

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\
 Data File : VF061962.D
 Acq On : 15 Mar 2019 15:44
 Operator : VA/AP
 Sample : K1928-05
 Misc : 6.81g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 A1-2(3-3.5)

Quant Time: Mar 15 23:17:04 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	237214	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	402908	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	332020	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	197465	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	95696	55.40	ug/l	0.00
Spiked Amount			Recovery	=	110.80%	
35) Dibromofluoromethane	4.13	113	128391	45.66	ug/l	0.00
Spiked Amount			Recovery	=	91.32%	
50) Toluene-d8	7.57	98	361207	43.22	ug/l	0.00
Spiked Amount			Recovery	=	86.44%	
62) 4-Bromofluorobenzene	11.41	95	151945	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	

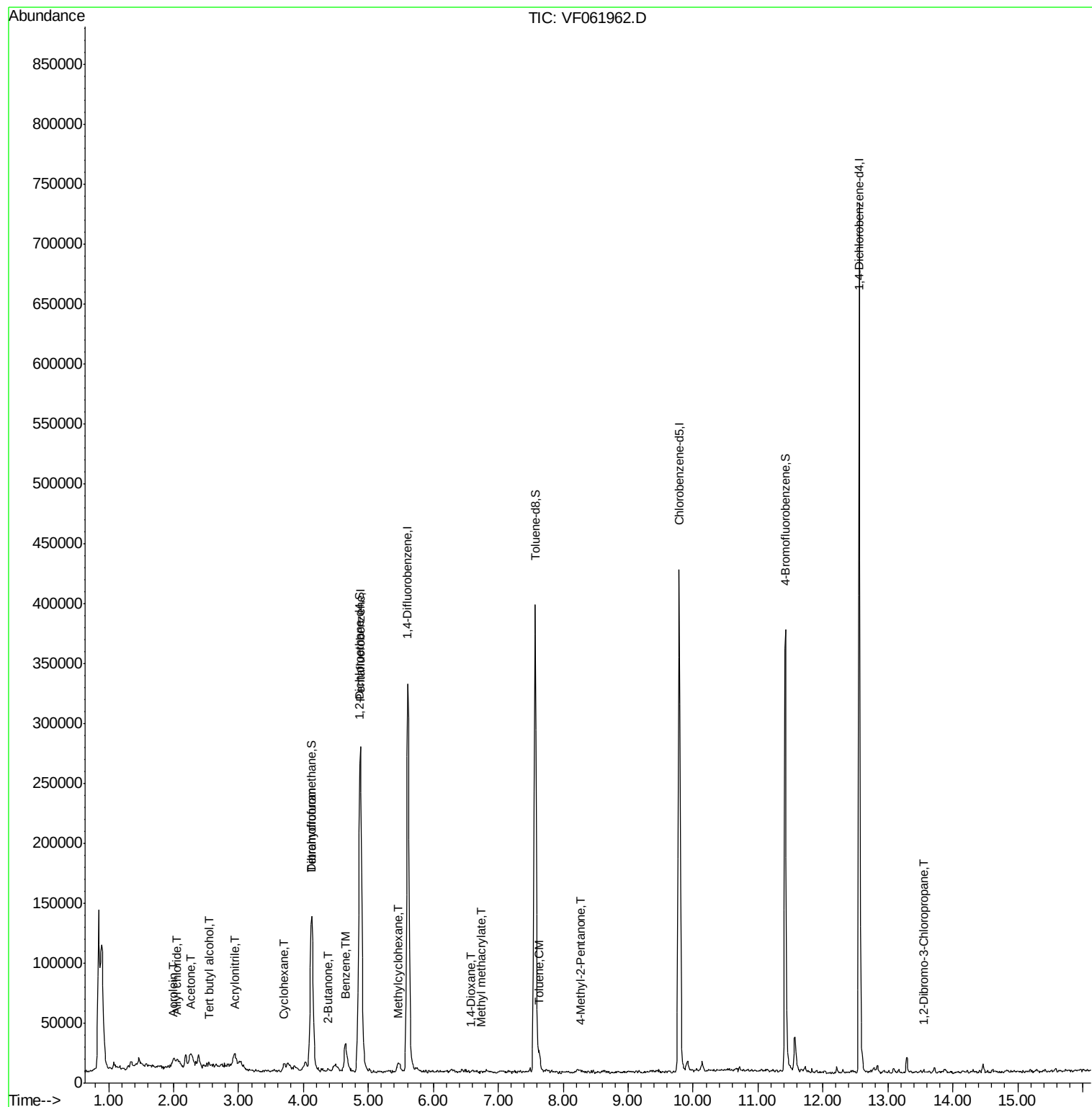
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	149	1.520	ug/l #	1
13) Acrolein	1.98	56	665	5.352	ug/l #	41
14) Allyl chloride	2.06	41	2585	1.157	ug/l #	70
15) Acrylonitrile	2.93	53	948	3.036	ug/l #	77
16) Acetone	2.26	43	3984	11.010	ug/l #	81
20) Methylene Chloride	2.20	84	3098	Below Cal	#	71
25) 2-Butanone	4.36	43	1642	2.231	ug/l #	56
29) Tetrahydrofuran	4.12	42	1448	4.561	ug/l #	89
31) Cyclohexane	3.70	56	5058	1.390	ug/l #	77
39) Methylcyclohexane	5.46	83	5447	1.212	ug/l	90
40) Benzene	4.64	78	28391	2.854	ug/l	91
48) Methyl methacrylate	6.75	41	1292	1.037	ug/l #	55
49) 1,4-Dioxane	6.57	88	89	7.812	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	1665	1.223	ug/l	94
52) Toluene	7.64	92	7573	1.287	ug/l	84
92) 1,2-Dibromo-3-Chloropropan	13.55	75	60	3.909	ug/l #	1

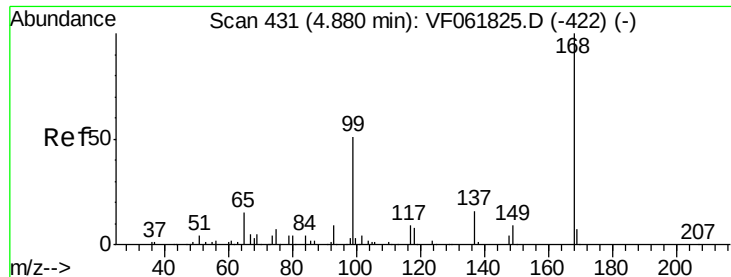
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

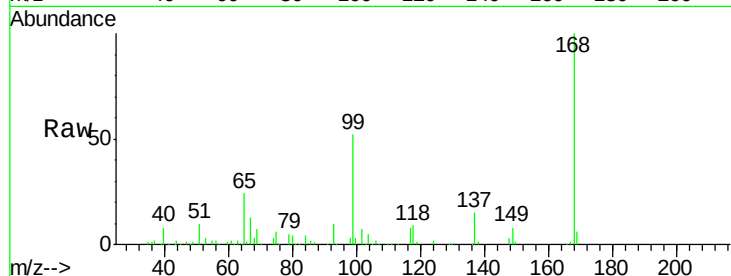
A1-2(3-3.5)

Tot Ion:168 Resp: 237214

Ion Ratio Lower Upper

168 100

99 52.3 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

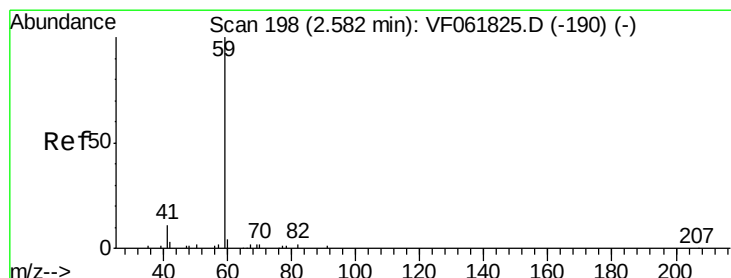
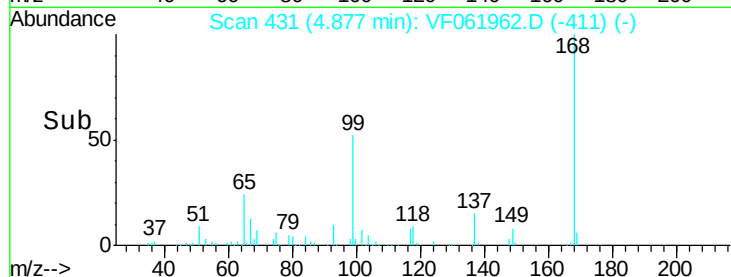
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.520 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF061962.D

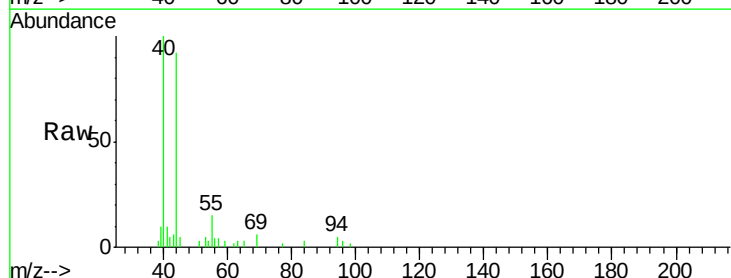
Acq: 15 Mar 2019 15:44

Tgt Ion: 59 Resp: 149

Ion Ratio Lower Upper

59 100

57 130.4 11.8 17.6#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

300

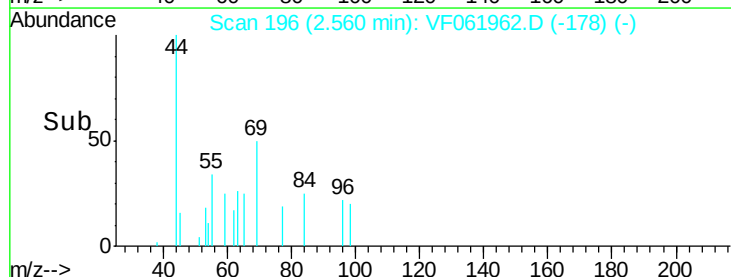
200

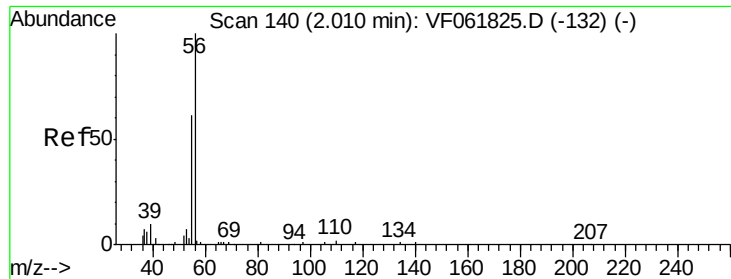
100

0

Time-->

2.52 2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 5.352 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.03 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

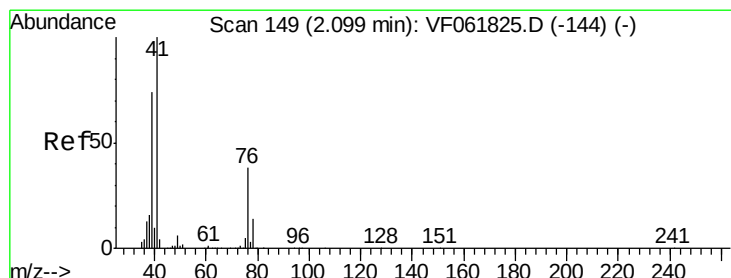
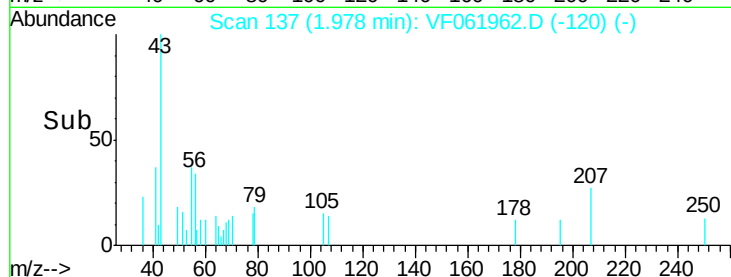
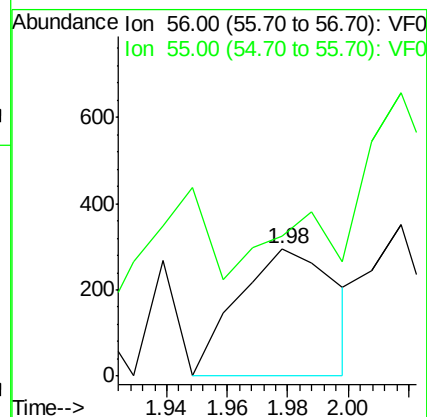
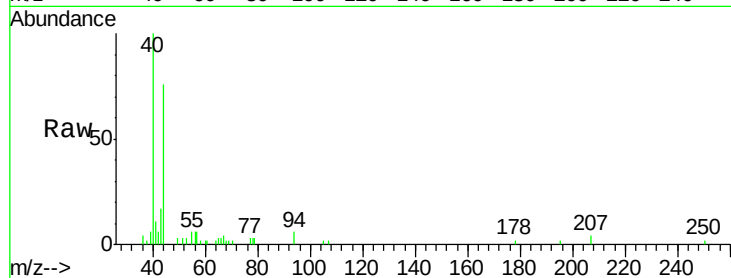
A1-2(3-3.5)

Tot Ion: 56 Resp: 665

Ion Ratio Lower Upper

56 100

55 110.2 51.3 76.9#



#14

Allyl chloride

Concen: 1.157 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.04 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

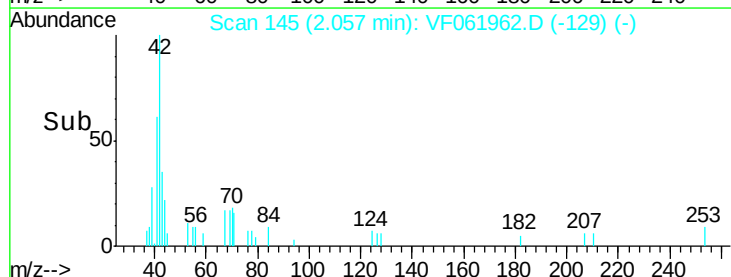
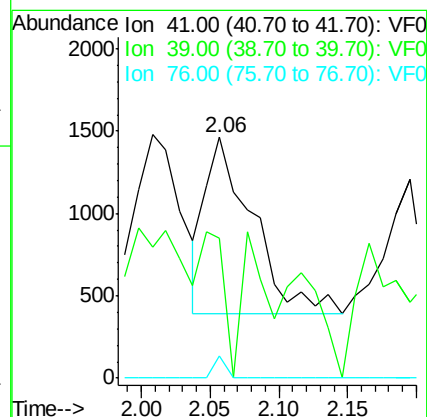
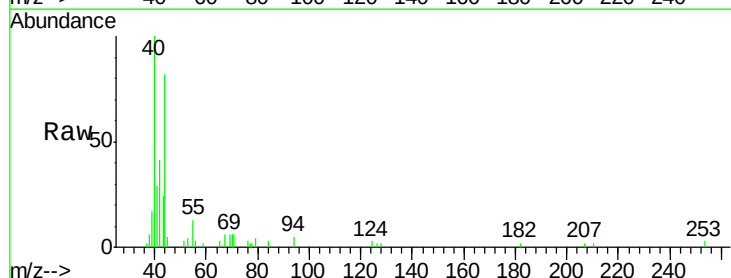
Tgt Ion: 41 Resp: 2585

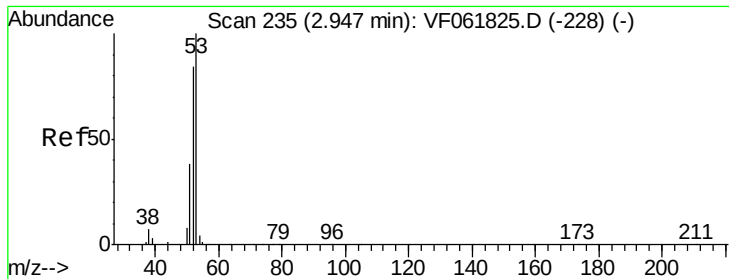
Ion Ratio Lower Upper

41 100

39 58.0 59.6 89.4#

76 9.2 32.3 48.5#





#15

Acrylonitrile

Concen: 3.036 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

A1-2(3-3.5)

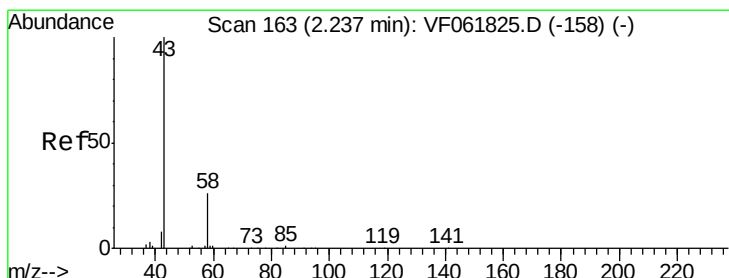
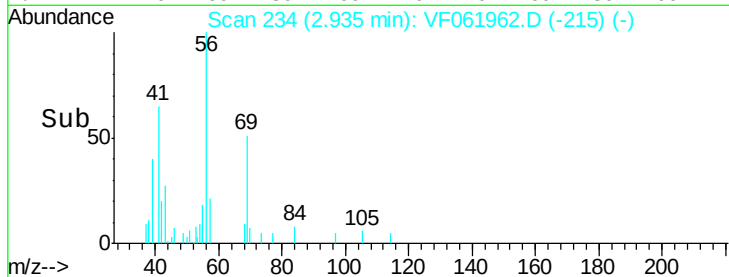
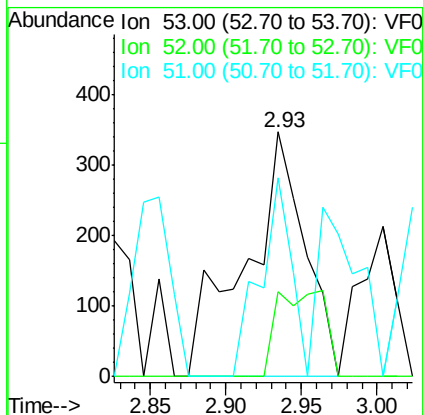
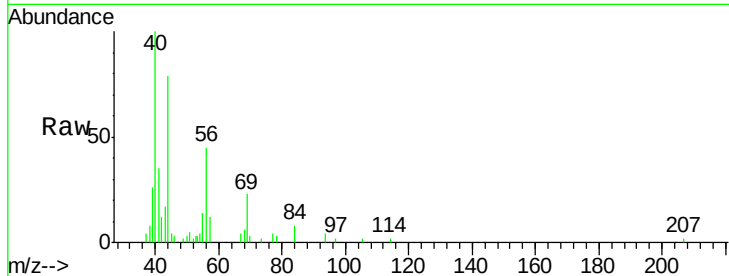
Tot Ion: 53 Resp: 948

Ion Ratio Lower Upper

53 100

52 85.0 67.4 101.0

51 81.3 30.7 46.1#



#16

Acetone

Concen: 11.010 ug/l

RT: 2.26 min Scan# 166

Delta R.T. 0.03 min

Lab File: VF061962.D

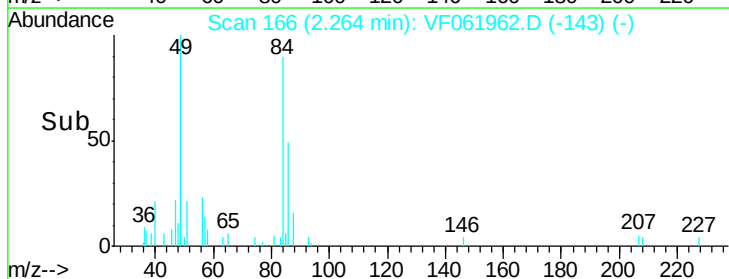
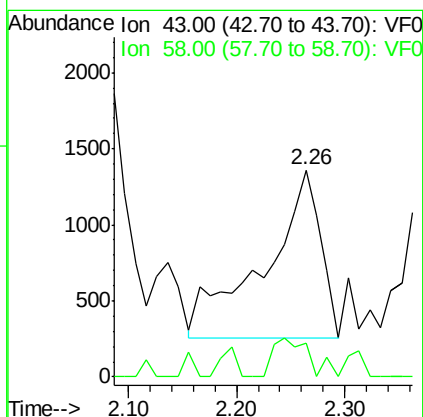
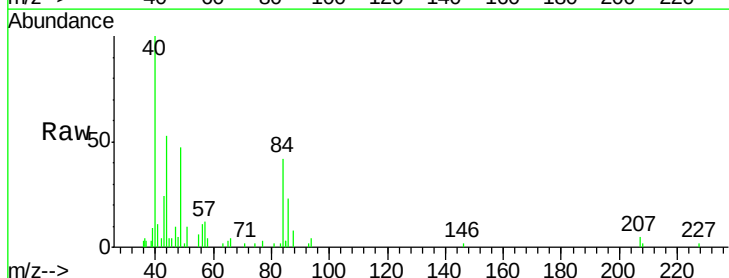
Acq: 15 Mar 2019 15:44

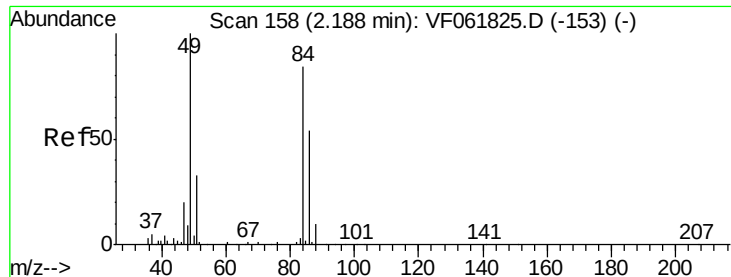
Tgt Ion: 43 Resp: 3984

Ion Ratio Lower Upper

43 100

58 16.0 20.3 30.5#

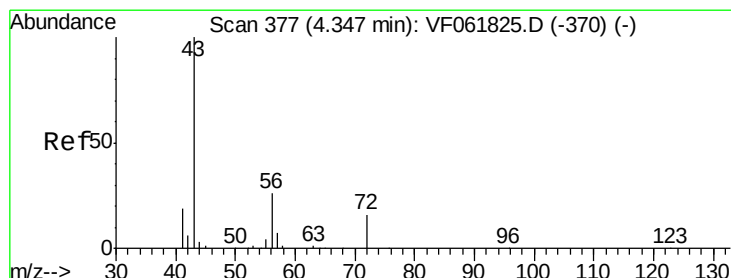
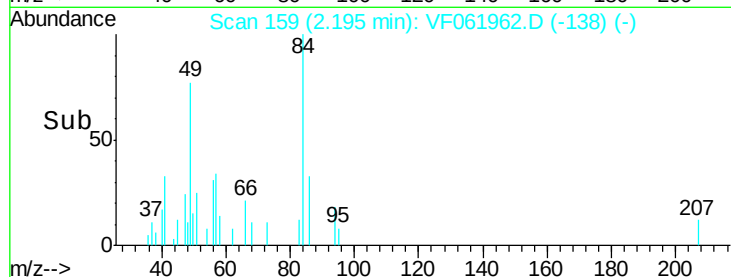
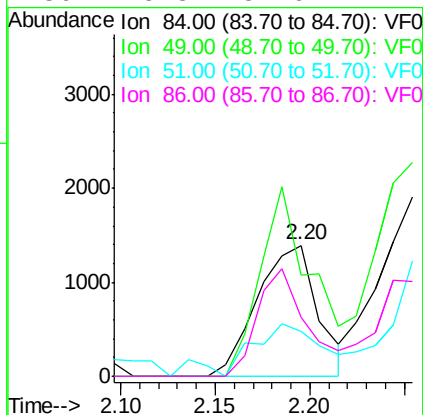
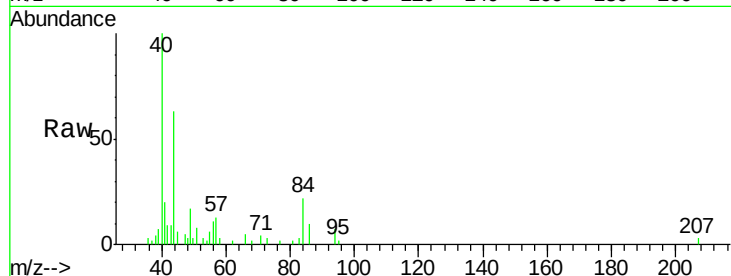




#20
Methylene Chloride
Concen: Below Cal
RT: 2.20 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF061962.D
Acq: 15 Mar 2019 15:44

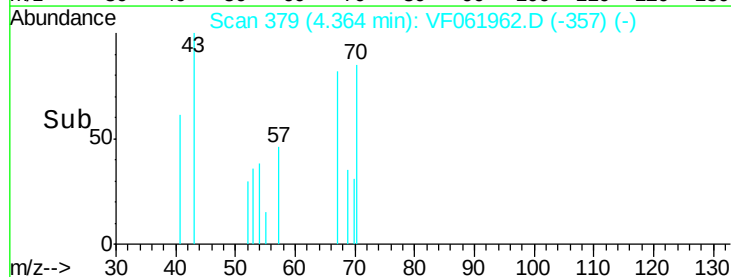
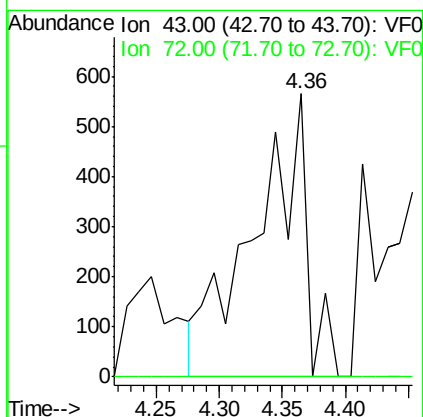
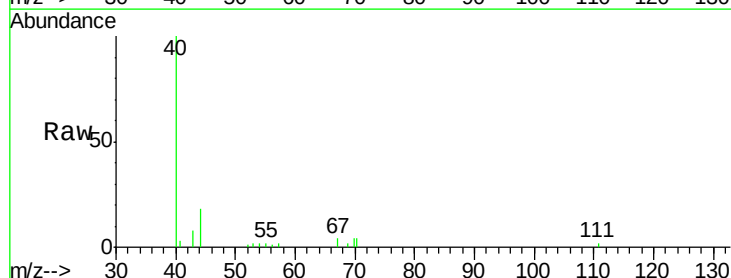
Instrument :
MSVOA_F
ClientSampleId :
A1-2(3-3.5)

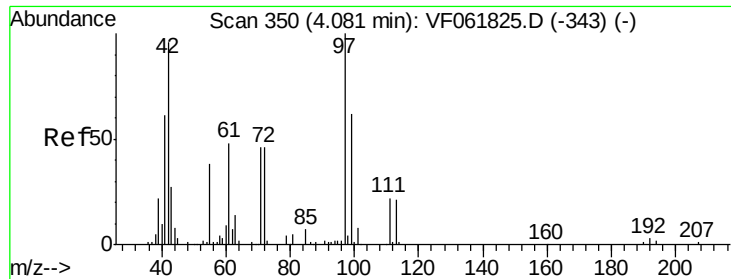
Tot Ion: 84 Resp: 3098
Ion Ratio Lower Upper
84 100
49 77.2 96.8 145.2#
51 34.7 31.8 47.6
86 45.3 51.6 77.4#



#25
2-Butanone
Concen: 2.231 ug/l
RT: 4.36 min Scan# 379
Delta R.T. 0.02 min
Lab File: VF061962.D
Acq: 15 Mar 2019 15:44

Tgt Ion: 43 Resp: 1642
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#





#29

Tetrahydrofuran

Concen: 4.561 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.04 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

A1-2(3-3.5)

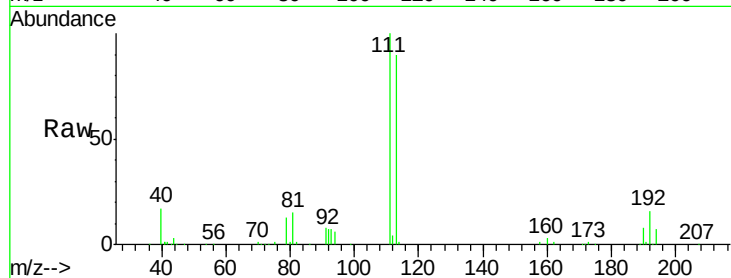
Tot Ion: 42 Resp: 1448

Ion Ratio Lower Upper

42 100

72 31.1 34.4 51.6#

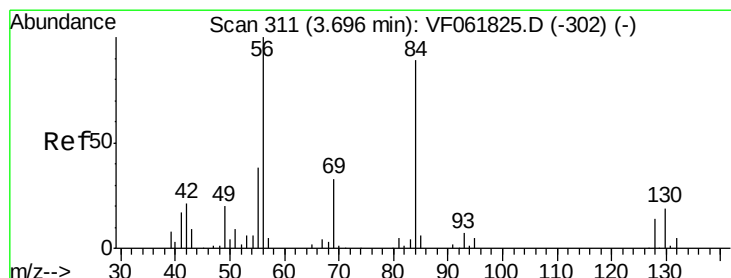
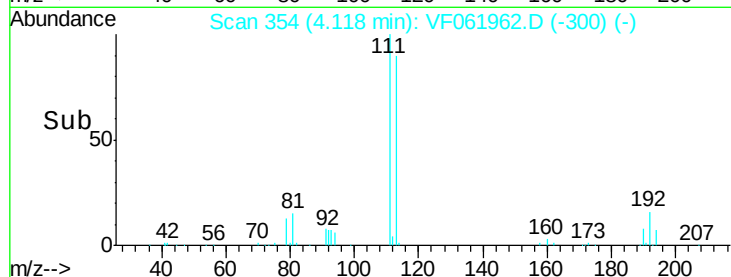
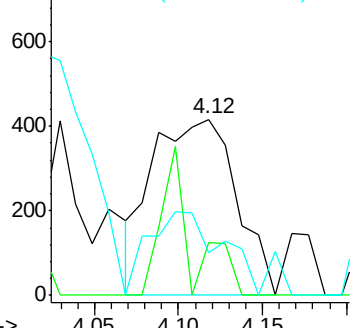
71 45.5 34.6 52.0



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#31

Cyclohexane

Concen: 1.390 ug/l

RT: 3.70 min Scan# 312

Delta R.T. 0.01 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

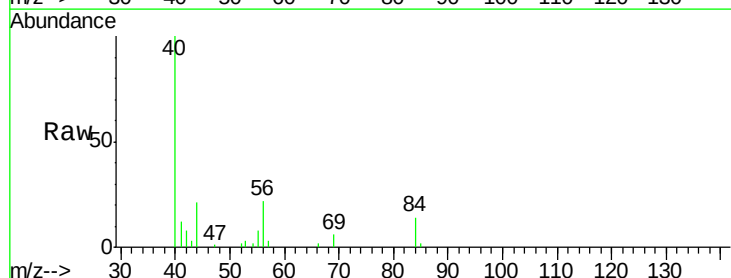
Tgt Ion: 56 Resp: 5058

Ion Ratio Lower Upper

56 100

69 25.5 26.0 39.0#

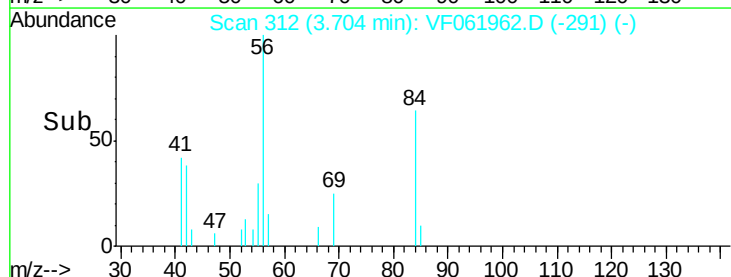
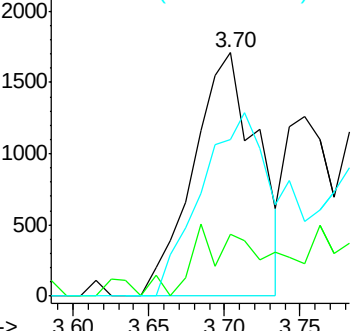
84 64.2 71.0 106.6#

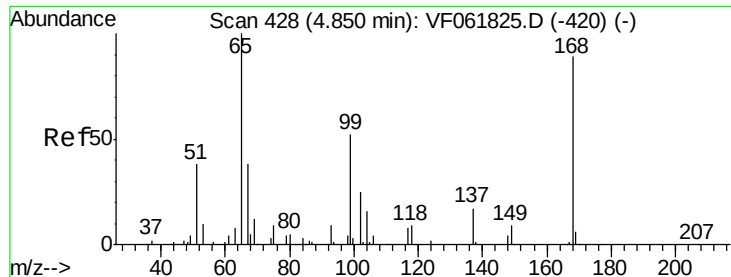


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 55.396 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

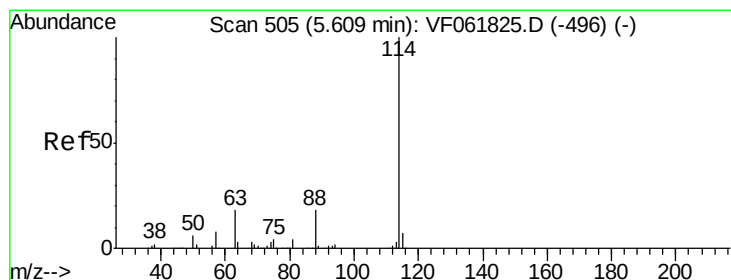
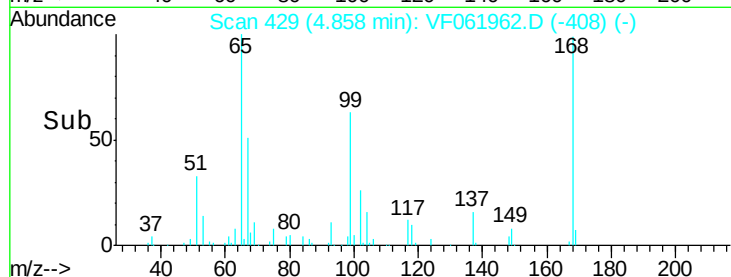
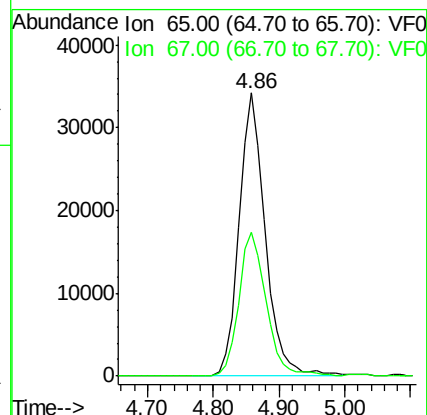
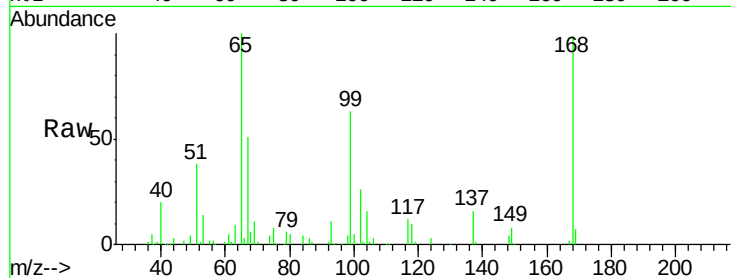
A1-2(3-3.5)

Tot Ion: 65 Resp: 95696

Ion Ratio Lower Upper

65 100

67 51.0 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: VF061962.D

Acq: 15 Mar 2019 15:44

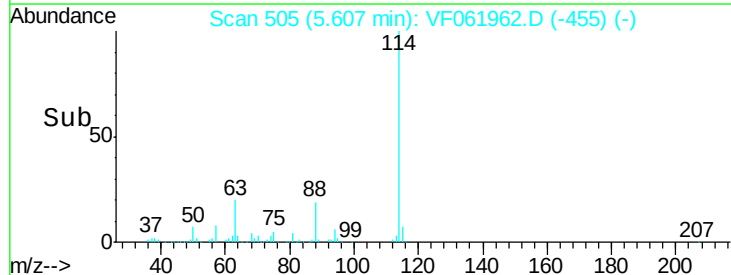
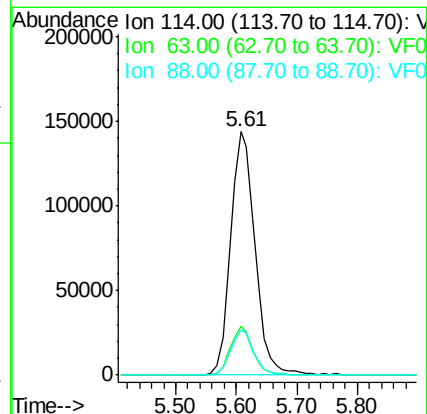
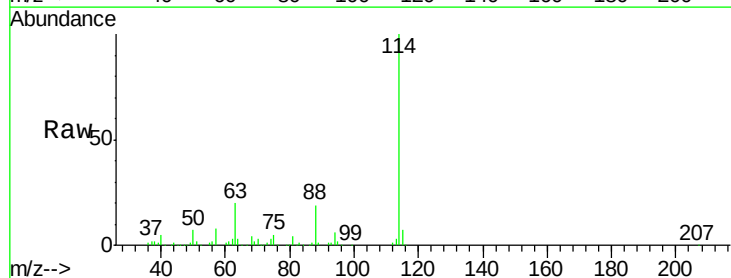
Tgt Ion: 114 Resp: 402908

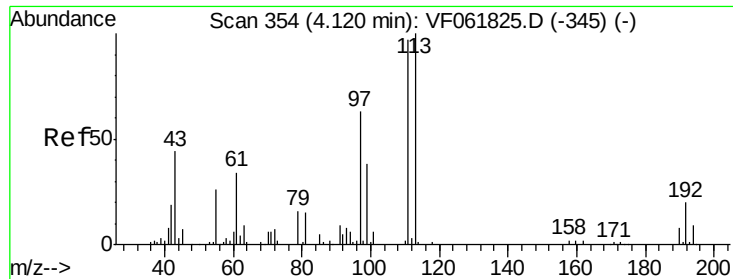
Ion Ratio Lower Upper

114 100

63 20.3 0.0 35.6

88 18.6 0.0 35.6

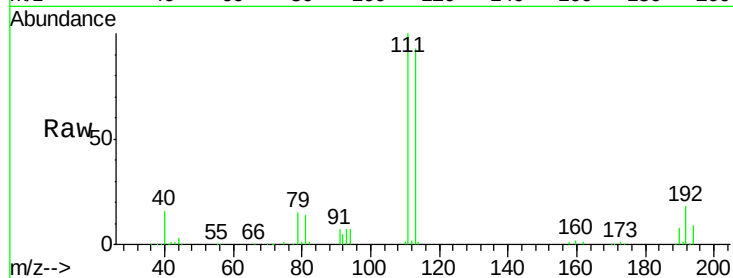




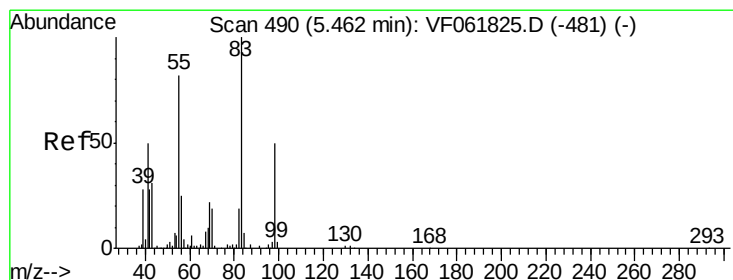
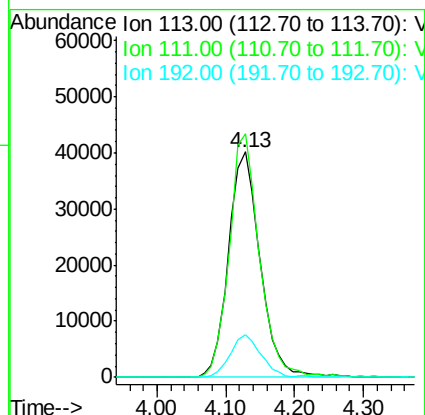
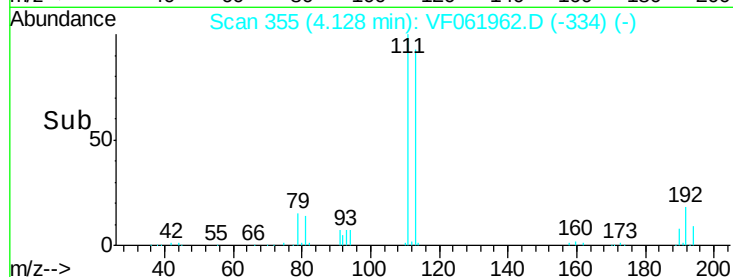
#35
 Dibromofluoromethane
 Concen: 45.662 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VF061962.D
 Acq: 15 Mar 2019 15:44

Instrument :
 MSVOA_F
 ClientSampleId :
 A1-2(3-3.5)

Tot Ion:113 Resp: 128391
 Ion Ratio Lower Upper
 113 100
 111 107.9 77.6 116.4
 192 19.1 15.9 23.9

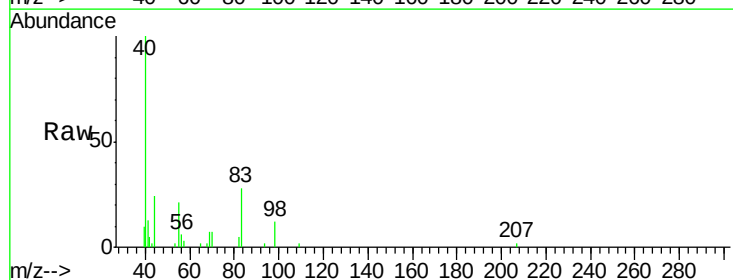


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

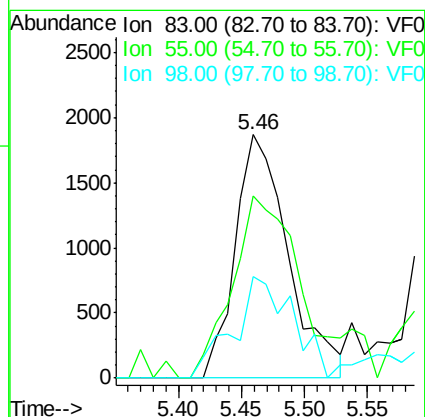
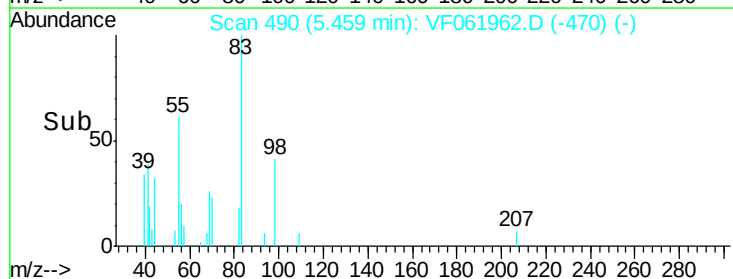


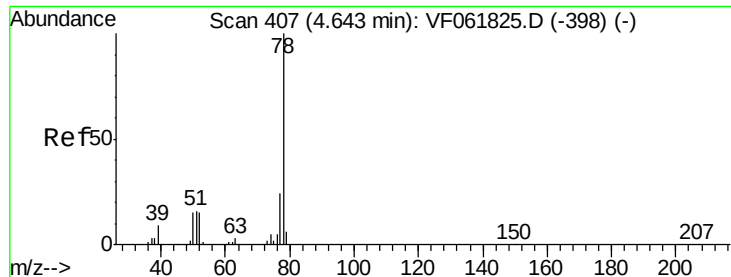
#39
 Methylcyclohexane
 Concen: 1.212 ug/l
 RT: 5.46 min Scan# 490
 Delta R.T. -0.00 min
 Lab File: VF061962.D
 Acq: 15 Mar 2019 15:44

Tgt Ion: 83 Resp: 5447
 Ion Ratio Lower Upper
 83 100
 55 75.0 66.0 99.0
 98 41.5 39.8 59.6



Abundance Ion 83.00 (82.70 to 83.70): VF0
 Ion 55.00 (54.70 to 55.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 2.854 ug/l

RT: 4.64 min Scan# 407

Delta R.T. -0.00 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

Instrument :

MSVOA_F

ClientSampled :

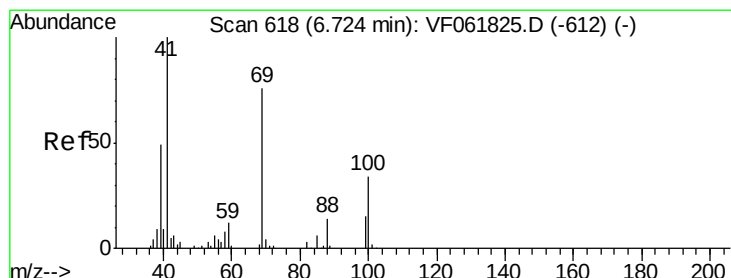
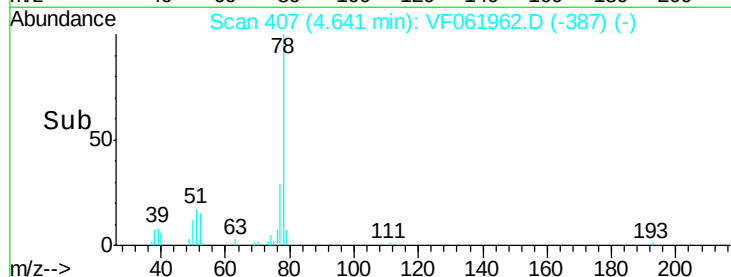
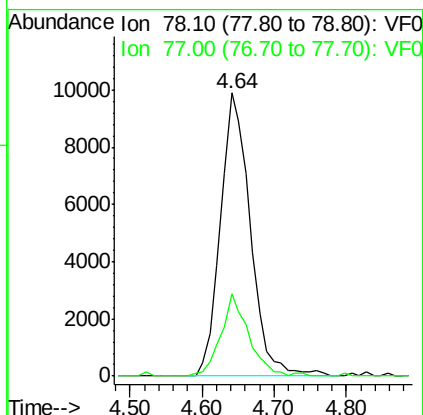
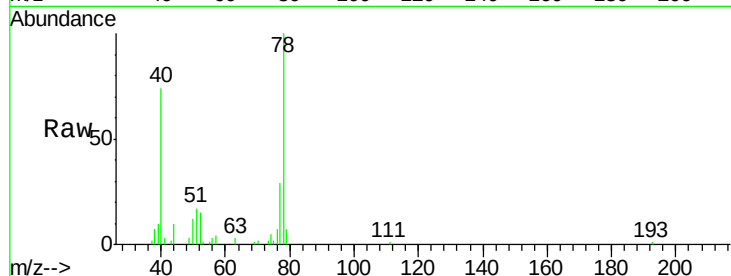
A1-2(3-3.5)

Tot Ion: 78 Resp: 28391

Ion Ratio Lower Upper

78 100

77 28.9 19.5 29.3



#48

Methyl methacrylate

Concen: 1.037 ug/l

RT: 6.75 min Scan# 621

Delta R.T. 0.03 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

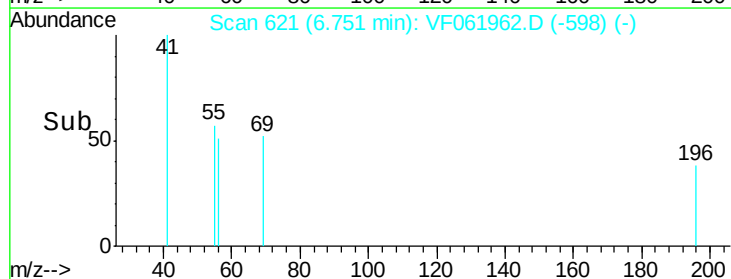
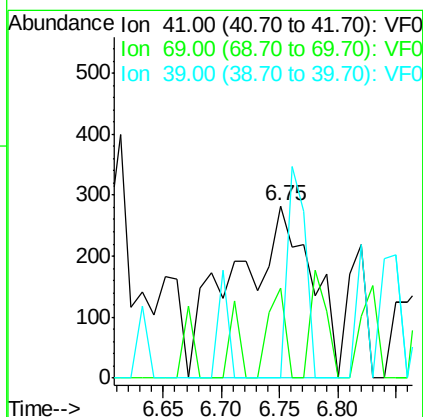
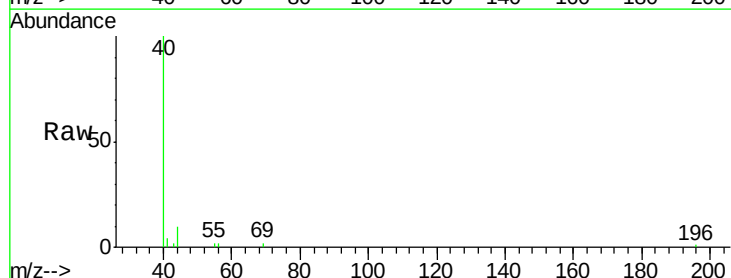
Tgt Ion: 41 Resp: 1292

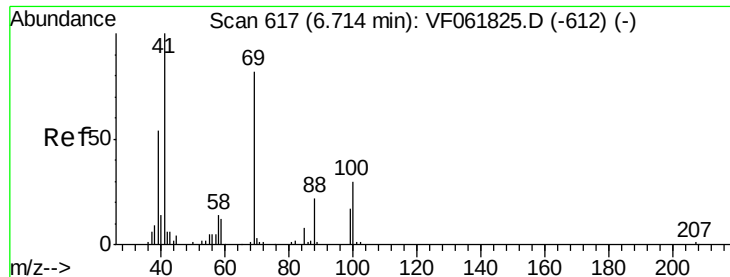
Ion Ratio Lower Upper

41 100

69 51.9 60.4 90.6#

39 0.0 39.7 59.5#

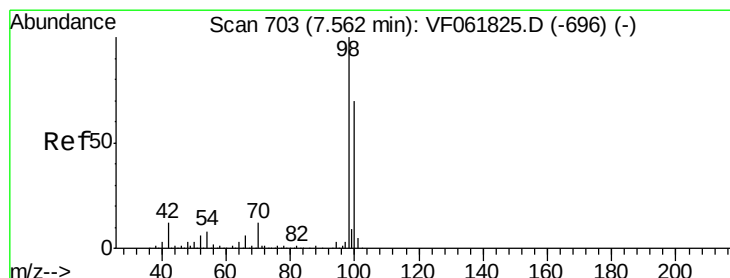
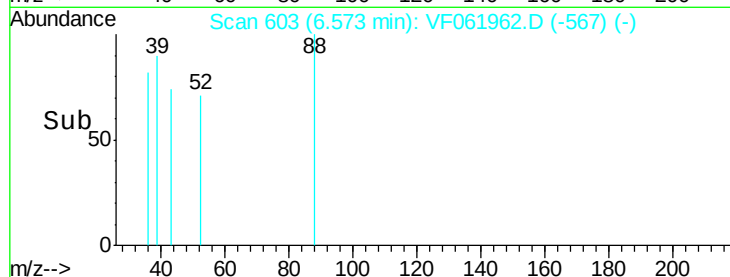
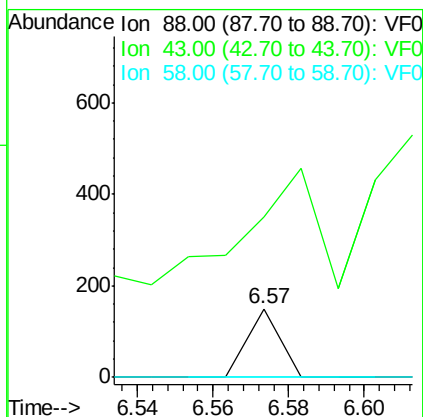
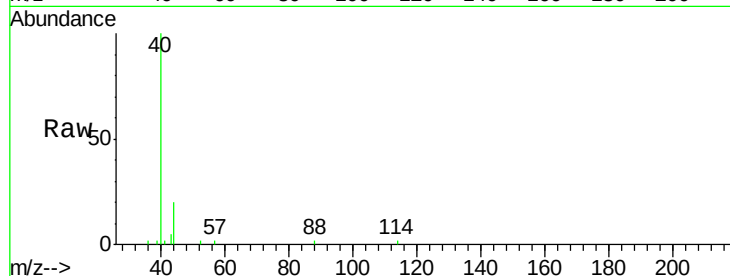




#49
1,4-Dioxane
Concen: 7.812 ug/l
RT: 6.57 min Scan# 603
Delta R.T. -0.14 min
Lab File: VF061962.D
Acq: 15 Mar 2019 15:44

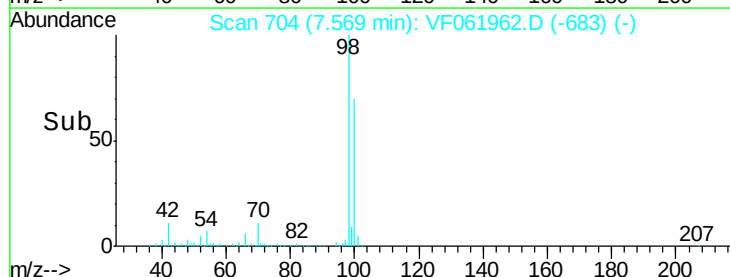
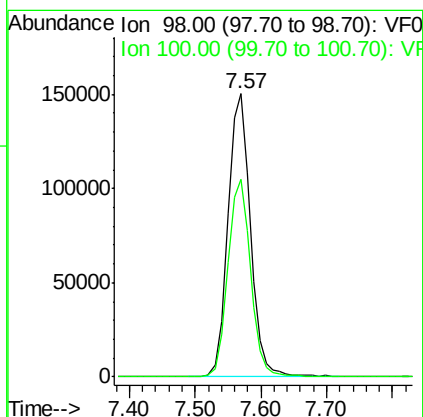
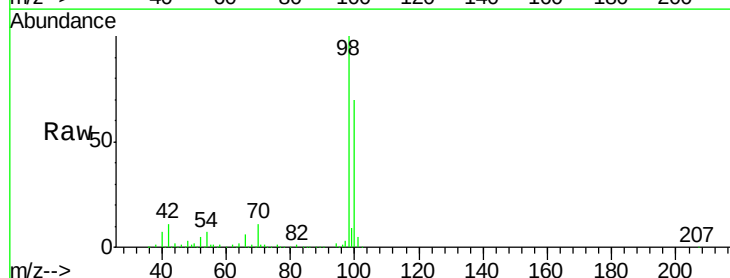
Instrument :
MSVOA_F
ClientSampleId :
A1-2(3-3.5)

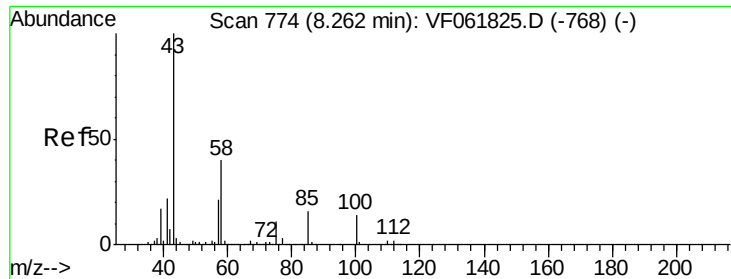
Tot Ion: 88 Resp: 89
Ion Ratio Lower Upper
88 100
43 234.0 28.4 42.6#
58 0.0 50.7 76.1#



#50
Toluene-d8
Concen: 43.220 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF061962.D
Acq: 15 Mar 2019 15:44

Tgt Ion: 98 Resp: 361207
Ion Ratio Lower Upper
98 100
100 69.6 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 1.223 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

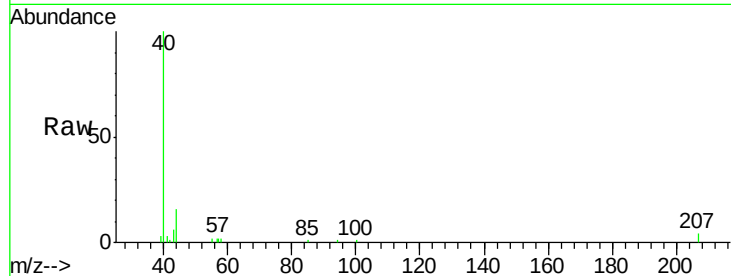
A1-2(3-3.5)

Tot Ion: 43 Resp: 1665

Ion Ratio Lower Upper

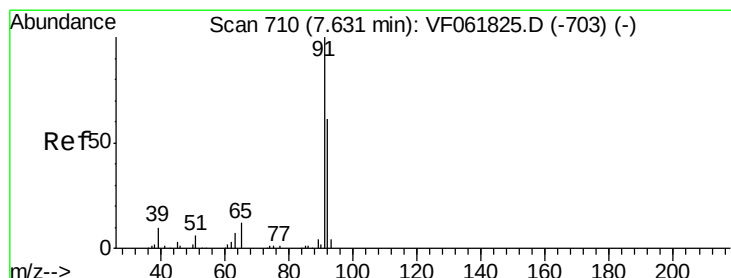
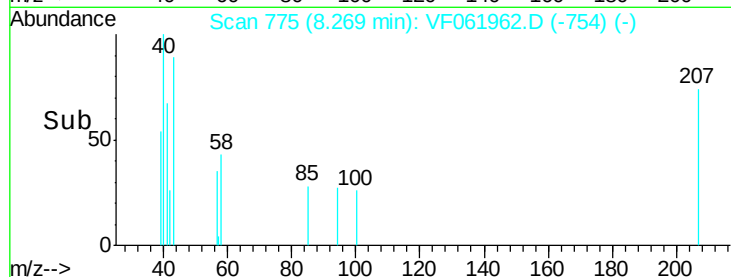
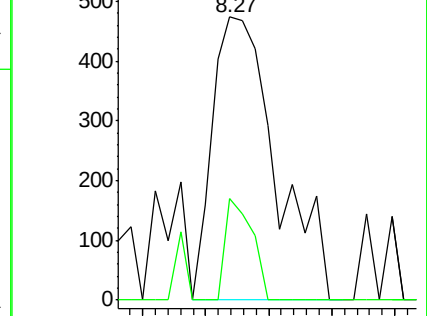
43 100

58 36.2 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 1.287 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF061962.D

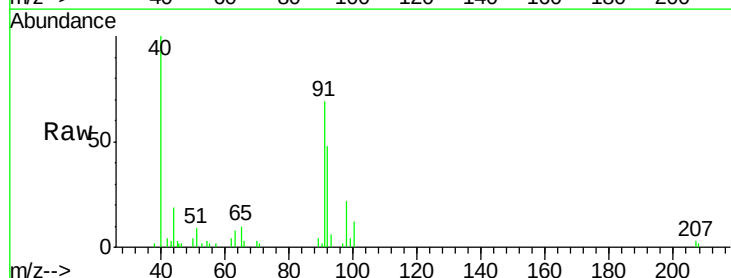
Acq: 15 Mar 2019 15:44

Tgt Ion: 92 Resp: 7573

Ion Ratio Lower Upper

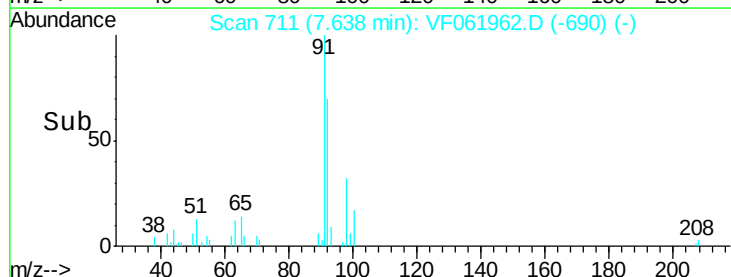
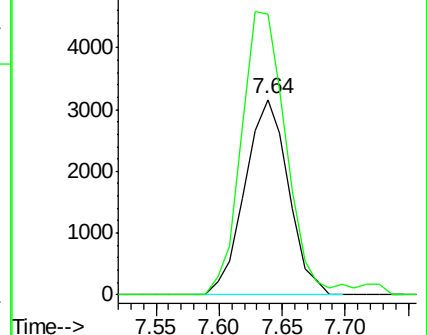
92 100

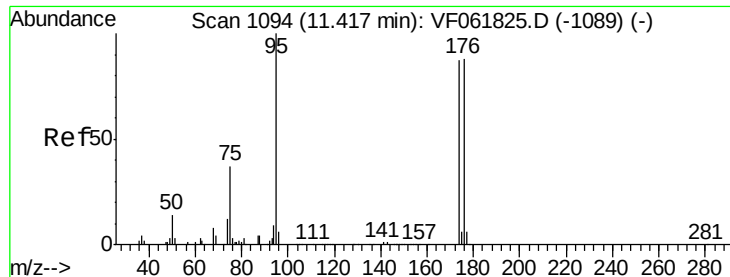
91 143.5 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#62

4-Bromofluorobenzene

Concen: 46.412 ug/l

RT: 11.41 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

Instrument :

MSVOA_F

ClientSampled :

A1-2(3-3.5)

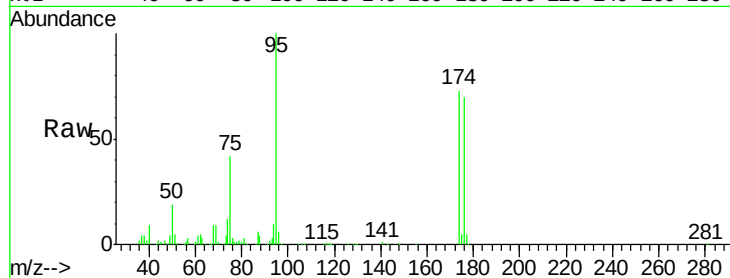
Tot Ion: 95 Resp: 151945

Ion Ratio Lower Upper

95 100

174 72.5 0.0 174.0

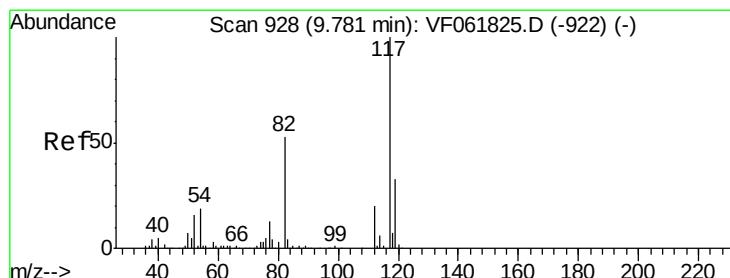
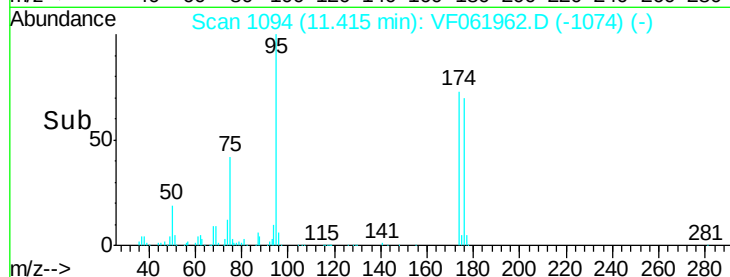
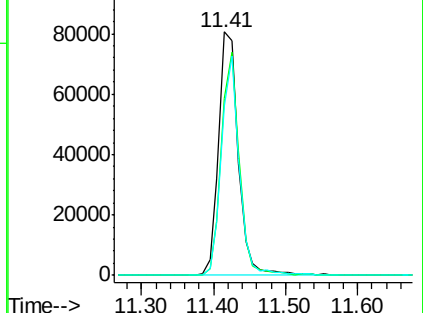
176 69.8 0.0 175.2



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

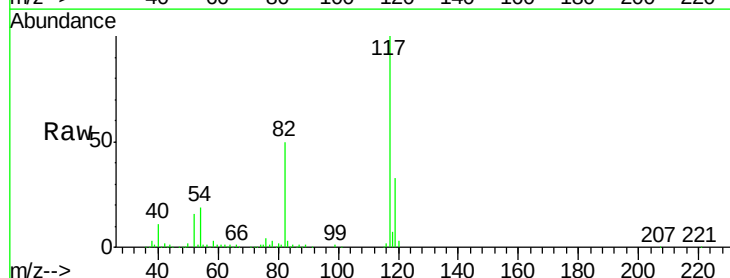
Tgt Ion: 117 Resp: 332020

Ion Ratio Lower Upper

117 100

82 50.0 42.6 63.8

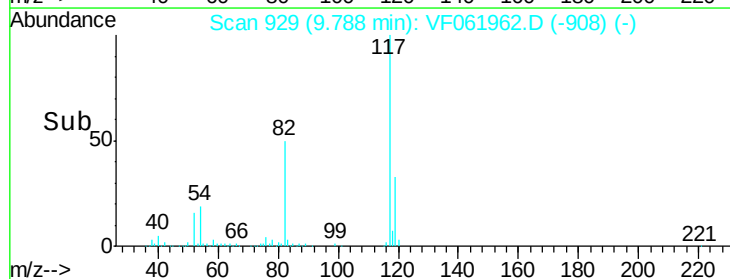
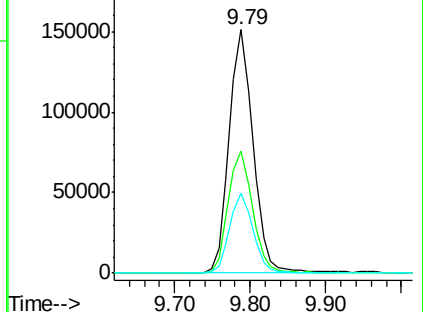
119 33.0 26.0 39.0

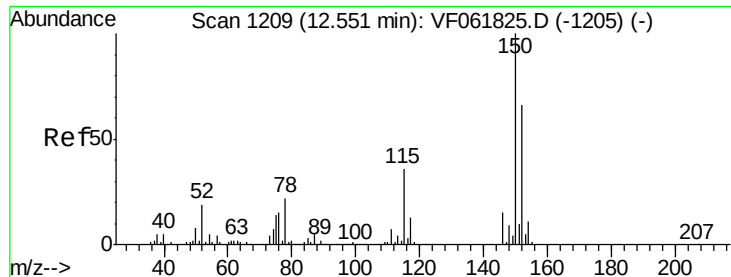


Abundance Ion 117.00 (116.70 to 117.70): VF061825.D (-922) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

Instrument :

MSVOA_F

ClientSampled :

A1-2(3-3.5)

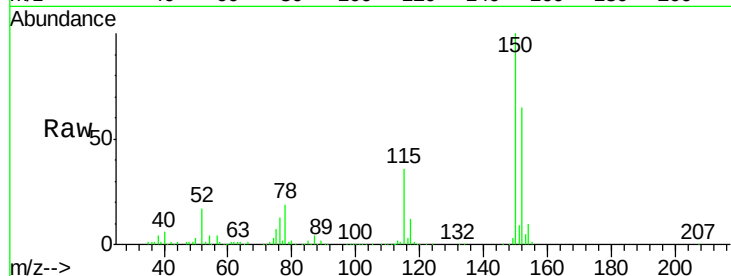
Tot Ion:152 Resp: 197465

Ion Ratio Lower Upper

152 100

115 55.8 27.7 83.1

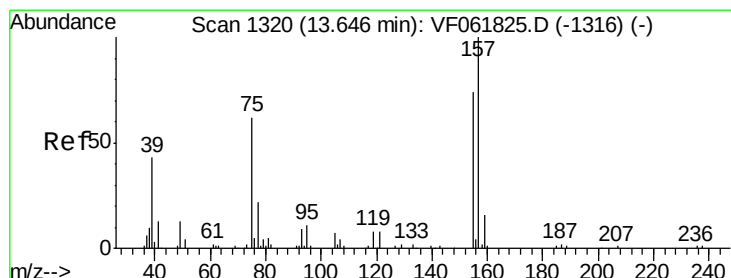
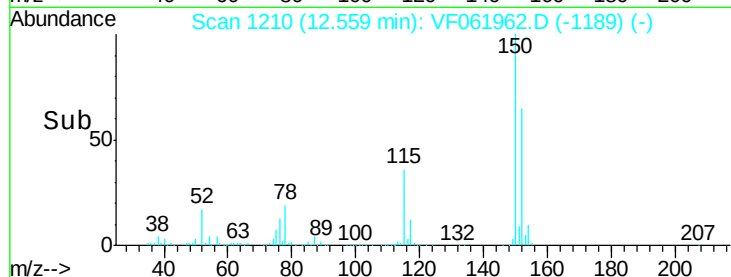
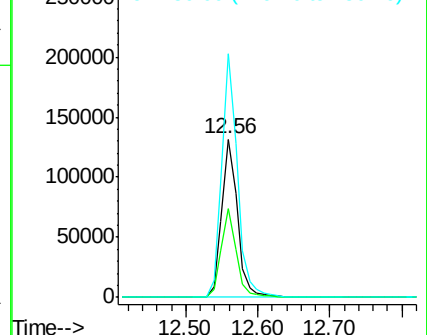
150 154.1 0.0 304.2



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: 3.909 ug/l

RT: 13.55 min Scan# 1311

Delta R.T. -0.09 min

Lab File: VF061962.D

Acq: 15 Mar 2019 15:44

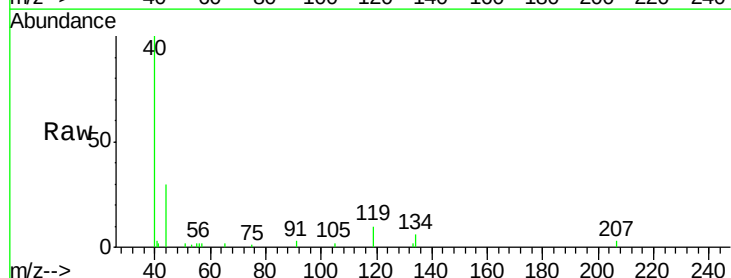
Tgt Ion: 75 Resp: 60

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

