

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031919\
 Data File : VF062022.D
 Acq On : 19 Mar 2019 17:18
 Operator : VA/AP
 Sample : K1687-07RE
 Misc : 6.58g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 20 05:21:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 18 07:28:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	44168	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.57	114	54147	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	28654	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	12188	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	7037	22.13	ug/l	-0.02
Spiked Amount			Recovery	=	44.26%	
35) Dibromofluoromethane	4.09	113	13384	36.81	ug/l	-0.02
Spiked Amount			Recovery	=	73.62%	
50) Toluene-d8	7.54	98	47253	44.46	ug/l	-0.02
Spiked Amount			Recovery	=	88.92%	
62) 4-Bromofluorobenzene	11.39	95	11932	28.26	ug/l	-0.02
Spiked Amount			Recovery	=	56.52%	

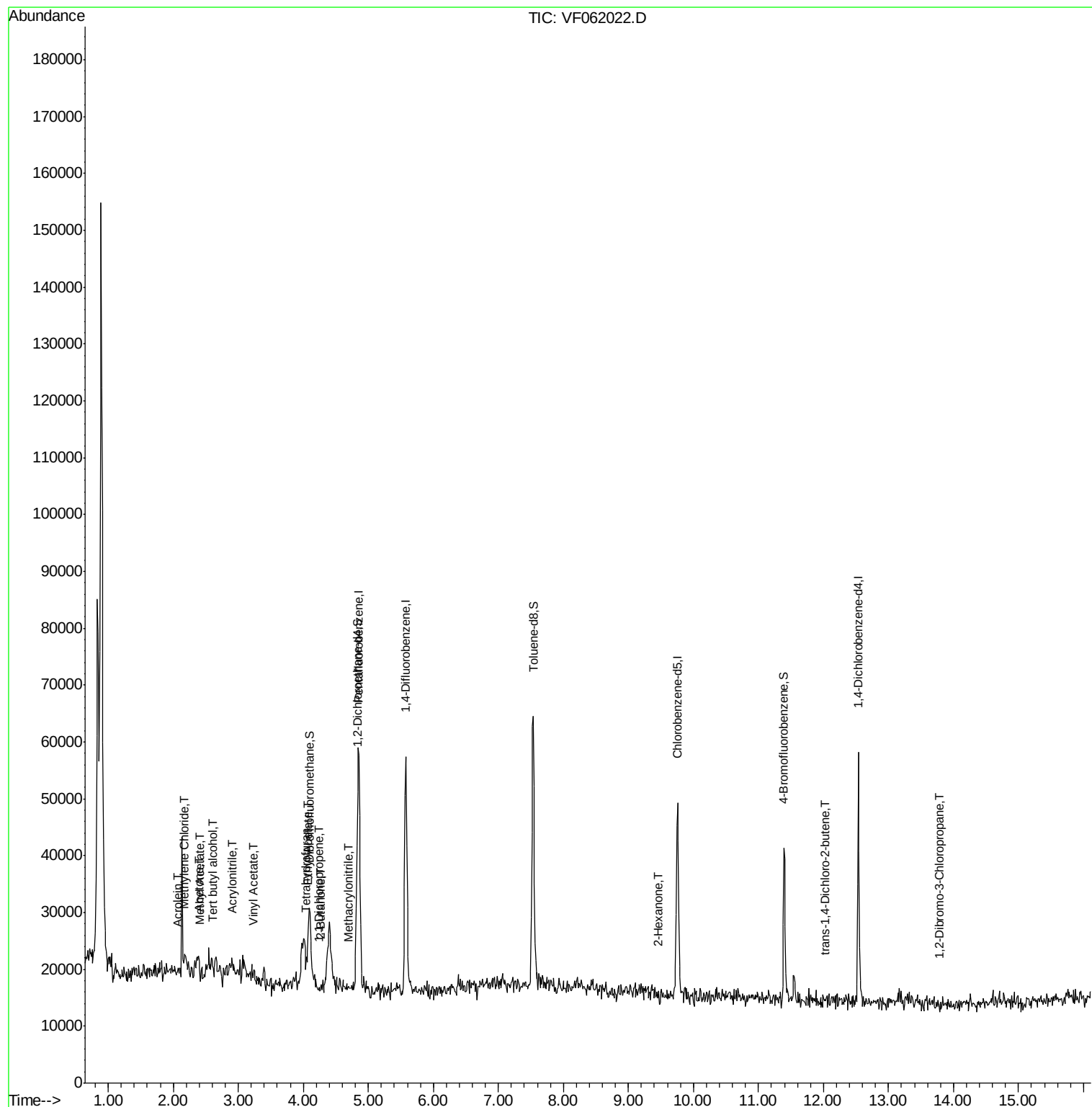
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.62	59	71	3.649	ug/l #	71
13) Acrolein	2.05	56	209	9.951	ug/l	91
15) Acrylonitrile	2.91	53	299	5.054	ug/l #	34
16) Acetone	2.38	43	1516	21.234	ug/l	92
18) Methyl Acetate	2.42	43	551	3.772	ug/l #	63
20) Methylene Chloride	2.17	84	2270	6.176	ug/l #	69
23) Vinyl Acetate	3.24	43	673	1.492	ug/l #	77
25) 2-Butanone	4.27	43	230	1.627	ug/l #	51
29) Tetrahydrofuran	4.05	42	89	1.447	ug/l #	33
36) 1,1-Dichloropropene	4.25	75	554	1.133	ug/l #	42
37) Ethyl Acetate	4.07	43	487	2.218	ug/l #	19
41) Methacrylonitrile	4.71	41	277	2.361	ug/l #	22
59) 2-Hexanone	9.45	43	153	1.146	ug/l #	23
81) trans-1,4-Dichloro-2-buten	12.02	75	64	1.489	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.78	75	70	3.139	ug/l #	1

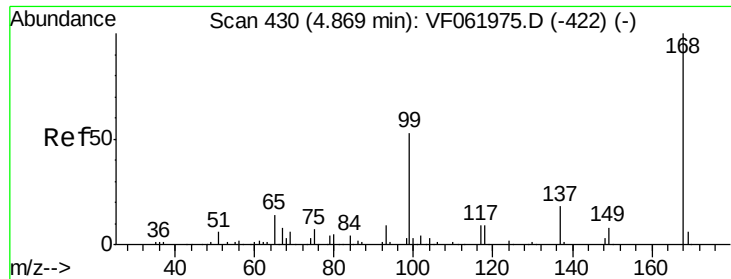
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Mar 18 07:28:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

Instrument :

MSVOA_F

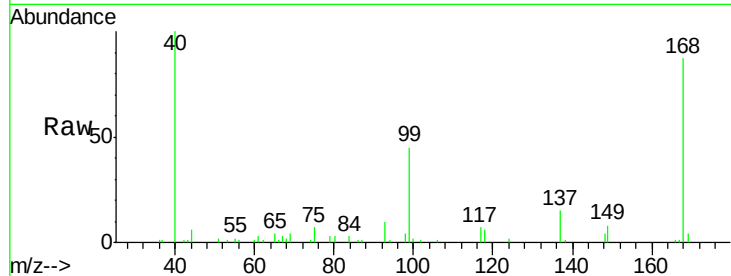
ClientSampleId :

Tot Ion:168 Resp: 44168

Ion Ratio Lower Upper

168 100

99 51.8 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

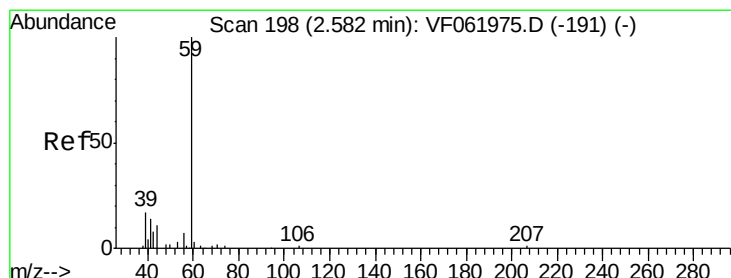
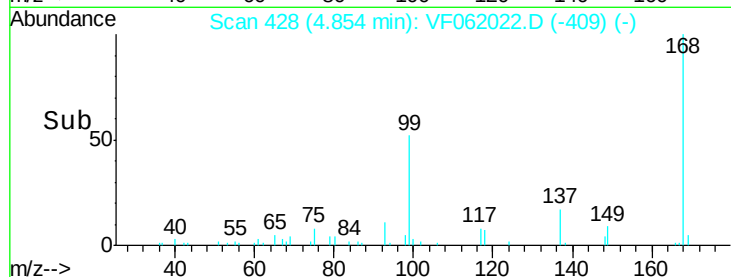
15000

10000

5000

0

Time--> 4.70 4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 3.649 ug/l

RT: 2.62 min Scan# 201

Delta R.T. 0.03 min

Lab File: VF062022.D

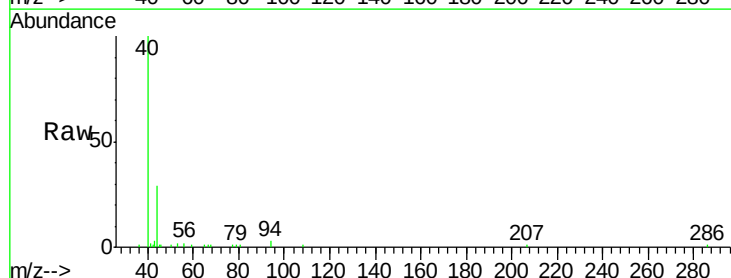
Acq: 19 Mar 2019 17:18

Tgt Ion: 59 Resp: 71

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.62

200

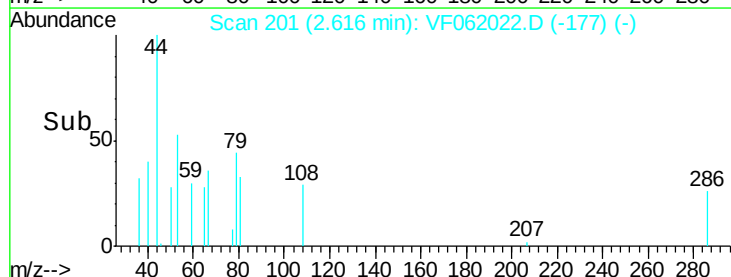
150

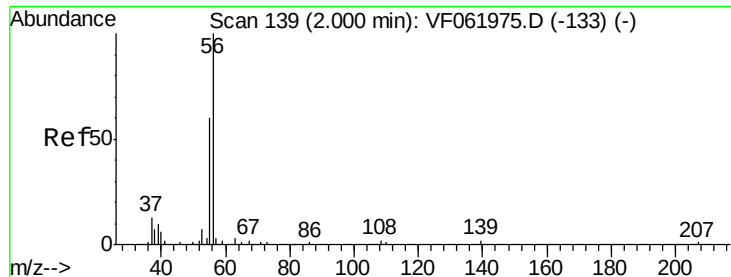
100

50

0

Time--> 2.58 2.60 2.62 2.64





#13

Acrolein

Concen: 9.951 ug/l

RT: 2.05 min Scan# 144

Delta R.T. 0.05 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

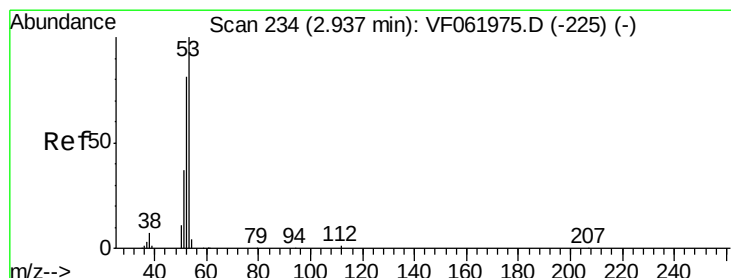
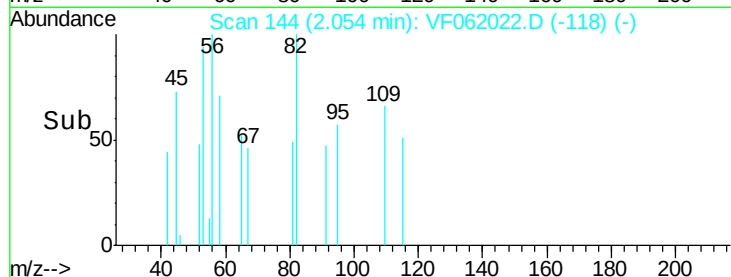
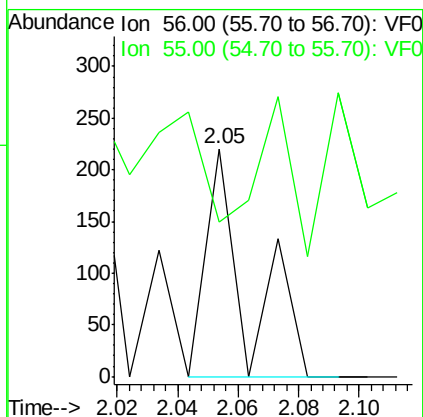
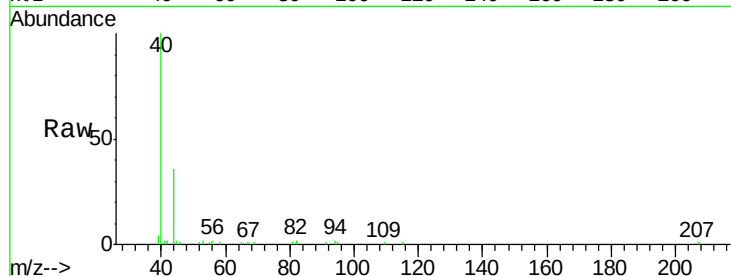
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 209

Ion Ratio Lower Upper

56 100

55 68.2 49.1 73.7



#15

Acrylonitrile

Concen: 5.054 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.03 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

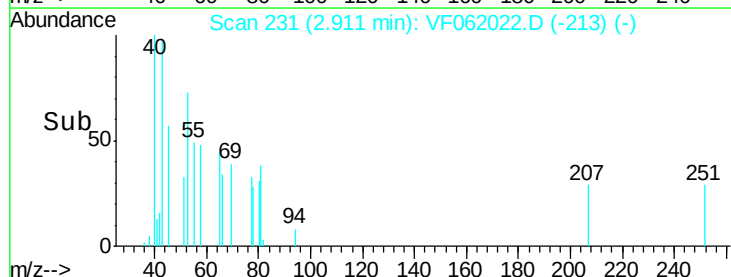
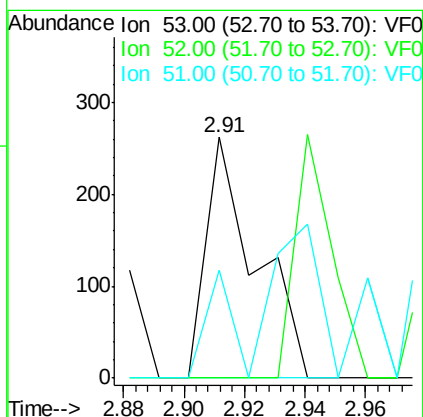
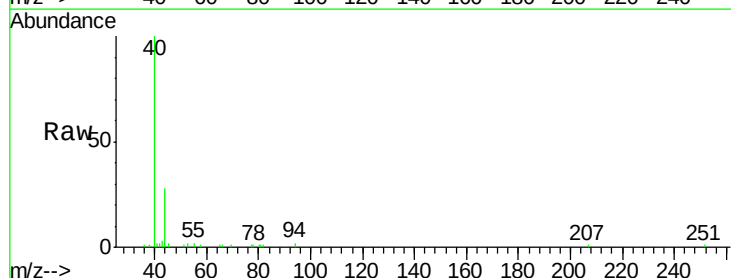
Tgt Ion: 53 Resp: 299

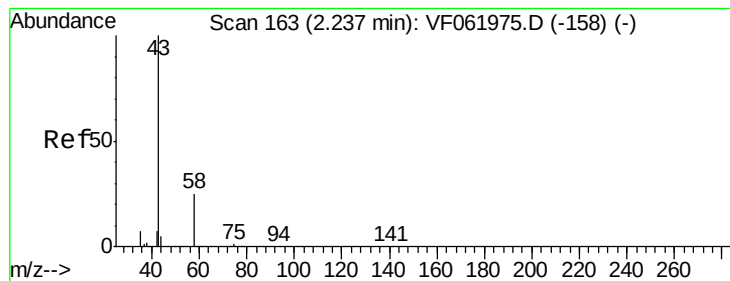
Ion Ratio Lower Upper

53 100

52 0.0 64.4 96.6#

51 45.0 30.3 45.5





#16

Acetone

Concen: 21.234 ug/l

RT: 2.38 min Scan# 177

Delta R.T. 0.14 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

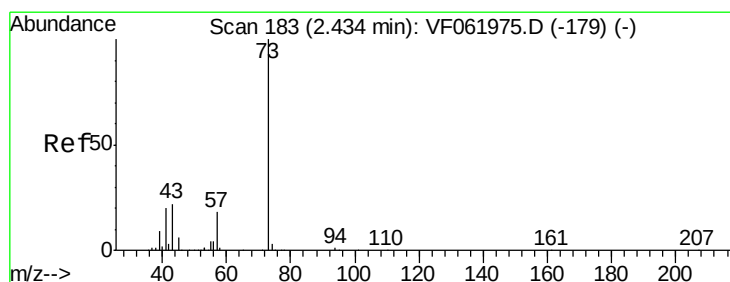
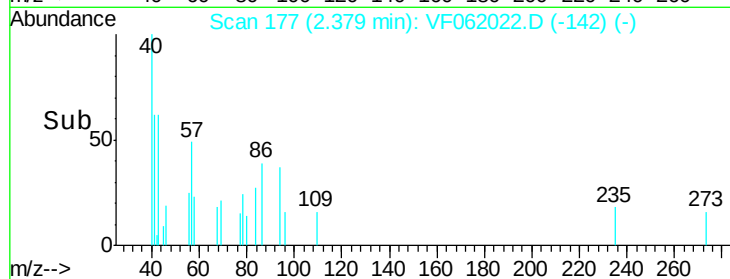
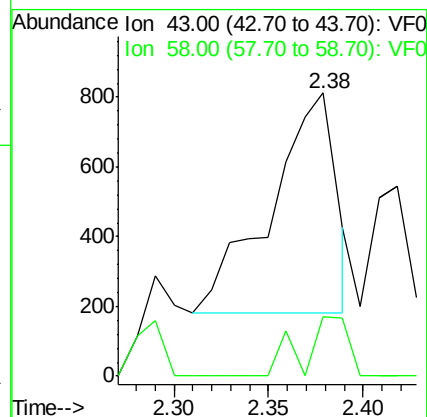
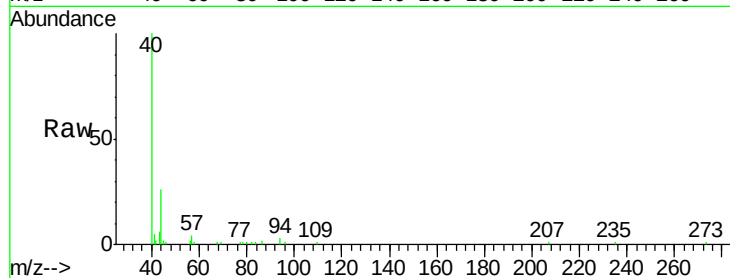
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1516

Ion Ratio Lower Upper

43 100

58 20.8 19.9 29.9



#18

Methyl Acetate

Concen: 3.772 ug/l

RT: 2.42 min Scan# 181

Delta R.T. -0.02 min

Lab File: VF062022.D

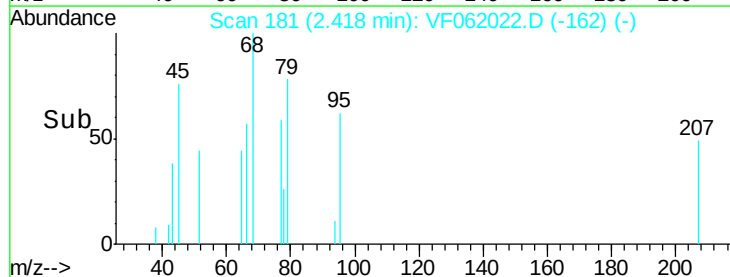
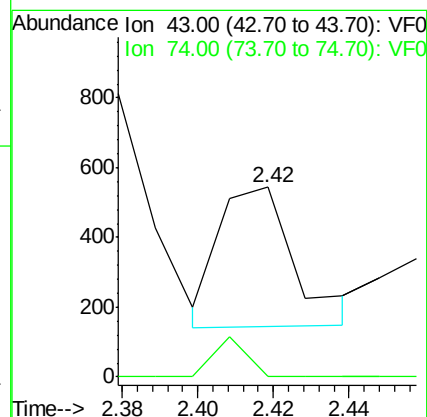
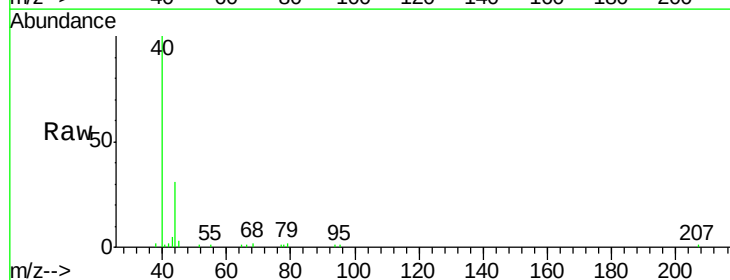
Acq: 19 Mar 2019 17:18

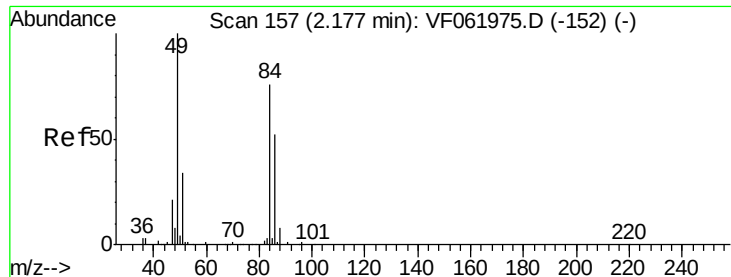
Tgt Ion: 43 Resp: 551

Ion Ratio Lower Upper

43 100

74 0.0 12.6 18.8#

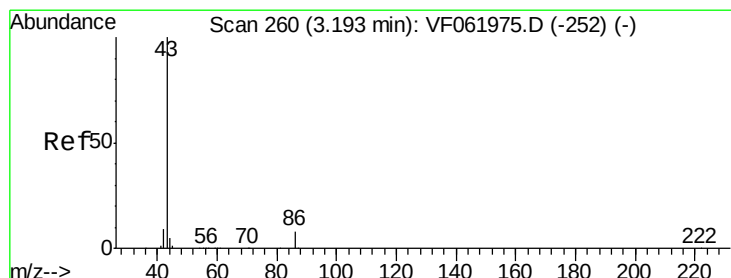
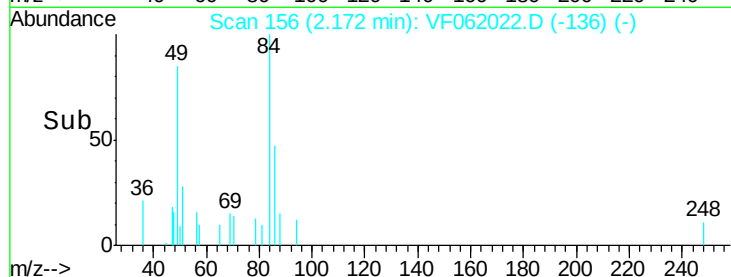
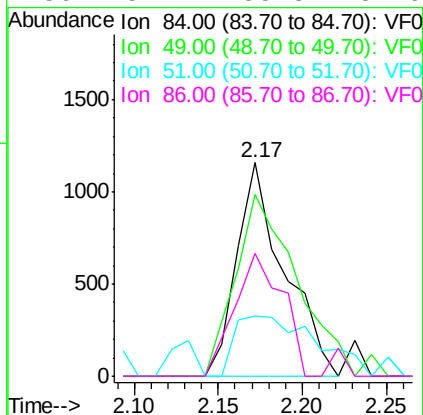
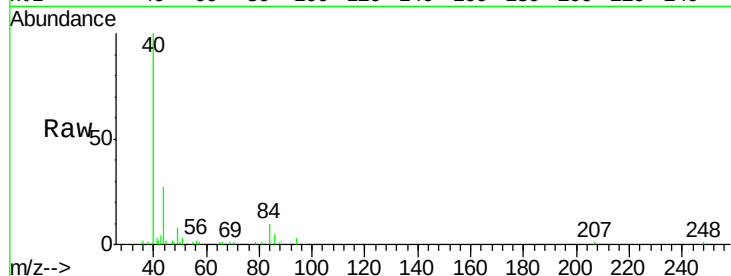




#20
Methvlene Chloride
Concen: 6.176 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF062022.D
Acq: 19 Mar 2019 17:18

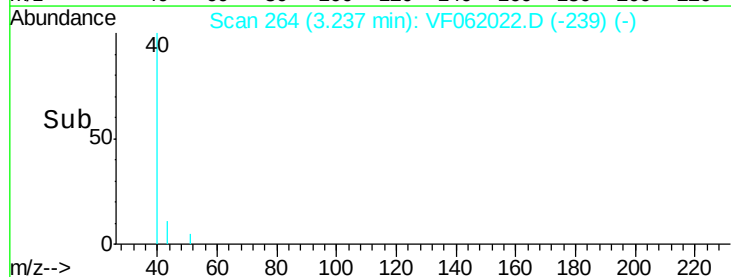
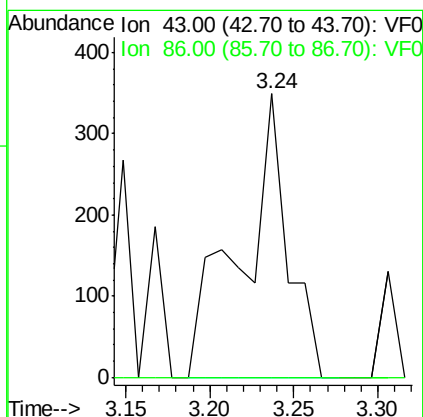
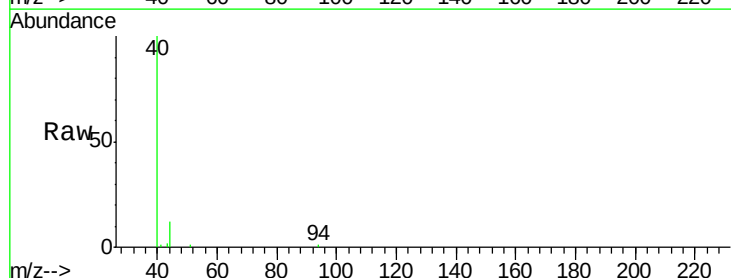
Instrument :
MSVOA_F
ClientSampleId :

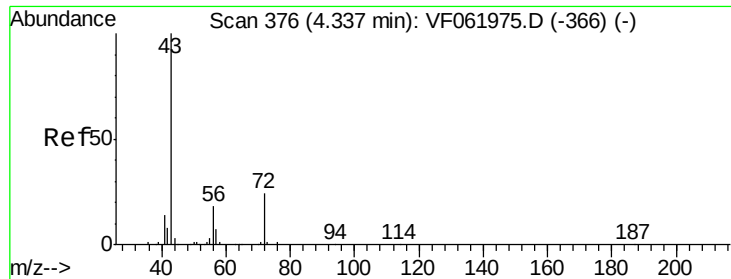
Tot Ion: 84 Resp: 2270
Ion Ratio Lower Upper
84 100
49 85.1 107.0 160.6#
51 28.3 37.2 55.8#
86 57.7 55.3 82.9



#23
Vinyl Acetate
Concen: 1.492 ug/l
RT: 3.24 min Scan# 264
Delta R.T. 0.04 min
Lab File: VF062022.D
Acq: 19 Mar 2019 17:18

Tgt Ion: 43 Resp: 673
Ion Ratio Lower Upper
43 100
86 0.0 6.5 9.7#





#25

2-Butanone

Concen: 1.627 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.06 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

Instrument :

MSVOA_F

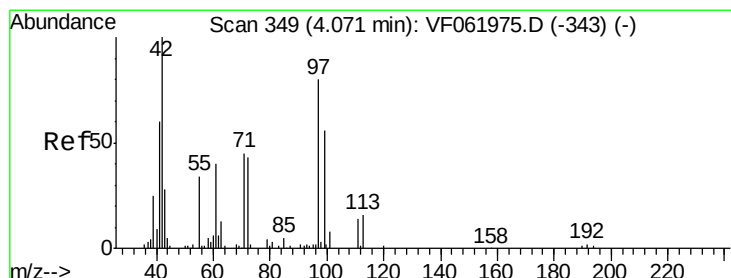
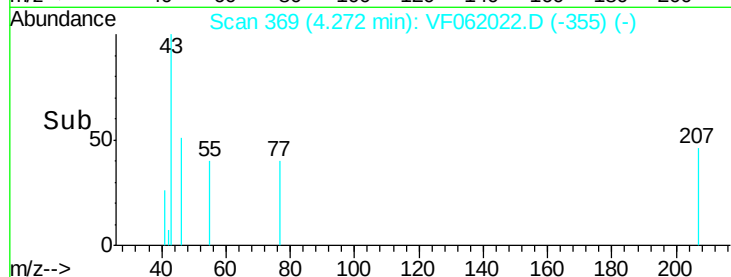
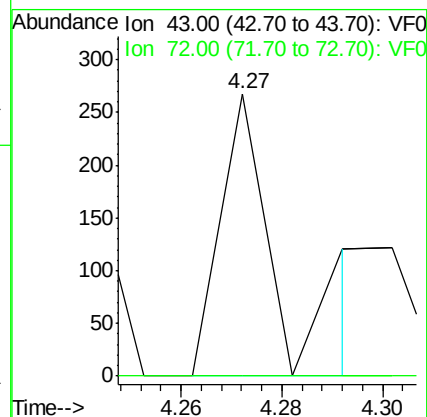
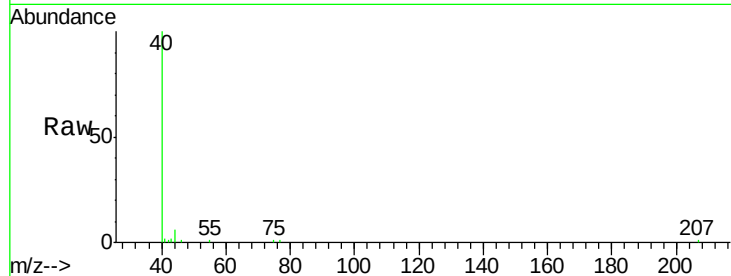
ClientSampled :

Tot Ion: 43 Resp: 230

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.6#



#29

Tetrahydrofuran

Concen: 1.447 ug/l

RT: 4.05 min Scan# 346

Delta R.T. -0.03 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

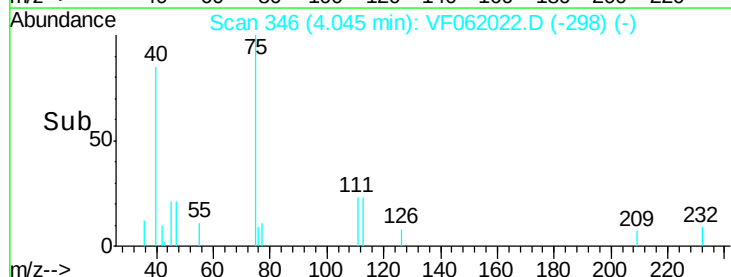
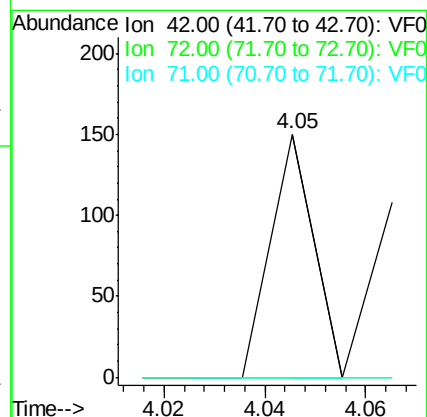
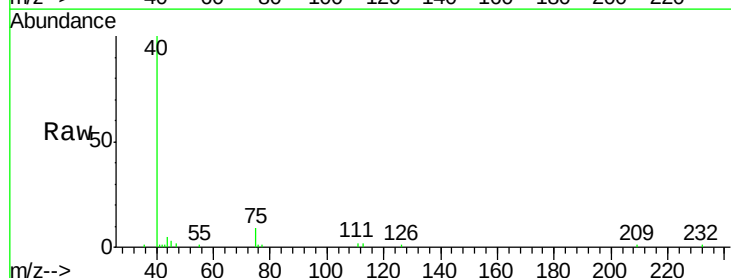
Tgt Ion: 42 Resp: 89

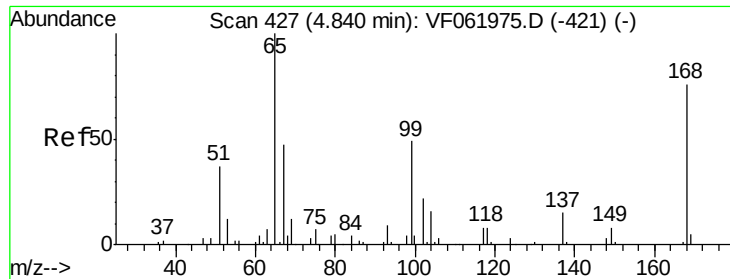
Ion Ratio Lower Upper

42 100

72 0.0 34.0 51.0#

71 0.0 34.2 51.4#

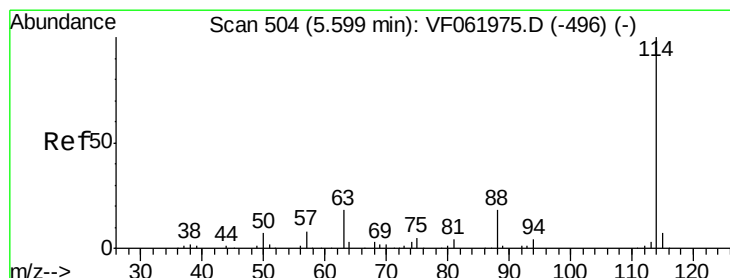
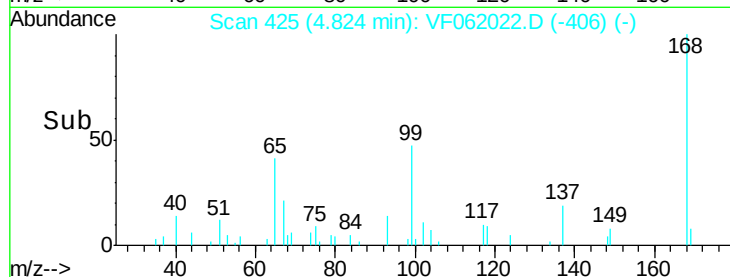
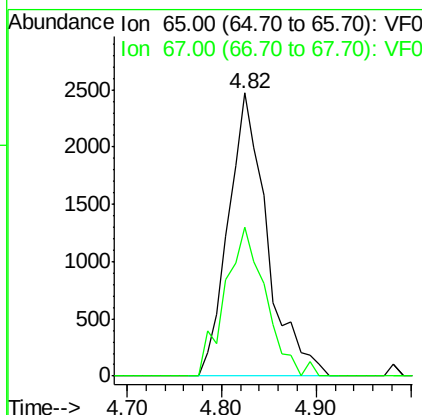
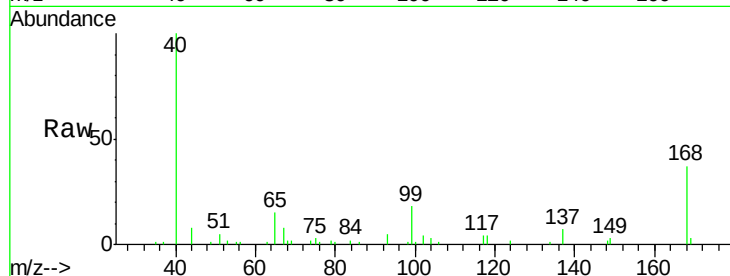




#33
 1,2-Dichloroethane-d4
 Concen: 22.133 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.02 min
 Lab File: VF062022.D
 Acq: 19 Mar 2019 17:18

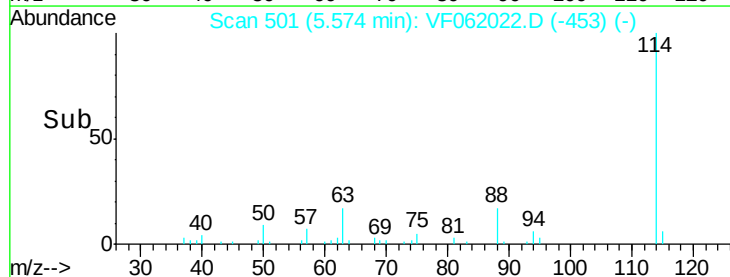
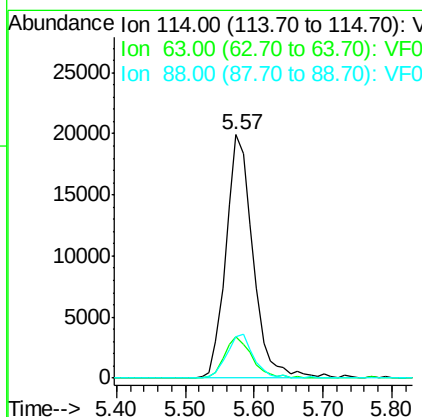
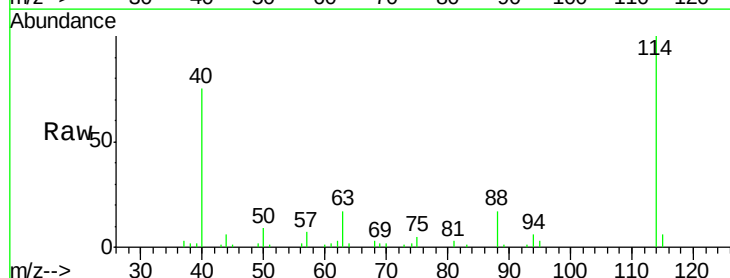
Instrument :
 MSVOA_F
 ClientSampled :

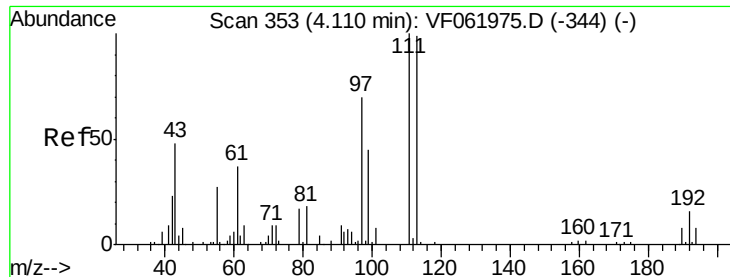
Tot Ion: 65 Resp: 7037
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.03 min
 Lab File: VF062022.D
 Acq: 19 Mar 2019 17:18

Tgt Ion: 114 Resp: 54147
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 36.4
 88 17.0 0.0 36.4





#35

Dibromofluoromethane

Concen: 36.809 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

Instrument :
MSVOA_F
ClientSampled :

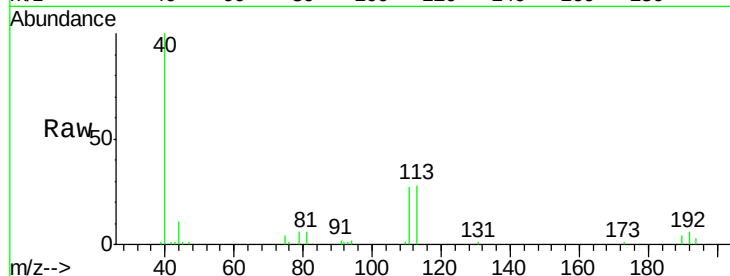
Tot Ion:113 Resp: 13384

Ion Ratio Lower Upper

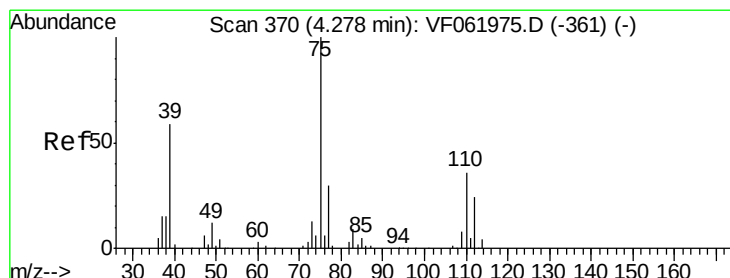
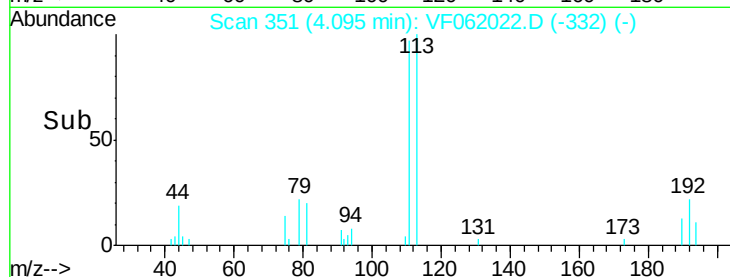
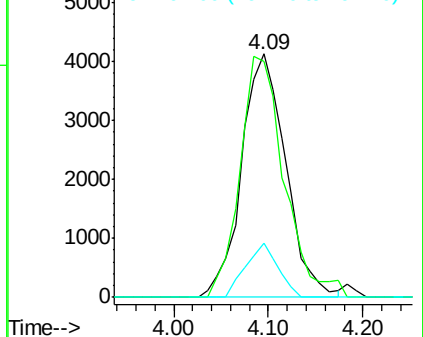
113 100

111 97.0 80.8 121.2

192 22.2 13.0 19.6#



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



#36

1,1-Dichloropropene

Concen: 1.133 ug/l

RT: 4.25 min Scan# 367

Delta R.T. -0.03 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

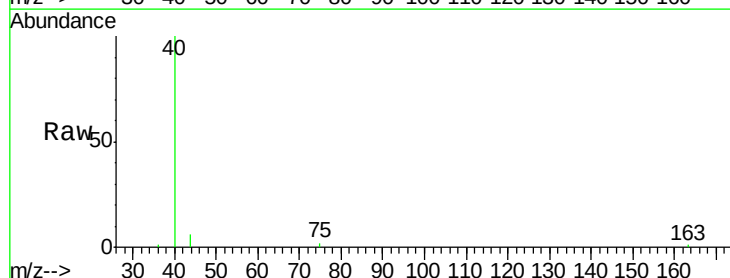
Tgt Ion: 75 Resp: 554

Ion Ratio Lower Upper

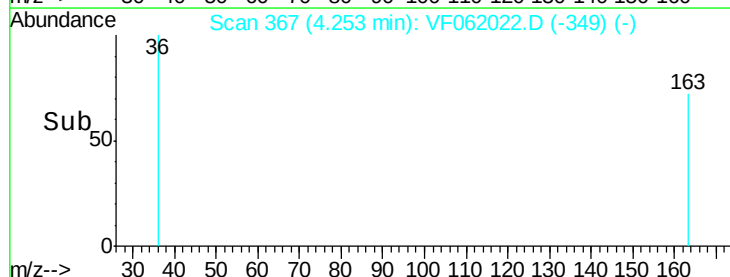
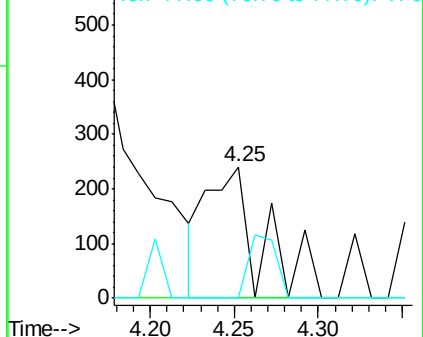
75 100

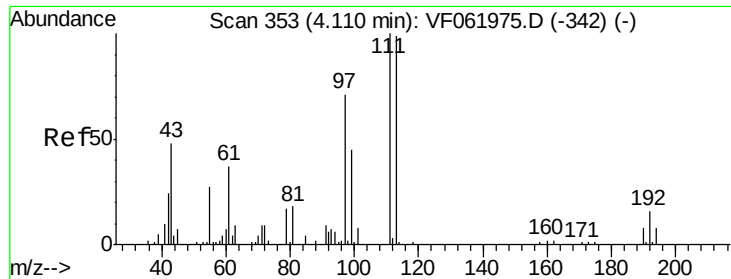
110 0.0 17.8 53.3#

77 0.0 24.2 36.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0

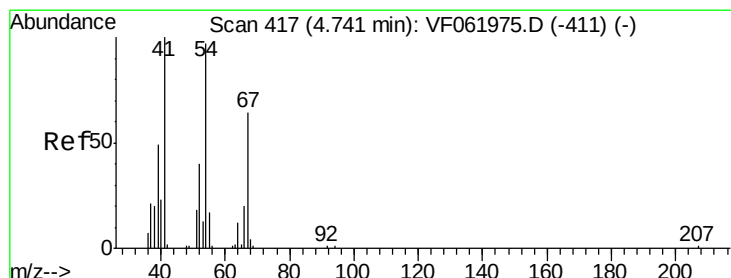
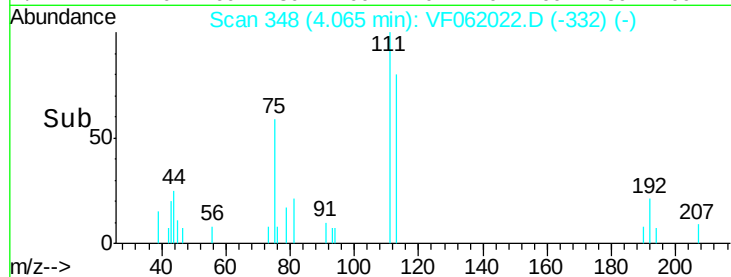
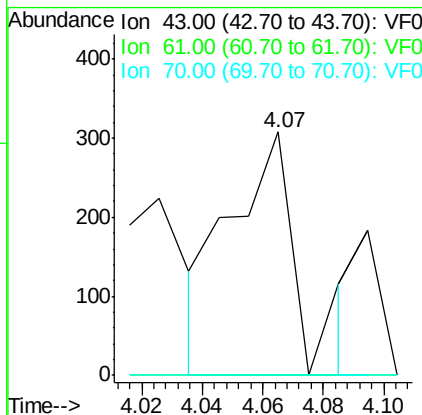
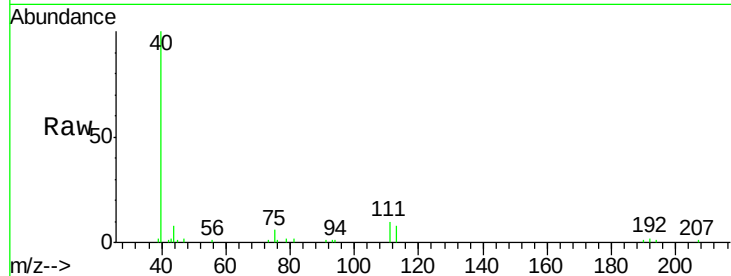




#37
Ethyl Acetate
Concen: 2.218 ug/l
RT: 4.07 min Scan# 348
Delta R.T. -0.04 min
Lab File: VF062022.D
Acq: 19 Mar 2019 17:18

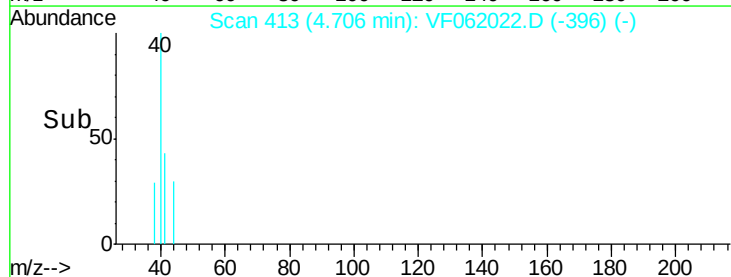
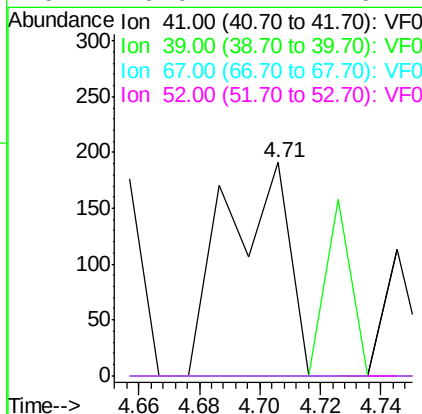
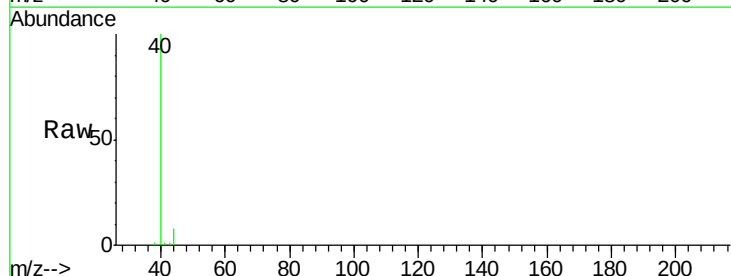
Instrument :
MSVOA_F
ClientSampleId :

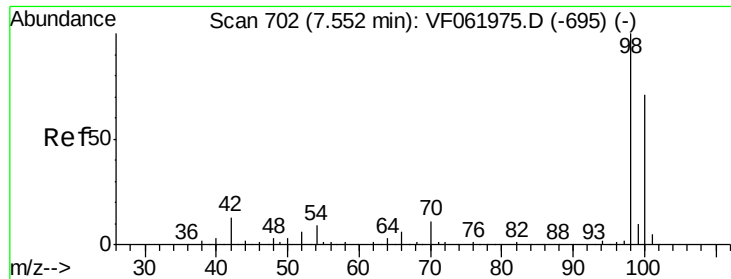
Tot Ion: 43 Resp: 487
Ion Ratio Lower Upper
43 100
61 0.0 59.8 89.6#
70 0.0 7.8 11.8#



#41
Methacrylonitrile
Concen: 2.361 ug/l
RT: 4.71 min Scan# 413
Delta R.T. -0.04 min
Lab File: VF062022.D
Acq: 19 Mar 2019 17:18

Tgt Ion: 41 Resp: 277
Ion Ratio Lower Upper
41 100
39 0.0 46.2 69.4#
67 0.0 49.8 74.8#
52 0.0 42.7 64.1#

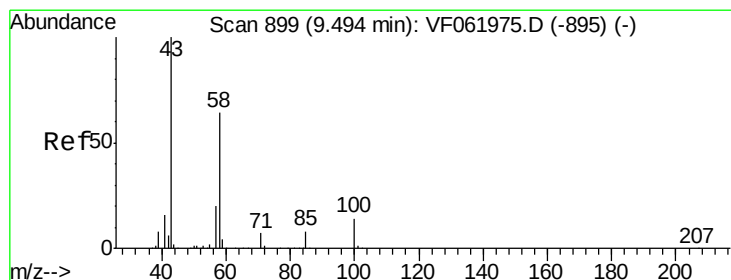
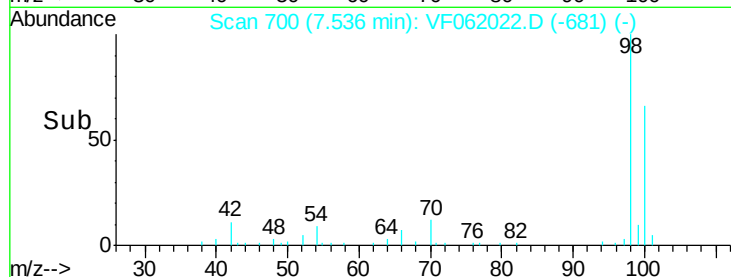
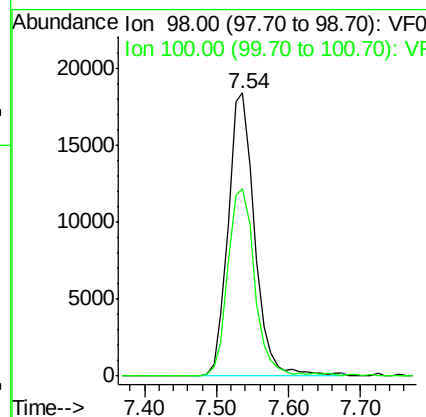
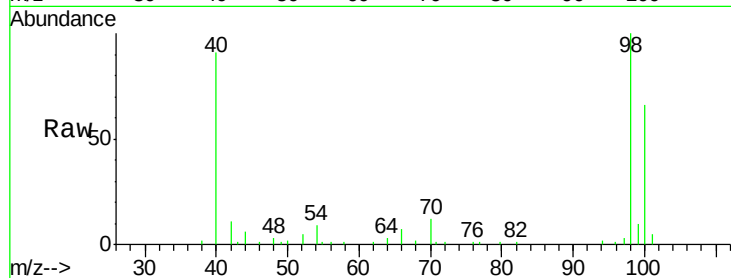




#50
Toluene-d8
Concen: 44.455 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF062022.D
Acq: 19 Mar 2019 17:18

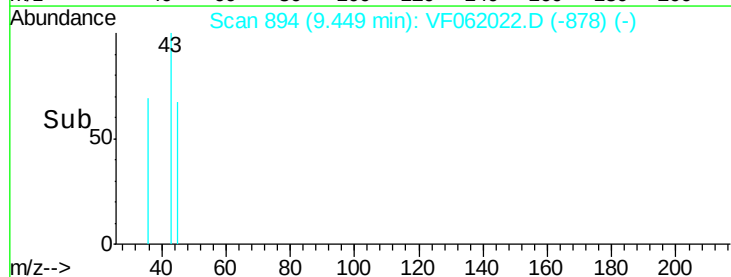
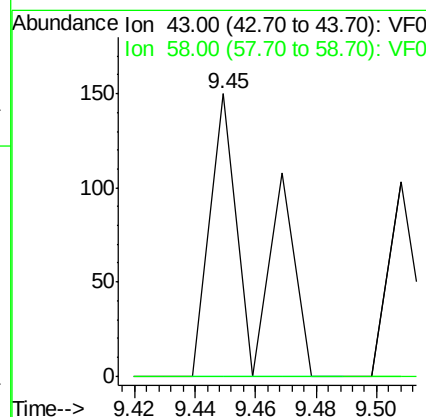
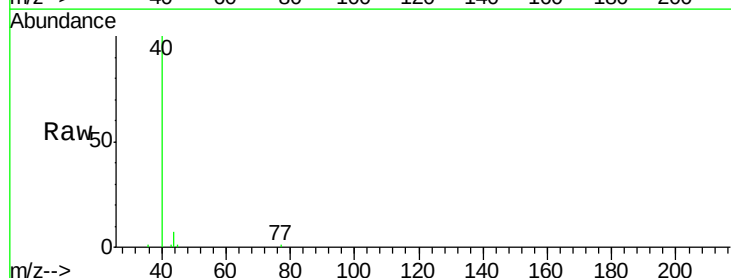
Instrument :
MSVOA_F
ClientSampled :

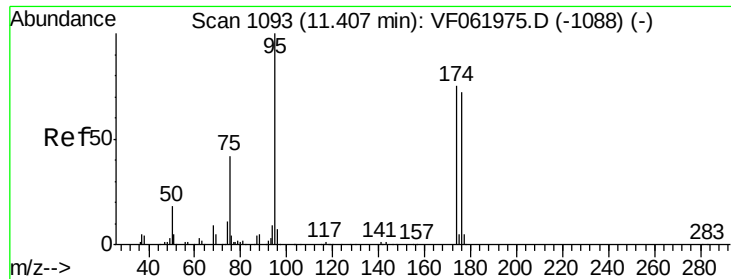
Tot Ion: 98 Resp: 47253
Ion Ratio Lower Upper
98 100
100 66.1 56.8 85.2



#59
2-Hexanone
Concen: 1.146 ug/l
RT: 9.45 min Scan# 894
Delta R.T. -0.04 min
Lab File: VF062022.D
Acq: 19 Mar 2019 17:18

Tgt Ion: 43 Resp: 153
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.2#





#62

4-Bromofluorobenzene

Concen: 28.257 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

Instrument :

MSVOA_F

ClientSampleId :

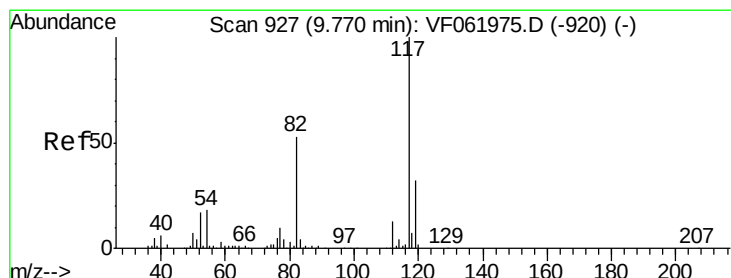
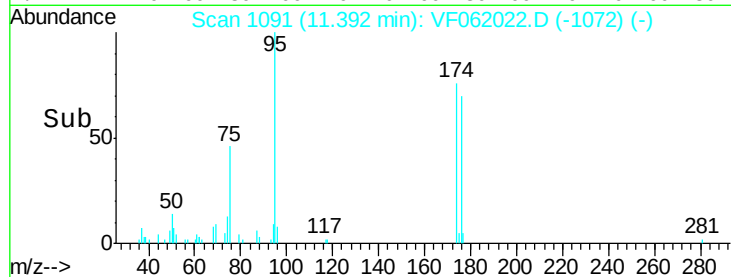
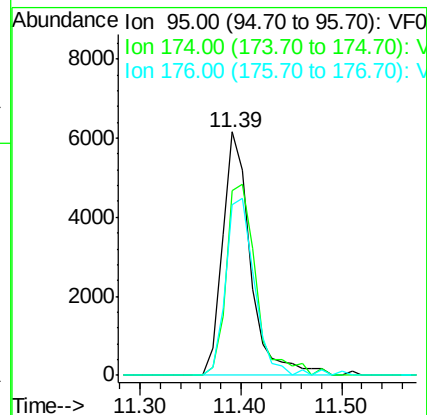
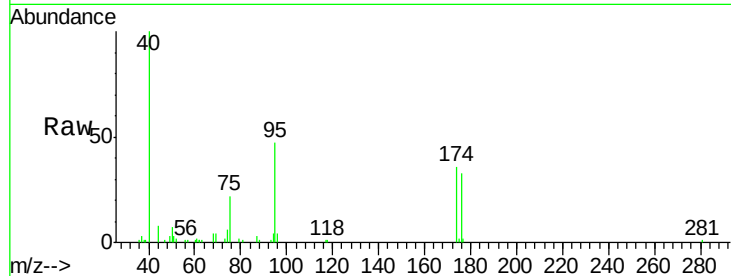
Tot Ion: 95 Resp: 11932

Ion Ratio Lower Upper

95 100

174 75.7 0.0 149.4

176 70.1 0.0 143.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.75 min Scan# 925

Delta R.T. -0.02 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

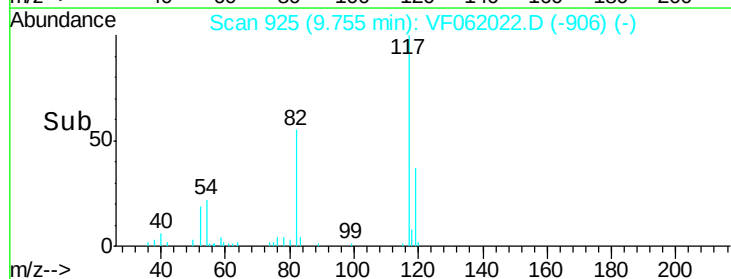
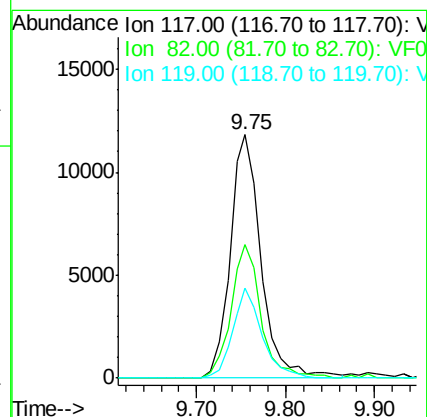
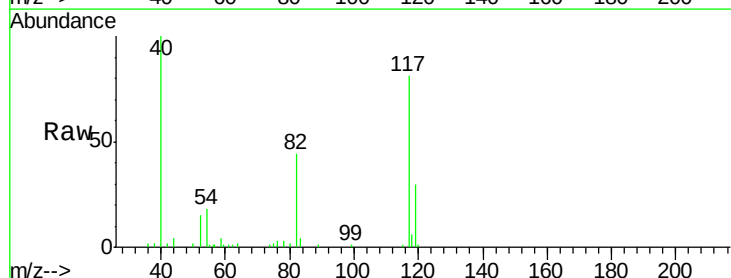
Tgt Ion: 117 Resp: 28654

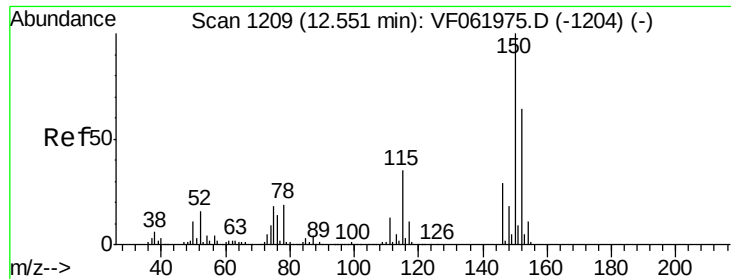
Ion Ratio Lower Upper

117 100

82 54.7 42.5 63.7

119 37.0 25.4 38.0



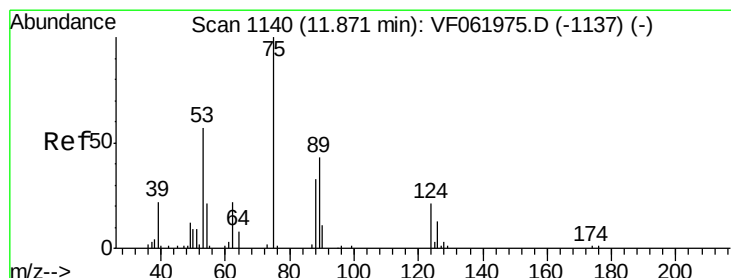
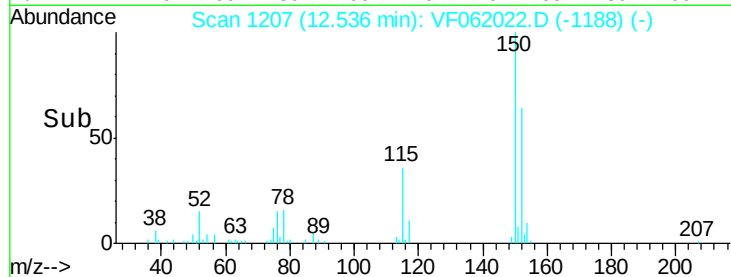
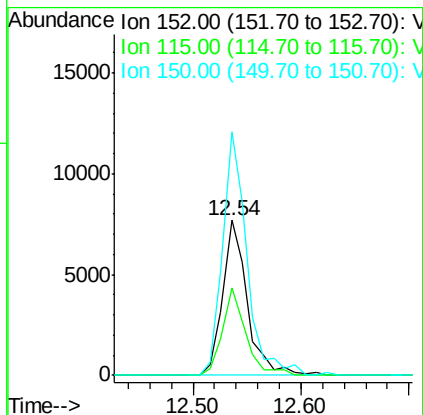
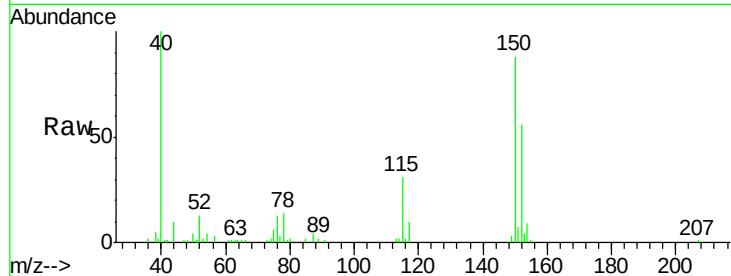


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.02 min
Lab File: VF062022.D
Acq: 19 Mar 2019 17:18

Instrument :
MSVOA_F
ClientSampleId :

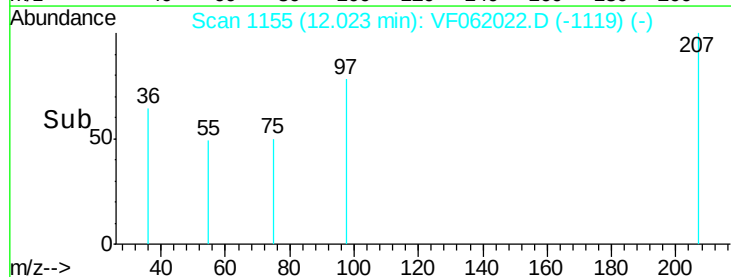
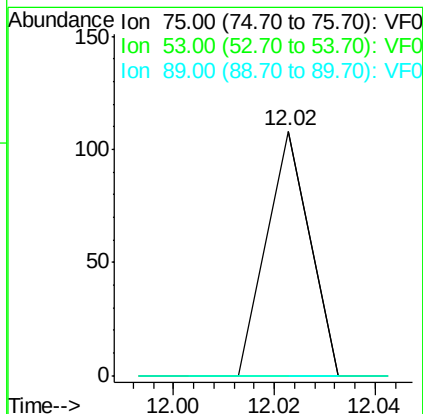
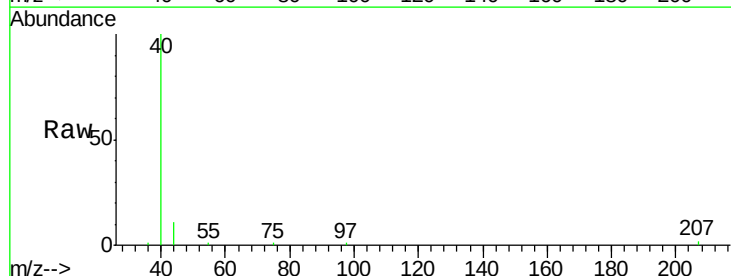
Tot Ion:152 Resp: 12188
Ion Ratio Lower Upper
152 100
115 56.3 27.3 81.9
150 157.0 0.0 316.2

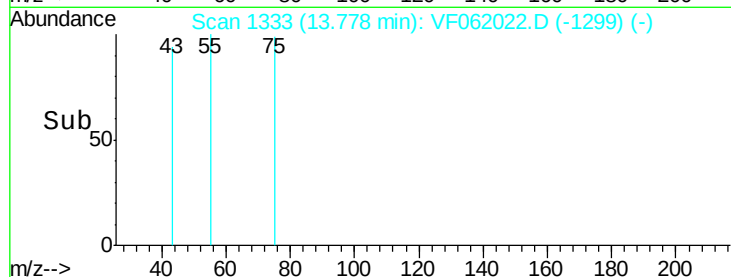
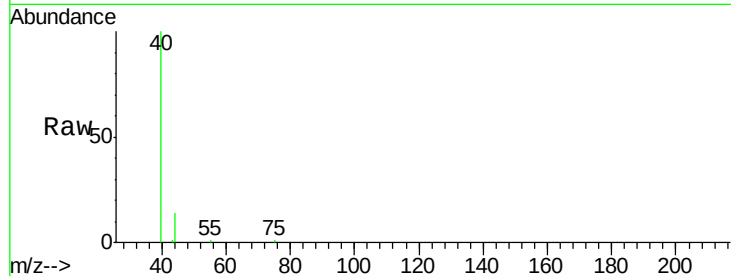
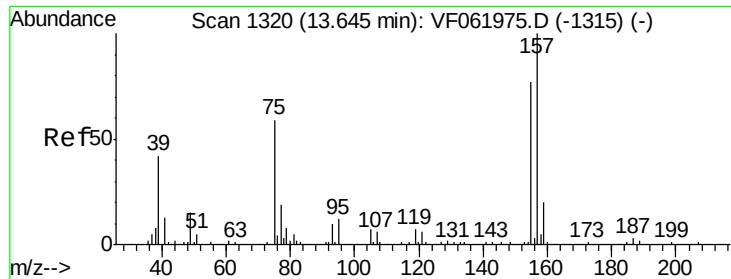


#81

trans-1,4-Dichloro-2-butene
Concen: 1.489 ug/l
RT: 12.02 min Scan# 1155
Delta R.T. 0.15 min
Lab File: VF062022.D
Acq: 19 Mar 2019 17:18

Tgt Ion: 75 Resp: 64
Ion Ratio Lower Upper
75 100
53 0.0 49.0 73.6#
89 0.0 37.1 55.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.139 ug/l

RT: 13.78 min Scan# 1333

Delta R.T. 0.13 min

Lab File: VF062022.D

Acq: 19 Mar 2019 17:18

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

155 0.0 65.0 195.1#

157 0.0 84.7 254.0#

