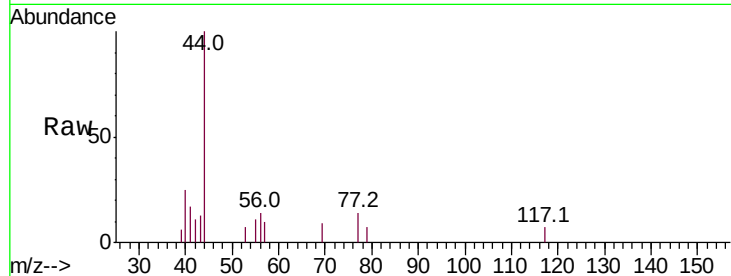




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.83 min Scan# 933
Delta R.T. 0.05 min
Lab File: VF060652.D
Acq: 8 Nov 2018 16:23

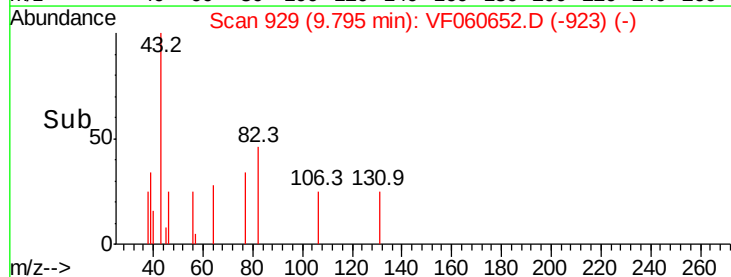
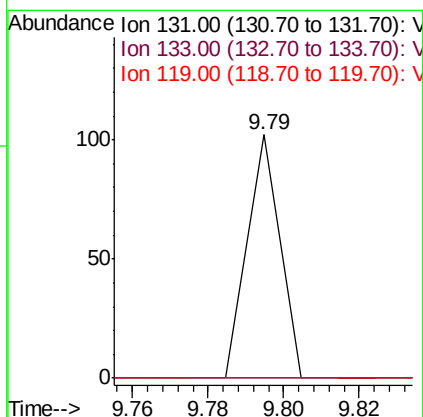
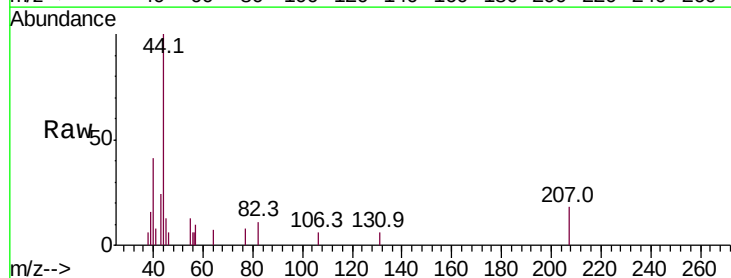
Instrument :
MSVOA_F
ClientSampled :

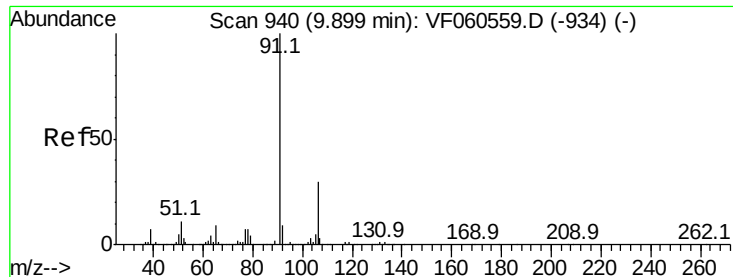
Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	43.9	65.9#
119	0.0	27.4	41.0#



#66
1,1,1,2-Tetrachloroethane
Concen: 99.196 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.14 min
Lab File: VF060652.D
Acq: 8 Nov 2018 16:23

Tgt Ion	Ratio	Lower	Upper
131	100		
133	0.0	49.5	148.7#
119	0.0	35.2	105.6#





#67

Ethyl Benzene

Concen: 30.411 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.01 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

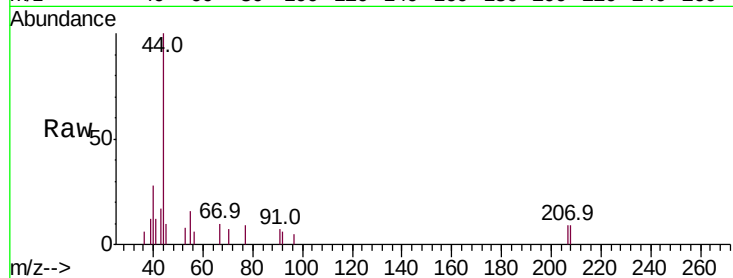
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 91 Resp: 79

Ion Ratio Lower Upper

91 100

106 0.0 24.2 36.4#



Abundance Ion 91.00 (90.70 to 91.70): VF060652.D

Ion 106.00 (105.70 to 106.70): VF060652.D

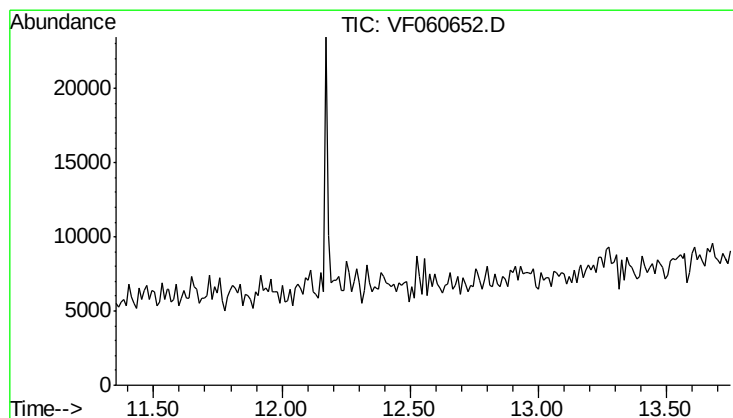
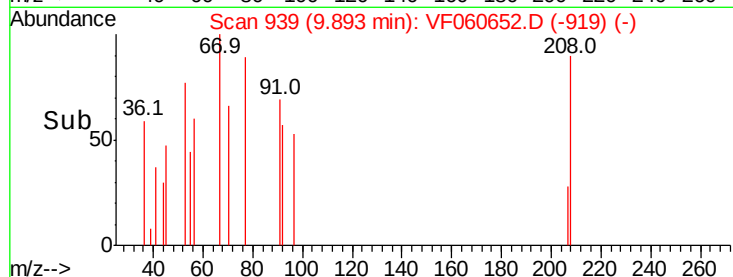
9.89

100

50

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 12.55 min

Lab File: VF060652.D

Acq: 8 Nov 2018 16:23

Tgt Ion: 152

Sig Exp Ratio

152 100

115 59.2

150 157.8

