

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059399.D
 Acq On : 2 Jul 2018 20:51
 Operator : VA/AP
 Sample : J3802-05RE
 Misc : 6.01µ/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-5(6.0)RE

Quant Time: Jul 03 01:11:32 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	5.01	168	151349	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.74	114	227500	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.89	117	200939	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	118464	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	109692	56.10	ug/l	0.00
Spiked Amount			Recovery	=	112.20%	
35) Dibromofluoromethane	4.28	113	103041	61.99	ug/l	0.00
Spiked Amount			Recovery	=	123.98%	
50) Toluene-d8	7.69	98	245402	59.63	ug/l	-0.01
Spiked Amount			Recovery	=	119.26%	
62) 4-Bromofluorobenzene	11.49	95	123782	53.32	ug/l	-0.01
Spiked Amount			Recovery	=	106.64%	

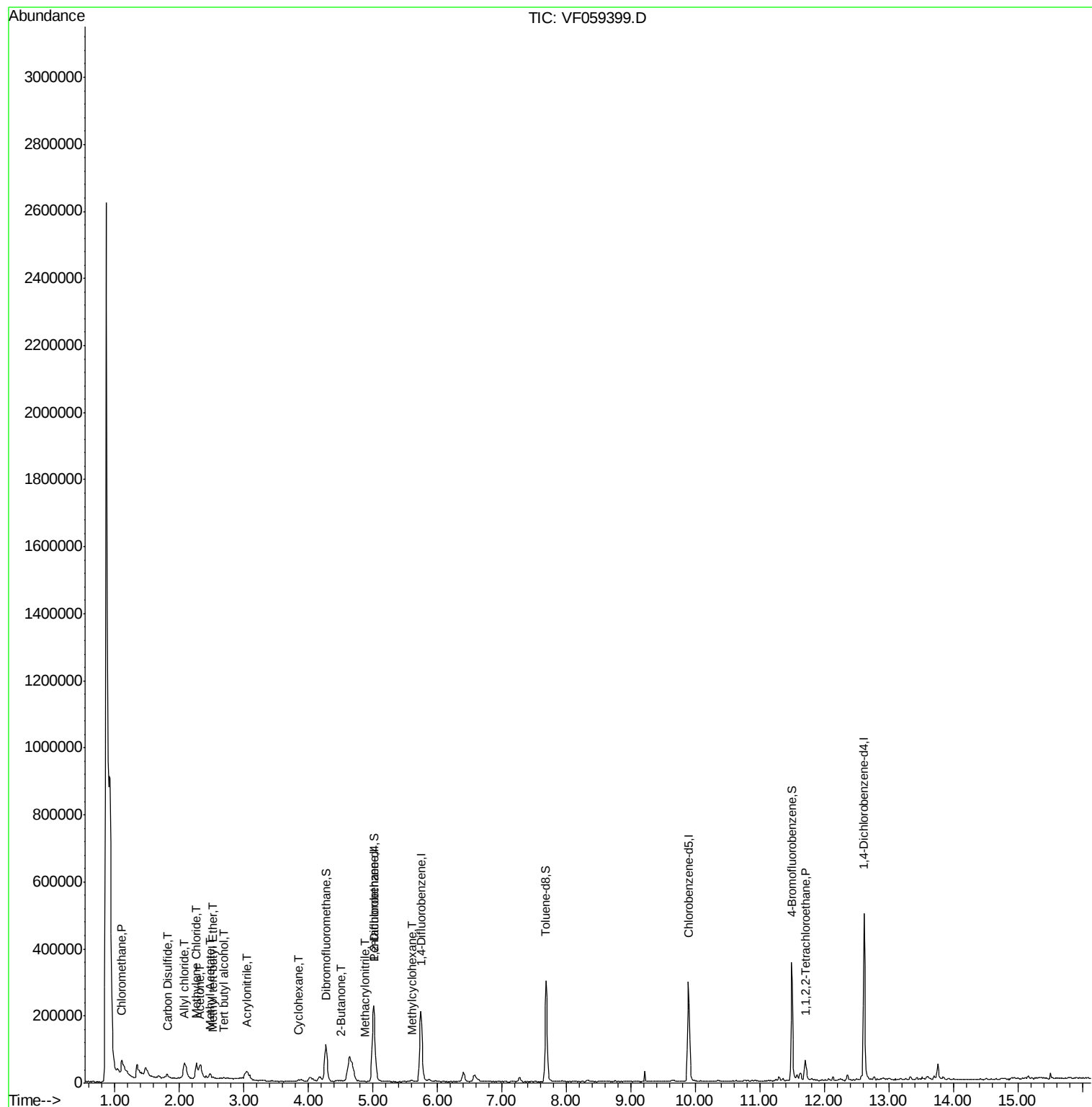
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	4608	4.96	ug/l	# 57
5) Bromomethane	1.35	94	1073	Below	Cal	# 49
11) Tert butyl alcohol	2.68	59	1908	14.66	ug/l	# 66
13) Acrolein	1.95	56	996	Below	Cal	# 85
14) Allyl chloride	2.09	41	29478	17.60	ug/l	# 45
15) Acrylonitrile	3.04	53	1267	5.53	ug/l	# 28
16) Acetone	2.33	43	56080	109.09	ug/l	100
17) Carbon Disulfide	1.83	76	2459	1.17	ug/l	# 40
18) Methyl Acetate	2.46	43	3543	2.92	ug/l	# 75
19) Methyl tert-butyl Ether	2.53	73	4224	1.27	ug/l	# 82
20) Methylene Chloride	2.27	84	16005	8.46	ug/l	# 89
25) 2-Butanone	4.50	43	3919	3.92	ug/l	# 82
28) Bromochloromethane	3.92	49	63	Below	Cal	# 6
29) Tetrahydrofuran	4.22	42	342	Below	Cal	# 36
31) Cyclohexane	3.83	56	4846	3.22	ug/l	95
37) Ethyl Acetate	4.26	43	939	Below	Cal	# 26
39) Methylcyclohexane	5.61	83	3003	1.71	ug/l	# 62
41) Methacrylonitrile	4.88	41	683	1.01	ug/l	# 47
49) 1,4-Dioxane	6.85	88	68	Below	Cal	# 17
59) 2-Hexanone	9.62	43	742	Below	Cal	# 30
75) 1,1,2,2-Tetrachloroethane	11.71	83	3657	2.10	ug/l	# 24
87) 1,3-Dichlorobenzene	12.54	146	107	Below	Cal	# 82

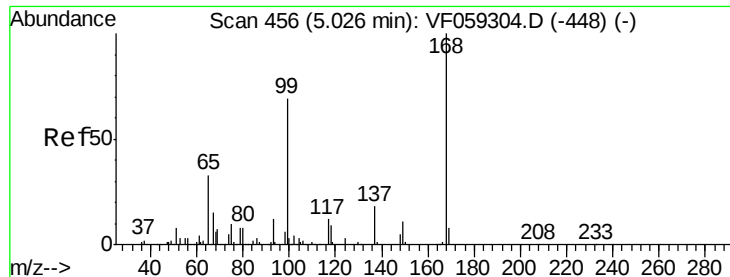
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059399.D

Acq: 2 Jul 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

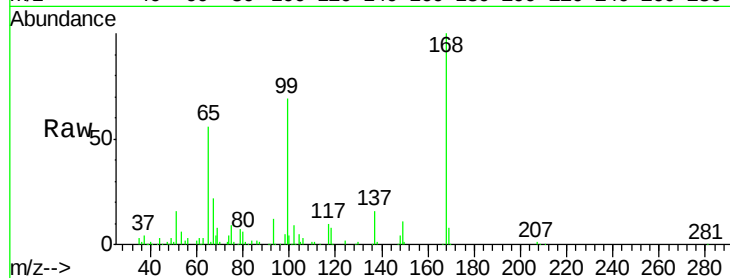
CF-5(6.0)RE

Tot Ion:168 Resp: 151349

Ion Ratio Lower Upper

168 100

99 68.7 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.01

60000

50000

40000

30000

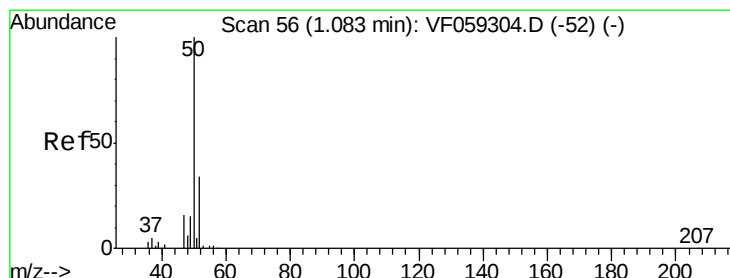
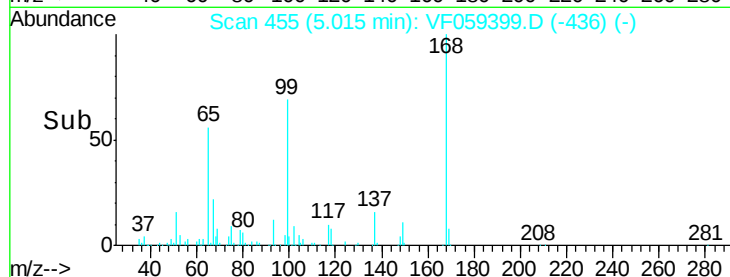
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: 4.96 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059399.D

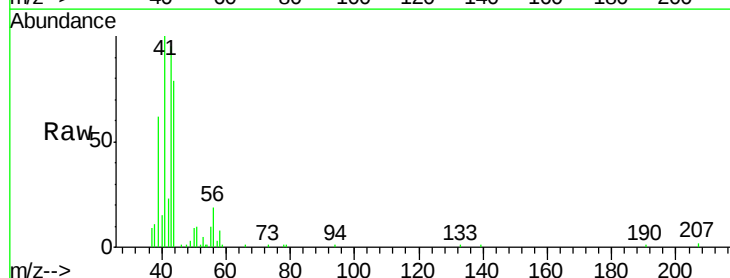
Acq: 2 Jul 2018 20:51

Tgt Ion: 50 Resp: 4608

Ion Ratio Lower Upper

50 100

52 8.7 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.10

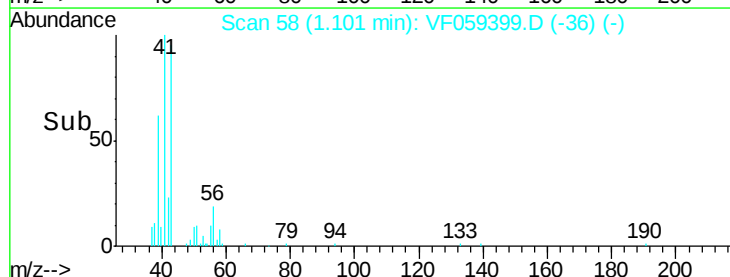
1000

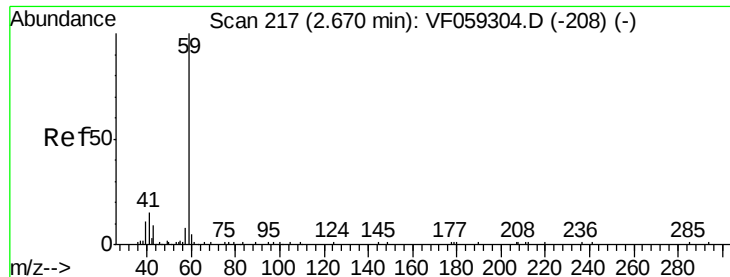
500

0

Time-->

1.00 1.10 1.20



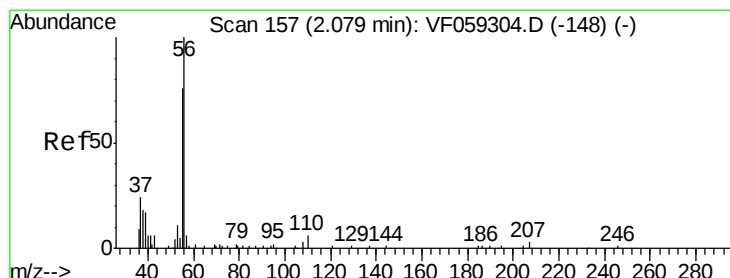
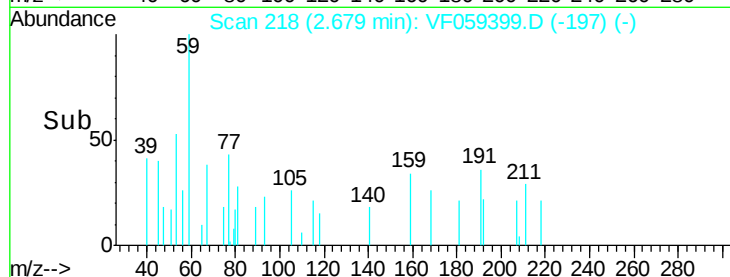
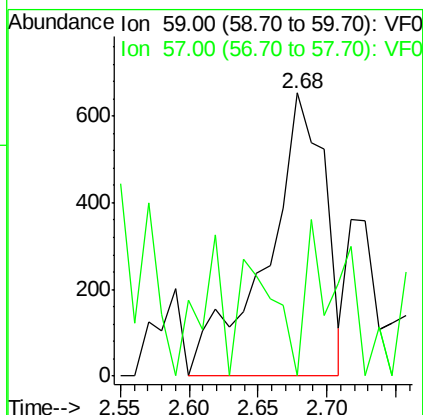
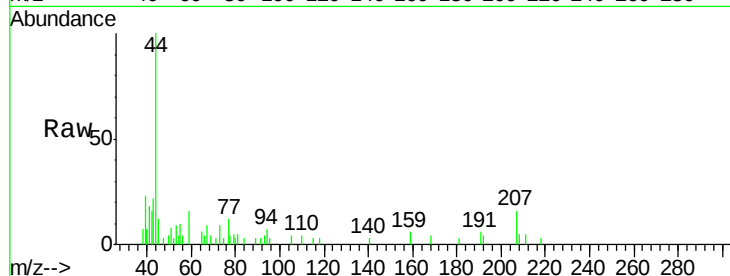


#11

Tert butyl alcohol
 Concen: 14.66 ug/l
 RT: 2.68 min Scan# 218
 Delta R.T. 0.01 min
 Lab File: VF059399.D
 Acq: 2 Jul 2018 20:51

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-5(6.0)RE

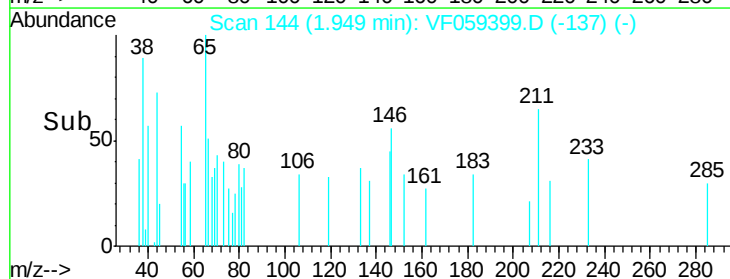
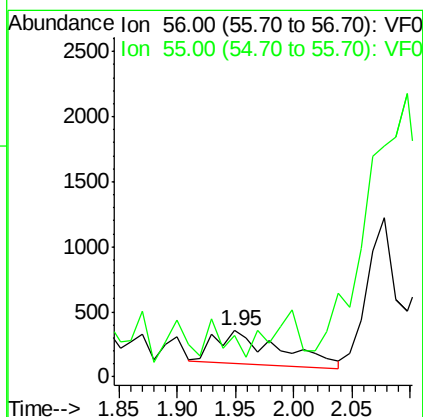
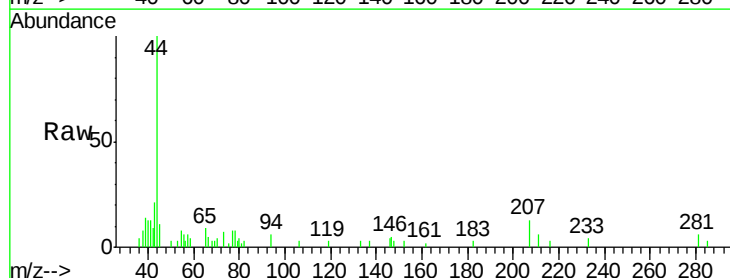
Tot Ion: 59 Resp: 1908
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.0 16.4#

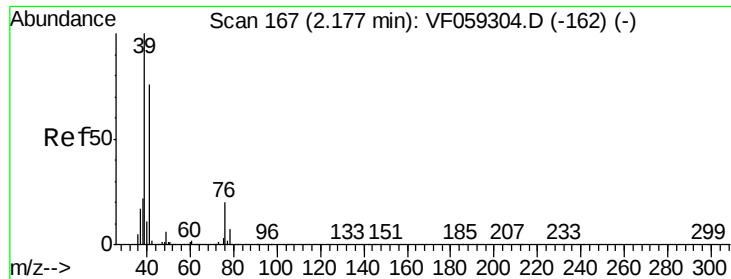


#13

Acrolein
 Concen: Below Cal
 RT: 1.95 min Scan# 144
 Delta R.T. -0.13 min
 Lab File: VF059399.D
 Acq: 2 Jul 2018 20:51

Tgt Ion: 56 Resp: 996
 Ion Ratio Lower Upper
 56 100
 55 91.2 62.4 93.6

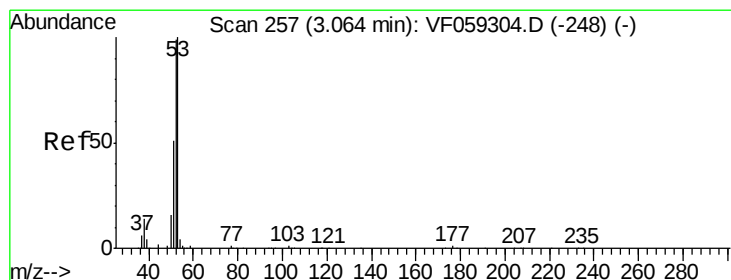
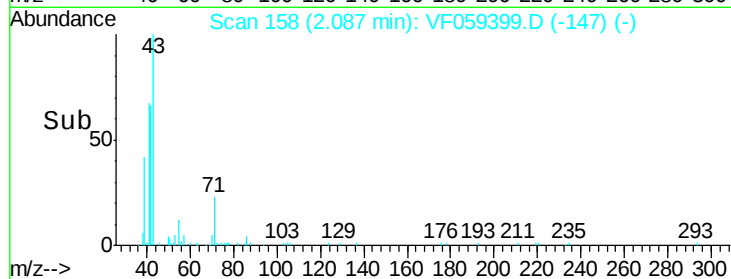
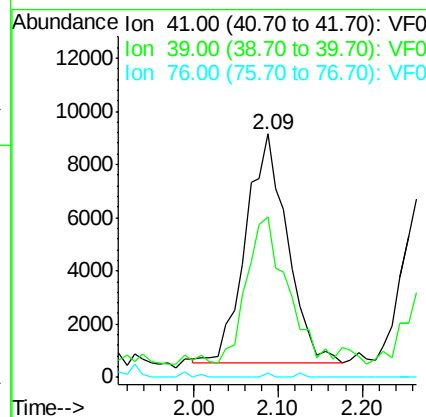
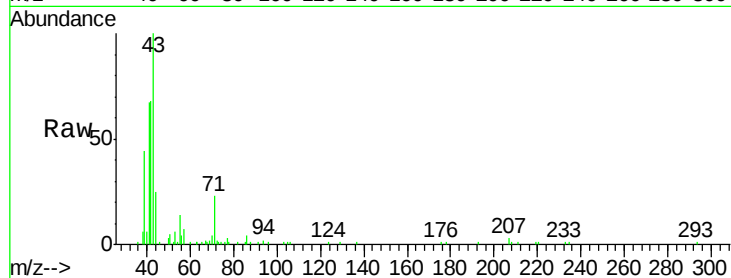




#14
Allvl chloride
Concen: 17.60 ug/l
RT: 2.09 min Scan# 158
Delta R.T. -0.09 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

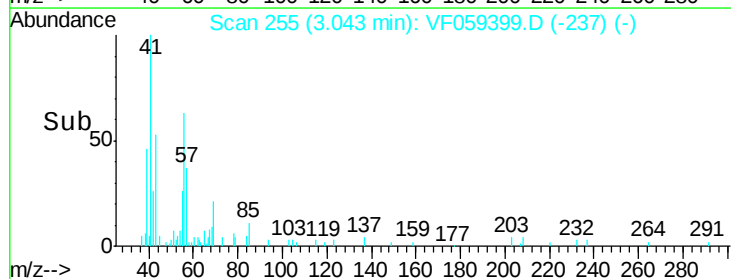
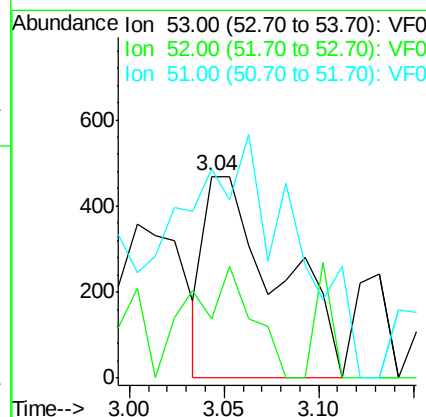
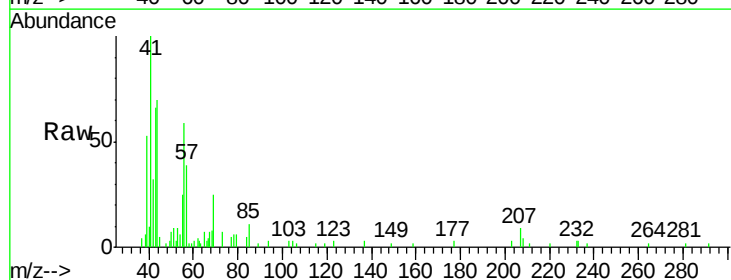
Instrument :
MSVOA_F
ClientSampleId :
CF-5(6.0)RE

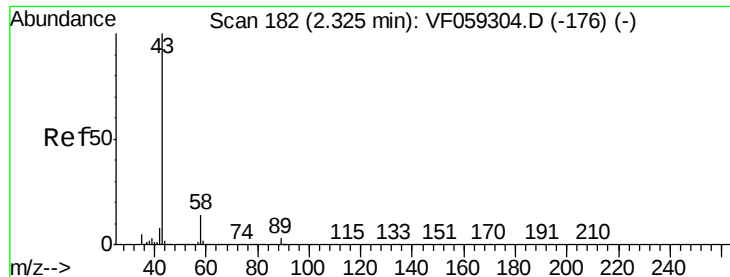
Tot Ion: 41 Resp: 29478
Ion Ratio Lower Upper
41 100
39 65.7 105.6 158.4#
76 1.9 21.6 32.4#



#15
Acrylonitrile
Concen: 5.53 ug/l
RT: 3.04 min Scan# 255
Delta R.T. -0.02 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

Tgt Ion: 53 Resp: 1267
Ion Ratio Lower Upper
53 100
52 29.2 79.2 118.8#
51 103.4 40.9 61.3#





#16

Acetone

Concen: 109.09 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059399.D

Acq: 2 Jul 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

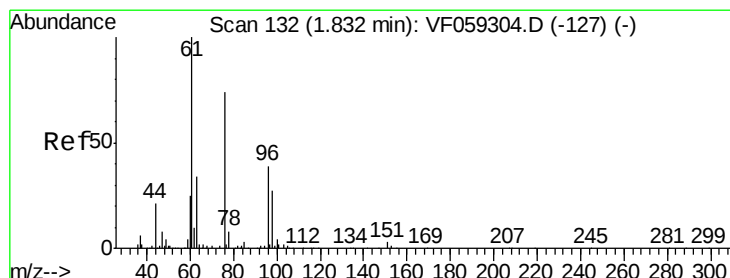
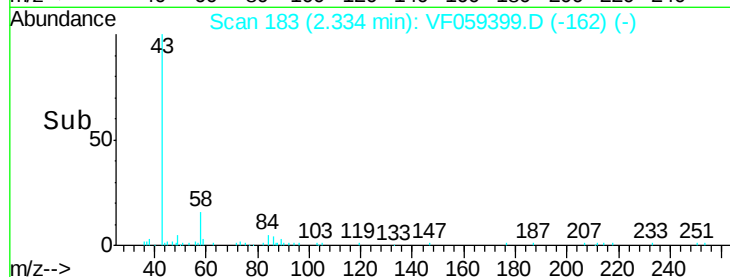
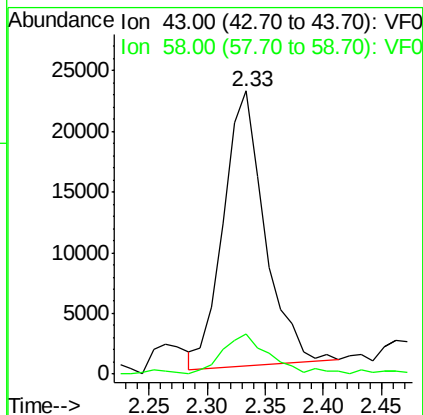
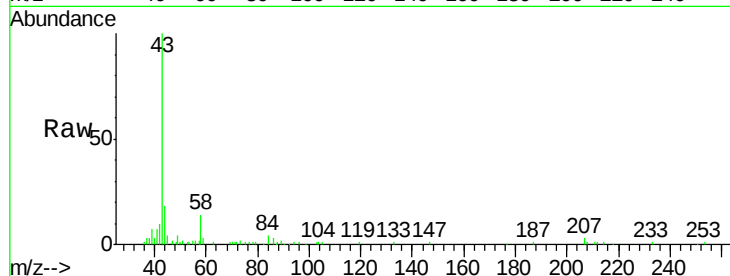
CF-5(6.0)RE

Tot Ion: 43 Resp: 56080

Ion Ratio Lower Upper

43 100

58 14.4 11.4 17.0



#17

Carbon Disulfide

Concen: 1.17 ug/l

RT: 1.83 min Scan# 132

Delta R.T. -0.00 min

Lab File: VF059399.D

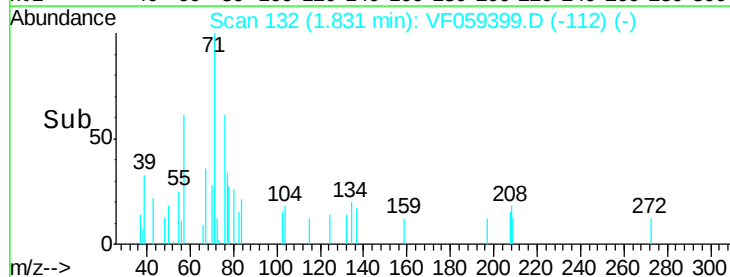
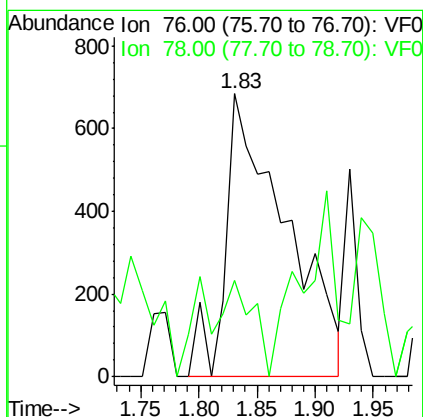
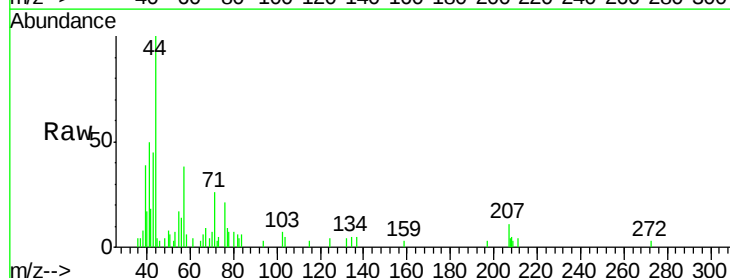
Acq: 2 Jul 2018 20:51

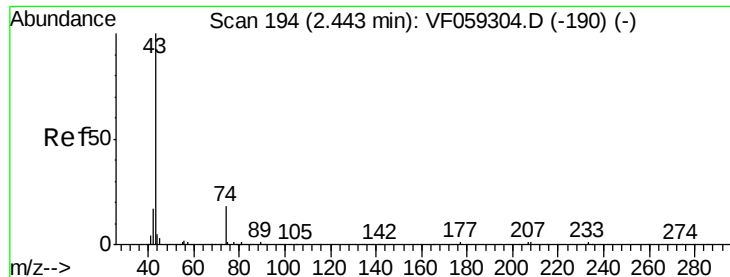
Tgt Ion: 76 Resp: 2459

Ion Ratio Lower Upper

76 100

78 33.9 8.9 13.3#

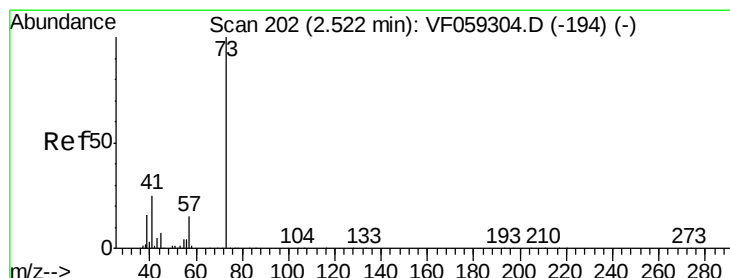
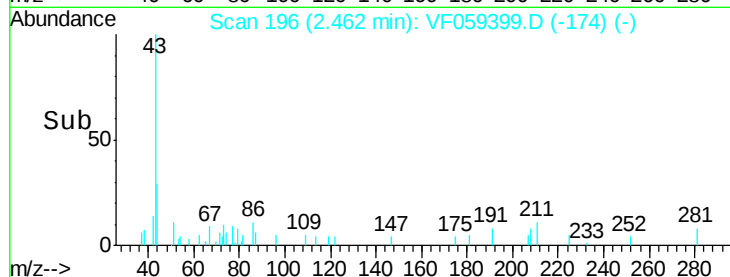
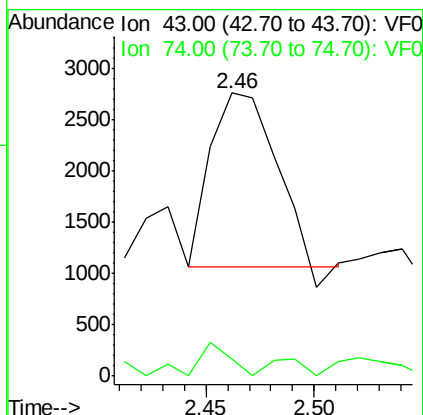
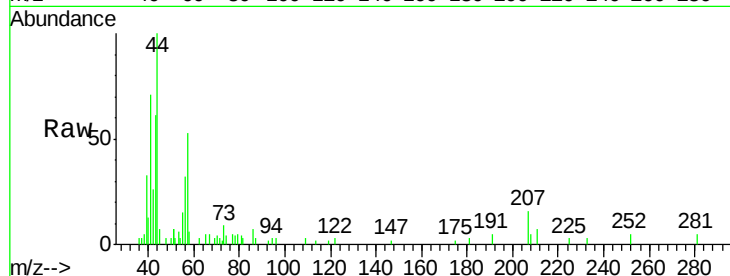




#18
Methyl Acetate
Concen: 2.92 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.02 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

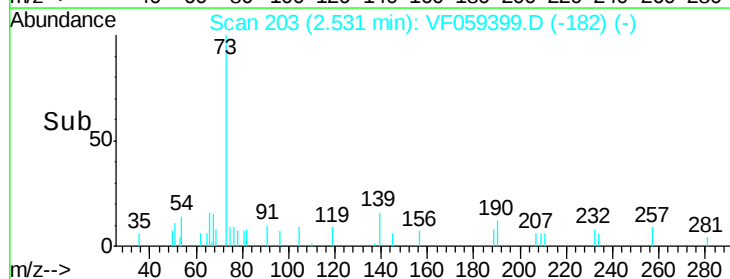
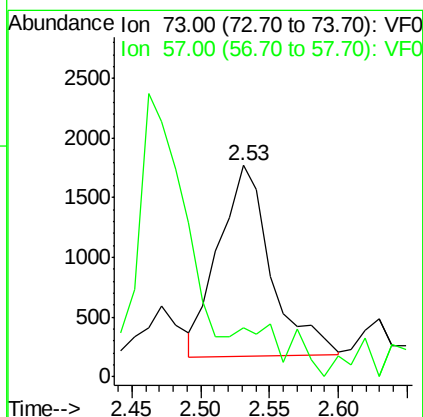
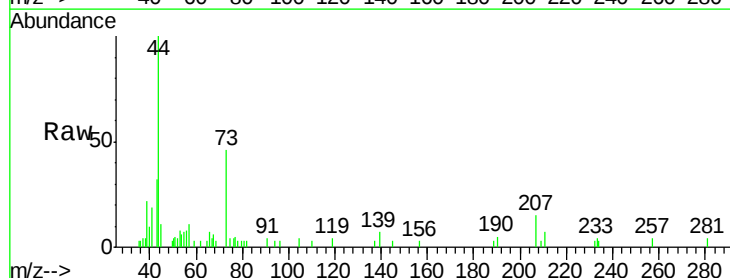
Instrument :
MSVOA_F
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CF-5(6.0)RE

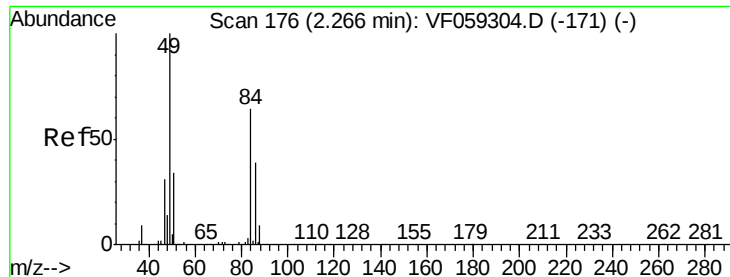
Tot Ion: 43 Resp: 3543
Ion Ratio Lower Upper
43 100
74 5.9 13.3 19.9#



#19
Methyl tert-butyl Ether
Concen: 1.27 ug/l
RT: 2.53 min Scan# 203
Delta R.T. 0.01 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

Tgt Ion: 73 Resp: 4224
Ion Ratio Lower Upper
73 100
57 23.0 12.3 18.5#

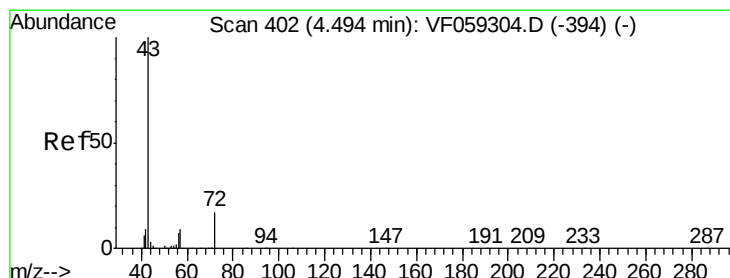
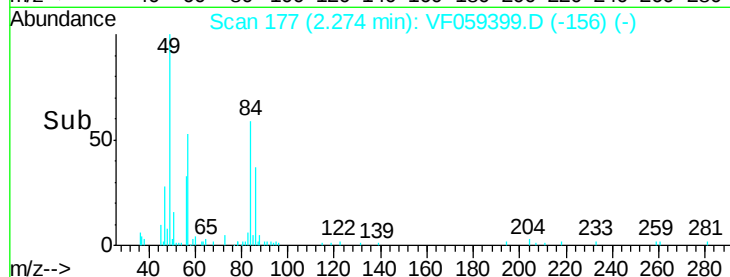
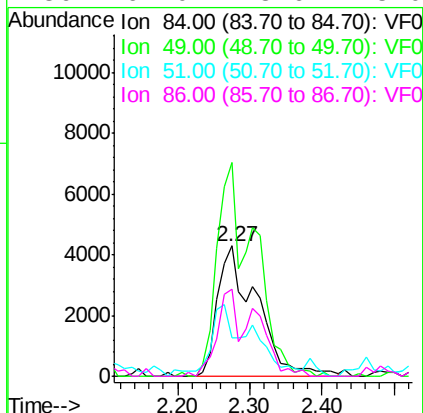
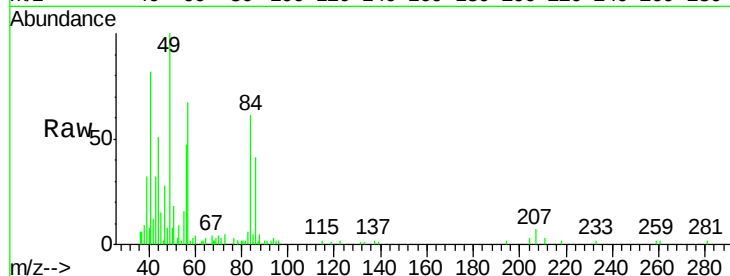




#20
Methylene Chloride
Concen: 8.46 ug/l
RT: 2.27 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

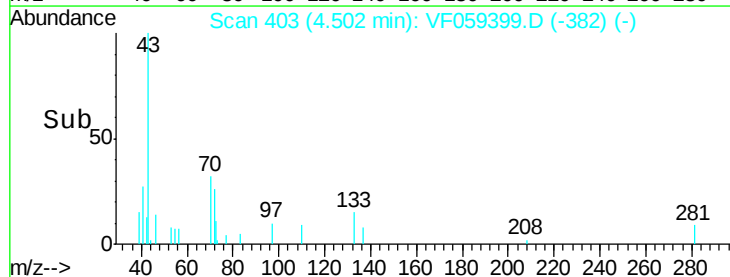
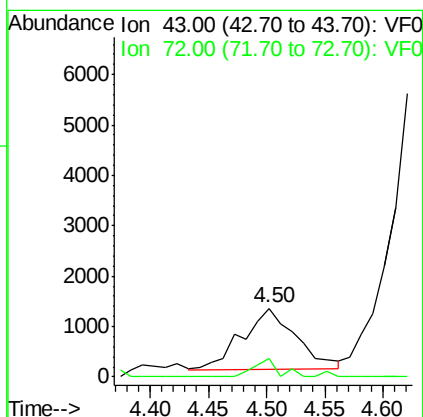
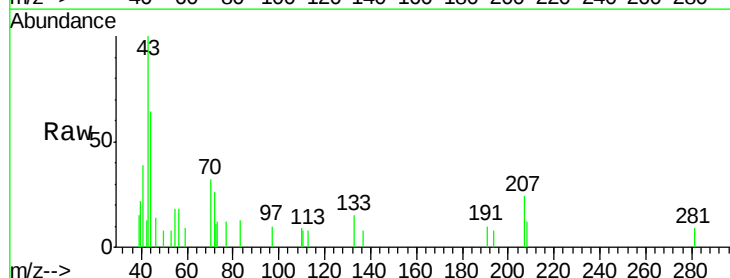
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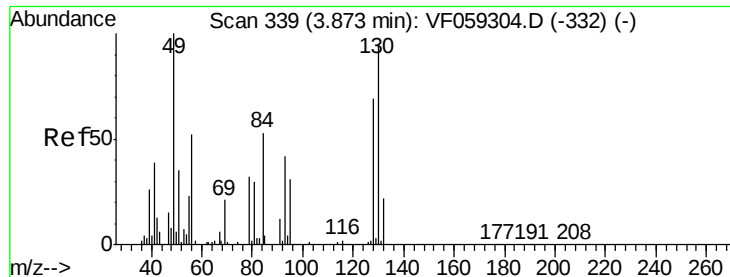
Tot Ion: 84 Resp: 16005
Ion Ratio Lower Upper
84 100
49 163.7 126.5 189.7
51 29.8 42.9 64.3#
86 67.0 48.6 73.0



#25
2-Butanone
Concen: 3.92 ug/l
RT: 4.50 min Scan# 403
Delta R.T. 0.01 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

Tgt Ion: 43 Resp: 3919
Ion Ratio Lower Upper
43 100
72 25.9 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.92 min Scan# 344

Delta R.T. 0.05 min

Lab File: VF059399.D

Acq: 2 Jul 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

CF-5(6.0)RE

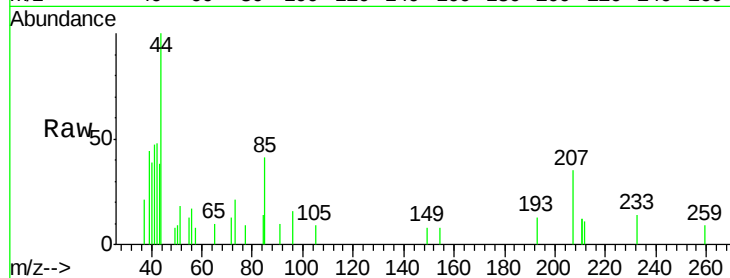
Tot Ion: 49 Resp: 63

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

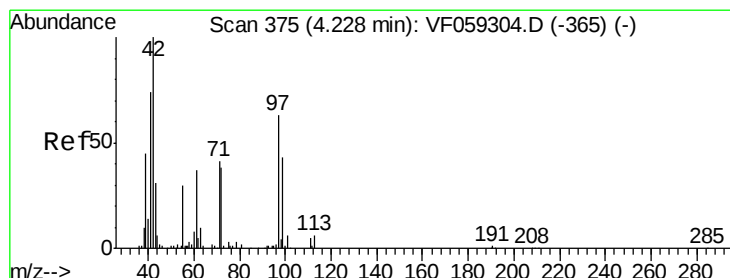
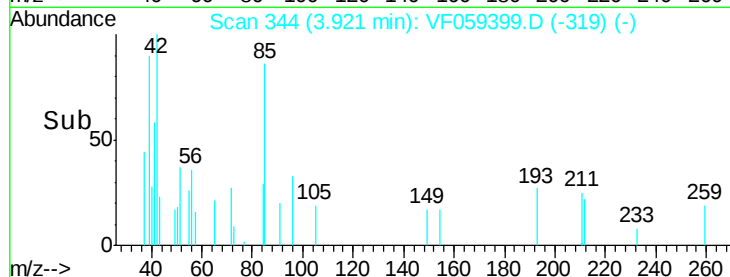
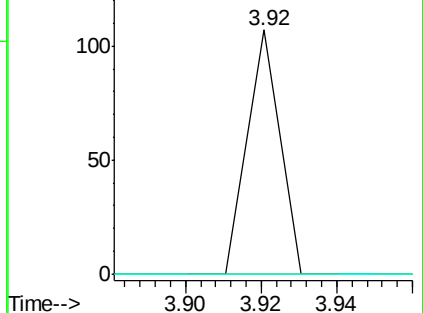
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.22 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF059399.D

Acq: 2 Jul 2018 20:51

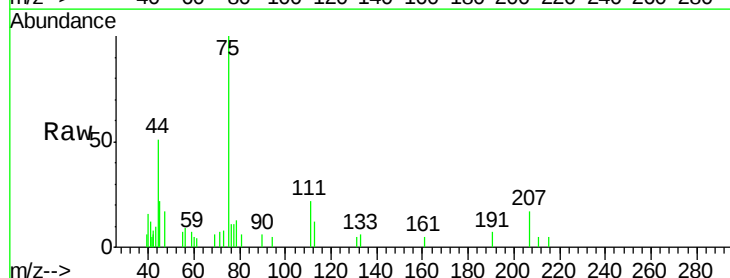
Tgt Ion: 42 Resp: 342

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

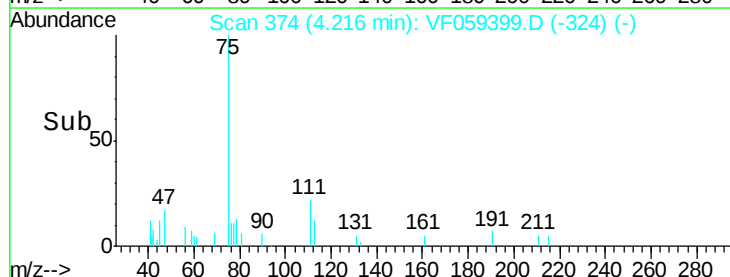
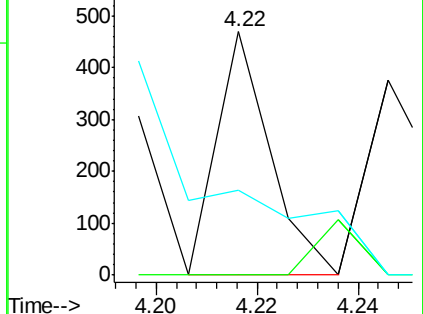
71 0.0 32.5 48.7#

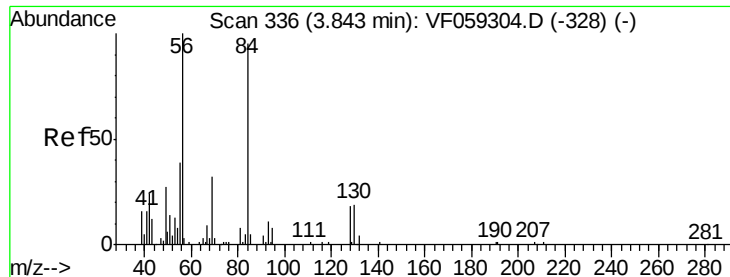


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

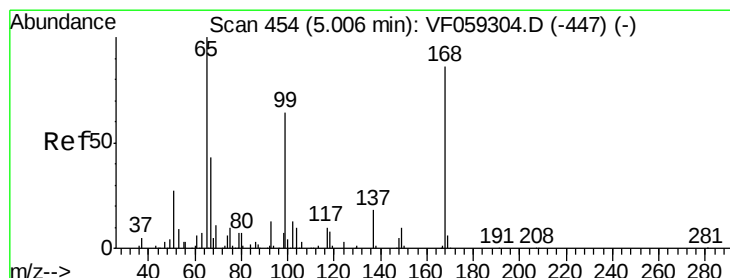
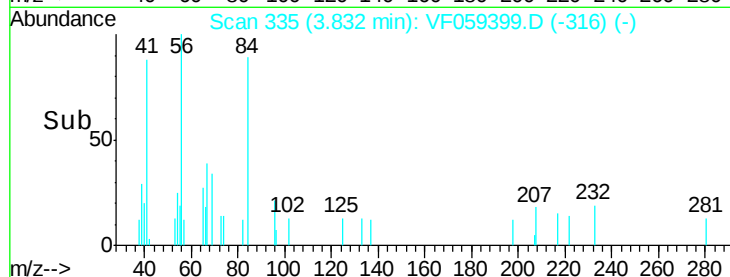
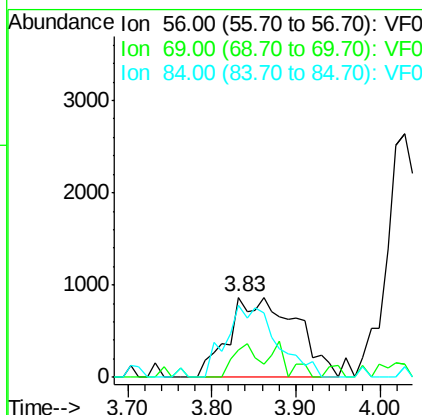
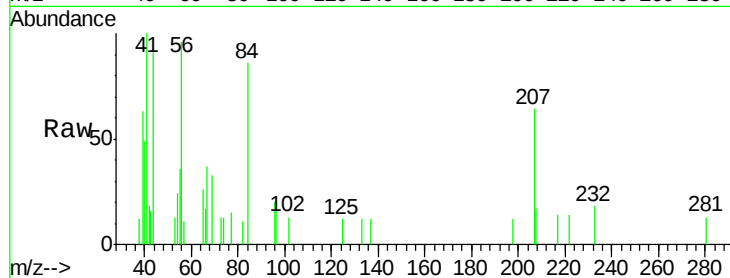




#31
Cyclohexane
Concen: 3.22 ug/l
RT: 3.83 min Scan# 335
Delta R.T. -0.01 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

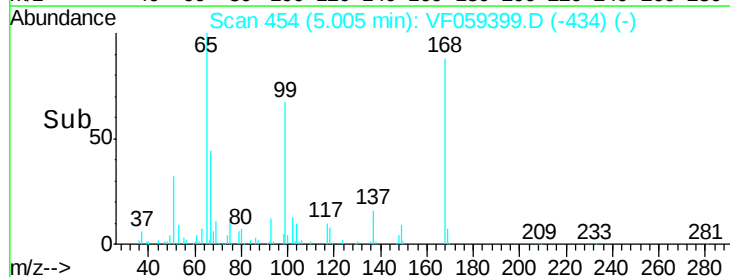
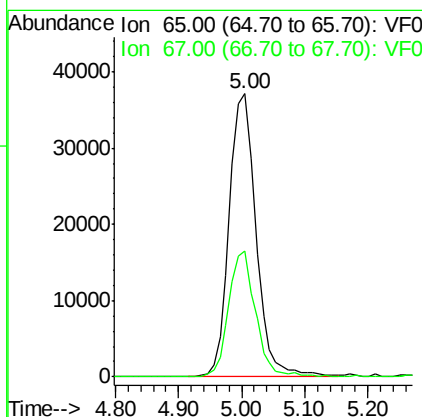
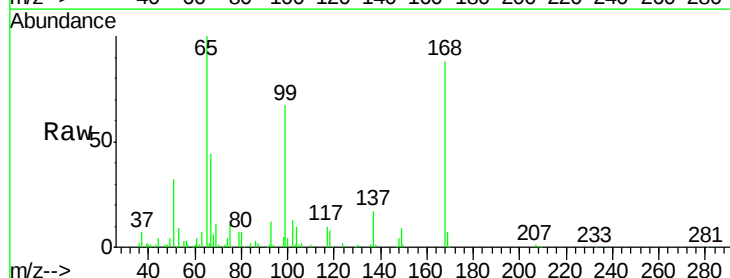
Instrument :
MSVOA_F
ClientSampleId :
CF-5(6.0)RE

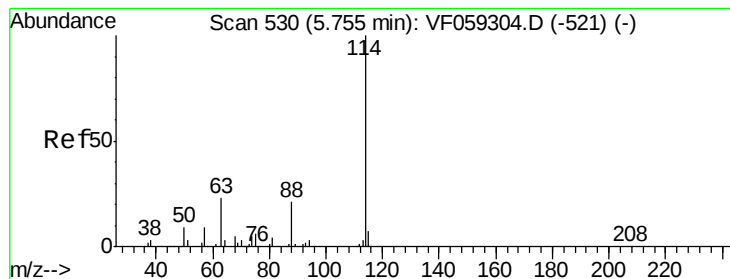
Tot Ion: 56 Resp: 4846
Ion Ratio Lower Upper
56 100
69 34.0 25.8 38.8
84 89.3 75.6 113.4



#33
1,2-Dichloroethane-d4
Concen: 56.10 ug/l
RT: 5.00 min Scan# 454
Delta R.T. -0.00 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

Tgt Ion: 65 Resp: 109692
Ion Ratio Lower Upper
65 100
67 44.3 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: VF059399.D

Acq: 2 Jul 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

CF-5(6.0)RE

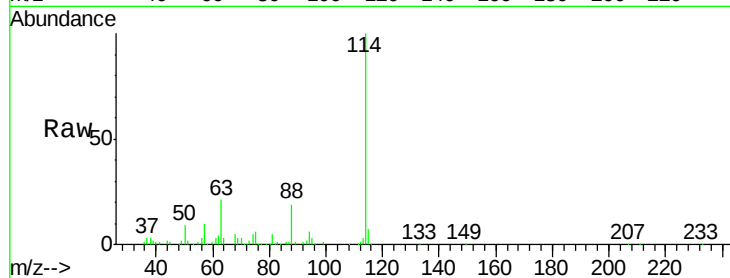
Tot Ion:114 Resp: 227500

Ion Ratio Lower Upper

114 100

63 20.8 0.0 45.8

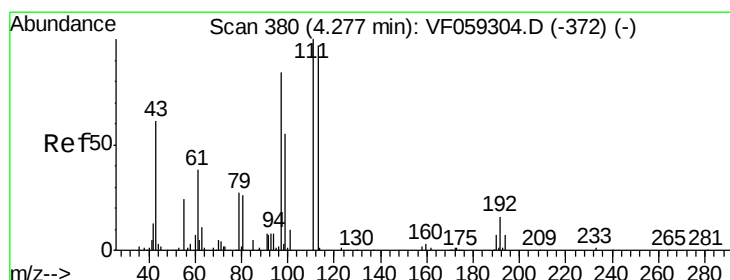
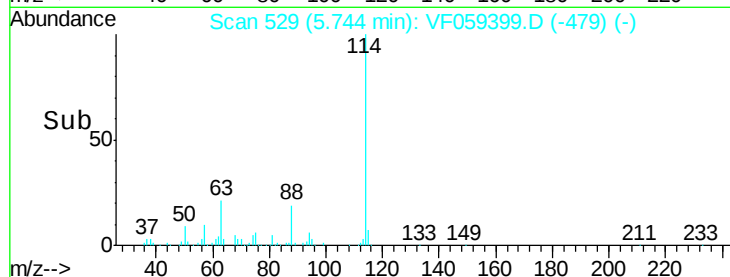
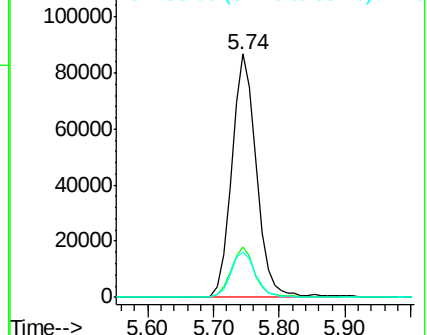
88 18.6 0.0 41.2



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: 61.99 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059399.D

Acq: 2 Jul 2018 20:51

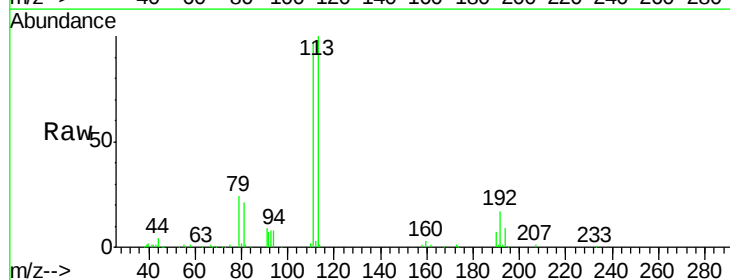
Tgt Ion:113 Resp: 103041

Ion Ratio Lower Upper

113 100

111 96.5 82.1 123.1

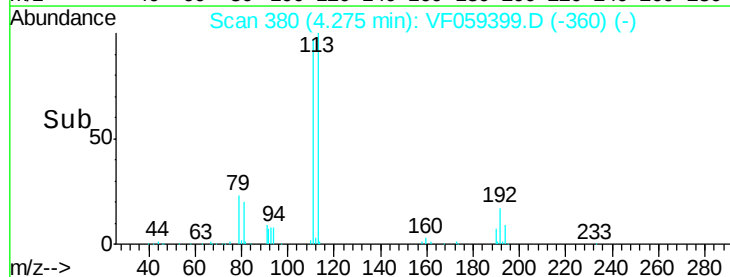
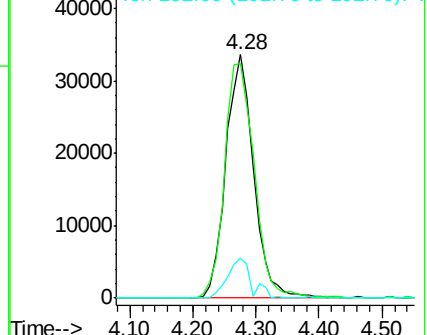
192 16.6 13.0 19.6

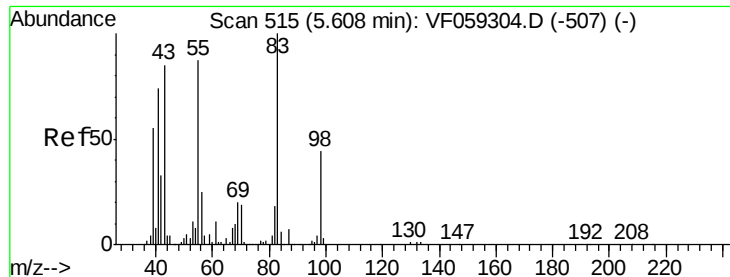


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

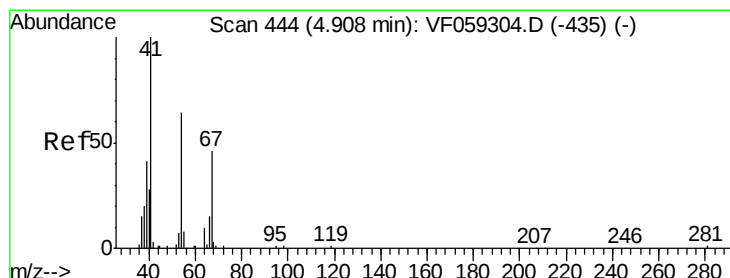
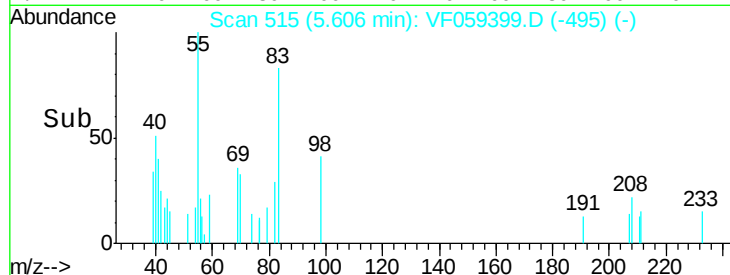
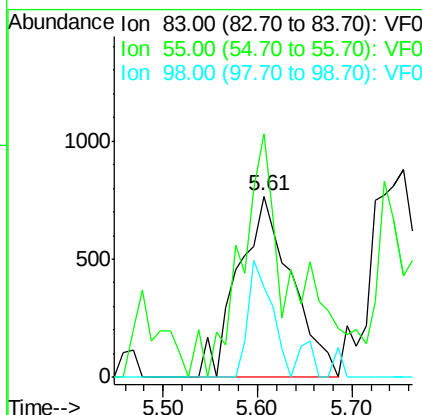
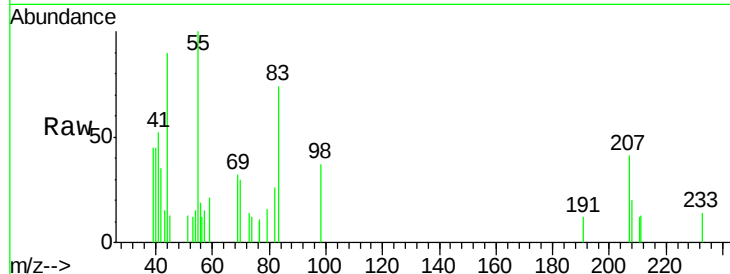




#39
Methylcyclohexane
Concen: 1.71 ug/l
RT: 5.61 min Scan# 515
Delta R.T. -0.00 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

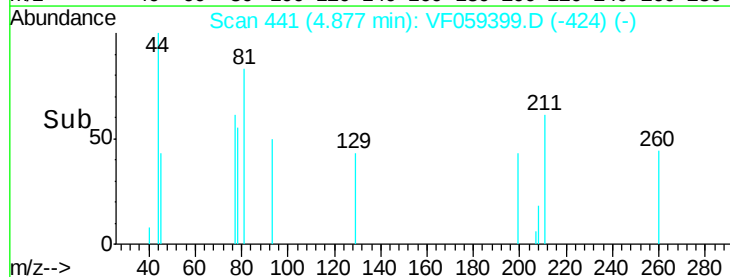
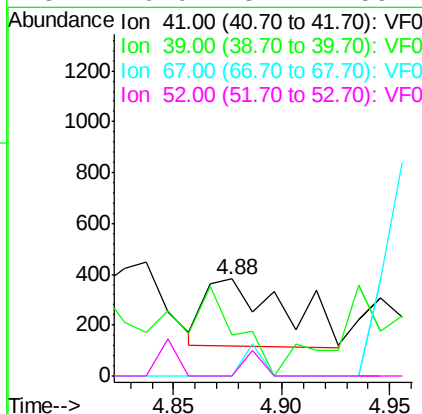
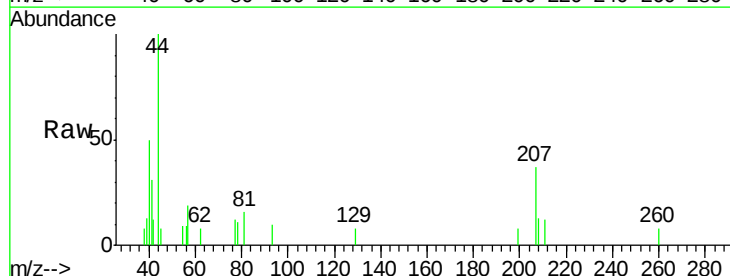
Instrument :
MSVOA_F
ClientSampleId :
CF-5(6.0)RE

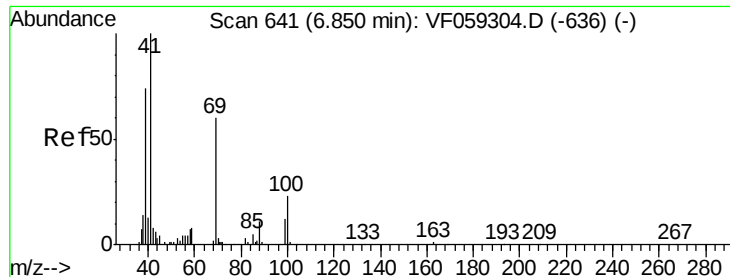
Tot Ion: 83 Resp: 3003
Ion Ratio Lower Upper
83 100
55 134.3 69.2 103.8#
98 49.8 35.0 52.6



#41
Methacrylonitrile
Concen: 1.01 ug/l
RT: 4.88 min Scan# 441
Delta R.T. -0.03 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

Tgt Ion: 41 Resp: 683
Ion Ratio Lower Upper
41 100
39 41.6 50.0 75.0#
67 0.0 37.0 55.6#
52 0.0 37.1 55.7#

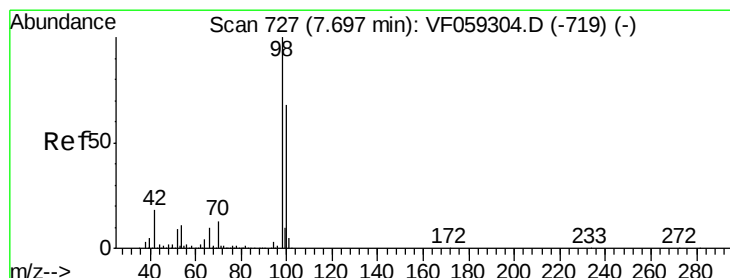
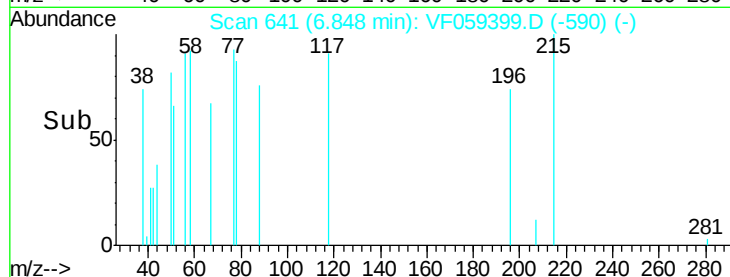
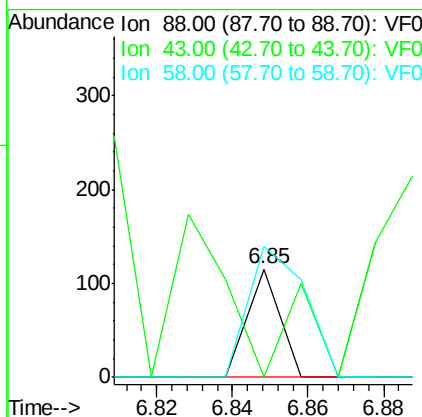
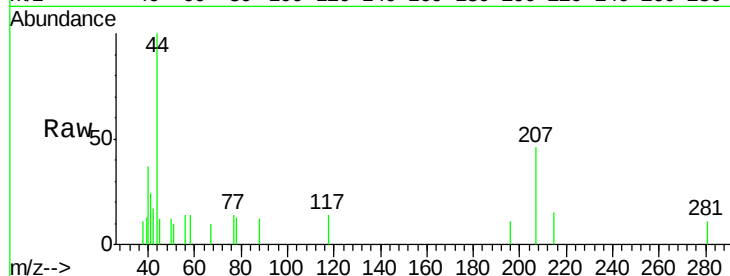




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.85 min Scan# 641
Delta R.T. -0.00 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

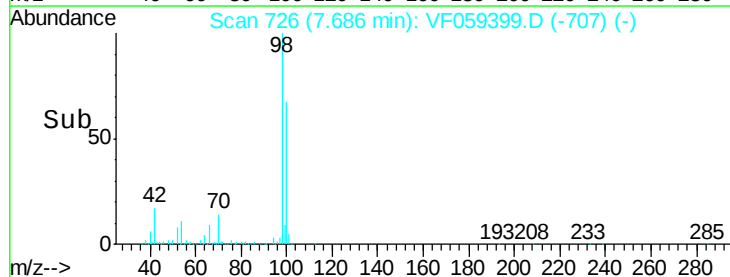
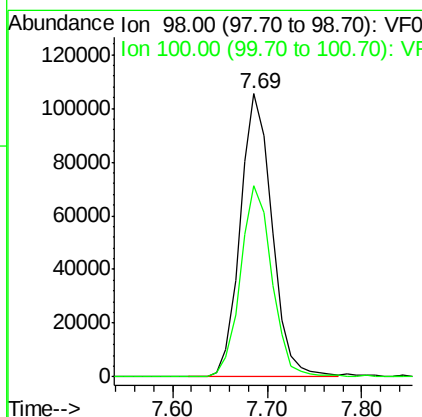
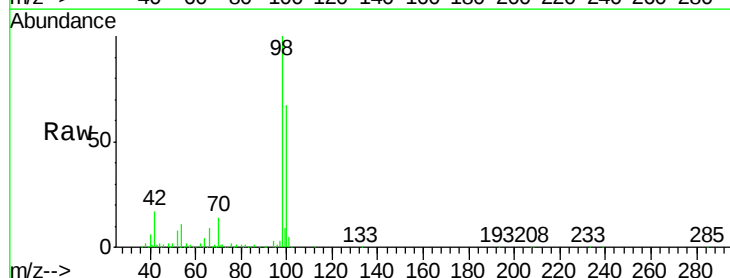
Instrument :
MSVOA_F
ClientSampleId :
CF-5(6.0)RE

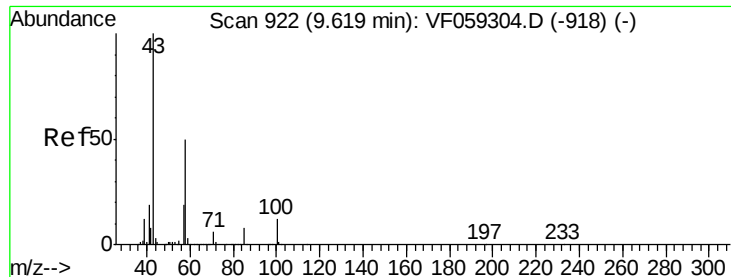
Tot Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 121.7 46.6 69.8#



#50
Toluene-d8
Concen: 59.63 ug/l
RT: 7.69 min Scan# 726
Delta R.T. -0.01 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

Tgt Ion: 98 Resp: 245402
Ion Ratio Lower Upper
98 100
100 67.4 54.6 82.0





#59

2-Hexanone

Concen: Below Cal

RT: 9.62 min Scan# 922

Delta R.T. -0.00 min

Lab File: VF059399.D

Acq: 2 Jul 2018 20:51

Instrument :

MSVOA_F

ClientSampled :

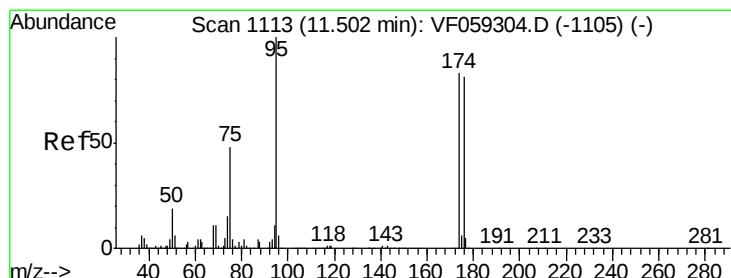
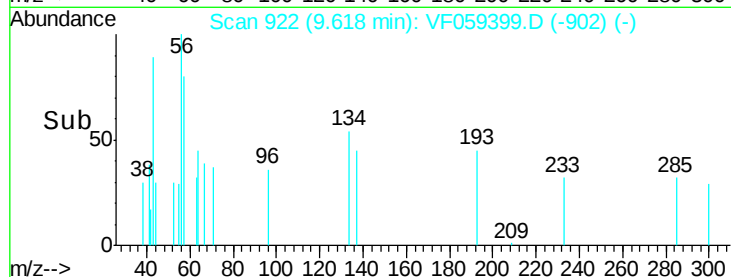
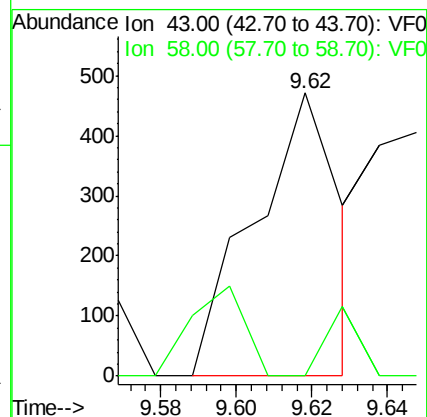
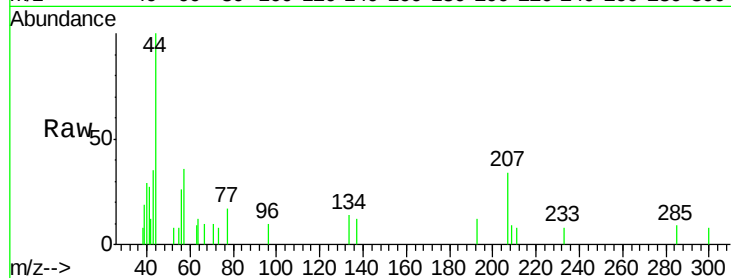
CF-5(6.0)RE

Tot Ion: 43 Resp: 742

Ion Ratio Lower Upper

43 100

58 0.0 23.3 69.9#



#62

4-Bromofluorobenzene

Concen: 53.32 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059399.D

Acq: 2 Jul 2018 20:51

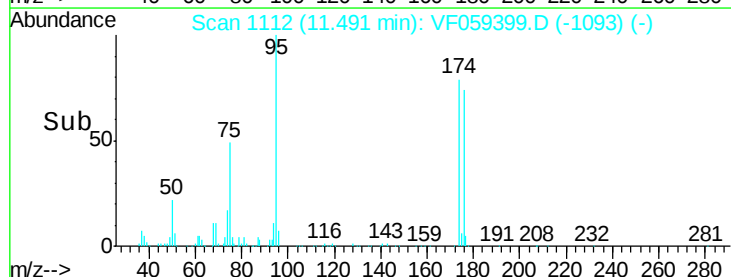
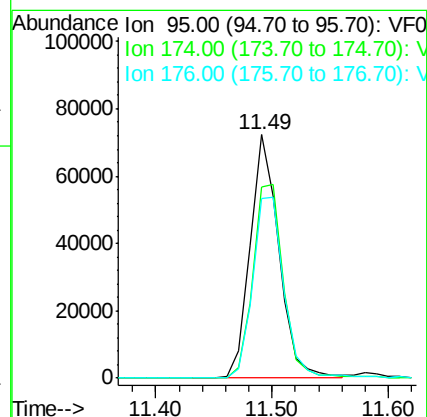
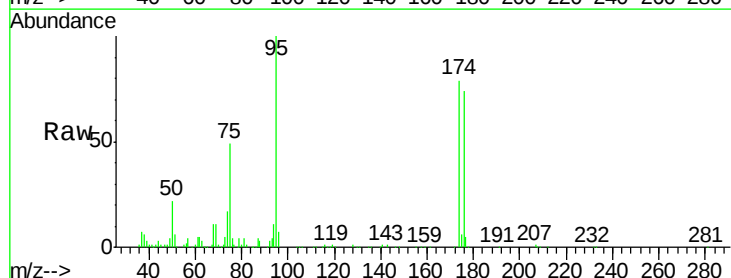
Tgt Ion: 95 Resp: 123782

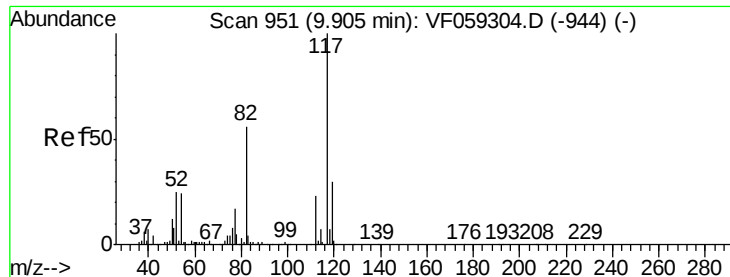
Ion Ratio Lower Upper

95 100

174 78.6 0.0 165.2

176 74.0 0.0 161.0

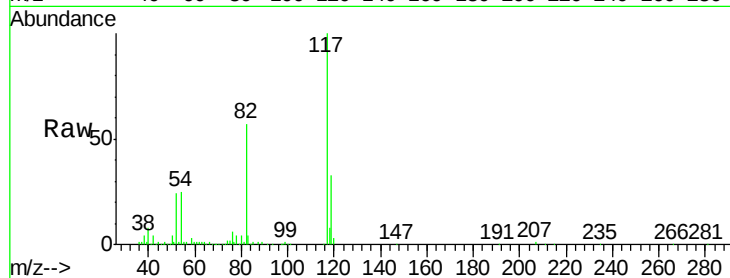




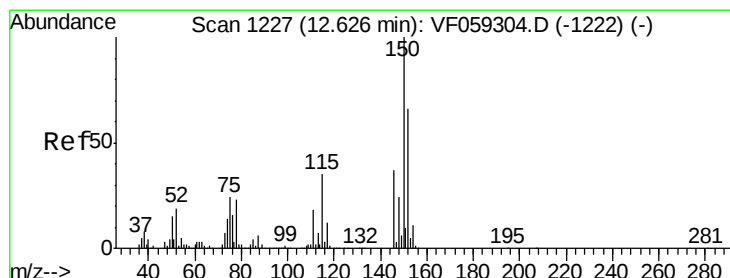
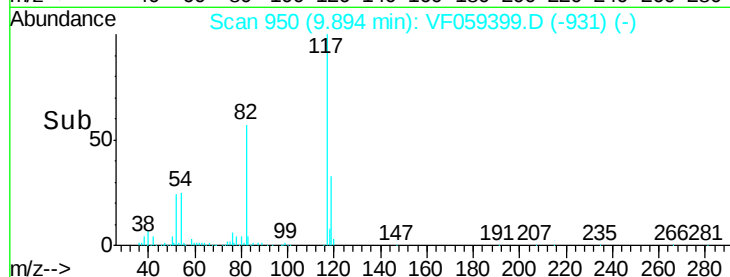
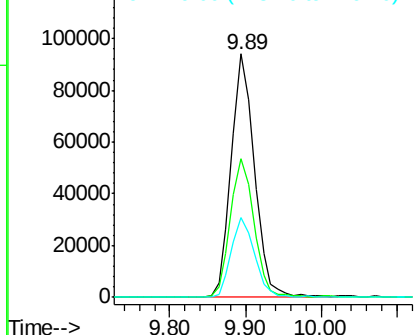
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.89 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

Instrument :
MSVOA_F
ClientSampleId :
CF-5(6.0)RE

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.2	44.6	66.8
119	32.9	24.1	36.1

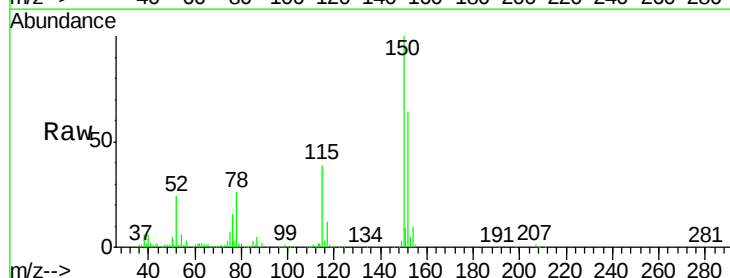


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

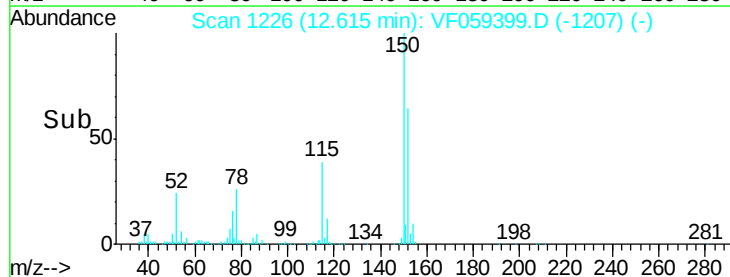
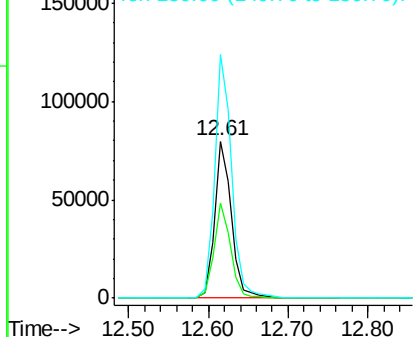


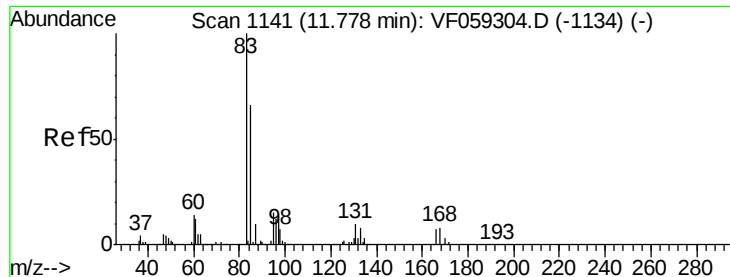
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059399.D
Acq: 2 Jul 2018 20:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	27.1	81.3
150	155.4	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





#75

1,1,2,2-Tetrachloroethane

Concen: 2.10 ug/l

RT: 11.71 min Scan# 1134

Delta R.T. -0.07 min

Lab File: VF059399.D

Acq: 2 Jul 2018 20:51

Instrument :

MSVOA_F

ClientSampleId :

CF-5(6.0)RE

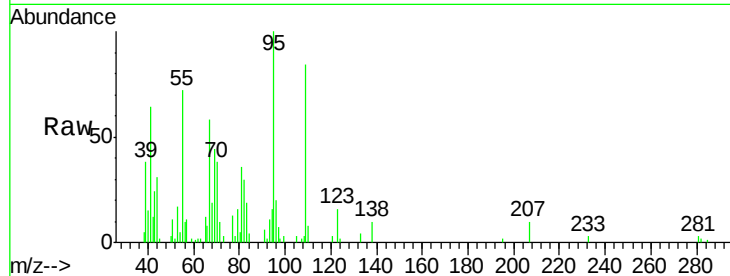
Tot Ion: 83 Resp: 3657

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.6#

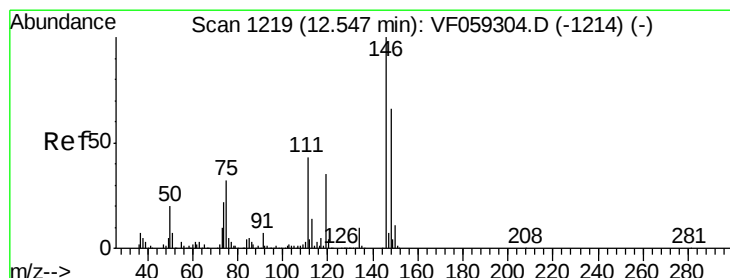
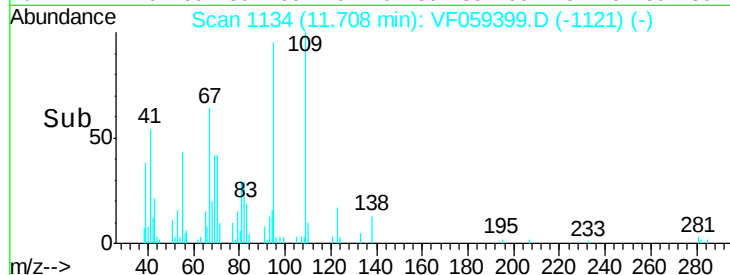
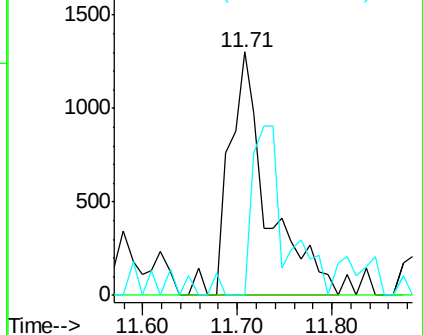
85 0.0 32.8 98.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059399.D

Acq: 2 Jul 2018 20:51

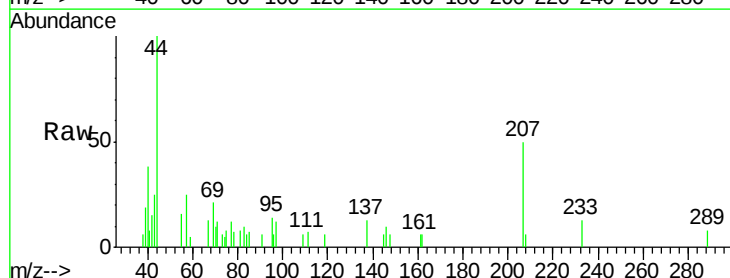
Tgt Ion: 146 Resp: 107

Ion Ratio Lower Upper

146 100

111 70.2 21.4 64.2#

148 64.1 32.8 98.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

