

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030119\
 Data File : VF061813.D
 Acq On : 1 Mar 2019 20:16
 Operator : VA/AP
 Sample : K1675-23
 Misc : 5.95g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-3-12-A

Quant Time: Mar 02 02:47:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	296609	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	469130	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	379301	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	217097	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	97500	44.83	ug/l	-0.03
Spiked Amount				50.000		
Recovery						89.66%
35) Dibromofluoromethane	4.10	113	154250	44.28	ug/l	-0.02
Spiked Amount				50.000		
Recovery						88.56%
50) Toluene-d8	7.54	98	380165	37.96	ug/l	-0.02
Spiked Amount				50.000		
Recovery						75.92%
62) 4-Bromofluorobenzene	11.40	95	168745	41.64	ug/l	-0.02
Spiked Amount				50.000		
Recovery						83.28%

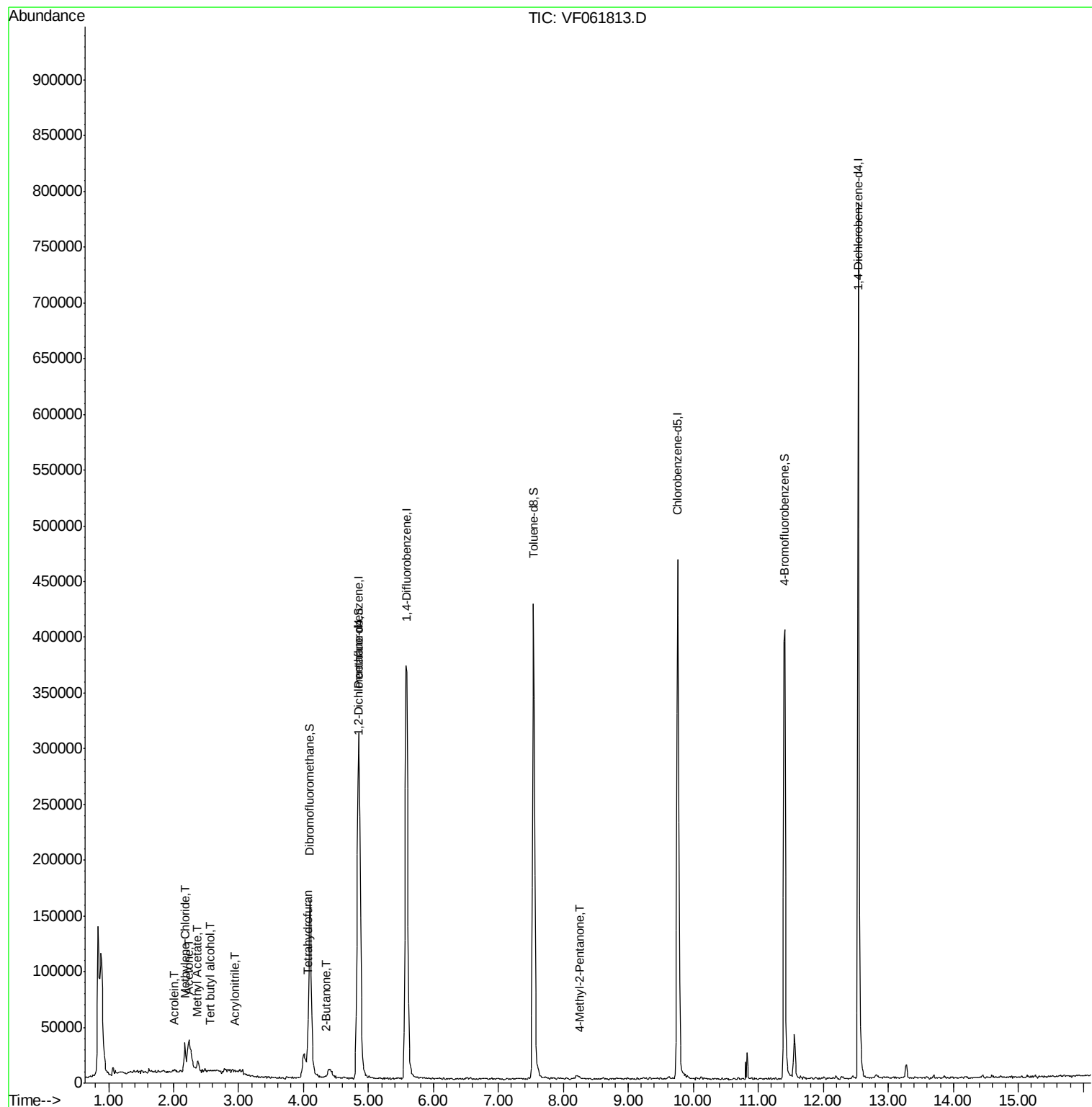
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	202	1.605	ug/l #	63
13) Acrolein	2.00	56	520	3.287	ug/l	90
15) Acrylonitrile	2.96	53	545	1.221	ug/l #	18
16) Acetone	2.24	43	12054	25.830	ug/l	100
18) Methyl Acetate	2.36	43	6473	6.157	ug/l #	59
20) Methylene Chloride	2.18	84	12592	2.648	ug/l #	89
25) 2-Butanone	4.35	43	1254	1.230	ug/l #	55
29) Tetrahydrofuran	4.06	42	1004	2.167	ug/l #	66
51) 4-Methyl-2-Pentanone	8.26	43	2002	1.097	ug/l #	58

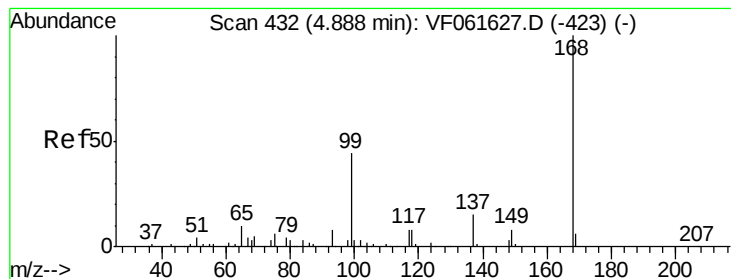
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

Instrument :

MSVOA_F

ClientSampleId :

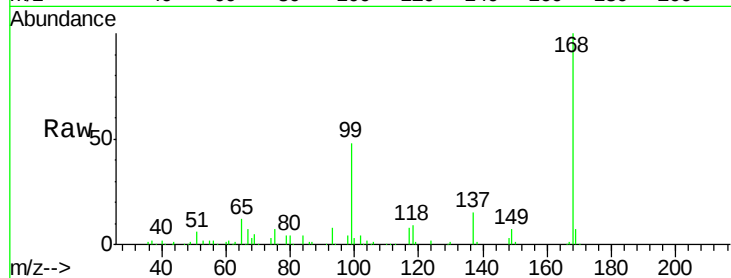
Z-3-12-A

Tot Ion:168 Resp: 296609

Ion Ratio Lower Upper

168 100

99 48.0 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

100000

80000

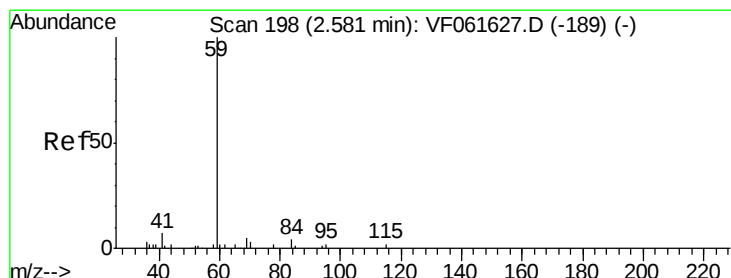
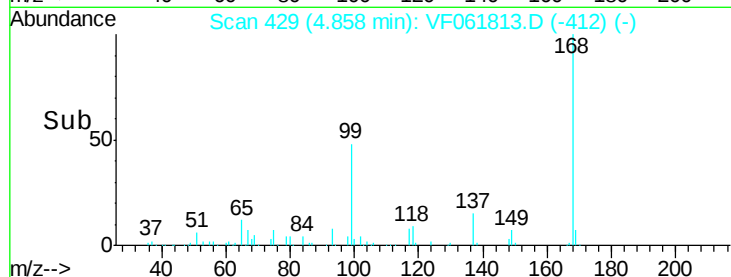
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.605 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF061813.D

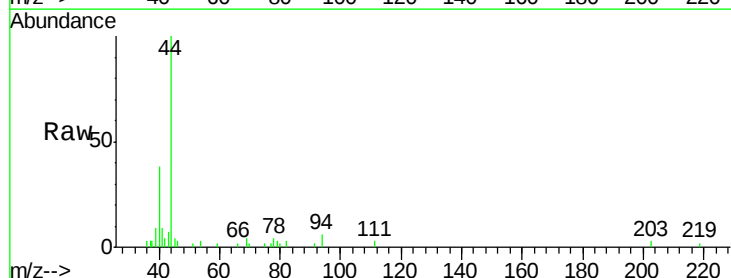
Acq: 1 Mar 2019 20:16

Tgt Ion: 59 Resp: 202

Ion Ratio Lower Upper

59 100

57 0.0 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

200

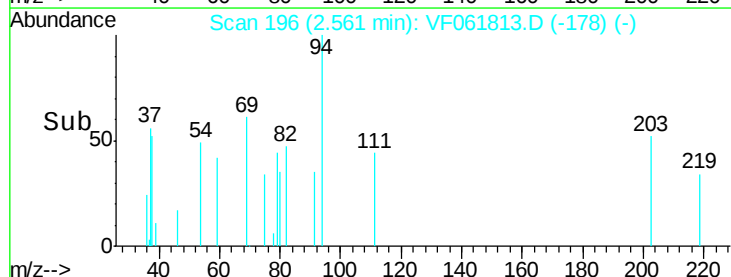
150

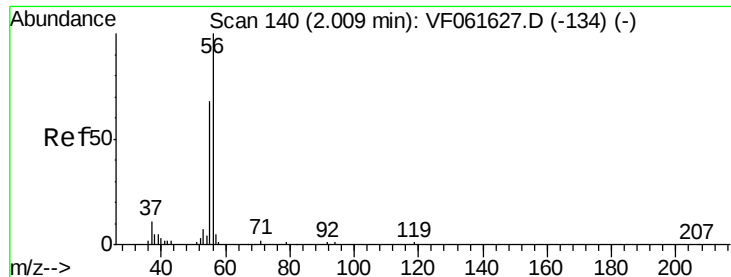
100

50

0

Time-->





#13

Acrolein

Concen: 3.287 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

Instrument :

MSVOA_F

ClientSampleId :

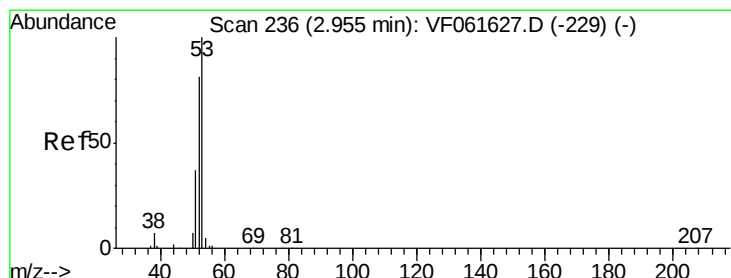
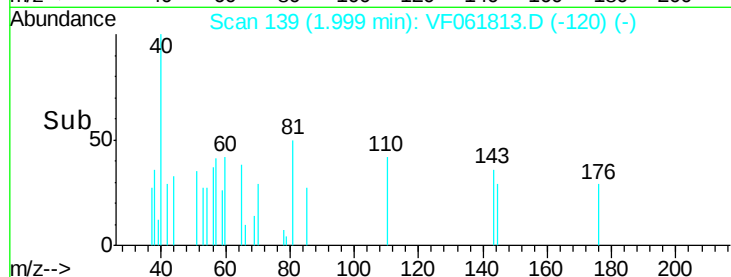
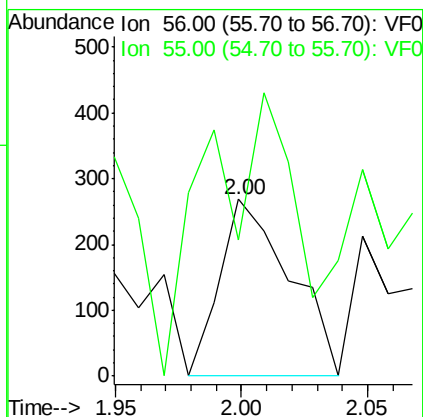
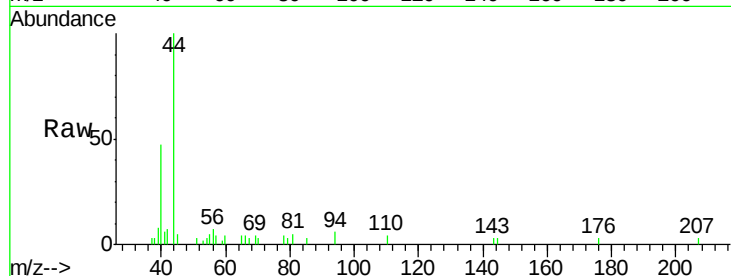
Z-3-12-A

Tot Ion: 56 Resp: 520

Ion Ratio Lower Upper

56 100

55 77.0 55.0 82.6



#15

Acrylonitrile

Concen: 1.221 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.00 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

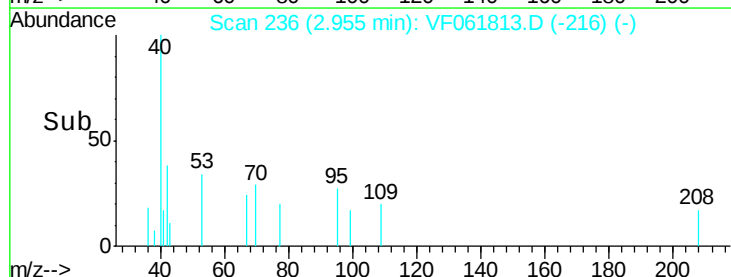
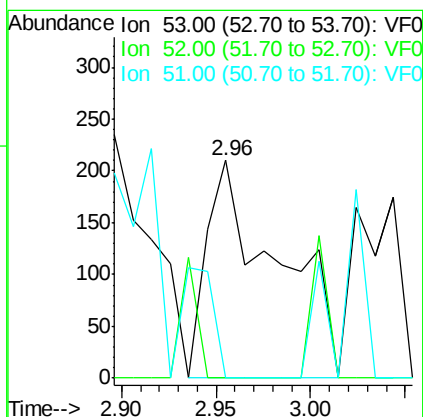
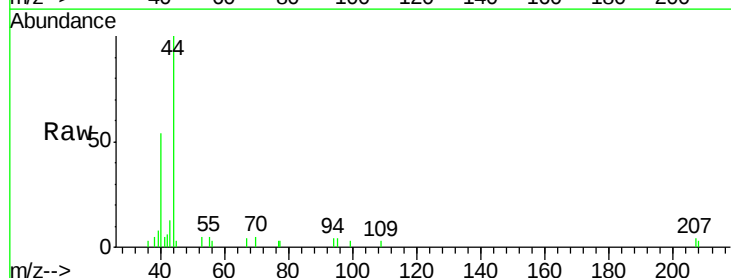
Tgt Ion: 53 Resp: 545

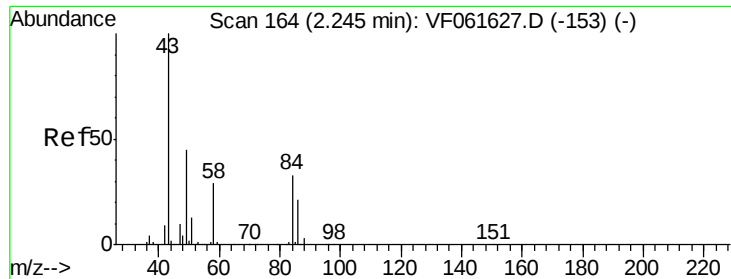
Ion Ratio Lower Upper

53 100

52 0.0 64.6 97.0#

51 0.0 29.8 44.8#

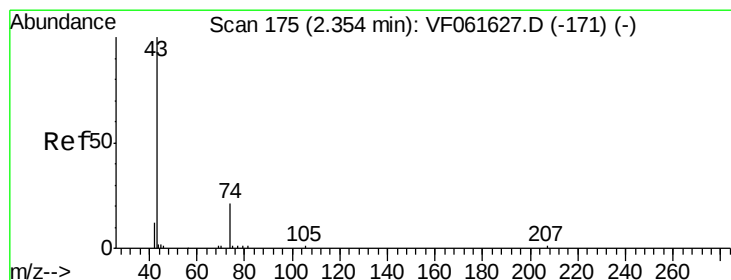
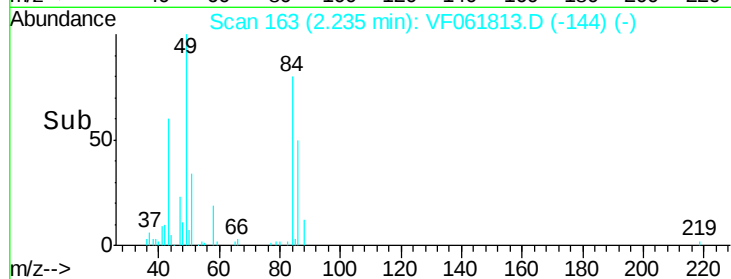
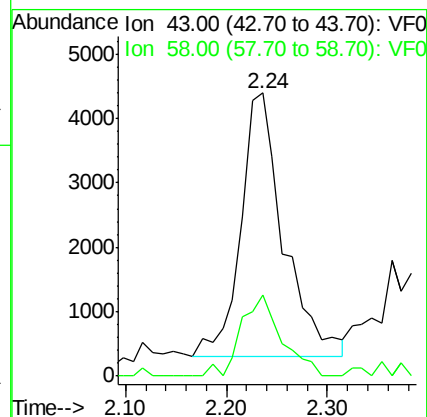
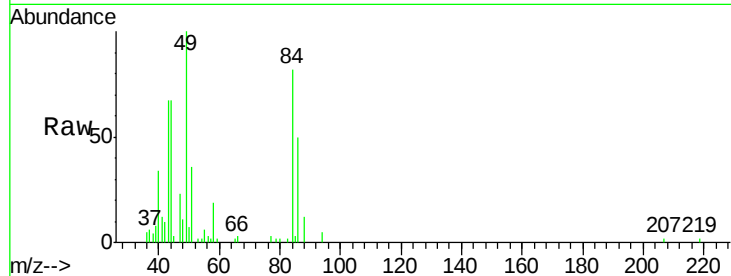




#16
Acetone
Concen: 25.830 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.01 min
Lab File: VF061813.D
Acq: 1 Mar 2019 20:16

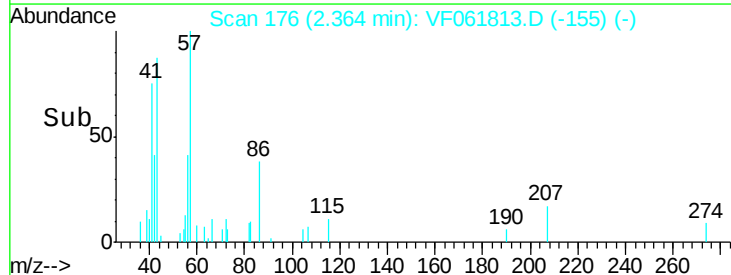
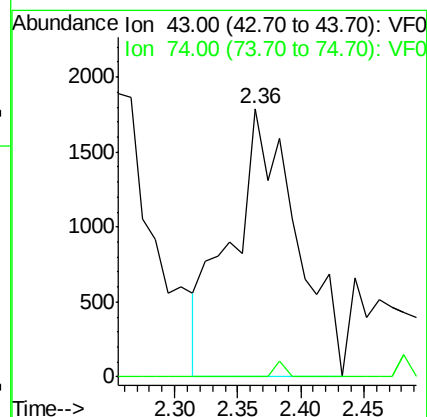
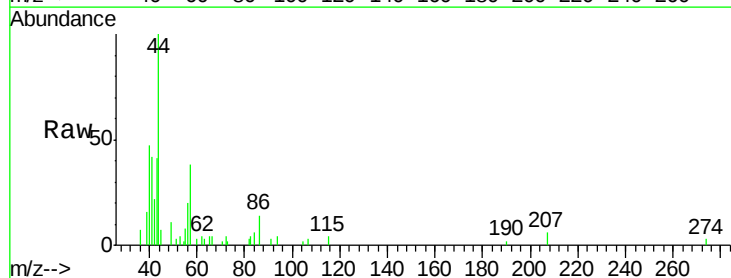
Instrument :
MSVOA_F
ClientSampleId :
Z-3-12-A

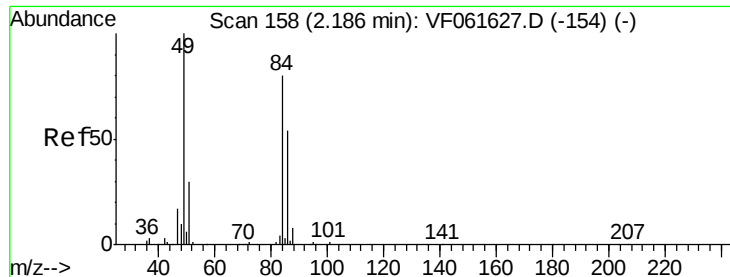
Tot Ion: 43 Resp: 12054
Ion Ratio Lower Upper
43 100
58 28.6 22.9 34.3



#18
Methyl Acetate
Concen: 6.157 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF061813.D
Acq: 1 Mar 2019 20:16

Tgt Ion: 43 Resp: 6473
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#





#20

Methylene Chloride

Concen: 2.648 ug/l

RT: 2.18 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

Instrument :

MSVOA_F

ClientSampleId :

Z-3-12-A

Tot Ion: 84 Resp: 12592

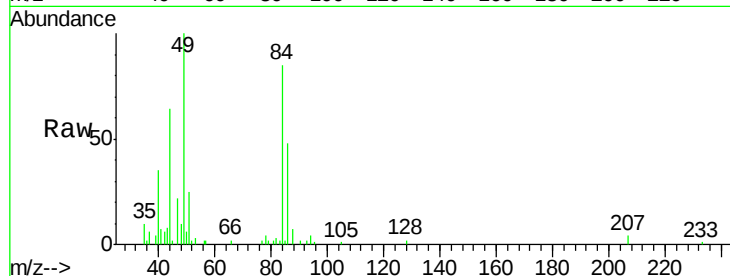
Ion Ratio Lower Upper

84 100

49 117.7 101.8 152.8

51 29.3 31.1 46.7#

86 56.9 54.4 81.6

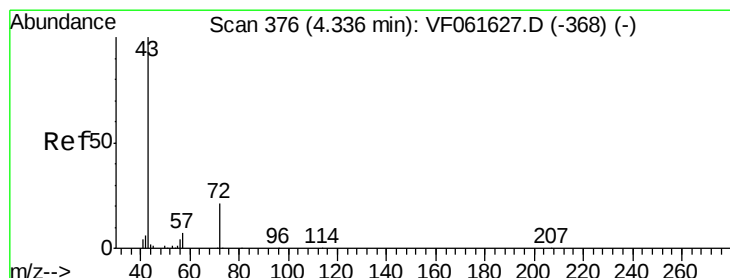
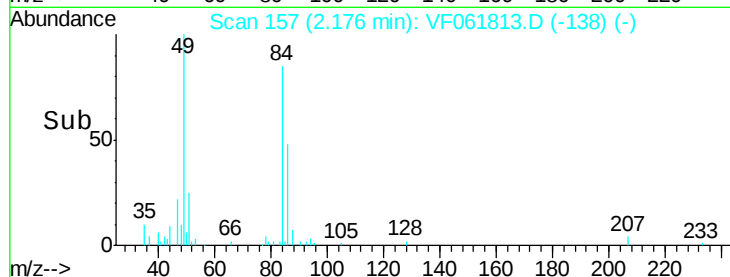
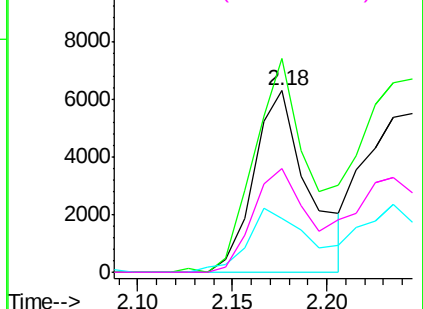


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 1.230 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061813.D

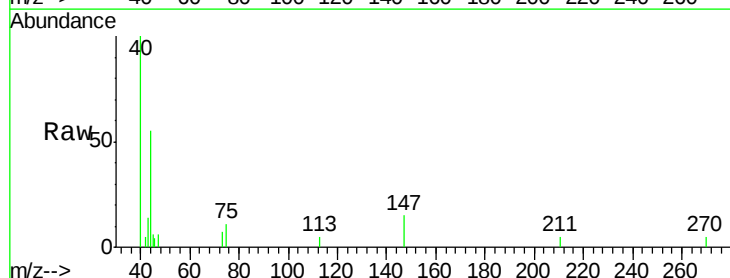
Acq: 1 Mar 2019 20:16

Tgt Ion: 43 Resp: 1254

Ion Ratio Lower Upper

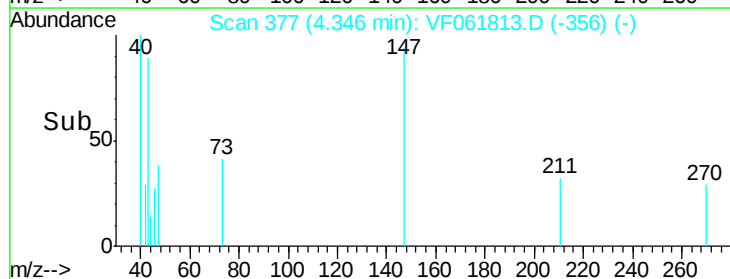
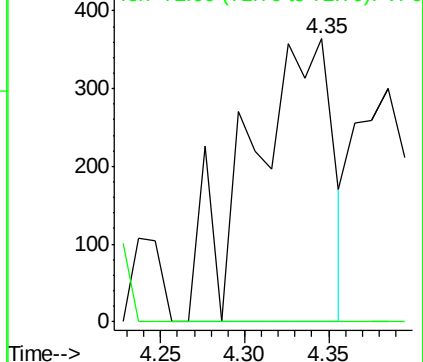
43 100

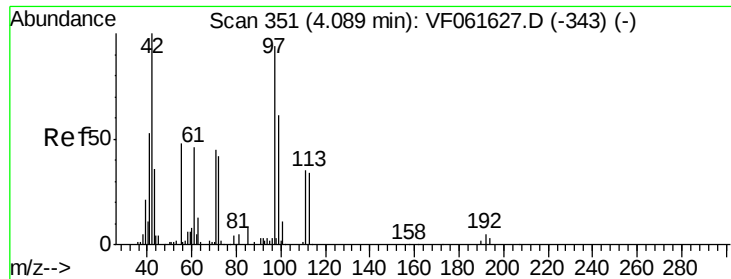
72 0.0 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.167 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.03 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

Instrument :

MSVOA_F

ClientSampleId :

Z-3-12-A

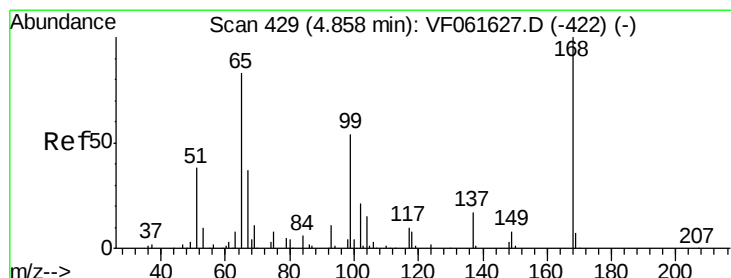
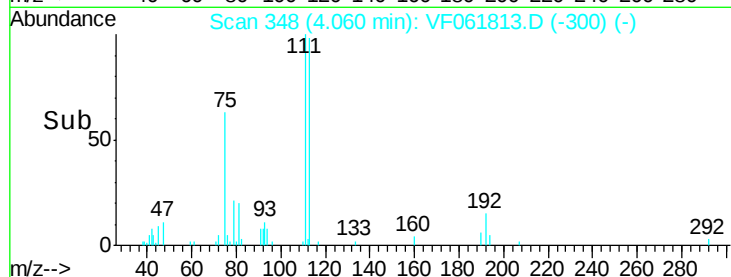
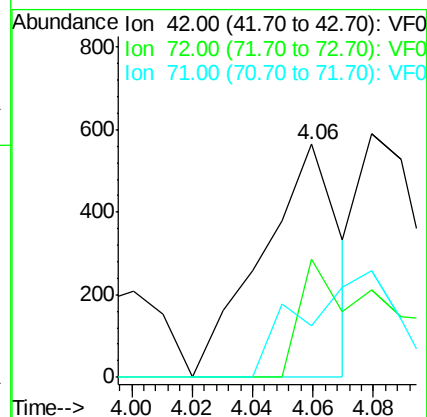
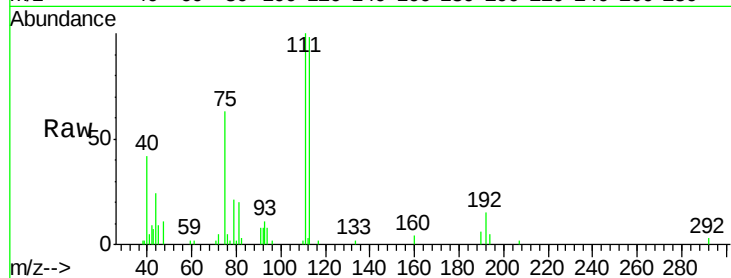
Tot Ion: 42 Resp: 1004

Ion Ratio Lower Upper

42 100

72 73.5 35.2 52.8#

71 54.2 32.9 49.3#



#33

1,2-Dichloroethane-d4

Concen: 44.826 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.03 min

Lab File: VF061813.D

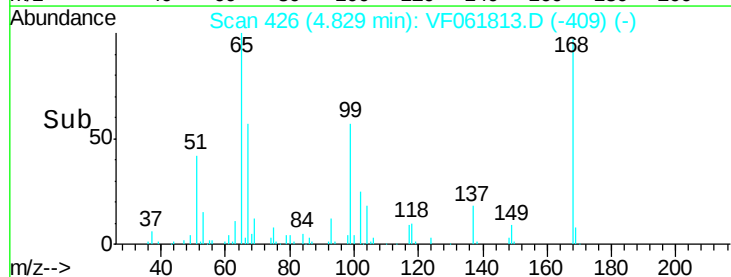
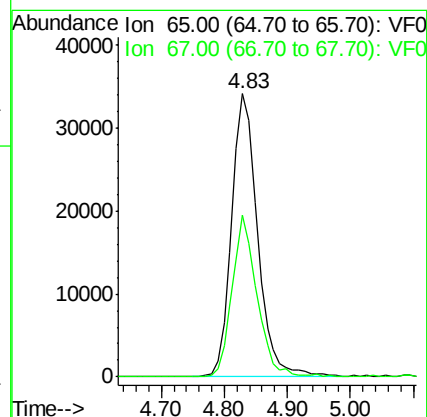
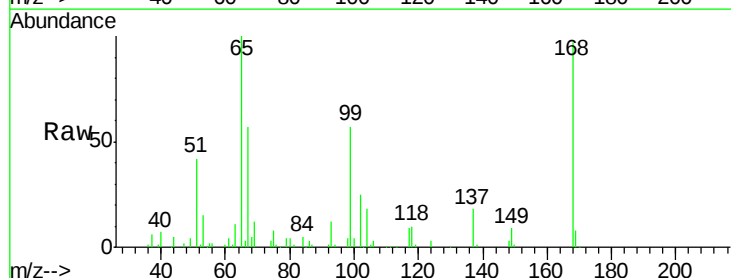
Acq: 1 Mar 2019 20:16

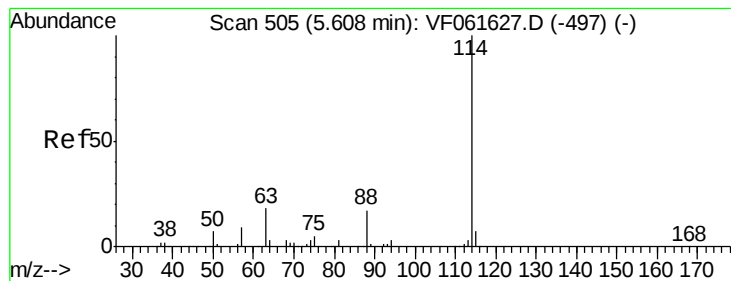
Tgt Ion: 65 Resp: 97500

Ion Ratio Lower Upper

65 100

67 57.3 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.03 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

Instrument :

MSVOA_F

ClientSampleId :

Z-3-12-A

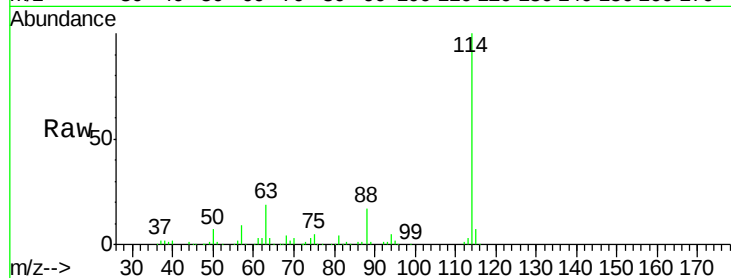
Tot Ion:114 Resp: 469130

Ion Ratio Lower Upper

114 100

63 18.8 0.0 36.6

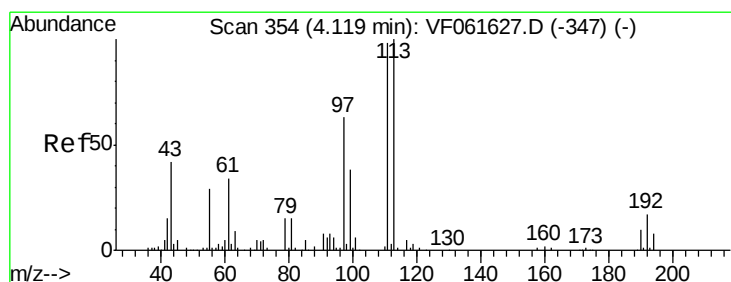
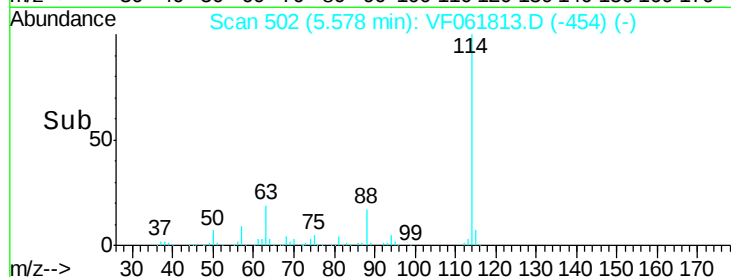
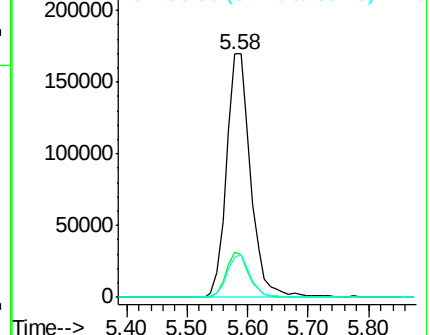
88 16.7 0.0 34.4



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: 44.276 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

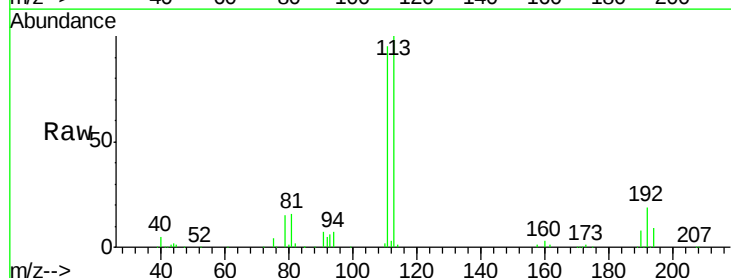
Tgt Ion:113 Resp: 154250

Ion Ratio Lower Upper

113 100

111 95.0 78.8 118.2

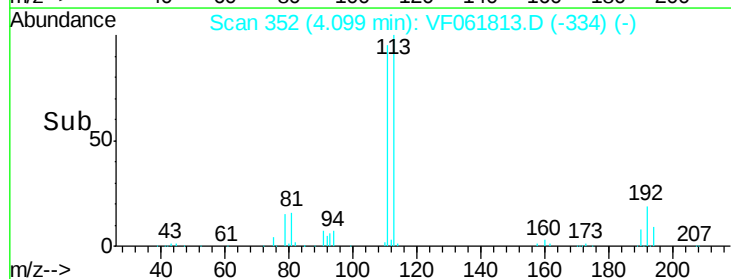
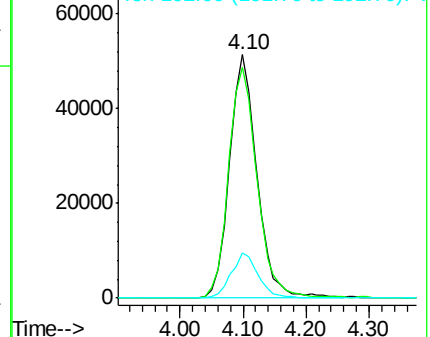
192 18.7 13.4 20.0

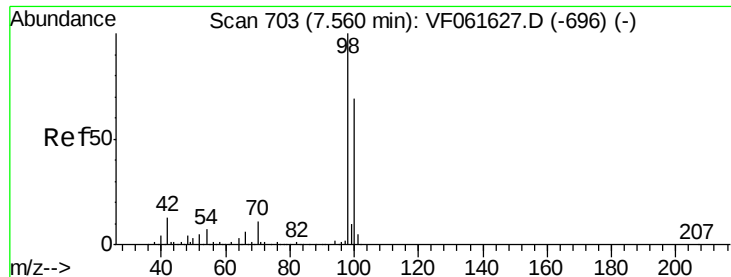


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 37.960 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

Instrument :

MSVOA_F

ClientSampleId :

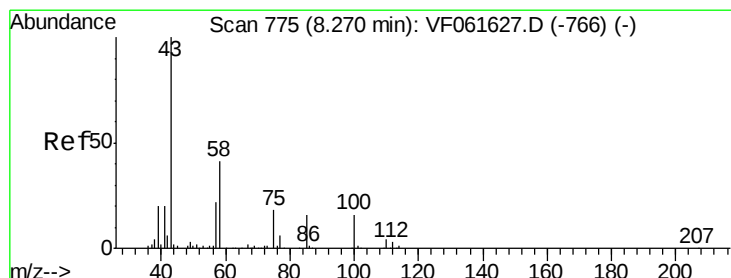
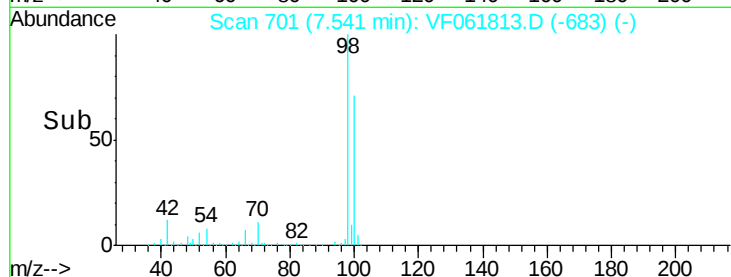
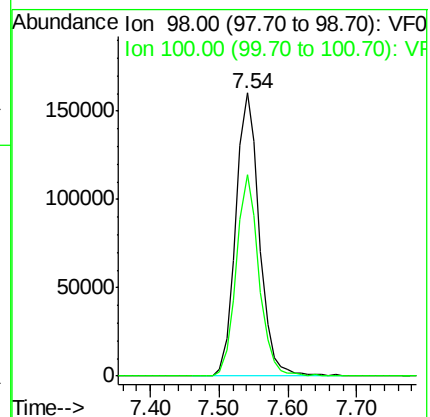
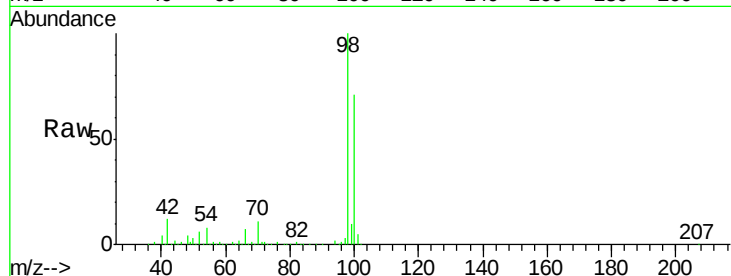
Z-3-12-A

Tot Ion: 98 Resp: 380165

Ion Ratio Lower Upper

98 100

100 71.1 55.4 83.2



#51

4-Methyl-2-Pentanone

Concen: 1.097 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061813.D

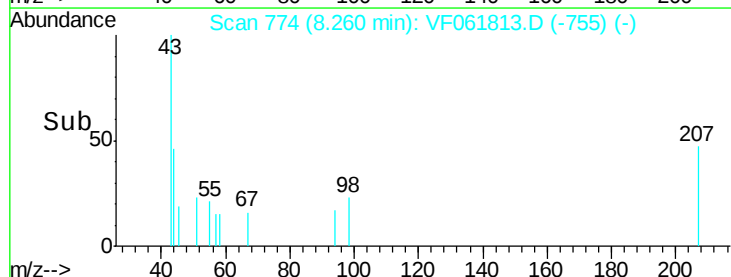
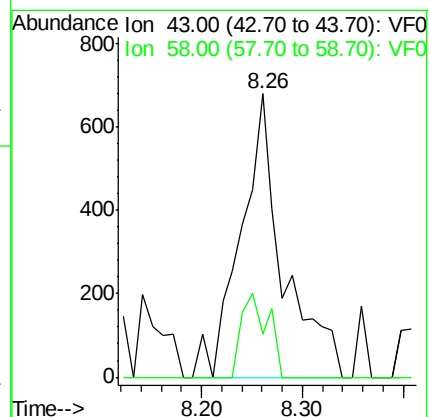
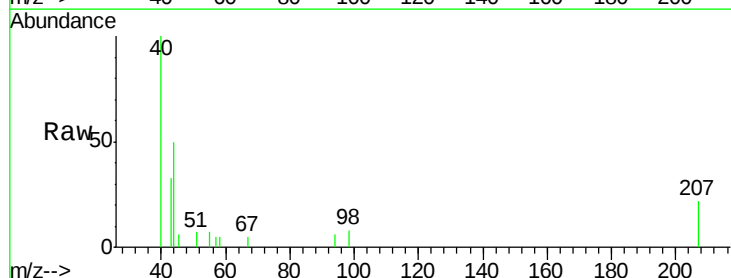
Acq: 1 Mar 2019 20:16

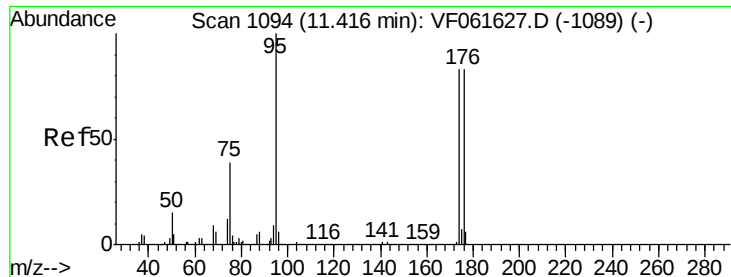
Tgt Ion: 43 Resp: 2002

Ion Ratio Lower Upper

43 100

58 15.0 33.1 49.7#





#62

4-Bromofluorobenzene

Concen: 41.643 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

Instrument :

MSVOA_F

ClientSampleId :

Z-3-12-A

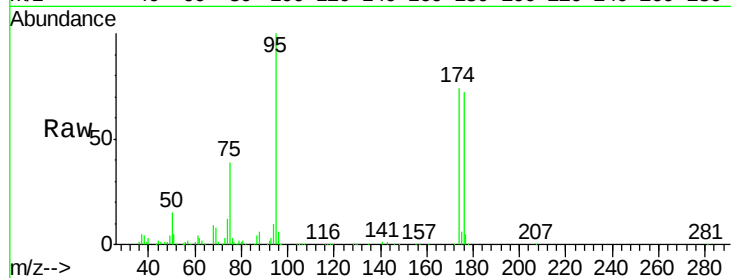
Tot Ion: 95 Resp: 168745

Ion Ratio Lower Upper

95 100

174 73.8 0.0 165.8

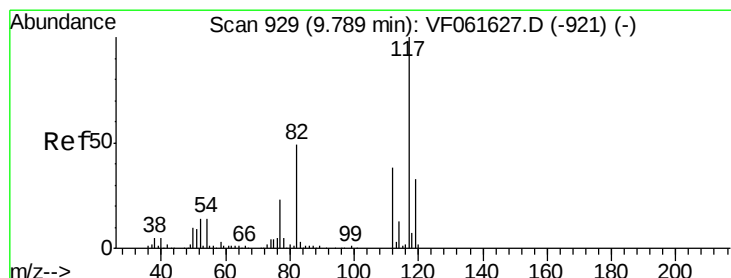
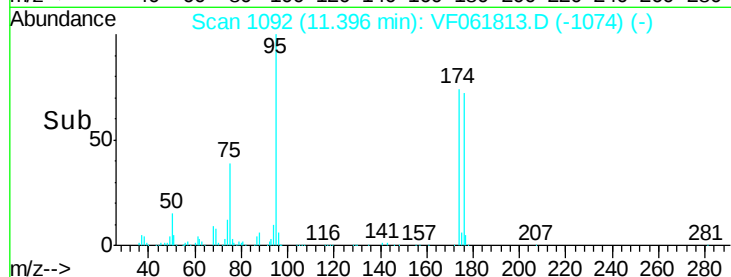
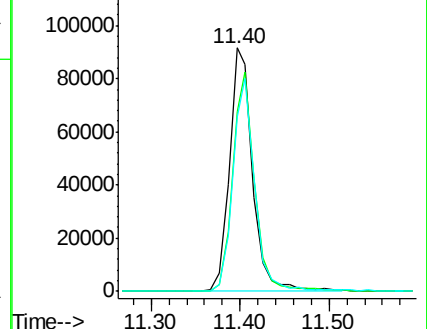
176 71.7 0.0 167.0



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: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.03 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

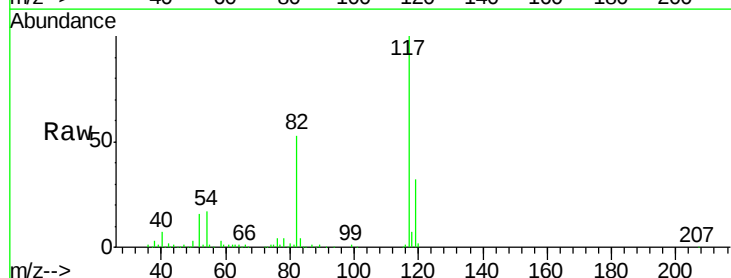
Tgt Ion: 117 Resp: 379301

Ion Ratio Lower Upper

117 100

82 53.2 39.3 58.9

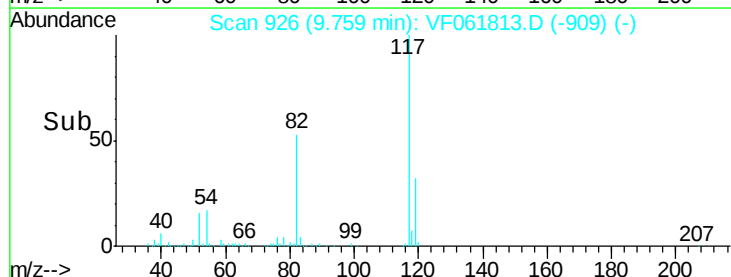
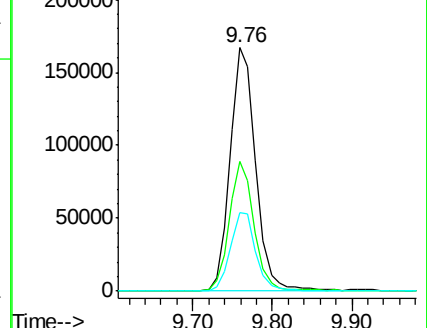
119 32.4 26.6 40.0

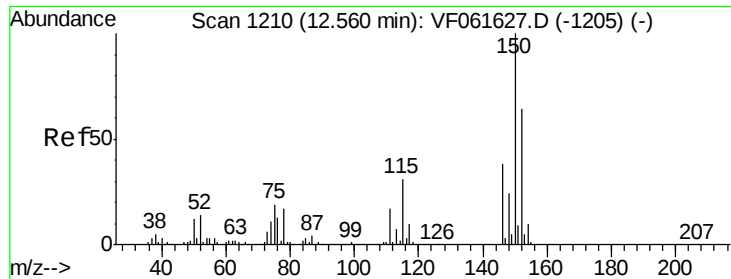


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061813.D

Acq: 1 Mar 2019 20:16

Instrument :

MSVOA_F

ClientSampleId :

Z-3-12-A

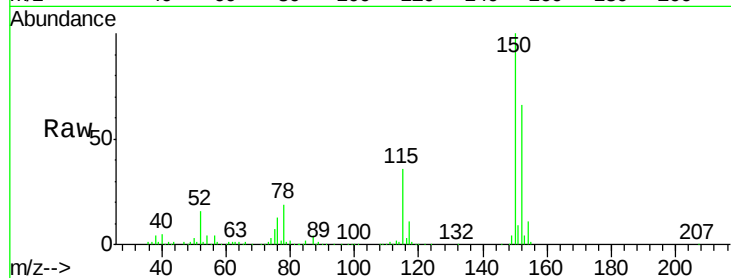
Tot Ion:152 Resp: 217097

Ion Ratio Lower Upper

152 100

115 53.9 24.3 72.8

150 151.5 0.0 312.0



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

