

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011619\
 Data File : VF061418.D
 Acq On : 16 Jan 2019 18:15
 Operator : VA/AP
 Sample : K1156-02RE
 Misc : 5.02g/5mL/MSVOA-F/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VOC-9RE

Quant Time: Jan 17 02:55:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	215778	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	405036	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	321240	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	130554	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	121931	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	
35) Dibromofluoromethane	4.11	113	143847	45.01	ug/l	0.00
Spiked Amount			Recovery	=	90.02%	
50) Toluene-d8	7.55	98	359481	41.05	ug/l	0.00
Spiked Amount			Recovery	=	82.10%	
62) 4-Bromofluorobenzene	11.41	95	151221	36.96	ug/l	0.00
Spiked Amount			Recovery	=	73.92%	

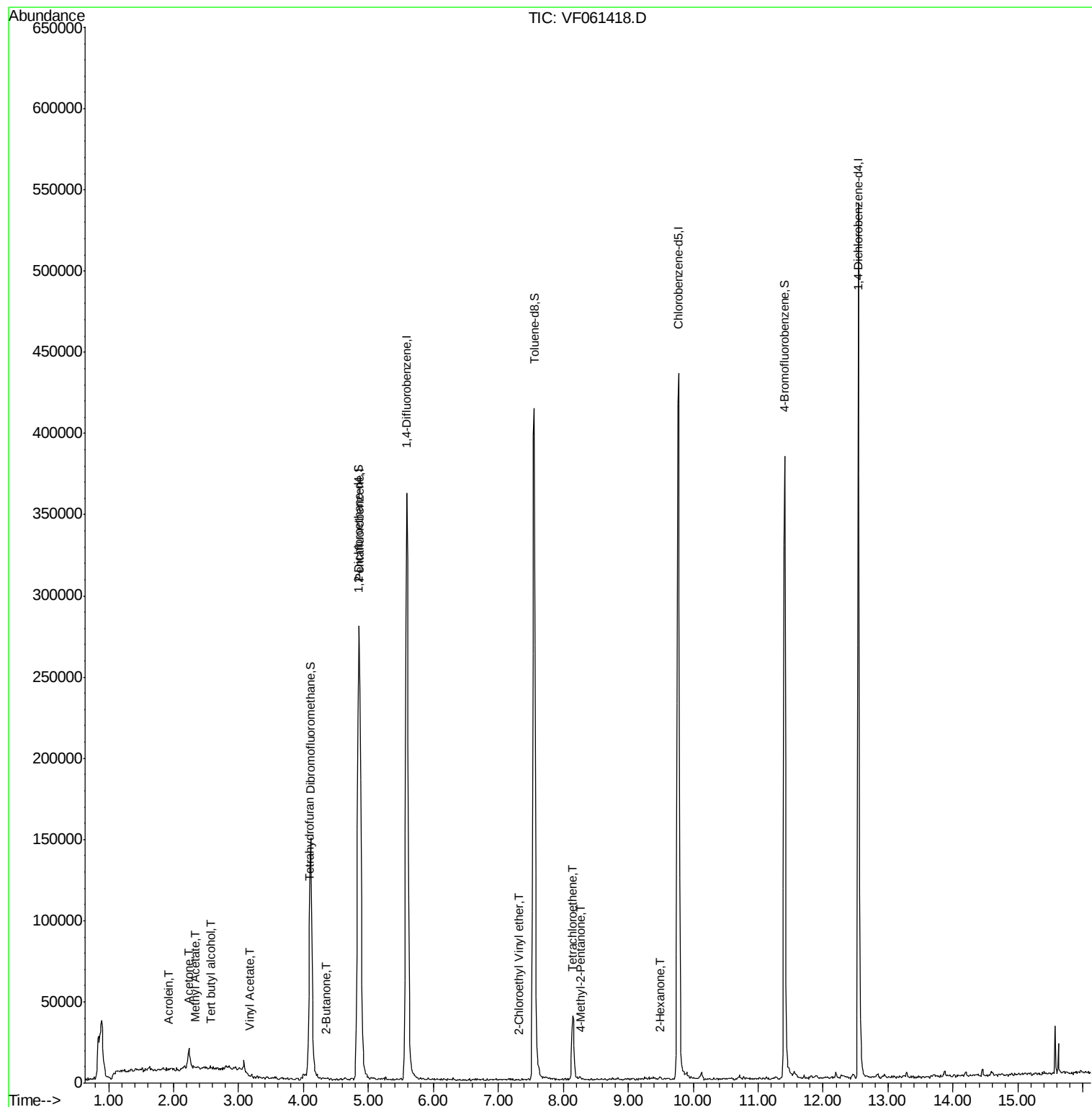
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	675	5.986	ug/l #	64
13) Acrolein	1.92	56	326	13.555	ug/l	90
14) Allyl chloride	2.11	41	619	Below Cal	#	71
16) Acetone	2.24	43	19671	36.807	ug/l	96
18) Methyl Acetate	2.33	43	1229	1.160	ug/l #	61
20) Methylene Chloride	2.18	84	695	Below Cal	#	61
23) Vinyl Acetate	3.18	43	1149	3.571	ug/l #	78
25) 2-Butanone	4.35	43	1142	1.285	ug/l #	57
29) Tetrahydrofuran	4.08	42	1530	3.998	ug/l #	62
51) 4-Methyl-2-Pentanone	8.25	43	2251	1.300	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.31	63	66	27.764	ug/l #	47
59) 2-Hexanone	9.50	43	1578	1.307	ug/l	84
64) Tetrachloroethene	8.14	164	12035	4.982	ug/l	94

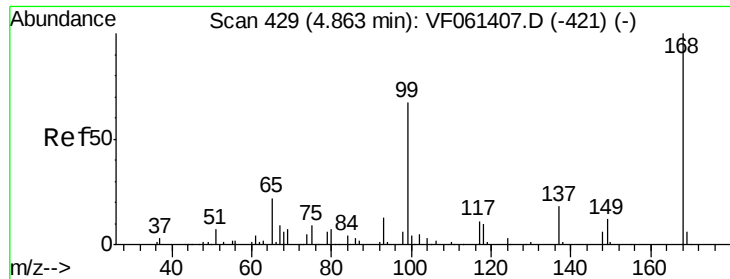
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011619\
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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

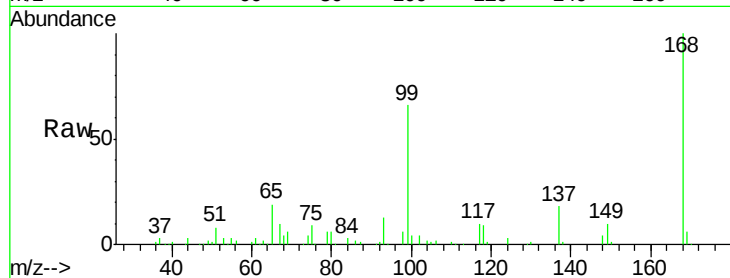
VOC-9RE

Tot Ion:168 Resp: 215778

Ion Ratio Lower Upper

168 100

99 65.9 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

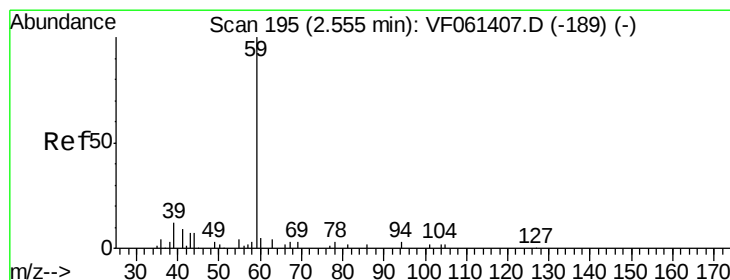
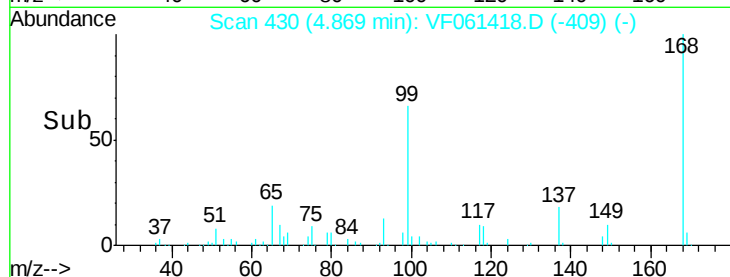
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 5.986 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.03 min

Lab File: VF061418.D

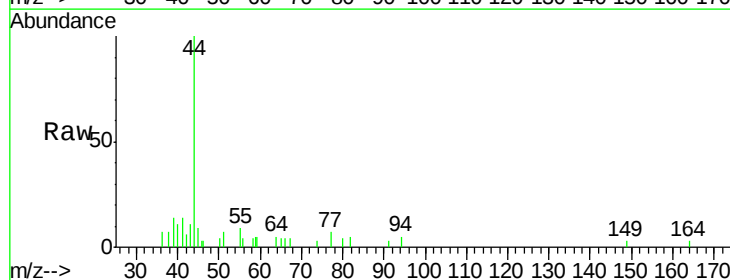
Acq: 16 Jan 2019 18:15

Tgt Ion: 59 Resp: 675

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

400

300

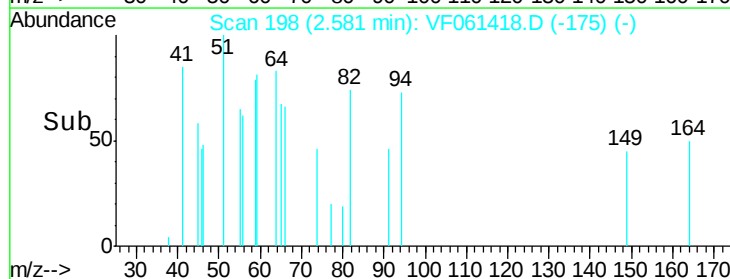
200

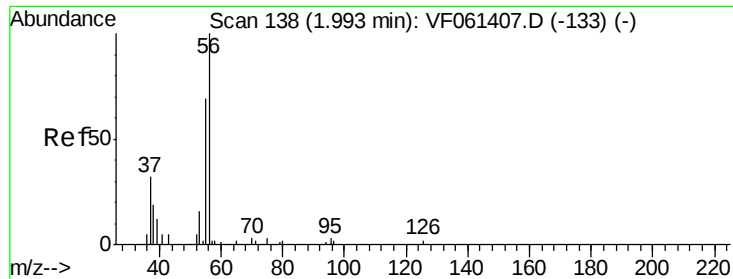
100

0

Time-->

2.50 2.55 2.60





#13

Acrolein

Concen: 13.555 ug/l

RT: 1.92 min Scan# 131

Delta R.T. -0.07 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

Instrument :

MSVOA_F

ClientSampled :

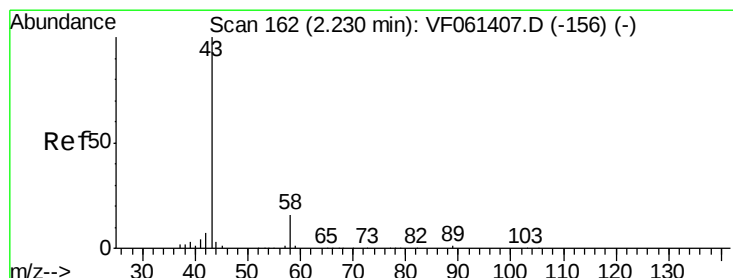
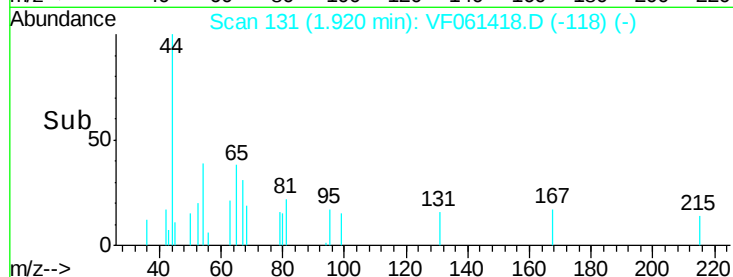
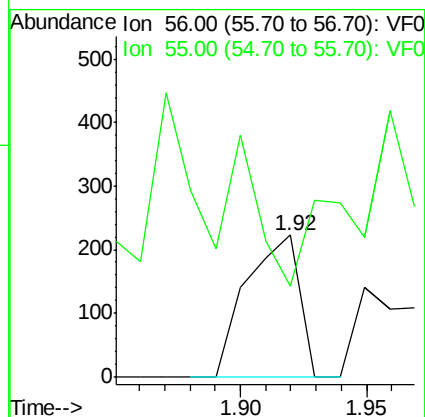
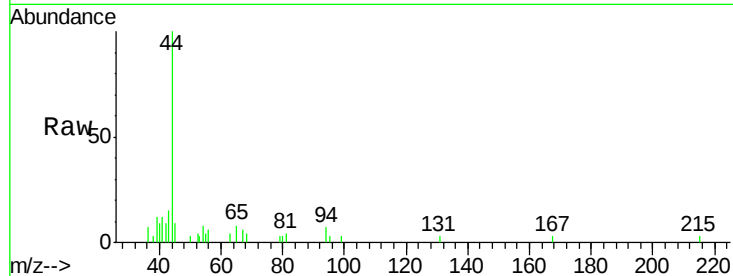
VOC-9RE

Tot Ion: 56 Resp: 326

Ion Ratio Lower Upper

56 100

55 63.7 57.5 86.3



#16

Acetone

Concen: 36.807 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061418.D

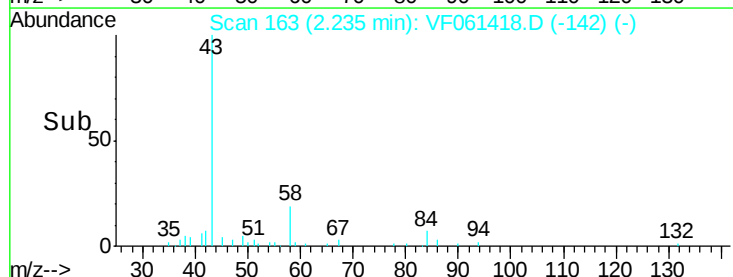
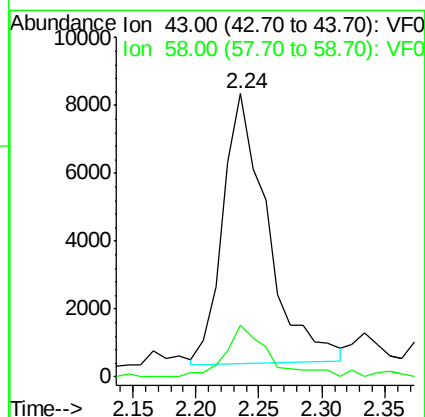
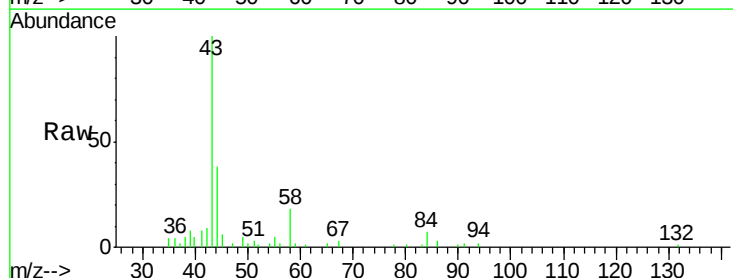
Acq: 16 Jan 2019 18:15

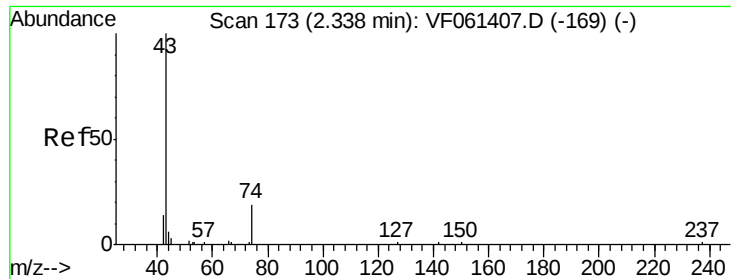
Tgt Ion: 43 Resp: 19671

Ion Ratio Lower Upper

43 100

58 18.4 13.3 19.9

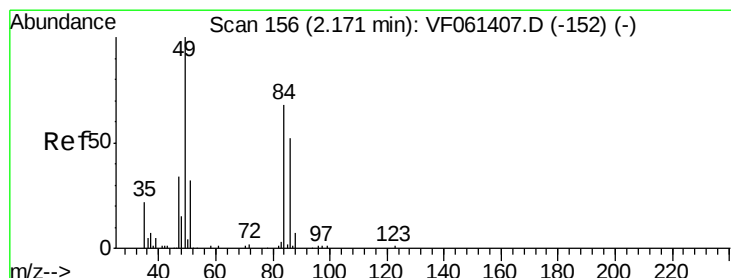
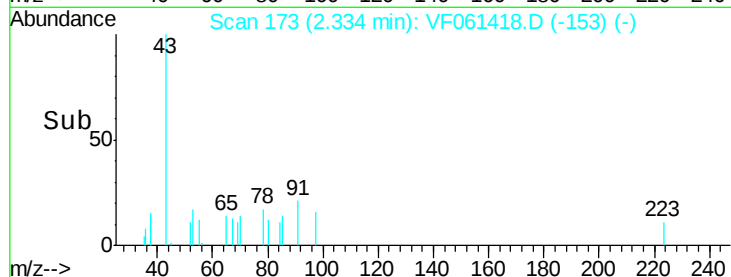
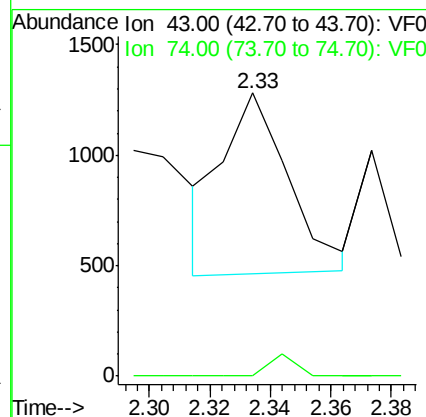
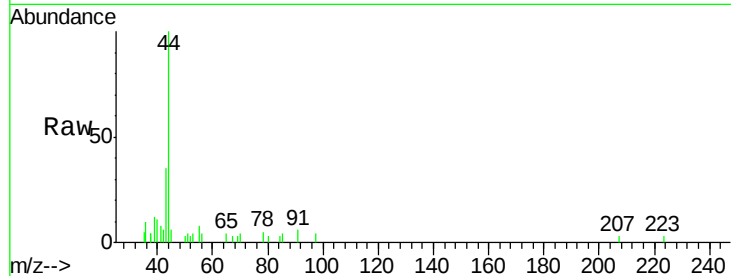




#18
Methyl Acetate
Concen: 1.160 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF061418.D
Acq: 16 Jan 2019 18:15

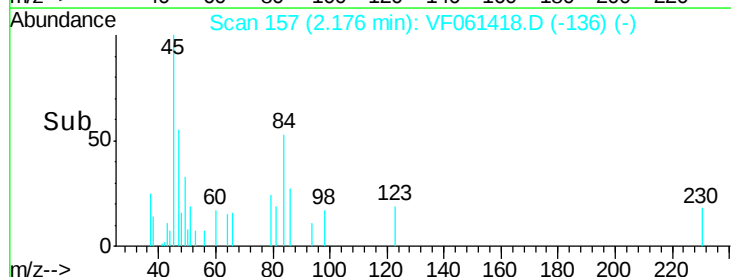
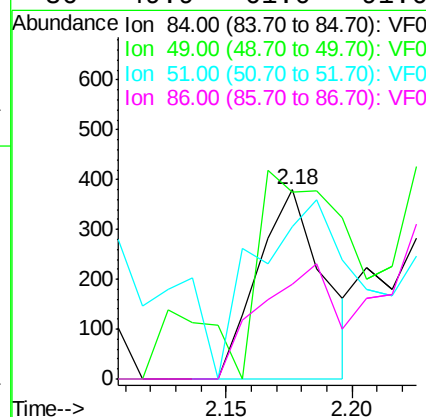
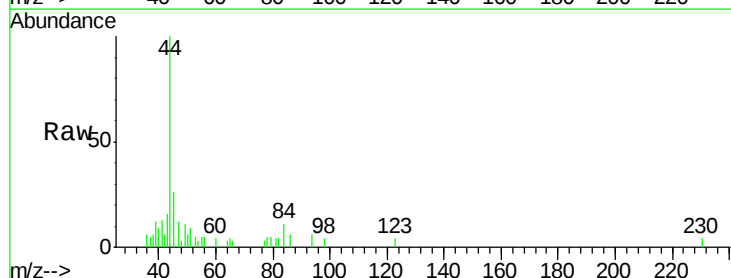
Instrument :
MSVOA_F
ClientSampleId :
VOC-9RE

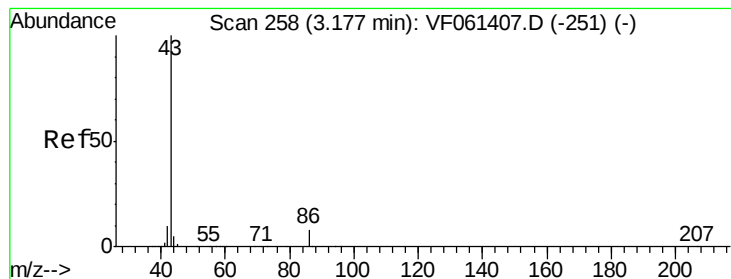
Tot Ion: 43 Resp: 1229
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061418.D
Acq: 16 Jan 2019 18:15

Tgt Ion: 84 Resp: 695
Ion Ratio Lower Upper
84 100
49 98.7 120.0 180.0#
51 81.0 38.6 58.0#
86 49.9 61.0 91.6#





#23

Vinyl Acetate

Concen: 3.571 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

Instrument :

MSVOA_F

ClientSampled :

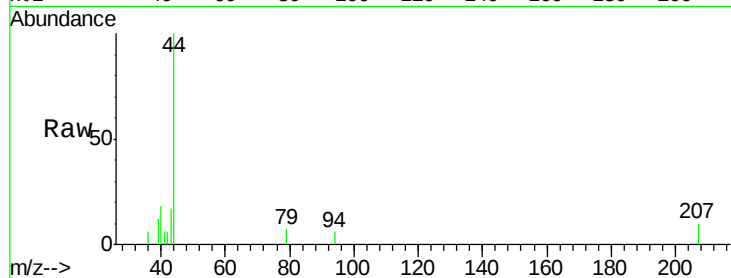
VOC-9RE

Tot Ion: 43 Resp: 1149

Ion Ratio Lower Upper

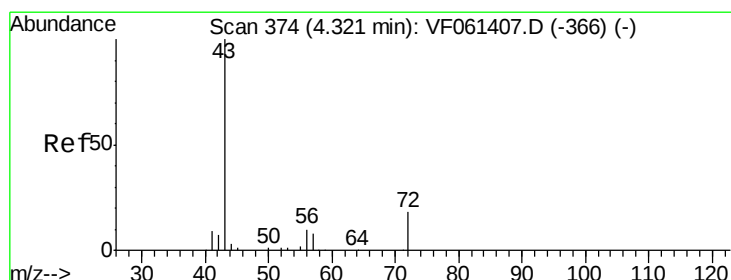
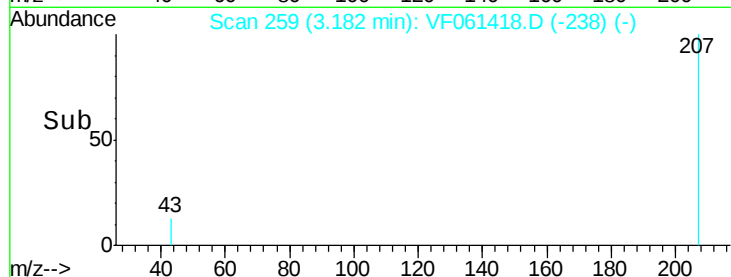
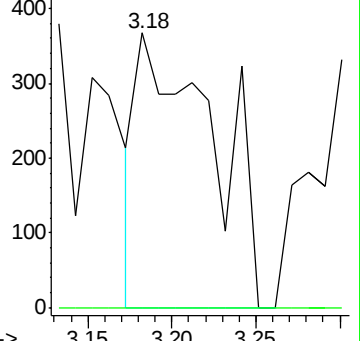
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 1.285 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.03 min

Lab File: VF061418.D

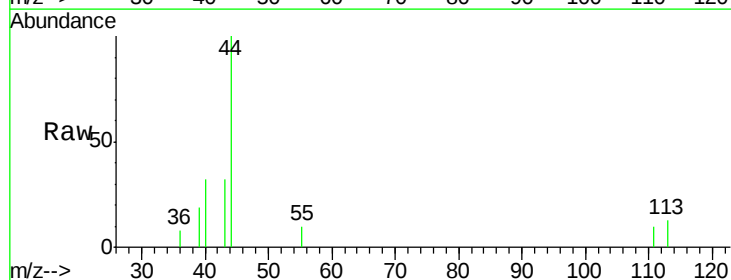
Acq: 16 Jan 2019 18:15

Tgt Ion: 43 Resp: 1142

Ion Ratio Lower Upper

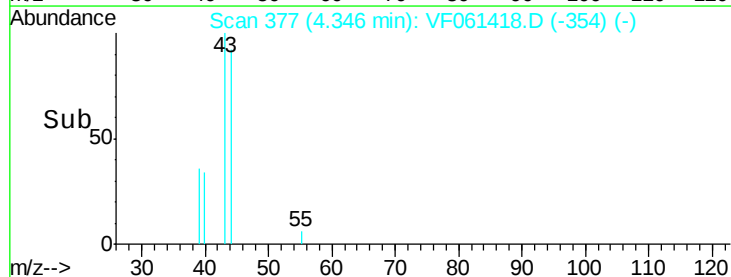
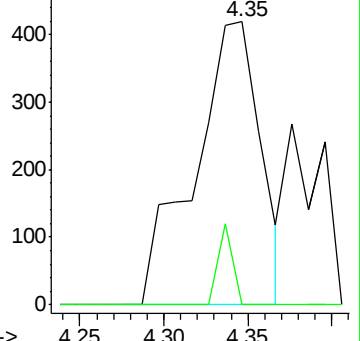
43 100

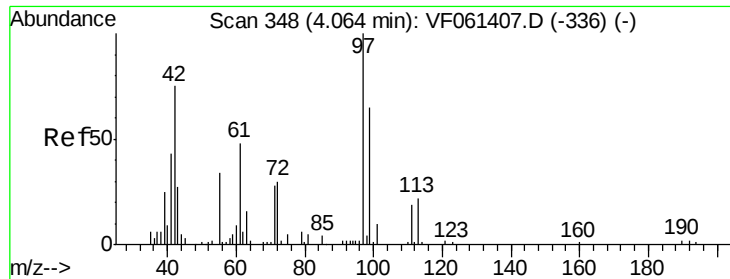
72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.998 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.02 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

VOC-9RE

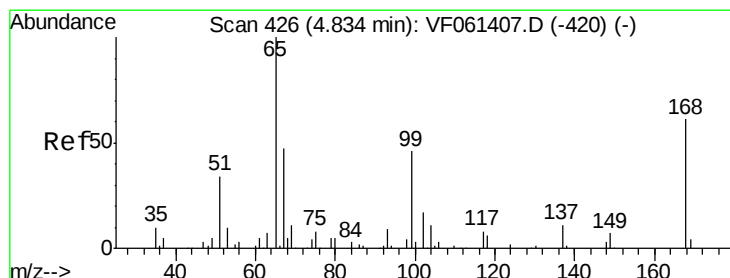
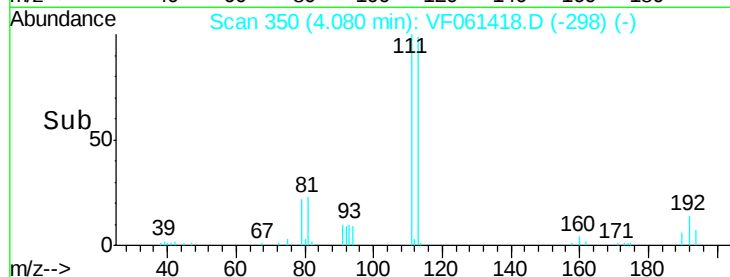
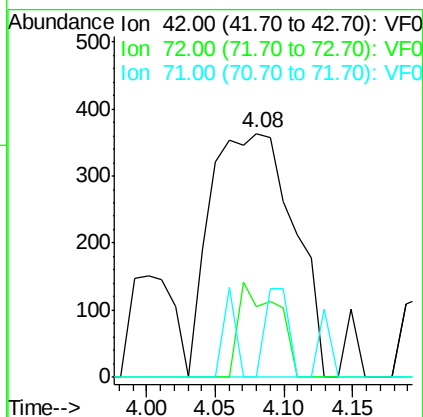
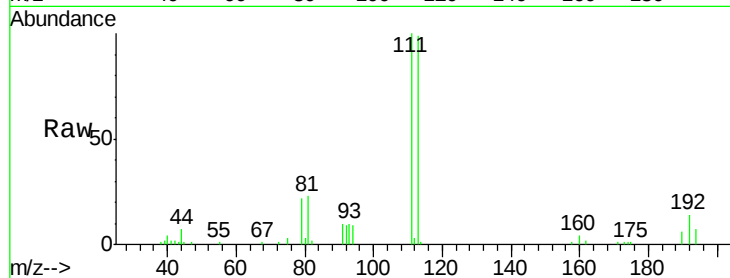
Tot Ion: 42 Resp: 1530

Ion Ratio Lower Upper

42 100

72 17.9 28.9 43.3#

71 10.2 29.6 44.4#



#33

1,2-Dichloroethane-d4

Concen: 45.769 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061418.D

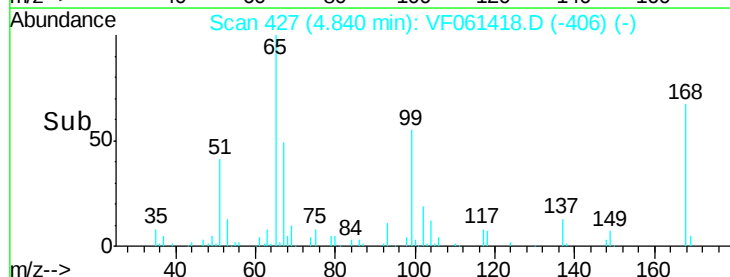
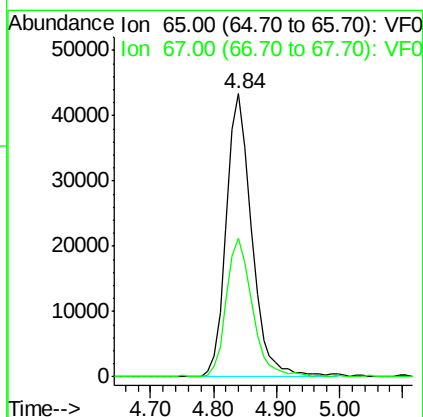
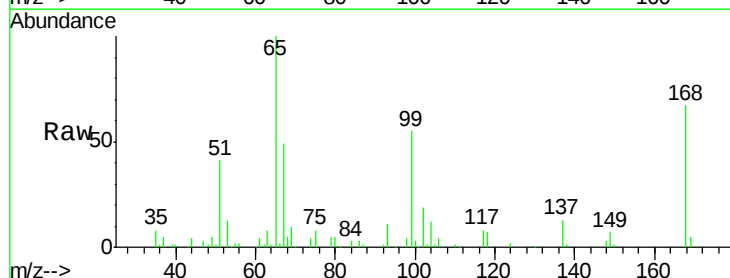
Acq: 16 Jan 2019 18:15

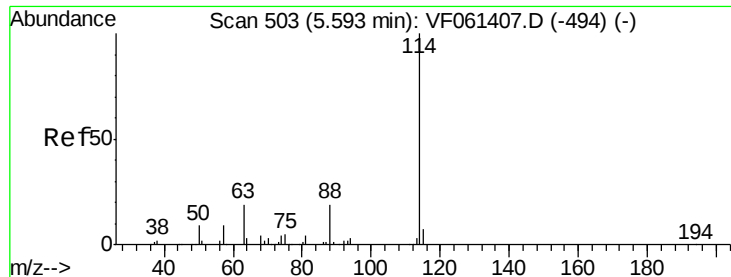
Tgt Ion: 65 Resp: 121931

Ion Ratio Lower Upper

65 100

67 49.0 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

VOC-9RE

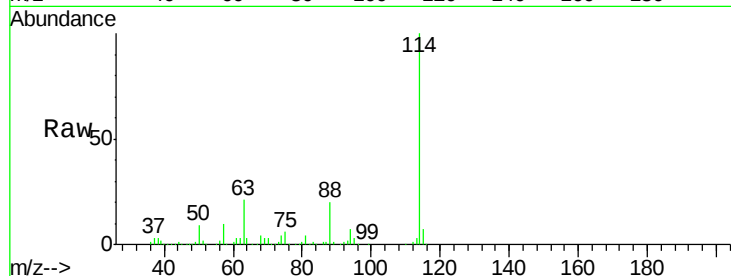
Tot Ion:114 Resp: 405036

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.0

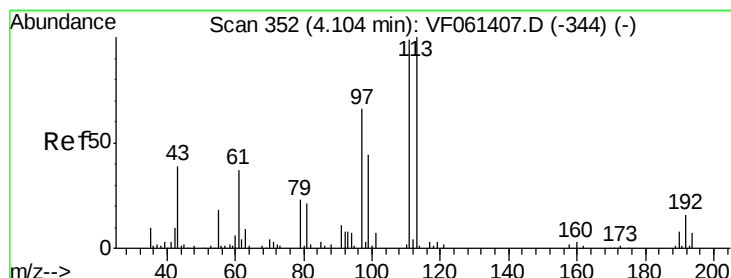
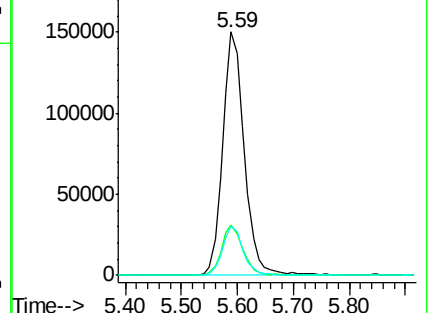
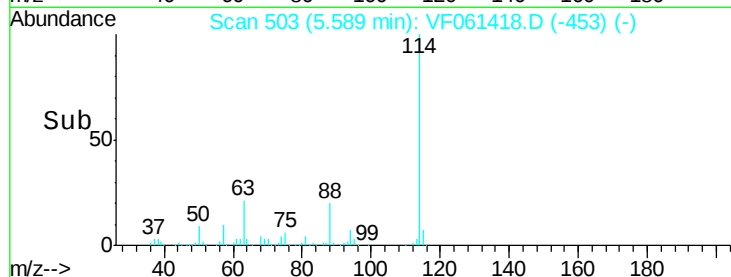
88 20.1 0.0 37.4



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: 45.007 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

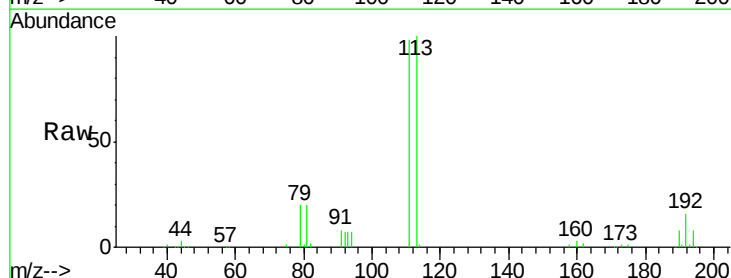
Tgt Ion:113 Resp: 143847

Ion Ratio Lower Upper

113 100

111 97.7 79.4 119.0

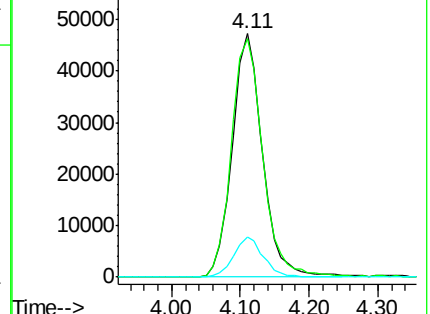
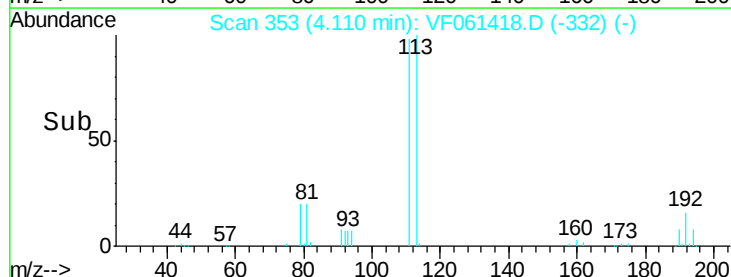
192 16.2 12.4 18.6

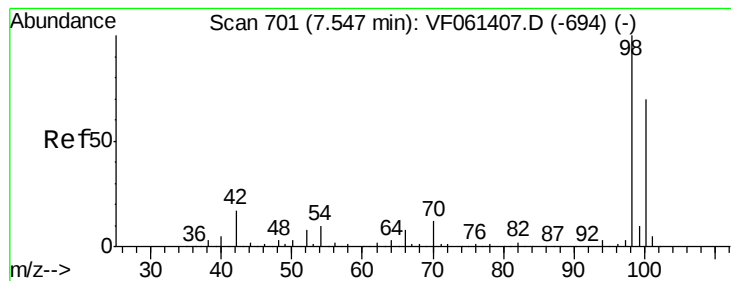


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 41.052 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

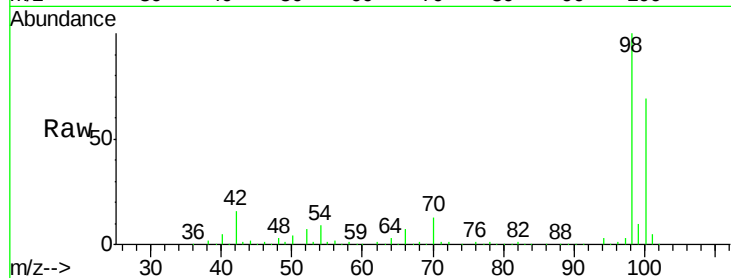
VOC-9RE

Tot Ion: 98 Resp: 359481

Ion Ratio Lower Upper

98 100

100 68.9 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.55

150000

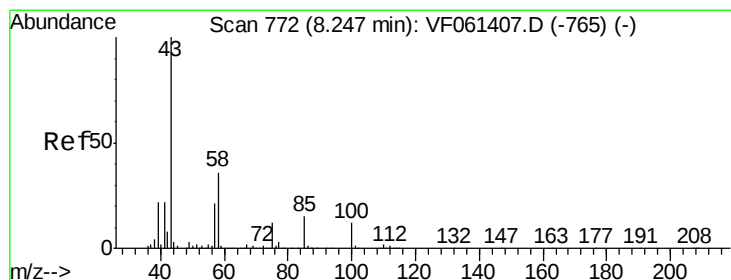
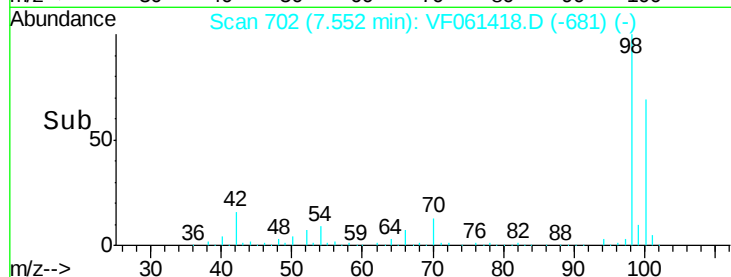
100000

50000

0

Time-->

7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 1.300 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061418.D

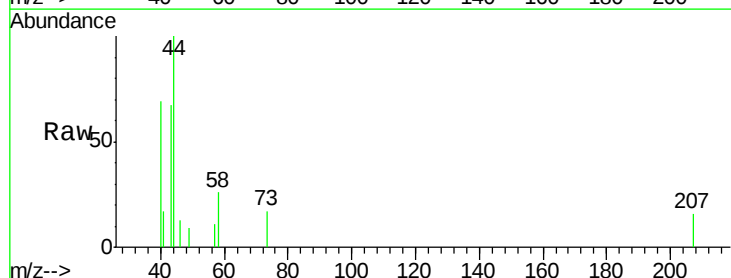
Acq: 16 Jan 2019 18:15

Tgt Ion: 43 Resp: 2251

Ion Ratio Lower Upper

43 100

58 39.4 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

800

600

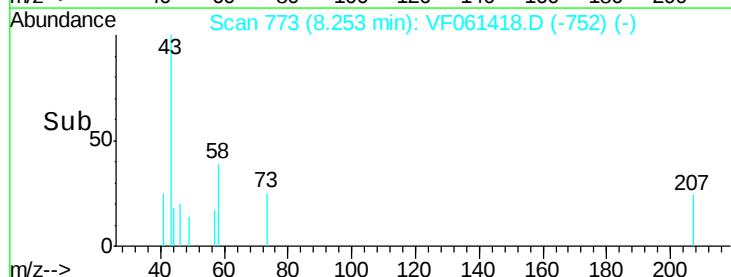
400

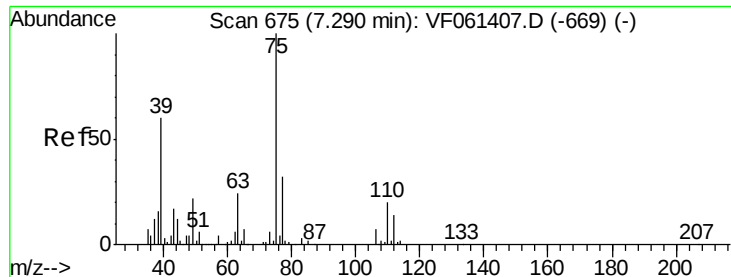
200

0

Time-->

8.15 8.20 8.25 8.30 8.35





#58

2-Chloroethyl Vinyl ether

Concen: 27.764 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.02 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

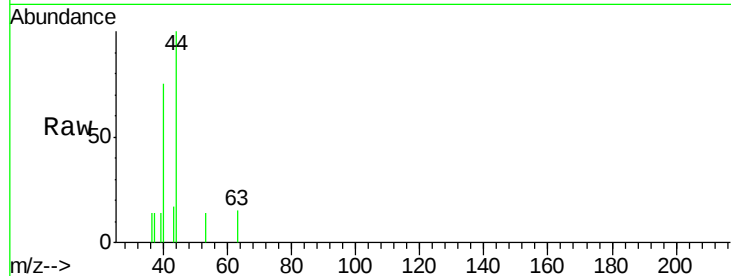
VOC-9RE

Tot Ion: 63 Resp: 66

Ion Ratio Lower Upper

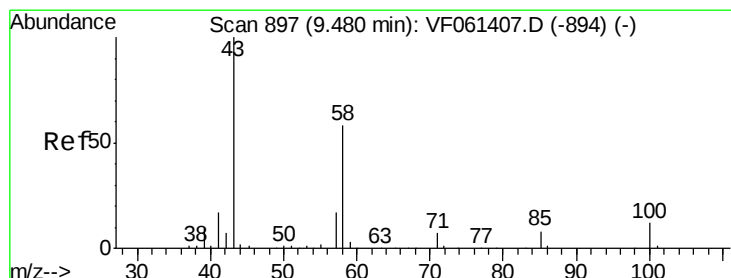
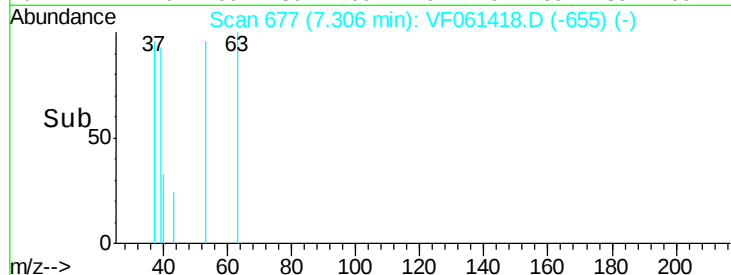
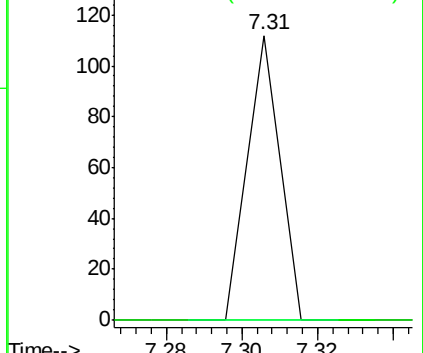
63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 1.307 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.02 min

Lab File: VF061418.D

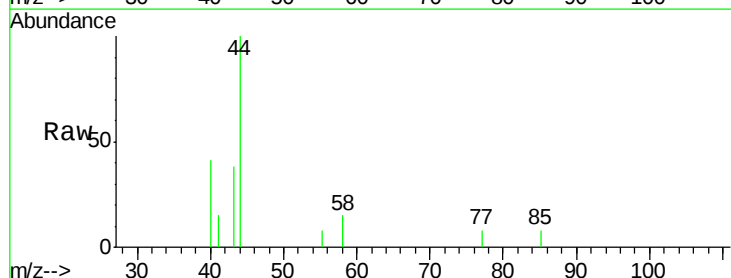
Acq: 16 Jan 2019 18:15

Tgt Ion: 43 Resp: 1578

Ion Ratio Lower Upper

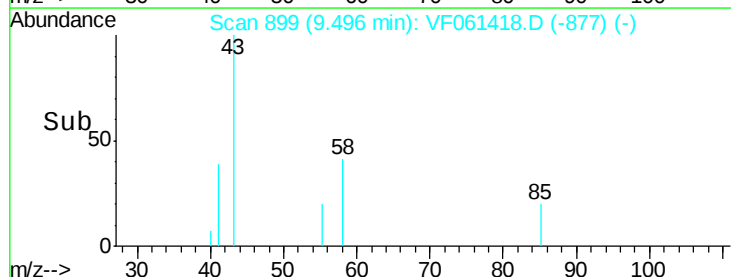
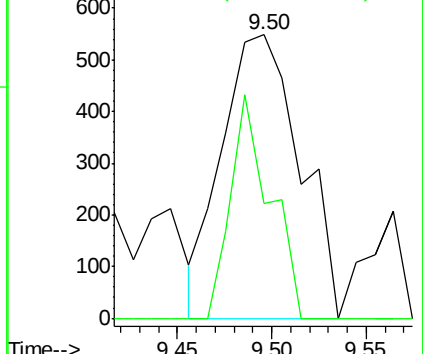
43 100

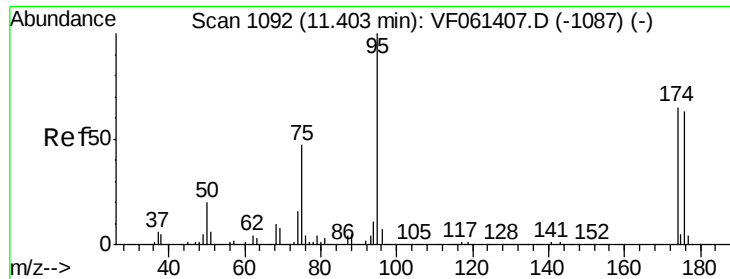
58 40.5 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 36.961 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

Instrument :

MSVOA_F

ClientSampled :

VOC-9RE

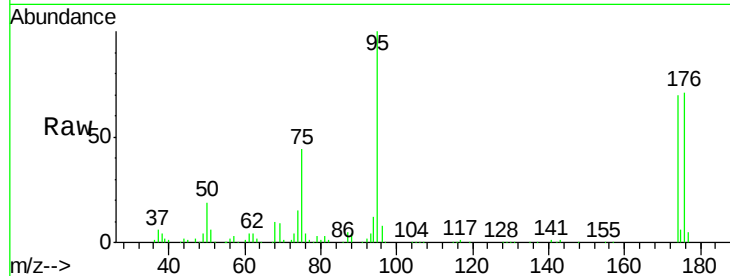
Tot Ion: 95 Resp: 151221

Ion Ratio Lower Upper

95 100

174 70.1 0.0 130.4

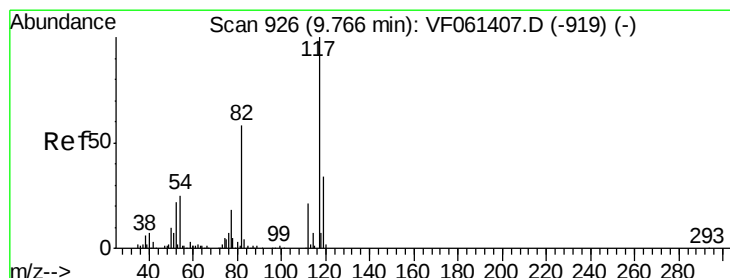
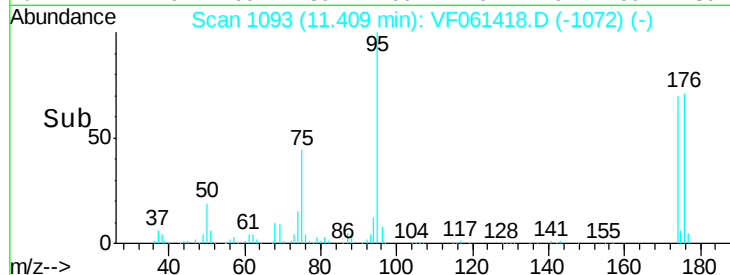
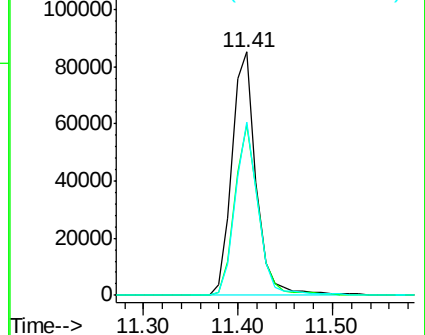
176 71.3 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

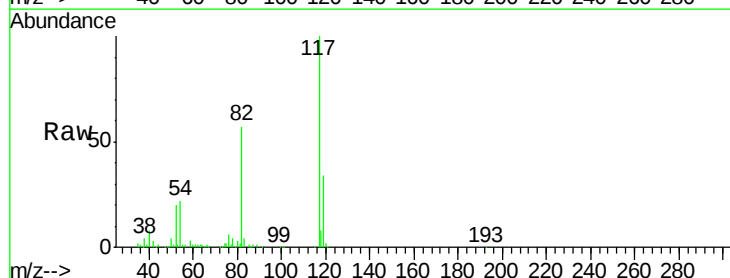
Tgt Ion: 117 Resp: 321240

Ion Ratio Lower Upper

117 100

82 57.1 46.4 69.6

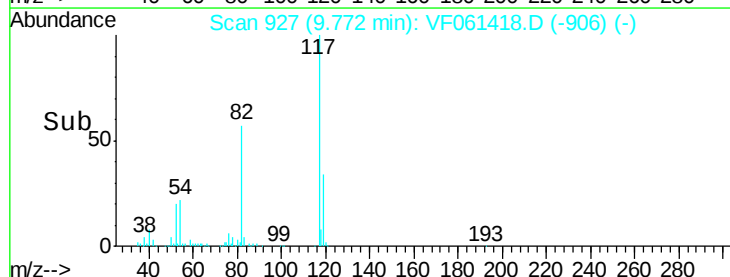
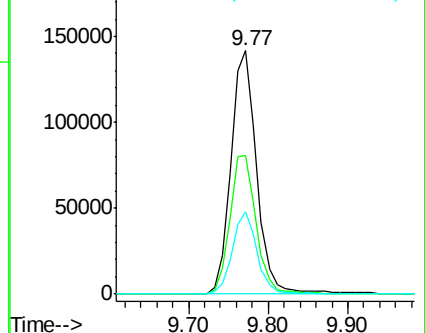
119 33.8 27.2 40.8

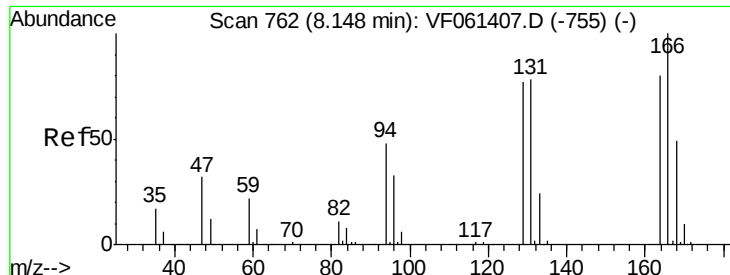


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#64

Tetrachloroethene

Concen: 4.982 ug/l

RT: 8.14 min Scan# 762

Delta R.T. -0.00 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

VOC-9RE

Tot Ion:164 Resp: 12035

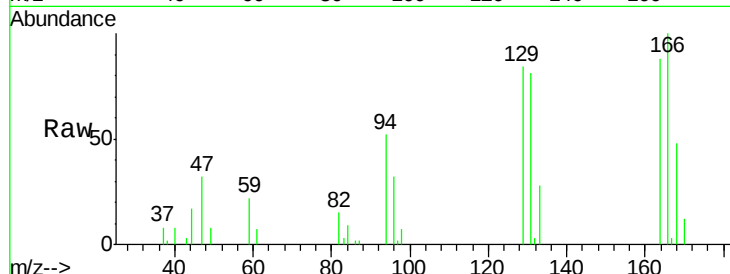
Ion Ratio Lower Upper

164 100

166 113.3 99.6 149.4

129 95.4 76.4 114.6

131 91.4 77.9 116.9

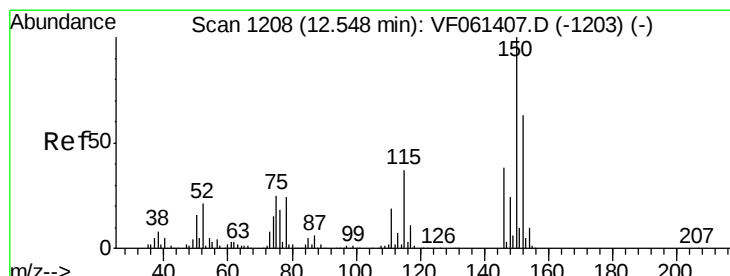
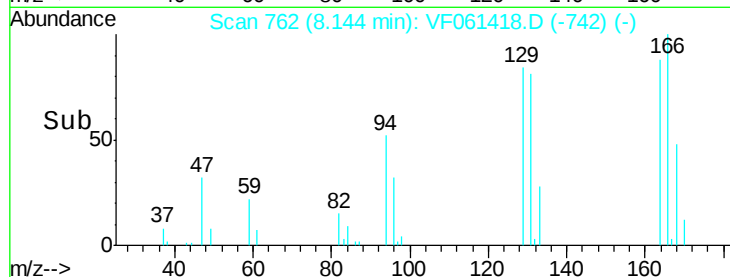
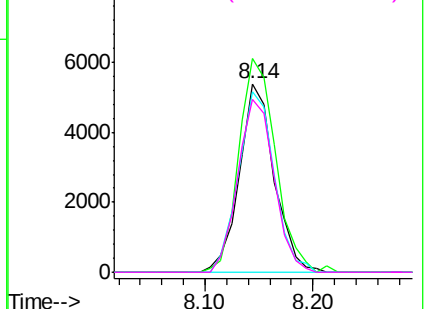


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061418.D

Acq: 16 Jan 2019 18:15

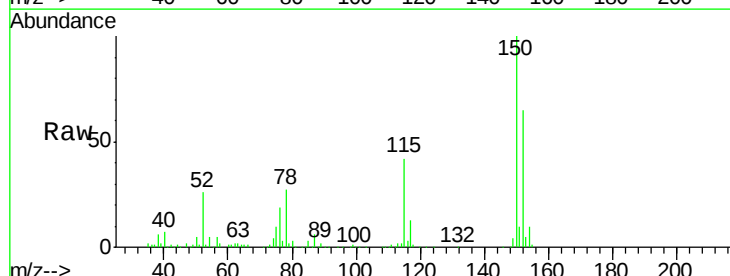
Tgt Ion:152 Resp: 130554

Ion Ratio Lower Upper

152 100

115 64.5 30.0 90.0

150 154.2 0.0 321.4



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

