

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122618\
 Data File : VF061184.D
 Acq On : 26 Dec 2018 13:13
 Operator : VA/AP
 Sample : J6447-04
 Misc : 3.82g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS024-1218-01

Quant Time: Dec 26 23:51:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	154145	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.57	114	254787	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	191091	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	61453	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	115289	58.15	ug/l	-0.02
Spiked Amount			Recovery	=	116.30%	
35) Dibromofluoromethane	4.09	113	126446	61.95	ug/l	-0.02
Spiked Amount			Recovery	=	123.90%	
50) Toluene-d8	7.54	98	246951	42.70	ug/l	-0.02
Spiked Amount			Recovery	=	85.40%	
62) 4-Bromofluorobenzene	11.40	95	80782	30.30	ug/l	0.00
Spiked Amount			Recovery	=	60.60%	

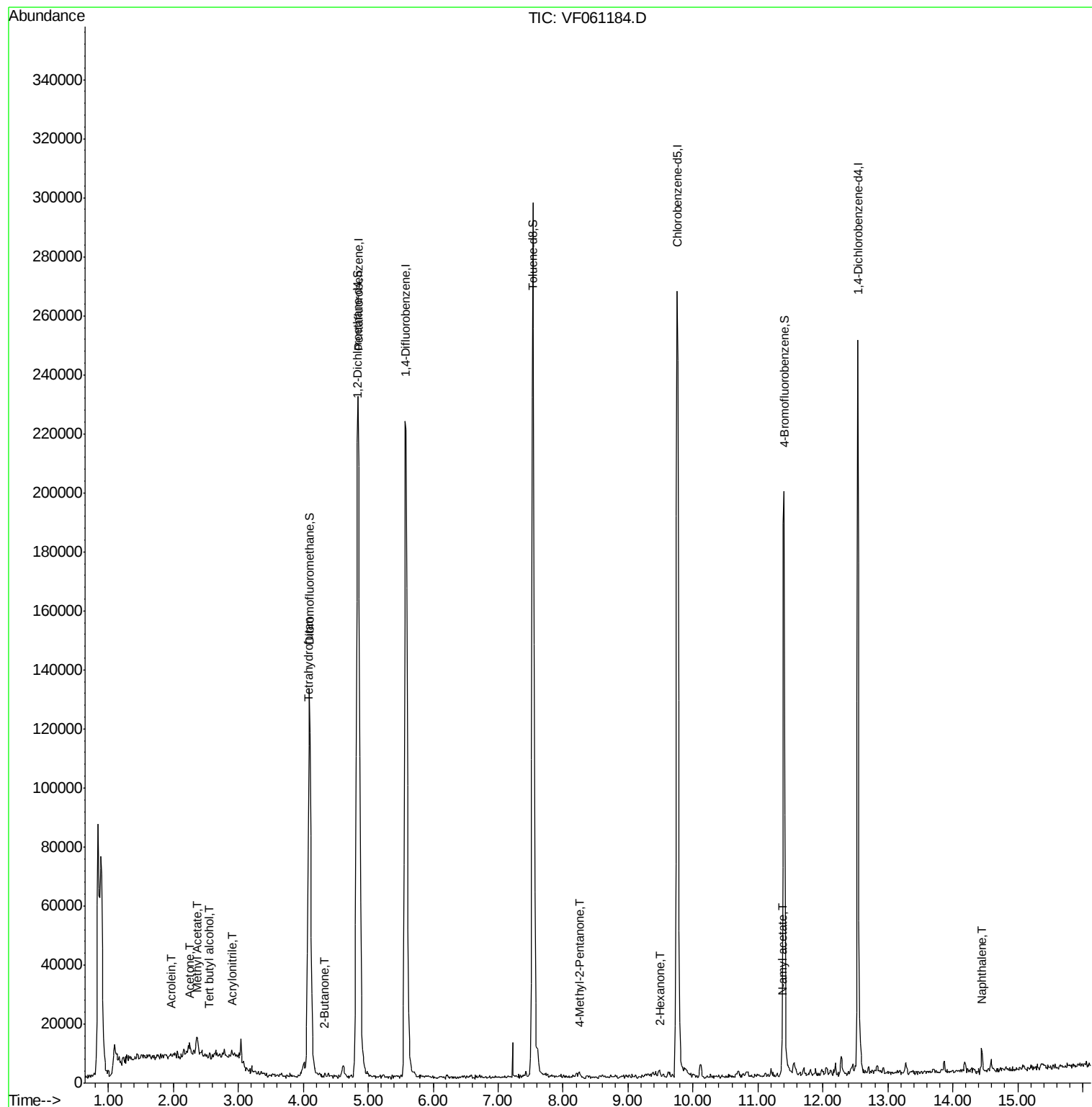
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	182	2.275	ug/l #	1
13) Acrolein	1.97	56	105	1.816	ug/l #	8
15) Acrylonitrile	2.91	53	623	3.368	ug/l #	31
16) Acetone	2.24	43	3277	8.268	ug/l #	66
18) Methyl Acetate	2.38	43	3497	4.265	ug/l #	66
20) Methylene Chloride	2.25	84	2397	Below Cal	#	62
25) 2-Butanone	4.33	43	879	1.367	ug/l #	57
29) Tetrahydrofuran	4.07	42	648	2.477	ug/l #	57
51) 4-Methyl-2-Pentanone	8.25	43	1782	1.750	ug/l #	60
59) 2-Hexanone	9.48	43	3106	4.217	ug/l	99
70) Styrene	10.78	104	513	Below Cal		90
74) N-amyl acetate	11.36	43	1783	1.516	ug/l #	88
87) 1,3-Dichlorobenzene	12.56	146	681	Below Cal		79
95) Naphthalene	14.44	128	4349	1.648	ug/l #	95

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

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061184.D

Acq: 26 Dec 2018 13:13

Instrument :

MSVOA_F

ClientSampleId :

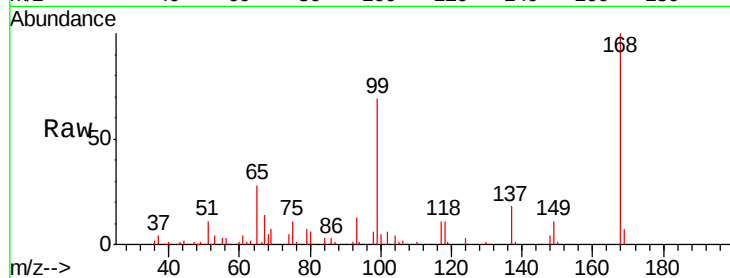
P001-SS024-1218-01

Tgt Ion:168 Resp: 154145

Ion Ratio Lower Upper

168 100

99 69.4 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

50000

40000

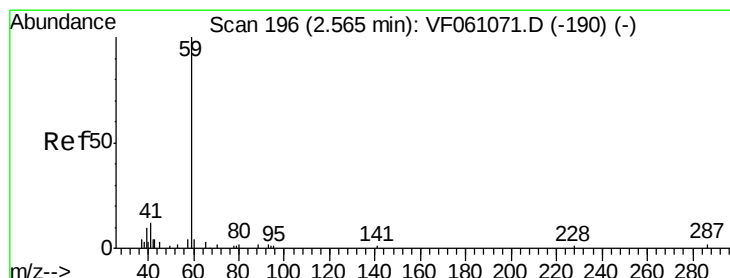
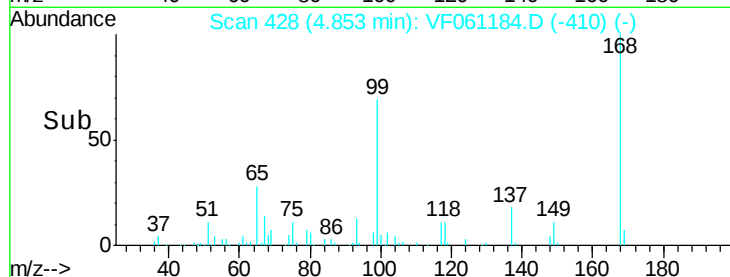
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.275 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.00 min

Lab File: VF061184.D

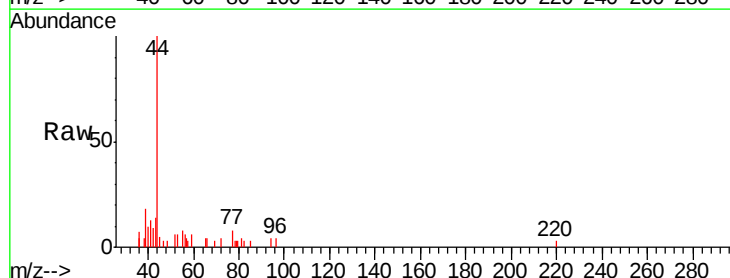
Acq: 26 Dec 2018 13:13

Tgt Ion: 59 Resp: 182

Ion Ratio Lower Upper

59 100

57 122.3 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

250

200

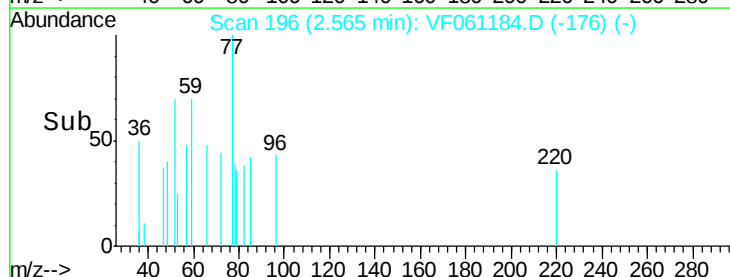
150

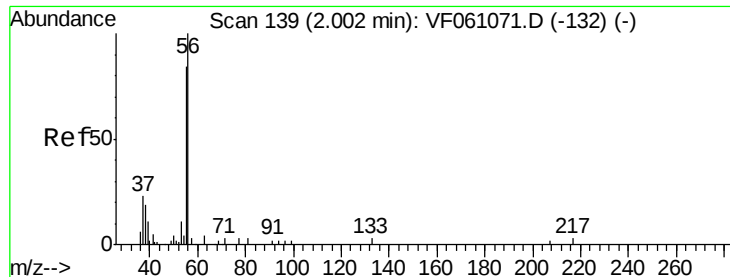
100

50

0

Time-->





#13

Acrolein

Concen: 1.816 ug/l

RT: 1.97 min Scan# 136

Delta R.T. -0.03 min

Lab File: VF061184.D

Acq: 26 Dec 2018 13:13

Instrument :

MSVOA_F

ClientSampleId :

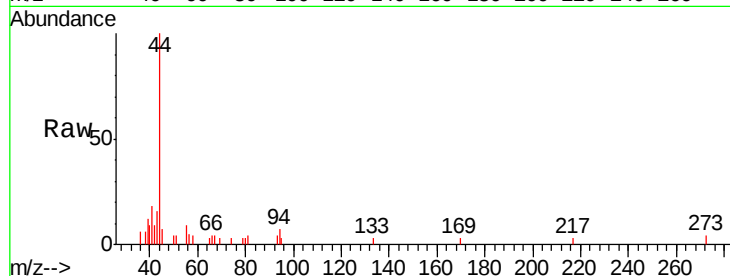
P001-SS024-1218-01

Tgt Ion: 56 Resp: 105

Ion Ratio Lower Upper

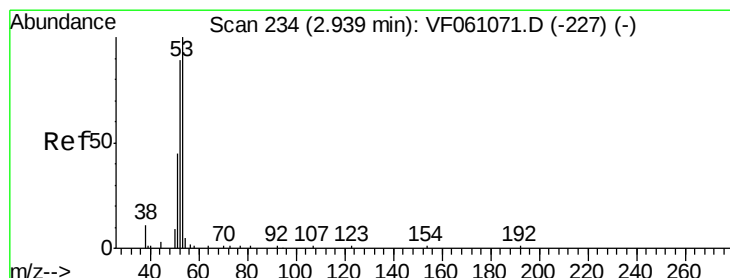
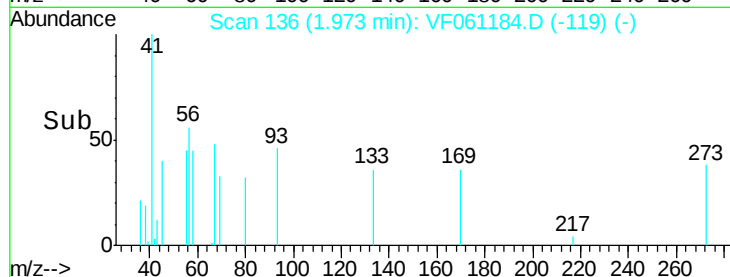
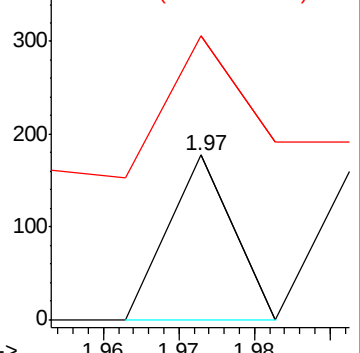
56 100

55 172.9 70.2 105.2#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 3.368 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.03 min

Lab File: VF061184.D

Acq: 26 Dec 2018 13:13

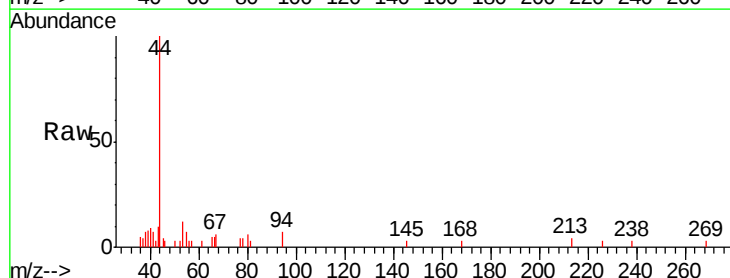
Tgt Ion: 53 Resp: 623

Ion Ratio Lower Upper

53 100

52 24.5 71.3 106.9#

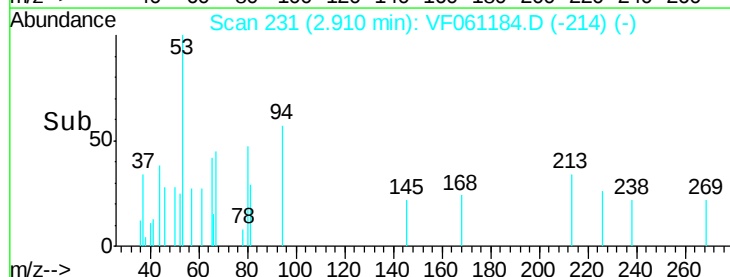
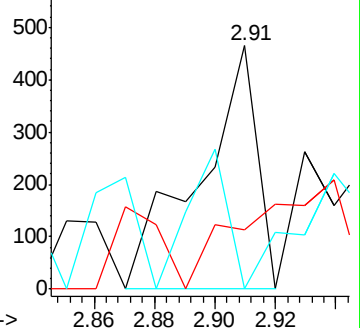
51 0.0 36.8 55.2#

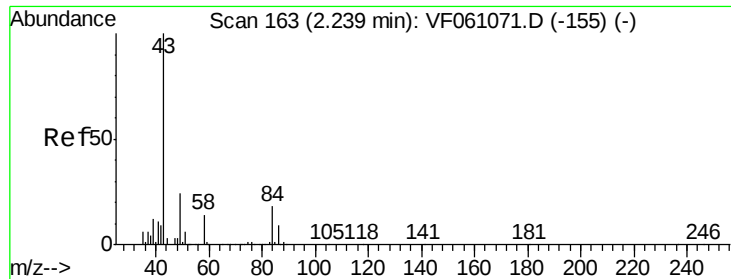


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 8.268 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF061184.D

Acq: 26 Dec 2018 13:13

Instrument :

MSVOA_F

ClientSampleId :

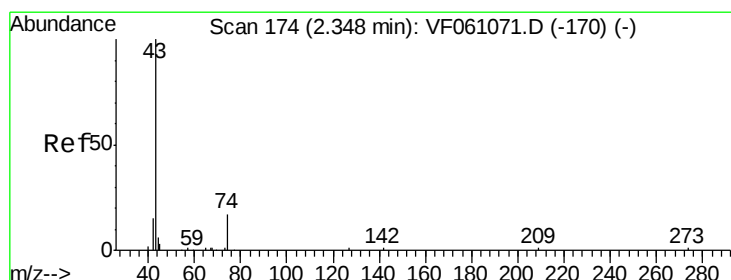
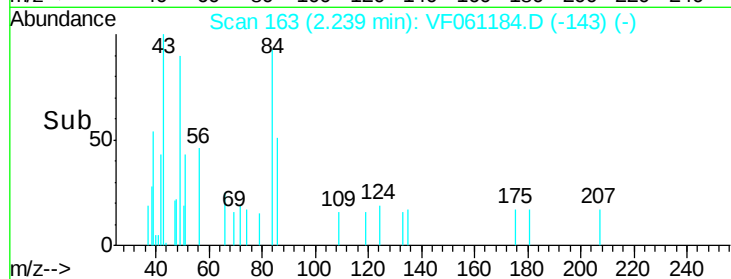
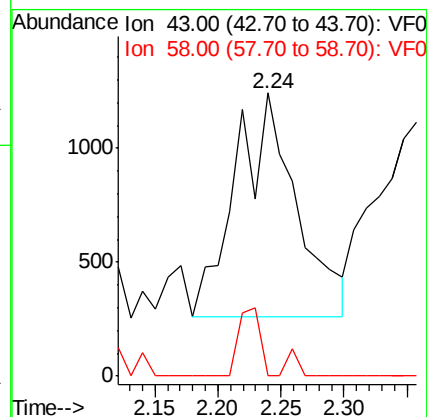
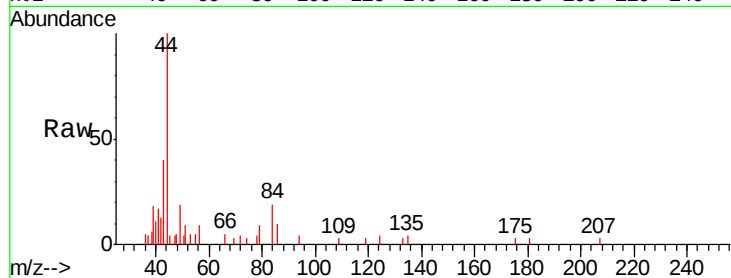
P001-SS024-1218-01

Tgt Ion: 43 Resp: 3277

Ion Ratio Lower Upper

43 100

58 0.0 11.1 16.7#



#18

Methyl Acetate

Concen: 4.265 ug/l

RT: 2.38 min Scan# 177

Delta R.T. 0.03 min

Lab File: VF061184.D

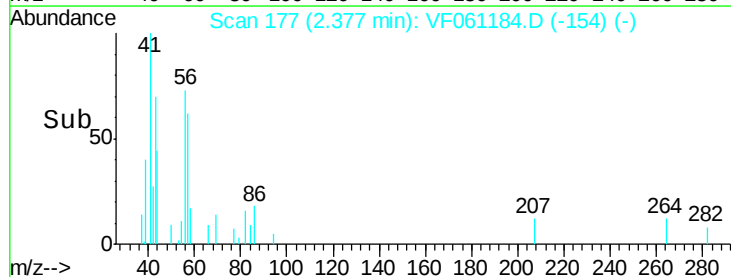
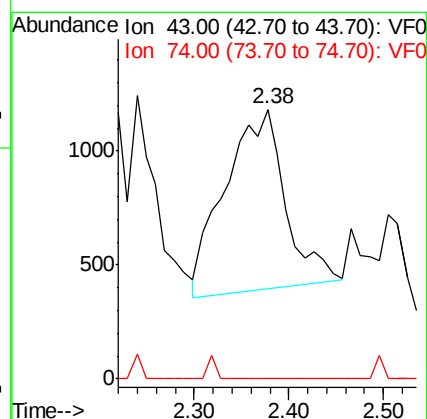
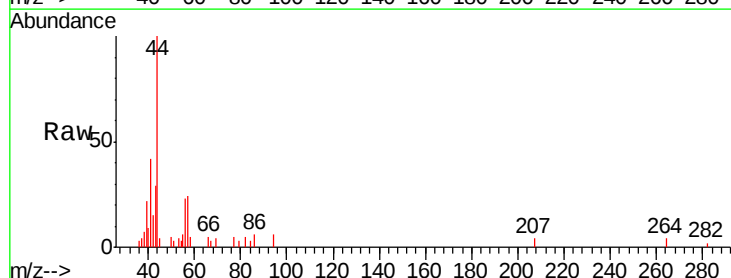
Acq: 26 Dec 2018 13:13

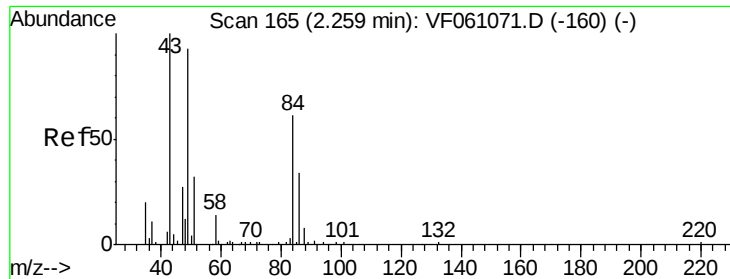
Tgt Ion: 43 Resp: 3497

Ion Ratio Lower Upper

43 100

74 0.0 11.0 16.6#

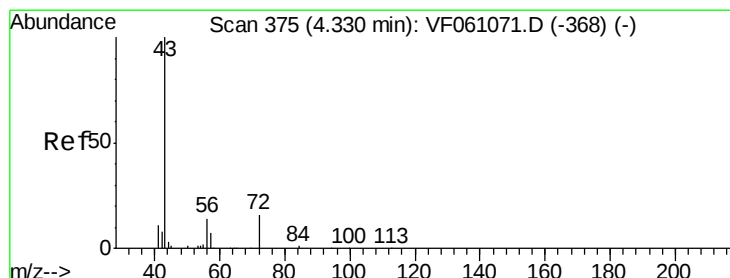
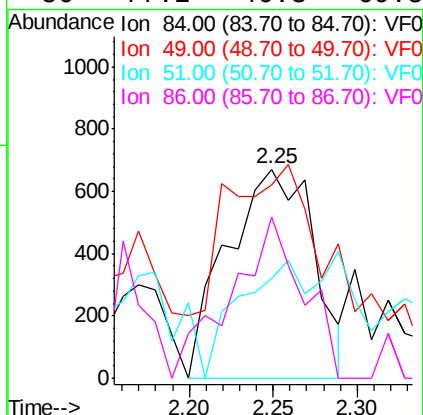
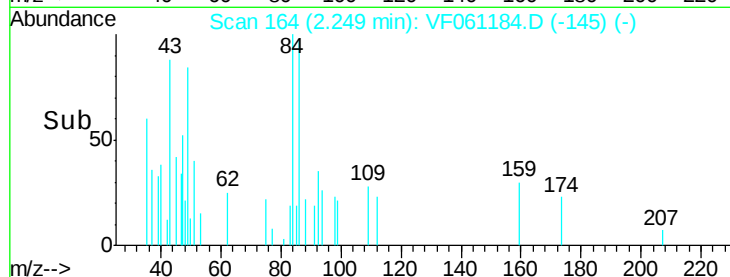
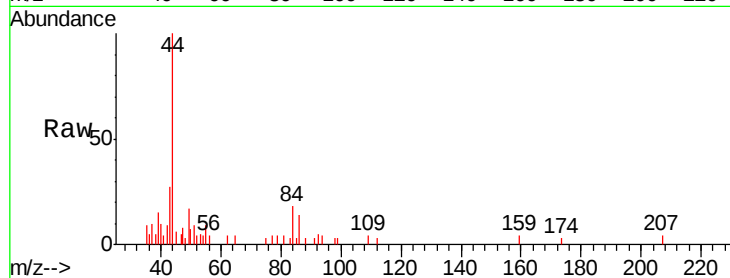




#20
Methylene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF061184.D
Acq: 26 Dec 2018 13:13

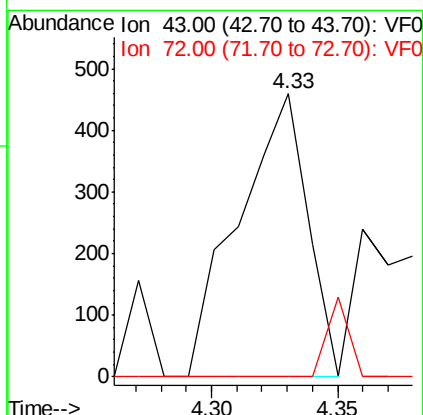
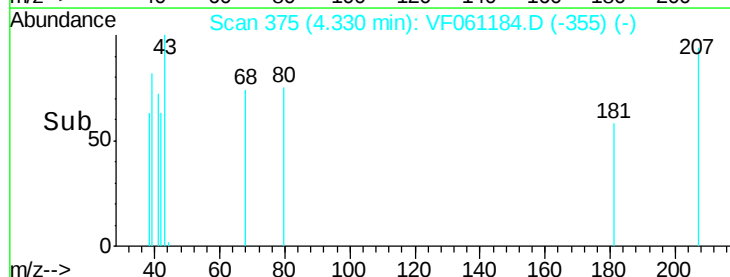
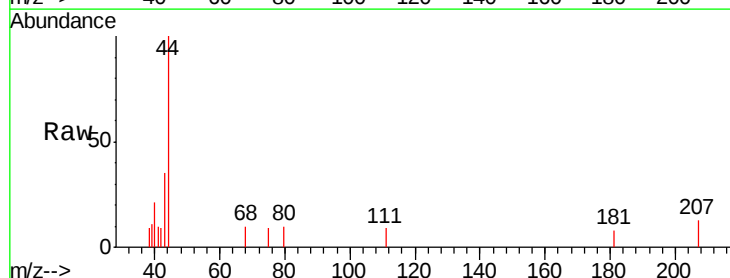
Instrument :
MSVOA_F
ClientSampleId :
P001-SS024-1218-01

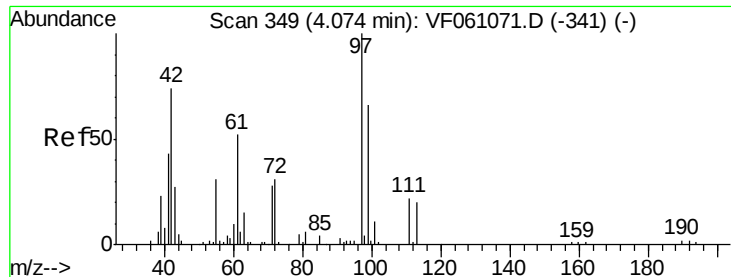
Tgt Ion: 84 Resp: 2397
Ion Ratio Lower Upper
84 100
49 92.4 129.4 194.2#
51 47.6 44.0 66.0
86 77.2 46.3 69.5#



#25
2-Butanone
Concen: 1.367 ug/l
RT: 4.33 min Scan# 375
Delta R.T. 0.00 min
Lab File: VF061184.D
Acq: 26 Dec 2018 13:13

Tgt Ion: 43 Resp: 879
Ion Ratio Lower Upper
43 100
72 0.0 15.6 23.4#





#29

Tetrahydrofuran

Concen: 2.477 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.00 min

Lab File: VF061184.D

Acq: 26 Dec 2018 13:13

Instrument :

MSVOA_F

ClientSampleId :

P001-SS024-1218-01

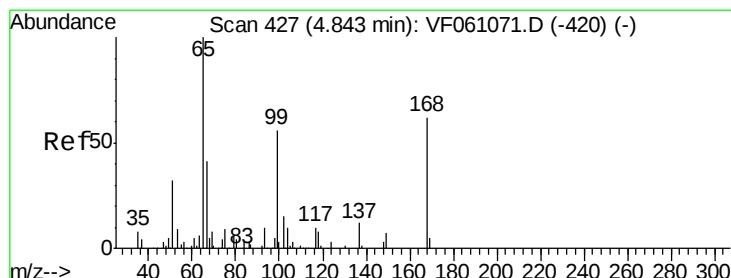
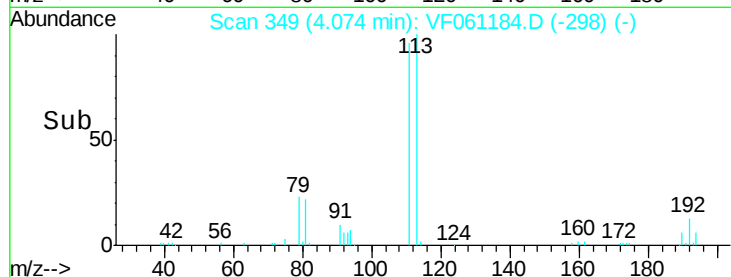
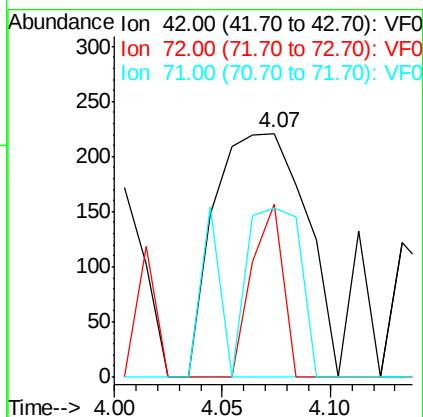
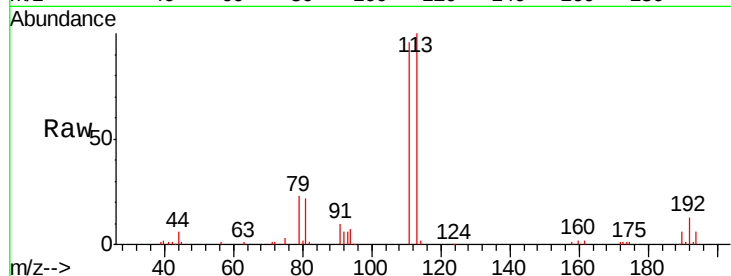
Tgt Ion: 42 Resp: 648

Ion Ratio Lower Upper

42 100

72 23.9 31.8 47.8#

71 0.0 29.7 44.5#



#33

1,2-Dichloroethane-d4

Concen: 58.151 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.02 min

Lab File: VF061184.D

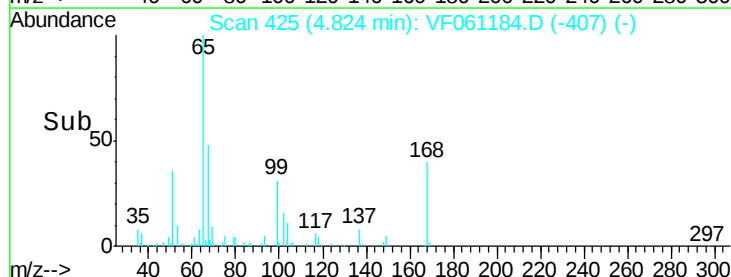
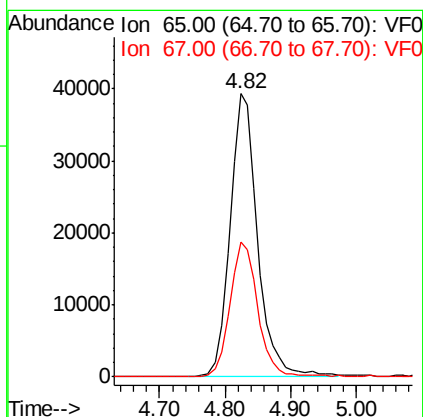
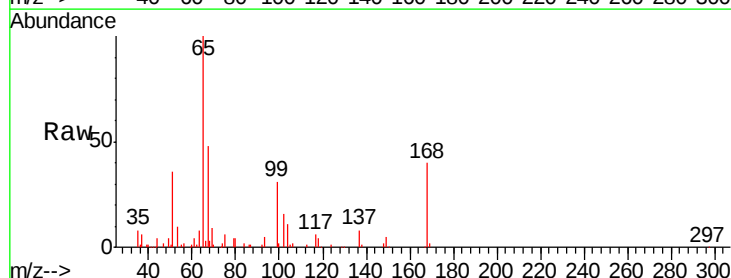
Acq: 26 Dec 2018 13:13

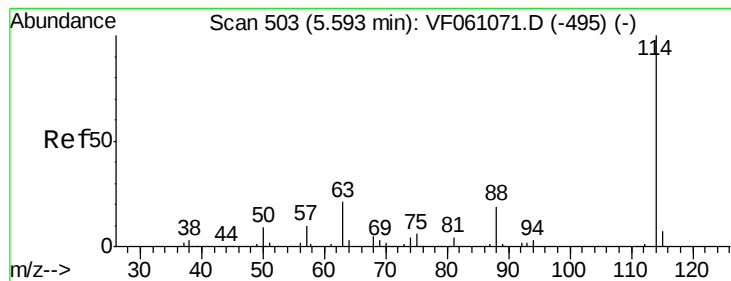
Tgt Ion: 65 Resp: 115289

Ion Ratio Lower Upper

65 100

67 47.9 0.0 94.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.02 min

Lab File: VF061184.D

Acq: 26 Dec 2018 13:13

Instrument :

MSVOA_F

ClientSampleId :

P001-SS024-1218-01

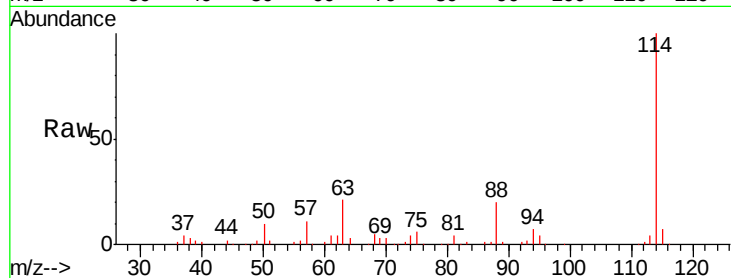
Tgt Ion:114 Resp: 254787

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.6

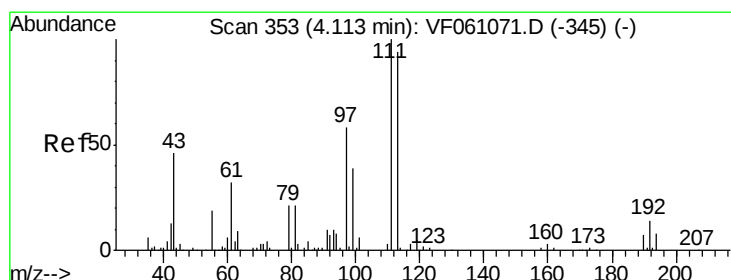
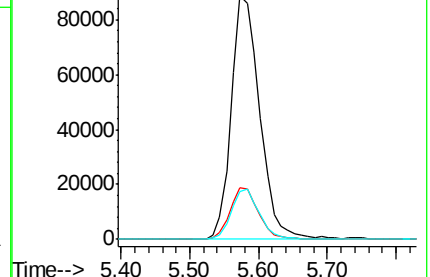
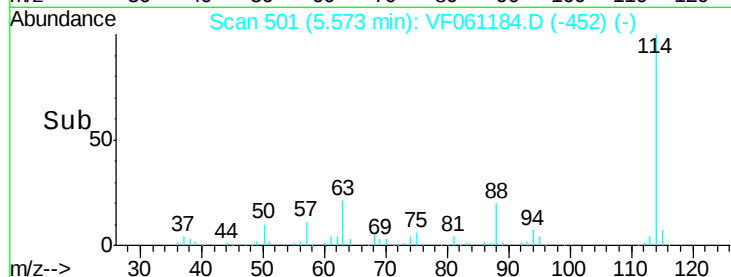
88 19.9 0.0 38.0



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: 61.953 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061184.D

Acq: 26 Dec 2018 13:13

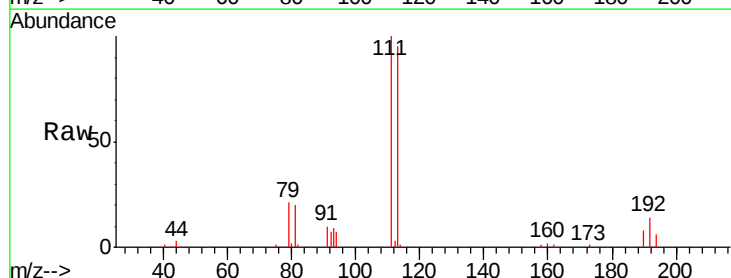
Tgt Ion:113 Resp: 126446

Ion Ratio Lower Upper

113 100

111 105.4 85.2 127.8

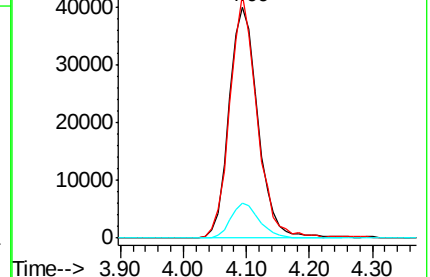
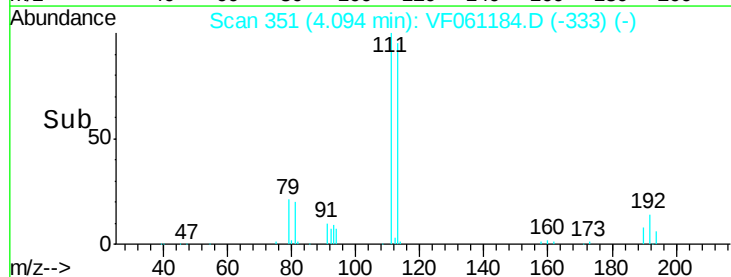
192 15.5 12.8 19.2

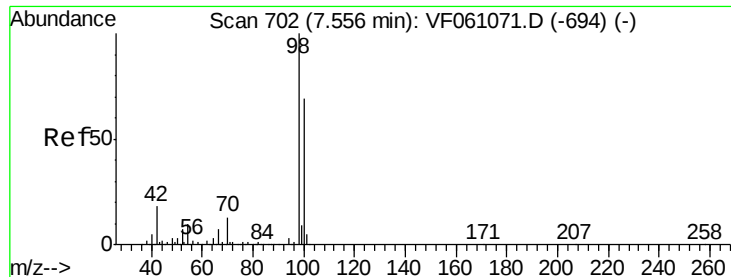


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

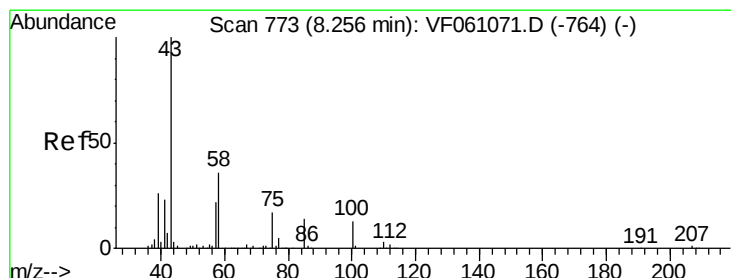
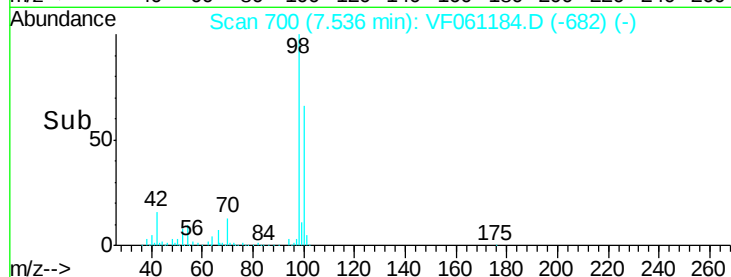
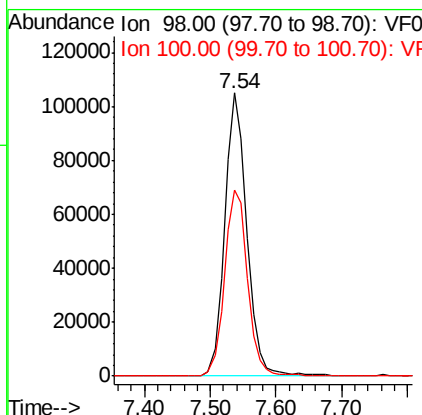
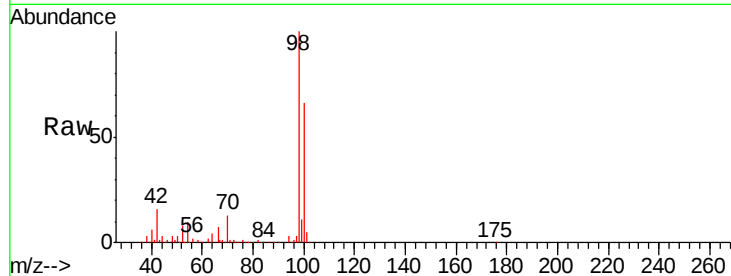




#50
Toluene-d8
Concen: 42.696 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF061184.D
Acq: 26 Dec 2018 13:13

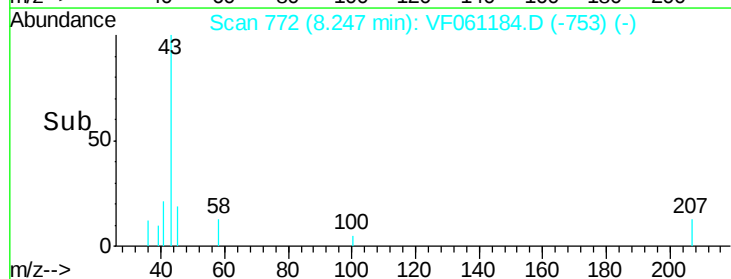
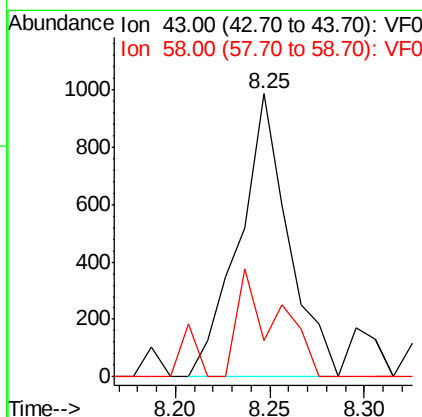
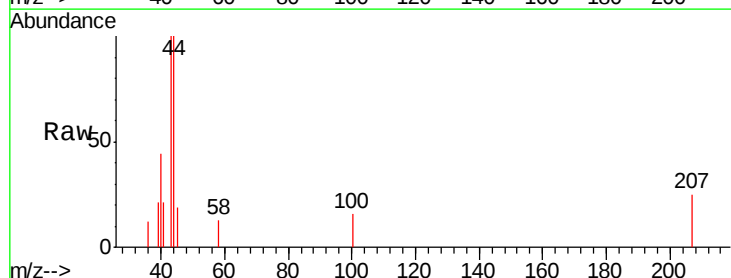
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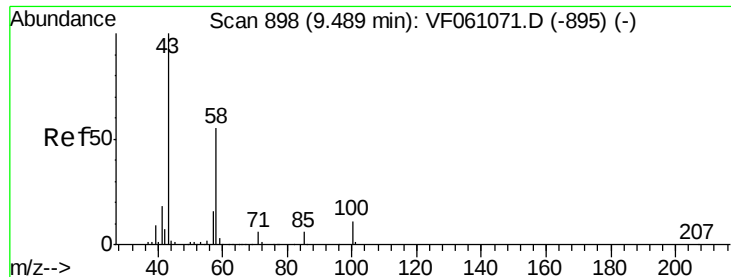
Tgt Ion: 98 Resp: 246951
Ion Ratio Lower Upper
98 100
100 65.8 55.3 82.9



#51
4-Methyl-2-Pentanone
Concen: 1.750 ug/l
RT: 8.25 min Scan# 772
Delta R.T. -0.01 min
Lab File: VF061184.D
Acq: 26 Dec 2018 13:13

Tgt Ion: 43 Resp: 1782
Ion Ratio Lower Upper
43 100
58 12.9 29.1 43.7#

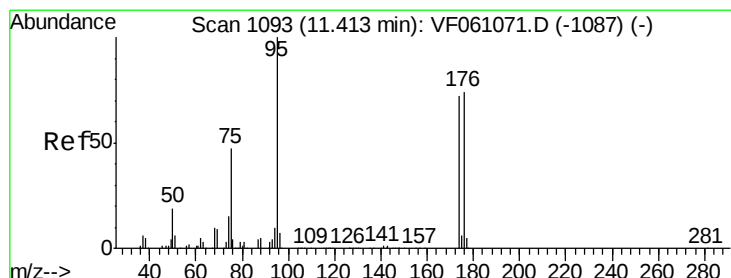
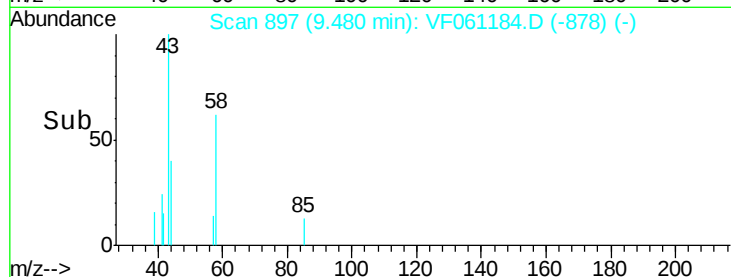
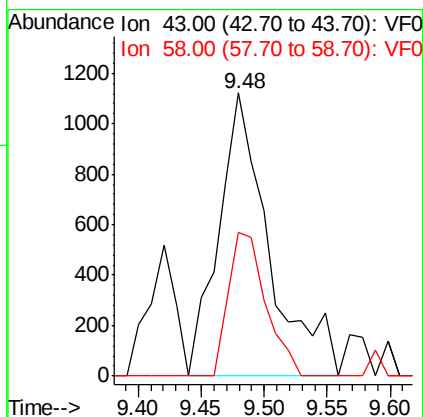
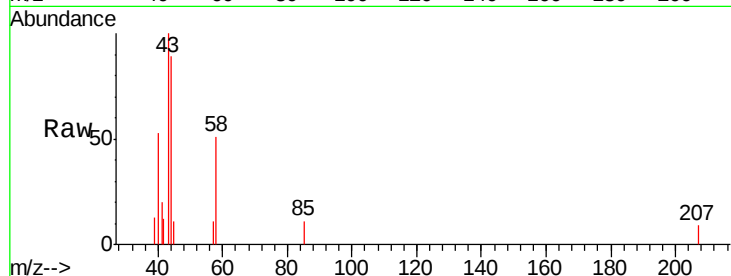




#59
2-Hexanone
Concen: 4.217 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.01 min
Lab File: VF061184.D
Acq: 26 Dec 2018 13:13

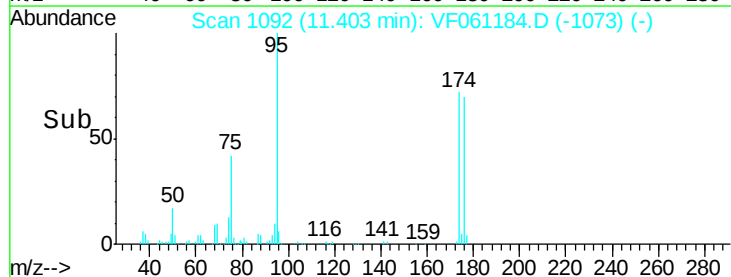
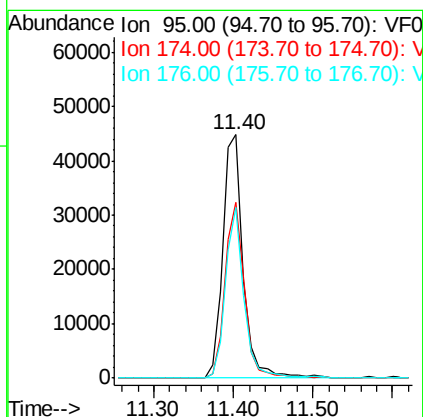
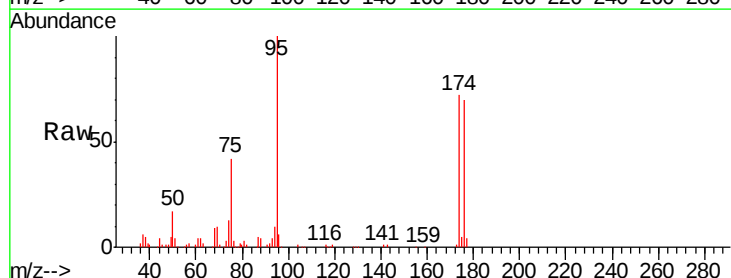
Instrument :
MSVOA_F
ClientSampleId :
P001-SS024-1218-01

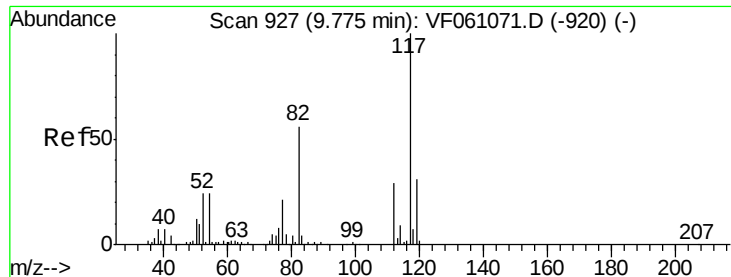
Tgt Ion: 43 Resp: 3106
Ion Ratio Lower Upper
43 100
58 50.8 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 30.296 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF061184.D
Acq: 26 Dec 2018 13:13

Tgt Ion: 95 Resp: 80782
Ion Ratio Lower Upper
95 100
174 72.0 0.0 143.8
176 70.2 0.0 147.6

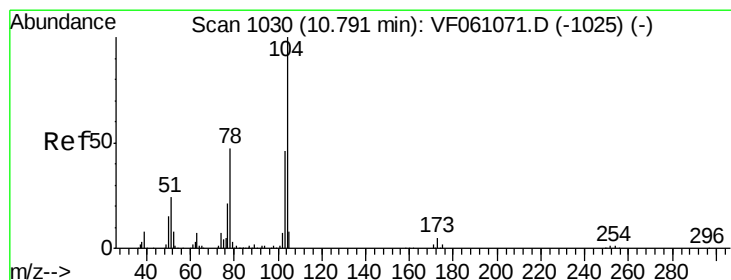
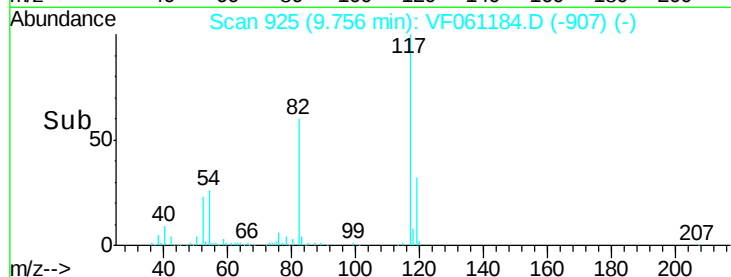
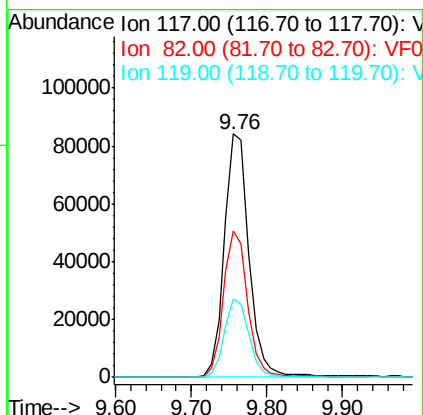
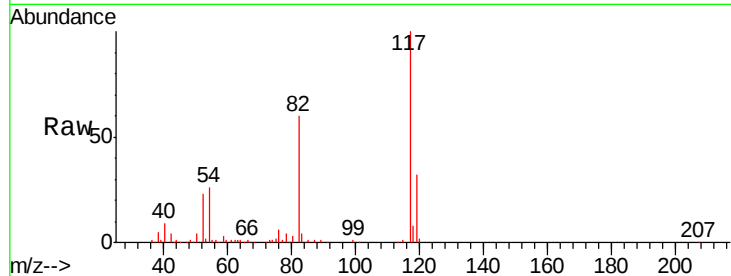




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 925
Delta R.T. -0.02 min
Lab File: VF061184.D
Acq: 26 Dec 2018 13:13

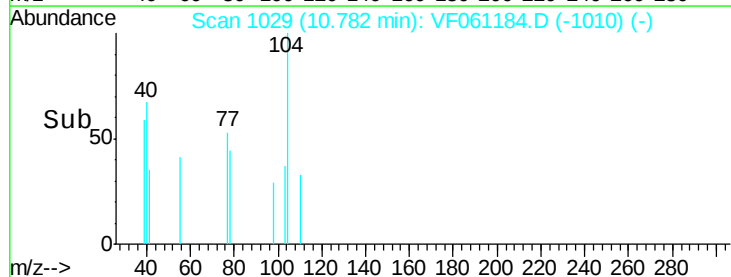
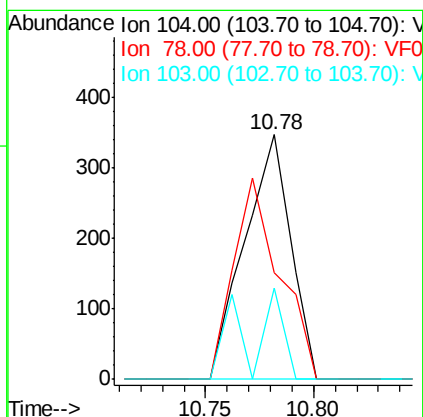
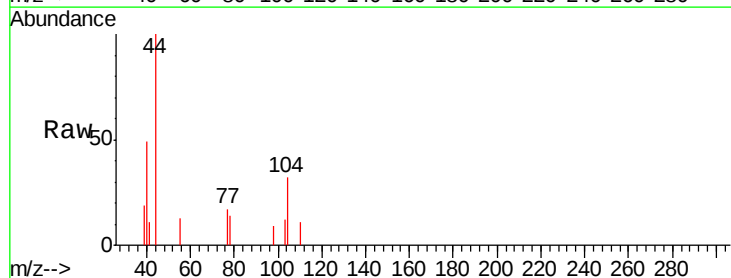
Instrument :
MSVOA_F
ClientSampleId :
P001-SS024-1218-01

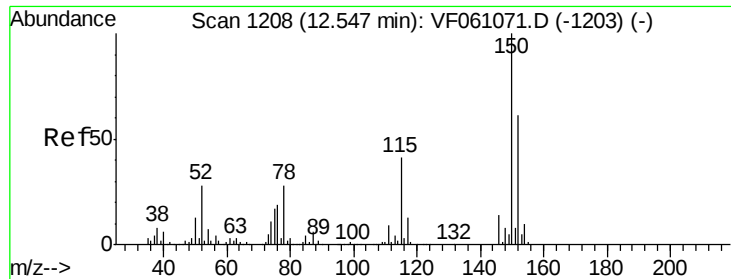
Tgt Ion:117 Resp: 191091
Ion Ratio Lower Upper
117 100
82 60.2 45.0 67.4
119 32.1 24.8 37.2



#70
Styrene
Concen: Below Cal
RT: 10.78 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VF061184.D
Acq: 26 Dec 2018 13:13

Tgt Ion:104 Resp: 513
Ion Ratio Lower Upper
104 100
78 43.5 38.4 57.6
103 37.2 37.0 55.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF061184.D

Acq: 26 Dec 2018 13:13

Instrument :

MSVOA_F

ClientSampleId :

P001-SS024-1218-01

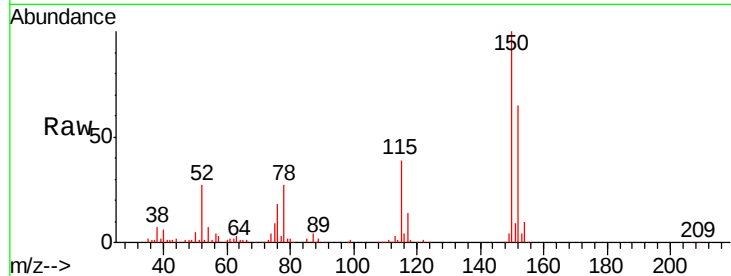
Tgt Ion:152 Resp: 61453

Ion Ratio Lower Upper

152 100

115 60.2 33.3 99.9

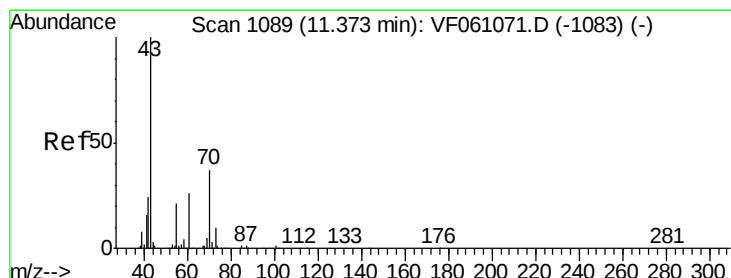
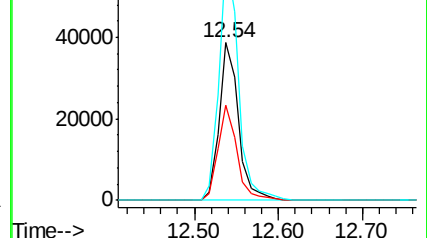
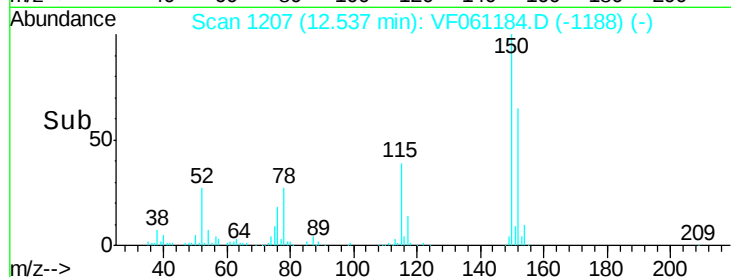
150 154.6 0.0 328.2



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: 1.516 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061184.D

Acq: 26 Dec 2018 13:13

Tgt Ion: 43 Resp: 1783

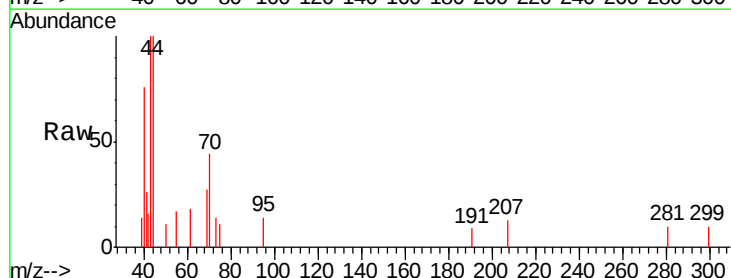
Ion Ratio Lower Upper

43 100

70 43.7 29.2 43.8

55 16.6 16.5 24.7

61 18.4 20.7 31.1#

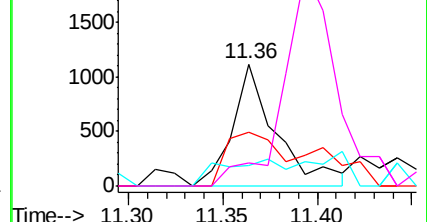
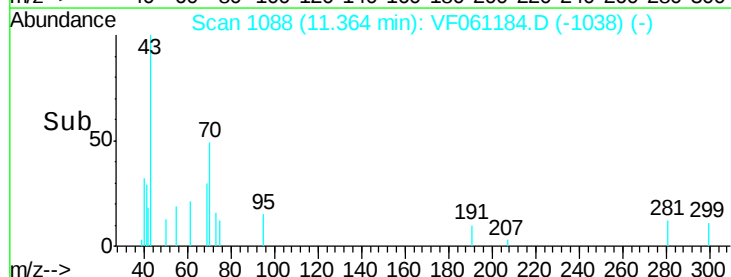


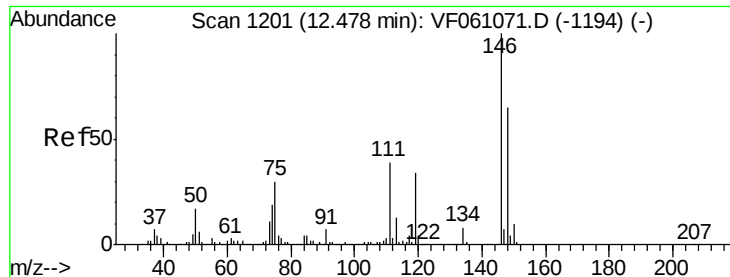
Abundance Ion 43.00 (42.70 to 43.70): VF0

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

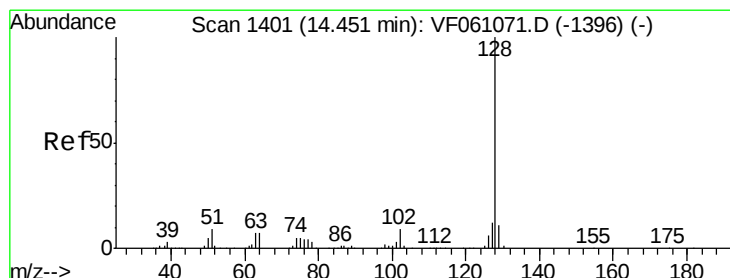
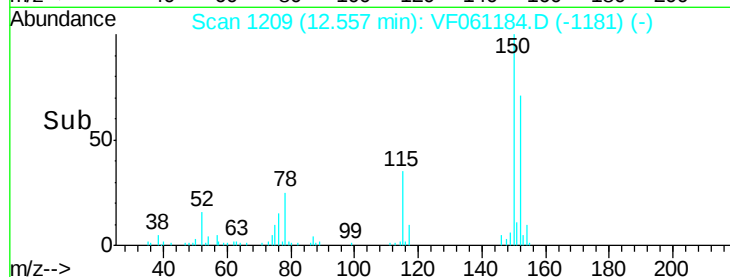
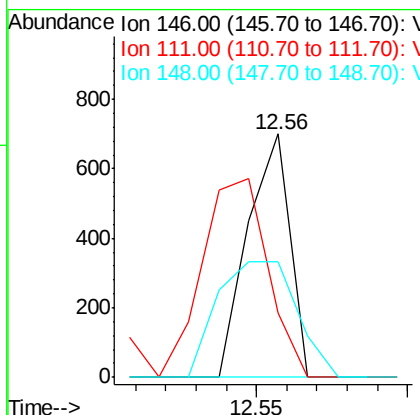
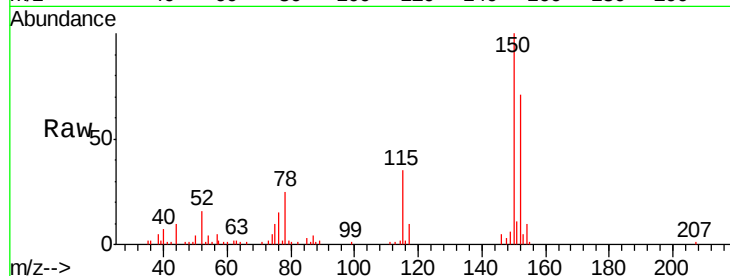




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.56 min Scan# 1209
 Delta R.T. 0.08 min
 Lab File: VF061184.D
 Acq: 26 Dec 2018 13:13

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS024-1218-01

Tgt Ion:146 Resp: 681
 Ion Ratio Lower Upper
 146 100
 111 26.2 19.3 57.9
 148 47.4 32.4 97.2



#95
 Naphthalene
 Concen: 1.648 ug/l
 RT: 14.44 min Scan# 1400
 Delta R.T. -0.01 min
 Lab File: VF061184.D
 Acq: 26 Dec 2018 13:13

Tgt Ion:128 Resp: 4349
 Ion Ratio Lower Upper
 128 100
 127 14.6 9.4 14.2#
 129 11.7 8.8 13.2

