

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\
 Data File : VF061963.D
 Acq On : 15 Mar 2019 16:12
 Operator : VA/AP
 Sample : K1928-06
 Misc : 6.50µ/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 A1-2-H1(2.5-3)

Quant Time: Mar 15 23:17:19 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	4.88	168	225021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	369460	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	326477	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	178538	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	98855	60.33	ug/l	0.00
Spiked Amount			Recovery	=	120.66%	
35) Dibromofluoromethane	4.13	113	134933	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
50) Toluene-d8	7.57	98	371233	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
62) 4-Bromofluorobenzene	11.42	95	161031	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	

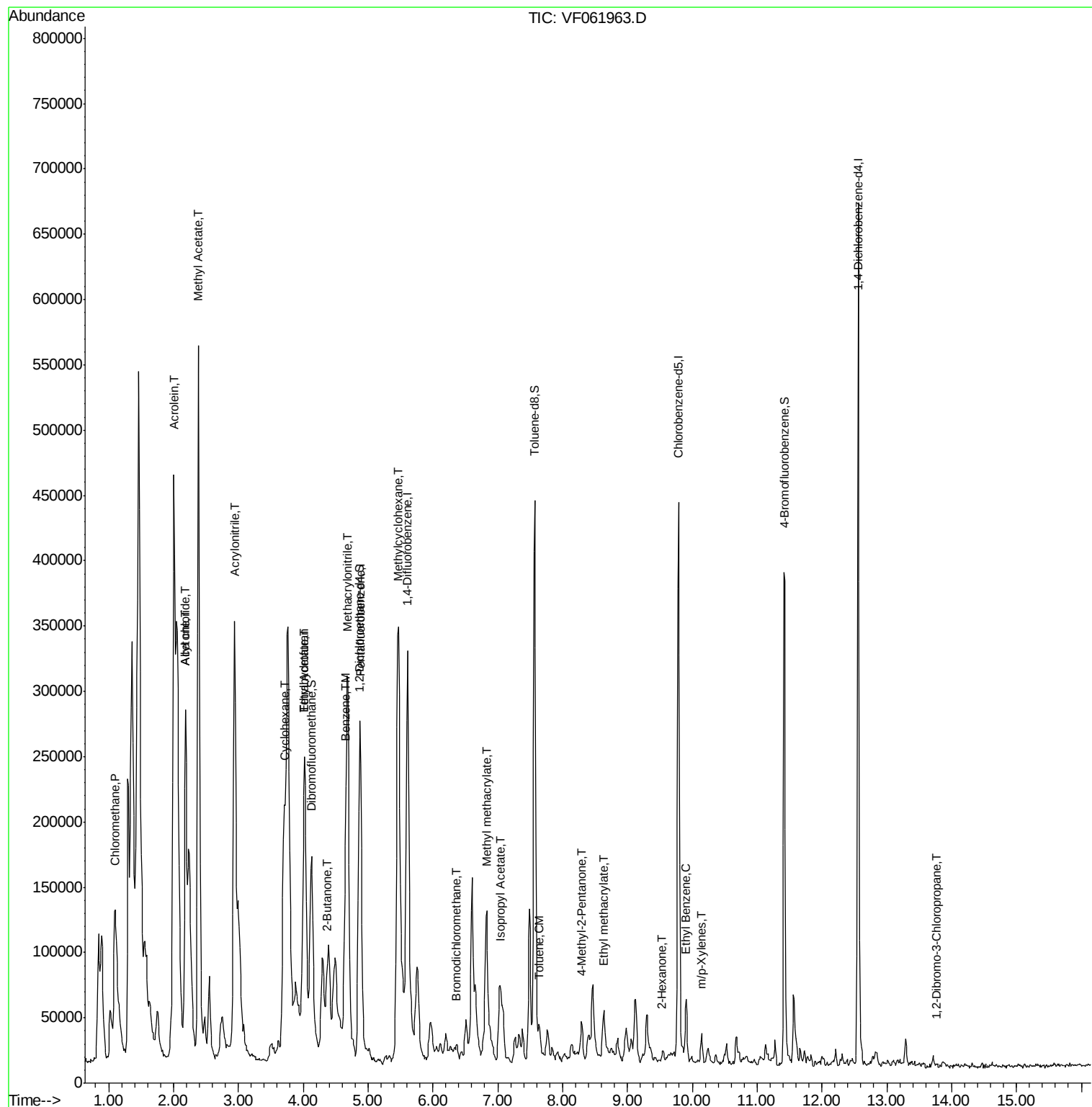
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.11	50	5000	1.868	ug/l #	69
13) Acrolein	2.01	56	44161	374.703	ug/l #	1
14) Allyl chloride	2.19	41	115490	54.473	ug/l #	40
15) Acrylonitrile	2.95	53	19468	65.732	ug/l #	47
16) Acetone	2.19	43	33889	98.726	ug/l #	81
18) Methyl Acetate	2.38	43	199500	191.011	ug/l #	62
20) Methylene Chloride	2.20	84	4858	Below Cal	#	51
25) 2-Butanone	4.36	43	23160	33.170	ug/l #	60
29) Tetrahydrofuran	4.02	42	22230	73.824	ug/l #	1
31) Cyclohexane	3.70	56	144613	41.885	ug/l	97
37) Ethyl Acetate	4.02	43	186761	127.495	ug/l #	8
39) Methylcyclohexane	5.47	83	276563	67.092	ug/l	99
40) Benzene	4.65	78	144929	15.887	ug/l	98
41) Methacrylonitrile	4.68	41	138670	172.781	ug/l #	42
43) Isopropyl Acetate	7.05	43	3494	1.935	ug/l #	42
47) Bromodichloromethane	6.35	83	3914	1.298	ug/l #	24
48) Methyl methacrylate	6.82	41	38244	33.466	ug/l #	43
51) 4-Methyl-2-Pentanone	8.30	43	14908	11.946	ug/l #	47
52) Toluene	7.64	92	11474	2.126	ug/l	85
56) Ethyl methacrylate	8.63	69	18121	10.341	ug/l #	80
59) 2-Hexanone	9.52	43	1980	2.199	ug/l #	22
67) Ethyl Benzene	9.91	91	17185	1.653	ug/l	93
68) m/p-Xylenes	10.14	106	8416	2.113	ug/l #	70
92) 1,2-Dibromo-3-Chloropropan	13.75	75	64	3.934	ug/l #	1

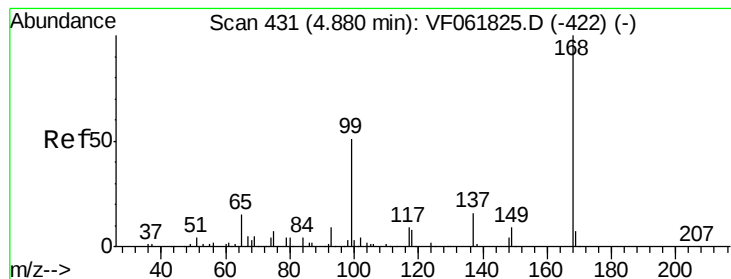
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031519\
Data File : VF061963.D
Acq On : 15 Mar 2019 16:12
Operator : VA/AP
Sample : K1928-06
Misc : 6.50q/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
A1-2-H1(2.5-3)

Quant Time: Mar 15 23:17:19 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
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: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

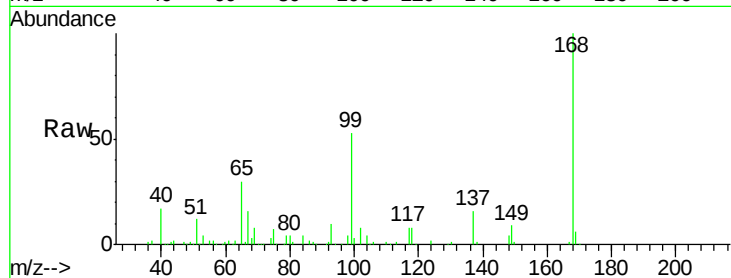
A1-2-H1(2.5-3)

Tot Ion:168 Resp: 225021

Ion Ratio Lower Upper

168 100

99 52.5 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

80000

60000

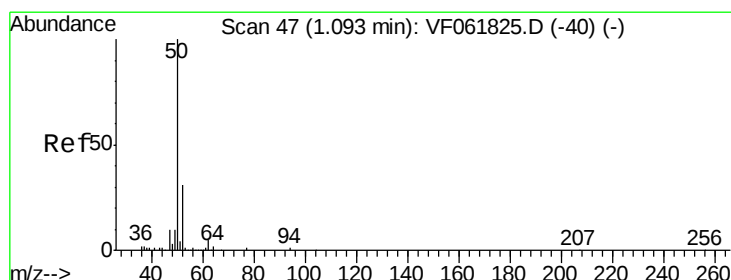
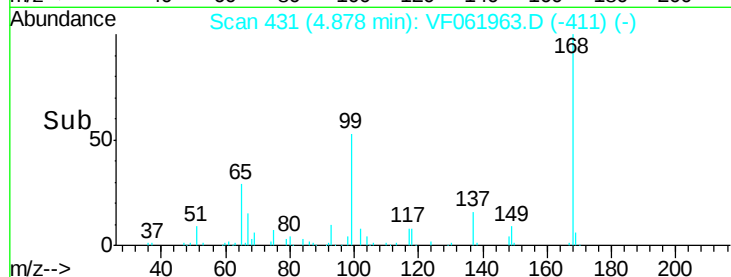
40000

20000

0

4.80 4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 1.868 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.02 min

Lab File: VF061963.D

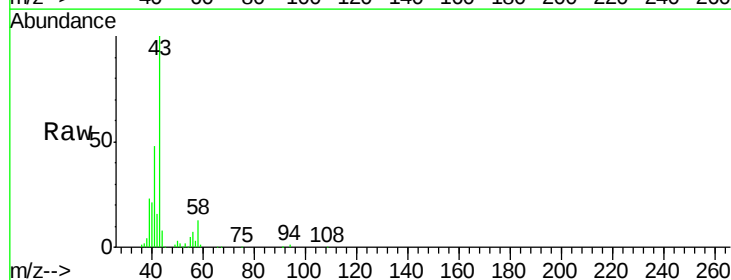
Acq: 15 Mar 2019 16:12

Tgt Ion: 50 Resp: 5000

Ion Ratio Lower Upper

50 100

52 13.3 23.8 35.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.11

1500

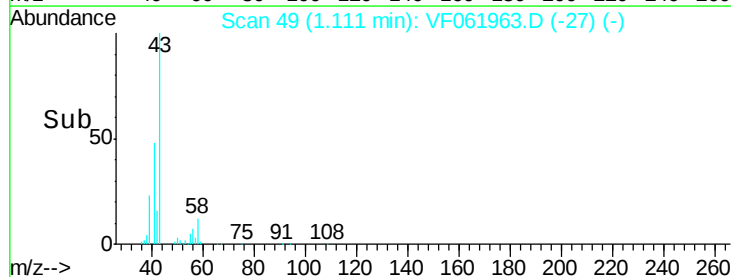
1000

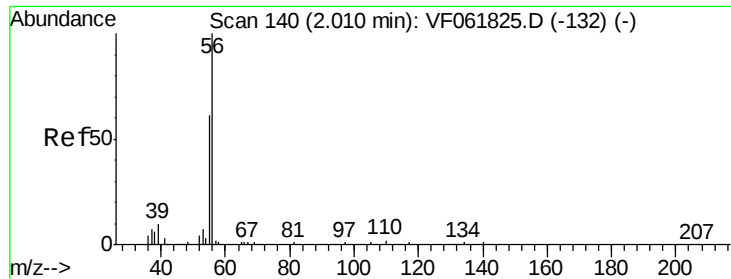
500

0

1.05 1.10 1.15

Time-->





#13

Acrolein

Concen: 374.703 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

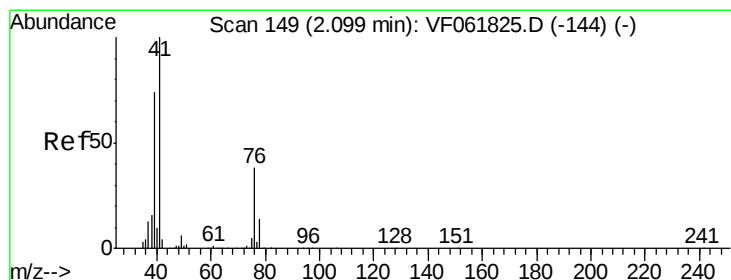
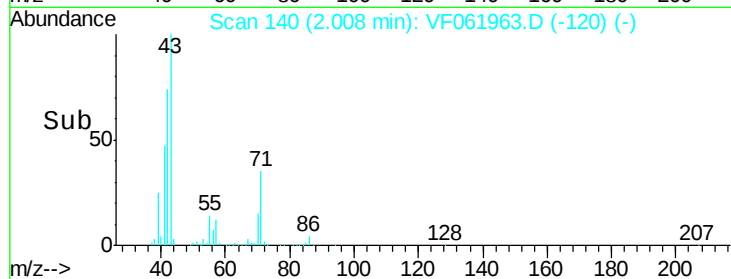
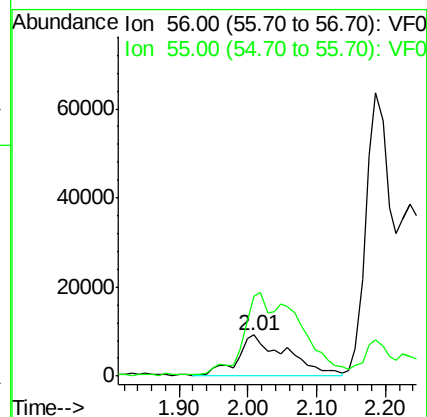
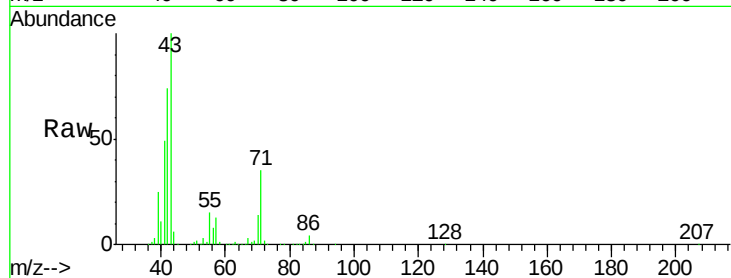
A1-2-H1(2.5-3)

Tot Ion: 56 Resp: 44161

Ion Ratio Lower Upper

56 100

55 193.7 51.3 76.9#



#14

Allyl chloride

Concen: 54.473 ug/l

RT: 2.19 min Scan# 158

Delta R.T. 0.09 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

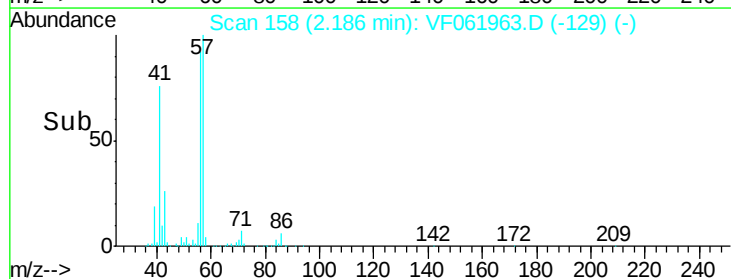
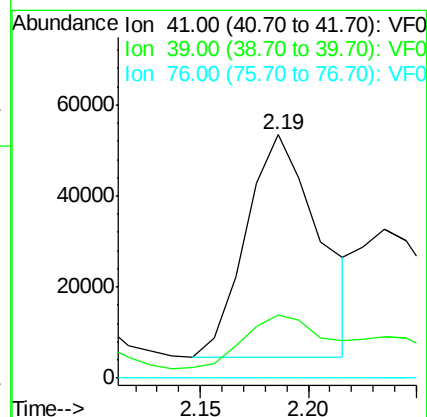
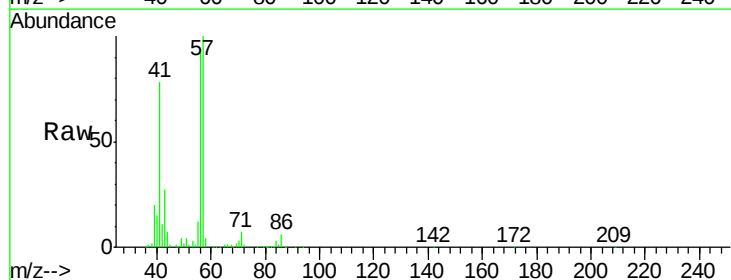
Tgt Ion: 41 Resp: 115490

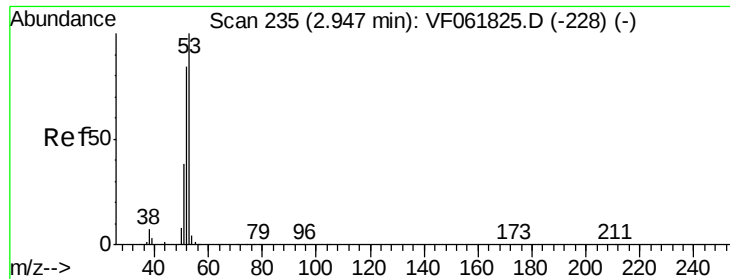
Ion Ratio Lower Upper

41 100

39 25.8 59.6 89.4#

76 0.0 32.3 48.5#





#15

Acrylonitrile

Concen: 65.732 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

A1-2-H1(2.5-3)

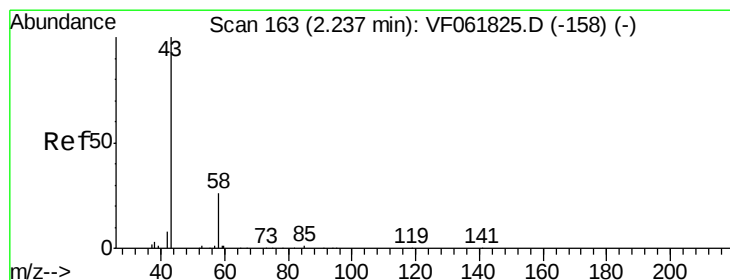
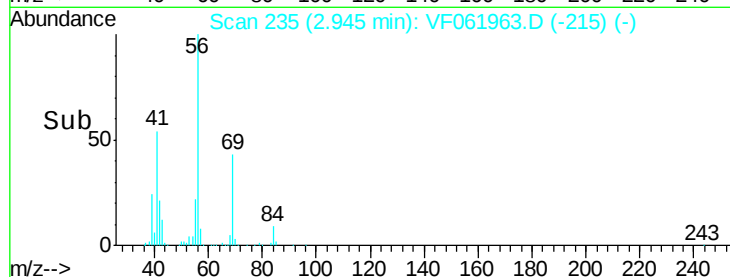
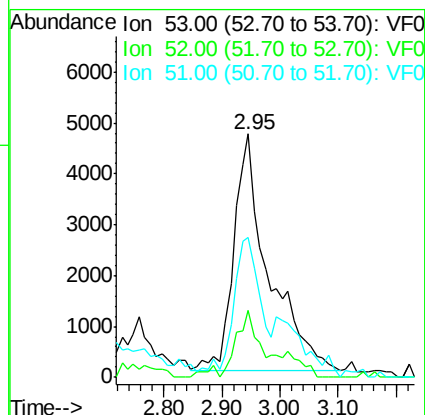
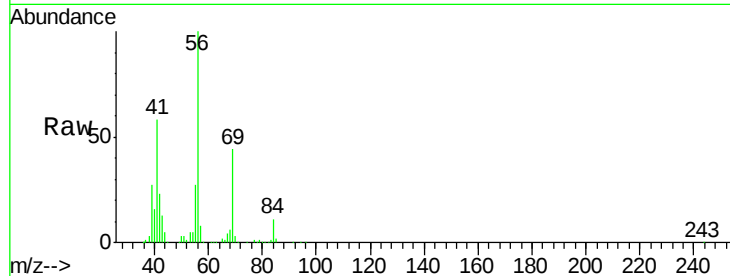
Tot Ion: 53 Resp: 19468

Ion Ratio Lower Upper

53 100

52 27.3 67.4 101.0#

51 57.5 30.7 46.1#



#16

Acetone

Concen: 98.726 ug/l

RT: 2.19 min Scan# 158

Delta R.T. -0.05 min

Lab File: VF061963.D

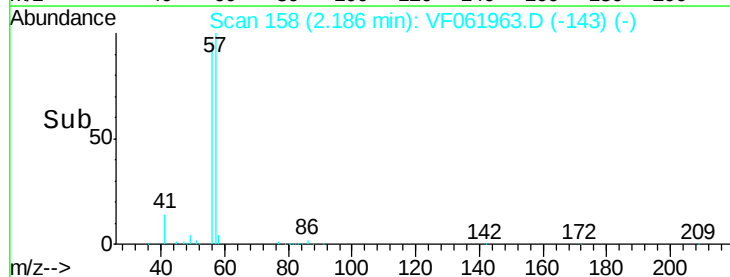
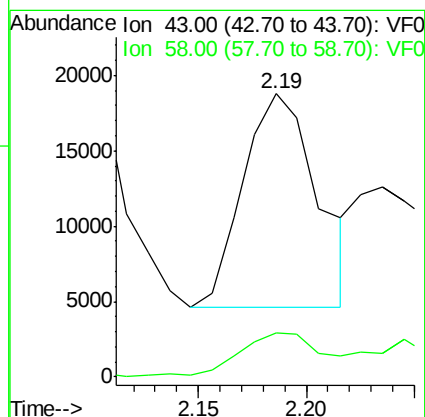
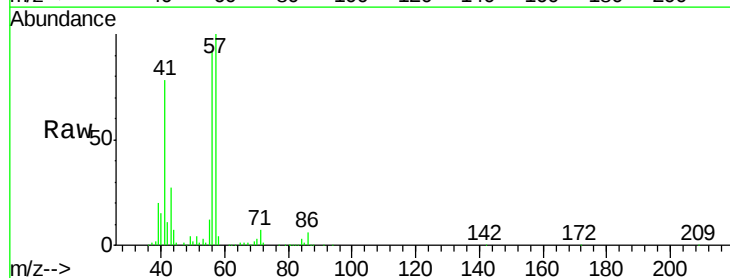
Acq: 15 Mar 2019 16:12

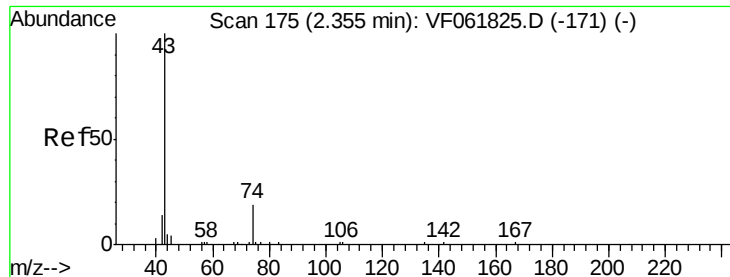
Tgt Ion: 43 Resp: 33889

Ion Ratio Lower Upper

43 100

58 15.7 20.3 30.5#

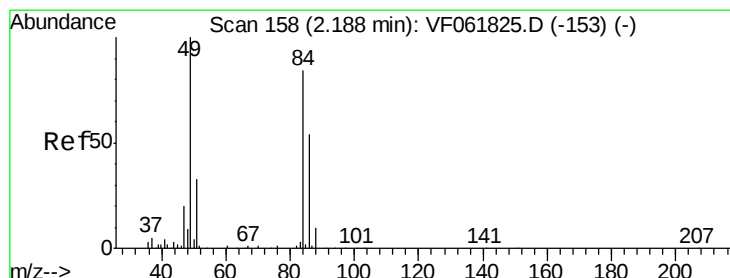
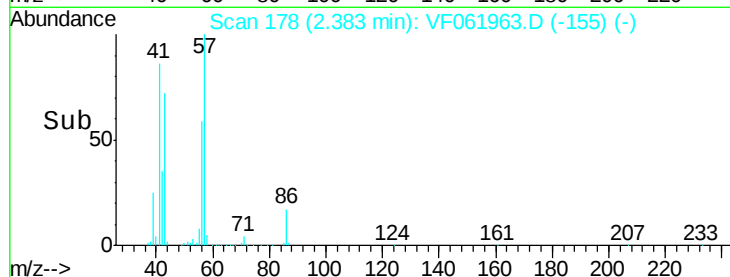
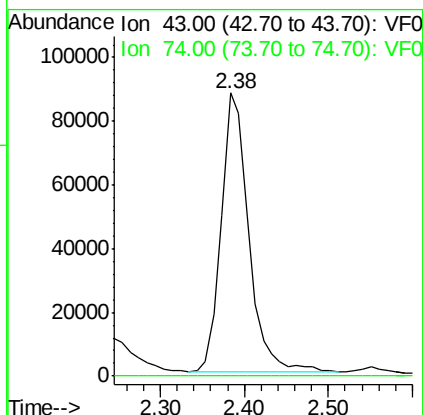
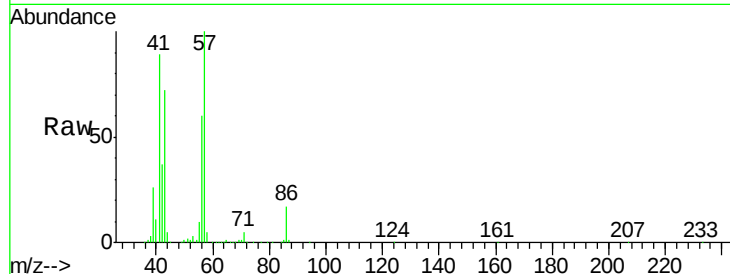




#18
Methyl Acetate
Concen: 191.011 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.03 min
Lab File: VF061963.D
Acq: 15 Mar 2019 16:12

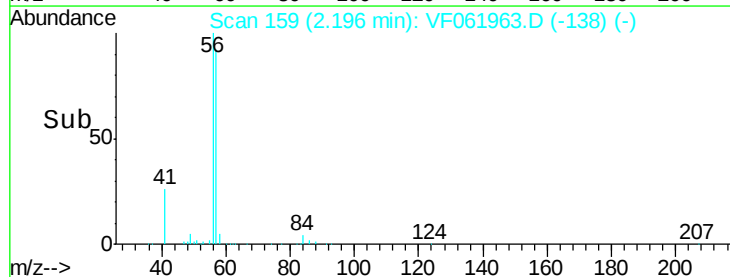
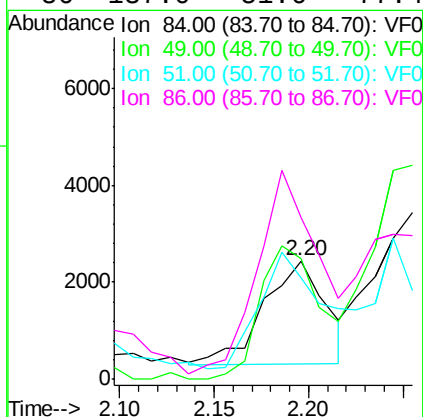
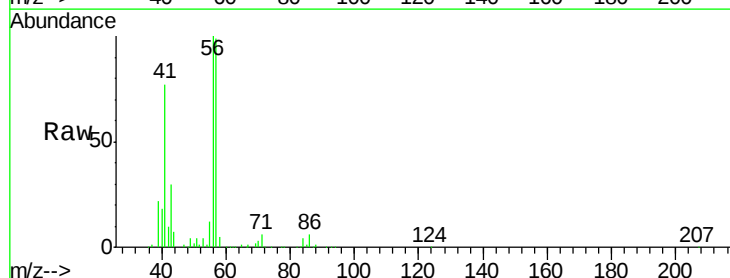
Instrument :
MSVOA_F
ClientSampleId :
A1-2-H1(2.5-3)

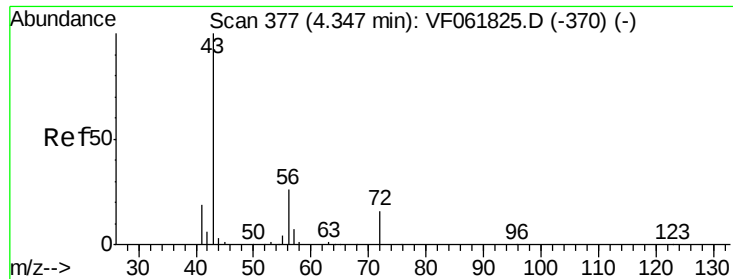
Tot Ion: 43 Resp: 199500
Ion Ratio Lower Upper
43 100
74 0.2 13.2 19.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.20 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF061963.D
Acq: 15 Mar 2019 16:12

Tgt Ion: 84 Resp: 4858
Ion Ratio Lower Upper
84 100
49 101.9 96.8 145.2
51 86.2 31.8 47.6#
86 137.0 51.6 77.4#





#25

2-Butanone

Concen: 33.170 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

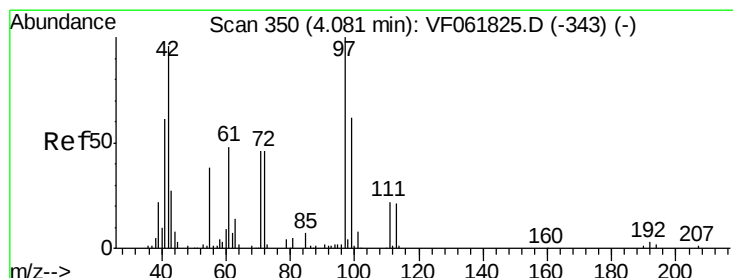
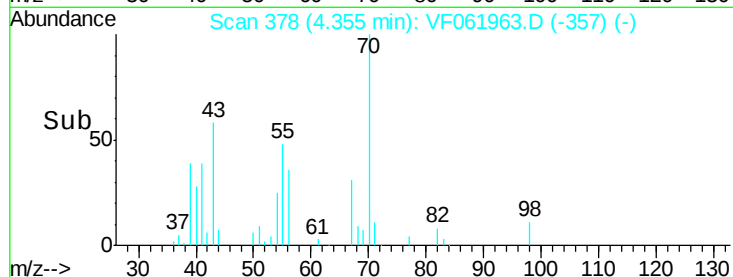
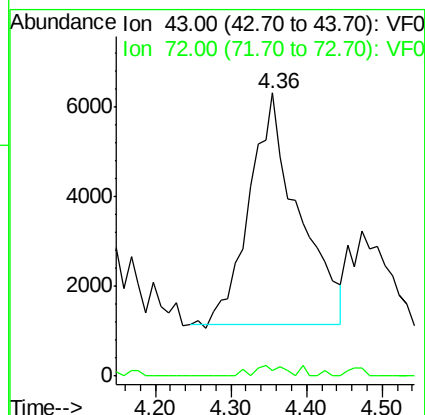
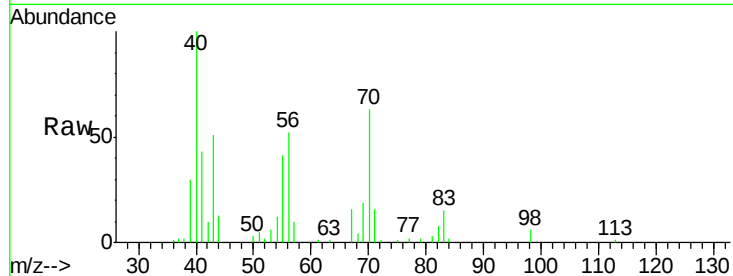
A1-2-H1(2.5-3)

Tot Ion: 43 Resp: 23160

Ion Ratio Lower Upper

43 100

72 1.9 16.2 24.4#



#29

Tetrahydrofuran

Concen: 73.824 ug/l

RT: 4.02 min Scan# 344

Delta R.T. -0.06 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

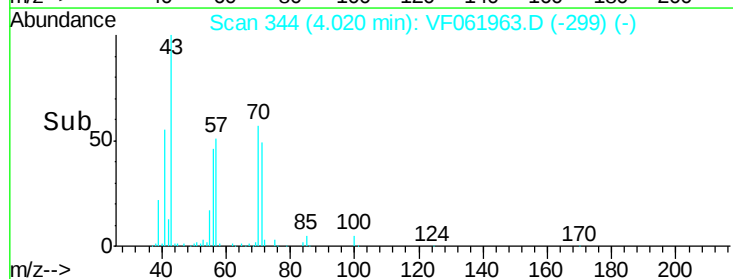
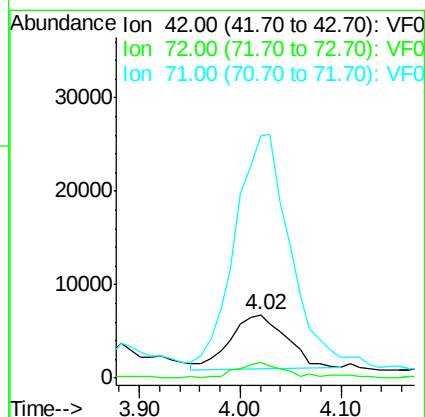
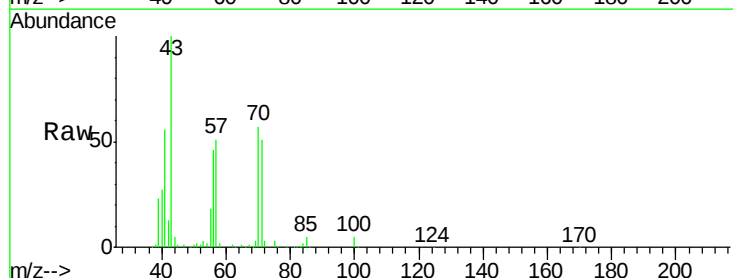
Tgt Ion: 42 Resp: 22230

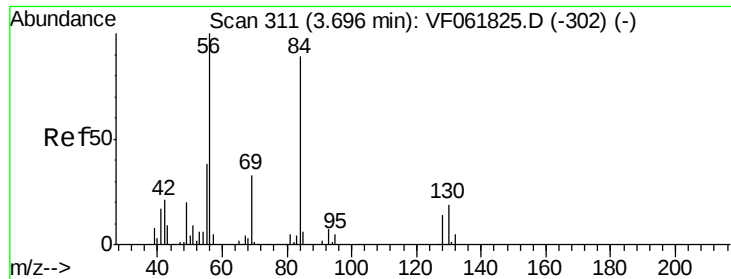
Ion Ratio Lower Upper

42 100

72 24.6 34.4 51.6#

71 485.3 34.6 52.0#

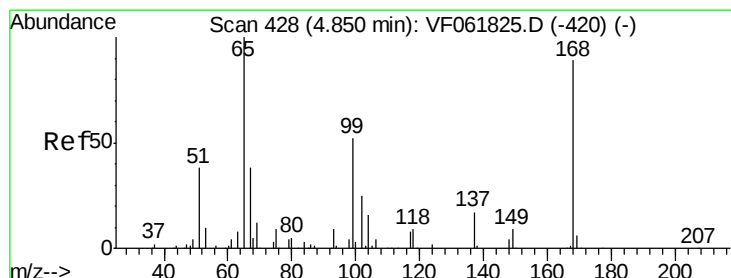
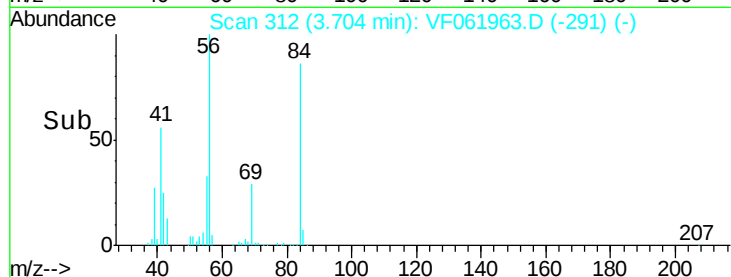
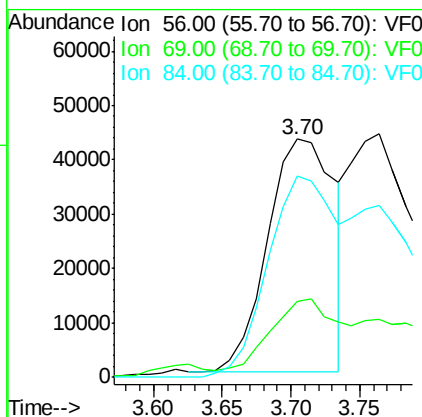
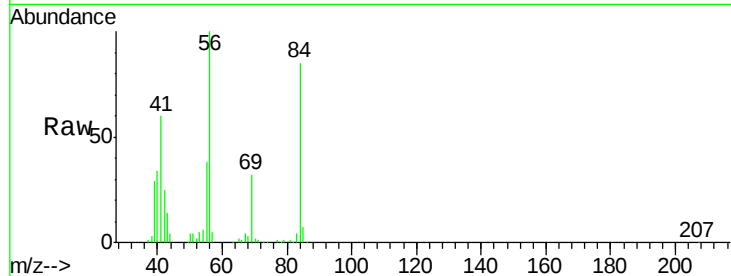




#31
Cyclohexane
Concen: 41.885 ug/l
RT: 3.70 min Scan# 312
Delta R.T. 0.01 min
Lab File: VF061963.D
Acq: 15 Mar 2019 16:12

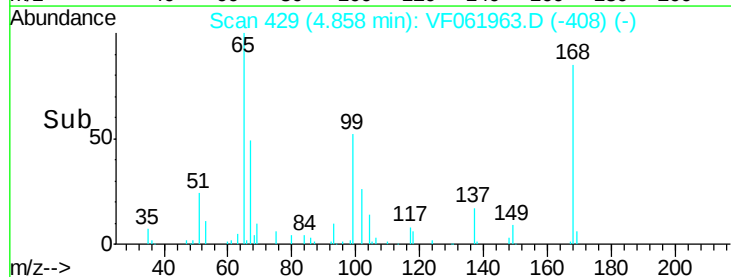
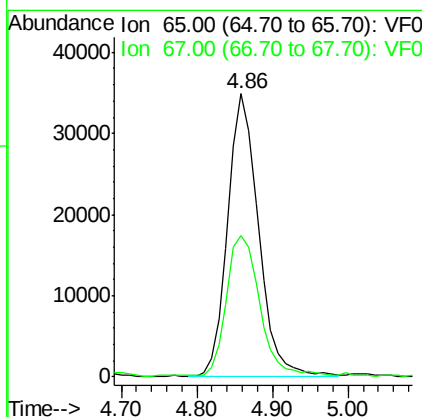
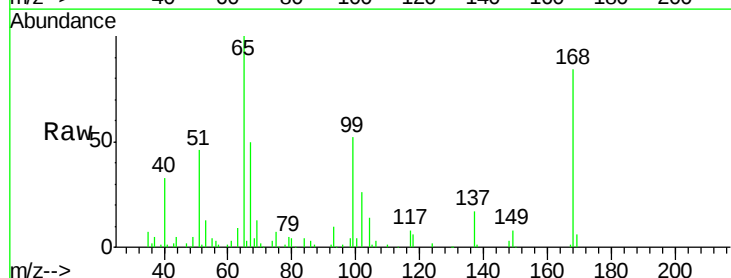
Instrument :
MSVOA_F
ClientSampleId :
A1-2-H1(2.5-3)

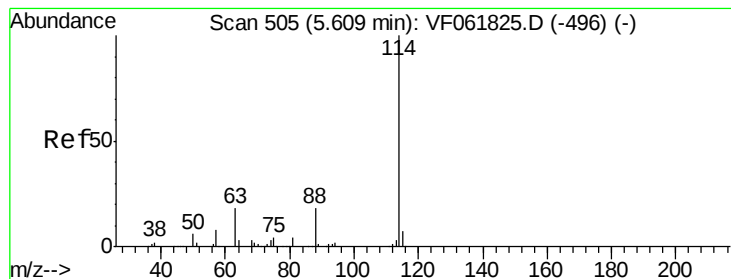
Tot Ion: 56 Resp: 144613
Ion Ratio Lower Upper
56 100
69 31.7 26.0 39.0
84 84.9 71.0 106.6



#33
1,2-Dichloroethane-d4
Concen: 60.325 ug/l
RT: 4.86 min Scan# 429
Delta R.T. 0.01 min
Lab File: VF061963.D
Acq: 15 Mar 2019 16:12

Tgt Ion: 65 Resp: 98855
Ion Ratio Lower Upper
65 100
67 49.7 0.0 108.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.00 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

A1-2-H1(2.5-3)

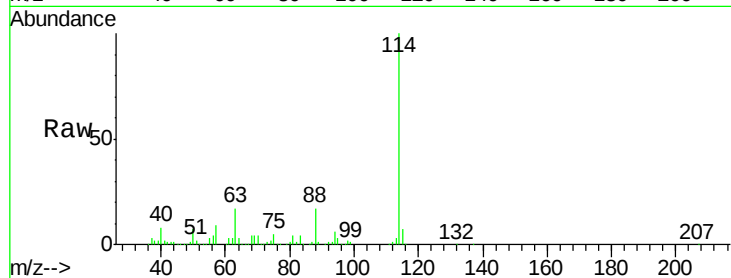
Tot Ion:114 Resp: 369460

Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.6

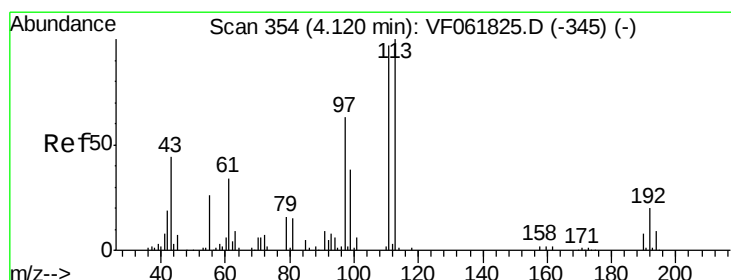
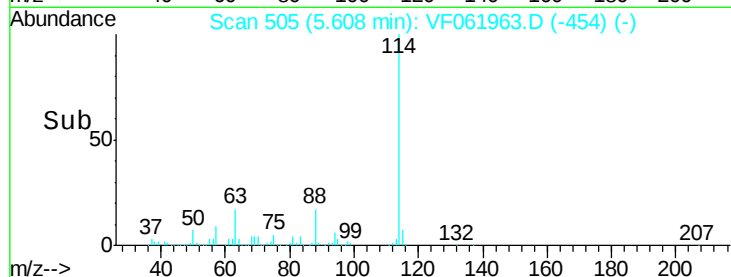
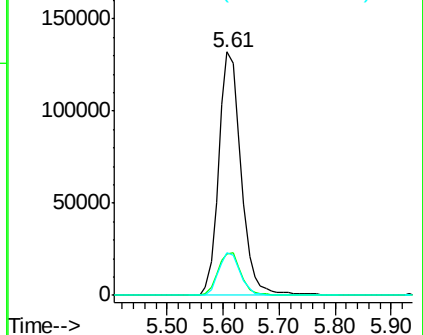
88 17.4 0.0 35.6



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



#35

Dibromofluoromethane

Concen: 52.333 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.01 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

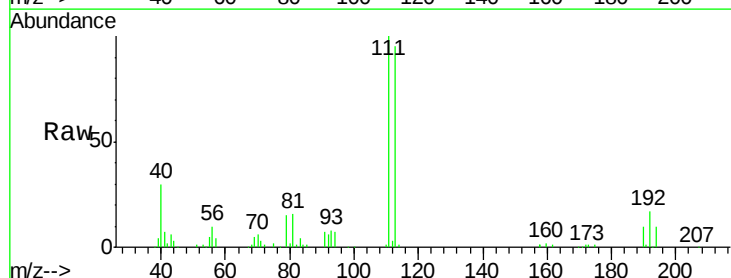
Tgt Ion:113 Resp: 134933

Ion Ratio Lower Upper

113 100

111 104.8 77.6 116.4

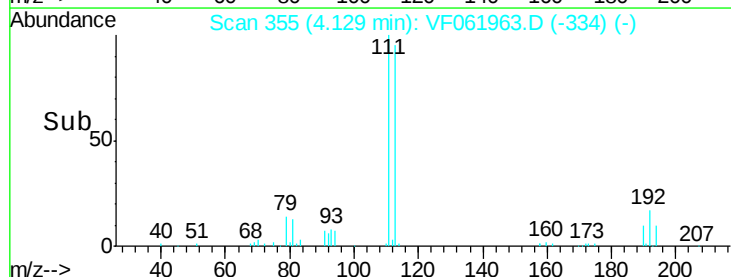
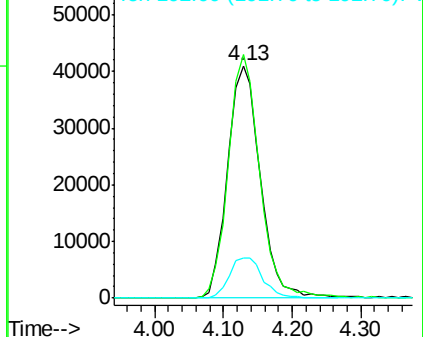
192 17.4 15.9 23.9

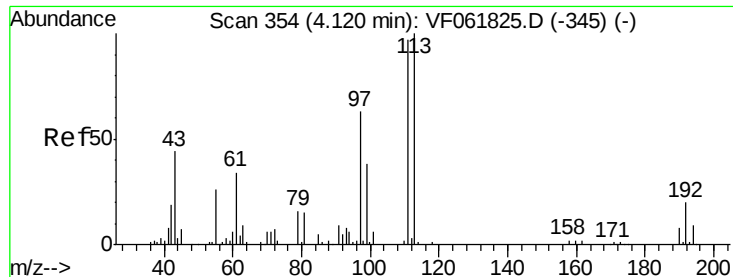


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

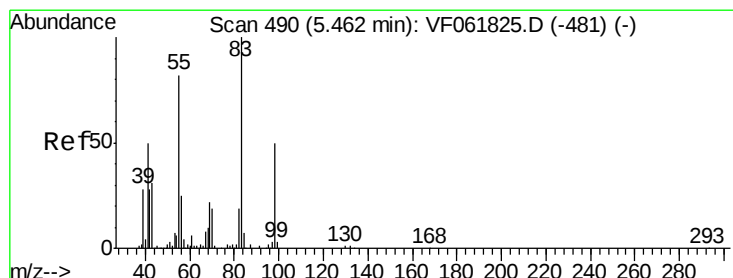
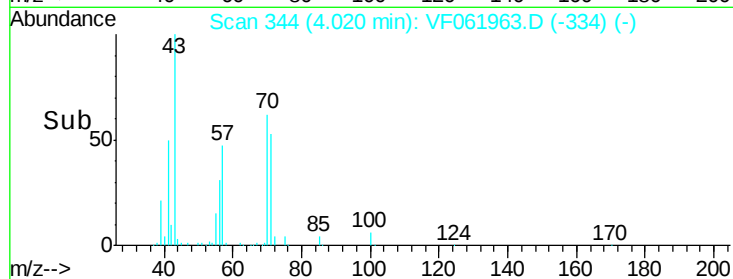
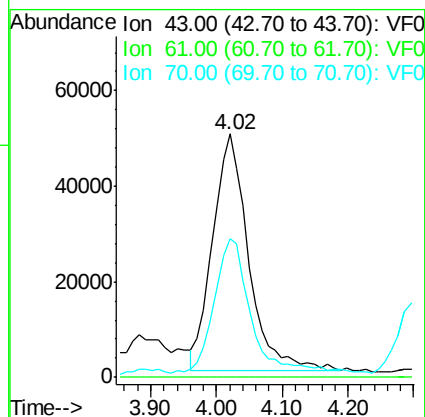
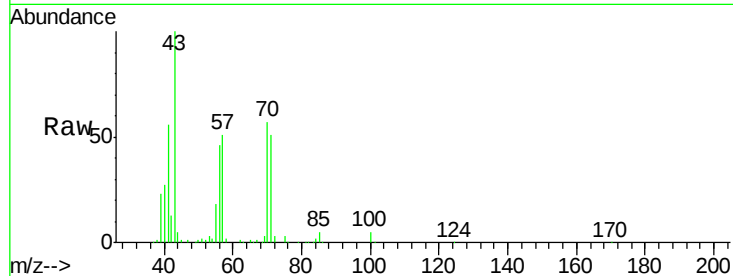




#37
Ethyl Acetate
Concen: 127.495 ug/l
RT: 4.02 min Scan# 344
Delta R.T. -0.10 min
Lab File: VF061963.D
Acq: 15 Mar 2019 16:12

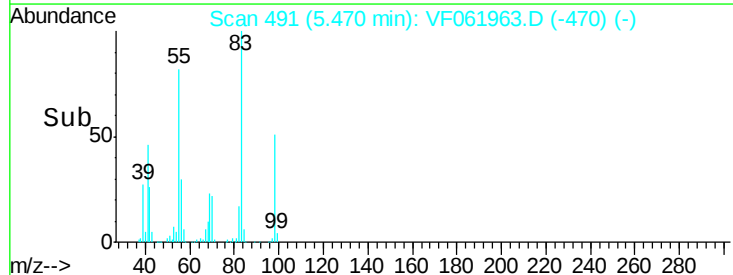
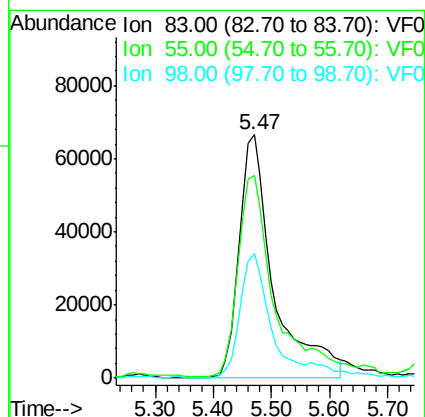
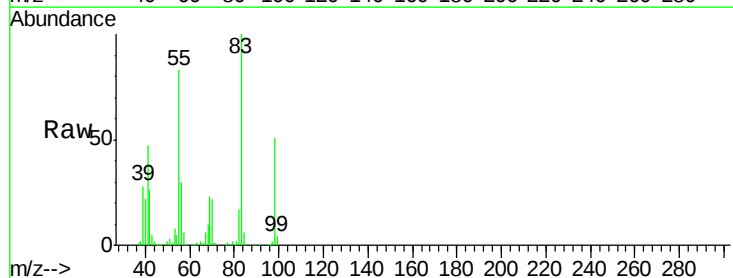
Instrument :
MSVOA_F
ClientSampleId :
A1-2-H1(2.5-3)

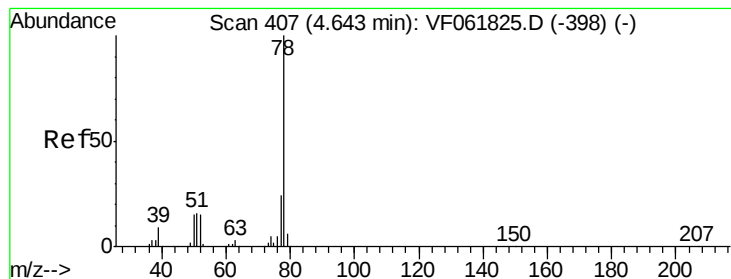
Tot Ion: 43 Resp: 186761
Ion Ratio Lower Upper
43 100
61 0.0 60.7 91.1#
70 57.1 10.6 15.8#



#39
Methylcyclohexane
Concen: 67.092 ug/l
RT: 5.47 min Scan# 491
Delta R.T. 0.01 min
Lab File: VF061963.D
Acq: 15 Mar 2019 16:12

Tgt Ion: 83 Resp: 276563
Ion Ratio Lower Upper
83 100
55 83.0 66.0 99.0
98 51.3 39.8 59.6





#40

Benzene

Concen: 15.887 ug/l

RT: 4.65 min Scan# 408

Delta R.T. 0.01 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

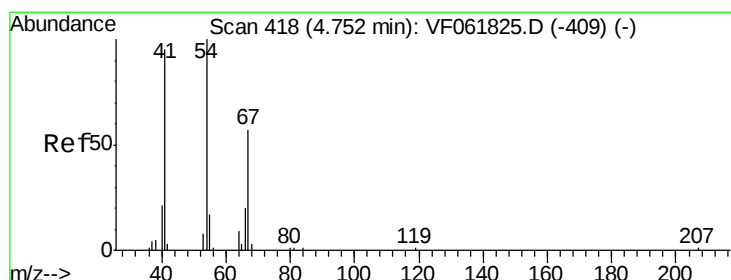
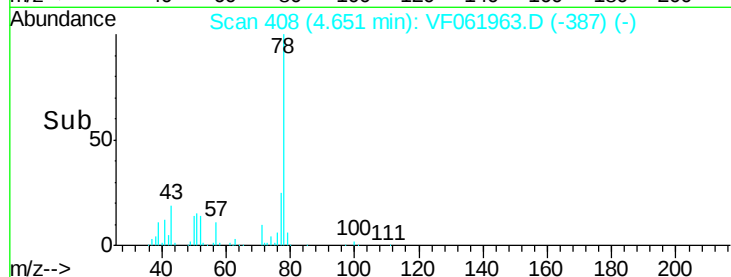
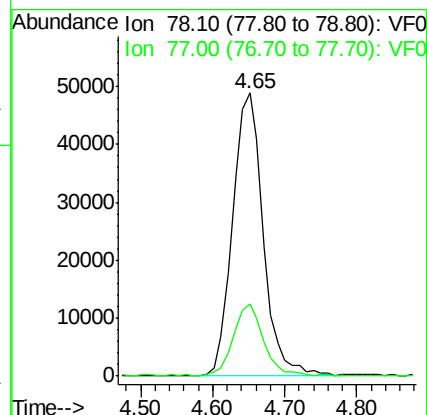
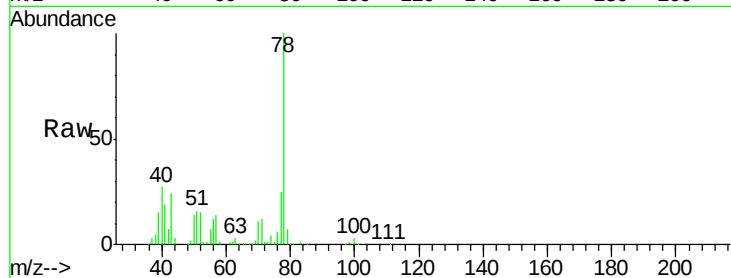
A1-2-H1(2.5-3)

Tot Ion: 78 Resp: 144929

Ion Ratio Lower Upper

78 100

77 25.3 19.5 29.3



#41

Methacrylonitrile

Concen: 172.781 ug/l

RT: 4.68 min Scan# 411

Delta R.T. -0.07 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Tgt Ion: 41 Resp: 138670

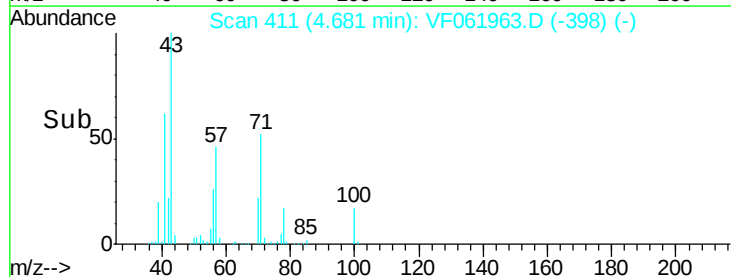
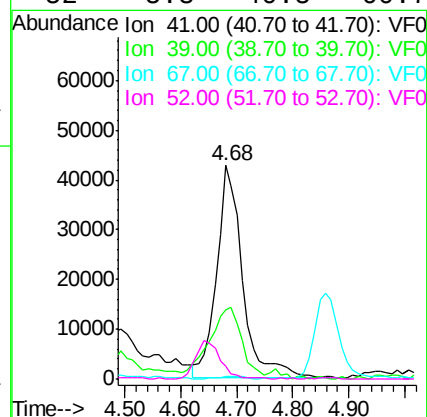
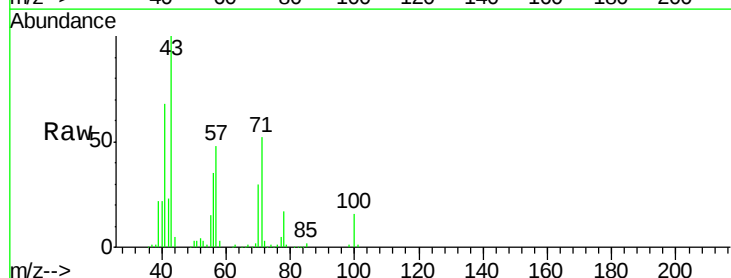
Ion Ratio Lower Upper

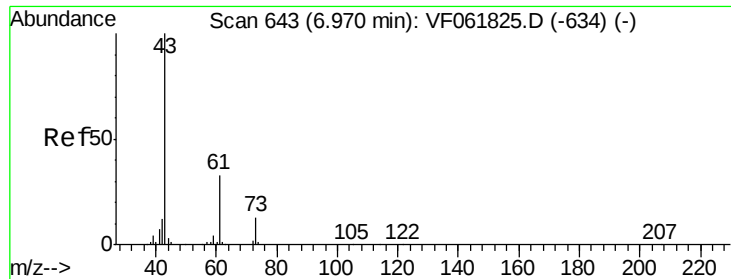
41 100

39 32.6 43.0 64.6#

67 1.2 47.8 71.8#

52 5.8 40.5 60.7#





#43

Isopropyl Acetate

Concen: 1.935 ug/l

RT: 7.05 min Scan# 651

Delta R.T. 0.08 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

A1-2-H1(2.5-3)

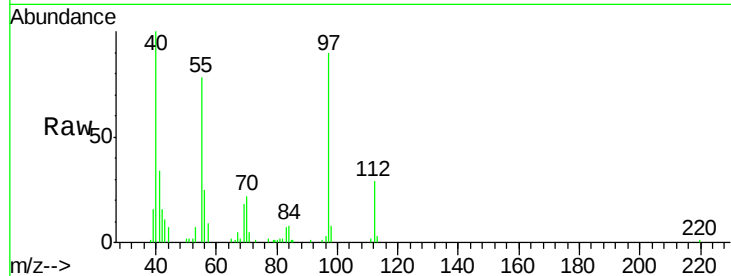
Tot Ion: 43 Resp: 3494

Ion Ratio Lower Upper

43 100

61 0.0 26.1 39.1#

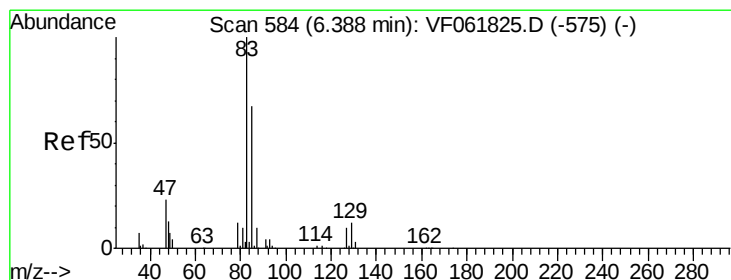
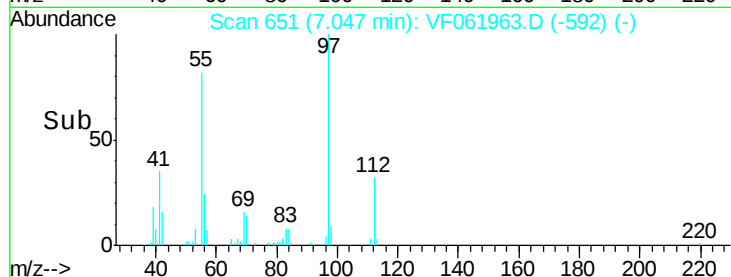
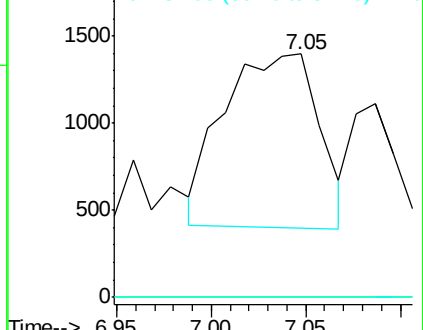
87 0.0 0.0 0.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#47

Bromodichloromethane

Concen: 1.298 ug/l

RT: 6.35 min Scan# 580

Delta R.T. -0.04 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

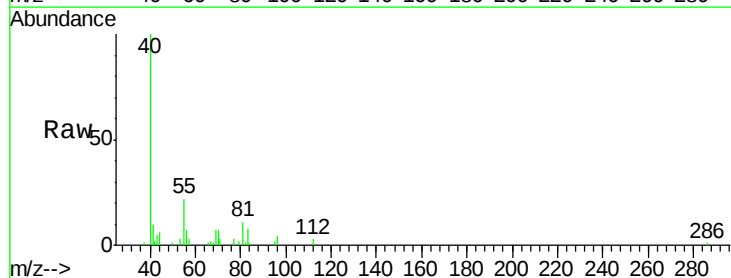
Tgt Ion: 83 Resp: 3914

Ion Ratio Lower Upper

83 100

85 0.0 53.6 80.4#

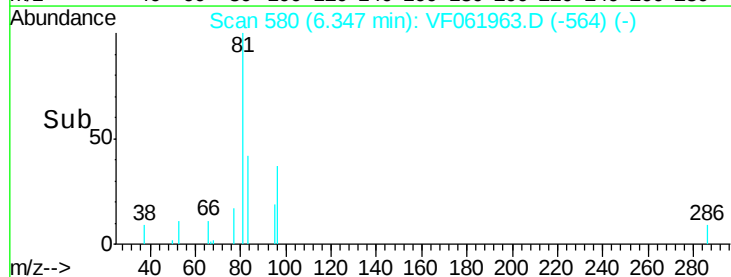
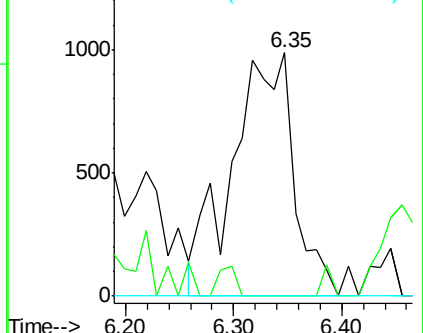
127 0.0 8.1 12.1#

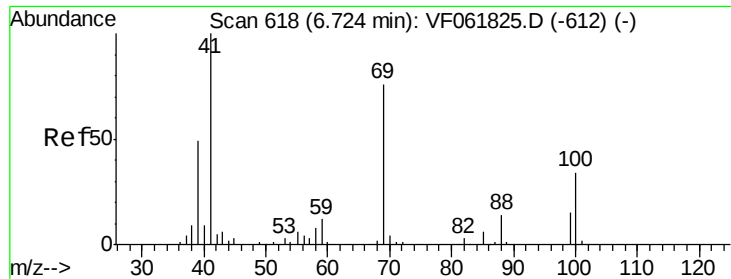


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

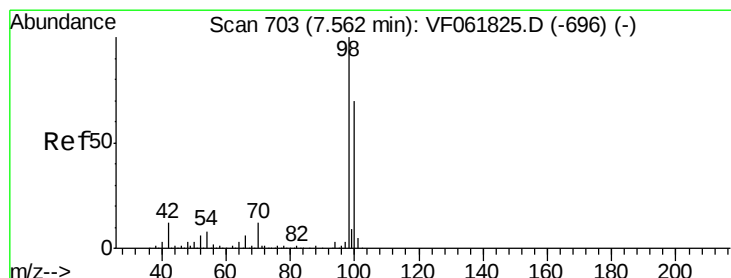
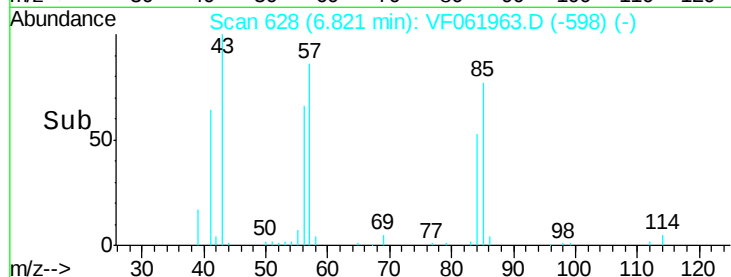
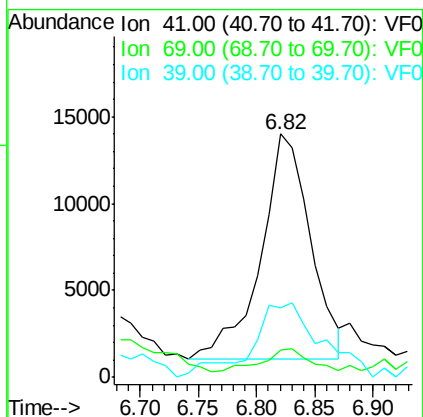
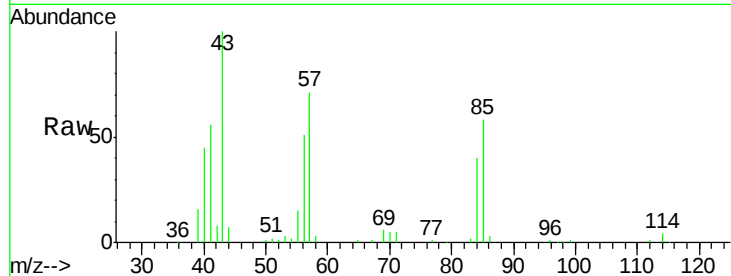




#48
Methvl methacrylate
Concen: 33.466 ug/l
RT: 6.82 min Scan# 628
Delta R.T. 0.10 min
Lab File: VF061963.D
Acq: 15 Mar 2019 16:12

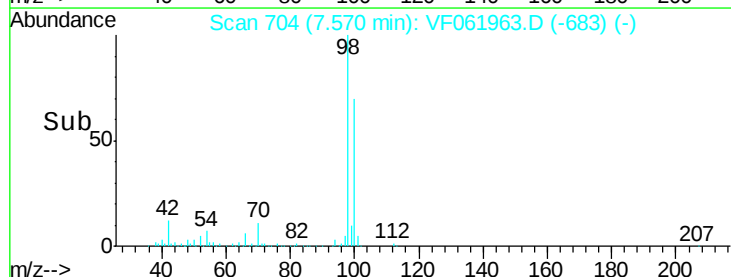
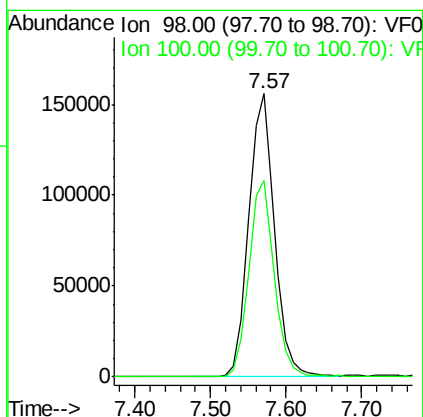
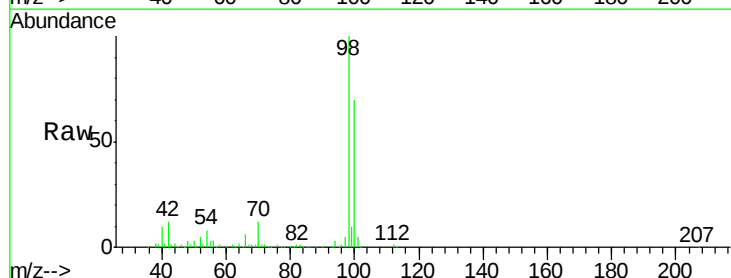
Instrument :
MSVOA_F
ClientSampleId :
A1-2-H1(2.5-3)

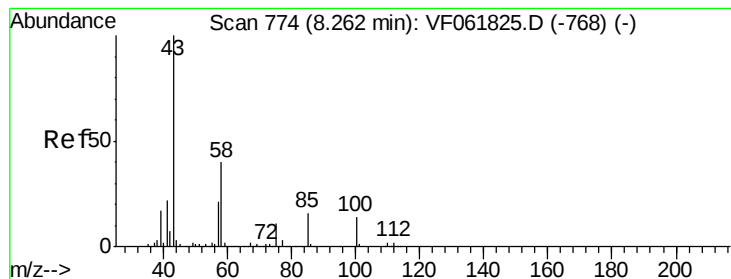
Tot Ion: 41 Resp: 38244
Ion Ratio Lower Upper
41 100
69 11.4 60.4 90.6#
39 28.5 39.7 59.5#



#50
Toluene-d8
Concen: 48.441 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF061963.D
Acq: 15 Mar 2019 16:12

Tgt Ion: 98 Resp: 371233
Ion Ratio Lower Upper
98 100
100 69.5 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 11.946 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.04 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

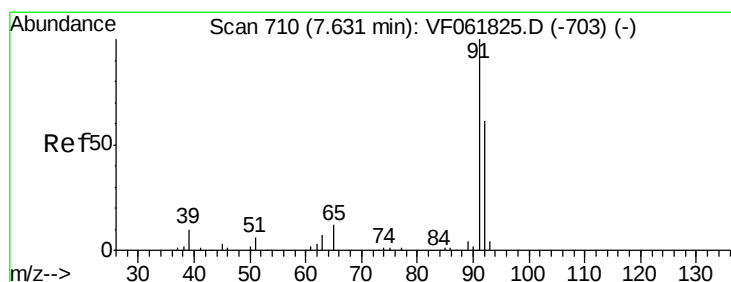
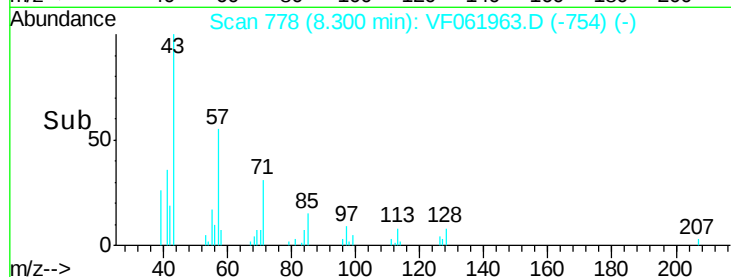
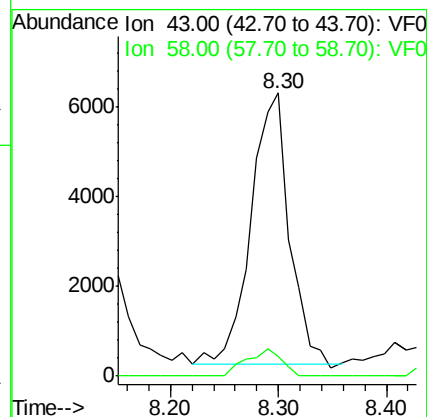
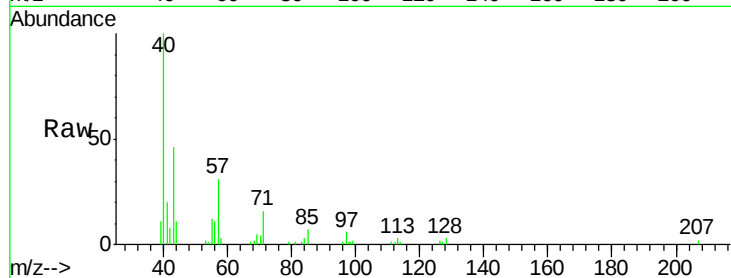
A1-2-H1(2.5-3)

Tot Ion: 43 Resp: 14908

Ion Ratio Lower Upper

43 100

58 7.1 31.8 47.8#



#52

Toluene

Concen: 2.126 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF061963.D

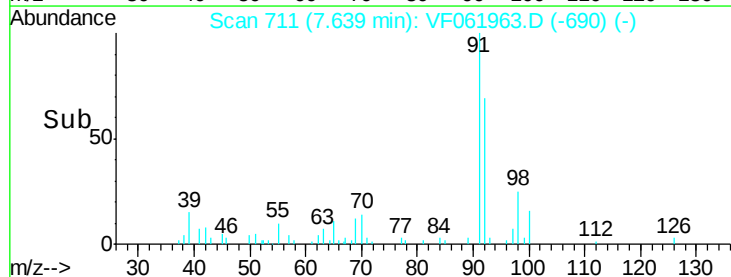
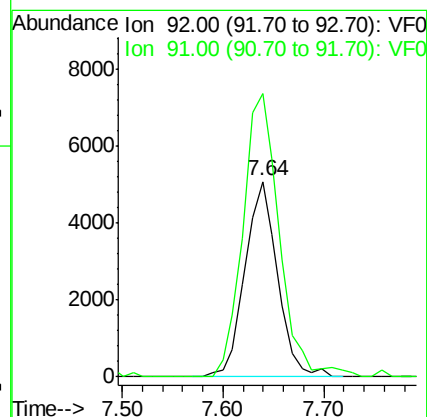
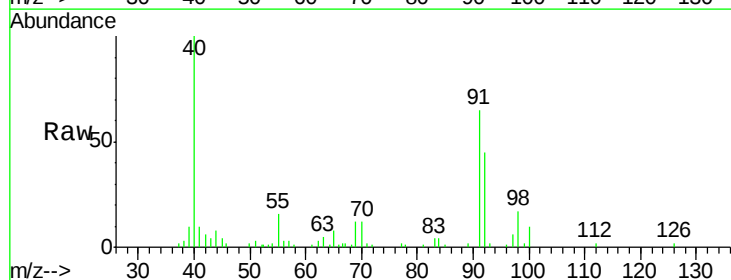
Acq: 15 Mar 2019 16:12

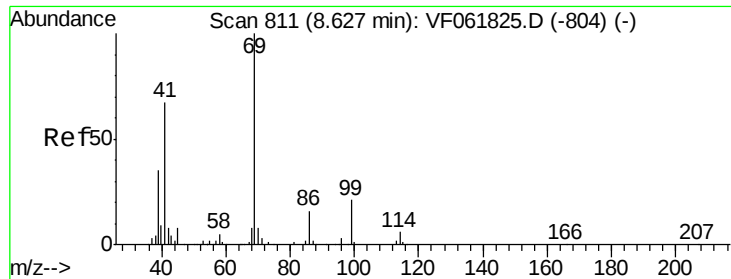
Tgt Ion: 92 Resp: 11474

Ion Ratio Lower Upper

92 100

91 144.7 132.0 198.0





#56

Ethyl methacrylate

Concen: 10.341 ug/l

RT: 8.63 min Scan# 812

Delta R.T. 0.01 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

A1-2-H1(2.5-3)

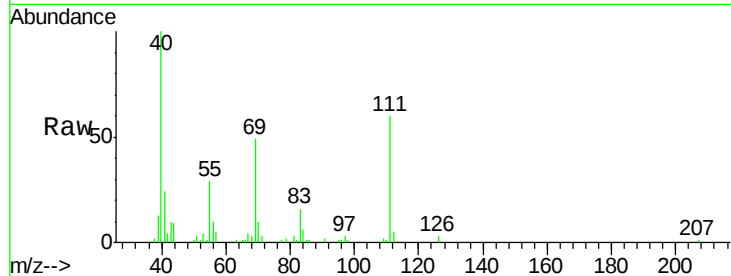
Tot Ion: 69 Resp: 18121

Ion Ratio Lower Upper

69 100

41 49.5 53.9 80.9#

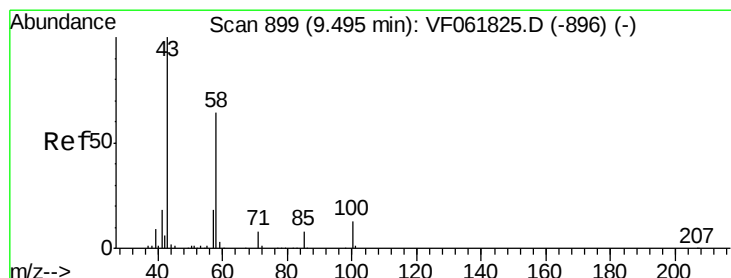
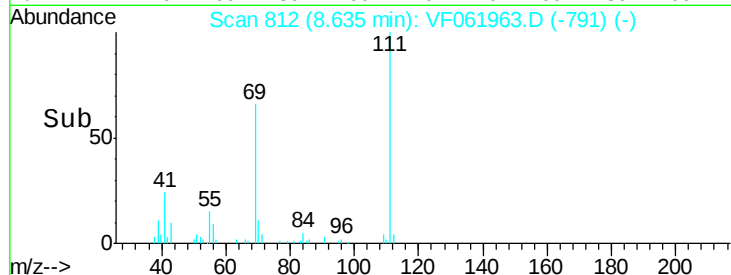
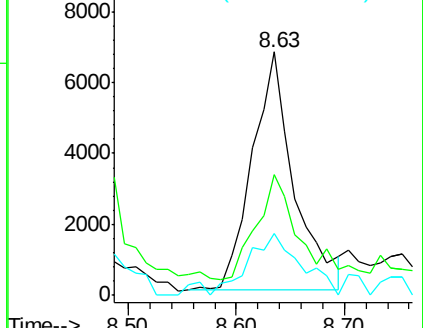
39 25.5 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#59

2-Hexanone

Concen: 2.199 ug/l

RT: 9.52 min Scan# 902

Delta R.T. 0.03 min

Lab File: VF061963.D

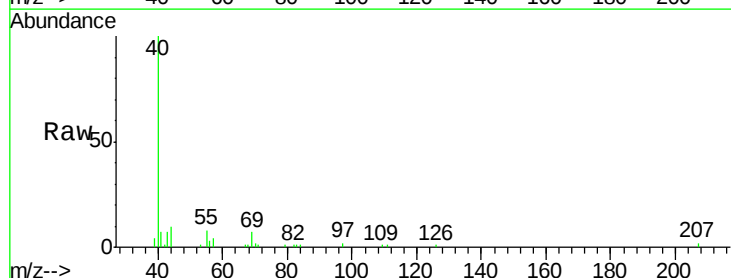
Acq: 15 Mar 2019 16:12

Tgt Ion: 43 Resp: 1980

Ion Ratio Lower Upper

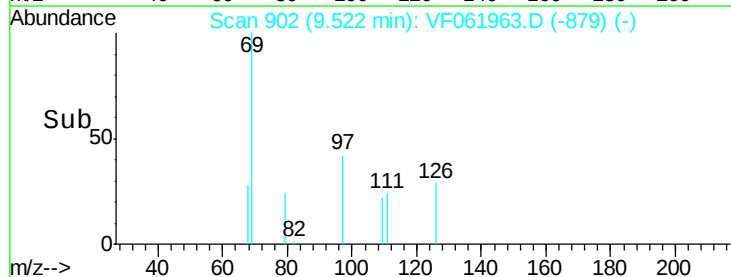
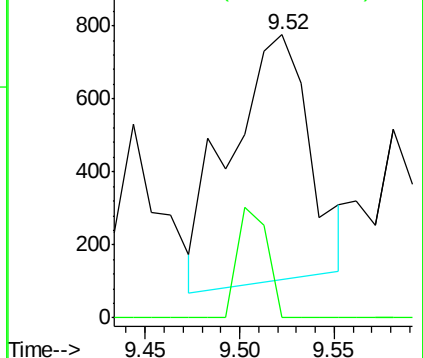
43 100

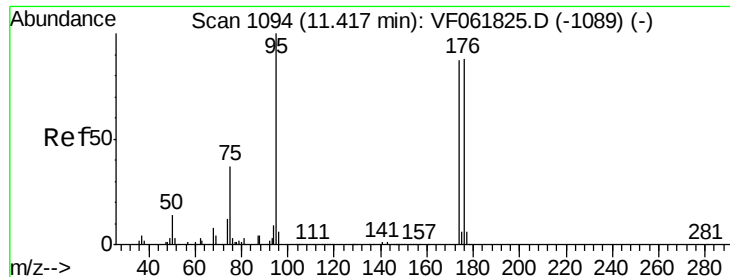
58 0.0 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 53.641 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

A1-2-H1(2.5-3)

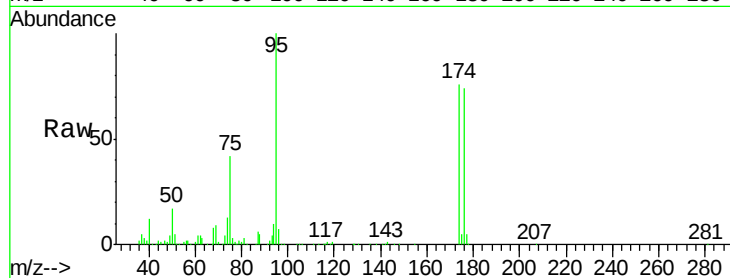
Tot Ion: 95 Resp: 161031

Ion Ratio Lower Upper

95 100

174 75.5 0.0 174.0

176 74.4 0.0 175.2

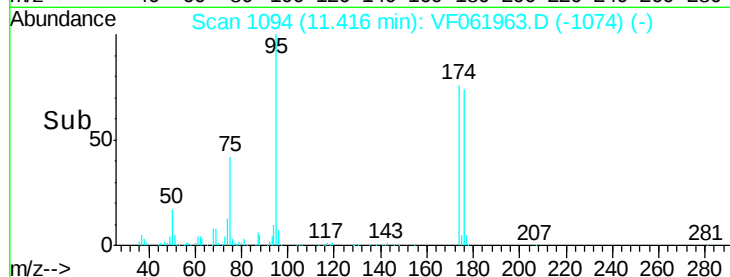


Abundance Ion 95.00 (94.70 to 95.70): VF061825.D (-1089) (-)

Ion 174.00 (173.70 to 174.70): VF061825.D (-1089) (-)

Ion 176.00 (175.70 to 176.70): VF061825.D (-1089) (-)

Time-->

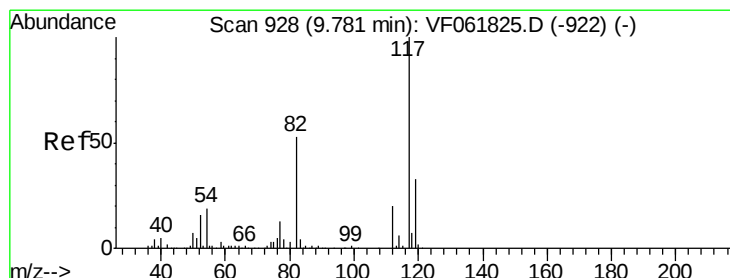


Abundance Ion 95.00 (94.70 to 95.70): VF061963.D (-1074) (-)

Ion 174.00 (173.70 to 174.70): VF061963.D (-1074) (-)

Ion 176.00 (175.70 to 176.70): VF061963.D (-1074) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

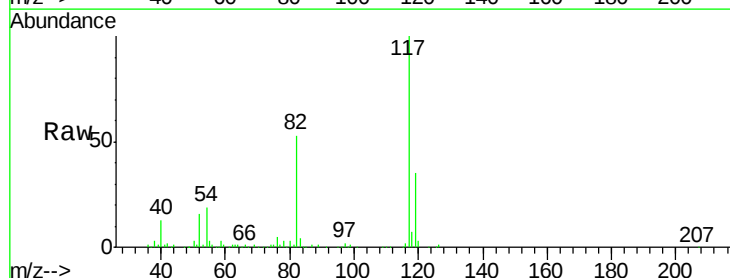
Tgt Ion: 117 Resp: 326477

Ion Ratio Lower Upper

117 100

82 53.2 42.6 63.8

119 34.7 26.0 39.0

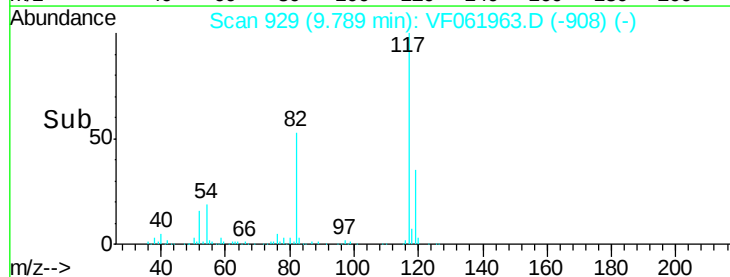


Abundance Ion 117.00 (116.70 to 117.70): VF061825.D (-922) (-)

Ion 82.00 (81.70 to 82.70): VF061825.D (-922) (-)

Ion 119.00 (118.70 to 119.70): VF061825.D (-922) (-)

Time-->

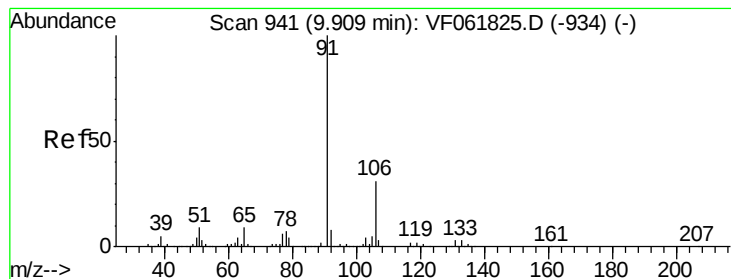


Abundance Ion 117.00 (116.70 to 117.70): VF061963.D (-908) (-)

Ion 82.00 (81.70 to 82.70): VF061963.D (-908) (-)

Ion 119.00 (118.70 to 119.70): VF061963.D (-908) (-)

Time-->



#67

Ethyl Benzene

Concen: 1.653 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.00 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

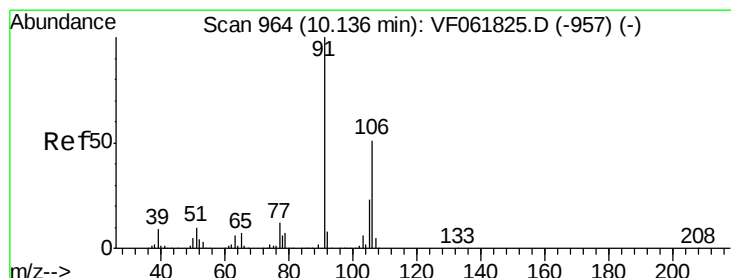
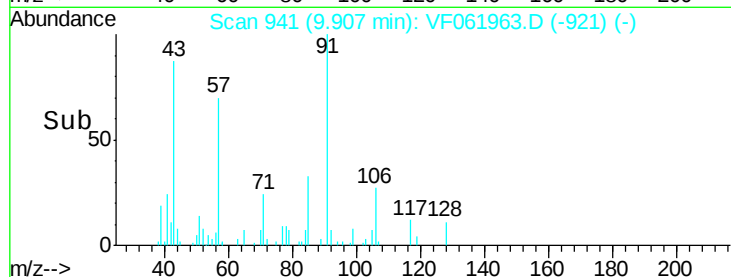
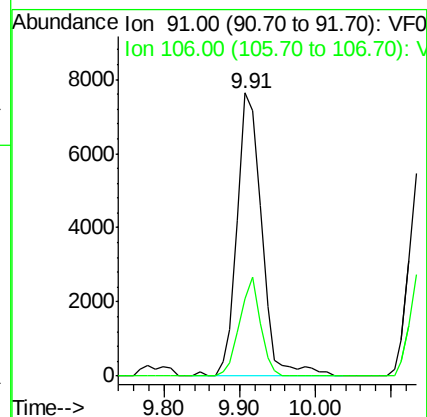
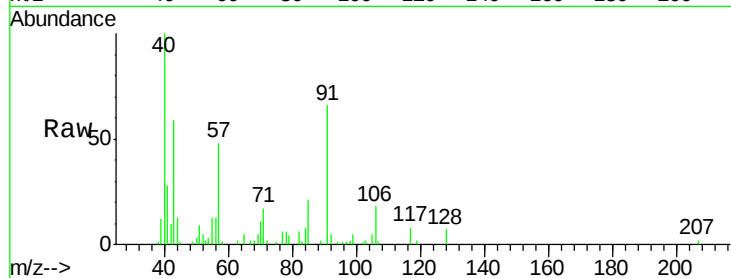
A1-2-H1(2.5-3)

Tot Ion: 91 Resp: 17185

Ion Ratio Lower Upper

91 100

106 27.2 25.0 37.4



#68

m/p-Xylenes

Concen: 2.113 ug/l

RT: 10.14 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF061963.D

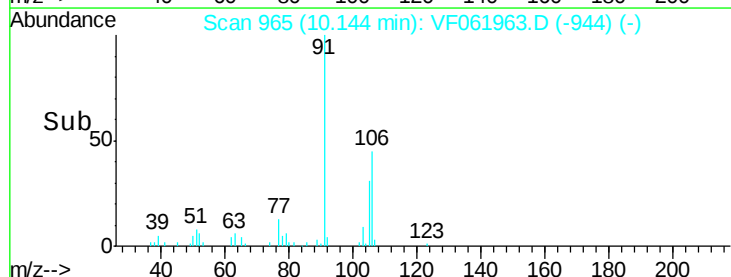
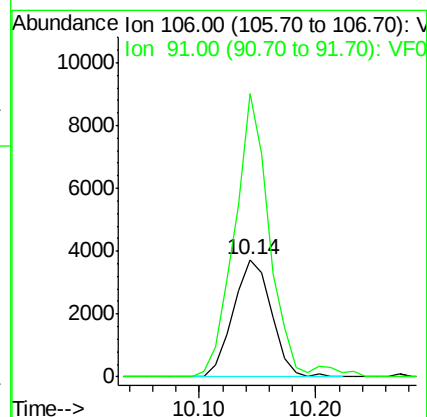
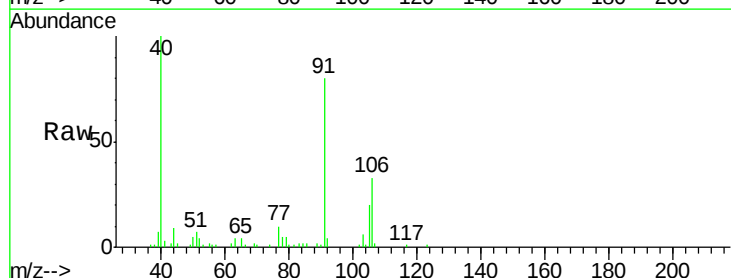
Acq: 15 Mar 2019 16:12

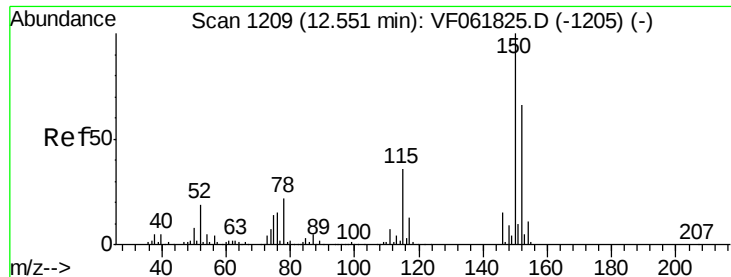
Tgt Ion: 106 Resp: 8416

Ion Ratio Lower Upper

106 100

91 241.8 157.5 236.3#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

A1-2-H1(2.5-3)

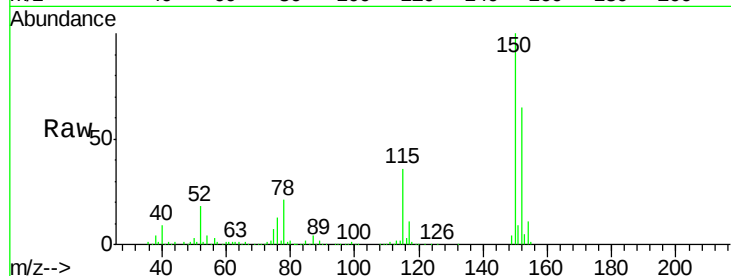
Tot Ion:152 Resp: 178538

Ion Ratio Lower Upper

152 100

115 55.4 27.7 83.1

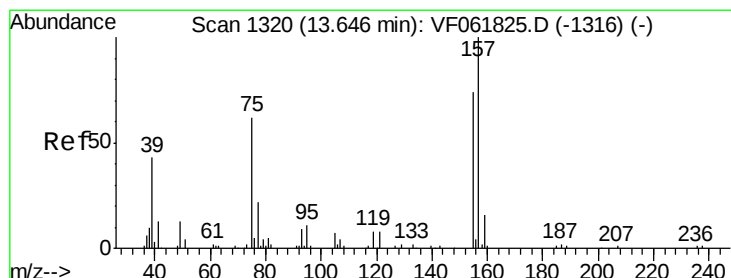
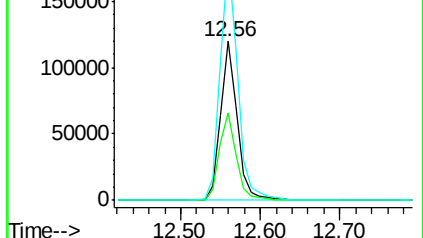
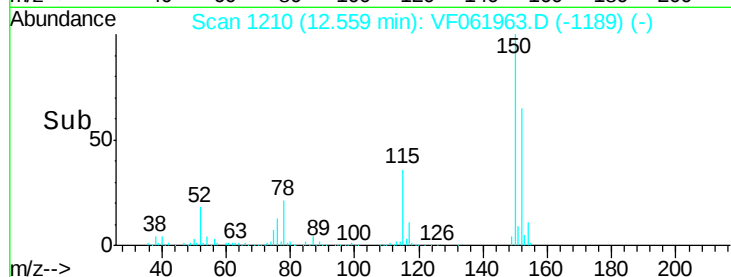
150 153.4 0.0 304.2



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.934 ug/l

RT: 13.75 min Scan# 1331

Delta R.T. 0.11 min

Lab File: VF061963.D

Acq: 15 Mar 2019 16:12

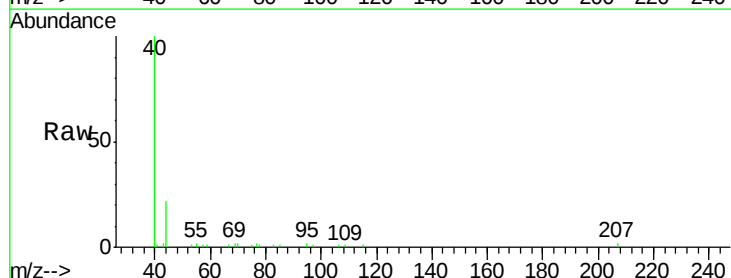
Tgt Ion: 75 Resp: 64

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): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

