

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031219\
 Data File : VF061908.D
 Acq On : 12 Mar 2019 16:40
 Operator : VA/AP
 Sample : K1687-01
 Misc : 6.63g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HR-06-031119-A

Quant Time: Mar 13 02:07:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

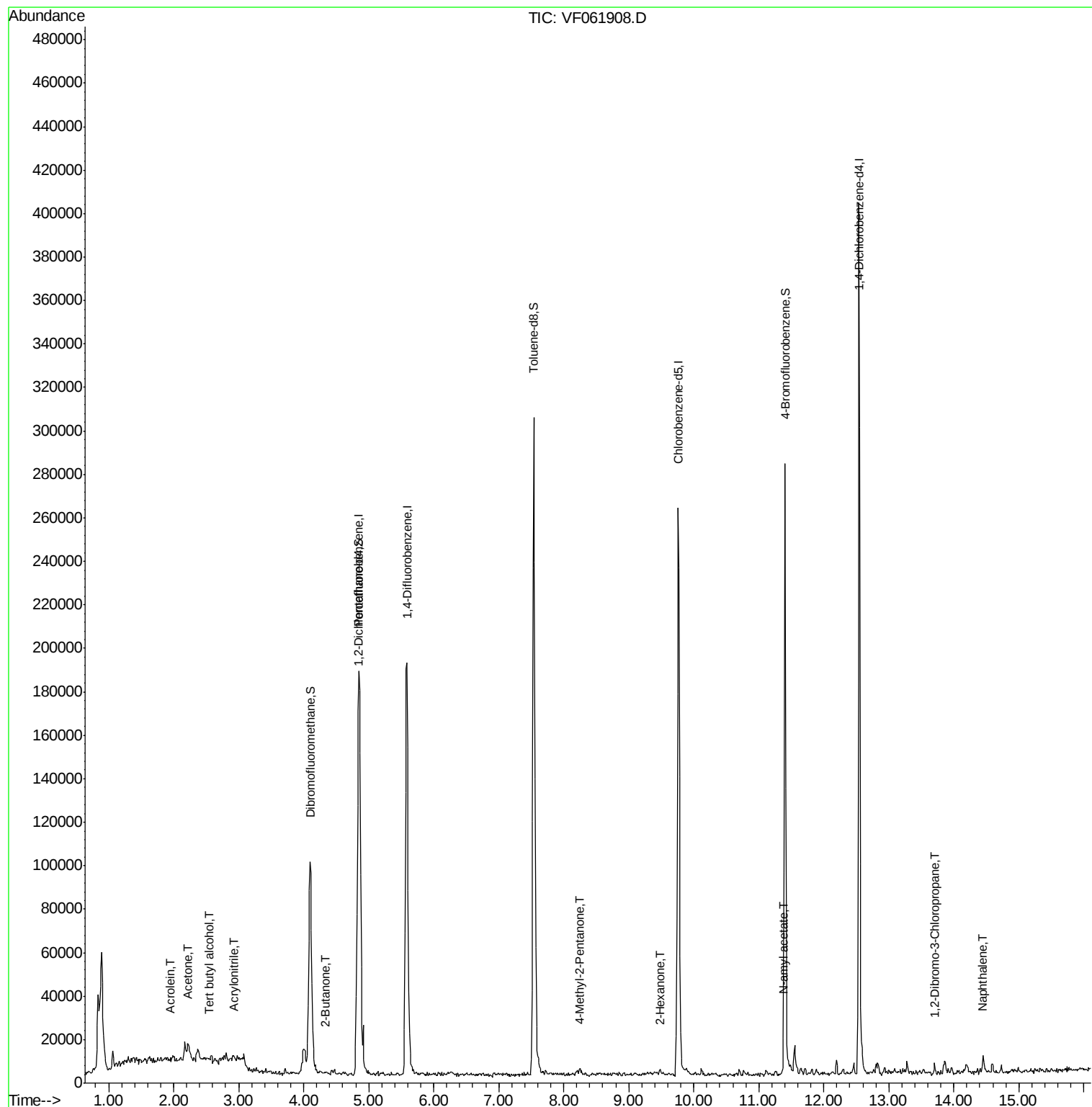
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	176046	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	246475	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	209278	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	115515	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	69845	54.48	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	108.96%	
35) Dibromofluoromethane	4.11	113	99166	57.65	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	115.30%	
50) Toluene-d8	7.54	98	263659	51.57	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	103.14%	
62) 4-Bromofluorobenzene	11.40	95	114136	56.99	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	113.98%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.53	59	561	7.709	ug/l #	64
13) Acrolein	1.94	56	402	4.360	ug/l	90
15) Acrylonitrile	2.93	53	602	2.598	ug/l #	32
16) Acetone	2.22	43	8294	30.884	ug/l	95
18) Methyl Acetate	2.36	43	3519	Below Cal	#	62
20) Methylene Chloride	2.18	84	7477	Below Cal	#	91
25) 2-Butanone	4.32	43	1717	3.143	ug/l #	56
51) 4-Methyl-2-Pentanone	8.24	43	1846	2.217	ug/l #	62
59) 2-Hexanone	9.47	43	2673	4.450	ug/l	70
74) N-amyl acetate	11.37	43	1857	1.014	ug/l #	85
92) 1,2-Dibromo-3-Chloropropan	13.70	75	195	4.553	ug/l #	1
95) Naphthalene	14.45	128	6349	1.477	ug/l #	93

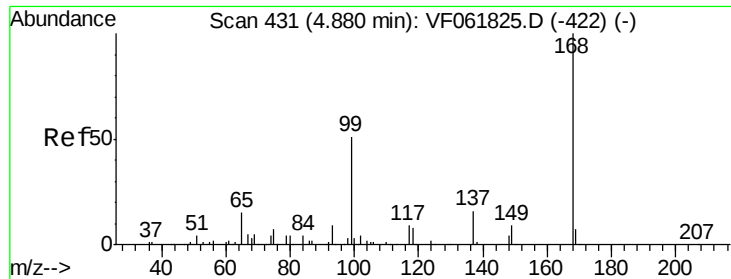
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031219\
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Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

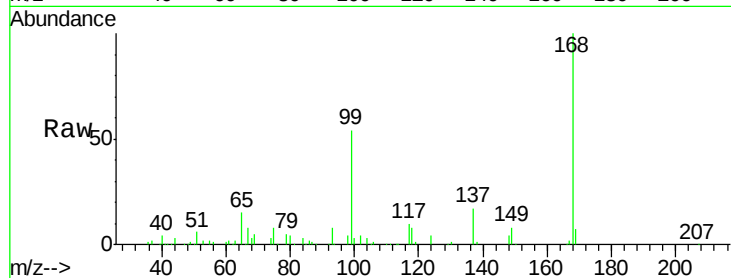
HR-06-031119-A

Tot Ion:168 Resp: 176046

Ion Ratio Lower Upper

168 100

99 54.2 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

50000

40000

30000

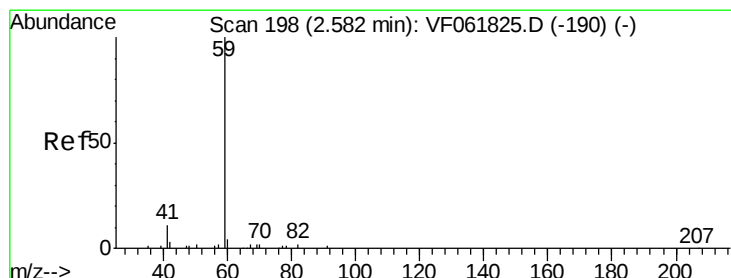
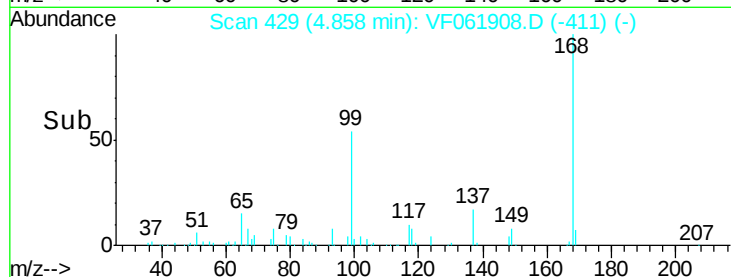
20000

10000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#11

Tert butyl alcohol

Concen: 7.709 ug/l

RT: 2.53 min Scan# 193

Delta R.T. -0.05 min

Lab File: VF061908.D

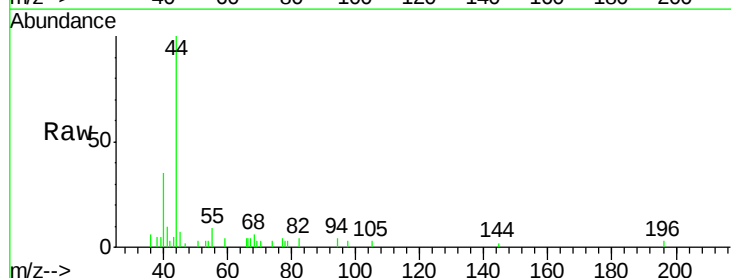
Acq: 12 Mar 2019 16:40

Tgt Ion: 59 Resp: 561

Ion Ratio Lower Upper

59 100

57 0.0 11.8 17.6#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

150

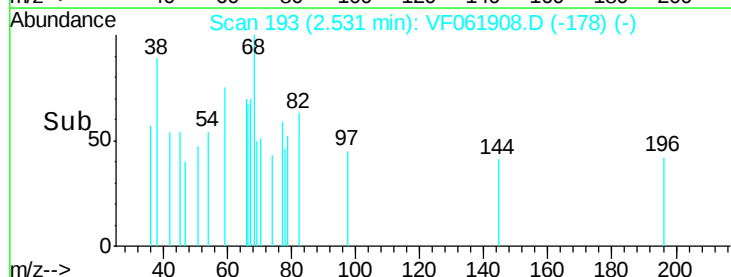
100

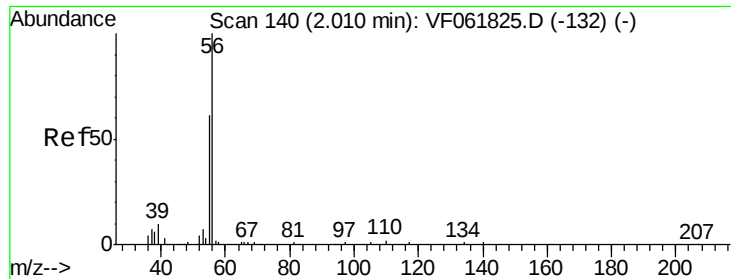
50

0

2.50 2.55 2.60

Time-->





#13

Acrolein

Concen: 4.360 ug/l

RT: 1.94 min Scan# 133

Delta R.T. -0.07 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

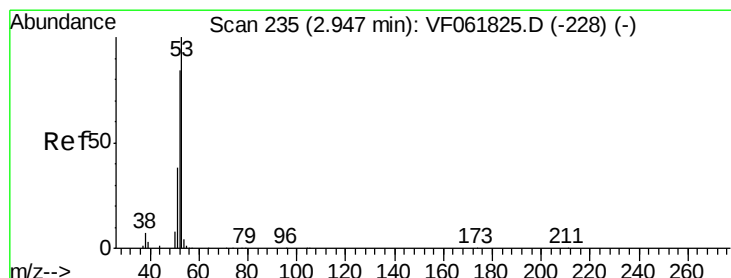
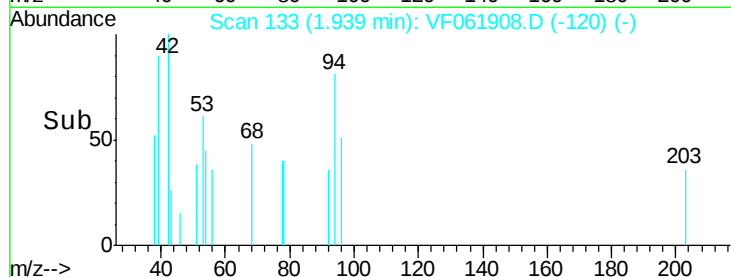
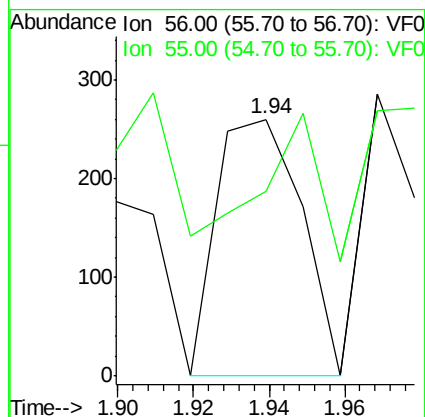
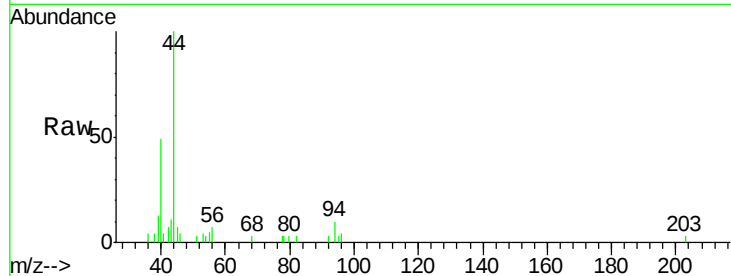
HR-06-031119-A

Tot Ion: 56 Resp: 402

Ion Ratio Lower Upper

56 100

55 71.9 51.3 76.9



#15

Acrylonitrile

Concen: 2.598 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

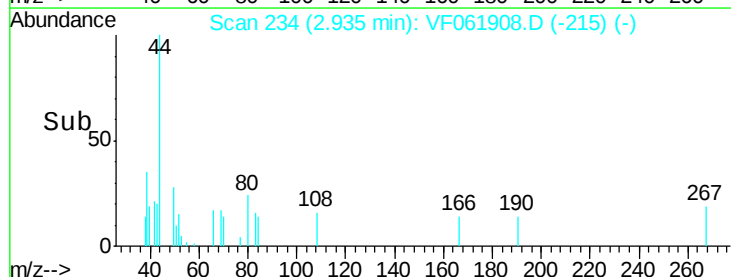
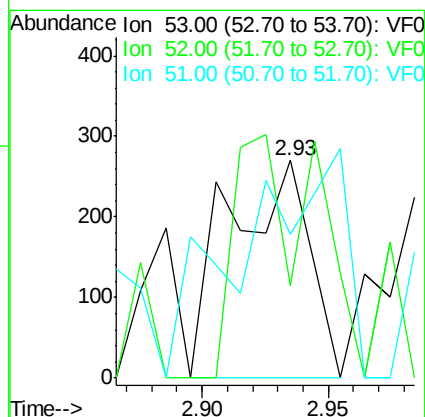
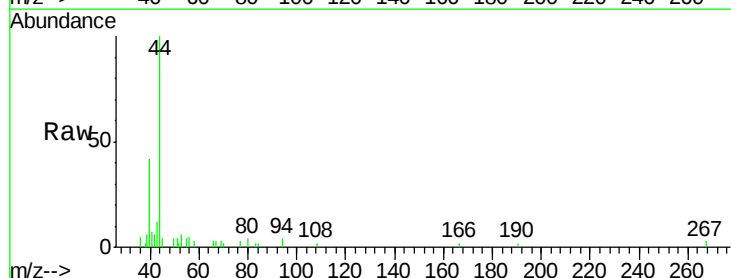
Tgt Ion: 53 Resp: 602

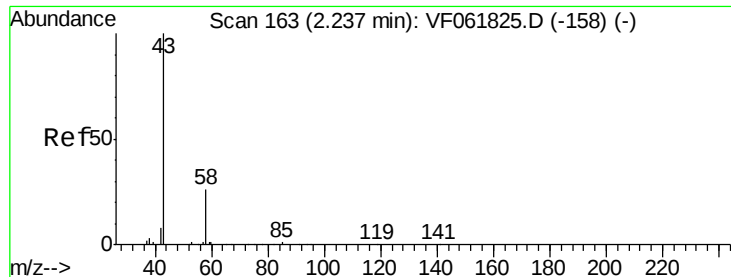
Ion Ratio Lower Upper

53 100

52 42.6 67.4 101.0#

51 108.9 30.7 46.1#





#16

Acetone

Concen: 30.884 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

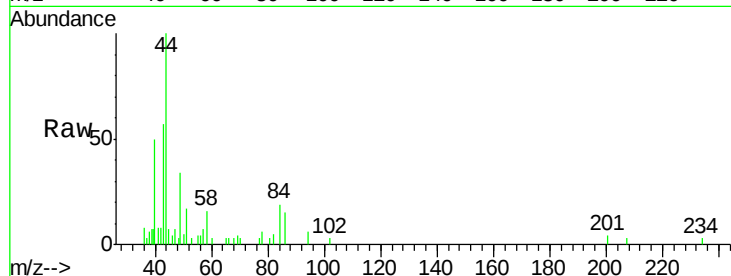
HR-06-031119-A

Tot Ion: 43 Resp: 8294

Ion Ratio Lower Upper

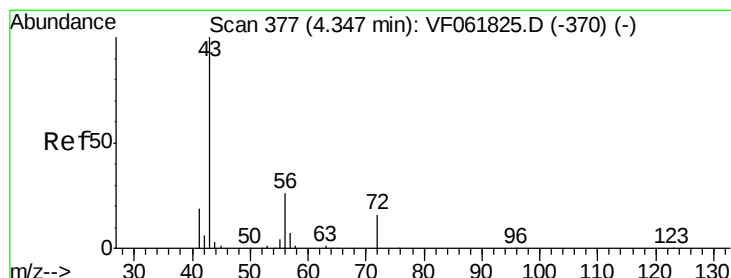
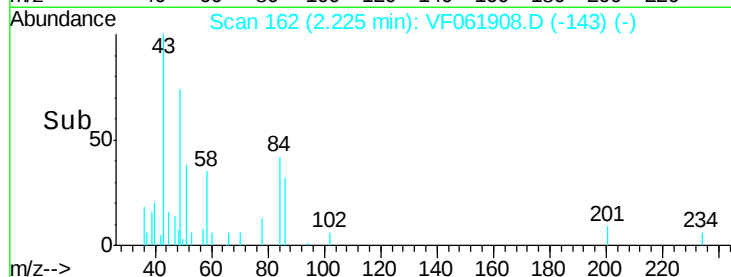
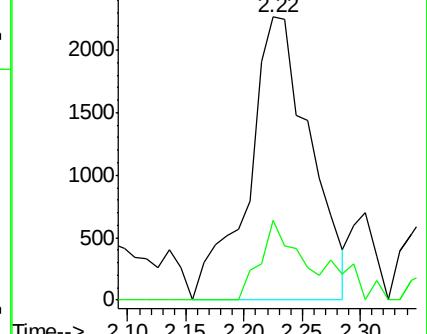
43 100

58 28.0 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#25

2-Butanone

Concen: 3.143 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.03 min

Lab File: VF061908.D

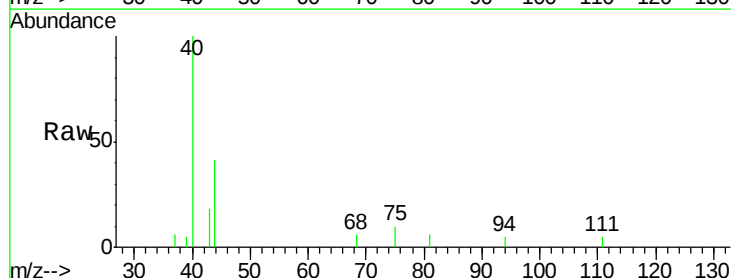
Acq: 12 Mar 2019 16:40

Tgt Ion: 43 Resp: 1717

Ion Ratio Lower Upper

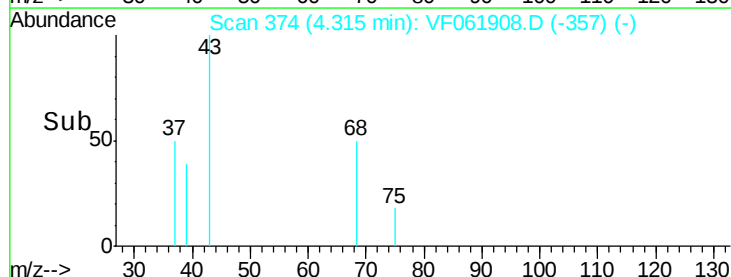
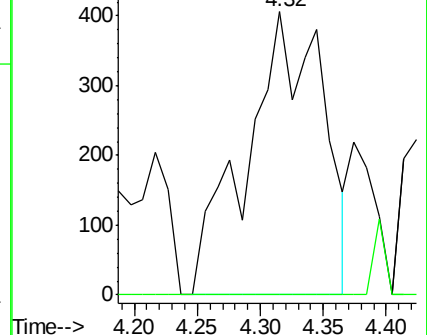
43 100

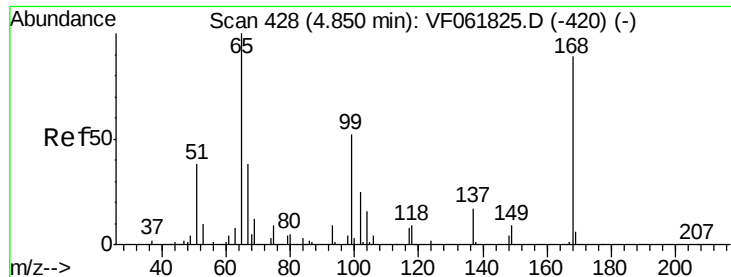
72 0.0 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 54.479 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

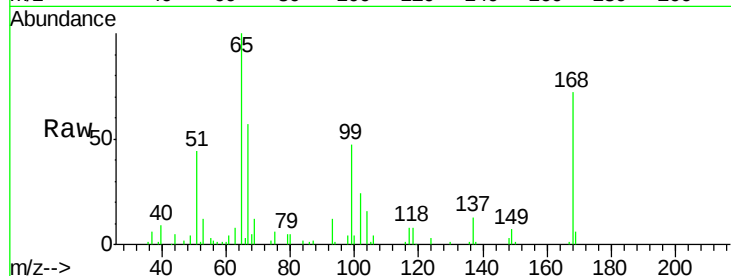
HR-06-031119-A

Tot Ion: 65 Resp: 69845

Ion Ratio Lower Upper

65 100

67 56.7 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.83

25000

20000

15000

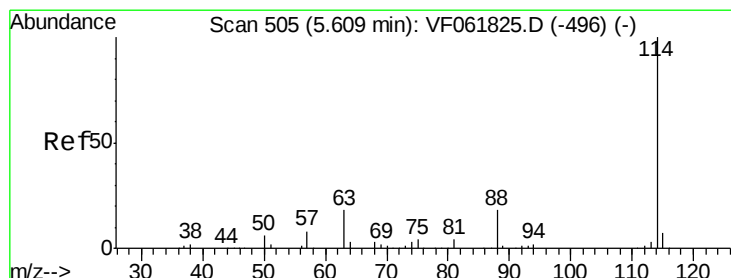
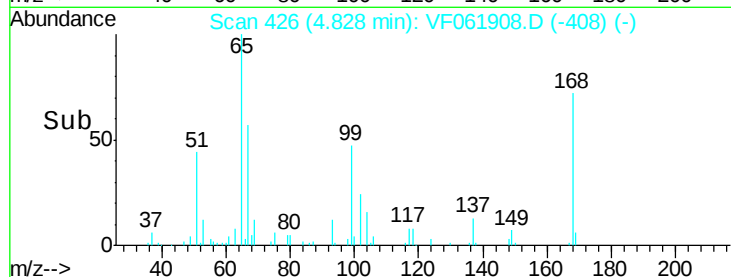
10000

5000

0

4.70 4.80 4.90 5.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

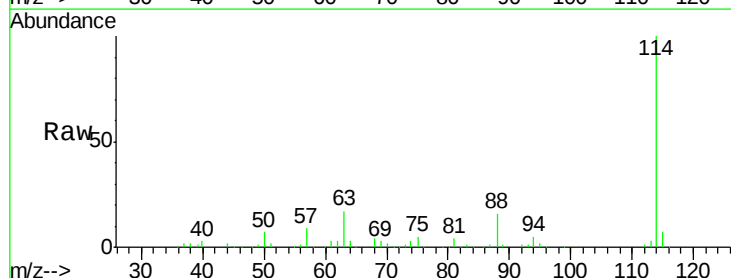
Tgt Ion: 114 Resp: 246475

Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.6

88 15.9 0.0 35.6



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

5.59

120000

100000

80000

60000

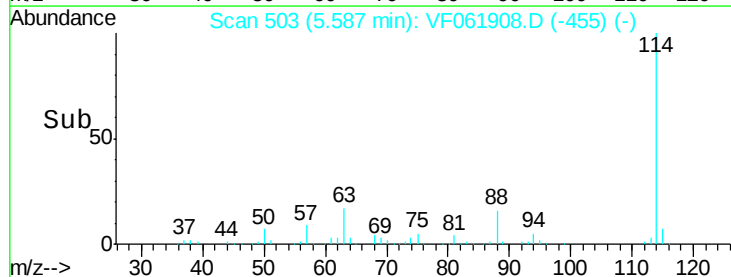
40000

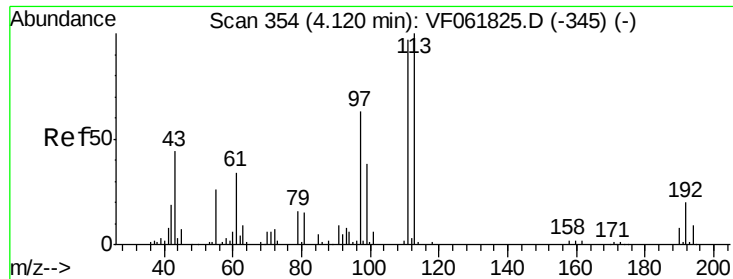
20000

0

5.40 5.50 5.60 5.70 5.80

Time-->





#35

Dibromofluoromethane

Concen: 57.652 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

HR-06-031119-A

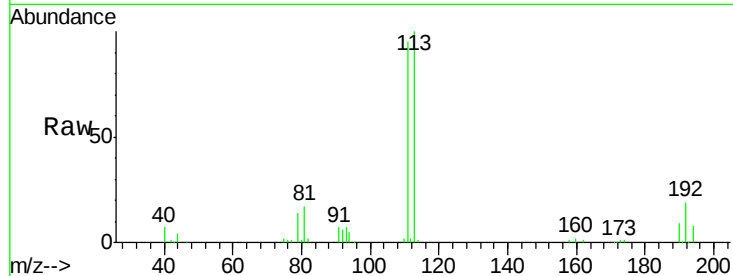
Tot Ion:113 Resp: 99166

Ion Ratio Lower Upper

113 100

111 95.0 77.6 116.4

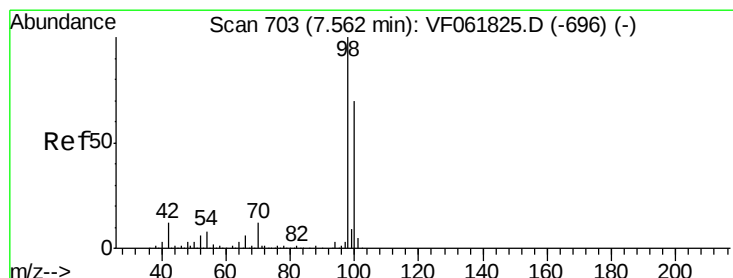
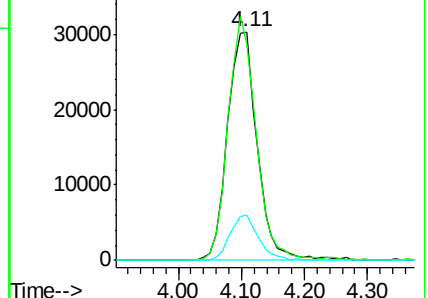
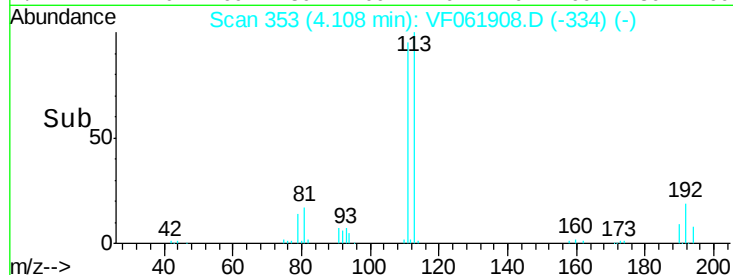
192 19.5 15.9 23.9



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: 51.571 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061908.D

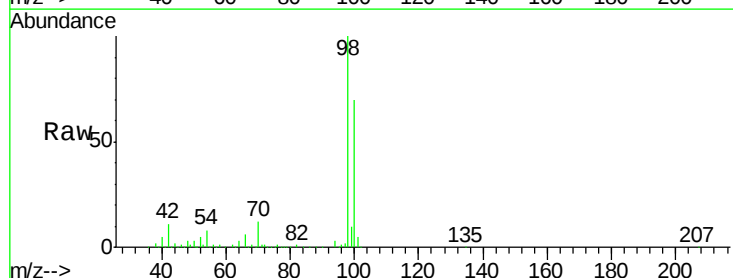
Acq: 12 Mar 2019 16:40

Tgt Ion: 98 Resp: 263659

Ion Ratio Lower Upper

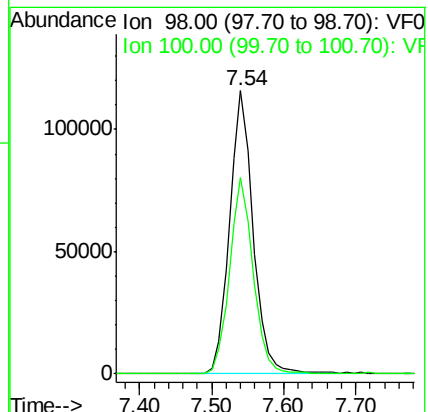
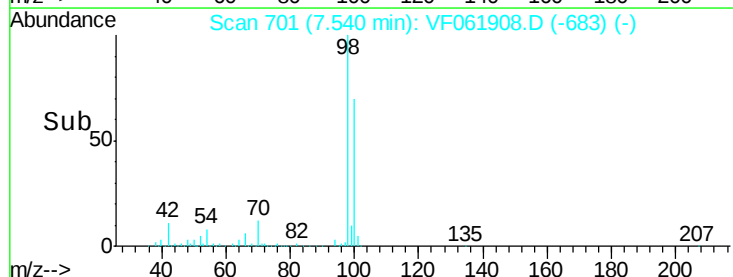
98 100

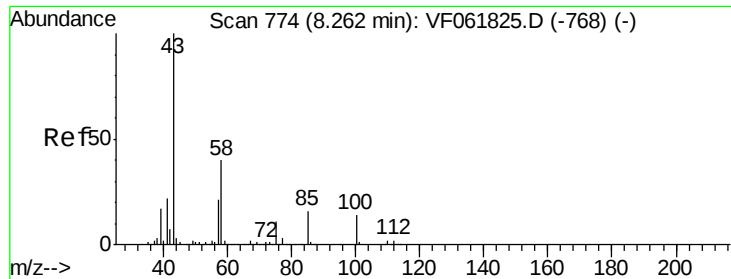
100 69.5 56.0 84.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF





#51

4-Methyl-2-Pentanone

Concen: 2.217 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

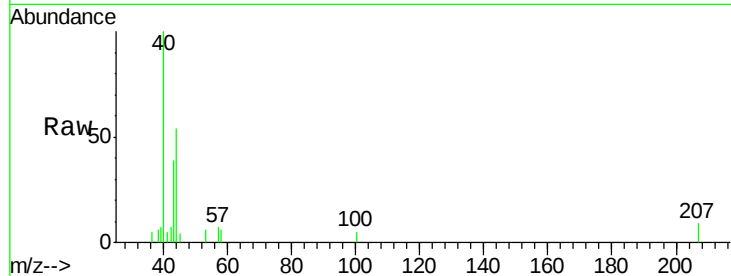
HR-06-031119-A

Tot Ion: 43 Resp: 1846

Ion Ratio Lower Upper

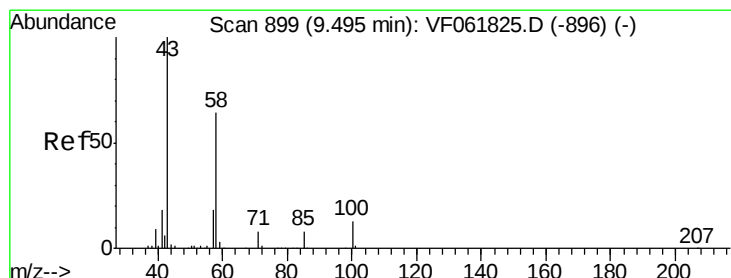
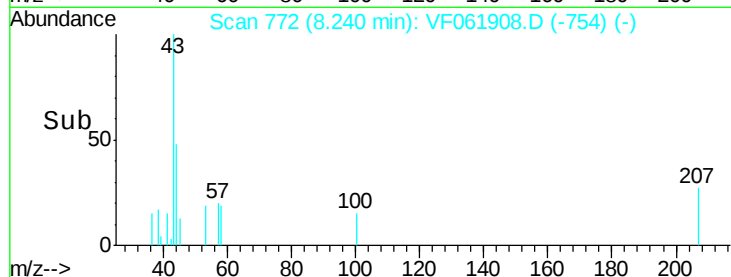
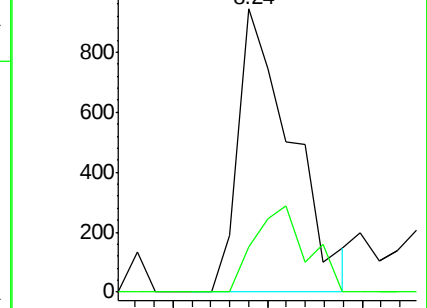
43 100

58 16.1 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 4.450 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.02 min

Lab File: VF061908.D

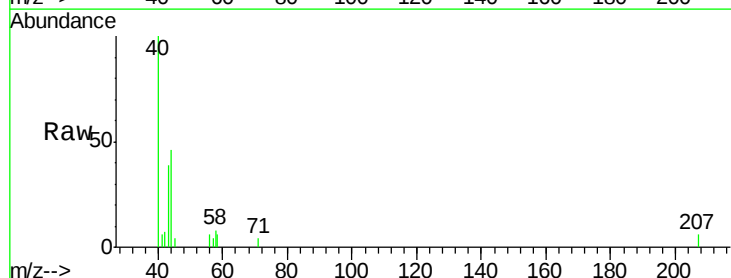
Acq: 12 Mar 2019 16:40

Tgt Ion: 43 Resp: 2673

Ion Ratio Lower Upper

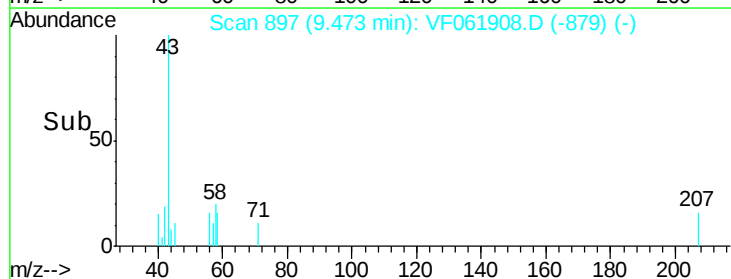
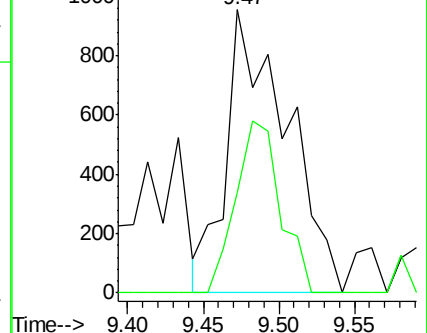
43 100

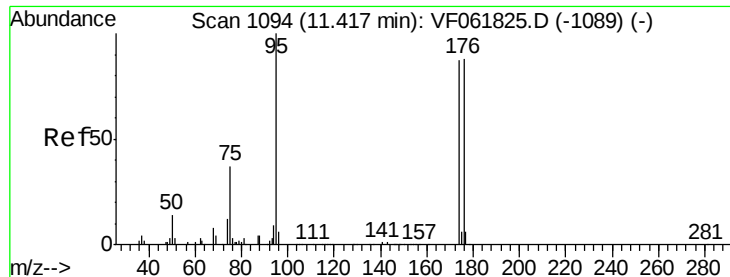
58 35.6 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 56.990 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

HR-06-031119-A

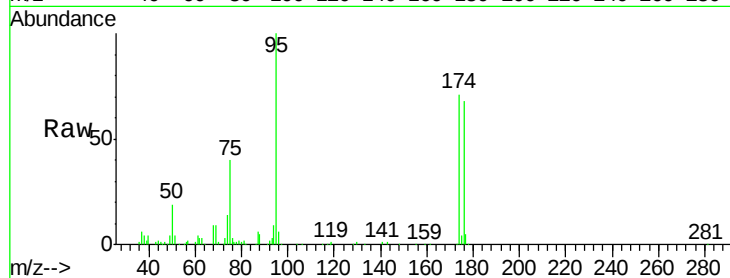
Tot Ion: 95 Resp: 114136

Ion Ratio Lower Upper

95 100

174 71.2 0.0 174.0

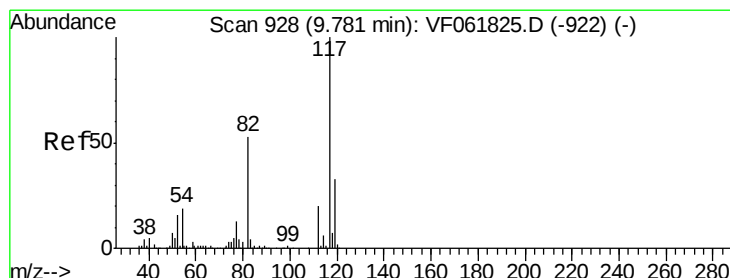
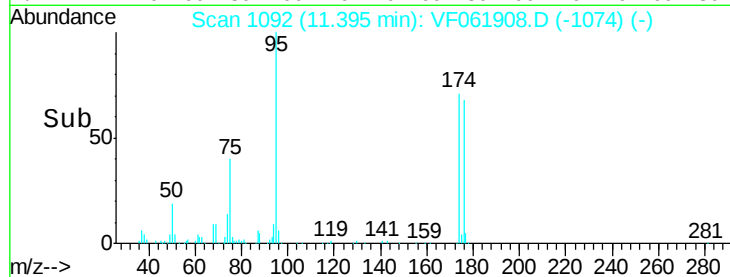
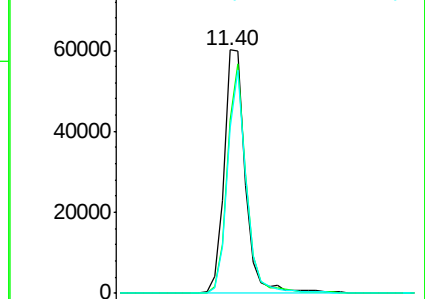
176 67.8 0.0 175.2



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. -0.02 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

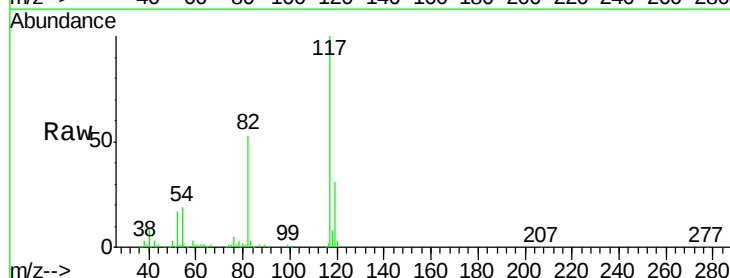
Tgt Ion: 117 Resp: 209278

Ion Ratio Lower Upper

117 100

82 52.8 42.6 63.8

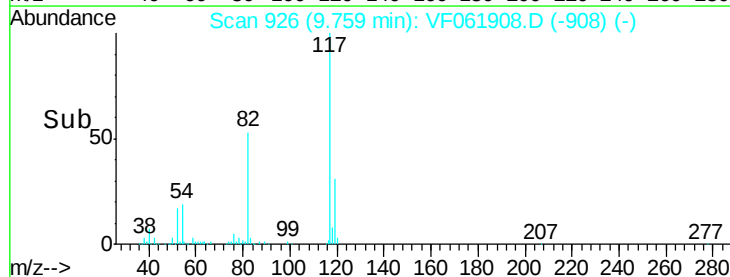
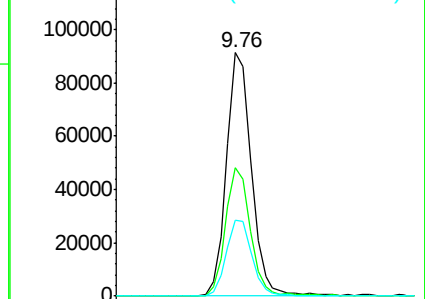
119 31.3 26.0 39.0

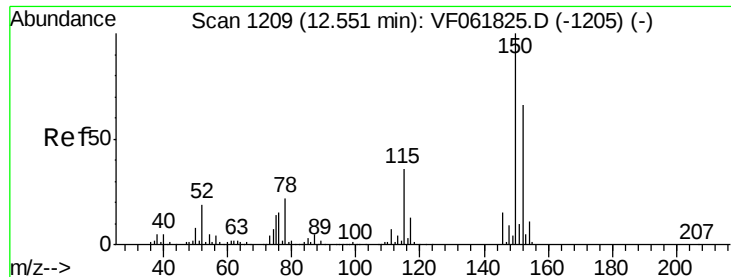


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



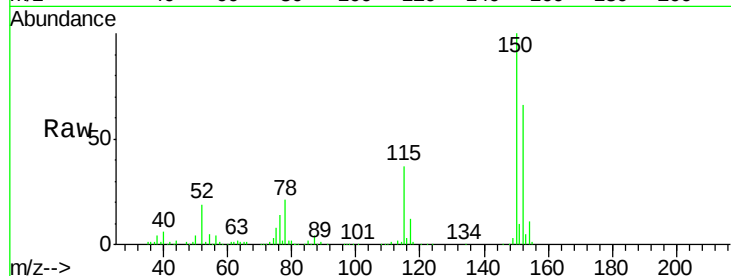


#72

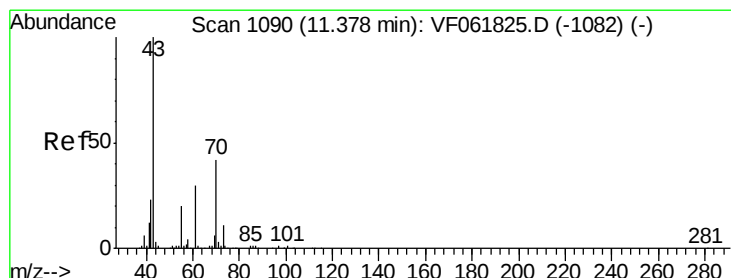
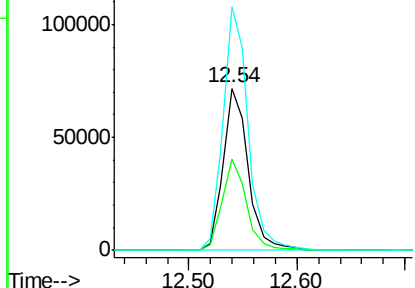
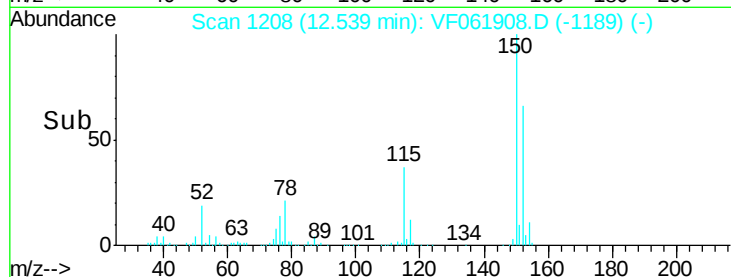
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF061908.D
Acq: 12 Mar 2019 16:40

Instrument :
MSVOA_F
ClientSampleId :
HR-06-031119-A

Tot Ion:152 Resp: 115515
Ion Ratio Lower Upper
152 100
115 56.2 27.7 83.1
150 150.5 0.0 304.2



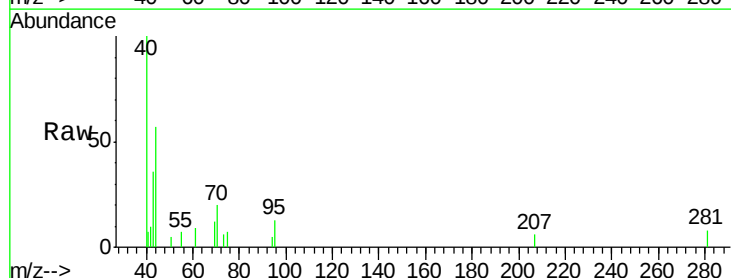
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



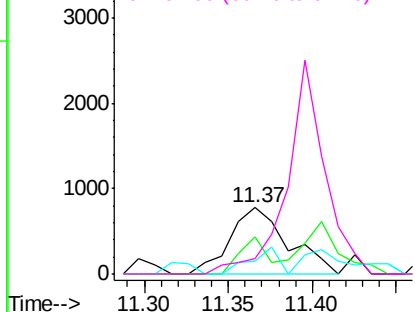
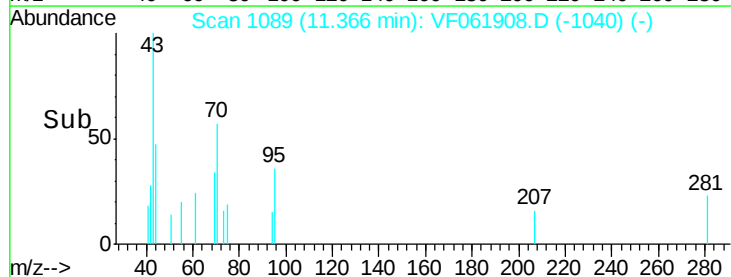
#74

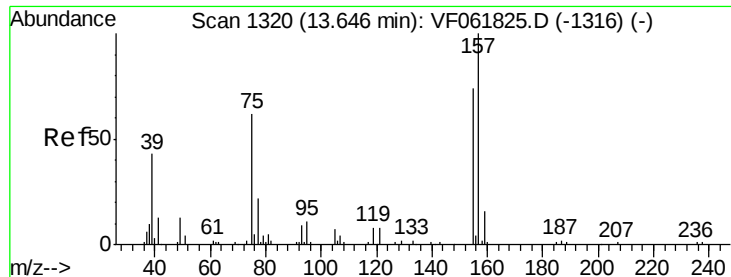
N-ethyl acetate
Concen: 1.014 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VF061908.D
Acq: 12 Mar 2019 16:40

Tgt Ion: 43 Resp: 1857
Ion Ratio Lower Upper
43 100
70 56.7 33.4 50.0#
55 19.7 16.3 24.5
61 24.1 24.0 36.0



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





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.553 ug/l

RT: 13.70 min Scan# 1326

Delta R.T. 0.06 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

HR-06-031119-A

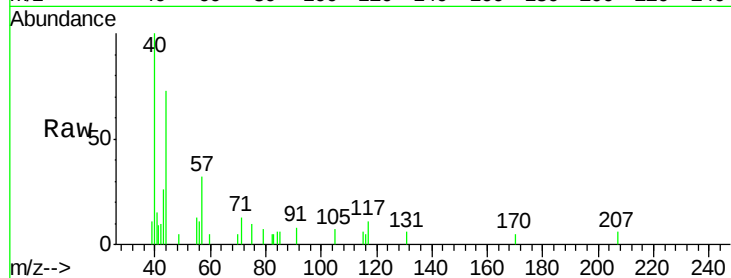
Tot Ion: 75 Resp: 195

Ion Ratio Lower Upper

75 100

155 0.0 59.8 179.4#

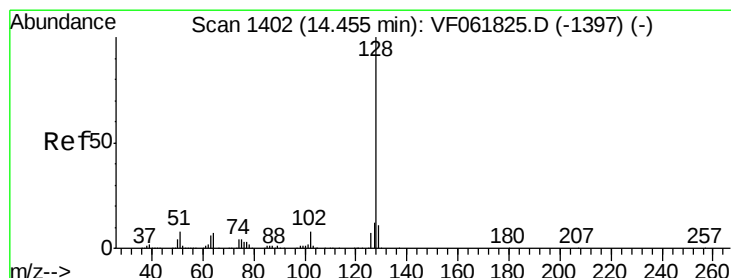
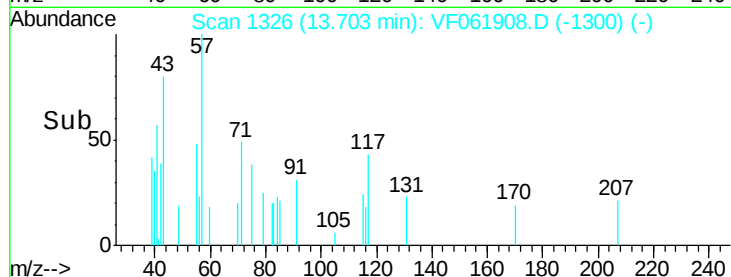
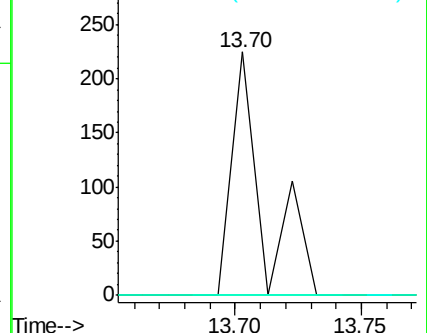
157 0.0 81.2 243.4#



Abundance Ion 75.00 (74.70 to 75.70): VF061825.D (-1316) (-)

Ion 155.00 (154.70 to 155.70): VF061825.D (-1316) (-)

Ion 157.00 (156.70 to 157.70): VF061825.D (-1316) (-)



#95

Naphthalene

Concen: 1.477 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF061908.D

Acq: 12 Mar 2019 16:40

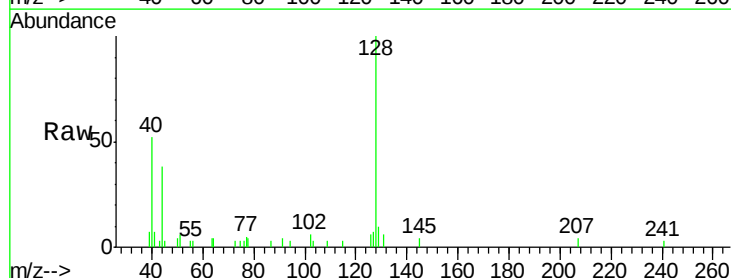
Tgt Ion: 128 Resp: 6349

Ion Ratio Lower Upper

128 100

127 7.1 9.3 13.9#

129 10.2 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): VF061825.D (-1397) (-)

Ion 127.00 (126.70 to 127.70): VF061825.D (-1397) (-)

Ion 129.00 (128.70 to 129.70): VF061825.D (-1397) (-)

