

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059352.D
 Acq On : 27 Jun 2018 21:17
 Operator : VA/AP
 Sample : J3677-12
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 28 01:45:27 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	5.04	168	100633	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.76	114	147155	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	141733	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	78566	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	60182	46.29	ug/l	0.01
Spiked Amount 50.000			Recovery =	92.58%		
35) Dibromofluoromethane	4.29	113	53379	49.64	ug/l	0.01
Spiked Amount 50.000			Recovery =	99.28%		
50) Toluene-d8	7.70	98	110100	41.36	ug/l	0.00
Spiked Amount 50.000			Recovery =	82.72%		
62) 4-Bromofluorobenzene	11.51	95	58685	39.08	ug/l	0.00
Spiked Amount 50.000			Recovery =	78.16%		

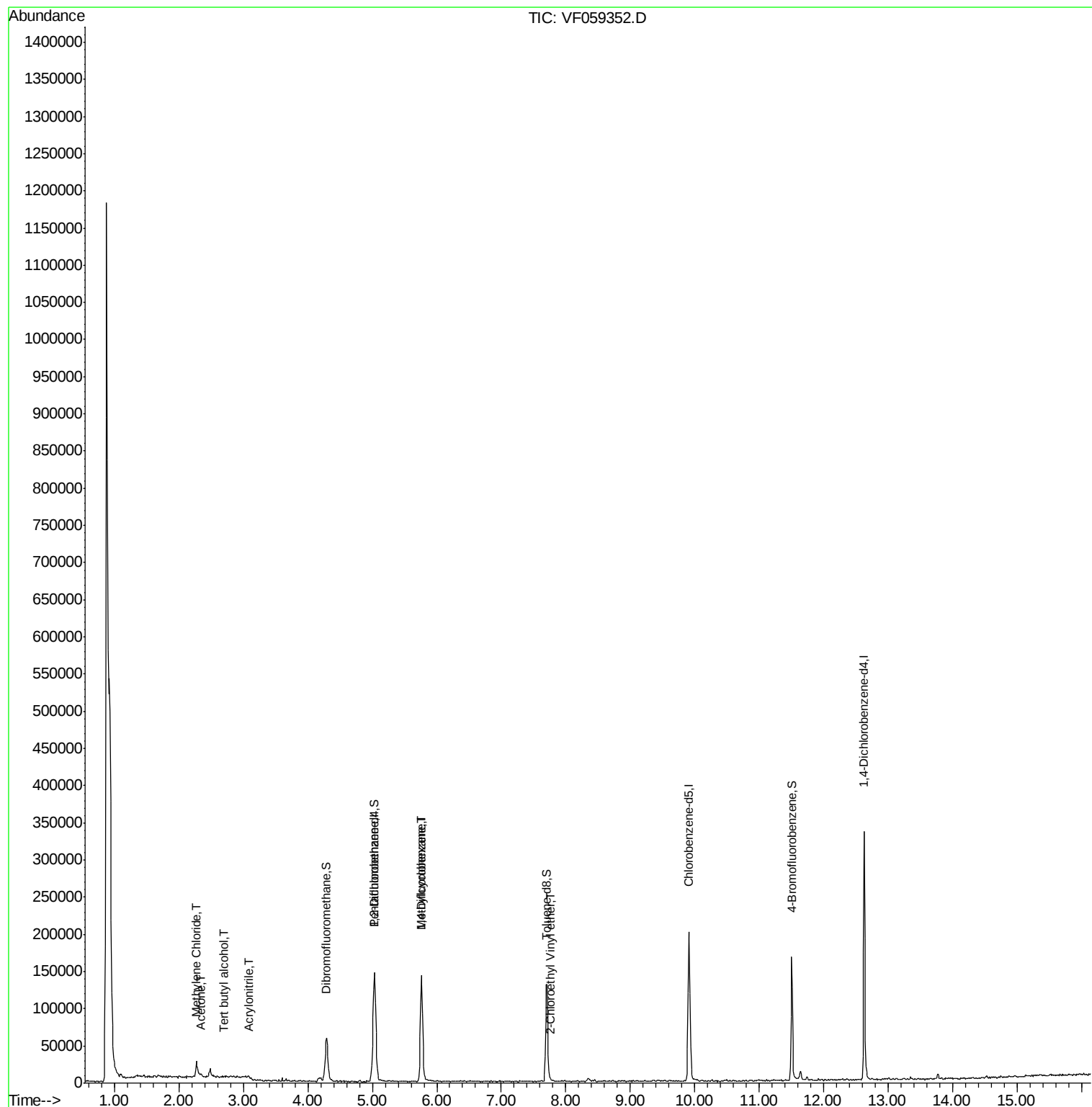
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.32	94	327	Below Cal	#	4
11) Tert butyl alcohol	2.69	59	316	3.651	ug/l #	66
13) Acrolein	2.09	56	75	Below Cal	#	2
15) Acrylonitrile	3.07	53	301	1.975	ug/l #	20
16) Acetone	2.35	43	4894	5.080	ug/l #	77
20) Methylene Chloride	2.27	84	8462	4.947	ug/l #	81
25) 2-Butanone	4.52	43	175	Below Cal	#	59
28) Bromochloromethane	3.90	49	74	Below Cal	#	6
29) Tetrahydrofuran	4.21	42	262	Below Cal	#	62
37) Ethyl Acetate	4.26	43	66	Below Cal	#	26
39) Methylcyclohexane	5.76	83	2228	1.956	ug/l #	31
49) 1,4-Dioxane	6.68	88	136	Below Cal	#	20
58) 2-Chloroethyl Vinyl ether	7.77	63	101	1.313	ug/l	100
59) 2-Hexanone	9.63	43	151	Below Cal	#	30
87) 1,3-Dichlorobenzene	12.55	146	311	Below Cal	#	23

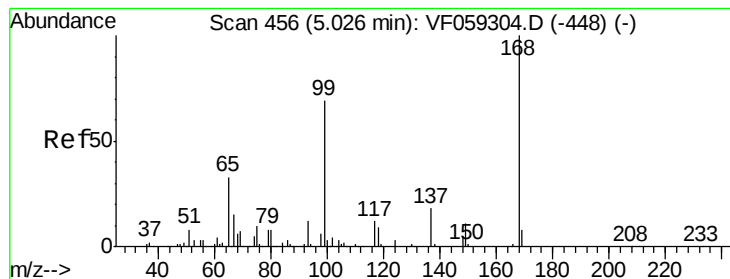
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF062718\
Data File : VF059352.D
Acq On : 27 Jun 2018 21:17
Operator : VA/AP
Sample : J3677-12
Misc : 5.00µ/5mL/MSVOA-F/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Jun 28 01:45:27 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

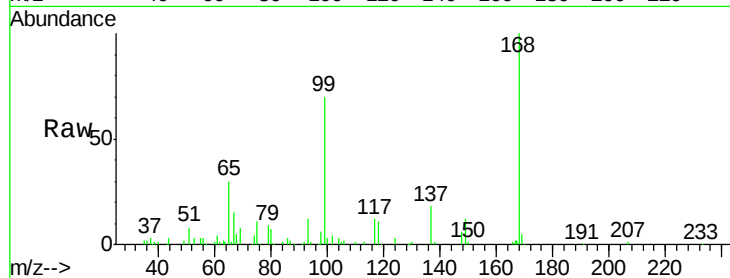
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 100633

Ion Ratio Lower Upper

168 100

99 70.0 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

40000

30000

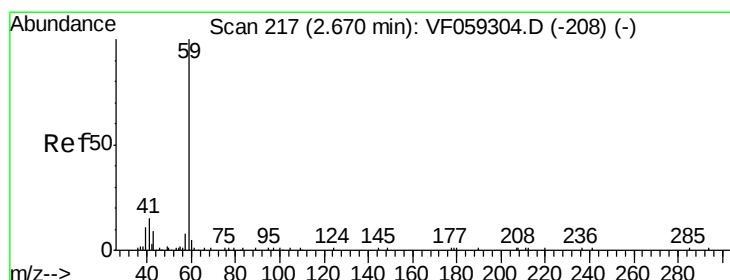
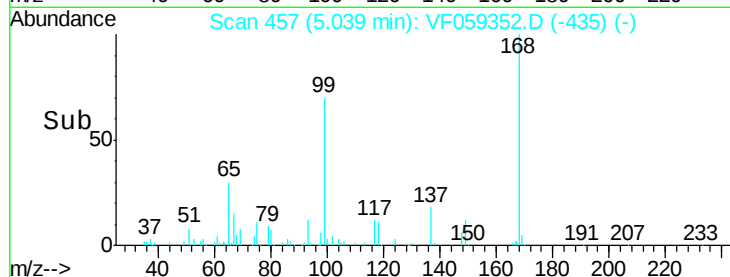
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 3.651 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.02 min

Lab File: VF059352.D

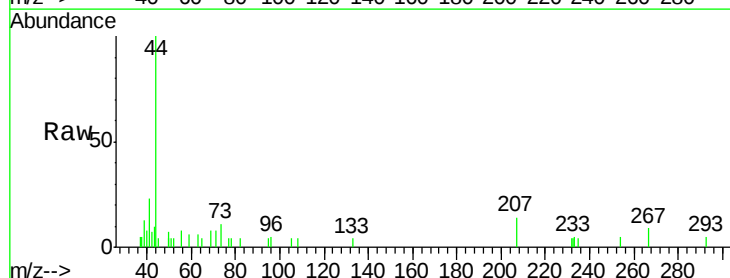
Acq: 27 Jun 2018 21:17

Tgt Ion: 59 Resp: 316

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

150

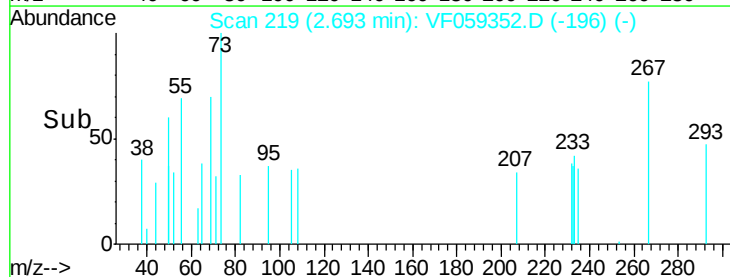
100

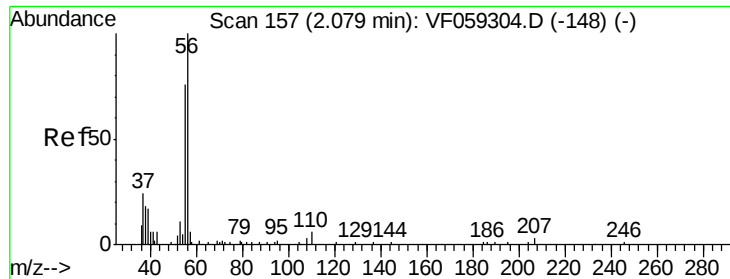
50

0

Time-->

2.65 2.70





#13

Acrolein

Concen: Below Cal

RT: 2.09 min Scan# 158

Delta R.T. 0.01 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

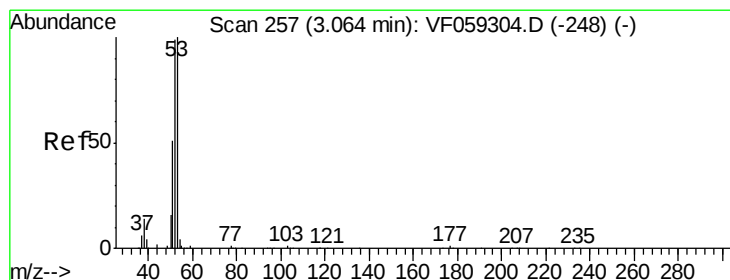
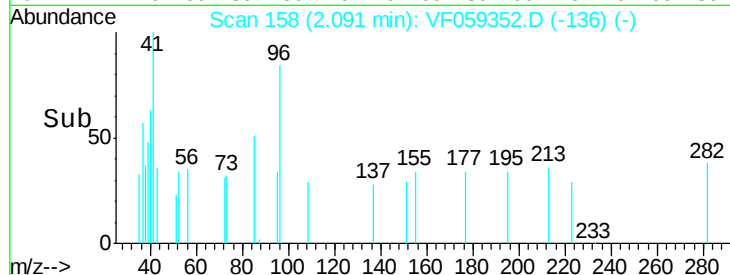
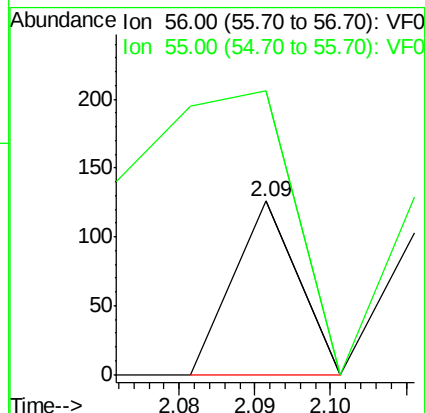
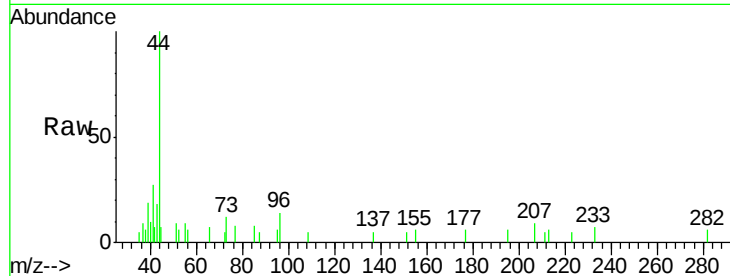
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 75

Ion Ratio Lower Upper

56 100

55 163.5 62.4 93.6#



#15

Acrylonitrile

Concen: 1.975 ug/l

RT: 3.07 min Scan# 257

Delta R.T. 0.00 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

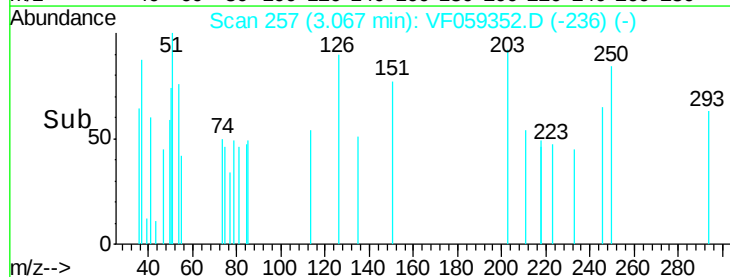
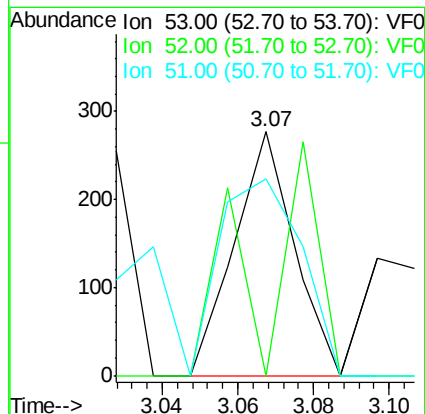
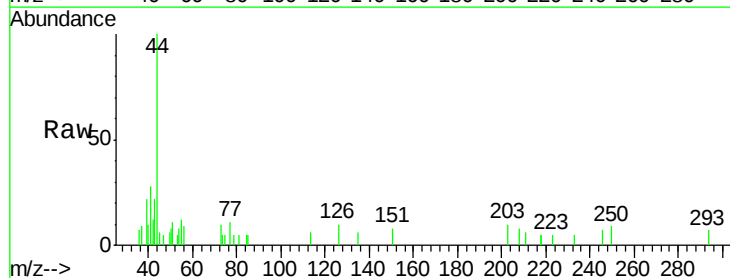
Tgt Ion: 53 Resp: 301

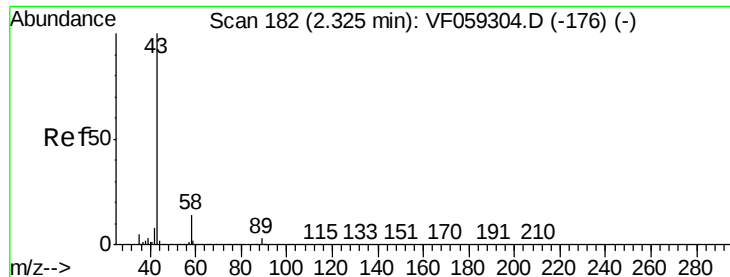
Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

51 80.9 40.9 61.3#

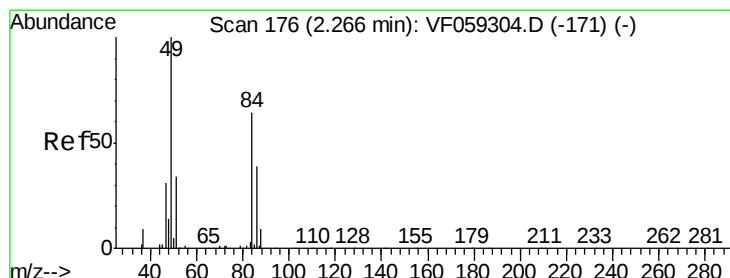
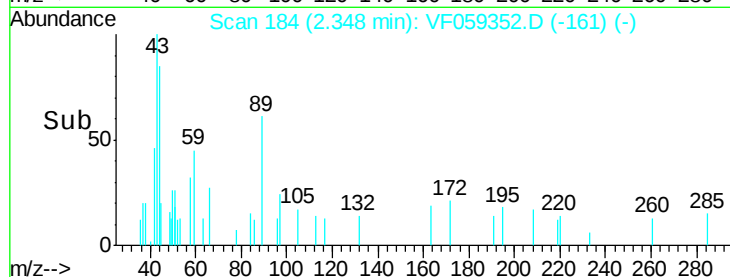
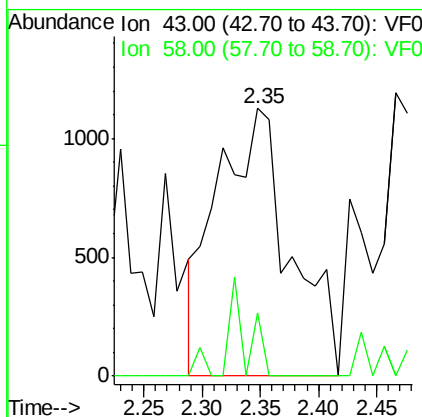
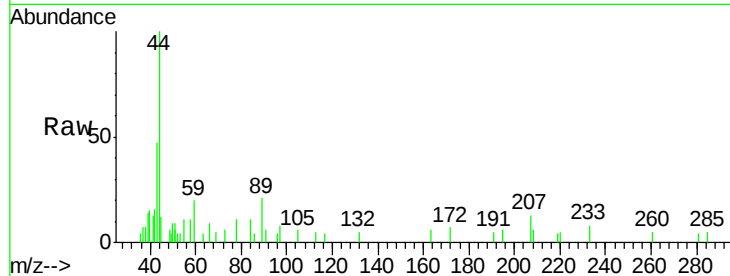




#16
Acetone
Concen: 5.080 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.02 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

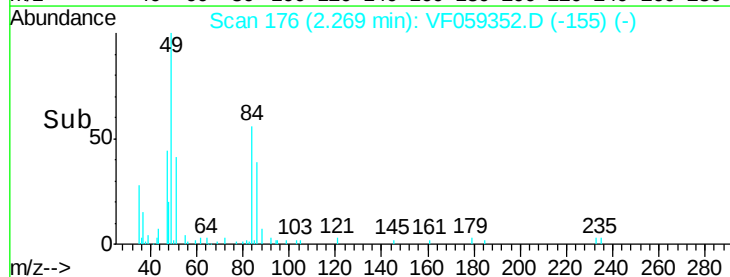
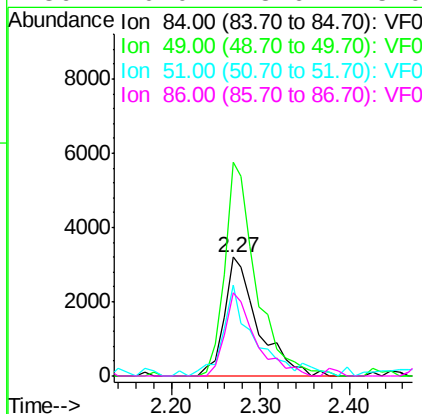
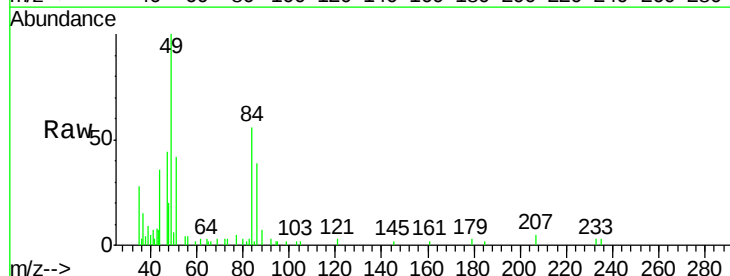
Instrument :
MSVOA_F
ClientSampleId :

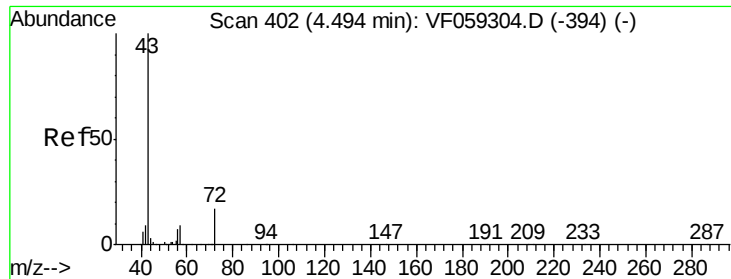
Tot Ion: 43 Resp: 4894
Ion Ratio Lower Upper
43 100
58 23.4 11.4 17.0#



#20
Methylene Chloride
Concen: 4.947 ug/l
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

Tgt Ion: 84 Resp: 8462
Ion Ratio Lower Upper
84 100
49 180.1 126.5 189.7
51 76.5 42.9 64.3#
86 70.0 48.6 73.0





#25

2-Butanone

Concen: Below Cal

RT: 4.52 min Scan# 404

Delta R.T. 0.02 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

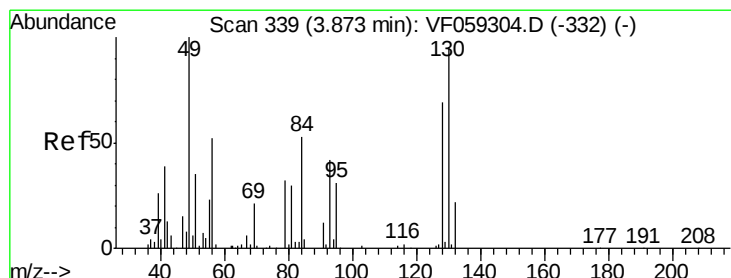
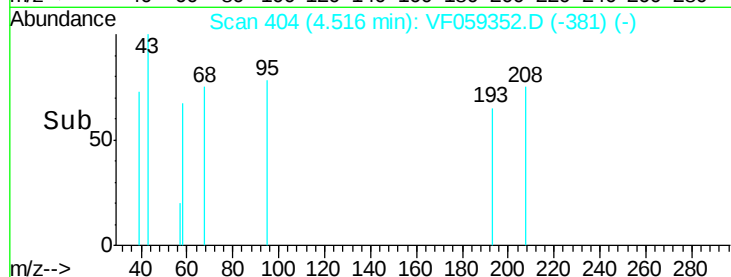
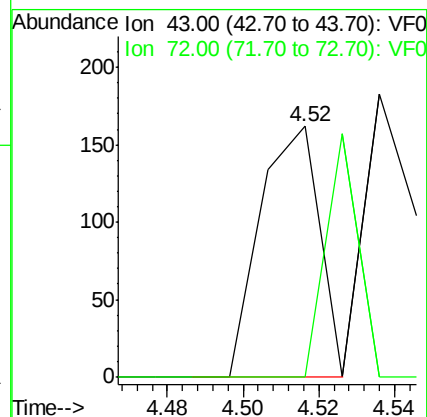
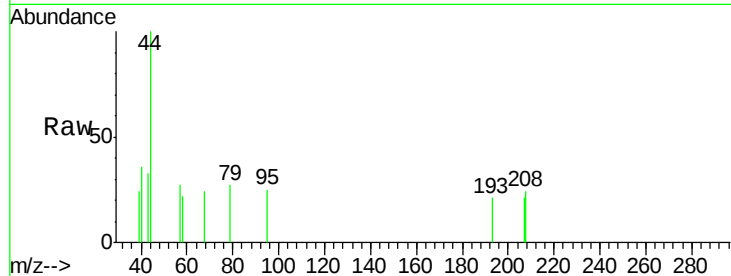
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 175

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 3.90 min Scan# 341

Delta R.T. 0.02 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

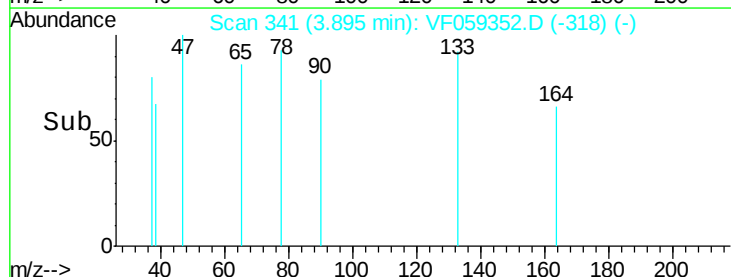
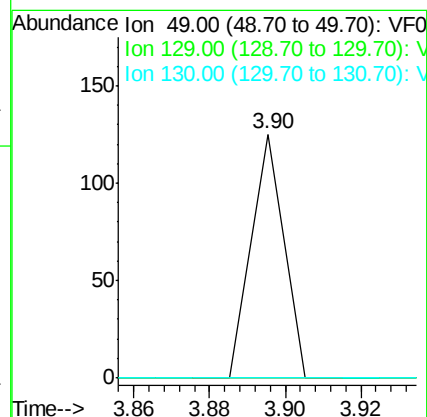
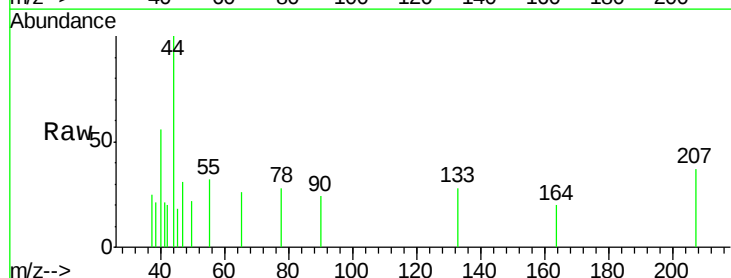
Tgt Ion: 49 Resp: 74

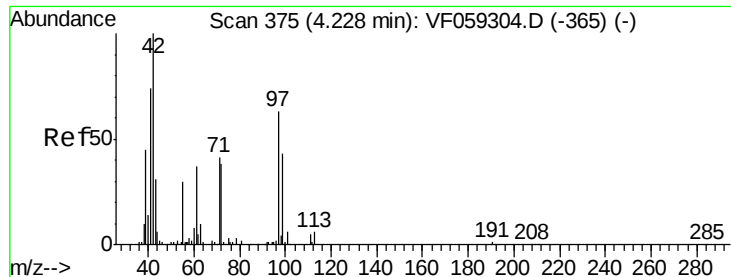
Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

130 0.0 75.1 112.7#

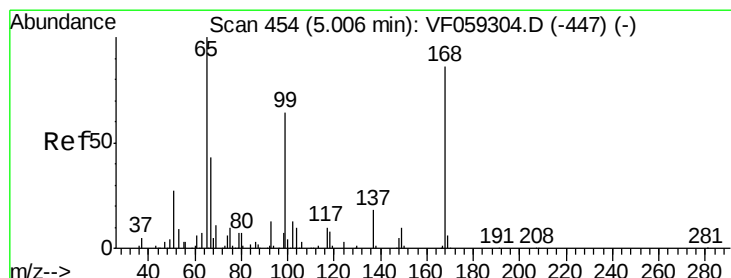
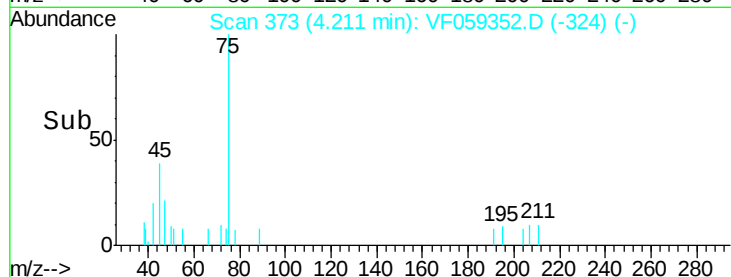
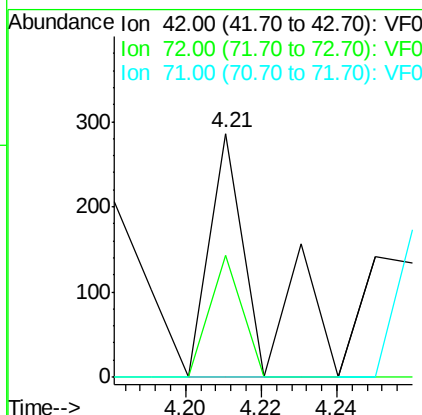
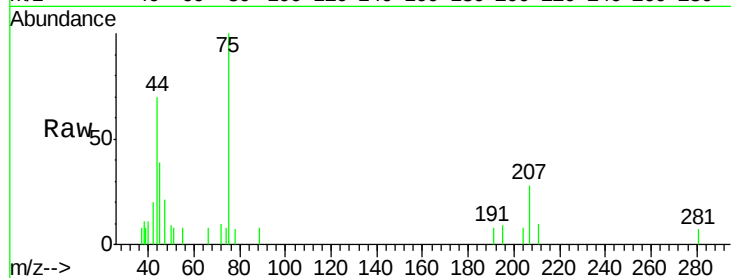




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.21 min Scan# 373
Delta R.T. -0.02 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

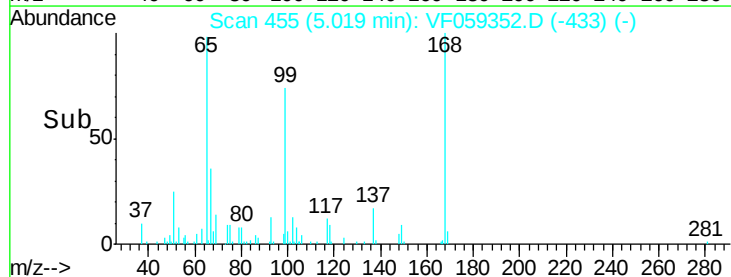
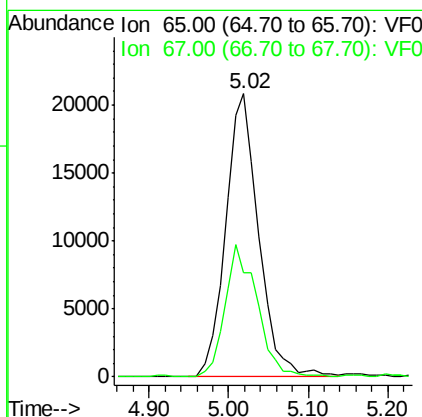
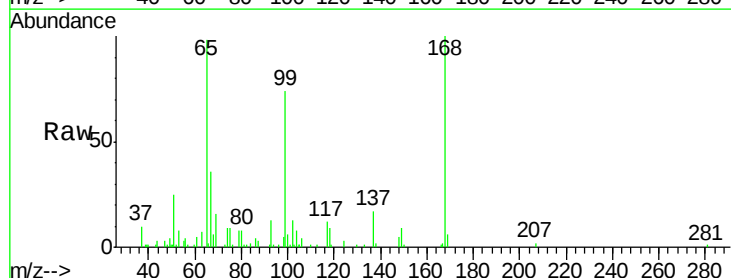
Instrument :
MSVOA_F
ClientSampleId :

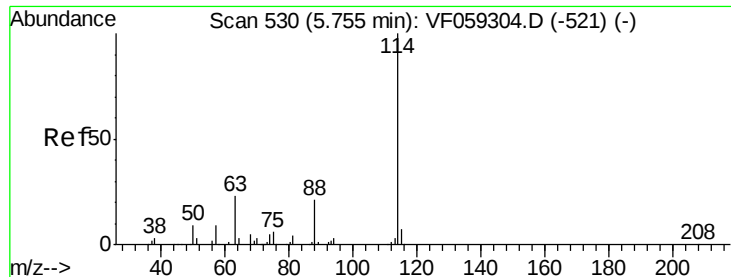
Tot Ion: 42 Resp: 262
Ion Ratio Lower Upper
42 100
72 32.4 30.5 45.7
71 0.0 32.5 48.7#



#33
1,2-Dichloroethane-d4
Concen: 46.288 ug/l
RT: 5.02 min Scan# 455
Delta R.T. 0.01 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

Tgt Ion: 65 Resp: 60182
Ion Ratio Lower Upper
65 100
67 37.0 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.00 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

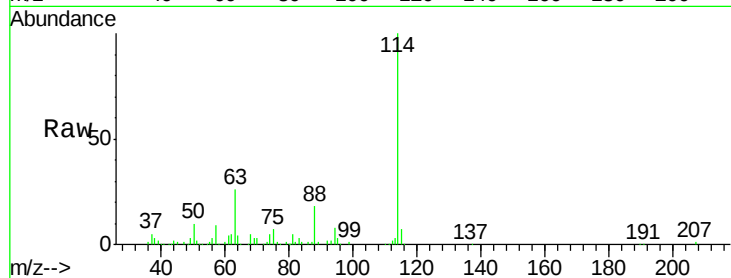
Tot Ion:114 Resp: 147155

Ion Ratio Lower Upper

114 100

63 25.9 0.0 45.8

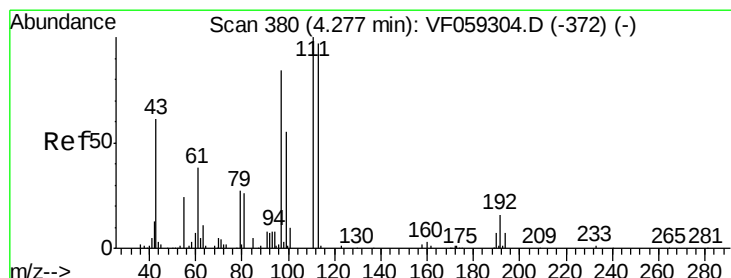
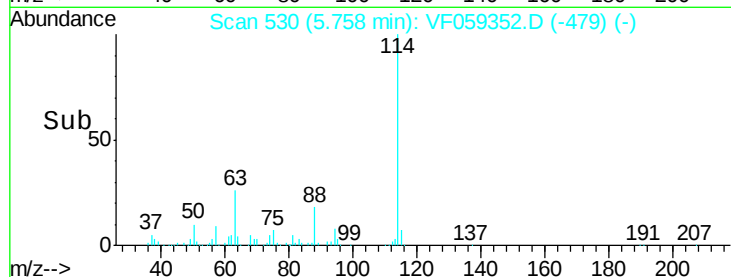
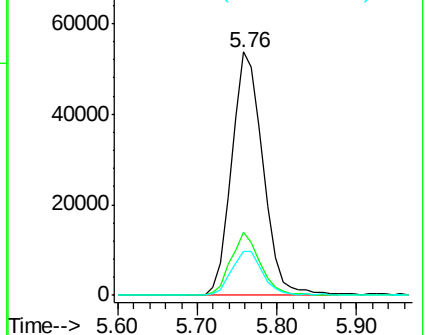
88 17.9 0.0 41.2



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: 49.645 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

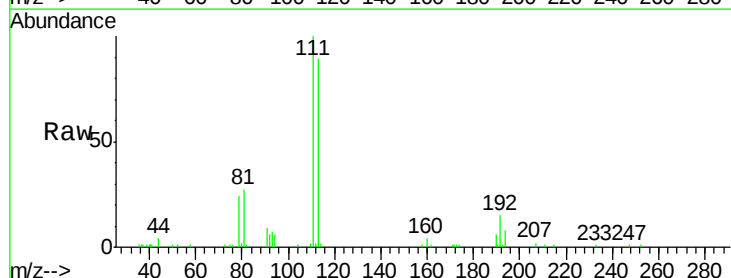
Tgt Ion:113 Resp: 53379

Ion Ratio Lower Upper

113 100

111 112.0 82.1 123.1

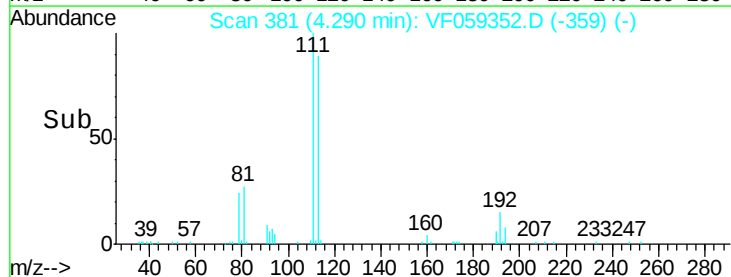
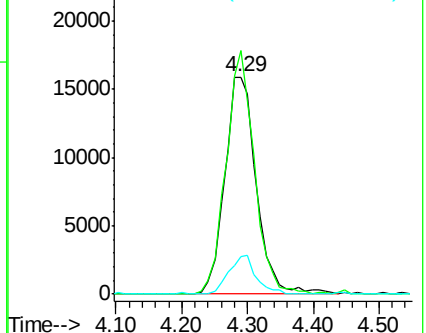
192 17.4 13.0 19.6

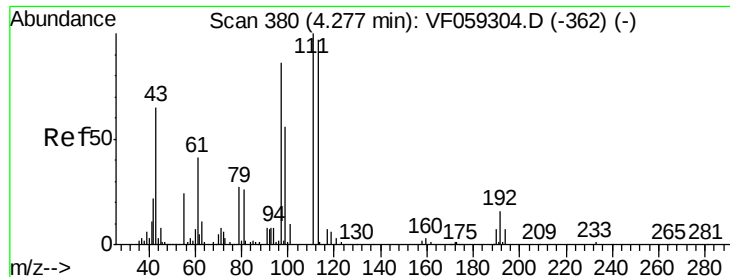


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

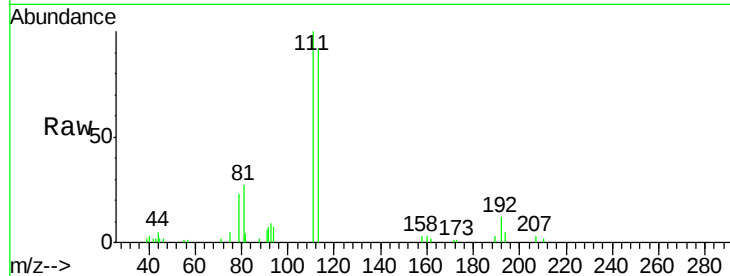




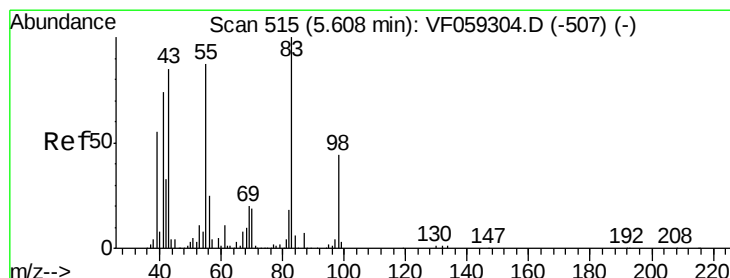
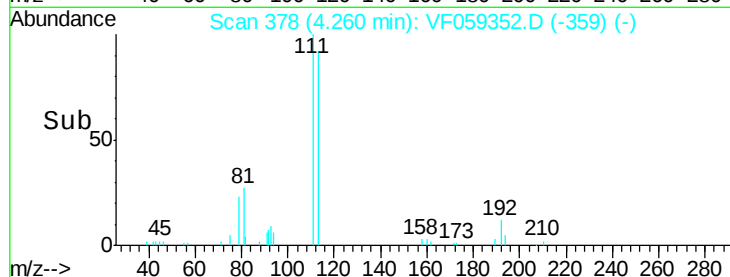
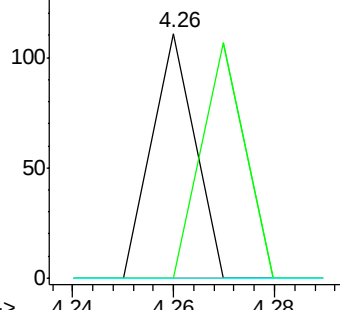
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.26 min Scan# 378
Delta R.T. -0.02 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	43	61	70	Resp	Lower	Upper
43	100					
61	0.0	50.1			75.1#	
70	0.0	6.2			9.4#	

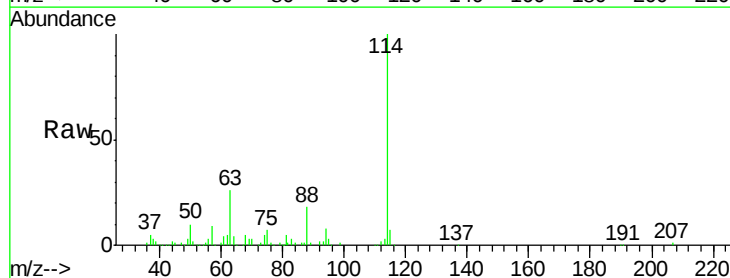


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

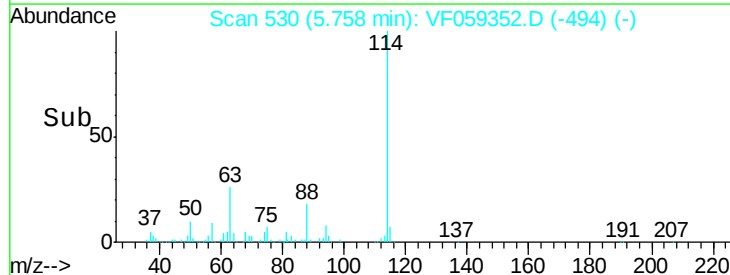
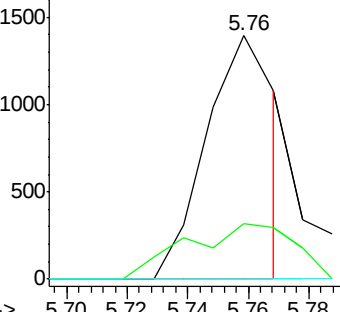


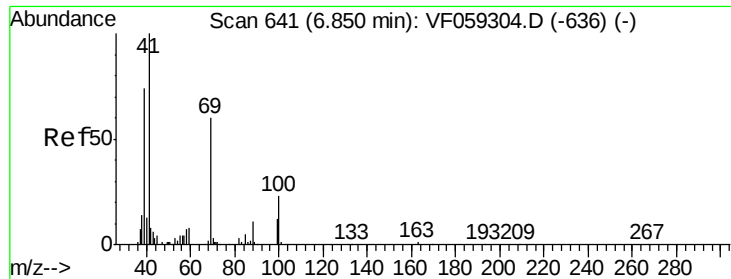
#39
Methylcyclohexane
Concen: 1.956 ug/l
RT: 5.76 min Scan# 530
Delta R.T. 0.15 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

Tgt Ion	83	55	98	Resp	Lower	Upper
83	100					
55	22.9	69.2			103.8#	
98	0.0	35.0			52.6#	



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

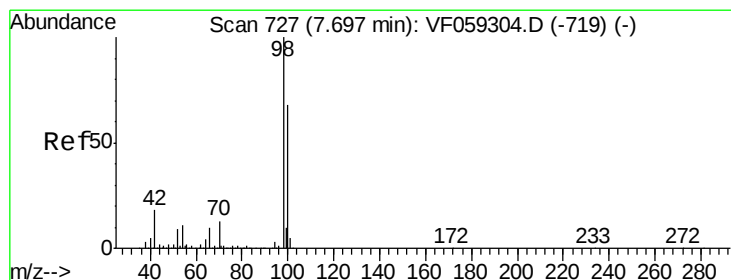
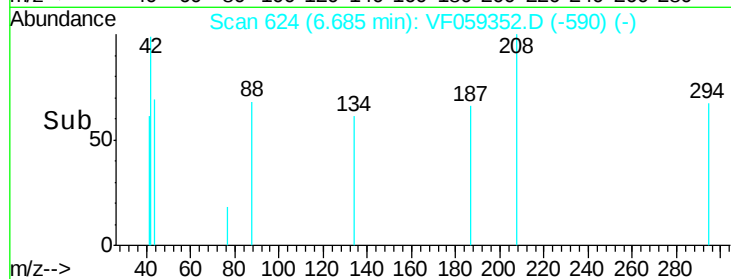
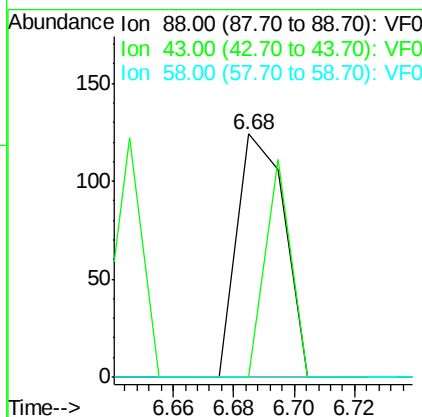
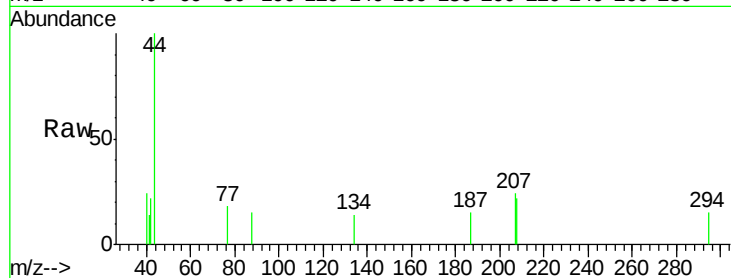




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.68 min Scan# 624
Delta R.T. -0.16 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

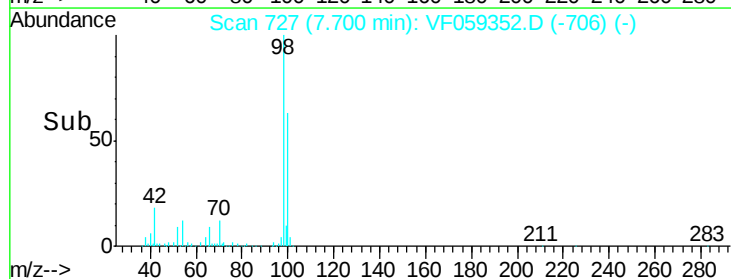
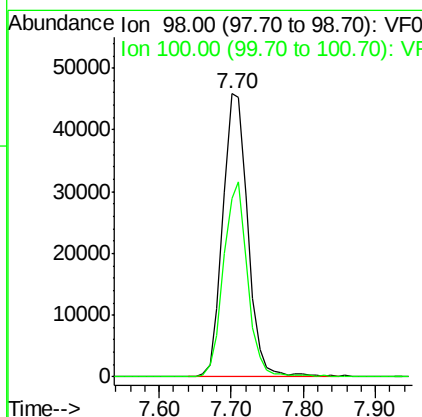
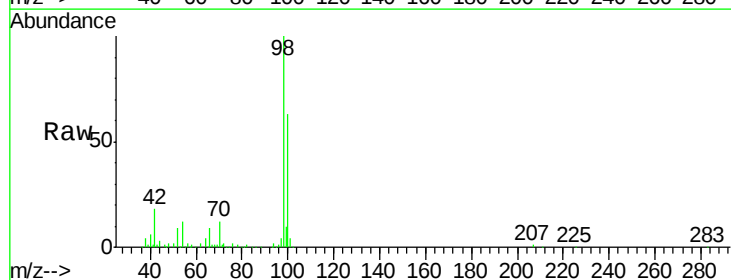
Instrument :
MSVOA_F
ClientSampleId :

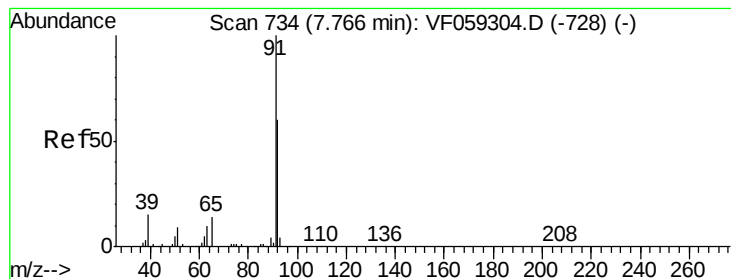
Tot Ion: 88 Resp: 136
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 0.0 46.6 69.8#



#50
Toluene-d8
Concen: 41.358 ug/l
RT: 7.70 min Scan# 727
Delta R.T. 0.00 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

Tgt Ion: 98 Resp: 110100
Ion Ratio Lower Upper
98 100
100 63.0 54.6 82.0





#58

2-Chloroethyl Vinyl ether

Concen: 1.313 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.00 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

Instrument :

MSVOA_F

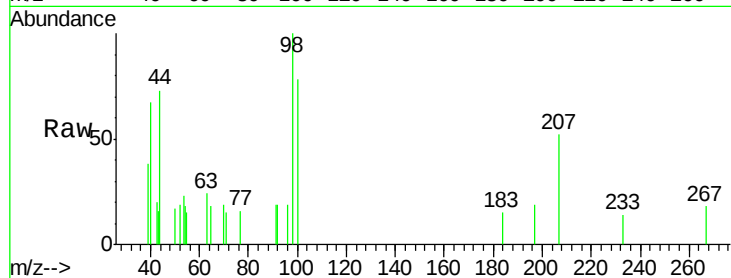
ClientSampleId :

Tot Ion: 63 Resp: 101

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.77

150

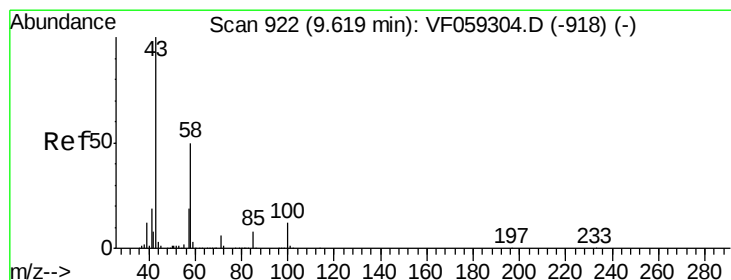
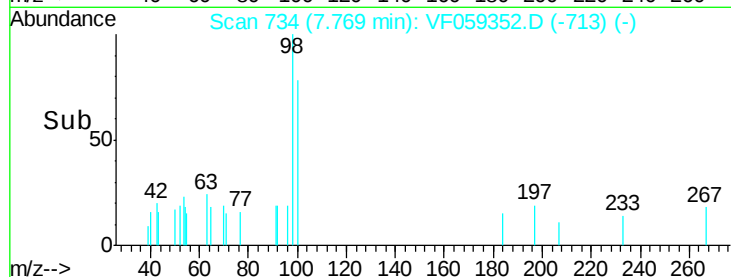
100

50

0

7.74 7.76 7.78 7.80

Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.63 min Scan# 923

Delta R.T. 0.01 min

Lab File: VF059352.D

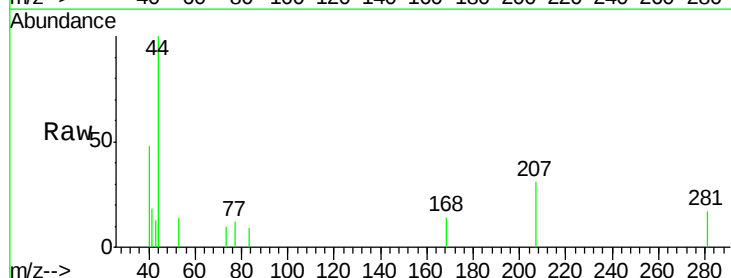
Acq: 27 Jun 2018 21:17

Tgt Ion: 43 Resp: 151

Ion Ratio Lower Upper

43 100

58 0.0 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.63

150

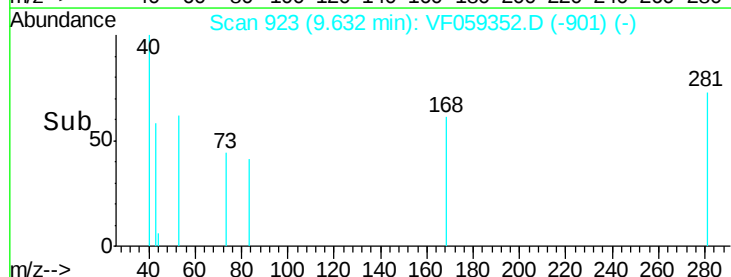
100

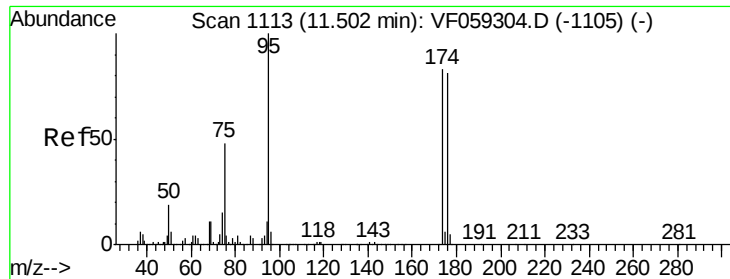
50

0

9.62 9.64 9.66

Time-->

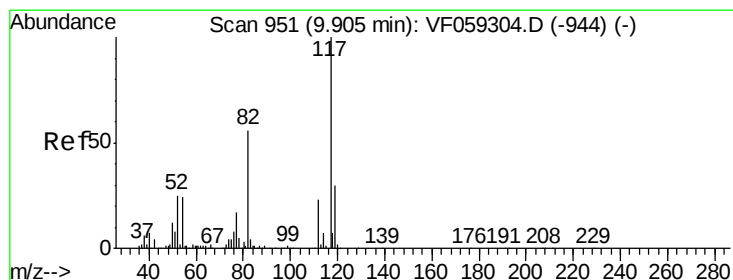
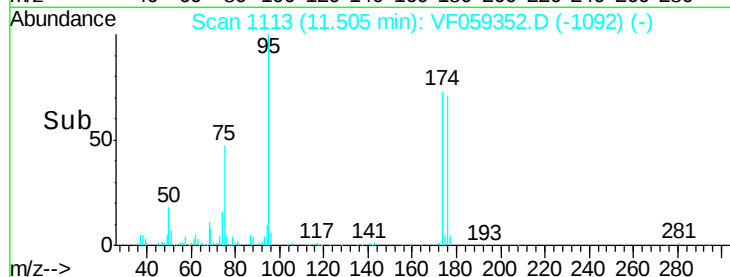
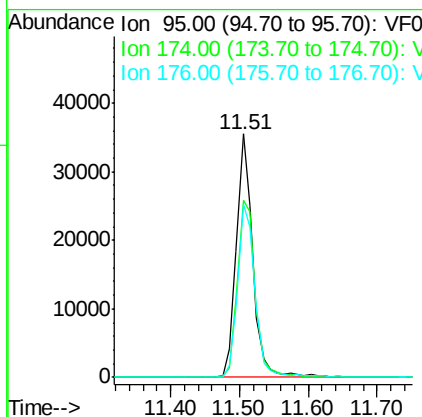
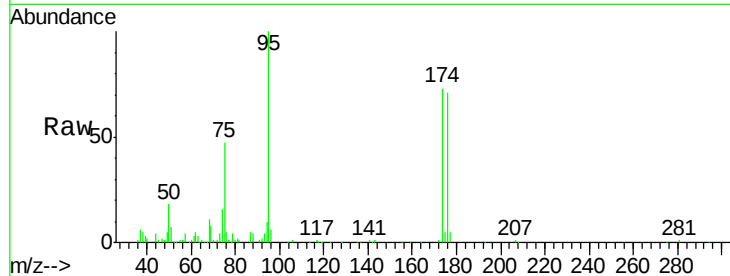




#62
4-Bromofluorobenzene
Concen: 39.080 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

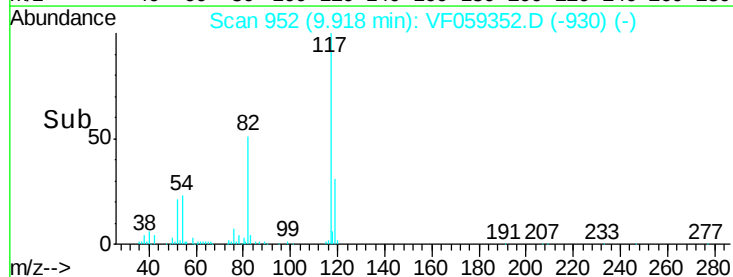
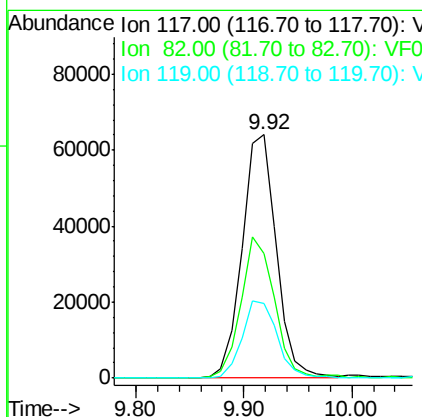
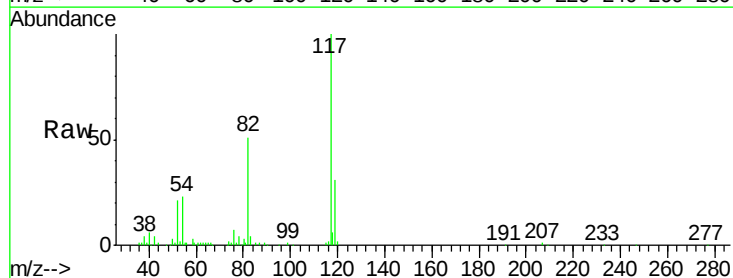
Instrument :
MSVOA_F
ClientSampleId :

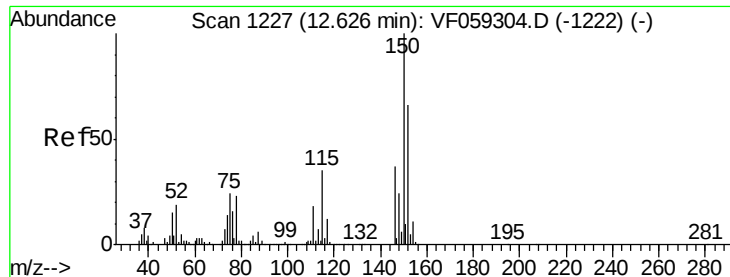
Tot Ion: 95 Resp: 58685
Ion Ratio Lower Upper
95 100
174 72.6 0.0 165.2
176 71.0 0.0 161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF059352.D
Acq: 27 Jun 2018 21:17

Tgt Ion: 117 Resp: 141733
Ion Ratio Lower Upper
117 100
82 51.4 44.6 66.8
119 30.6 24.1 36.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

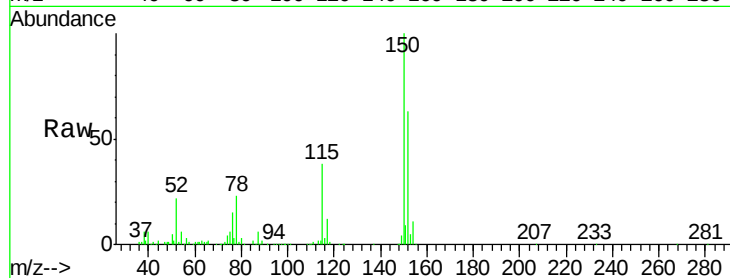
Tot Ion:152 Resp: 78566

Ion Ratio Lower Upper

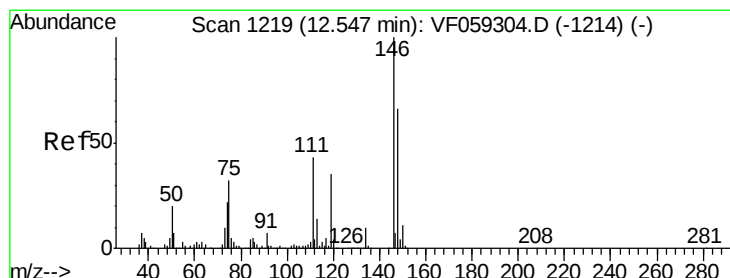
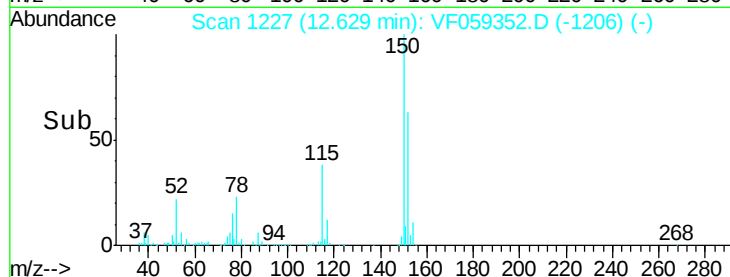
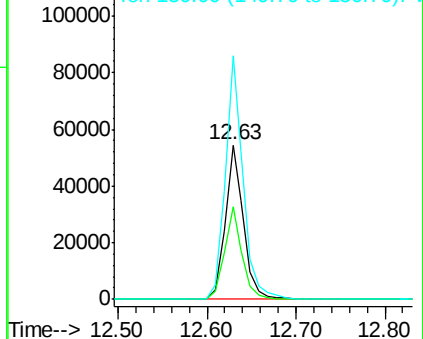
152 100

115 59.5 27.1 81.3

150 157.5 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



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.55 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VF059352.D

Acq: 27 Jun 2018 21:17

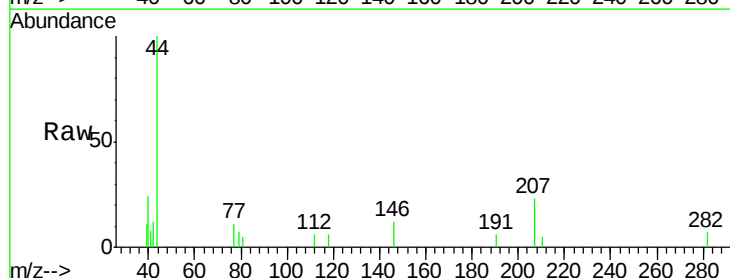
Tgt Ion:146 Resp: 311

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

148 0.0 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

