

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059389.D
 Acq On : 2 Jul 2018 16:13
 Operator : VA/AP
 Sample : J3802-03
 Misc : 6.49g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-3(10.0)

Quant Time: Jul 03 01:09:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	118205	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	238401	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.89	117	59609	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	129271	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	172150	112.72	ug/l	-0.01
Spiked Amount			Recovery	=	225.44%	
35) Dibromofluoromethane	4.28	113	140317	80.55	ug/l	0.00
Spiked Amount			Recovery	=	161.10%	
50) Toluene-d8	7.69	98	10632	2.47	ug/l	-0.01
Spiked Amount			Recovery	=	4.94%	
62) 4-Bromofluorobenzene	11.50	95	119260	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	

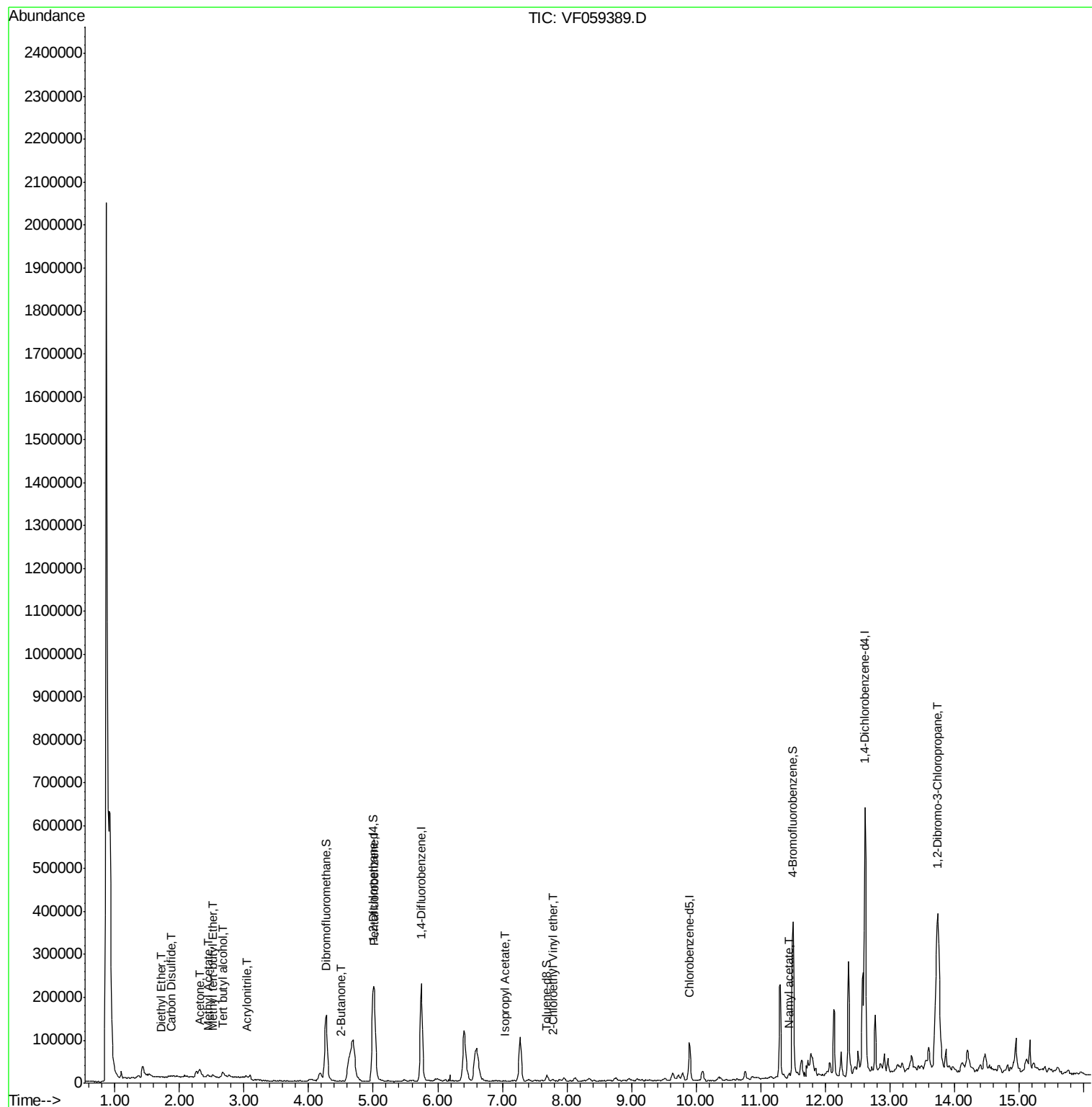
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.33	94	258	Below Cal		84
8) Diethyl Ether	1.70	74	370	1.02 ug/l		77
11) Tert butyl alcohol	2.68	59	16603	163.30 ug/l		99
13) Acrolein	1.99	56	561	Below Cal		99
15) Acrylonitrile	3.05	53	729	4.07 ug/l #		1
16) Acetone	2.32	43	9900	16.43 ug/l		100
17) Carbon Disulfide	1.87	76	7267	4.43 ug/l #		67
18) Methyl Acetate	2.44	43	7878	10.51 ug/l		96
19) Methyl tert-butyl Ether	2.53	73	5619	2.16 ug/l #		65
20) Methylene Chloride	2.26	84	4983	Below Cal		90
25) 2-Butanone	4.50	43	1883	1.34 ug/l #		59
28) Bromochloromethane	3.82	49	83	Below Cal		6
29) Tetrahydrofuran	4.49	42	210	Below Cal		96
37) Ethyl Acetate	4.27	43	978	Below Cal		26
43) Isopropyl Acetate	7.05	43	1815	1.05 ug/l #		52
49) 1,4-Dioxane	6.86	88	64	Below Cal		1
58) 2-Chloroethyl Vinyl ether	7.77	63	222	1.78 ug/l		100
59) 2-Hexanone	9.64	43	6645	Below Cal		71
74) N-amyl acetate	11.44	43	3377	1.24 ug/l #		50
87) 1,3-Dichlorobenzene	12.55	146	629	Below Cal		37
92) 1,2-Dibromo-3-Chloropropan	13.75	75	8123	19.27 ug/l #		36

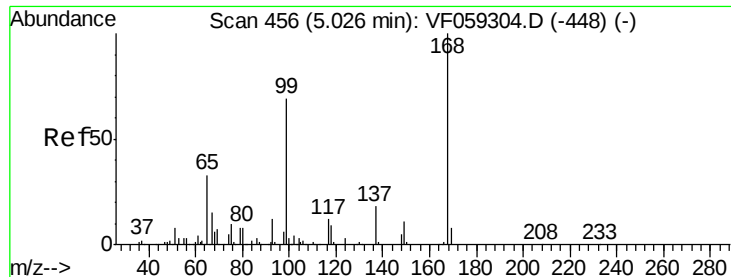
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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CF-3(10.0)

Quant Time: Jul 03 01:09:13 2018
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Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

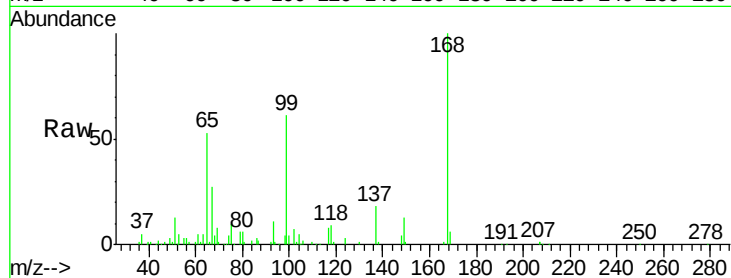
CF-3(10.0)

Tot Ion:168 Resp: 118205

Ion Ratio Lower Upper

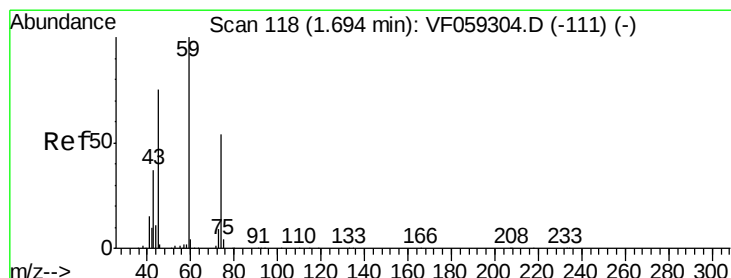
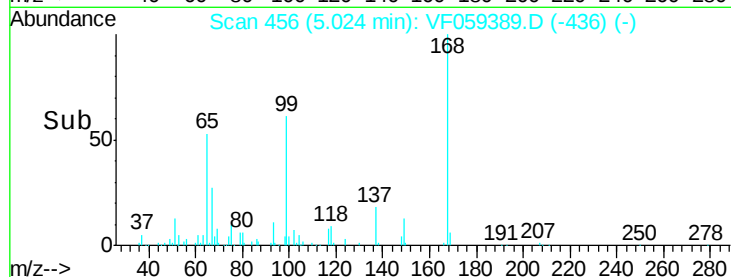
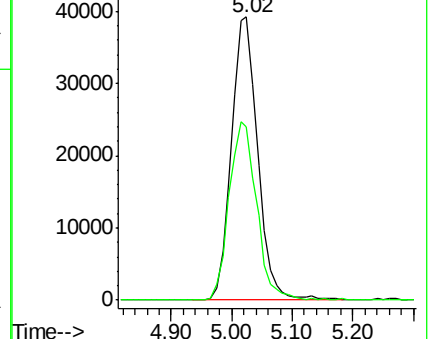
168 100

99 61.1 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 1.02 ug/l

RT: 1.70 min Scan# 119

Delta R.T. 0.01 min

Lab File: VF059389.D

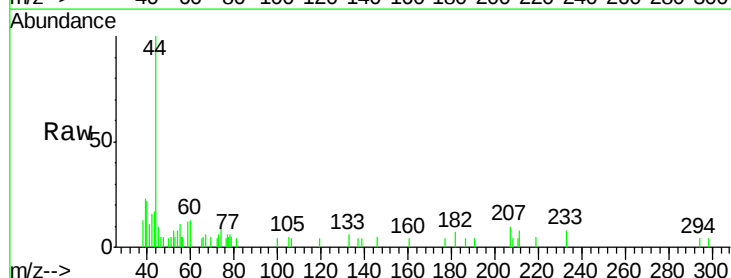
Acq: 2 Jul 2018 16:13

Tgt Ion: 74 Resp: 370

Ion Ratio Lower Upper

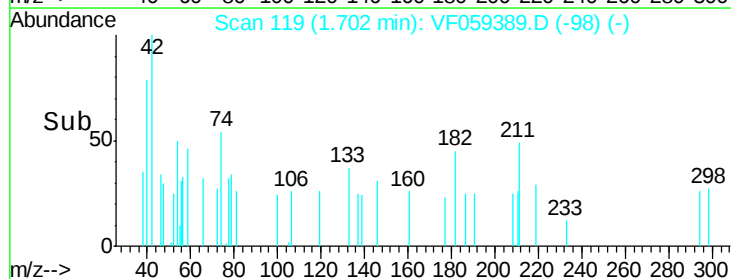
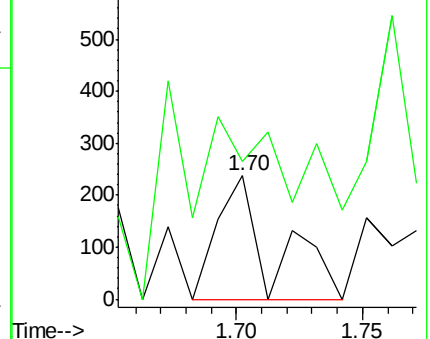
74 100

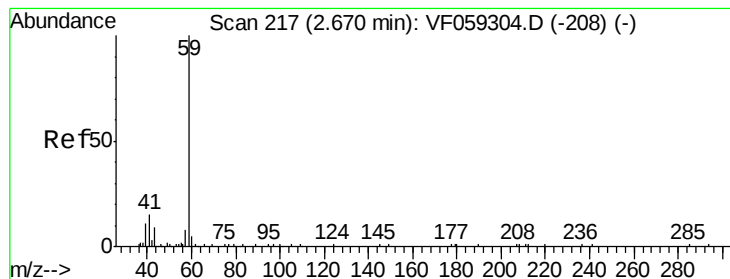
45 111.8 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



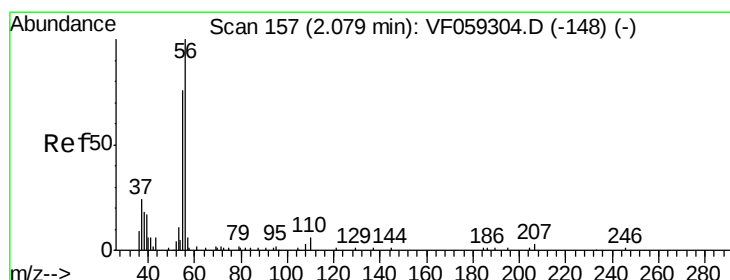
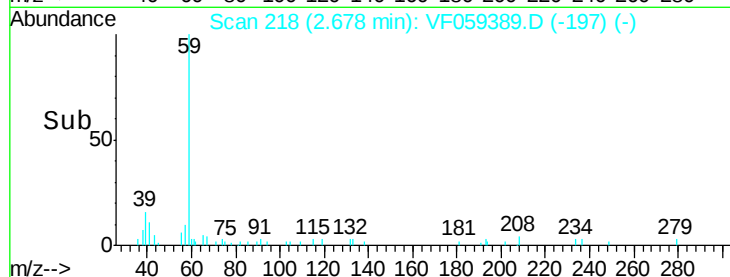
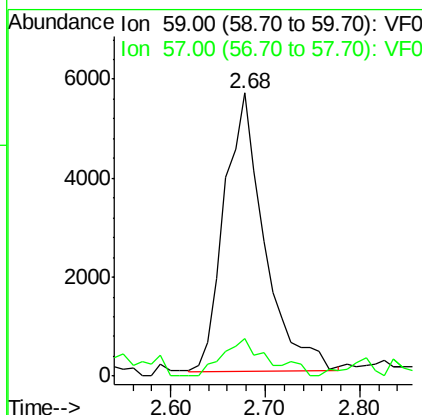
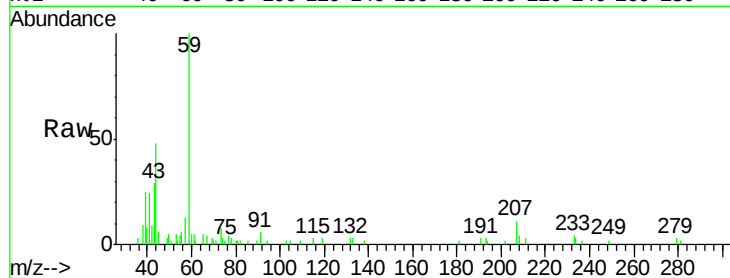


#11

Tert butyl alcohol
 Concen: 163.30 ug/l
 RT: 2.68 min Scan# 218
 Delta R.T. 0.01 min
 Lab File: VF059389.D
 Acq: 2 Jul 2018 16:13

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-3(10.0)

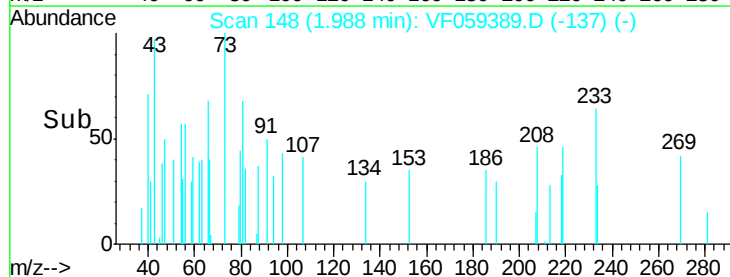
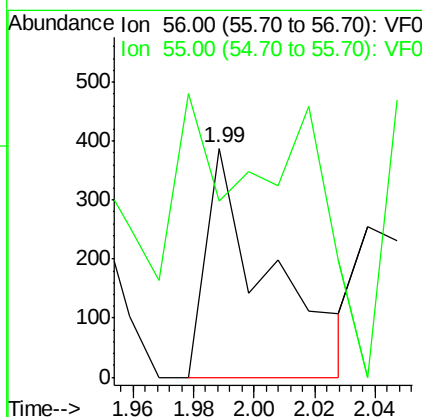
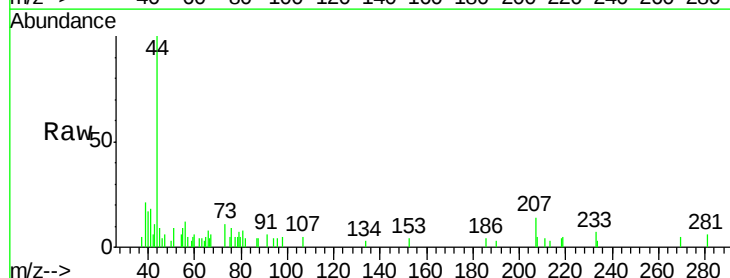
Tot Ion: 59 Resp: 16603
 Ion Ratio Lower Upper
 59 100
 57 13.2 11.0 16.4

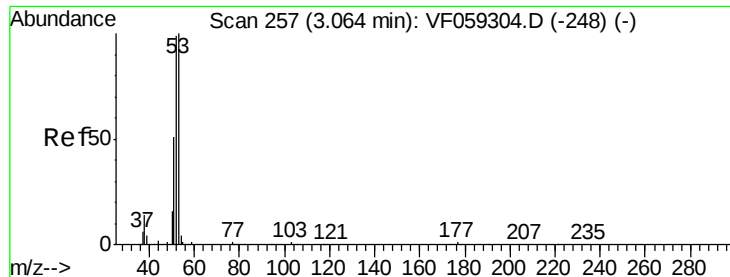


#13

Acrolein
 Concen: Below Cal
 RT: 1.99 min Scan# 148
 Delta R.T. -0.09 min
 Lab File: VF059389.D
 Acq: 2 Jul 2018 16:13

Tgt Ion: 56 Resp: 561
 Ion Ratio Lower Upper
 56 100
 55 76.8 62.4 93.6





#15

Acrylonitrile

Concen: 4.07 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.01 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

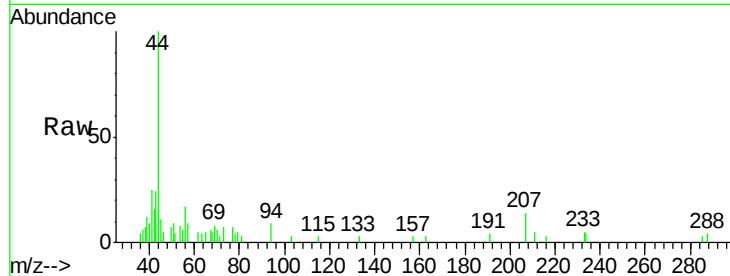
Tot Ion: 53 Resp: 729

Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

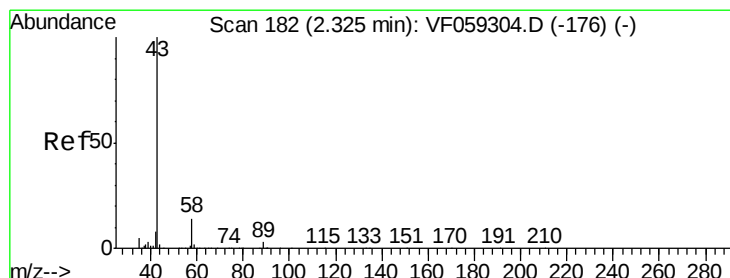
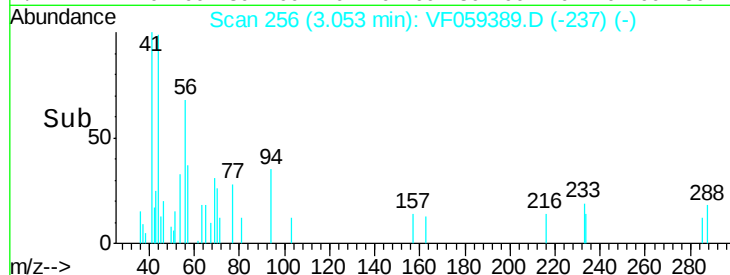
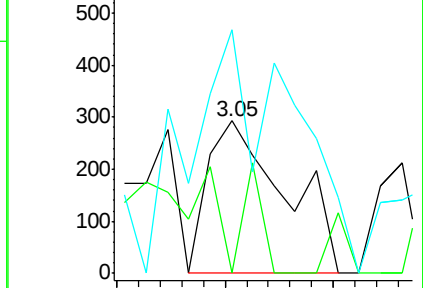
51 159.7 40.9 61.3#



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: 16.43 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059389.D

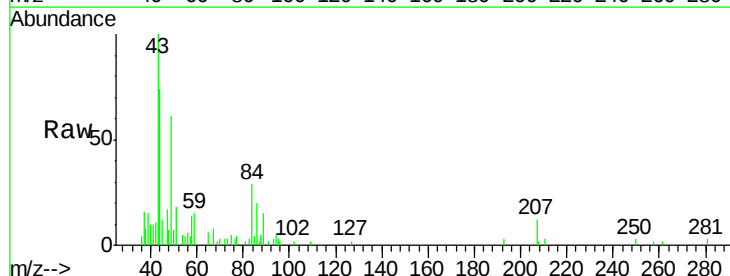
Acq: 2 Jul 2018 16:13

Tgt Ion: 43 Resp: 9900

Ion Ratio Lower Upper

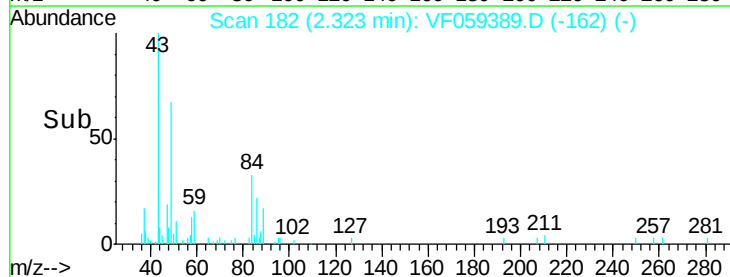
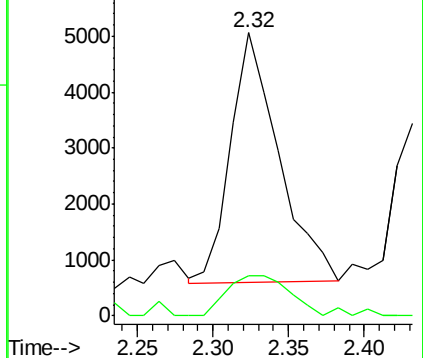
43 100

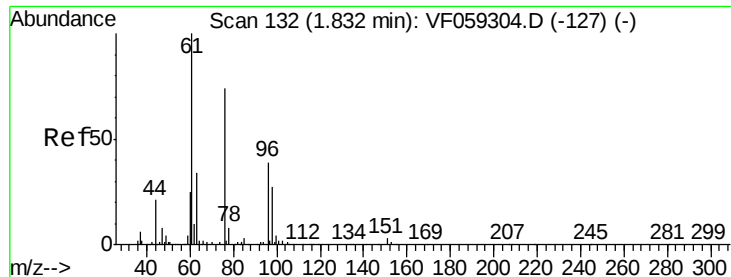
58 14.0 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

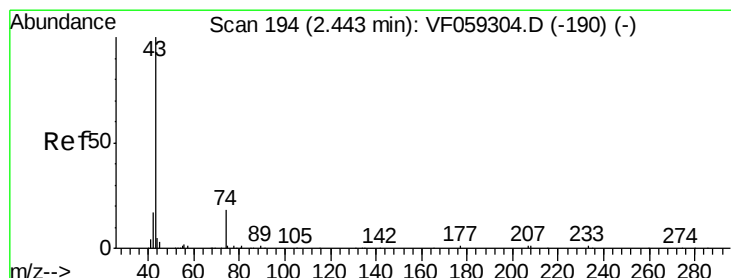
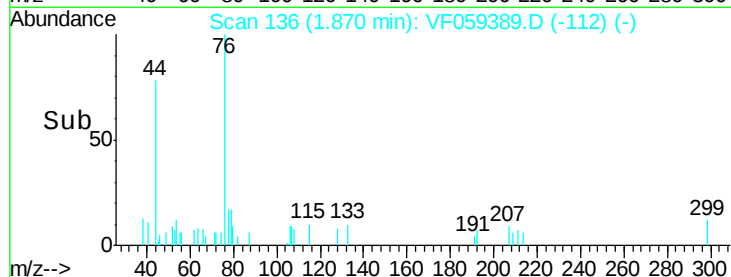
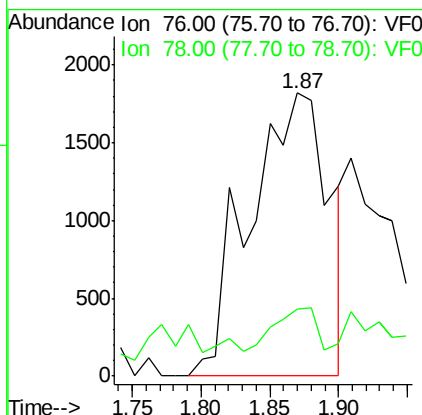
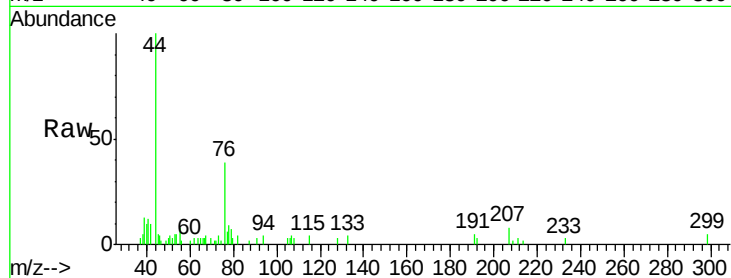




#17
Carbon Disulfide
Concen: 4.43 ug/l
RT: 1.87 min Scan# 136
Delta R.T. 0.04 min
Lab File: VF059389.D
Acq: 2 Jul 2018 16:13

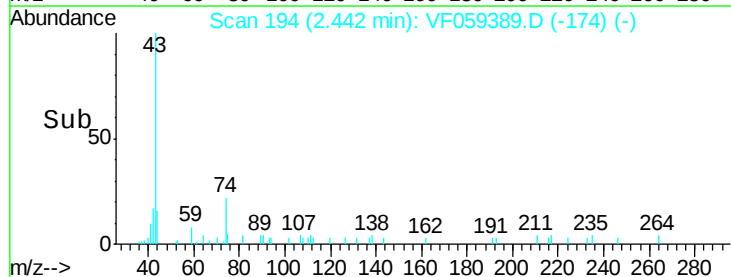
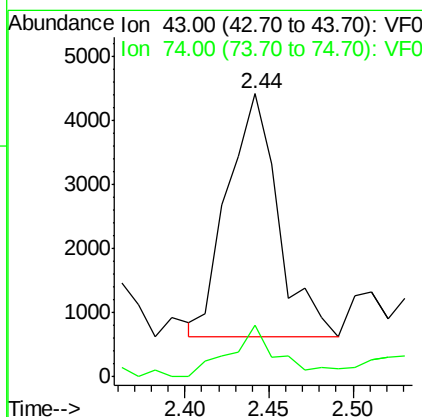
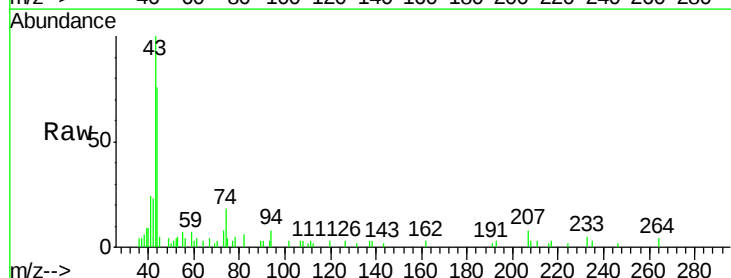
Instrument :
MSVOA_F
ClientSampleId :
CF-3(10.0)

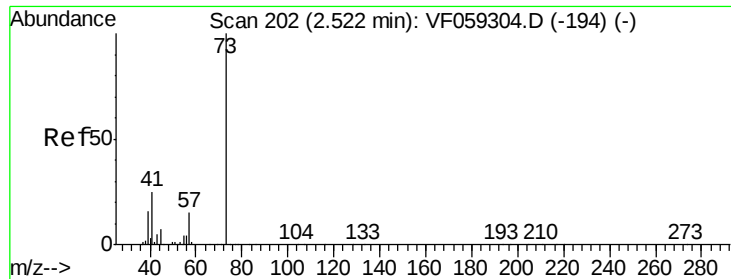
Tot Ion: 76 Resp: 7267
Ion Ratio Lower Upper
76 100
78 23.8 8.9 13.3#



#18
Methyl Acetate
Concen: 10.51 ug/l
RT: 2.44 min Scan# 194
Delta R.T. -0.00 min
Lab File: VF059389.D
Acq: 2 Jul 2018 16:13

Tgt Ion: 43 Resp: 7878
Ion Ratio Lower Upper
43 100
74 18.2 13.3 19.9



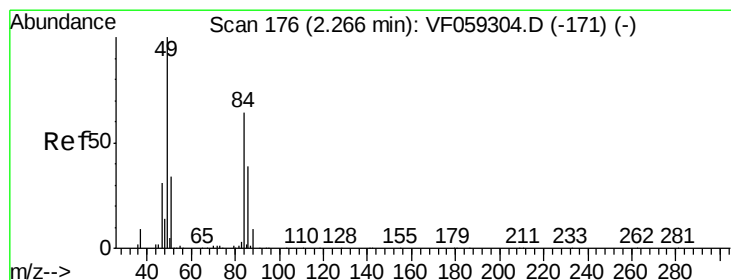
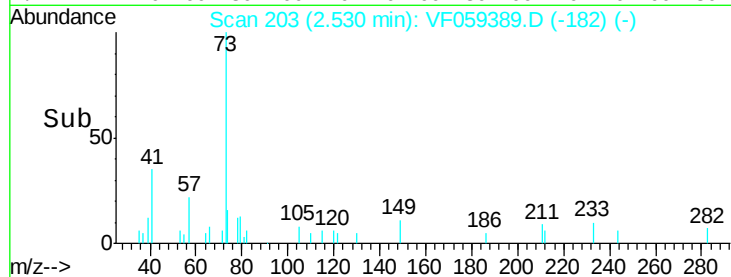
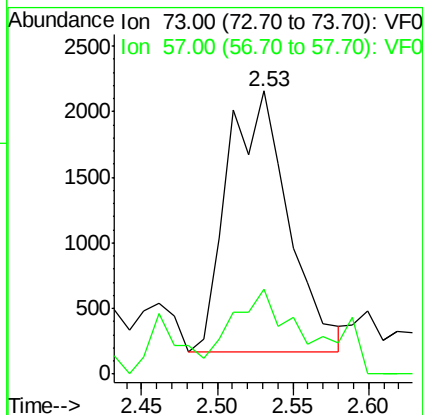
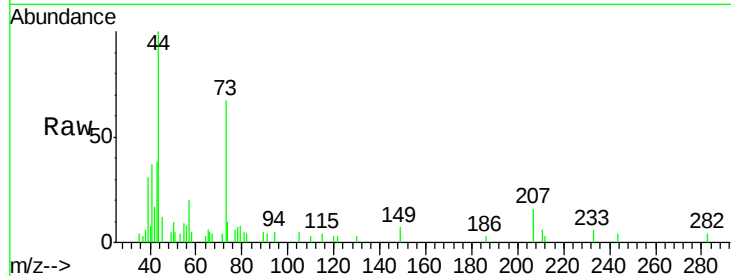


#19

Methyl tert-butyl Ether
 Concen: 2.16 ug/l
 RT: 2.53 min Scan# 203
 Delta R.T. 0.01 min
 Lab File: VF059389.D
 Acq: 2 Jul 2018 16:13

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-3(10.0)

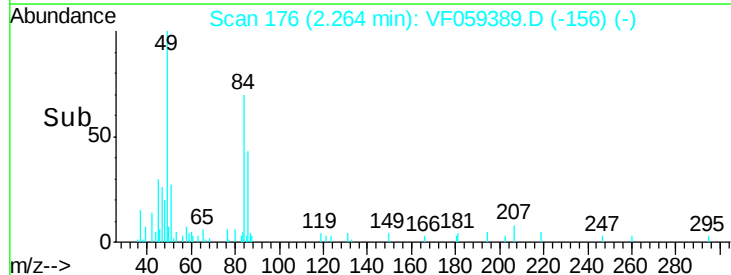
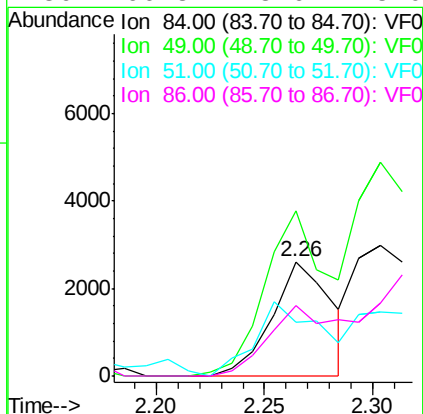
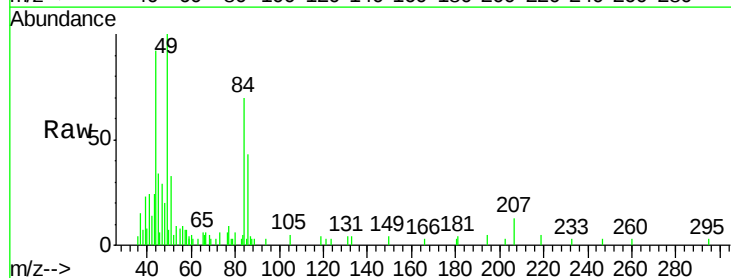
Tot Ion: 73 Resp: 5619
 Ion Ratio Lower Upper
 73 100
 57 29.9 12.3 18.5#

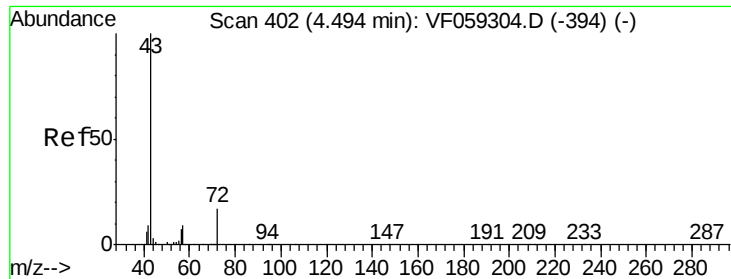


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.26 min Scan# 176
 Delta R.T. -0.00 min
 Lab File: VF059389.D
 Acq: 2 Jul 2018 16:13

Tgt Ion: 84 Resp: 4983
 Ion Ratio Lower Upper
 84 100
 49 143.7 126.5 189.7
 51 46.8 42.9 64.3
 86 66.3 48.6 73.0





#25

2-Butanone

Concen: 1.34 ug/l

RT: 4.50 min Scan# 403

Delta R.T. 0.01 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

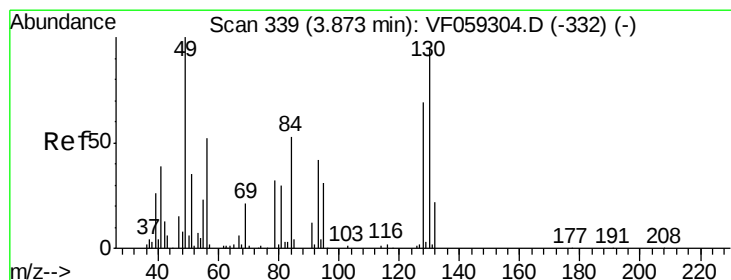
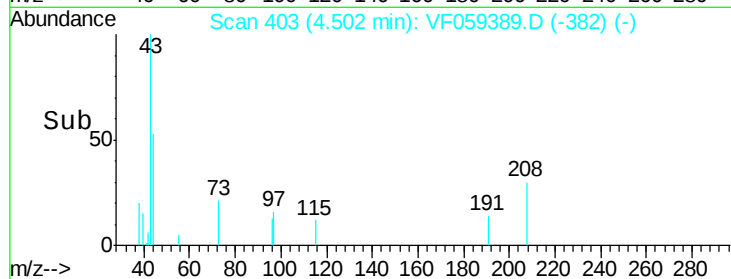
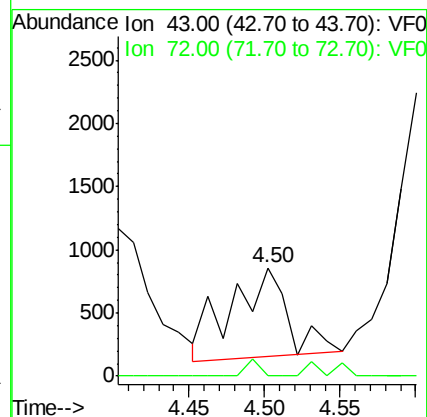
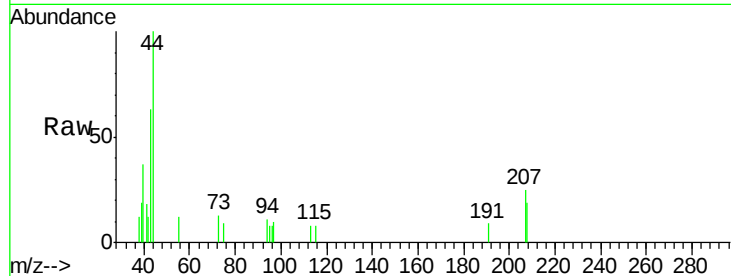
CF-3(10.0)

Tot Ion: 43 Resp: 1883

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 3.82 min Scan# 334

Delta R.T. -0.05 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

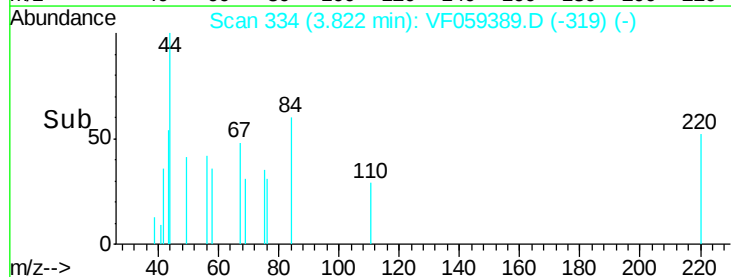
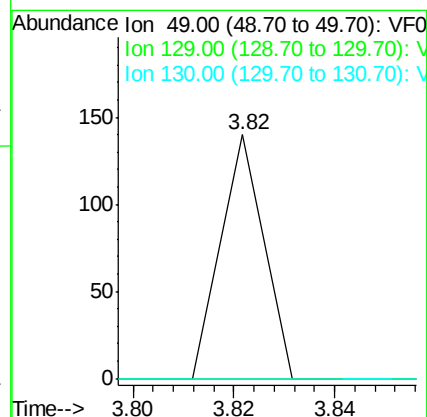
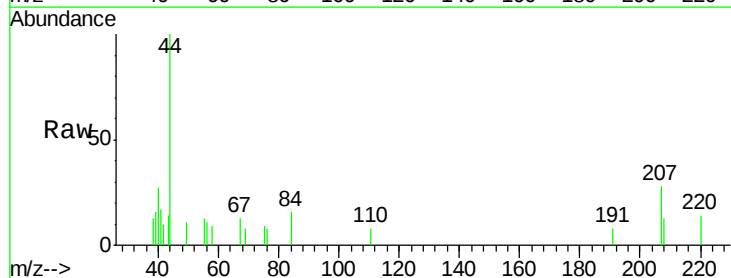
Tgt Ion: 49 Resp: 83

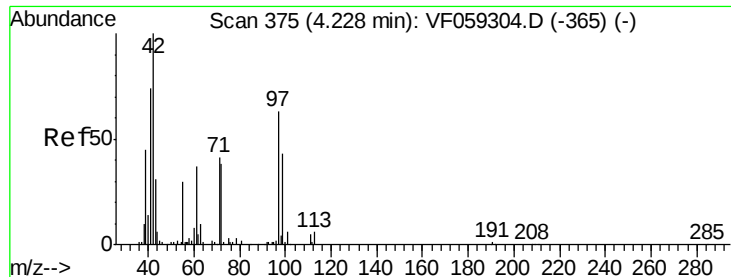
Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

130 0.0 75.1 112.7#

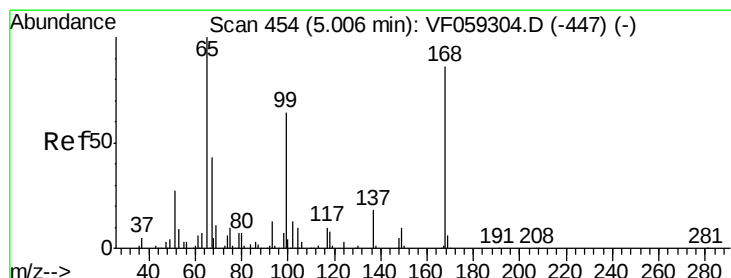
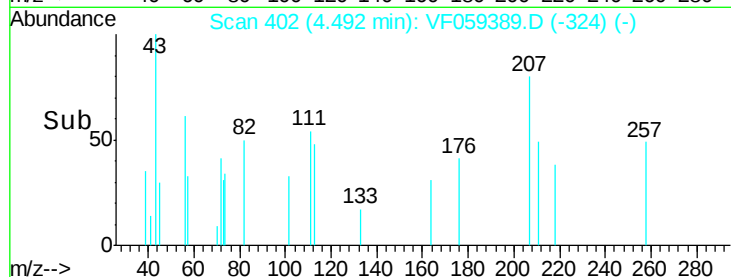
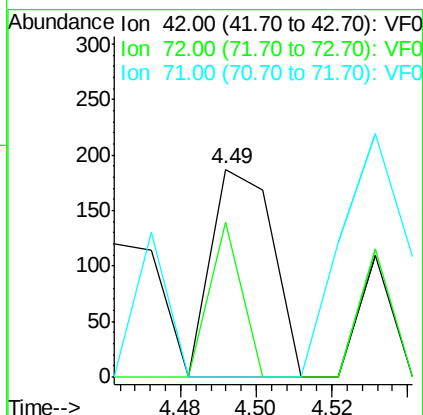
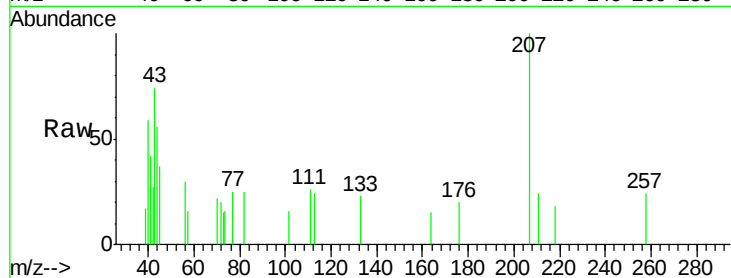




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.49 min Scan# 402
Delta R.T. 0.27 min
Lab File: VF059389.D
Acq: 2 Jul 2018 16:13

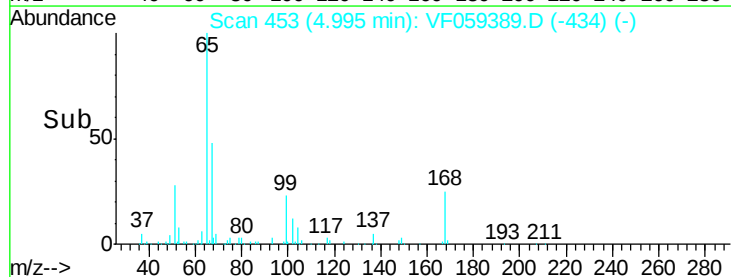
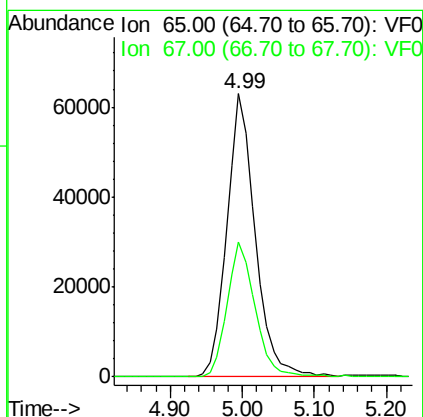
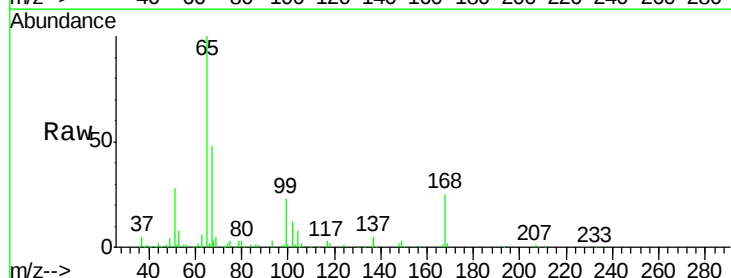
Instrument :
MSVOA_F
ClientSampled :
CF-3(10.0)

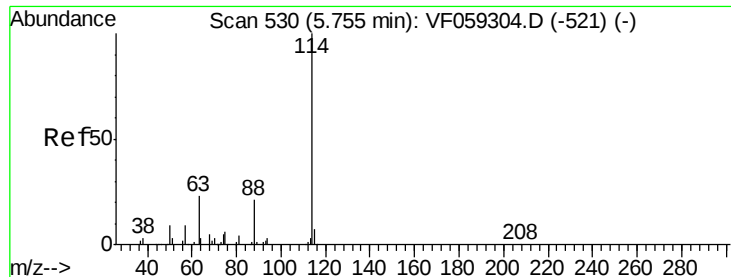
Tot Ion: 42 Resp: 210
Ion Ratio Lower Upper
42 100
72 39.5 30.5 45.7
71 36.7 32.5 48.7



#33
1,2-Dichloroethane-d4
Concen: 112.72 ug/l
RT: 4.99 min Scan# 453
Delta R.T. -0.01 min
Lab File: VF059389.D
Acq: 2 Jul 2018 16:13

Tgt Ion: 65 Resp: 172150
Ion Ratio Lower Upper
65 100
67 47.8 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

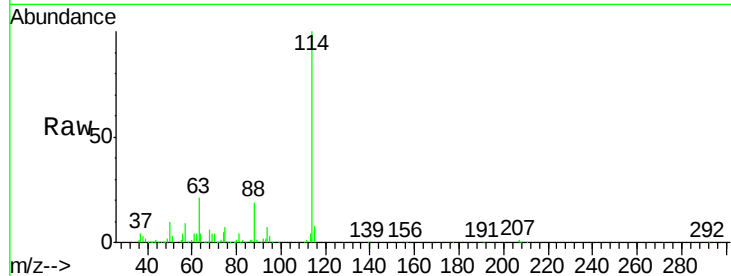
Tot Ion:114 Resp: 238401

Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.8

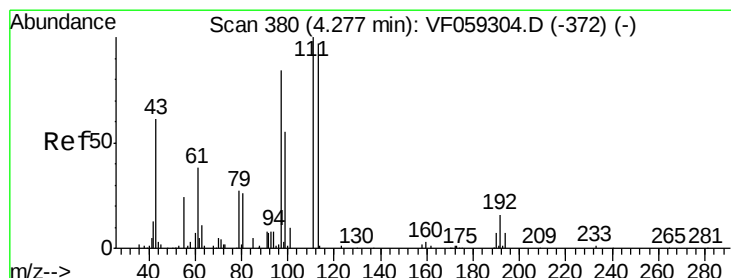
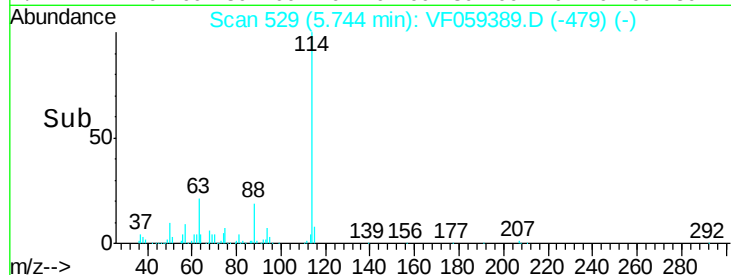
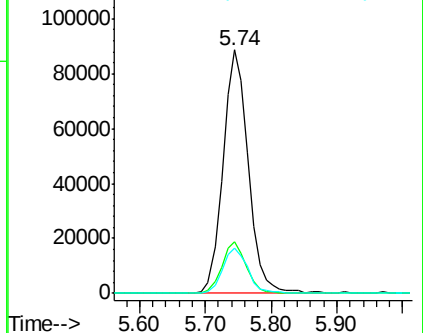
88 18.6 0.0 41.2



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: 80.55 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

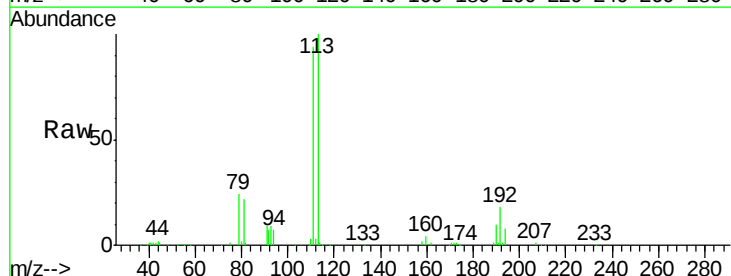
Tgt Ion:113 Resp: 140317

Ion Ratio Lower Upper

113 100

111 93.8 82.1 123.1

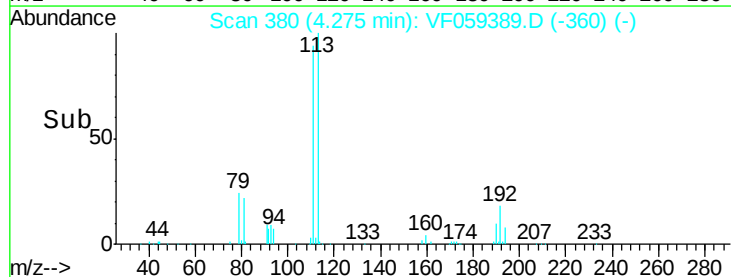
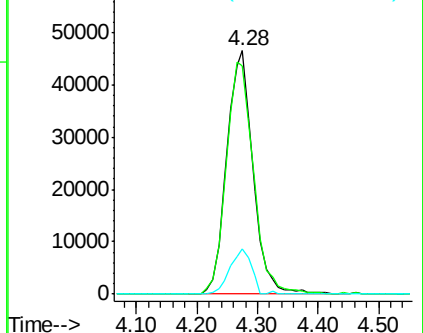
192 18.3 13.0 19.6

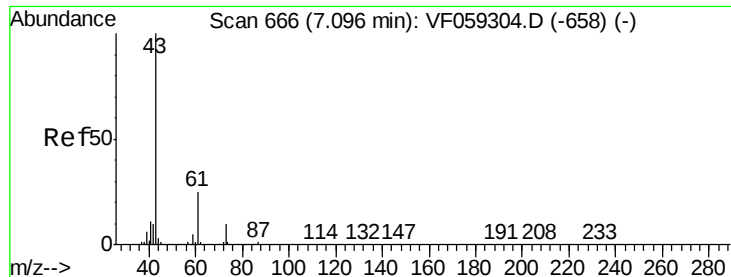


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 1.05 ug/l

RT: 7.05 min Scan# 661

Delta R.T. -0.05 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

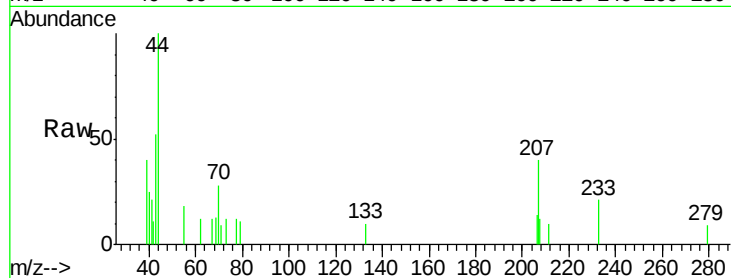
Tot Ion: 43 Resp: 1815

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

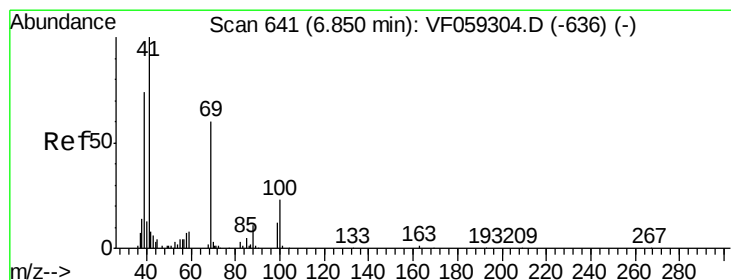
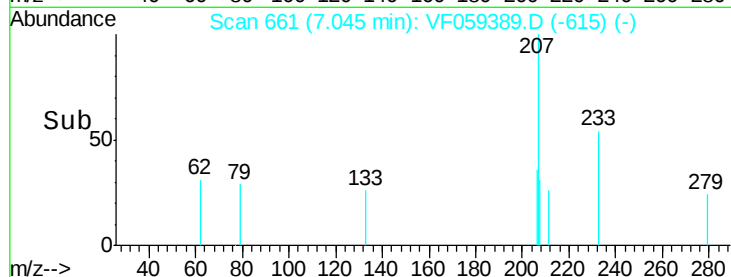
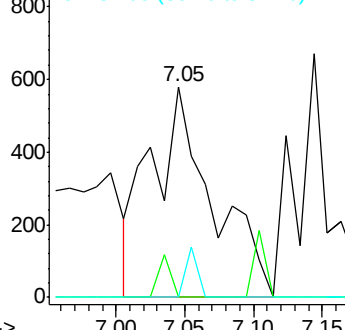
87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.86 min Scan# 642

Delta R.T. 0.01 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

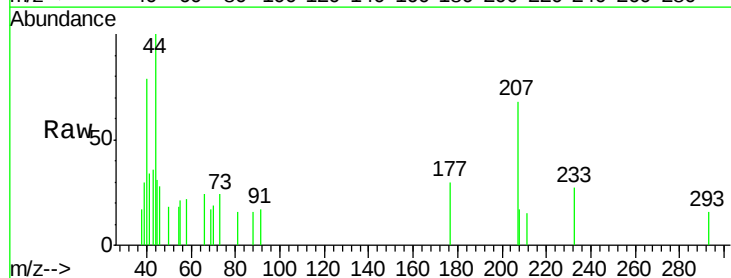
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 225.9 50.6 75.8#

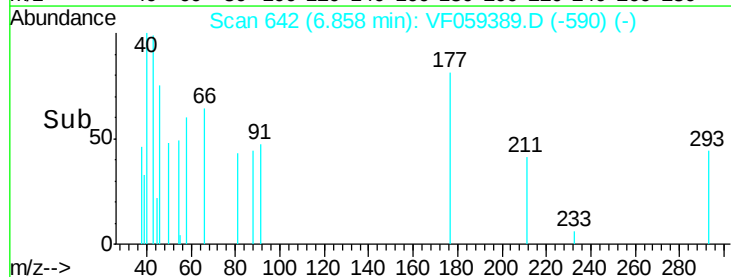
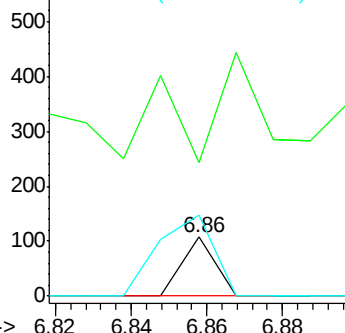
58 136.1 46.6 69.8#

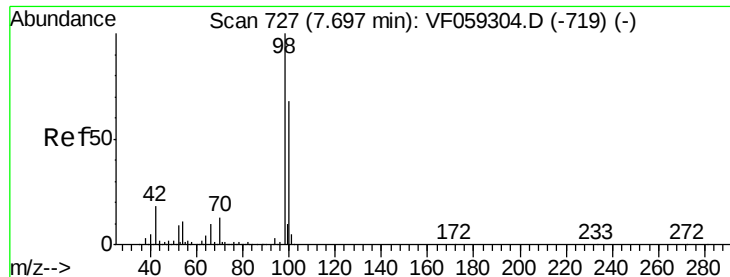


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 2.47 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

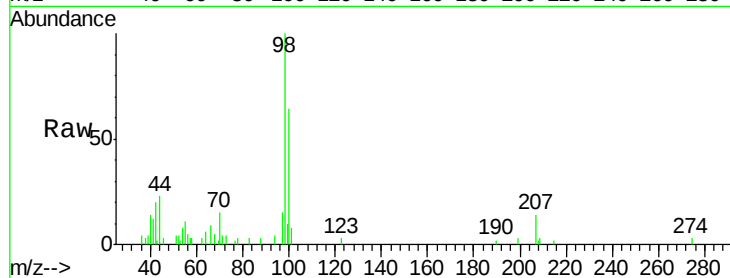
CF-3(10.0)

Tot Ion: 98 Resp: 10632

Ion Ratio Lower Upper

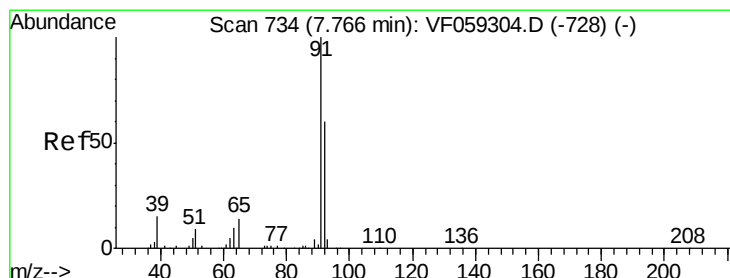
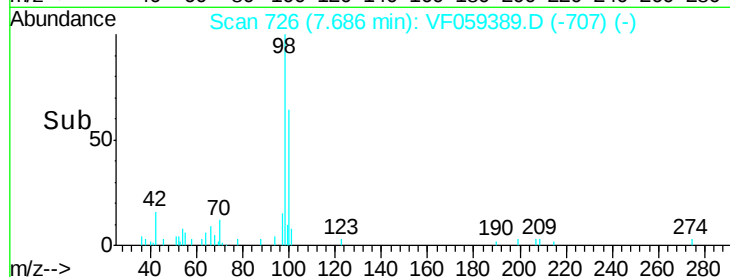
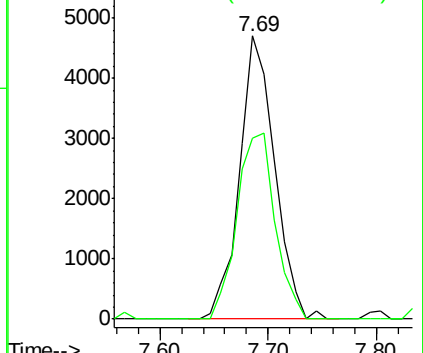
98 100

100 64.1 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 1.78 ug/l

RT: 7.77 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF059389.D

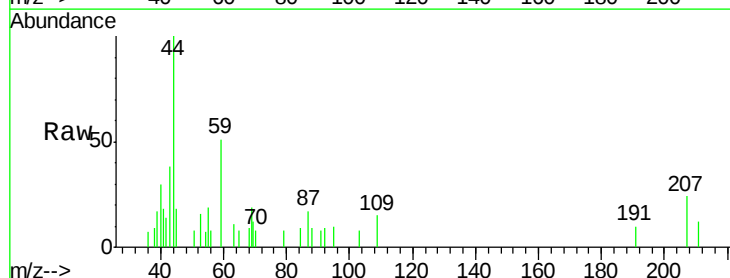
Acq: 2 Jul 2018 16:13

Tgt Ion: 63 Resp: 222

Ion Ratio Lower Upper

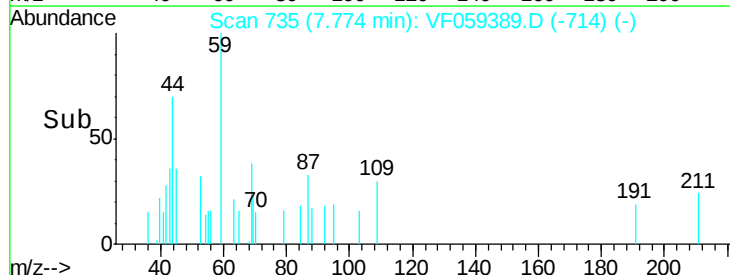
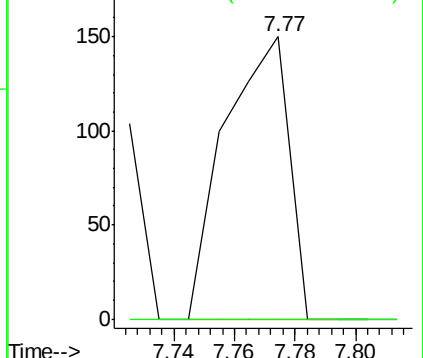
63 100

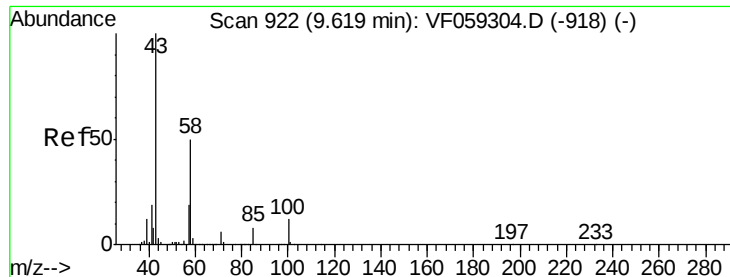
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

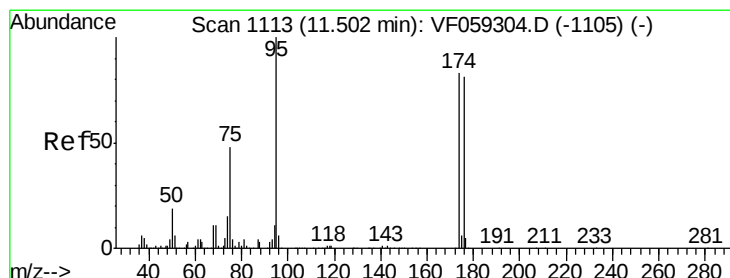
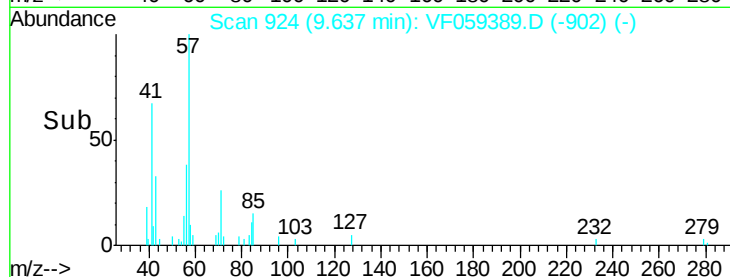
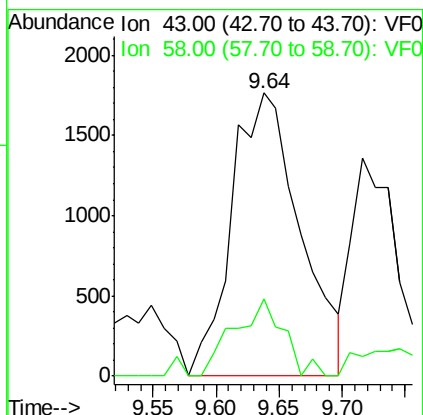
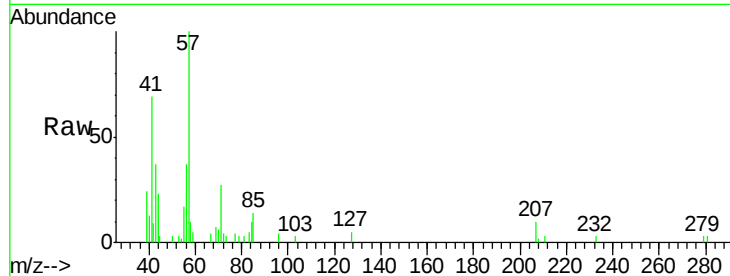




#59
2-Hexanone
Concen: Below Cal
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF059389.D
Acq: 2 Jul 2018 16:13

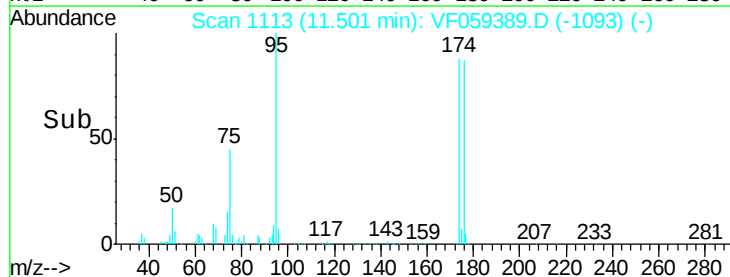
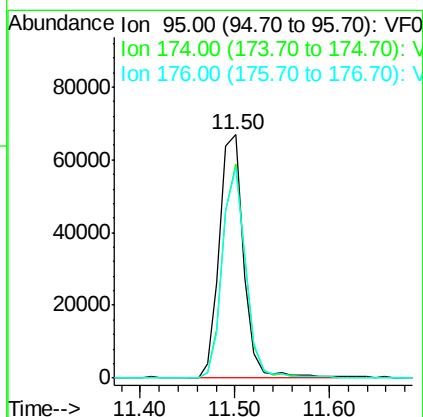
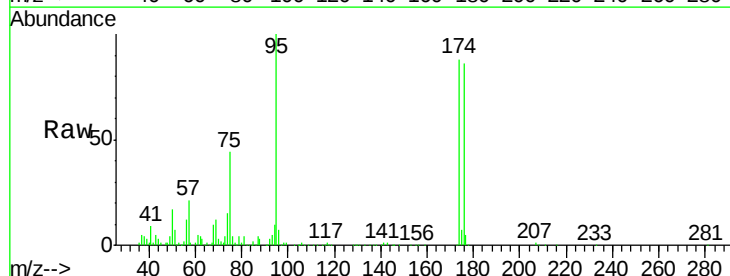
Instrument :
MSVOA_F
ClientSampleId :
CF-3(10.0)

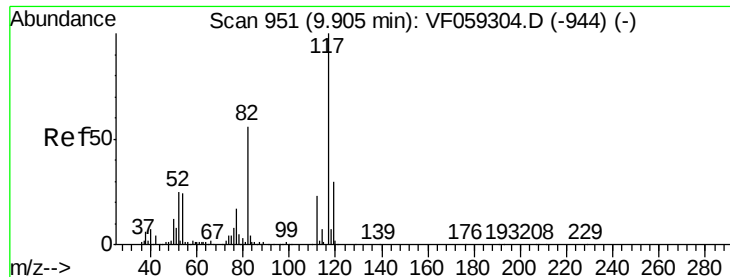
Tot Ion: 43 Resp: 6645
Ion Ratio Lower Upper
43 100
58 27.1 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 49.02 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059389.D
Acq: 2 Jul 2018 16:13

Tgt Ion: 95 Resp: 119260
Ion Ratio Lower Upper
95 100
174 88.1 0.0 165.2
176 86.3 0.0 161.0

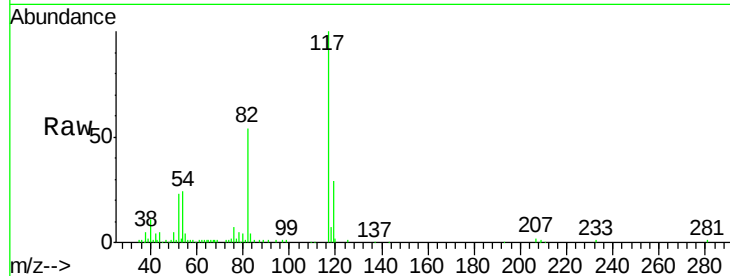




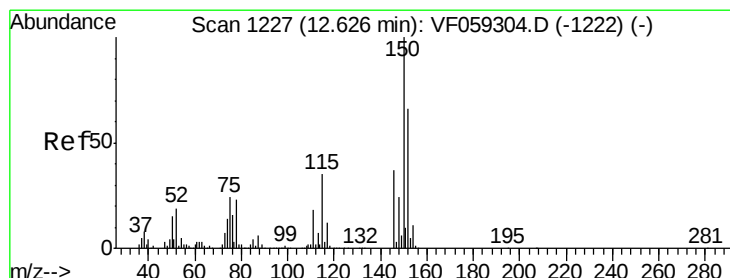
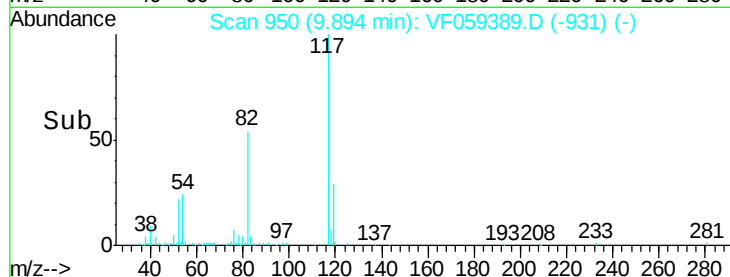
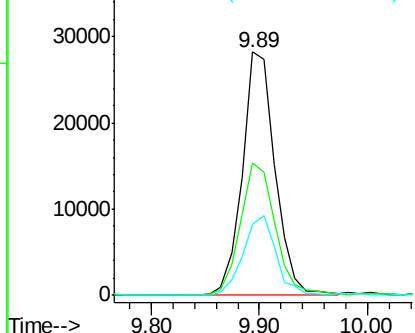
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.89 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059389.D
Acq: 2 Jul 2018 16:13

Instrument :
MSVOA_F
ClientSampleId :
CF-3(10.0)

Tot Ion:117 Resp: 59609
Ion Ratio Lower Upper
117 100
82 54.4 44.6 66.8
119 28.9 24.1 36.1

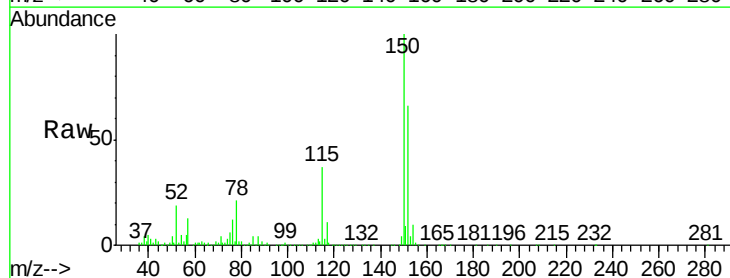


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

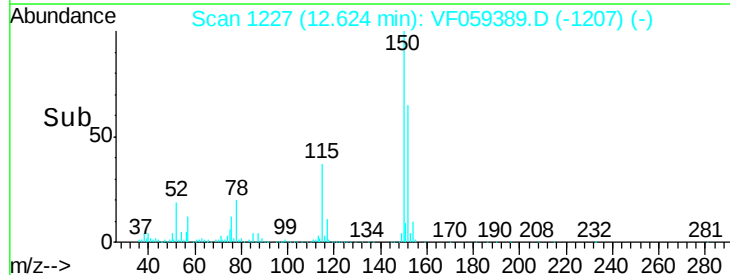
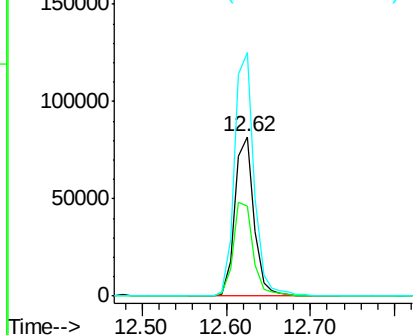


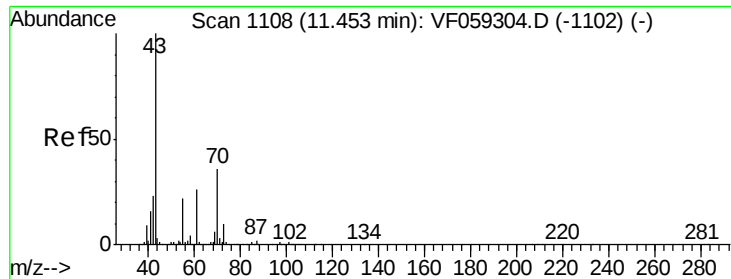
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059389.D
Acq: 2 Jul 2018 16:13

Tgt Ion:152 Resp: 129271
Ion Ratio Lower Upper
152 100
115 56.1 27.1 81.3
150 152.5 0.0 305.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 1.24 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

Tot Ion: 43 Resp: 3377

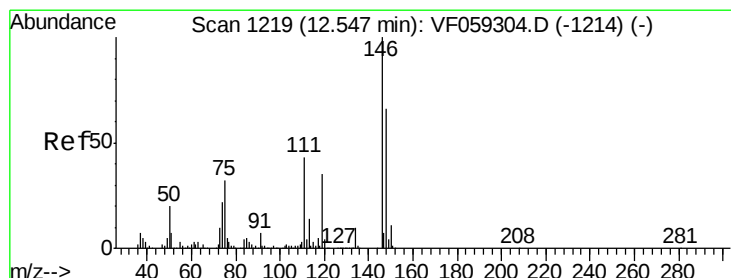
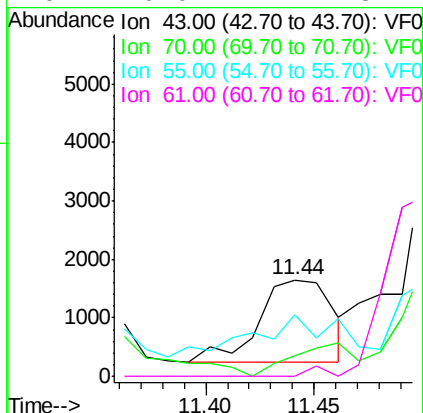
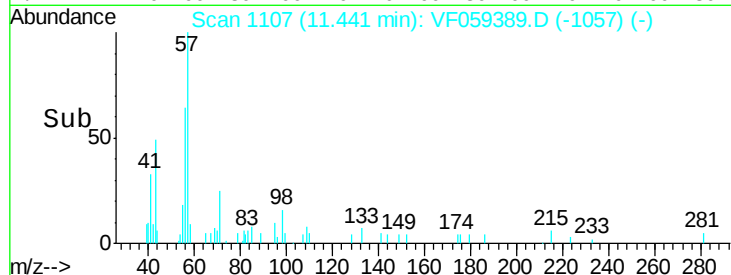
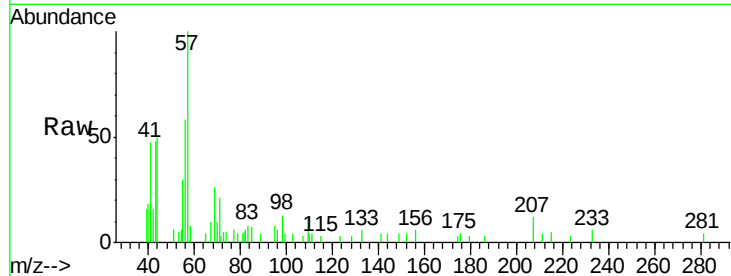
Ion Ratio Lower Upper

43 100

70 21.3 28.8 43.2#

55 63.3 17.4 26.0#

61 0.0 21.1 31.7#



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.55 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

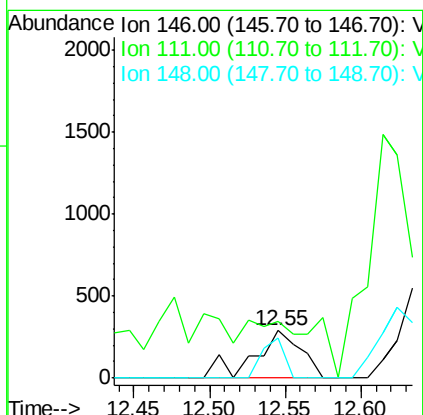
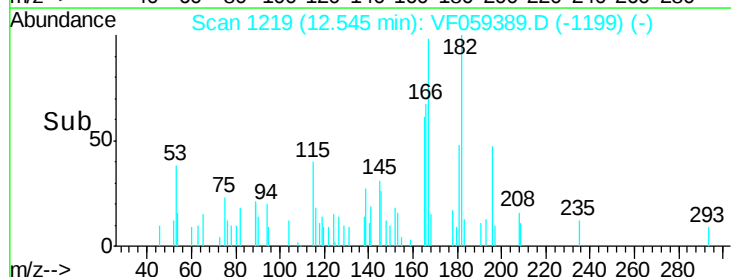
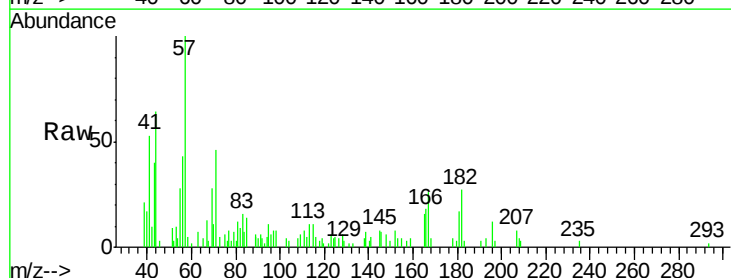
Tgt Ion: 146 Resp: 629

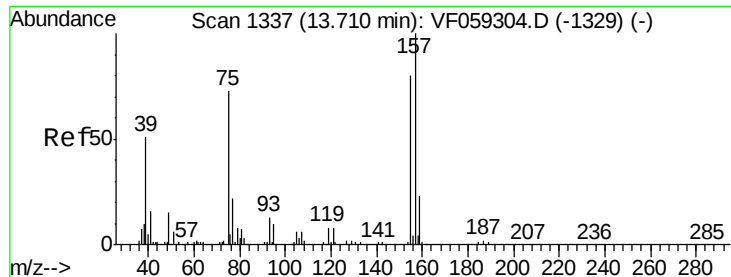
Ion Ratio Lower Upper

146 100

111 120.4 21.4 64.2#

148 85.8 32.8 98.4





#92

1,2-Dibromo-3-Chloropropane

Concen: 19.27 ug/l

RT: 13.75 min Scan# 1341

Delta R.T. 0.04 min

Lab File: VF059389.D

Acq: 2 Jul 2018 16:13

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

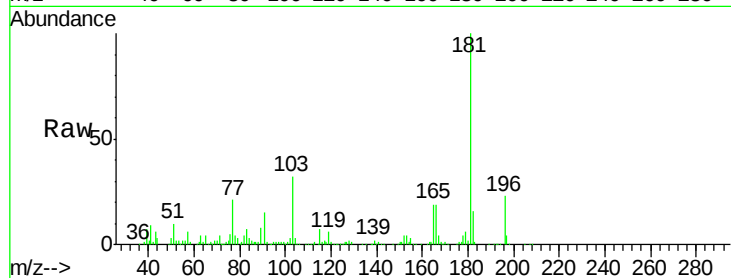
Tot Ion: 75 Resp: 8123

Ion Ratio Lower Upper

75 100

155 118.2 54.6 163.8

157 8.0 68.7 205.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

