

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059384.D
 Acq On : 2 Jul 2018 13:44
 Operator : VA/AP
 Sample : VF0702SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0702SBL01

Quant Time: Jul 03 01:07:15 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	296610	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.73	114	436333	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.89	117	434565	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	284904	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	169291	44.18	ug/l	-0.01
Spiked Amount 50.000			Recovery =	88.36%		
35) Dibromofluoromethane	4.27	113	151805	47.62	ug/l	-0.01
Spiked Amount 50.000			Recovery =	95.24%		
50) Toluene-d8	7.69	98	339899	43.06	ug/l	-0.01
Spiked Amount 50.000			Recovery =	86.12%		
62) 4-Bromofluorobenzene	11.49	95	208229	46.76	ug/l	-0.01
Spiked Amount 50.000			Recovery =	93.52%		

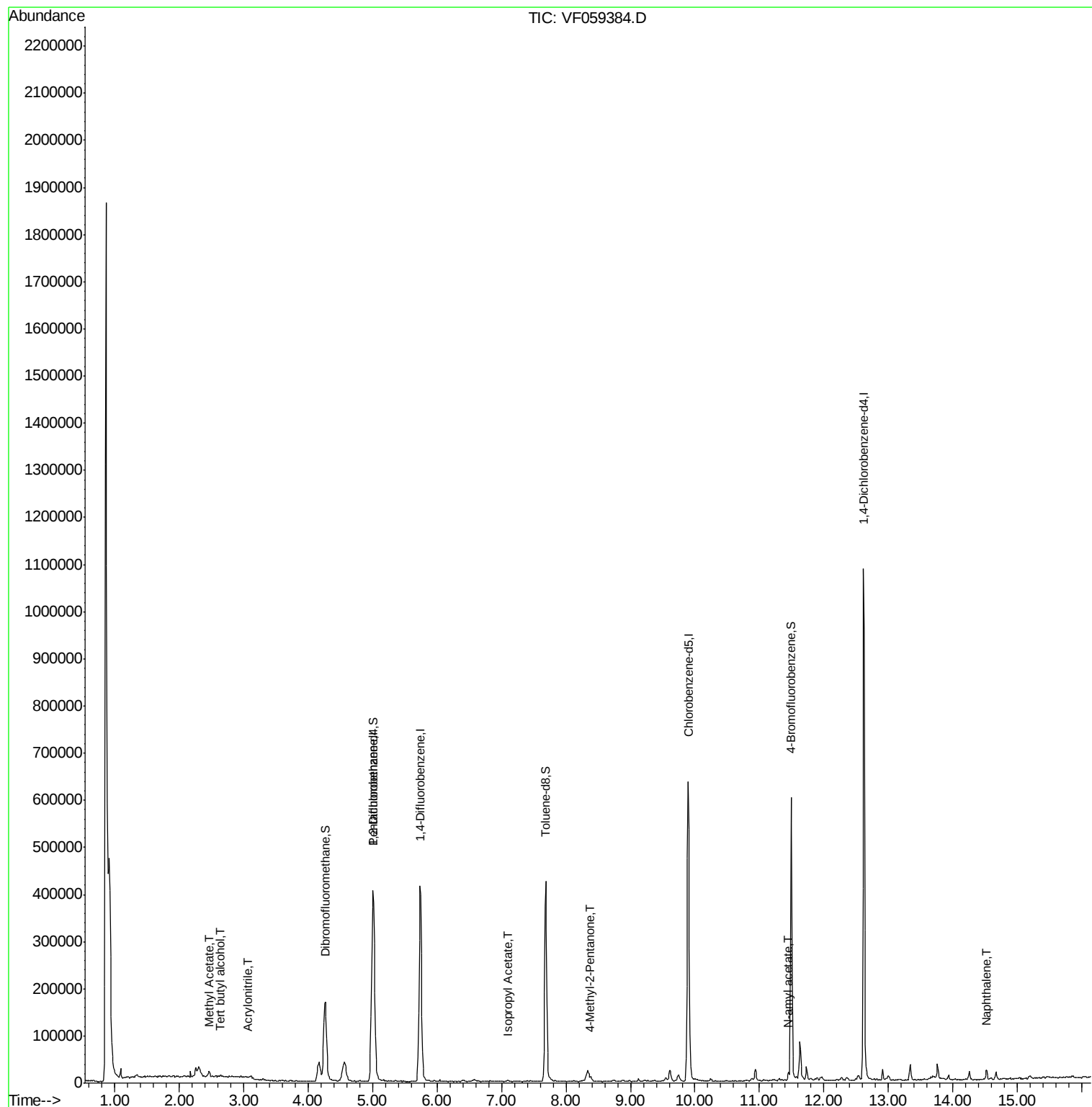
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.34	94	347	Below Cal	#	52
11) Tert butyl alcohol	2.64	59	499	1.96	ug/l #	71
13) Acrolein	2.03	56	353	Below Cal		82
15) Acrylonitrile	3.06	53	1534	3.41	ug/l #	47
16) Acetone	2.32	43	4874	Below Cal	#	88
18) Methyl Acetate	2.47	43	4320	1.37	ug/l #	78
20) Methylene Chloride	2.25	84	4168	Below Cal		96
25) 2-Butanone	4.49	43	1660	Below Cal	#	81
28) Bromochloromethane	3.87	49	141	Below Cal	#	6
29) Tetrahydrofuran	4.23	42	1574	Below Cal	#	57
37) Ethyl Acetate	4.27	43	2515	Below Cal	#	35
43) Isopropyl Acetate	7.10	43	3424	1.08	ug/l #	84
49) 1,4-Dioxane	6.87	88	145	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.38	43	7158	3.04	ug/l #	69
59) 2-Hexanone	9.61	43	18932	Below Cal		94
74) N-amyl acetate	11.45	43	9520	1.58	ug/l	96
87) 1,3-Dichlorobenzene	12.55	146	2766	Below Cal		66
95) Naphthalene	14.52	128	13163	1.02	ug/l #	96

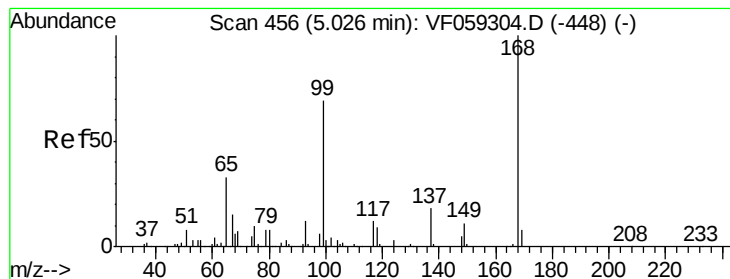
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 03 01:07:15 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: 50.00 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Instrument :

MSVOA_F

ClientSampleId :

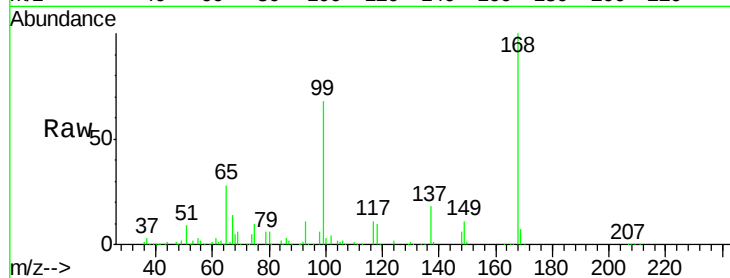
VF0702SBL01

Tot Ion:168 Resp: 296610

Ion Ratio Lower Upper

168 100

99 67.8 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

100000

80000

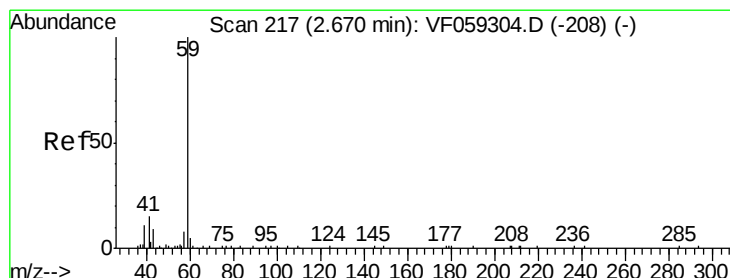
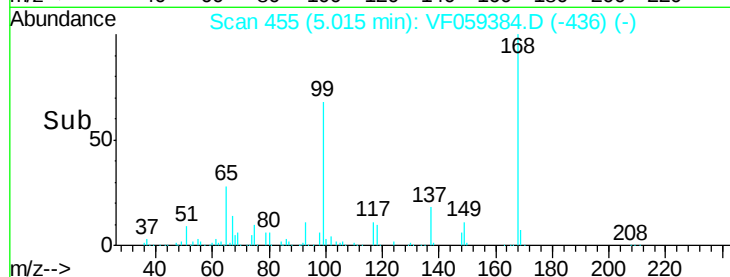
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.96 ug/l

RT: 2.64 min Scan# 214

Delta R.T. -0.03 min

Lab File: VF059384.D

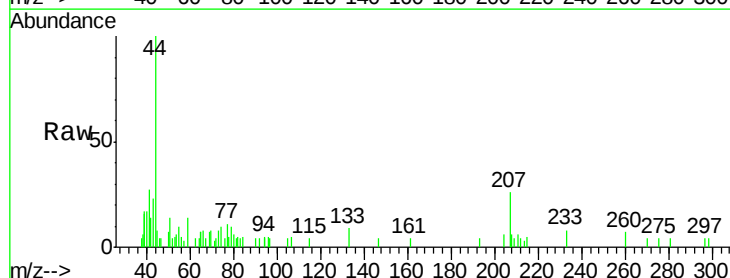
Acq: 2 Jul 2018 13:44

Tgt Ion: 59 Resp: 499

Ion Ratio Lower Upper

59 100

57 25.6 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.64

400

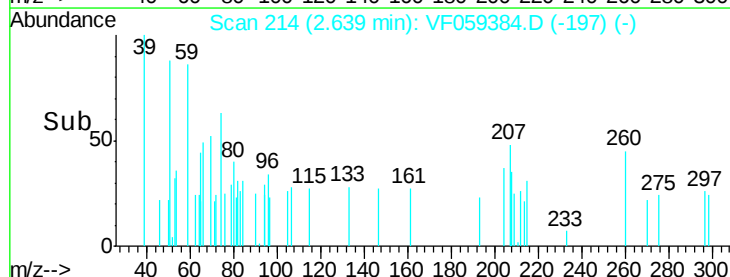
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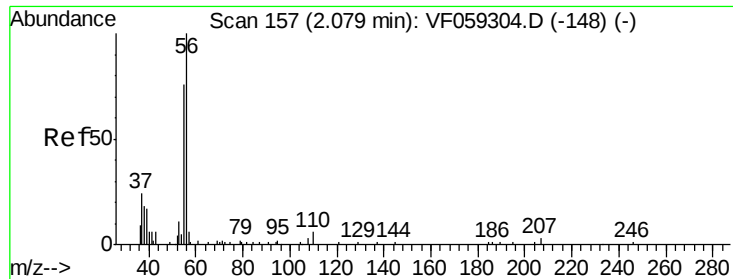
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.03 min Scan# 152

Delta R.T. -0.05 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Instrument :

MSVOA_F

ClientSampleId :

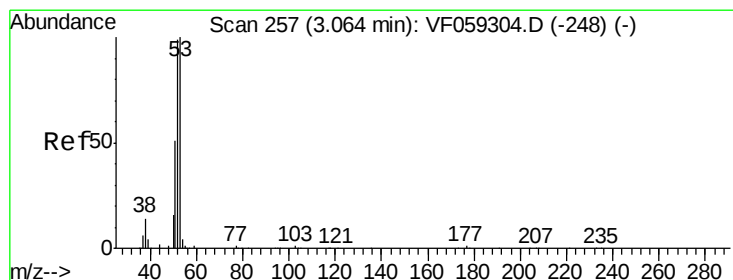
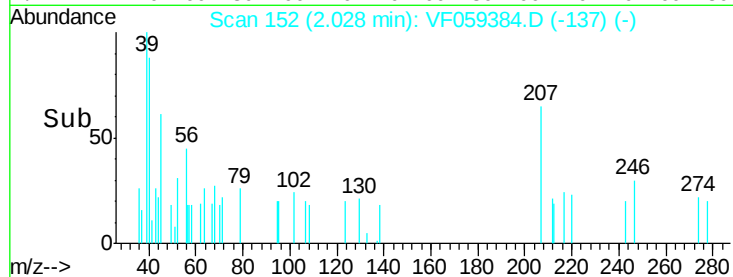
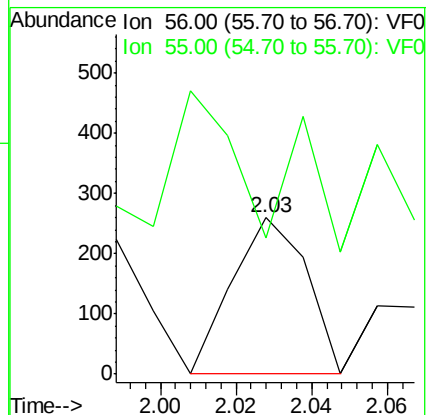
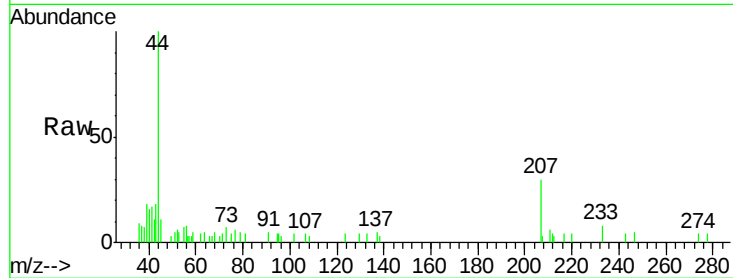
VF0702SBL01

Tot Ion: 56 Resp: 353

Ion Ratio Lower Upper

56 100

55 62.4 62.4 93.6



#15

Acrylonitrile

Concen: 3.41 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.00 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

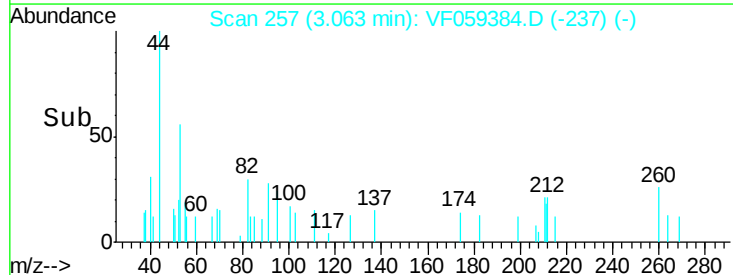
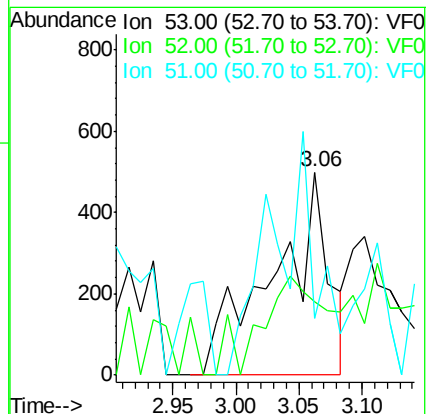
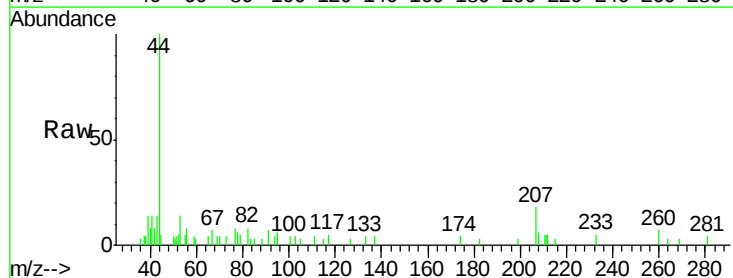
Tgt Ion: 53 Resp: 1534

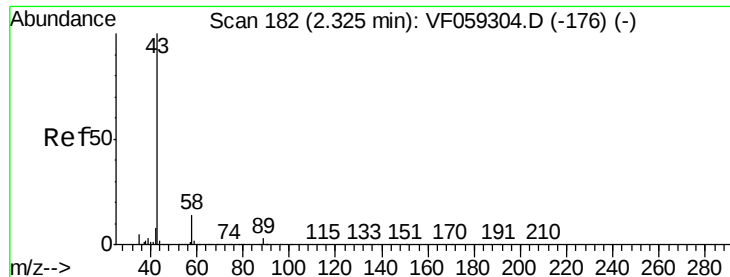
Ion Ratio Lower Upper

53 100

52 36.3 79.2 118.8#

51 28.3 40.9 61.3#

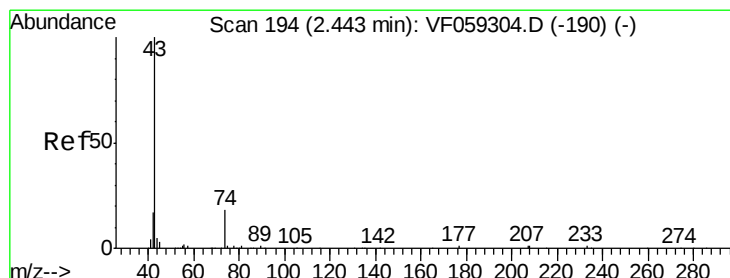
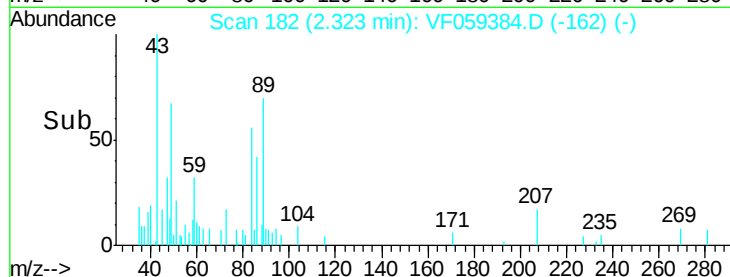
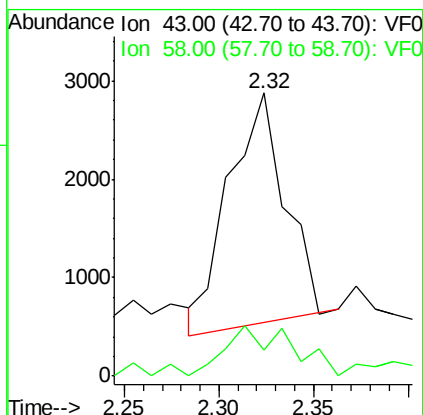
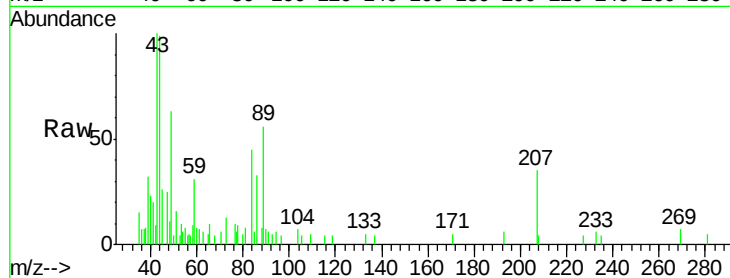




#16
Acetone
Concen: Below Cal
RT: 2.32 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF059384.D
Acq: 2 Jul 2018 13:44

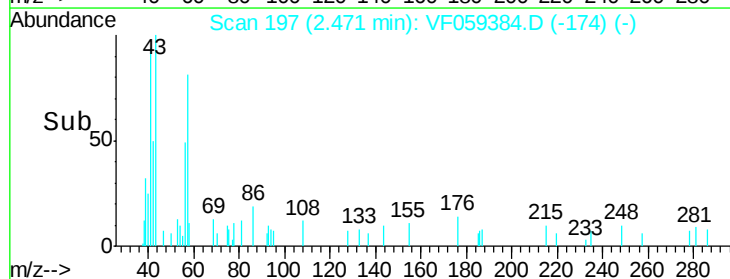
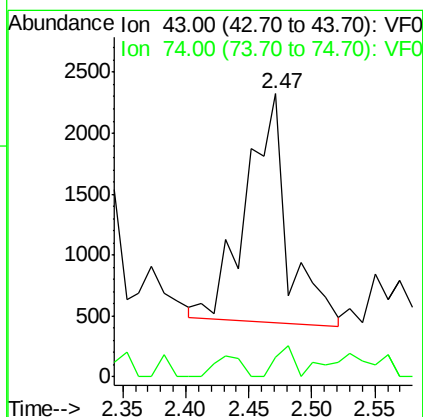
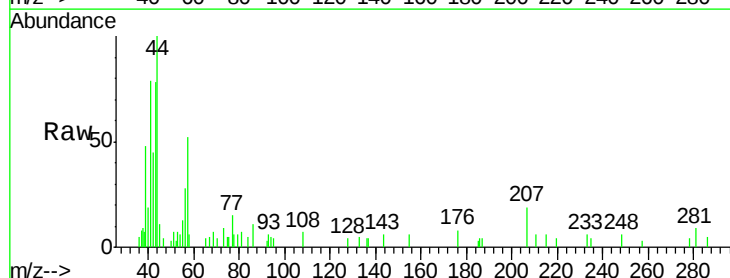
Instrument :
MSVOA_F
ClientSampleId :
VF0702SBL01

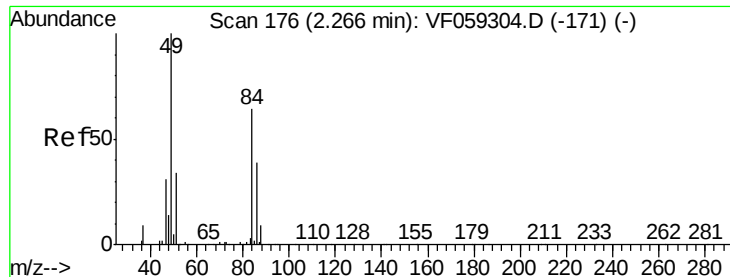
Tot Ion: 43 Resp: 4874
Ion Ratio Lower Upper
43 100
58 9.3 11.4 17.0#



#18
Methyl Acetate
Concen: 1.37 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.03 min
Lab File: VF059384.D
Acq: 2 Jul 2018 13:44

Tgt Ion: 43 Resp: 4320
Ion Ratio Lower Upper
43 100
74 7.1 13.3 19.9#

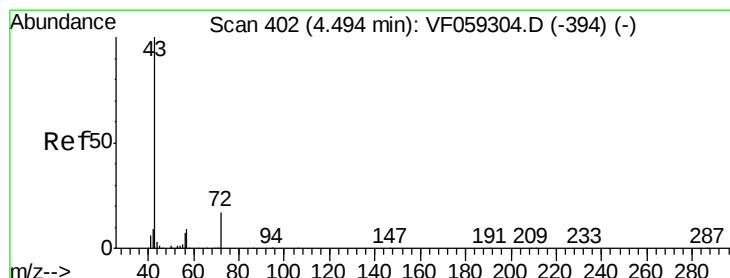
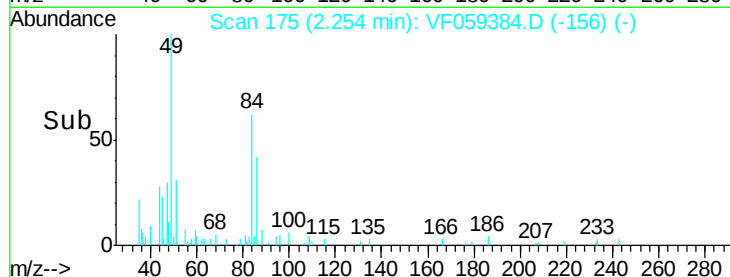
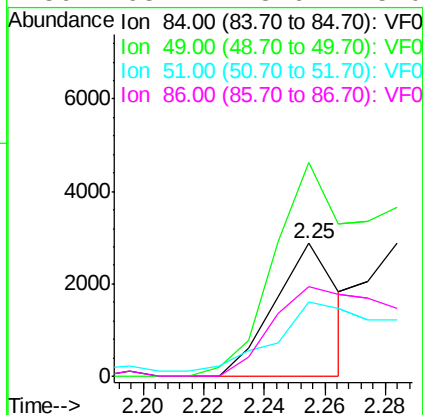
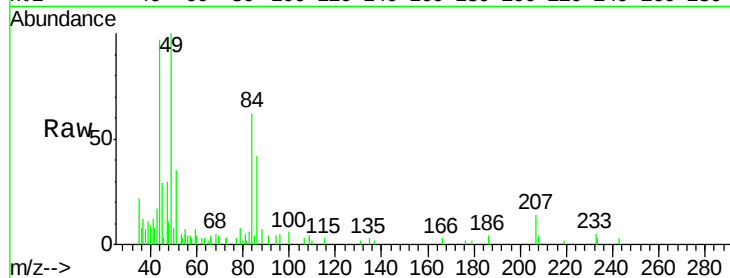




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 175
Delta R.T. -0.01 min
Lab File: VF059384.D
Acq: 2 Jul 2018 13:44

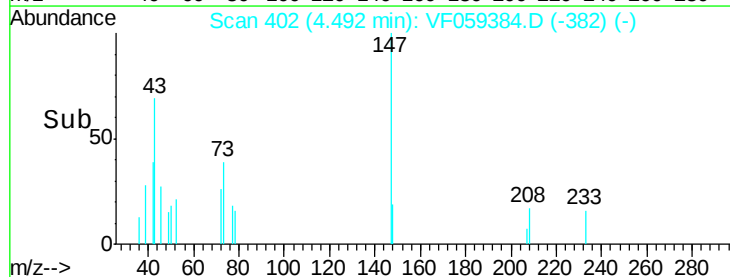
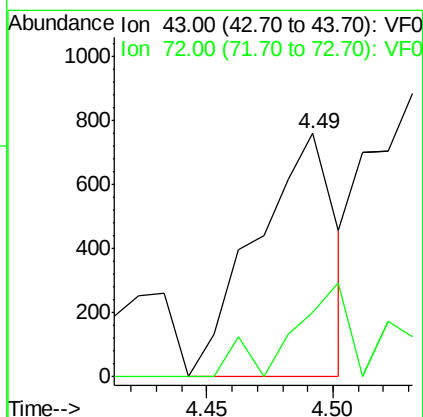
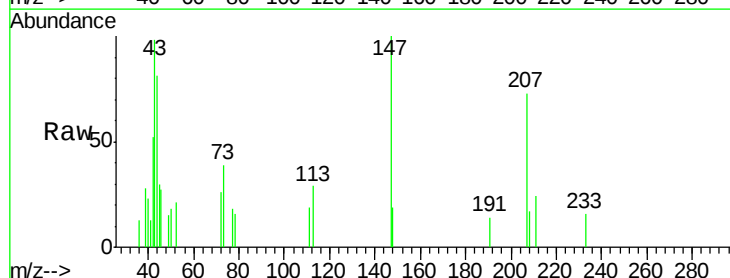
Instrument :
MSVOA_F
ClientSampleId :
VF0702SBL01

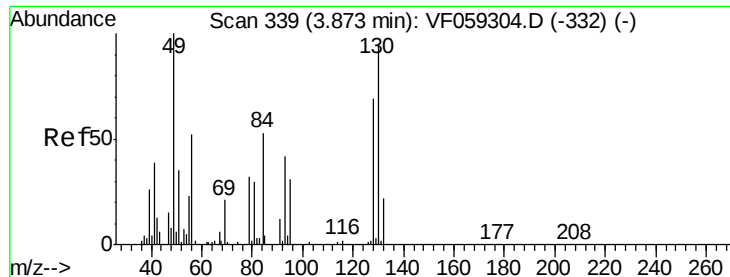
Tot Ion:	84	Resp:	4168
Ion	Ratio	Lower	Upper
84	100		
49	151.7	126.5	189.7
51	52.7	42.9	64.3
86	63.7	48.6	73.0



#25
2-Butanone
Concen: Below Cal
RT: 4.49 min Scan# 402
Delta R.T. -0.00 min
Lab File: VF059384.D
Acq: 2 Jul 2018 13:44

Tgt Ion:	43	Resp:	1660
Ion	Ratio	Lower	Upper
43	100		
72	26.6	14.4	21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.87 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Instrument :

MSVOA_F

ClientSampleId :

VF0702SBL01

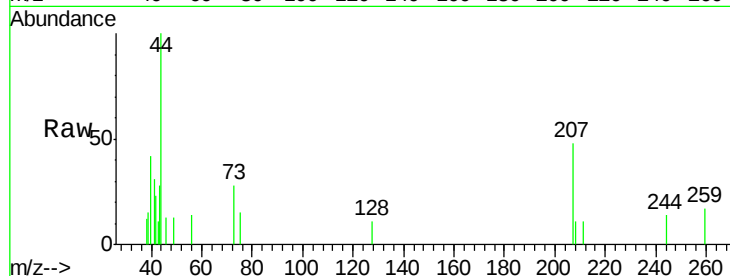
Tot Ion: 49 Resp: 141

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

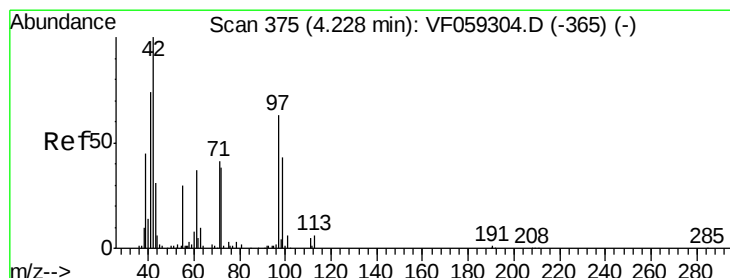
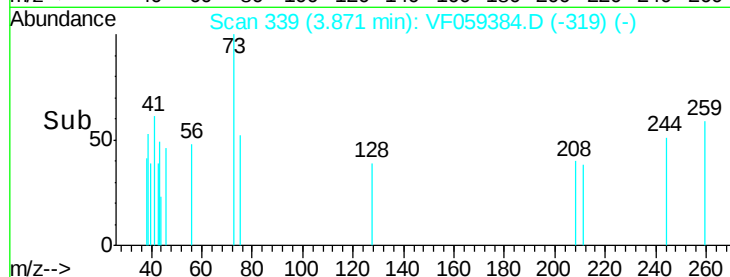
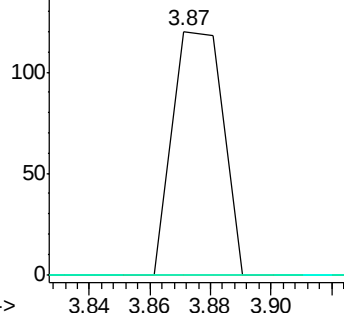
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.23 min Scan# 375

Delta R.T. -0.00 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

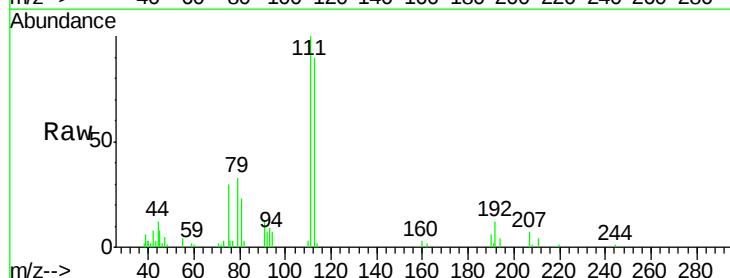
Tgt Ion: 42 Resp: 1574

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

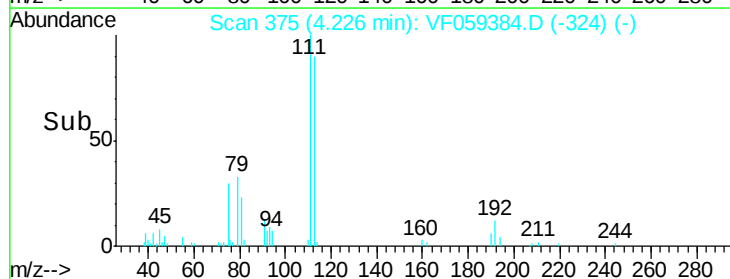
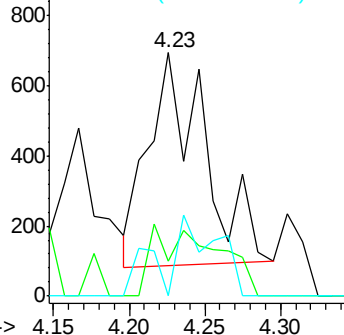
71 25.9 32.5 48.7#

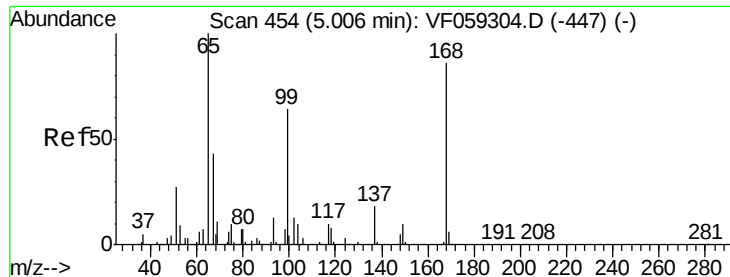


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 44.18 ug/l

RT: 4.99 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Instrument :

MSVOA_F

ClientSampleId :

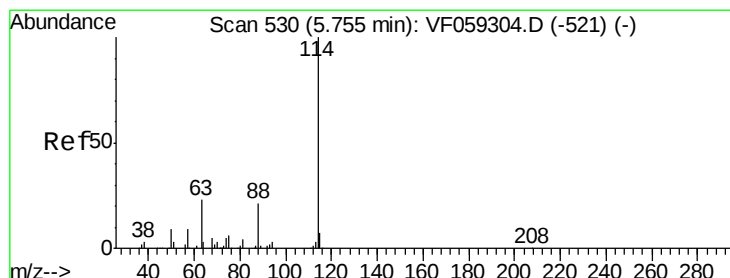
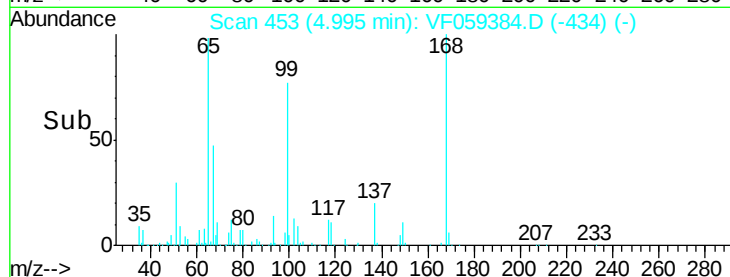
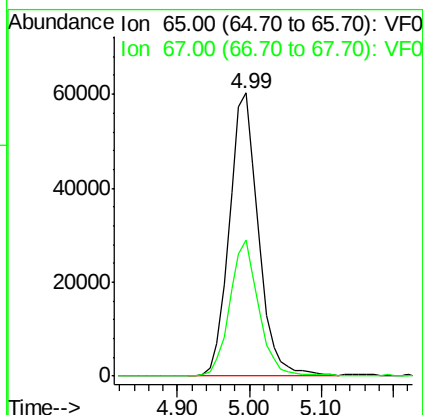
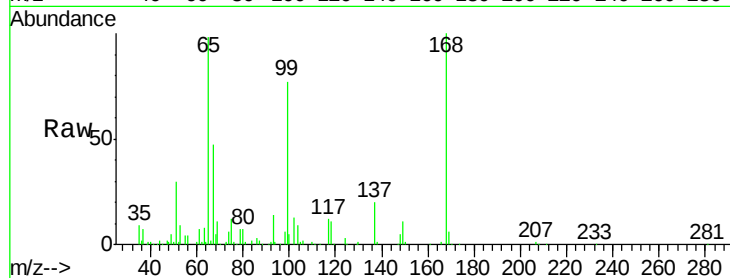
VF0702SBL01

Tot Ion: 65 Resp: 169291

Ion Ratio Lower Upper

65 100

67 48.2 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.73 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

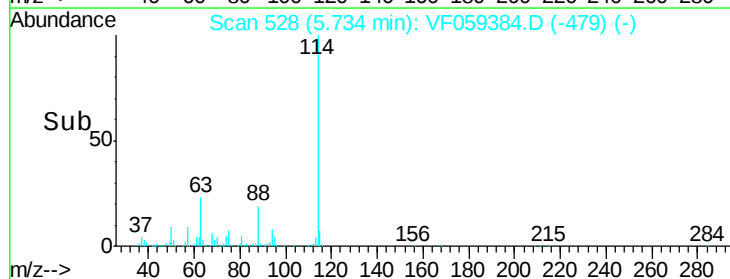
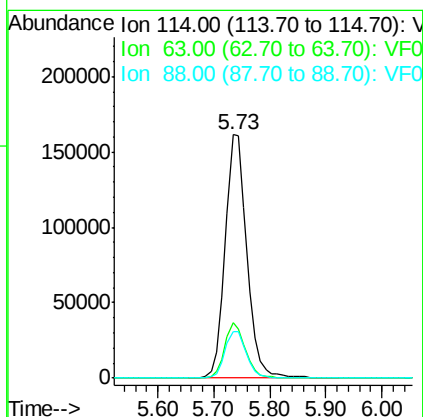
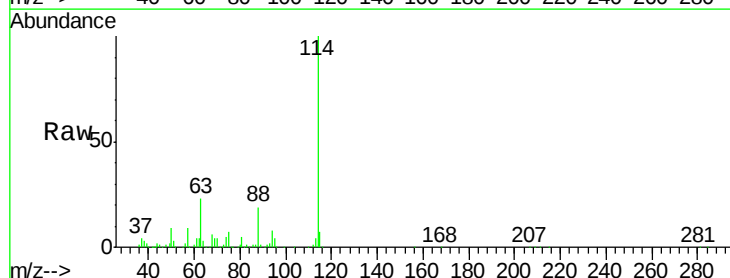
Tgt Ion: 114 Resp: 436333

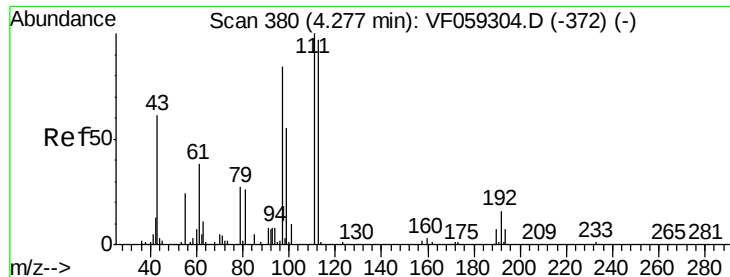
Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.8

88 18.9 0.0 41.2

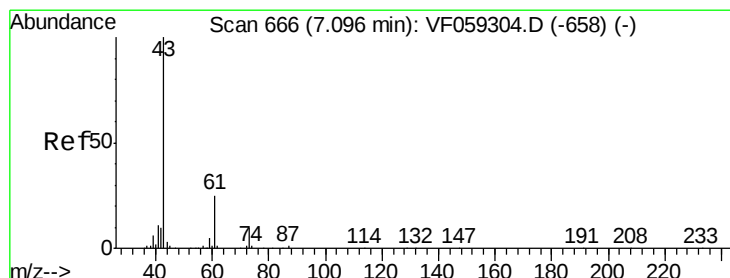
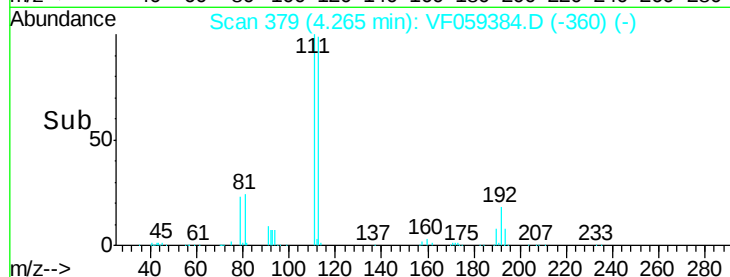
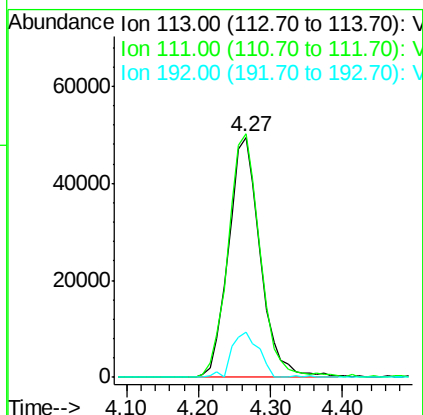
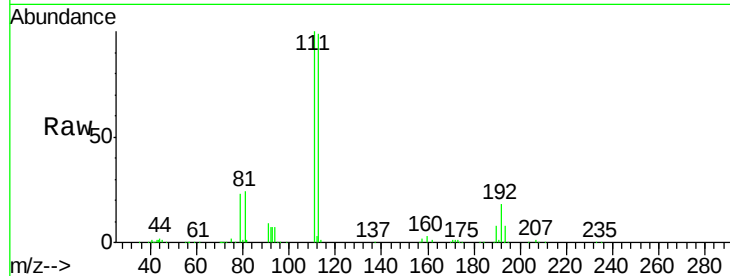




#35
Dibromofluoromethane
Concen: 47.62 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF059384.D
Acq: 2 Jul 2018 13:44

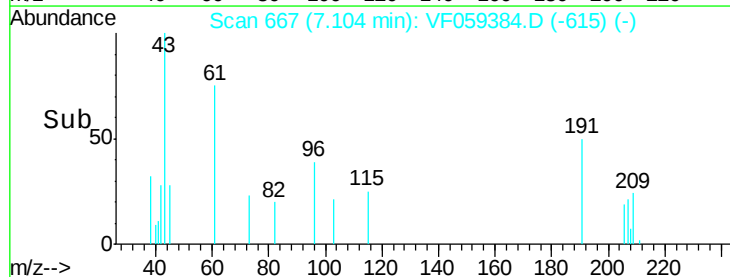
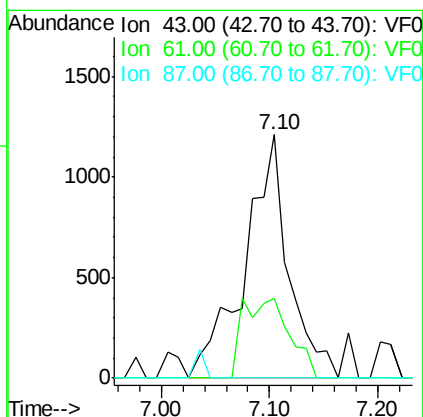
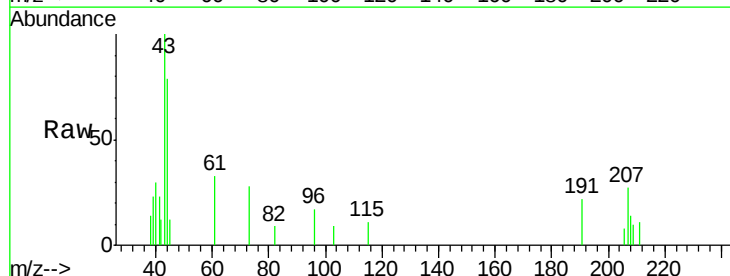
Instrument :
MSVOA_F
ClientSampleId :
VF0702SBL01

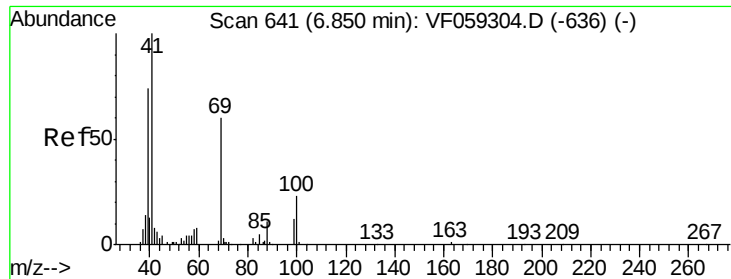
Tot Ion:113 Resp: 151805
Ion Ratio Lower Upper
113 100
111 101.5 82.1 123.1
192 18.7 13.0 19.6



#43
Isopropyl Acetate
Concen: 1.08 ug/l
RT: 7.10 min Scan# 667
Delta R.T. 0.01 min
Lab File: VF059384.D
Acq: 2 Jul 2018 13:44

Tgt Ion: 43 Resp: 3424
Ion Ratio Lower Upper
43 100
61 32.7 19.7 29.5#
87 0.0 0.5 0.7#





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.87 min Scan# 643

Delta R.T. 0.02 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Instrument :

MSVOA_F

ClientSampleId :

VF0702SBL01

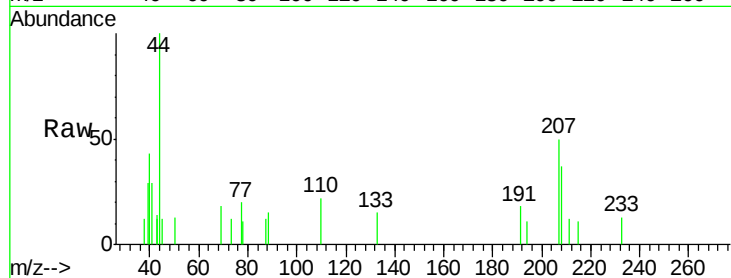
Tot Ion: 88 Resp: 145

Ion Ratio Lower Upper

88 100

43 171.7 50.6 75.8#

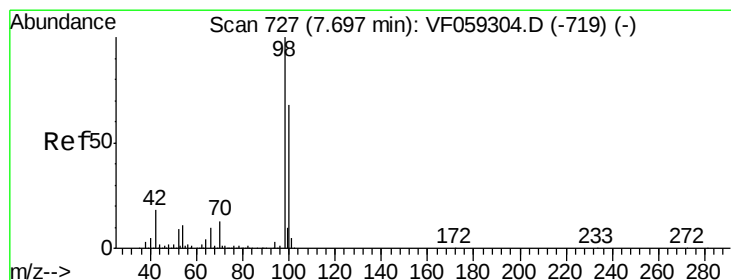
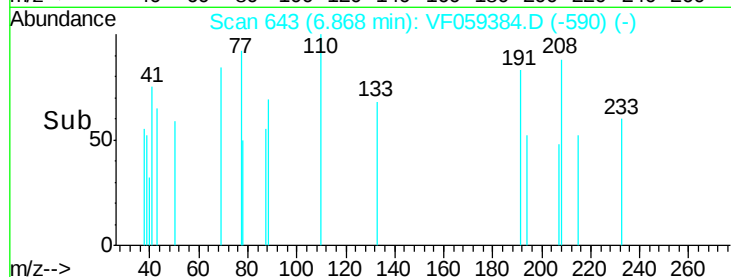
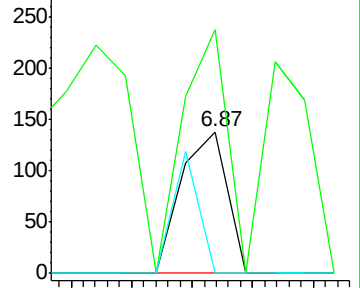
58 0.0 46.6 69.8#



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: 43.06 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059384.D

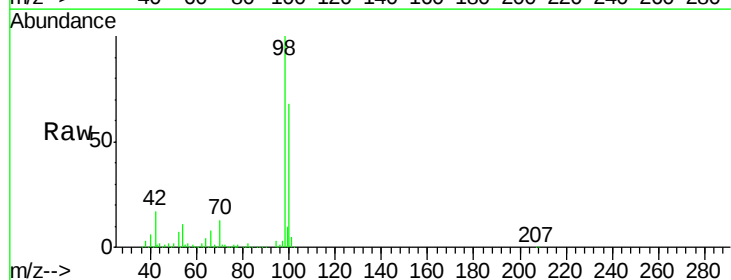
Acq: 2 Jul 2018 13:44

Tgt Ion: 98 Resp: 339899

Ion Ratio Lower Upper

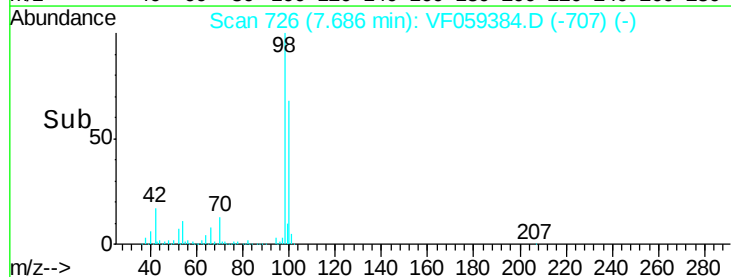
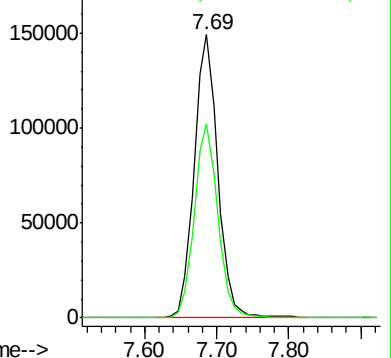
98 100

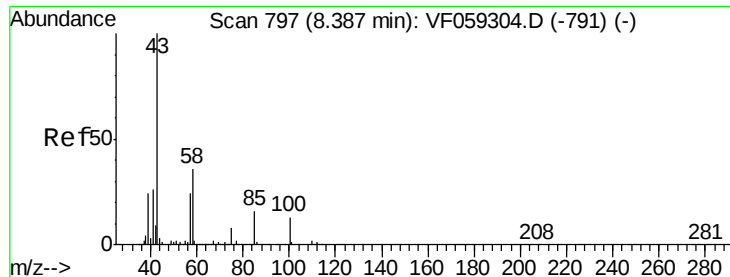
100 68.3 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 3.04 ug/l

RT: 8.38 min Scan# 796

Delta R.T. -0.01 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Instrument :

MSVOA_F

ClientSampleId :

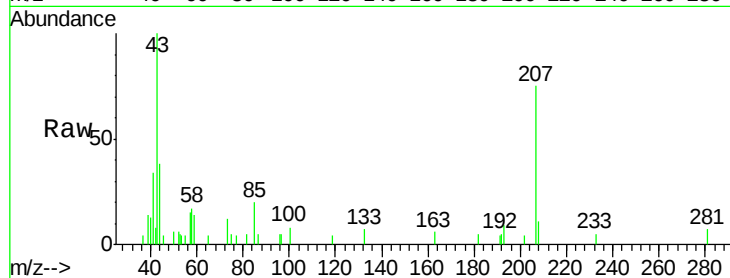
VF0702SBL01

Tot Ion: 43 Resp: 7158

Ion Ratio Lower Upper

43 100

58 17.4 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.38

2500

2000

1500

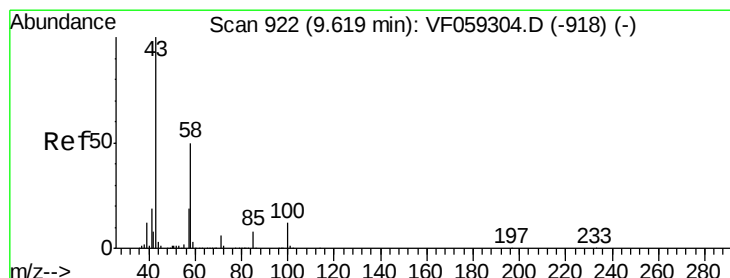
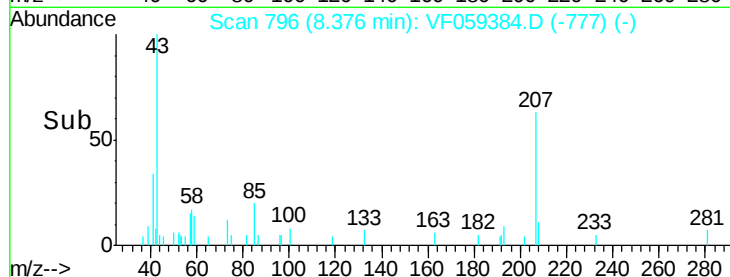
1000

500

0

8.30 8.35 8.40 8.45

Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.61 min Scan# 921

Delta R.T. -0.01 min

Lab File: VF059384.D

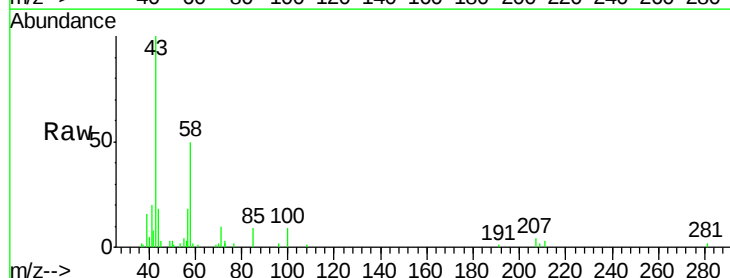
Acq: 2 Jul 2018 13:44

Tgt Ion: 43 Resp: 18932

Ion Ratio Lower Upper

43 100

58 50.5 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.61

10000

8000

6000

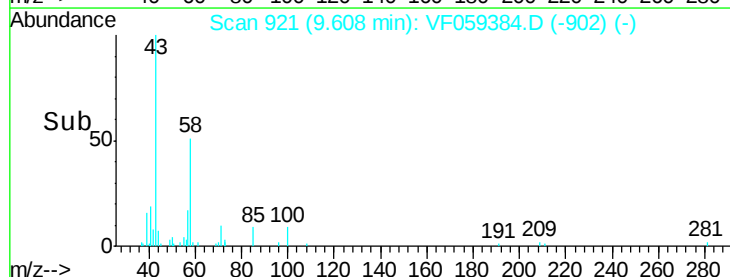
4000

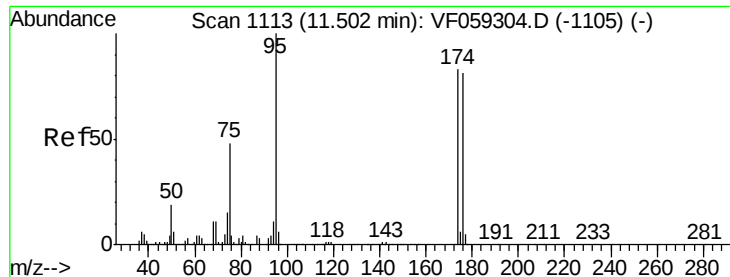
2000

0

9.55 9.60 9.65 9.70

Time-->





#62

4-Bromofluorobenzene

Concen: 46.76 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Instrument :

MSVOA_F

ClientSampleId :

VF0702SBL01

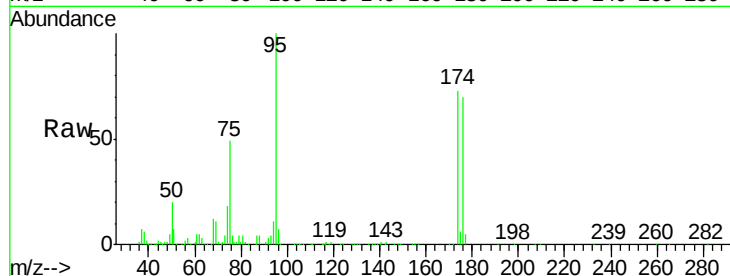
Tot Ion: 95 Resp: 208229

Ion Ratio Lower Upper

95 100

174 72.8 0.0 165.2

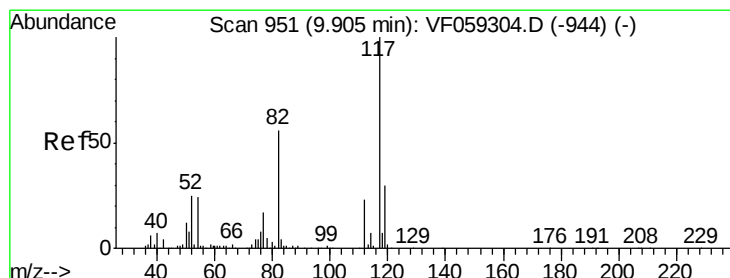
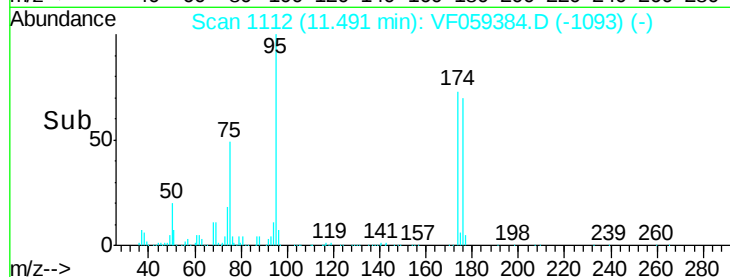
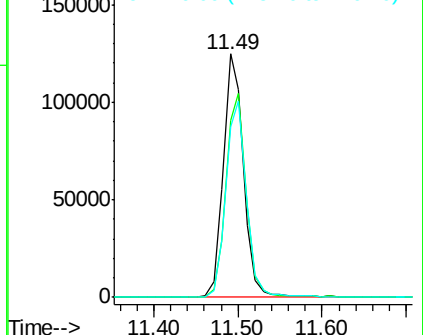
176 70.2 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.89 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

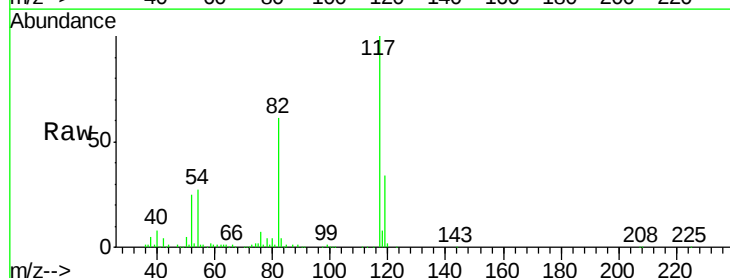
Tgt Ion: 117 Resp: 434565

Ion Ratio Lower Upper

117 100

82 60.7 44.6 66.8

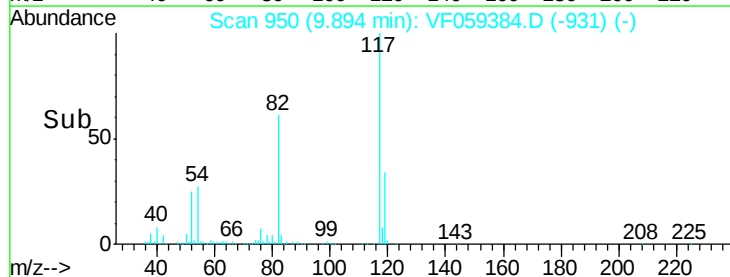
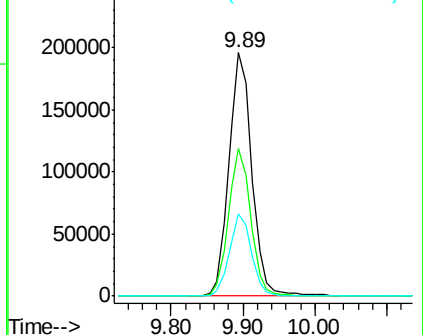
119 33.6 24.1 36.1

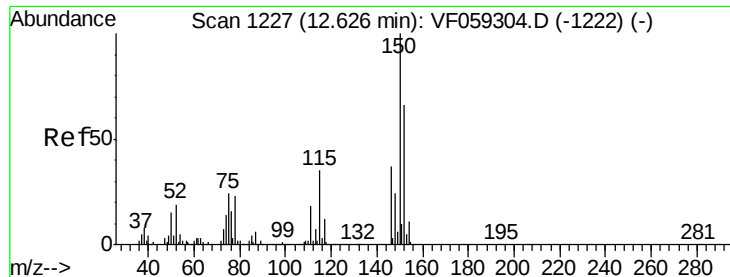


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Instrument :

MSVOA_F

ClientSampleId :

VF0702SBL01

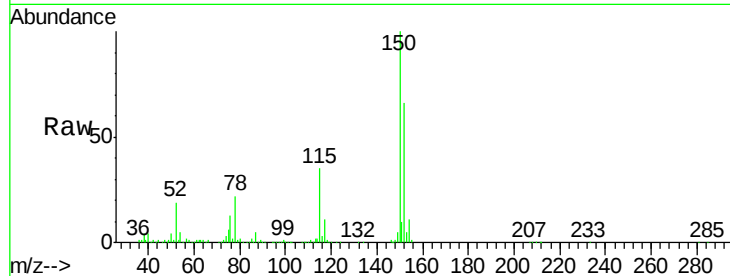
Tot Ion:152 Resp: 284904

Ion Ratio Lower Upper

152 100

115 53.5 27.1 81.3

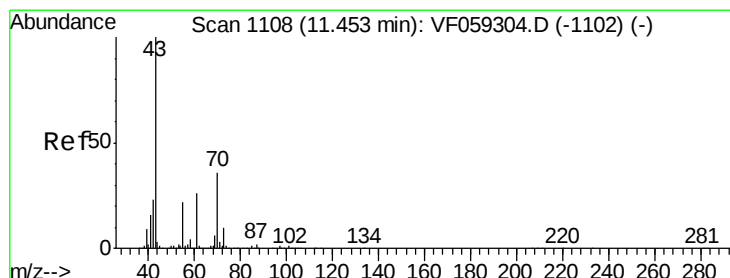
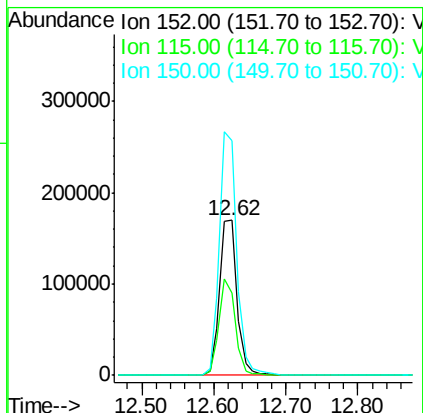
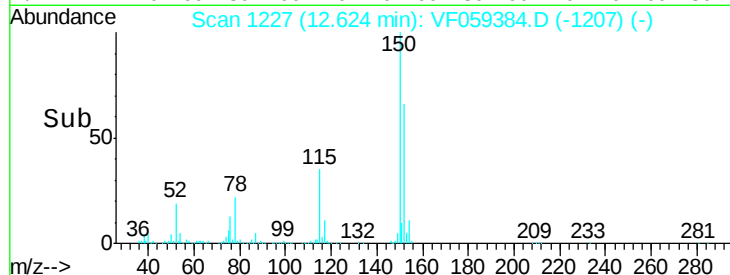
150 151.1 0.0 305.2



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-ethyl acetate

Concen: 1.58 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Tgt Ion: 43 Resp: 9520

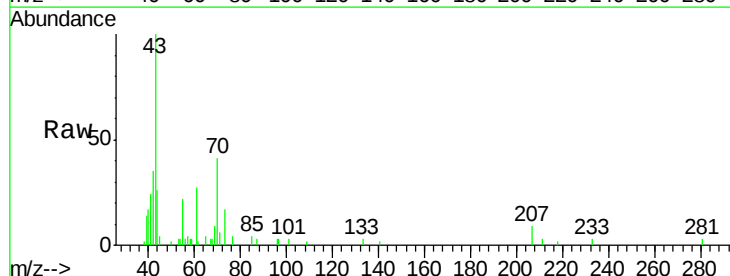
Ion Ratio Lower Upper

43 100

70 41.3 28.8 43.2

55 22.1 17.4 26.0

61 26.9 21.1 31.7

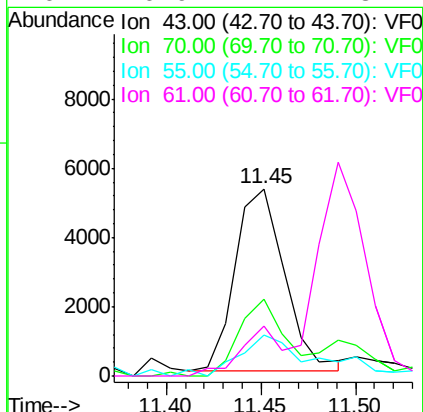
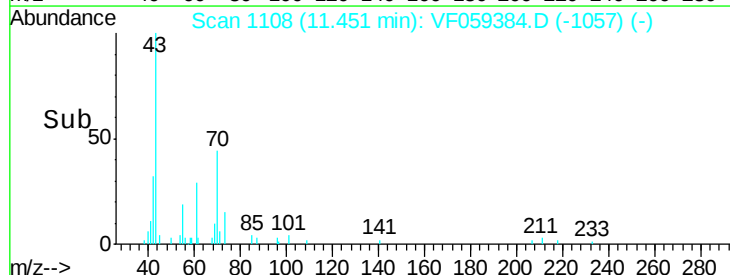


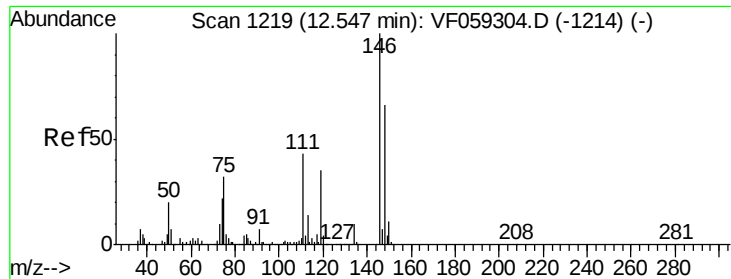
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.55 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

Instrument :

MSVOA_F

ClientSampleId :

VF0702SBL01

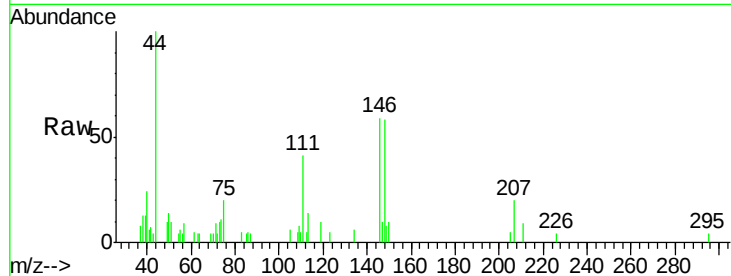
Tot Ion:146 Resp: 2766

Ion Ratio Lower Upper

146 100

111 60.2 21.4 64.2

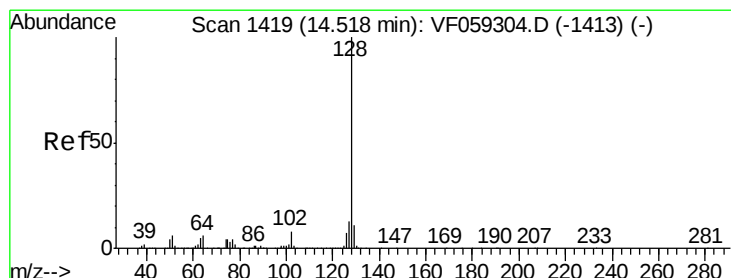
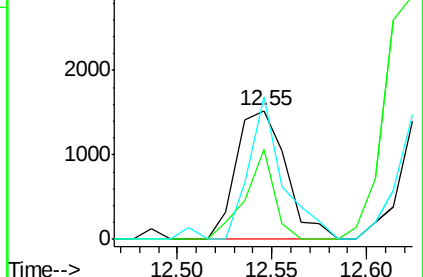
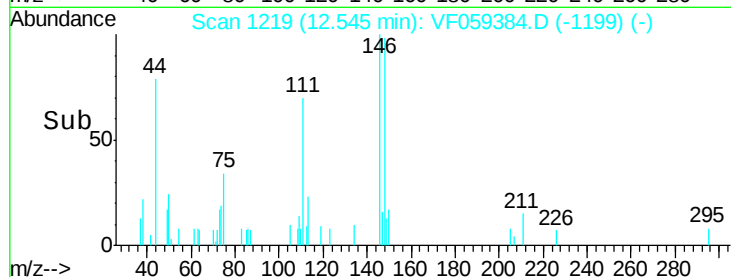
148 95.4 32.8 98.4



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



#95

Naphthalene

Concen: 1.02 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF059384.D

Acq: 2 Jul 2018 13:44

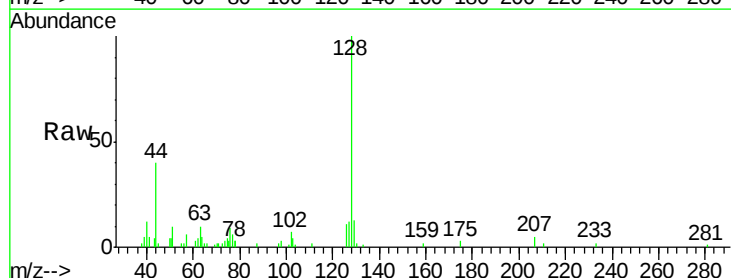
Tgt Ion:128 Resp: 13163

Ion Ratio Lower Upper

128 100

127 12.1 10.1 15.1

129 13.4 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

