

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031219\
 Data File : VF061923.D
 Acq On : 12 Mar 2019 23:52
 Operator : VA/AP
 Sample : K1871-01
 Misc : 6.91a/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-1

Quant Time: Mar 13 02:11:00 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

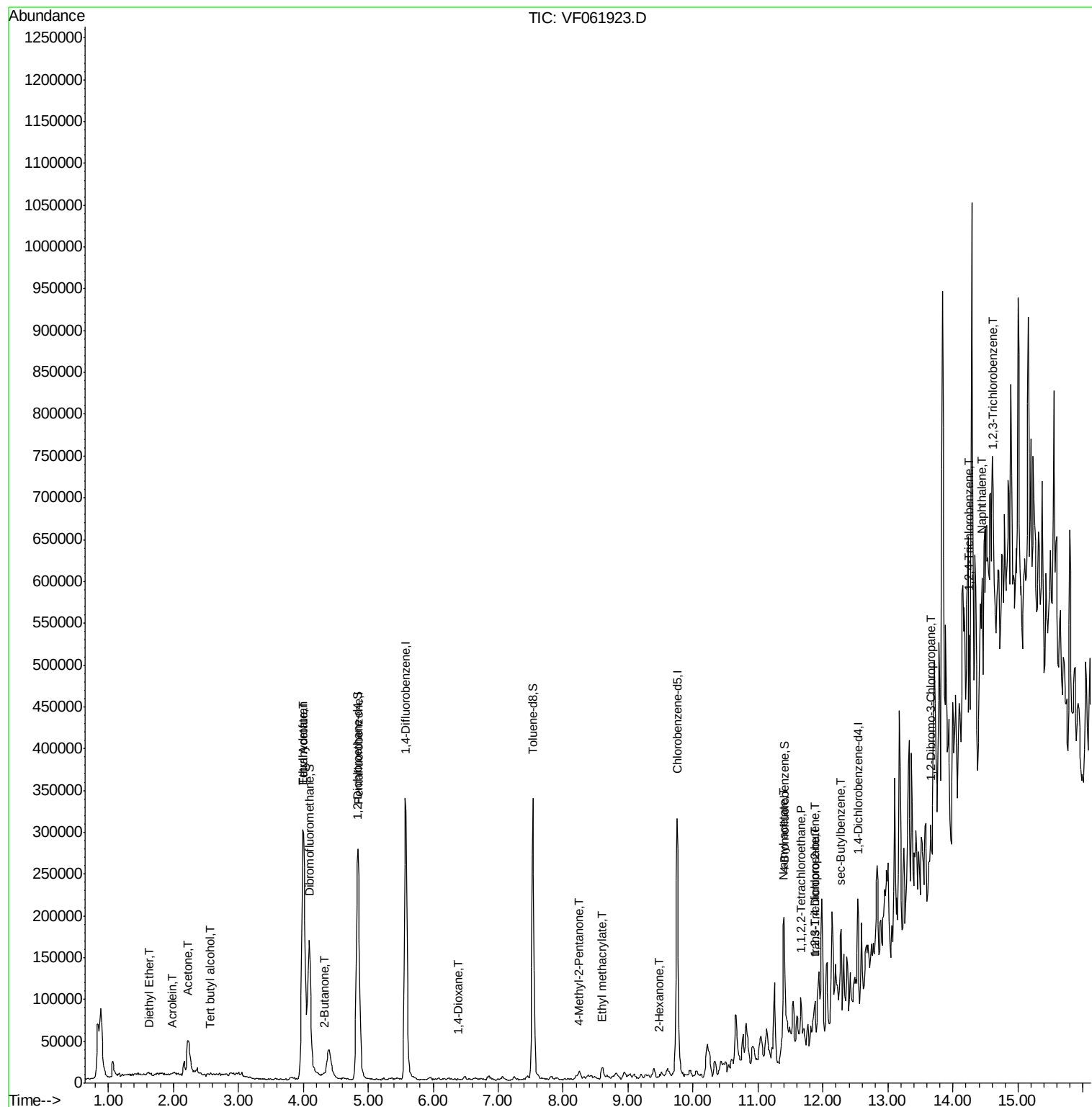
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	238214	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	414374	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	233560	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.53	152	39148	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	111376	64.20	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	128.40%	
35) Dibromofluoromethane	4.09	113	148643	51.40	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	102.80%	
50) Toluene-d8	7.54	98	286218	33.30	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	66.60%	
62) 4-Bromofluorobenzene	11.39	95	86549	25.71	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	51.42%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.62	74	1210	1.619	ug/l #	45
11) Tert butyl alcohol	2.57	59	806	8.186	ug/l #	40
13) Acrolein	1.99	56	309	2.477	ug/l #	38
16) Acetone	2.22	43	47381	130.387	ug/l #	89
18) Methyl Acetate	2.35	43	5668	Below Cal	#	72
20) Methylene Chloride	2.17	84	7565	Below Cal		95
25) 2-Butanone	4.32	43	5397	7.302	ug/l #	91
29) Tetrahydrofuran	4.00	42	6746	21.162	ug/l #	61
37) Ethyl Acetate	4.01	43	19573	11.913	ug/l #	81
49) 1,4-Dioxane	6.38	88	64	5.462	ug/l #	13
51) 4-Methyl-2-Pentanone	8.25	43	6426	4.591	ug/l #	85
56) Ethyl methacrylate	8.60	69	7208	3.667	ug/l #	74
59) 2-Hexanone	9.47	43	2136	2.115	ug/l #	49
74) N-amyl acetate	11.38	43	5526	8.906	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	11.66	83	12474	27.848	ug/l #	31
76) 1,2,3-Trichloropropane	11.88	75	418	1.367	ug/l #	1
81) trans-1,4-Dichloro-2-buten	11.88	75	418	2.990	ug/l #	1
85) sec-Butylbenzene	12.29	105	6309	2.110	ug/l #	63
92) 1,2-Dibromo-3-Chloropropan	13.67	75	482	9.497	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.26	180	6031	7.372	ug/l	69
95) Naphthalene	14.45	128	2251	1.545	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.63	180	18510	24.506	ug/l #	42

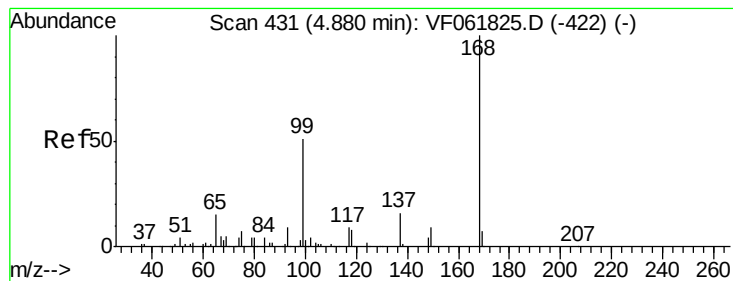
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

Instrument :

MSVOA_F

ClientSampleId :

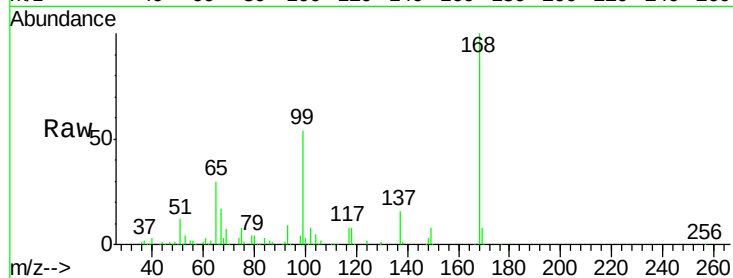
TP-1

Tot Ion:168 Resp: 238214

Ion Ratio Lower Upper

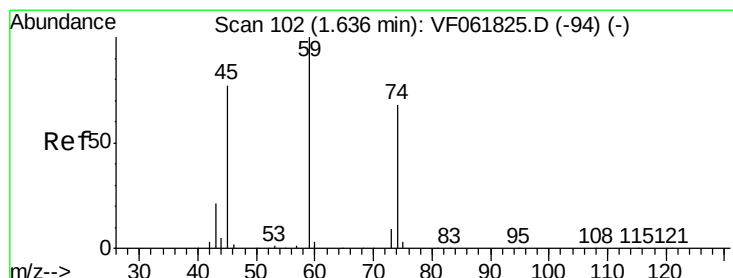
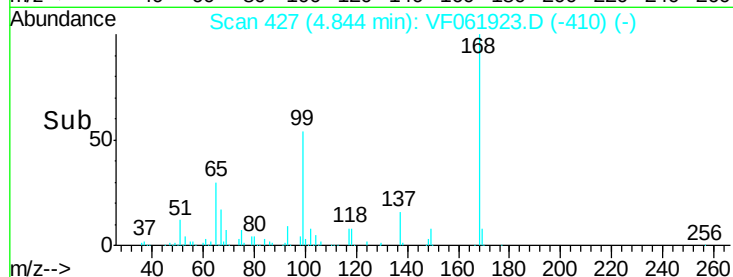
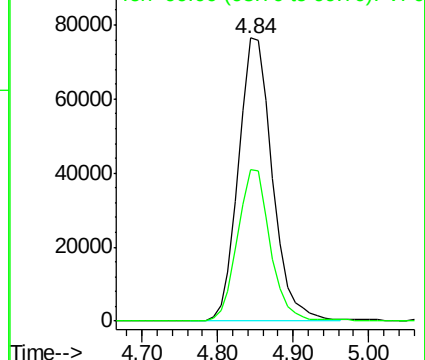
168 100

99 53.6 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 1.619 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.02 min

Lab File: VF061923.D

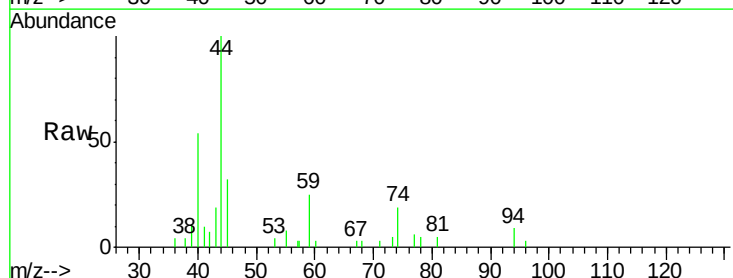
Acq: 12 Mar 2019 23:52

Tgt Ion: 74 Resp: 1210

Ion Ratio Lower Upper

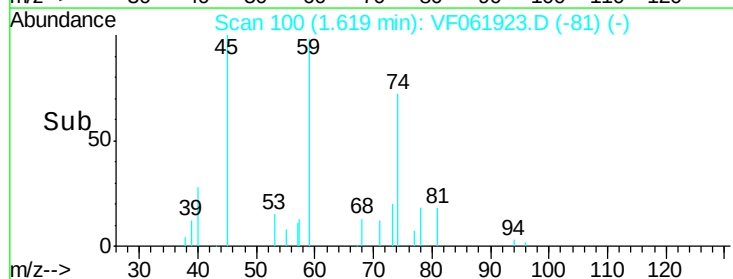
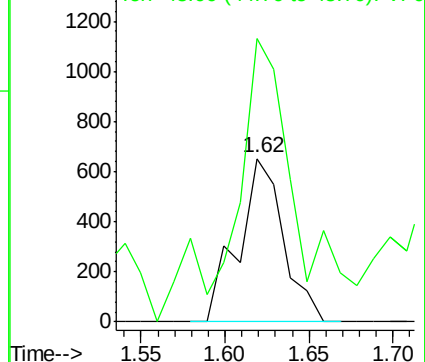
74 100

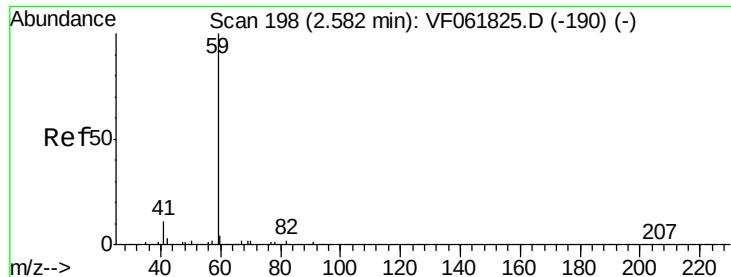
45 173.6 57.2 171.6#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



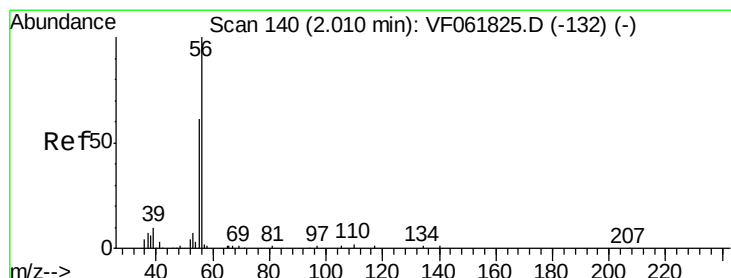
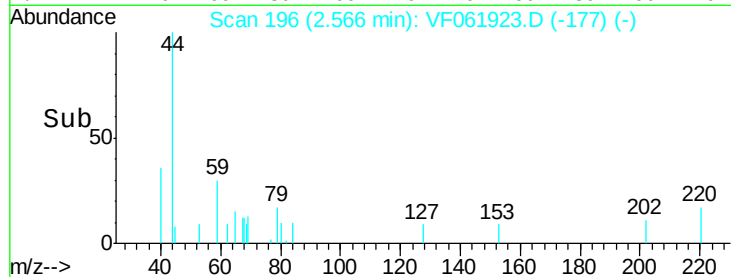
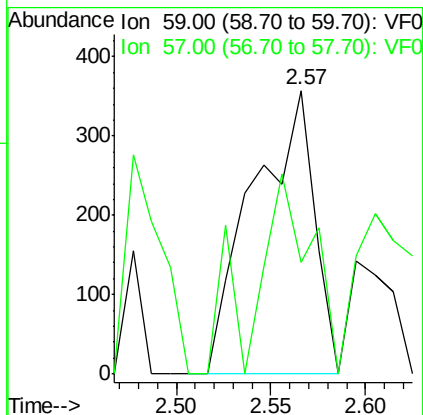
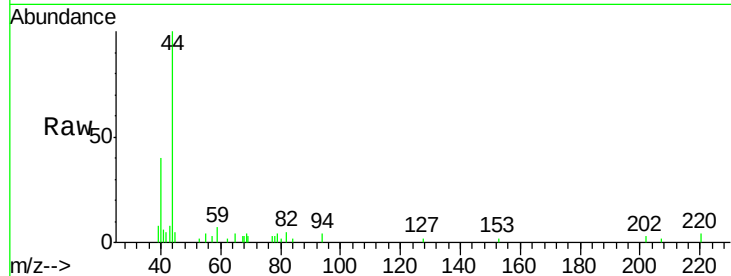


#11

Tert butyl alcohol
Concen: 8.186 ug/l
RT: 2.57 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061923.D
Acq: 12 Mar 2019 23:52

Instrument :
MSVOA_F
ClientSampled :
TP-1

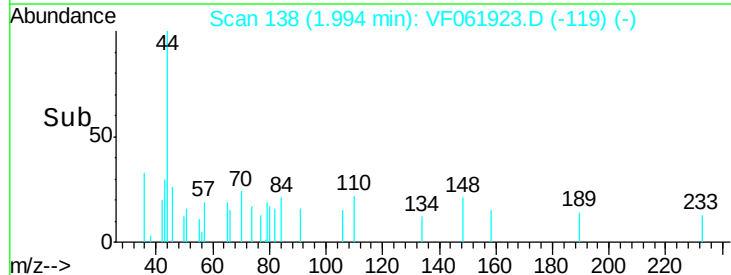
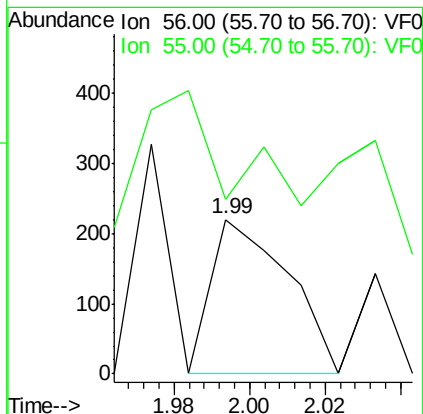
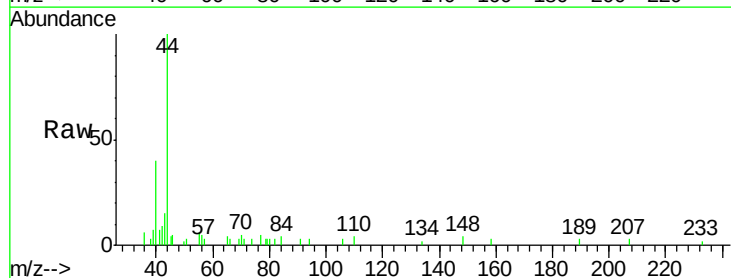
Tot Ion: 59 Resp: 806
Ion Ratio Lower Upper
59 100
57 39.5 11.8 17.6#

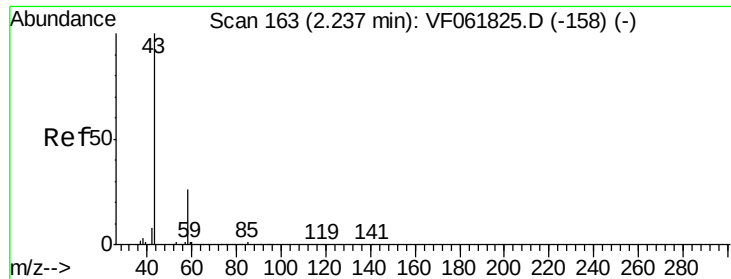


#13

Acrolein
Concen: 2.477 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.02 min
Lab File: VF061923.D
Acq: 12 Mar 2019 23:52

Tgt Ion: 56 Resp: 309
Ion Ratio Lower Upper
56 100
55 112.7 51.3 76.9#





#16

Acetone

Concen: 130.387 ug/l

RT: 2.22 min Scan# 161

Delta R.T. -0.02 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

Instrument :

MSVOA_F

ClientSampleId :

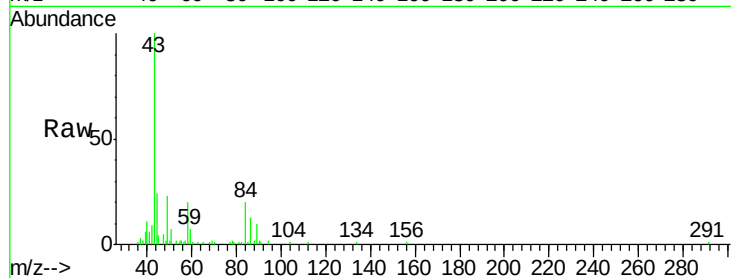
TP-1

Tot Ion: 43 Resp: 47381

Ion Ratio Lower Upper

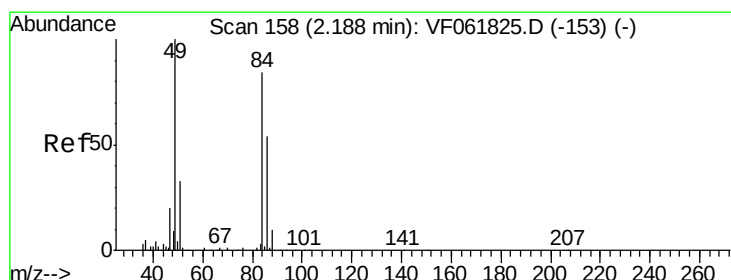
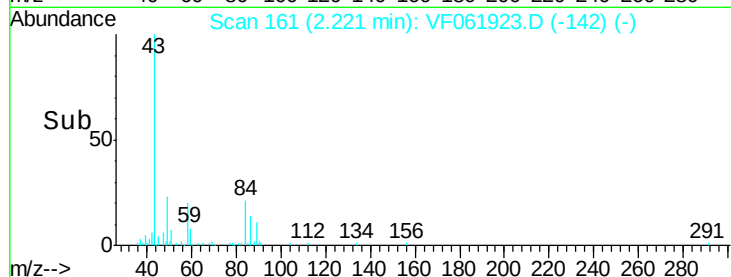
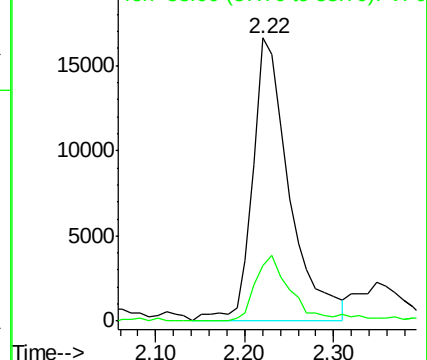
43 100

58 19.7 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.17 min Scan# 156

Delta R.T. -0.02 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

Tgt Ion: 84 Resp: 7565

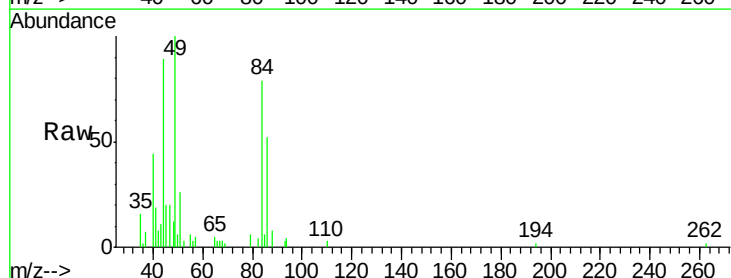
Ion Ratio Lower Upper

84 100

49 126.8 96.8 145.2

51 33.1 31.8 47.6

86 65.5 51.6 77.4

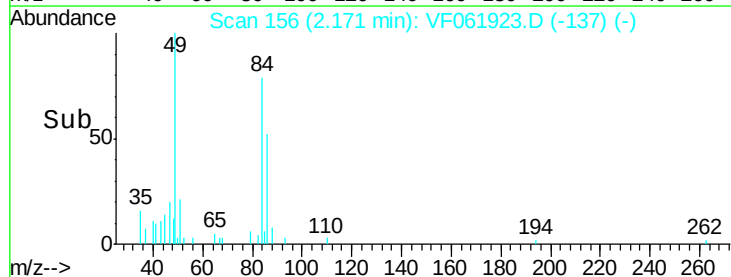
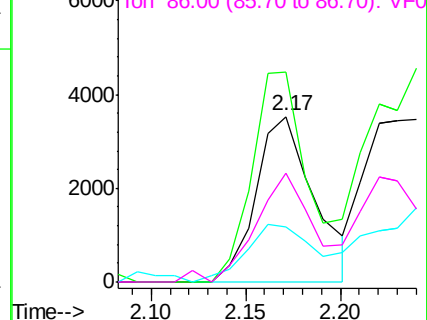


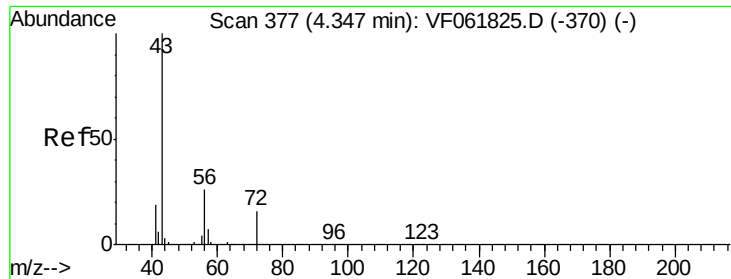
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 7.302 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.03 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

Instrument :

MSVOA_F

ClientSampled :

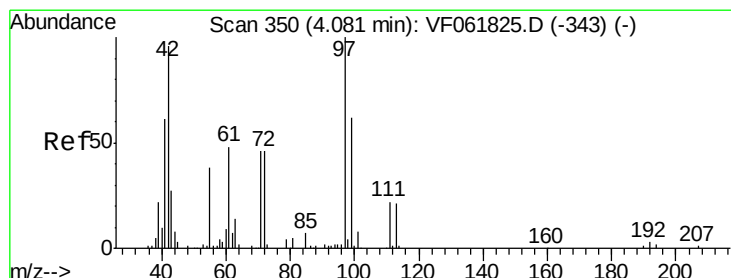
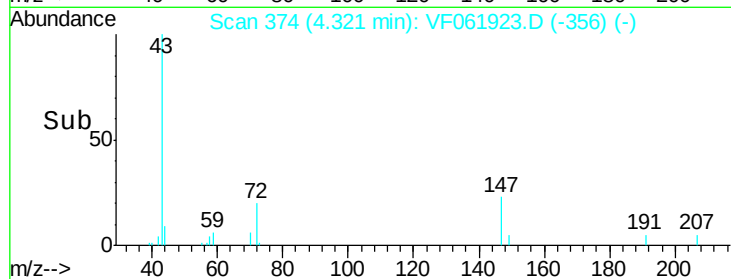
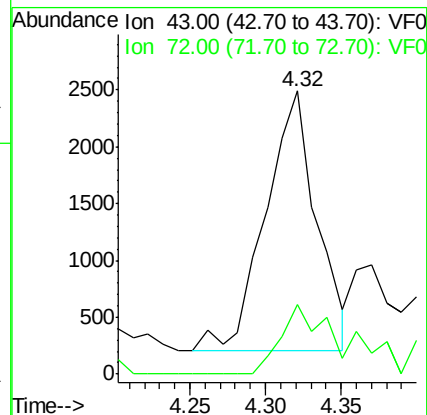
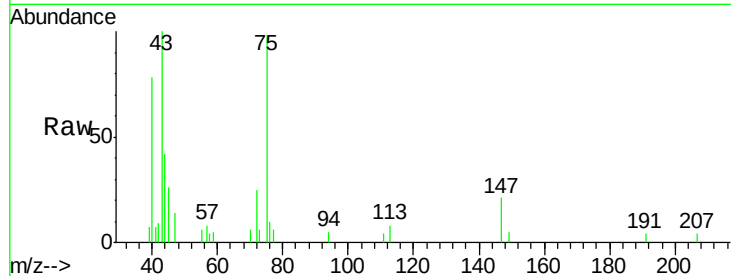
TP-1

Tot Ion: 43 Resp: 5397

Ion Ratio Lower Upper

43 100

72 24.5 16.2 24.4#



#29

Tetrahydrofuran

Concen: 21.162 ug/l

RT: 4.00 min Scan# 341

Delta R.T. -0.09 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

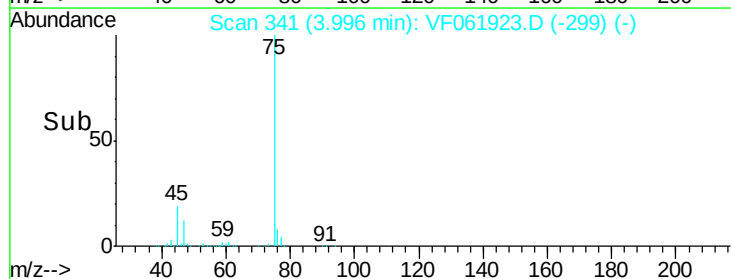
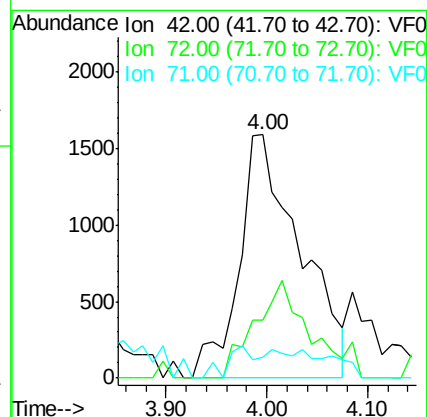
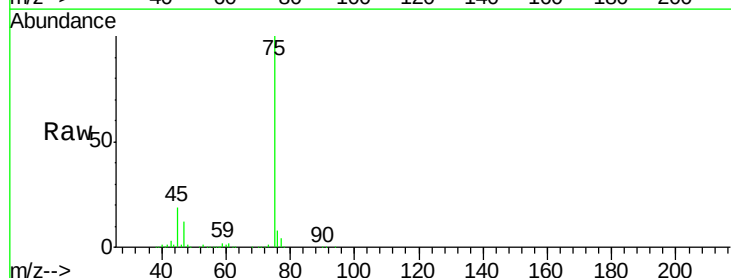
Tgt Ion: 42 Resp: 6746

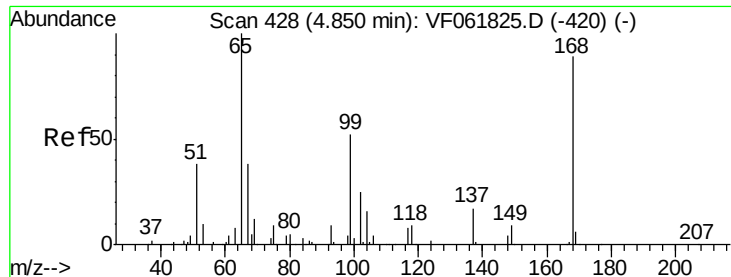
Ion Ratio Lower Upper

42 100

72 36.5 34.4 51.6

71 0.0 34.6 52.0#

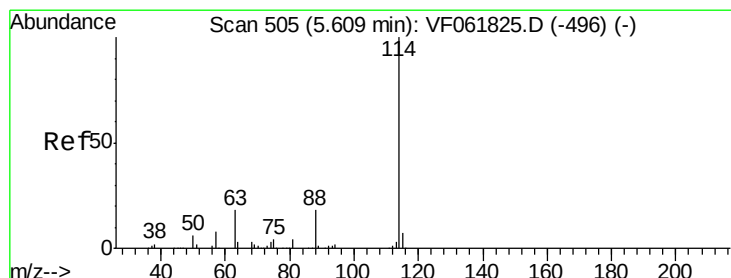
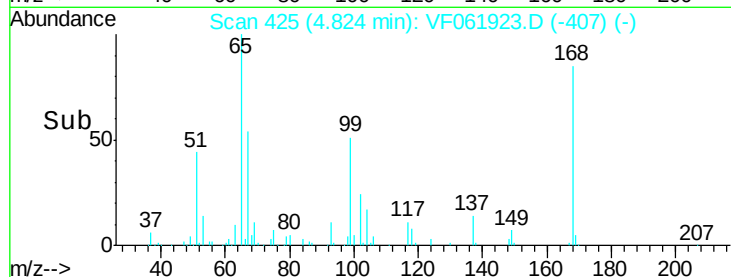
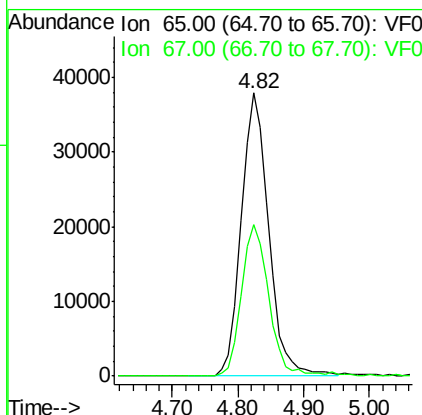
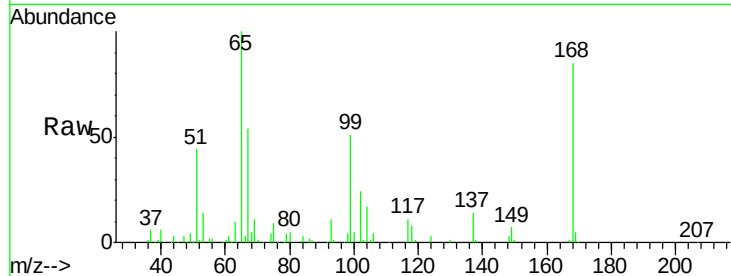




#33
 1,2-Dichloroethane-d4
 Concen: 64.202 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.03 min
 Lab File: VF061923.D
 Acq: 12 Mar 2019 23:52

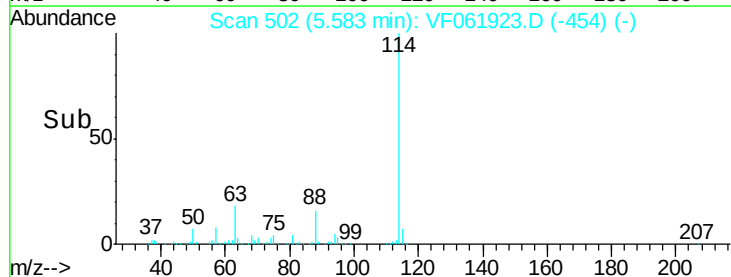
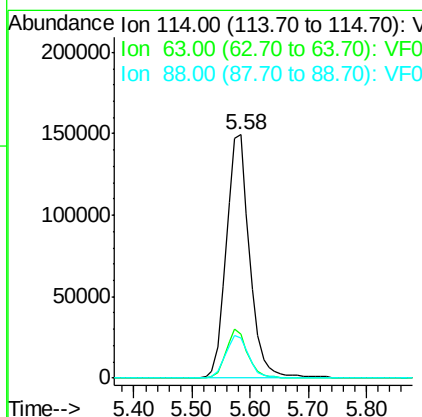
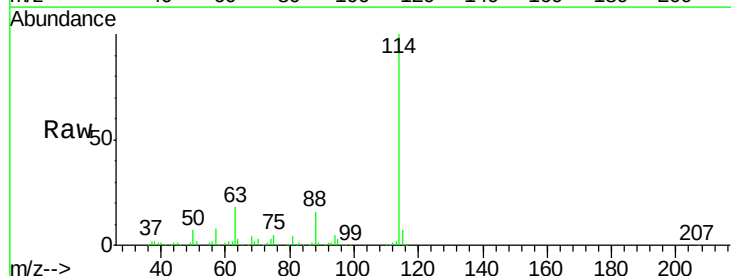
Instrument :
 MSVOA_F
 ClientSampled :
 TP-1

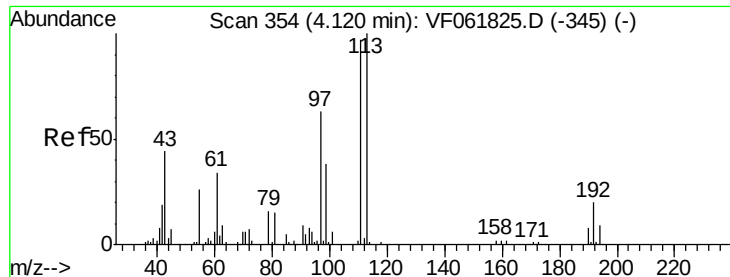
Tot Ion: 65 Resp: 111376
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061923.D
 Acq: 12 Mar 2019 23:52

Tgt Ion: 114 Resp: 414374
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 35.6
 88 16.5 0.0 35.6





#35

Dibromofluoromethane

Concen: 51.402 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

Instrument :

MSVOA_F

ClientSampleId :

TP-1

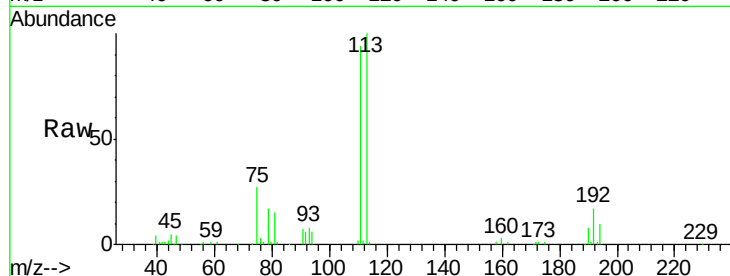
Tot Ion:113 Resp: 148643

Ion Ratio Lower Upper

113 100

111 93.9 77.6 116.4

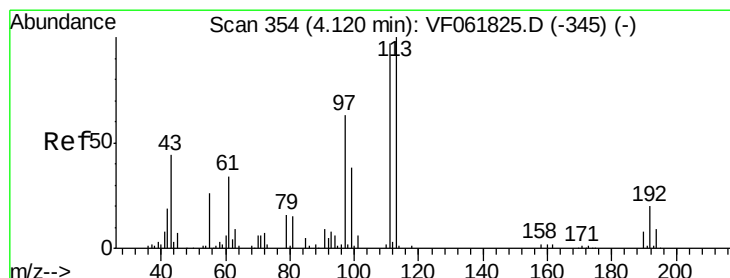
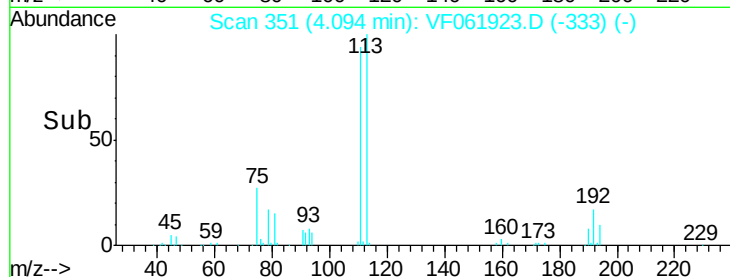
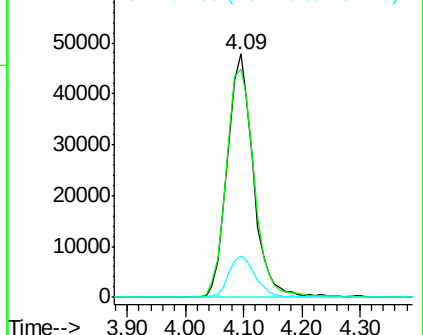
192 17.0 15.9 23.9



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: 11.913 ug/l

RT: 4.01 min Scan# 342

Delta R.T. -0.12 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

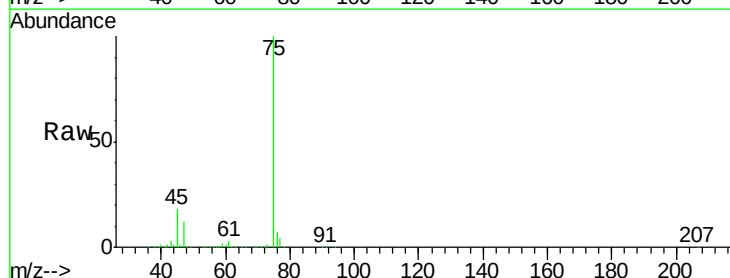
Tgt Ion: 43 Resp: 19573

Ion Ratio Lower Upper

43 100

61 91.4 60.7 91.1#

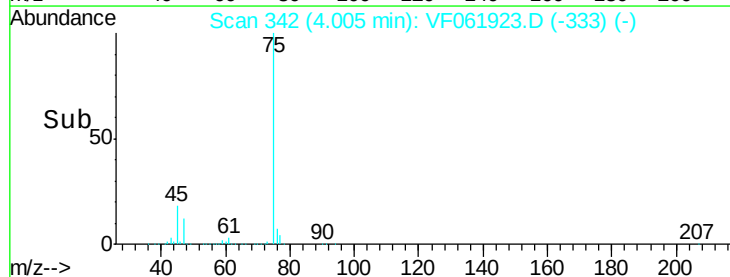
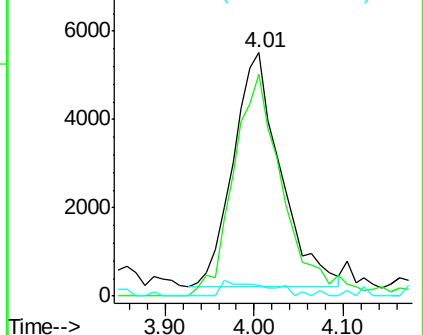
70 4.6 10.6 15.8#

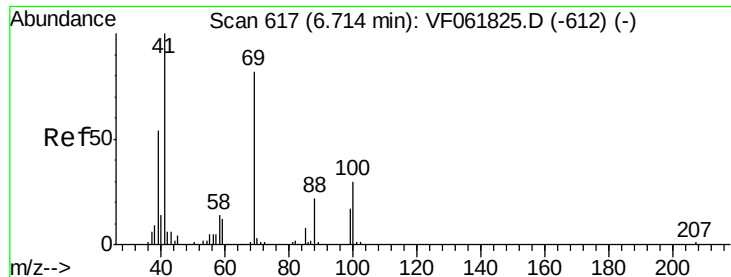


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

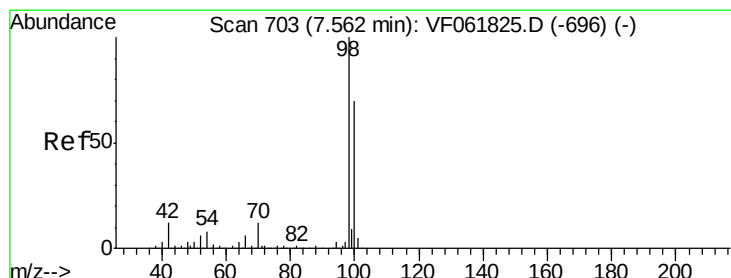
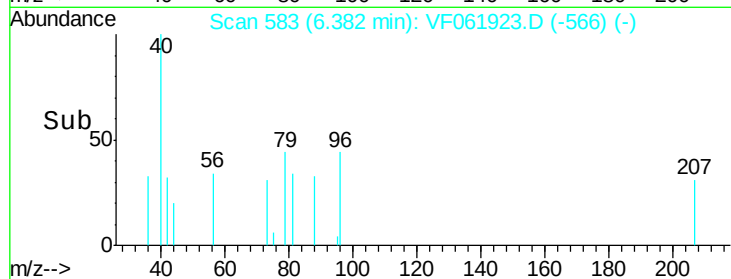
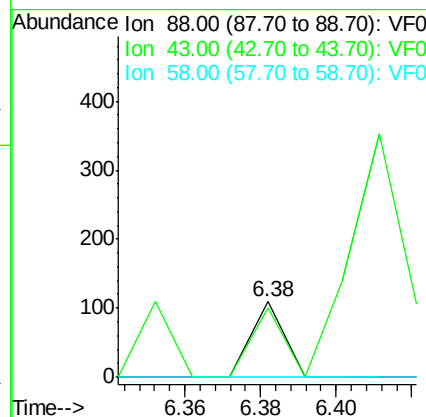
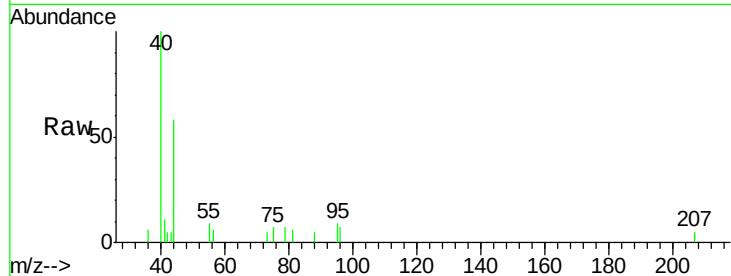




#49
1,4-Dioxane
Concen: 5.462 ug/l
RT: 6.38 min Scan# 583
Delta R.T. -0.33 min
Lab File: VF061923.D
Acq: 12 Mar 2019 23:52

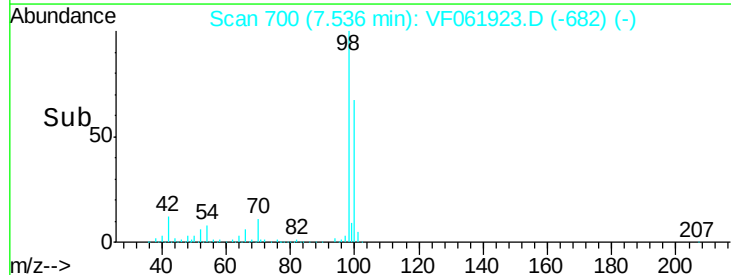
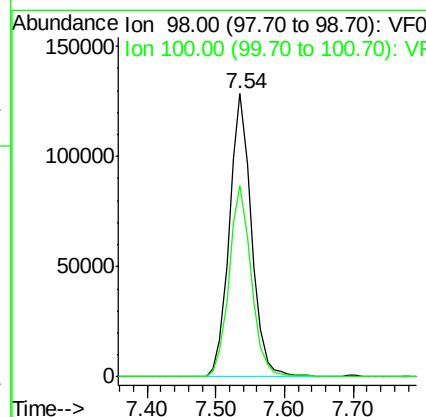
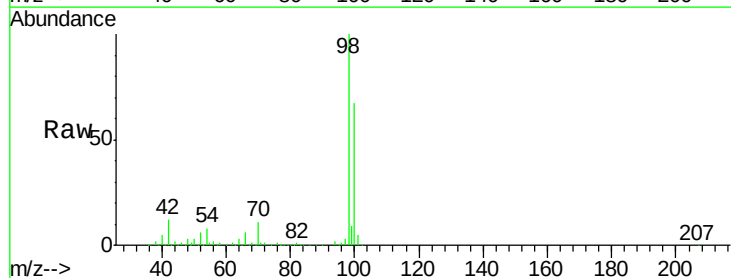
Instrument :
MSVOA_F
ClientSampleId :
TP-1

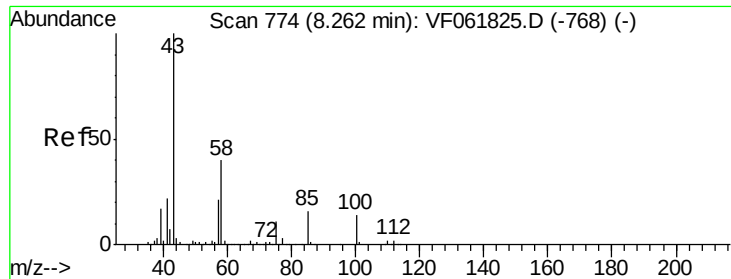
Tot Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 91.7 28.4 42.6#
58 0.0 50.7 76.1#



#50
Toluene-d8
Concen: 33.300 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061923.D
Acq: 12 Mar 2019 23:52

Tgt Ion: 98 Resp: 286218
Ion Ratio Lower Upper
98 100
100 67.4 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 4.591 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

Instrument :

MSVOA_F

ClientSampleId :

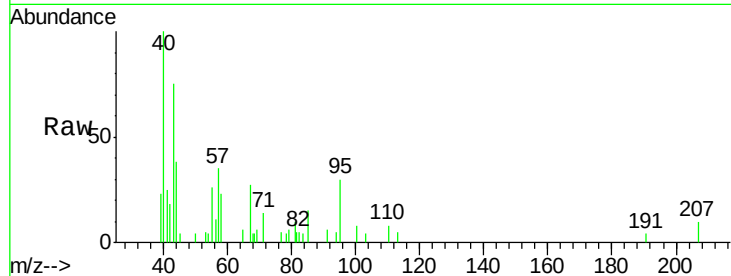
TP-1

Tot Ion: 43 Resp: 6426

Ion Ratio Lower Upper

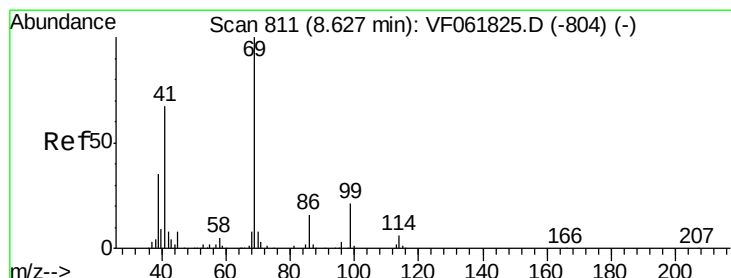
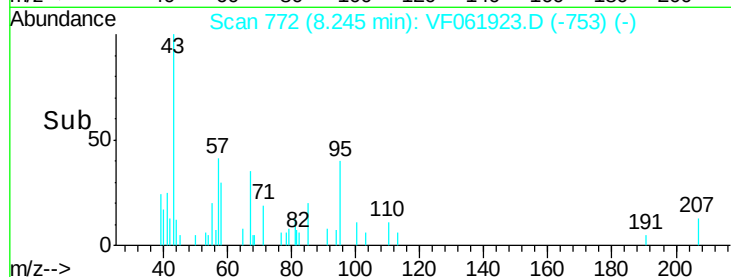
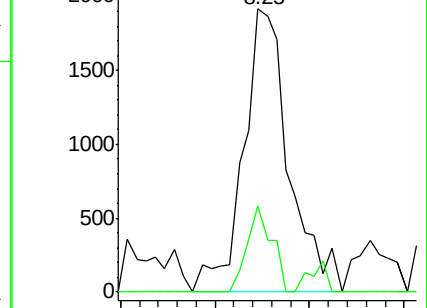
43 100

58 30.3 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 3.667 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.03 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

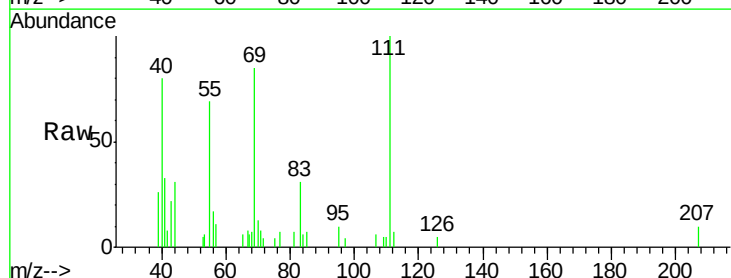
Tgt Ion: 69 Resp: 7208

Ion Ratio Lower Upper

69 100

41 39.1 53.9 80.9#

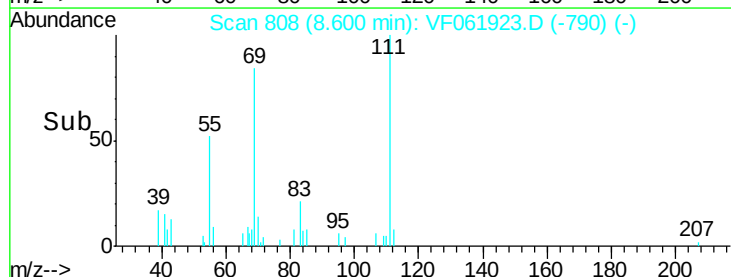
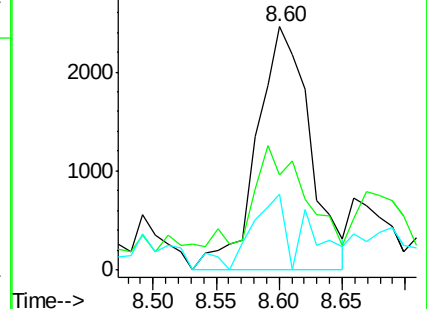
39 31.2 28.3 42.5

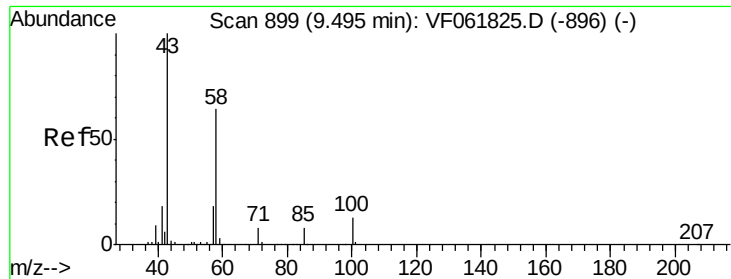


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

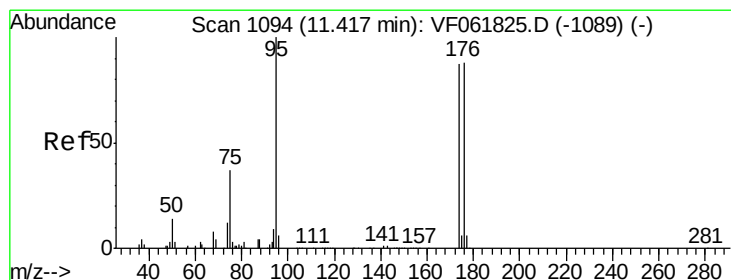
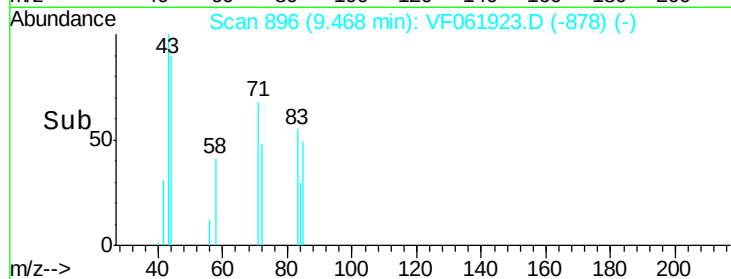
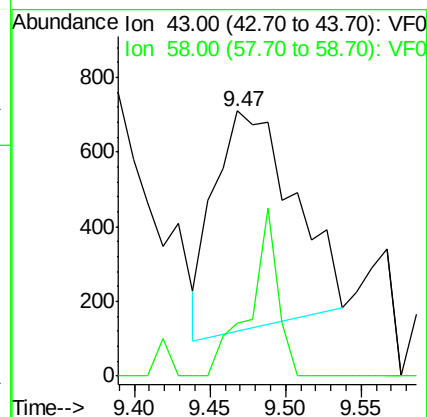
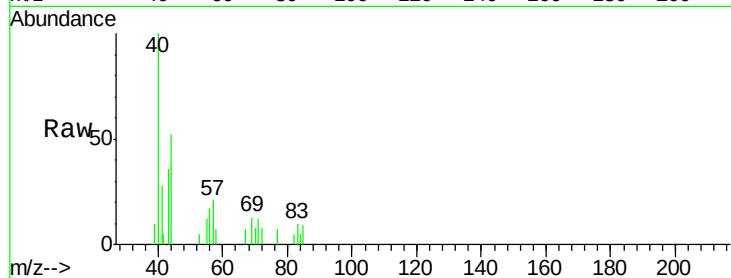




#59
2-Hexanone
Concen: 2.115 ug/l
RT: 9.47 min Scan# 896
Delta R.T. -0.03 min
Lab File: VF061923.D
Acq: 12 Mar 2019 23:52

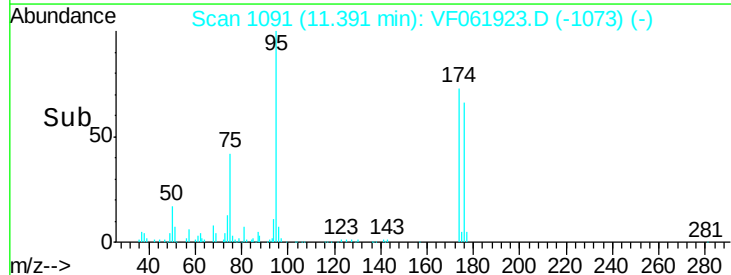
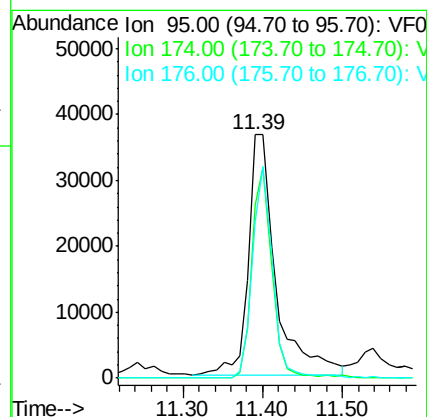
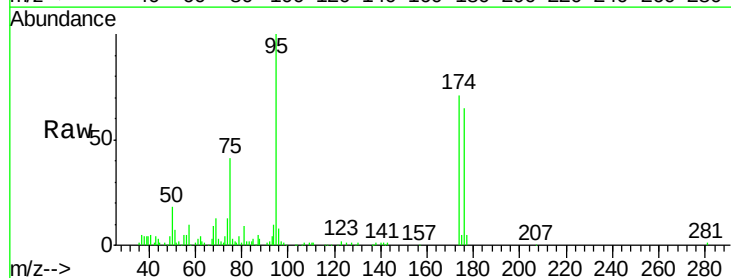
Instrument :
MSVOA_F
ClientSampled :
TP-1

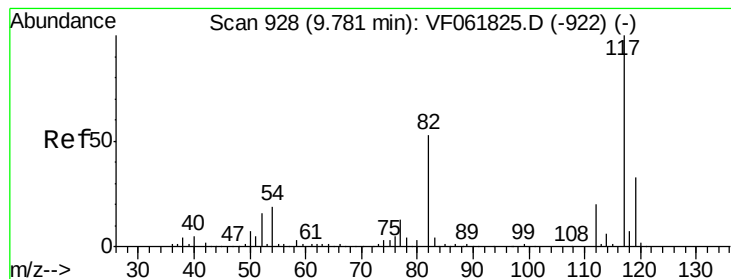
Tot Ion: 43 Resp: 2136
Ion Ratio Lower Upper
43 100
58 20.0 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: 25.705 ug/l
RT: 11.39 min Scan# 1091
Delta R.T. -0.03 min
Lab File: VF061923.D
Acq: 12 Mar 2019 23:52

Tgt Ion: 95 Resp: 86549
Ion Ratio Lower Upper
95 100
174 71.2 0.0 174.0
176 64.6 0.0 175.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.75 min Scan# 925

Delta R.T. -0.03 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

Instrument :

MSVOA_F

ClientSampleId :

TP-1

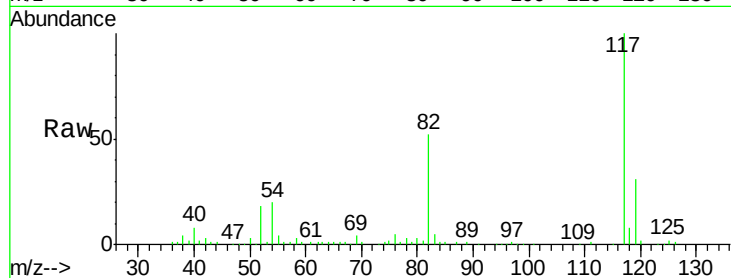
Tot Ion:117 Resp: 233560

Ion Ratio Lower Upper

117 100

82 52.1 42.6 63.8

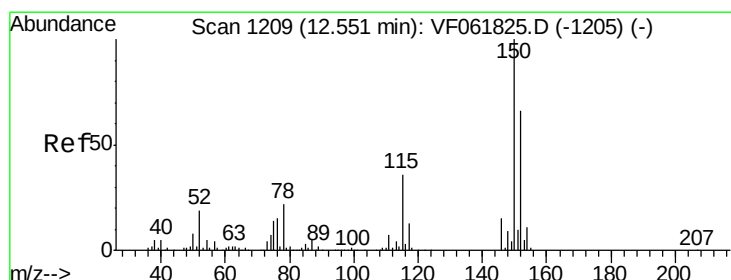
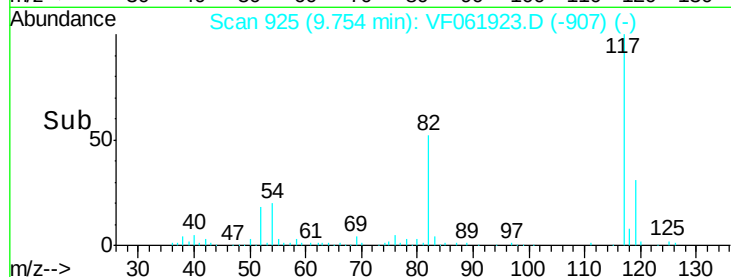
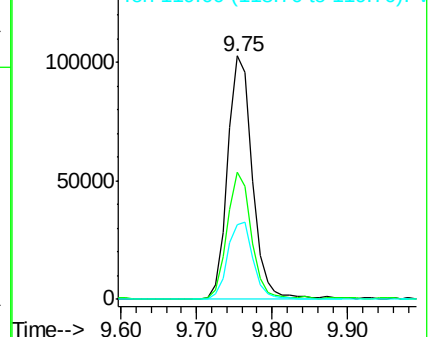
119 30.8 26.0 39.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.53 min Scan# 1207

Delta R.T. -0.02 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

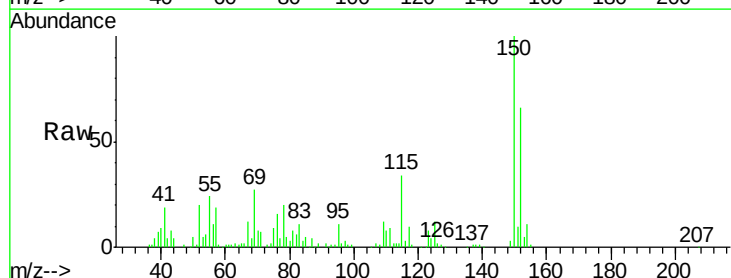
Tgt Ion:152 Resp: 39148

Ion Ratio Lower Upper

152 100

115 51.3 27.7 83.1

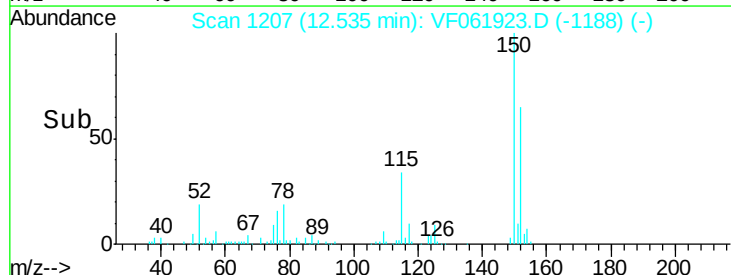
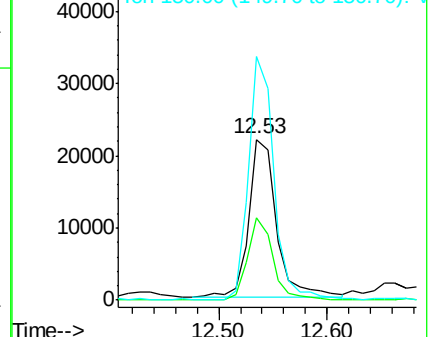
150 151.6 0.0 304.2

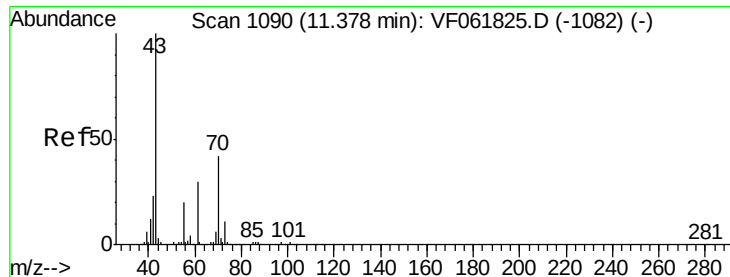


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 8.906 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

Instrument :

MSVOA_F

ClientSampled :

TP-1

Tot Ion: 43 Resp: 5526

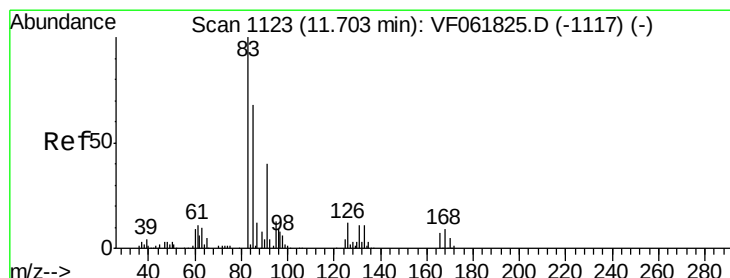
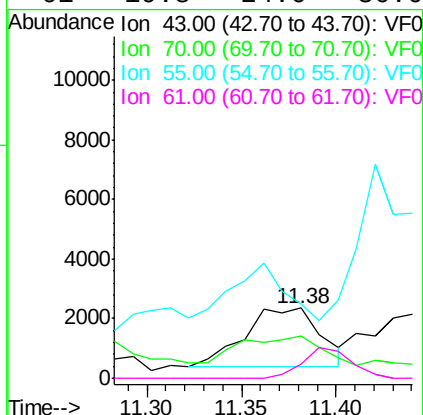
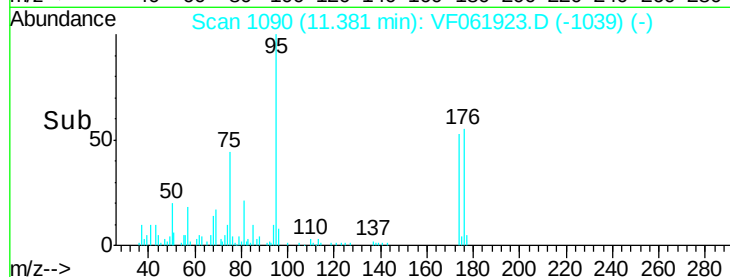
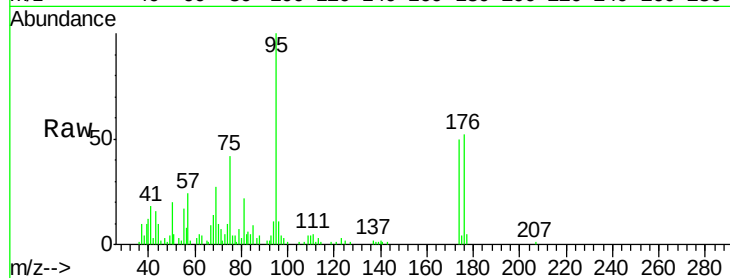
Ion Ratio Lower Upper

43 100

70 59.8 33.4 50.0#

55 106.0 16.3 24.5#

61 19.8 24.0 36.0#



#75

1,1,2,2-Tetrachloroethane

Concen: 27.848 ug/l

RT: 11.66 min Scan# 1118

Delta R.T. -0.05 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

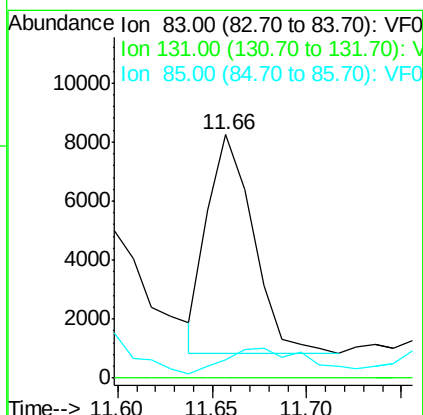
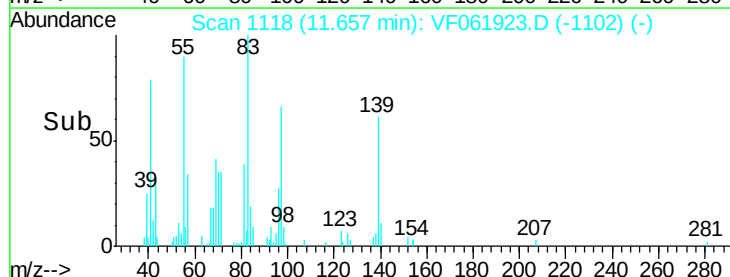
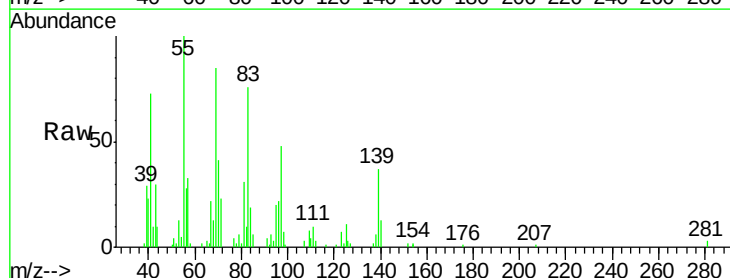
Tgt Ion: 83 Resp: 12474

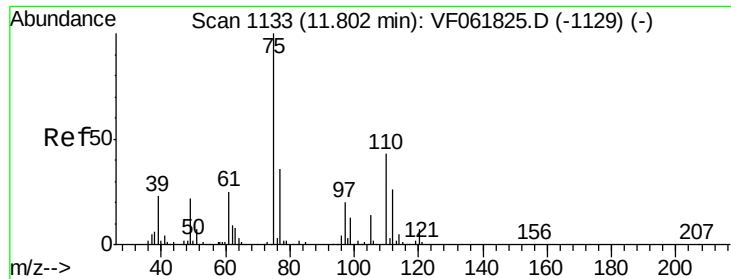
Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

85 7.6 34.2 102.6#

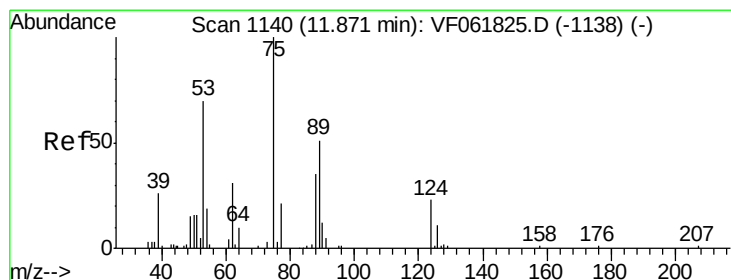
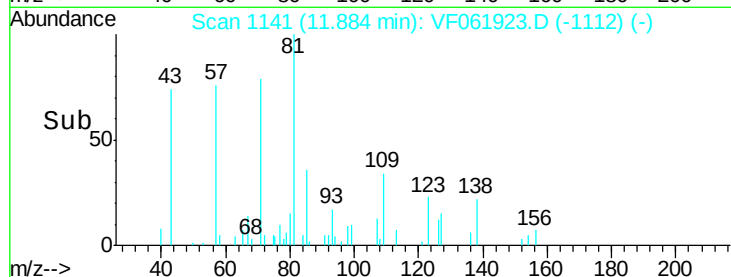
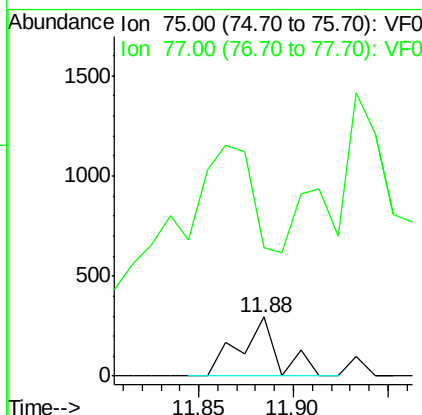
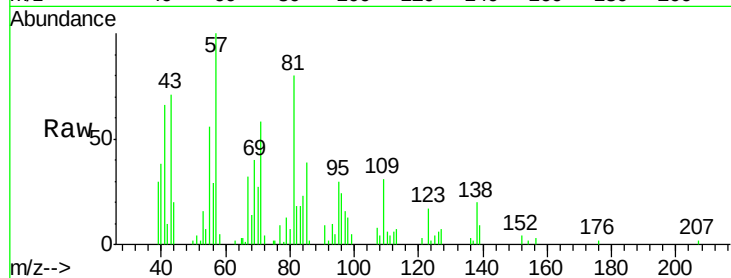




#76
 1,2,3-Trichloropropane
 Concen: 1.367 ug/l
 RT: 11.88 min Scan# 1141
 Delta R.T. 0.08 min
 Lab File: VF061923.D
 Acq: 12 Mar 2019 23:52

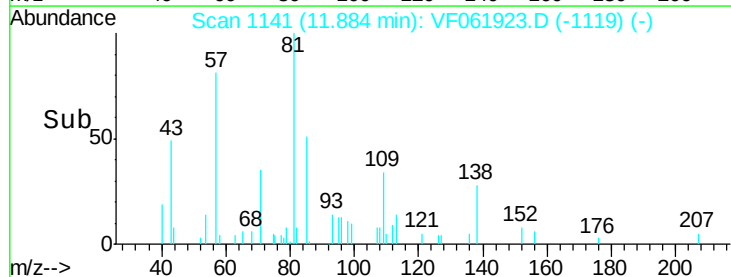
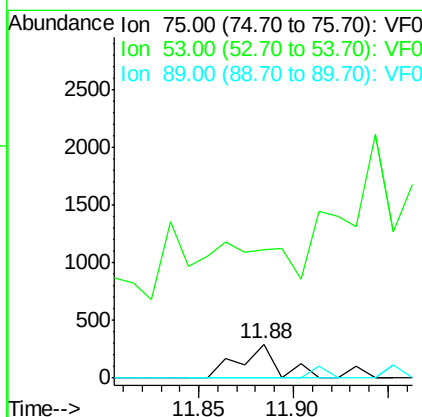
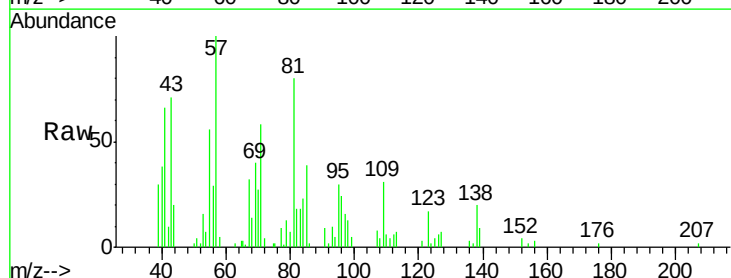
Instrument :
 MSVOA_F
 ClientSampled :
 TP-1

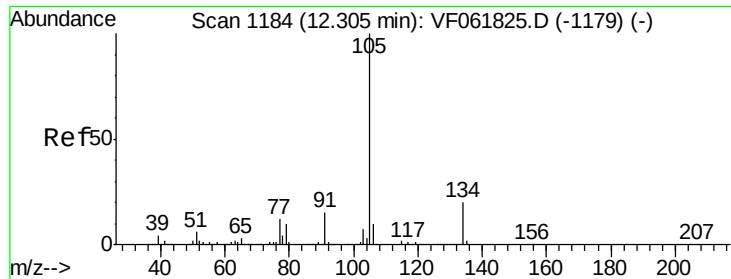
Tot Ion: 75 Resp: 418
 Ion Ratio Lower Upper
 75 100
 77 216.9 18.1 54.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 2.990 ug/l
 RT: 11.88 min Scan# 1141
 Delta R.T. 0.01 min
 Lab File: VF061923.D
 Acq: 12 Mar 2019 23:52

Tgt Ion: 75 Resp: 418
 Ion Ratio Lower Upper
 75 100
 53 375.6 58.6 88.0#
 89 0.0 41.4 62.0#





#85

sec-Butylbenzene

Concen: 2.110 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.02 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

Instrument :

MSVOA_F

ClientSampleId :

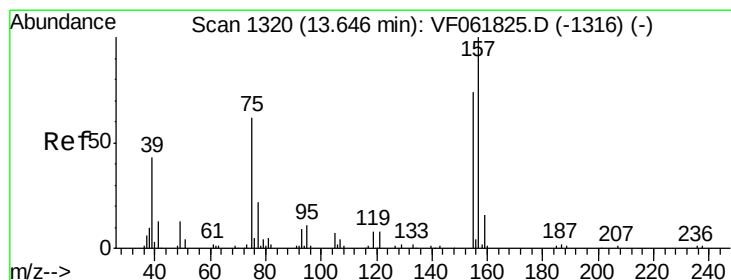
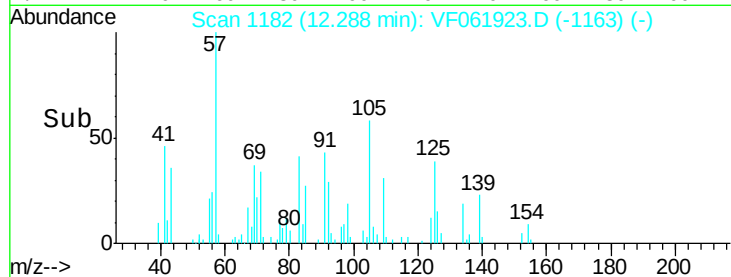
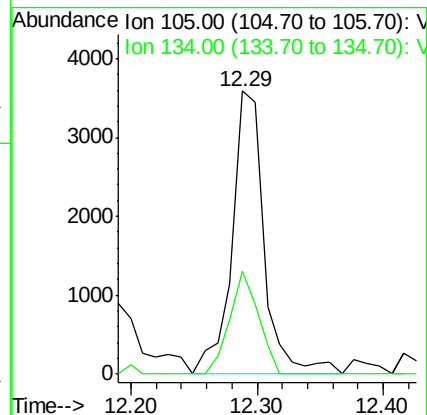
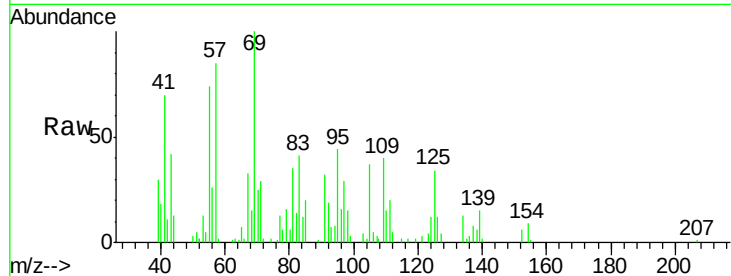
TP-1

Tot Ion:105 Resp: 6309

Ion Ratio Lower Upper

105 100

134 36.4 9.8 29.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.497 ug/l

RT: 13.67 min Scan# 1322

Delta R.T. 0.02 min

Lab File: VF061923.D

Acq: 12 Mar 2019 23:52

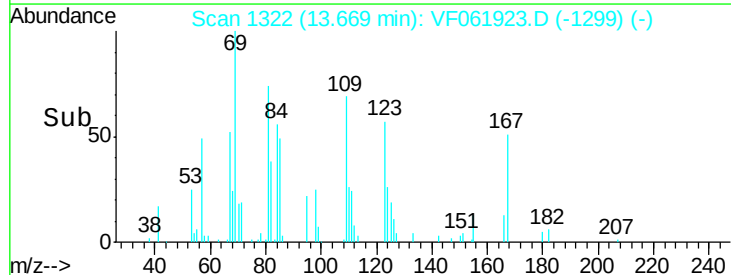
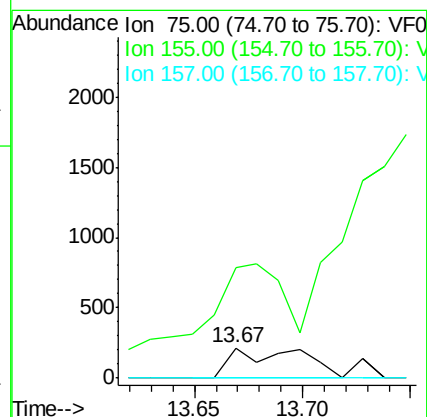
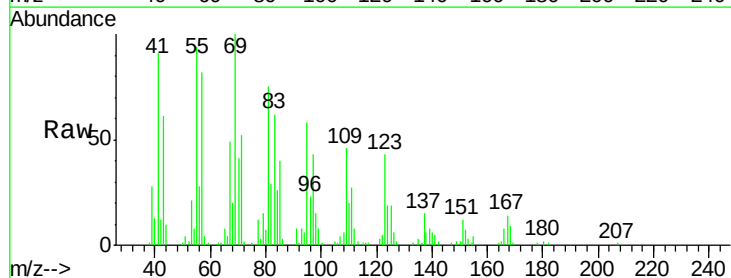
Tgt Ion: 75 Resp: 482

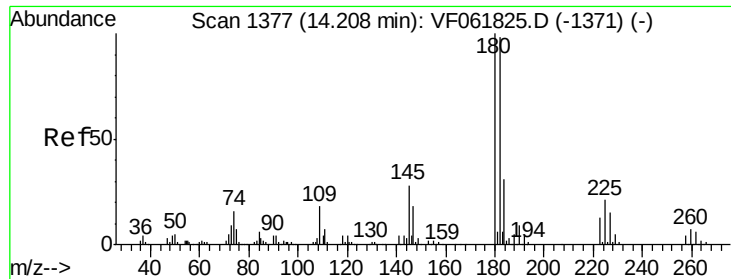
Ion Ratio Lower Upper

75 100

155 367.6 59.8 179.4#

157 0.0 81.2 243.4#

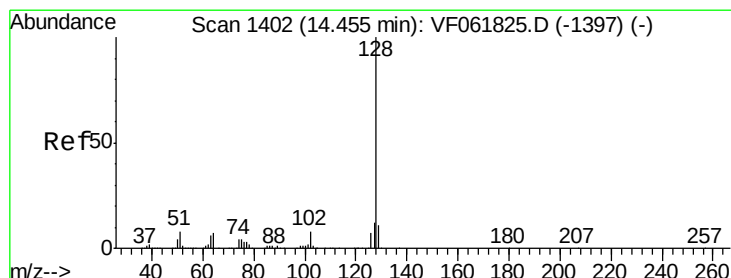
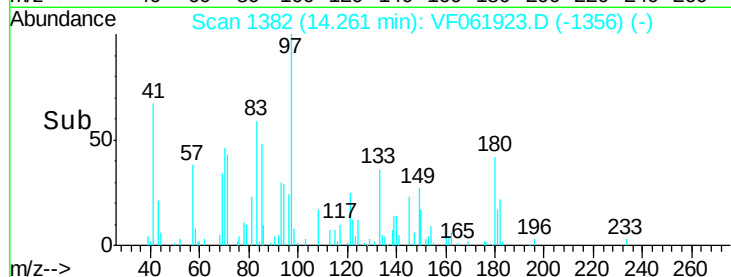
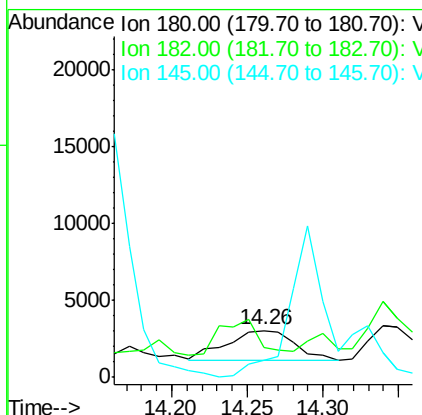
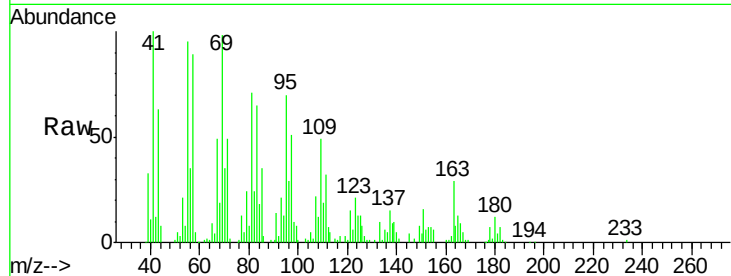




#93
 1,2,4-Trichlorobenzene
 Concen: 7.372 ug/l
 RT: 14.26 min Scan# 1382
 Delta R.T. 0.05 min
 Lab File: VF061923.D
 Acq: 12 Mar 2019 23:52

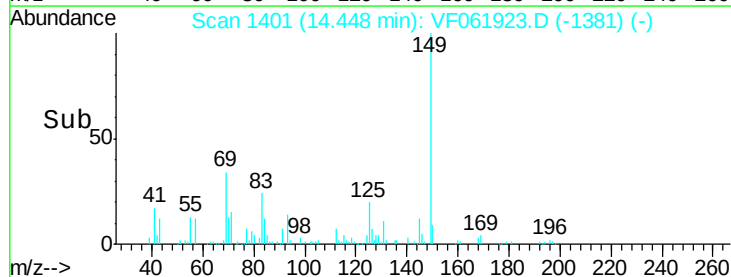
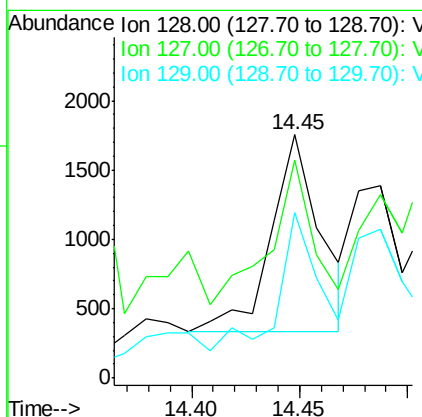
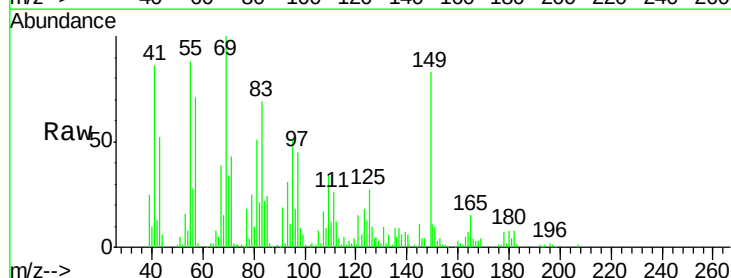
Instrument :
 MSVOA_F
 ClientSampled :
 TP-1

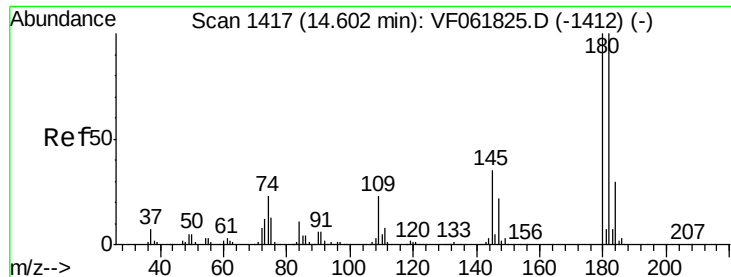
Tot Ion:180 Resp: 6031
 Ion Ratio Lower Upper
 180 100
 182 63.4 49.0 147.2
 145 36.7 14.1 42.4



#95
 Naphthalene
 Concen: 1.545 ug/l
 RT: 14.45 min Scan# 1401
 Delta R.T. -0.01 min
 Lab File: VF061923.D
 Acq: 12 Mar 2019 23:52

Tgt Ion:128 Resp: 2251
 Ion Ratio Lower Upper
 128 100
 127 89.5 9.3 13.9#
 129 67.7 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 24.506 ug/l
 RT: 14.63 min Scan# 1419
 Delta R.T. 0.02 min
 Lab File: VF061923.D
 Acq: 12 Mar 2019 23:52

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-1

Tot Ion:180 Resp: 18510
 Ion Ratio Lower Upper
 180 100
 182 31.6 50.2 150.7#
 145 20.1 17.5 52.5

