

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061101.D
 Acq On : 20 Dec 2018 11:46
 Operator : VA/AP
 Sample : VF1220SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 21 06:39:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	262140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	474047	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	427565	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	227740	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	172582	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
35) Dibromofluoromethane	4.11	113	199319	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	
50) Toluene-d8	7.55	98	528813	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
62) 4-Bromofluorobenzene	11.41	95	242667	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	

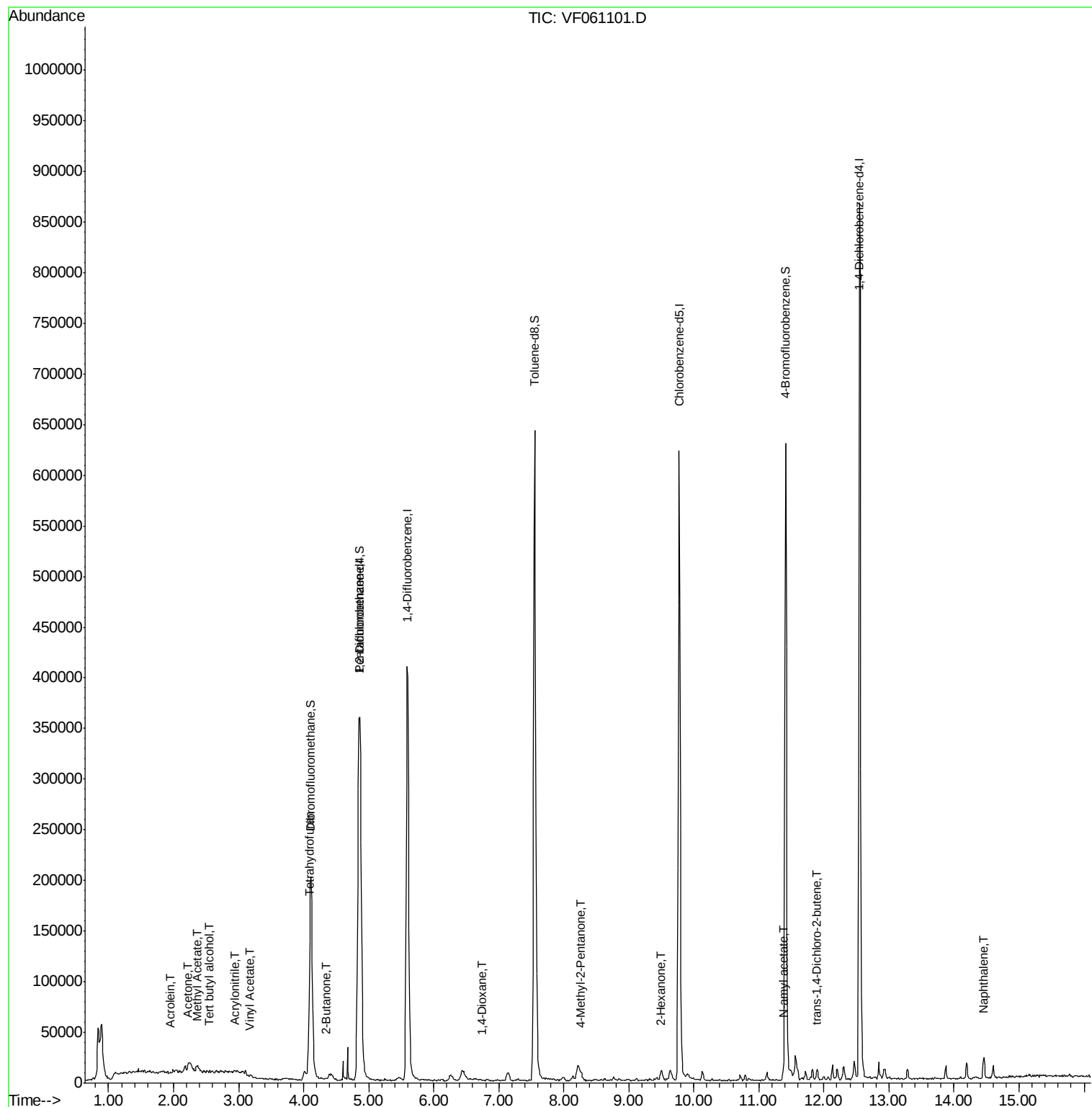
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	147	1.080	ug/l #	1
13) Acrolein	1.94	56	351	3.570	ug/l	98
15) Acrylonitrile	2.93	53	1290	4.100	ug/l #	48
16) Acetone	2.24	43	6739	9.998	ug/l	99
18) Methyl Acetate	2.36	43	1772	1.271	ug/l #	66
20) Methylene Chloride	2.18	84	2682	Below Cal		97
23) Vinyl Acetate	3.18	43	3718	1.006	ug/l #	78
25) 2-Butanone	4.35	43	3542	3.240	ug/l	100
29) Tetrahydrofuran	4.08	42	1665	3.742	ug/l #	82
49) 1,4-Dioxane	6.75	88	70	5.002	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	6049	3.192	ug/l	94
59) 2-Hexanone	9.50	43	8531	6.226	ug/l	83
70) Styrene	10.79	104	2259	Below Cal		98
74) N-amyl acetate	11.37	43	5919	1.358	ug/l #	95
81) trans-1,4-Dichloro-2-buten	11.89	75	1271	1.220	ug/l #	11
87) 1,3-Dichlorobenzene	12.48	146	3752	Below Cal		93
95) Naphthalene	14.46	128	12745	1.303	ug/l #	96

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061101.D

Acq: 20 Dec 2018 11:46

Instrument :

MSVOA_F

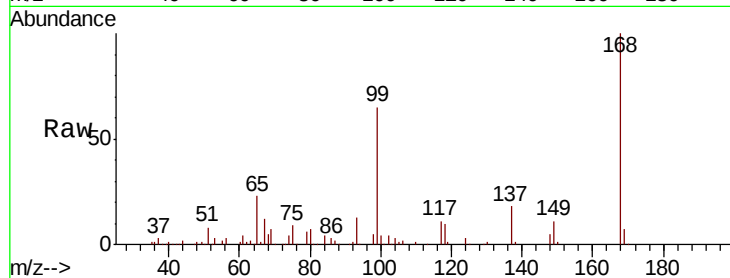
ClientSampleId :

Tot Ion:168 Resp: 262140

Ion Ratio Lower Upper

168 100

99 64.6 54.4 81.6

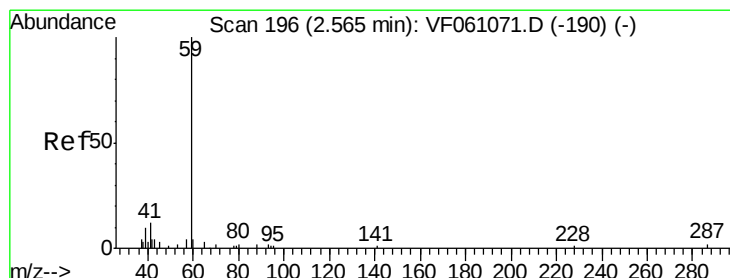
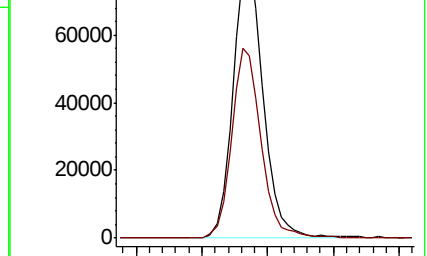
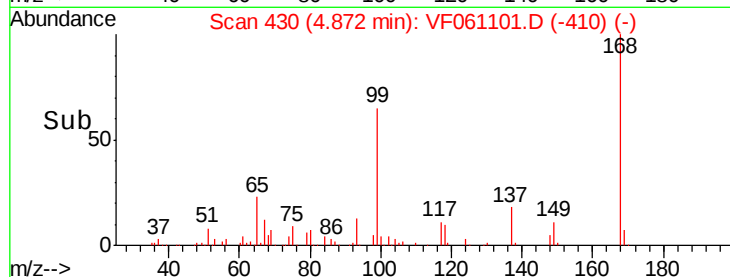


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

Time-->



#11

Tert butyl alcohol

Concen: 1.080 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.00 min

Lab File: VF061101.D

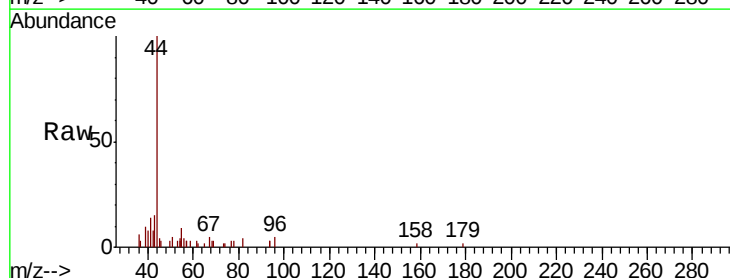
Acq: 20 Dec 2018 11:46

Tgt Ion: 59 Resp: 147

Ion Ratio Lower Upper

59 100

57 169.2 11.5 17.3#

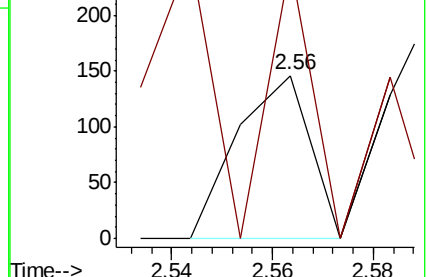
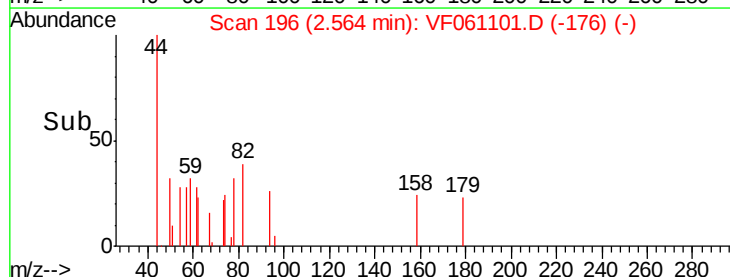


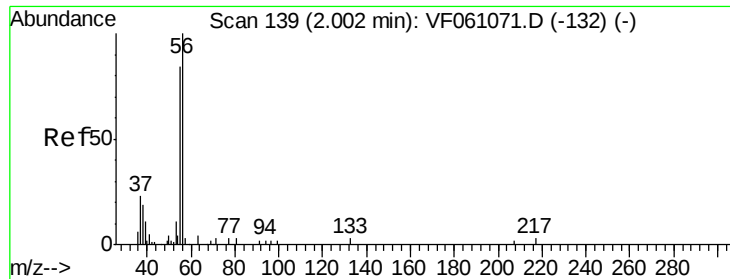
Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

Time-->

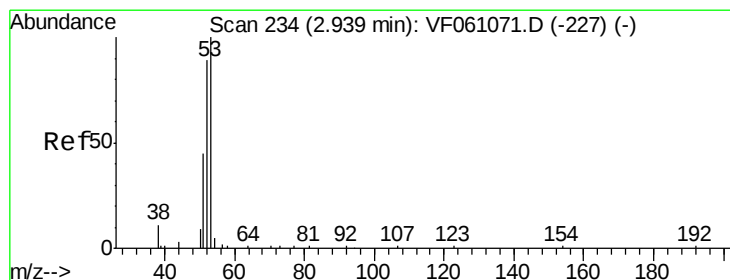
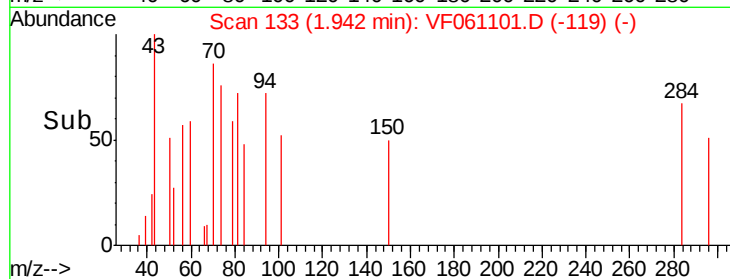
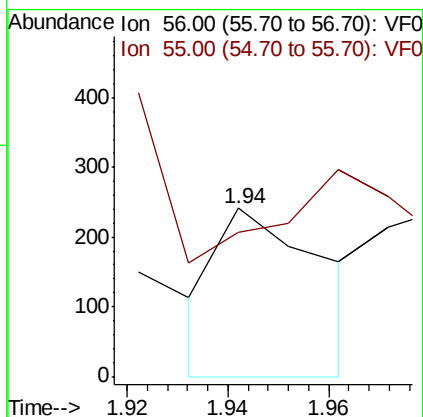
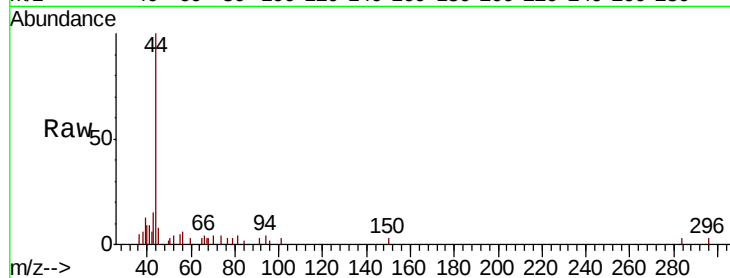




#13
Acrolein
Concen: 3.570 ug/l
RT: 1.94 min Scan# 133
Delta R.T. -0.06 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

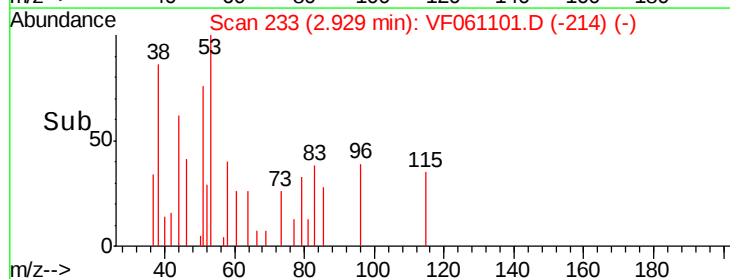
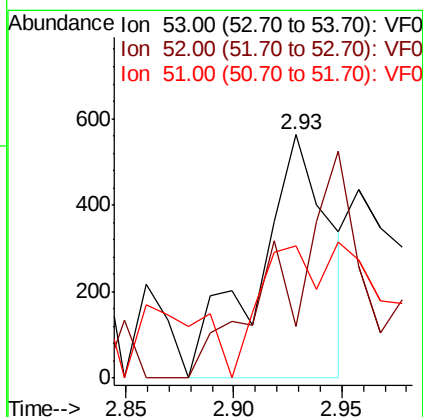
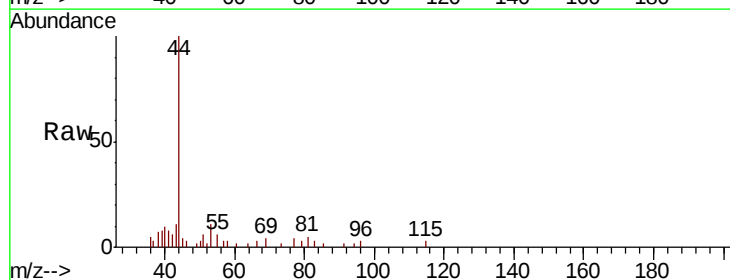
Instrument :
MSVOA_F
ClientSampleId :

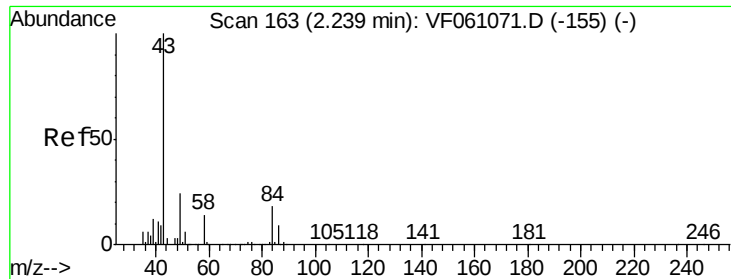
Tot Ion: 56 Resp: 351
Ion Ratio Lower Upper
56 100
55 85.5 70.2 105.2



#15
Acrylonitrile
Concen: 4.100 ug/l
RT: 2.93 min Scan# 233
Delta R.T. -0.01 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Tgt Ion: 53 Resp: 1290
Ion Ratio Lower Upper
53 100
52 21.1 71.3 106.9#
51 54.5 36.8 55.2

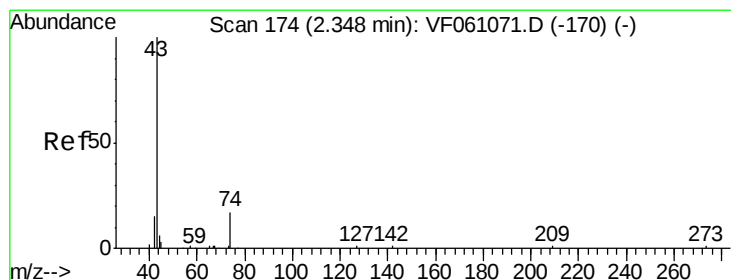
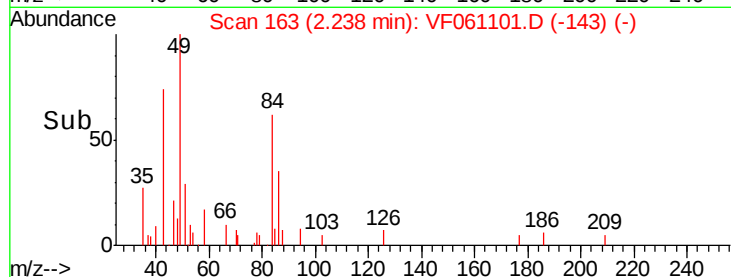
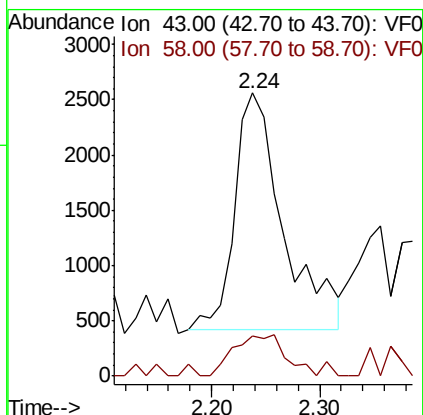
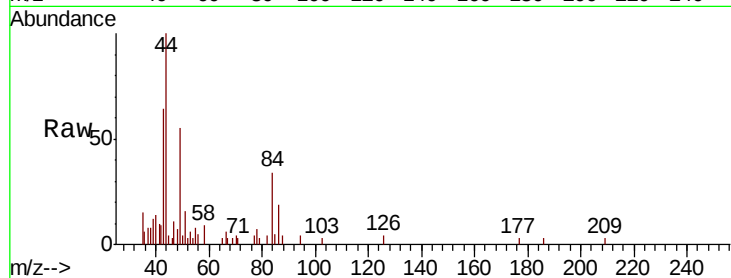




#16
Acetone
Concen: 9.998 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.00 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

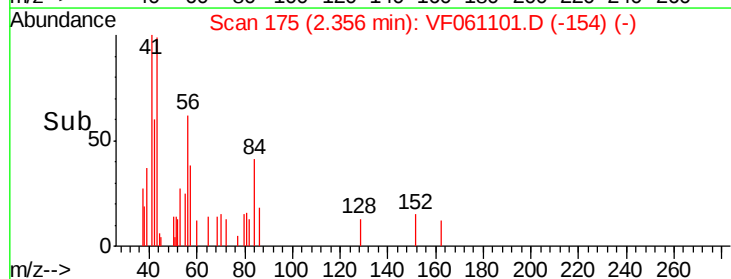
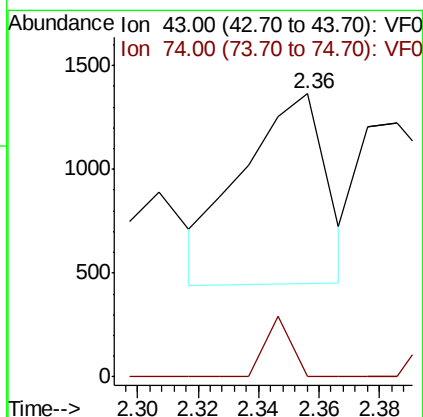
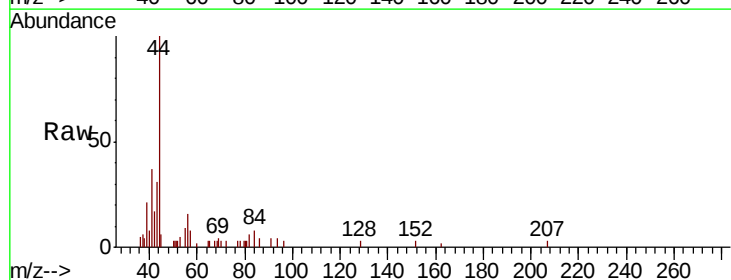
Instrument :
MSVOA_F
ClientSampleId :

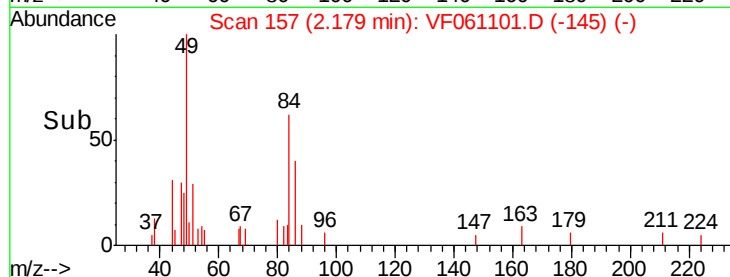
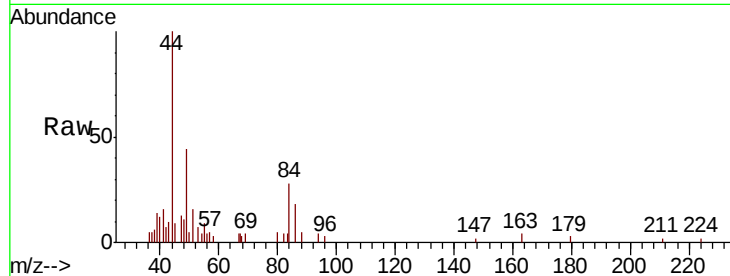
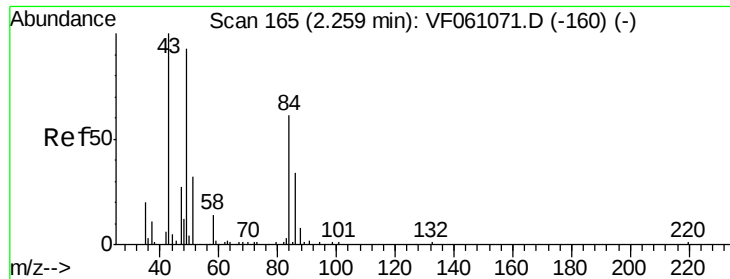
Tot Ion: 43 Resp: 6739
Ion Ratio Lower Upper
43 100
58 14.2 11.1 16.7



#18
Methyl Acetate
Concen: 1.271 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Tgt Ion: 43 Resp: 1772
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#

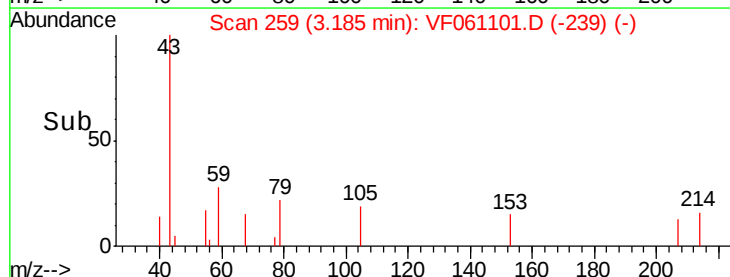
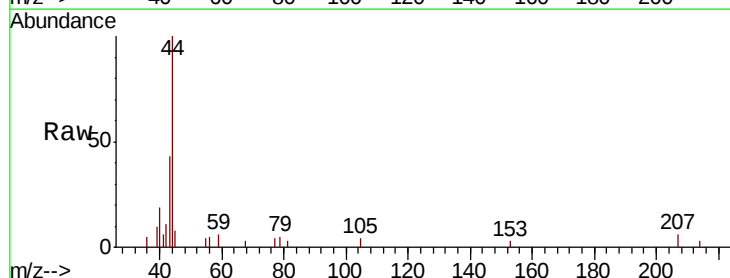
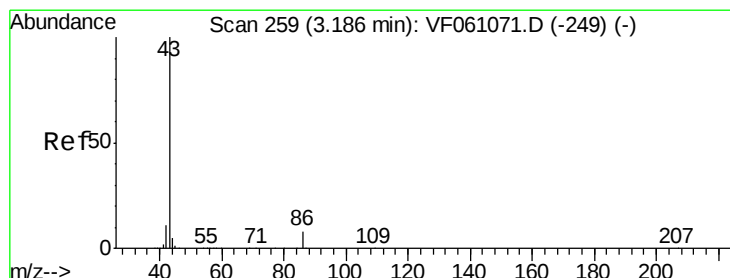
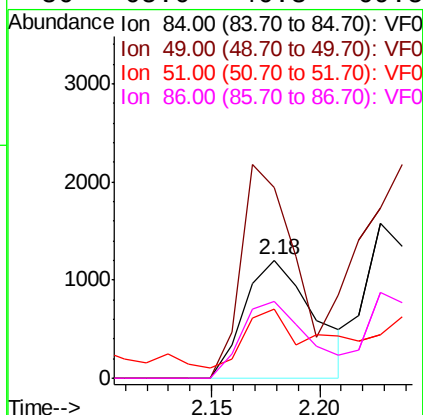




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.08 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Tot Ion: 84 Resp: 2682

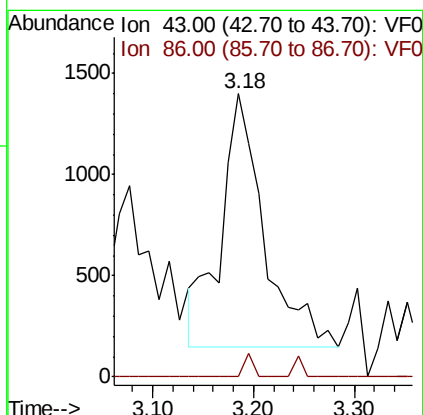
Ion	Ratio	Lower	Upper
84	100		
49	161.1	129.4	194.2
51	59.1	44.0	66.0
86	65.0	46.3	69.5

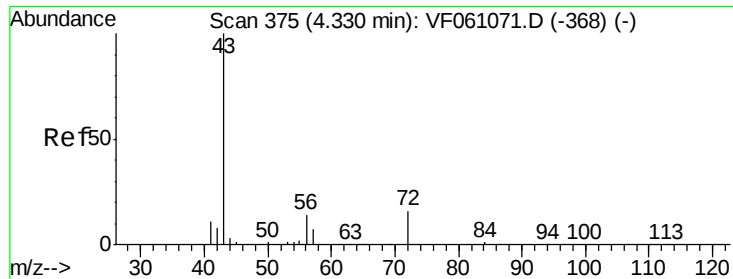


#23
Vinyl Acetate
Concen: 1.006 ug/l
RT: 3.18 min Scan# 259
Delta R.T. -0.00 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Tgt Ion: 43 Resp: 3718

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.3	9.5#





#25

2-Butanone

Concen: 3.240 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061101.D

Acq: 20 Dec 2018 11:46

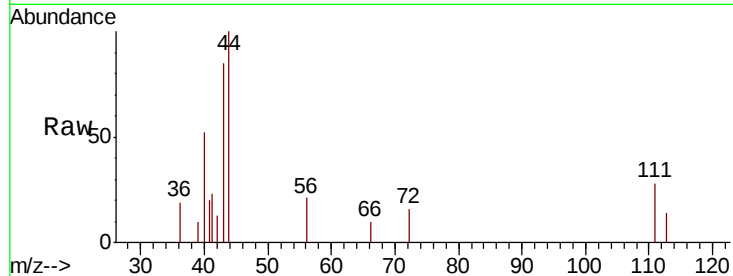
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 3542

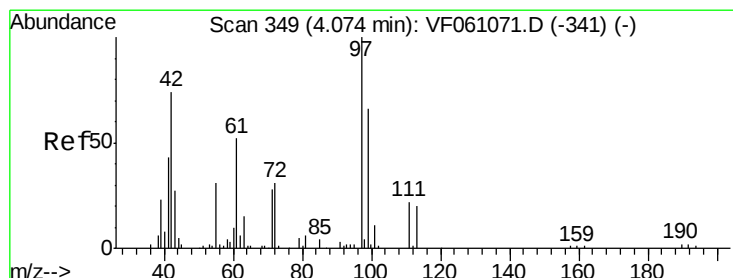
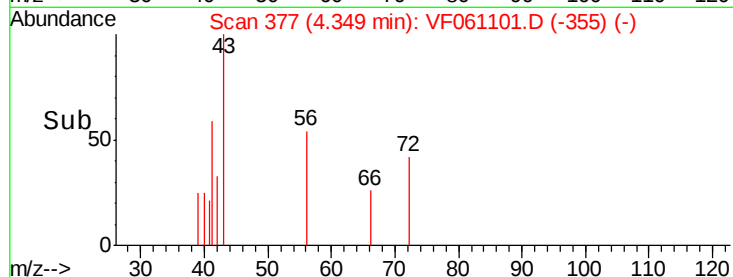
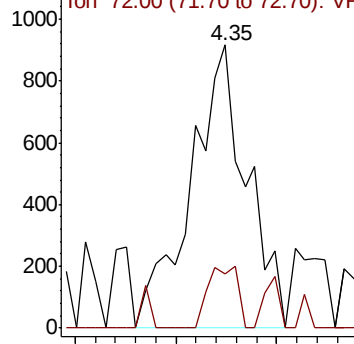
Ion Ratio Lower Upper

43 100

72 19.3 15.6 23.4



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 3.742 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061101.D

Acq: 20 Dec 2018 11:46

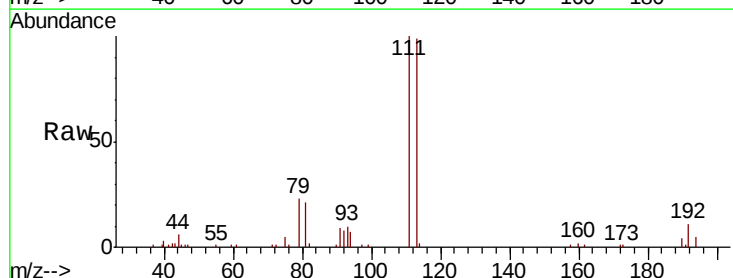
Tgt Ion: 42 Resp: 1665

Ion Ratio Lower Upper

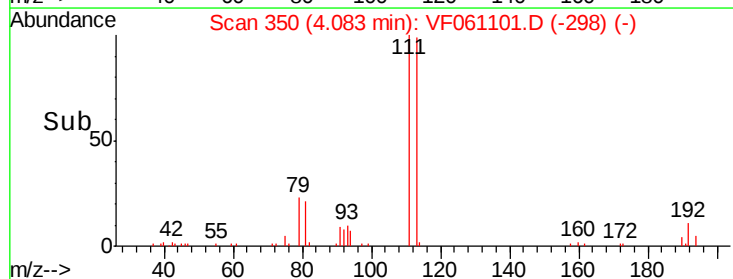
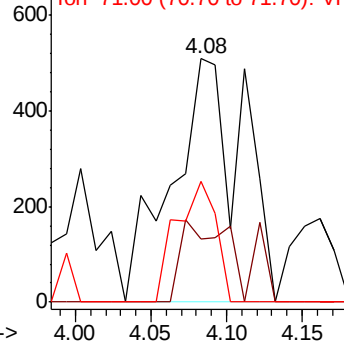
42 100

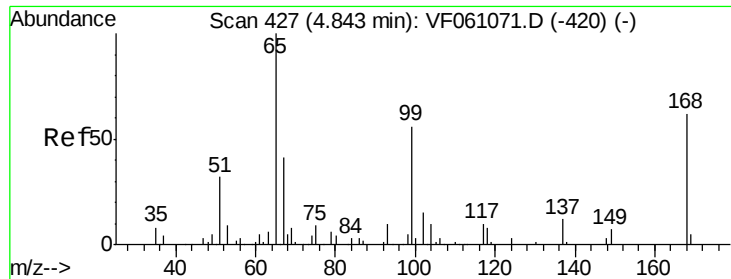
72 27.2 31.8 47.8#

71 27.6 29.7 44.5#



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

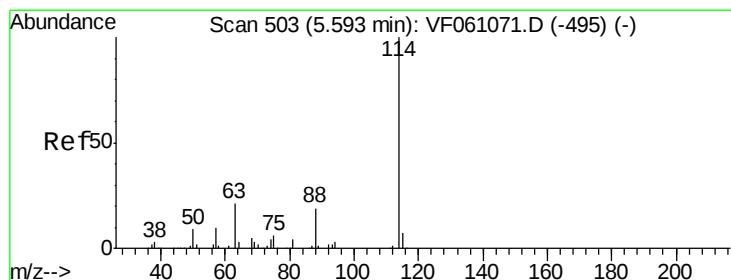
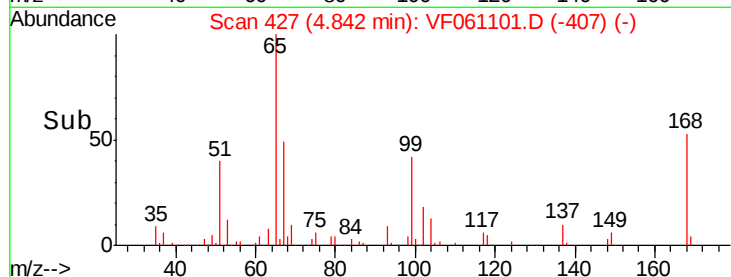
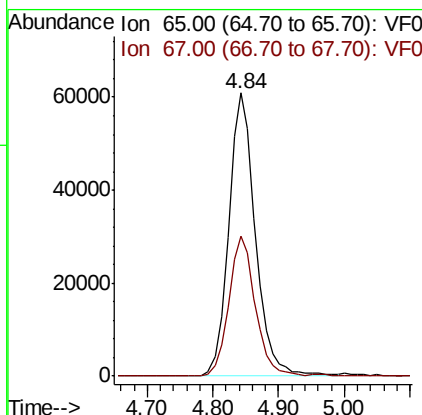
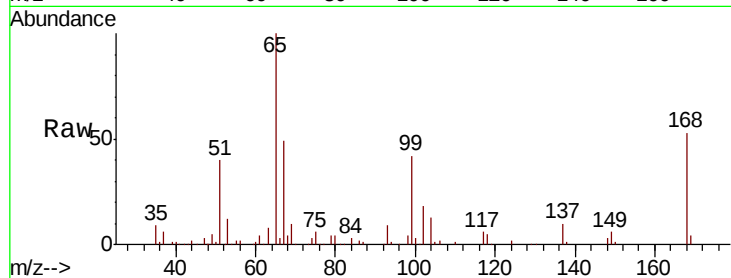




#33
 1,2-Dichloroethane-d4
 Concen: 51.187 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.00 min
 Lab File: VF061101.D
 Acq: 20 Dec 2018 11:46

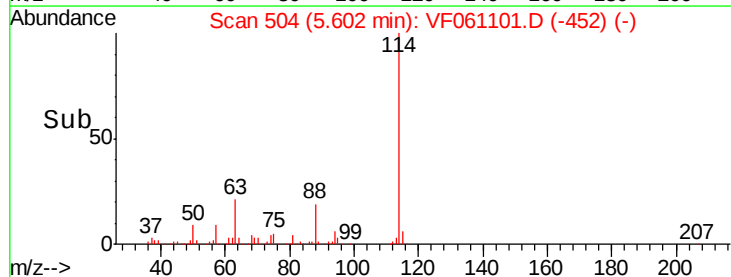
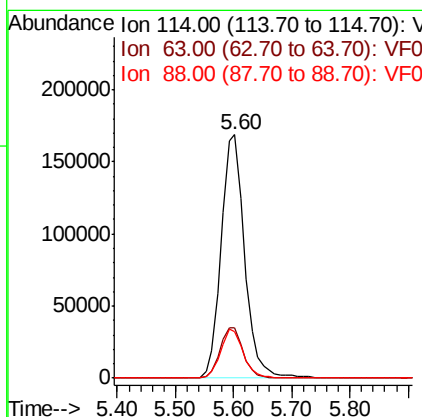
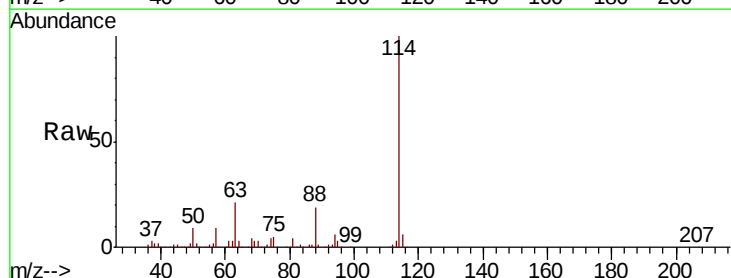
Instrument :
 MSVOA_F
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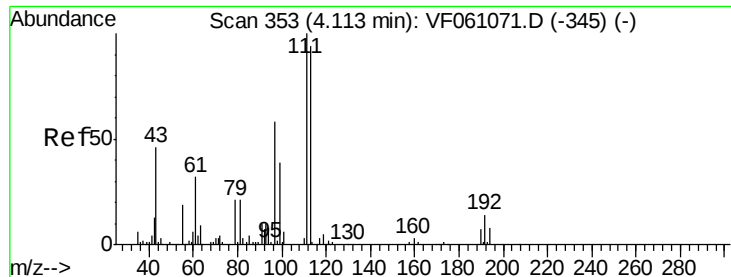
Tot Ion: 65 Resp: 172582
 Ion Ratio Lower Upper
 65 100
 67 49.5 0.0 94.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF061101.D
 Acq: 20 Dec 2018 11:46

Tgt Ion: 114 Resp: 474047
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.6
 88 19.3 0.0 38.0





#35

Dibromofluoromethane

Concen: 52.488 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF061101.D

Acq: 20 Dec 2018 11:46

Instrument :
MSVOA_F
ClientSampleId :

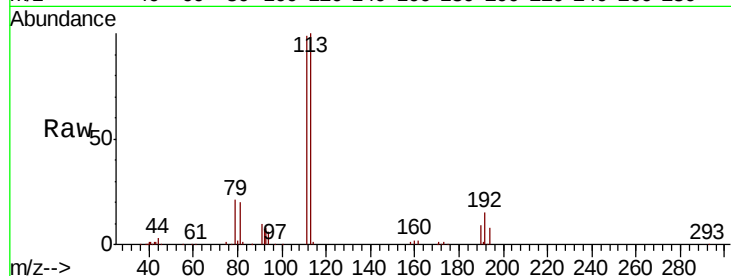
Tot Ion:113 Resp: 199319

Ion Ratio Lower Upper

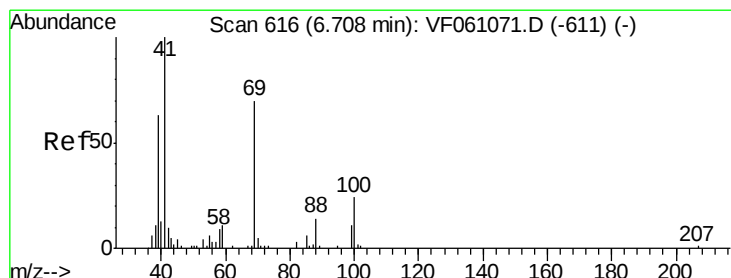
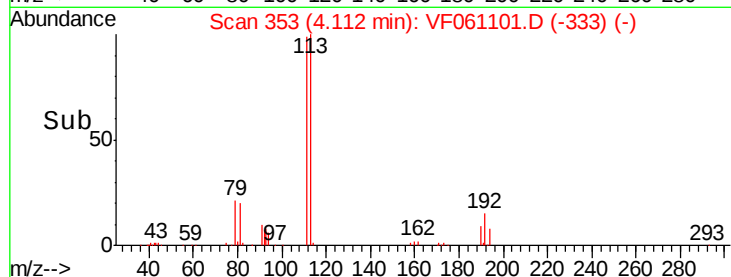
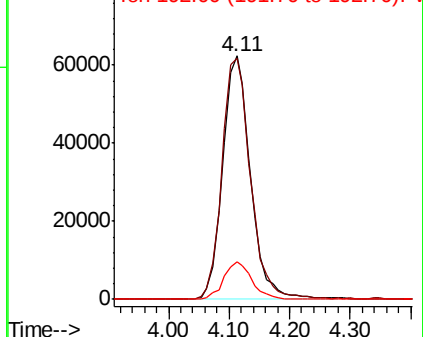
113 100

111 98.9 85.2 127.8

192 15.2 12.8 19.2



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



#49

1,4-Dioxane

Concen: 5.002 ug/l

RT: 6.75 min Scan# 620

Delta R.T. 0.04 min

Lab File: VF061101.D

Acq: 20 Dec 2018 11:46

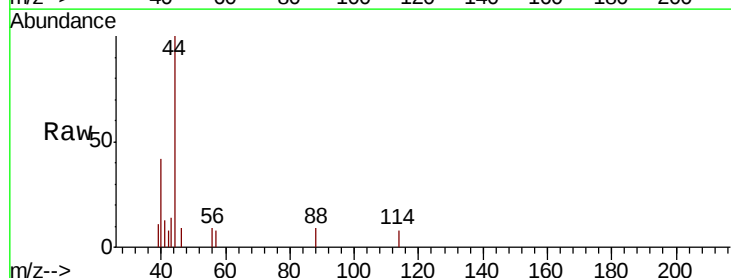
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

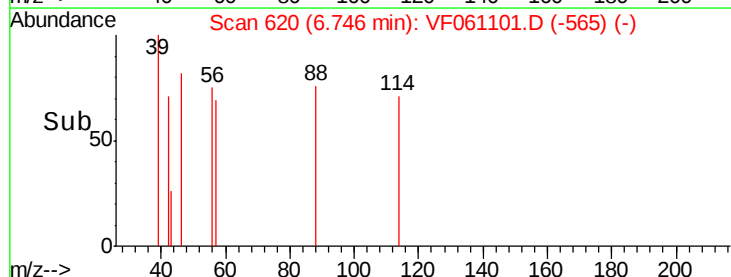
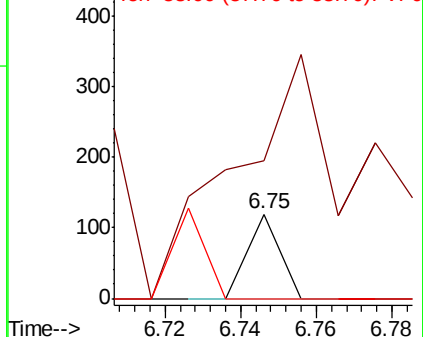
88 100

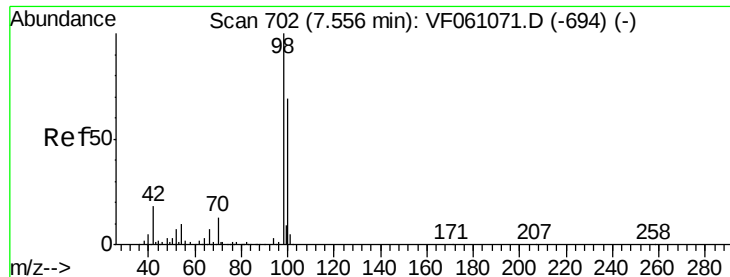
43 163.9 33.3 49.9#

58 0.0 53.2 79.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

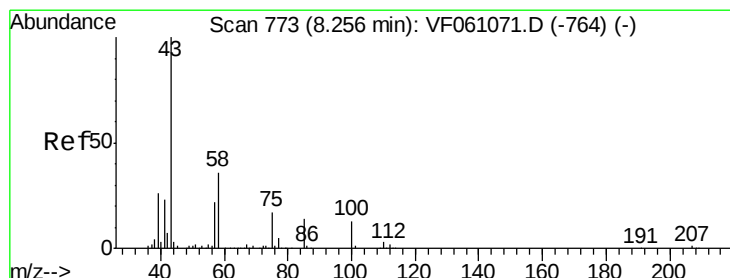
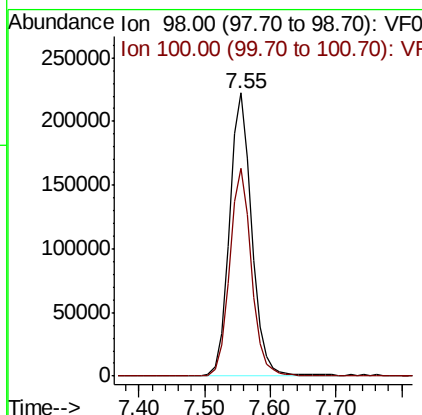
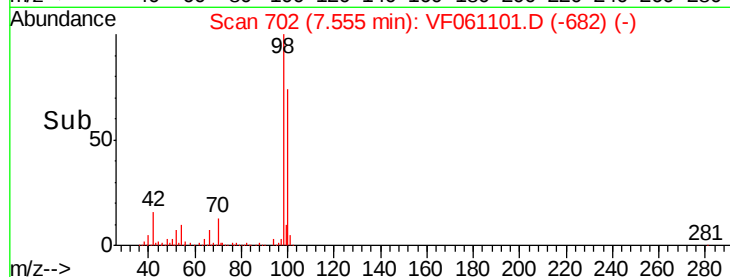
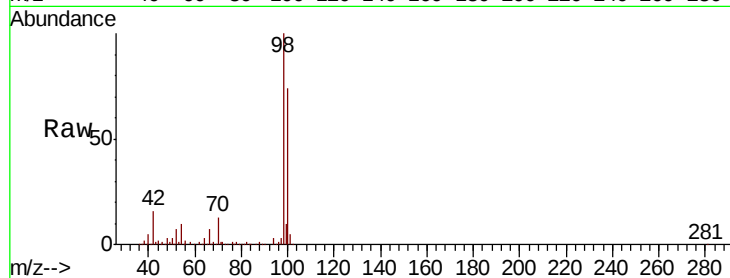




#50
Toluene-d8
Concen: 49.140 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.00 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

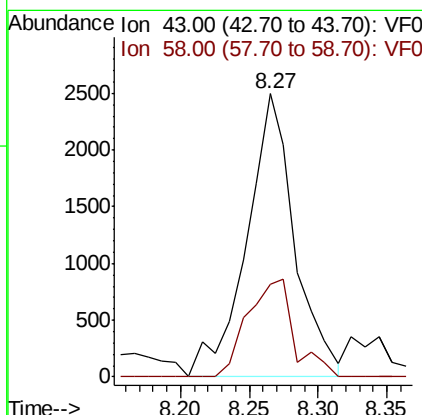
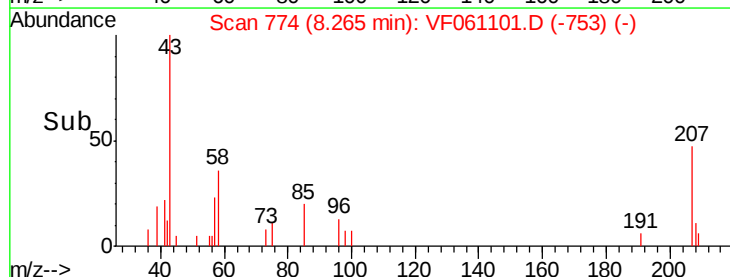
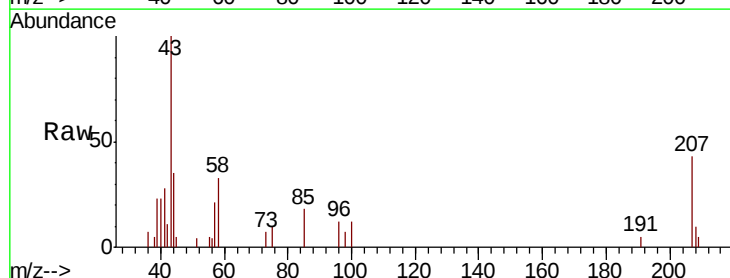
Instrument :
MSVOA_F
ClientSampled :

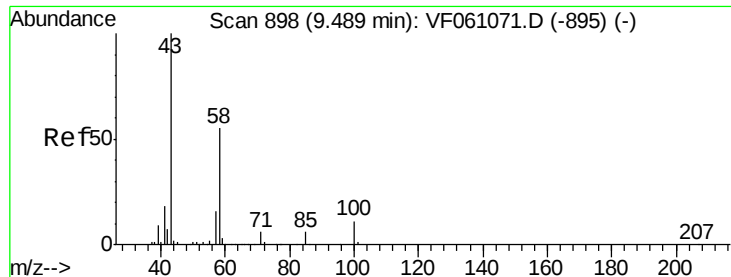
Tot Ion: 98 Resp: 528813
Ion Ratio Lower Upper
98 100
100 73.7 55.3 82.9



#51
4-Methyl-2-Pentanone
Concen: 3.192 ug/l
RT: 8.27 min Scan# 774
Delta R.T. 0.01 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Tgt Ion: 43 Resp: 6049
Ion Ratio Lower Upper
43 100
58 32.8 29.1 43.7

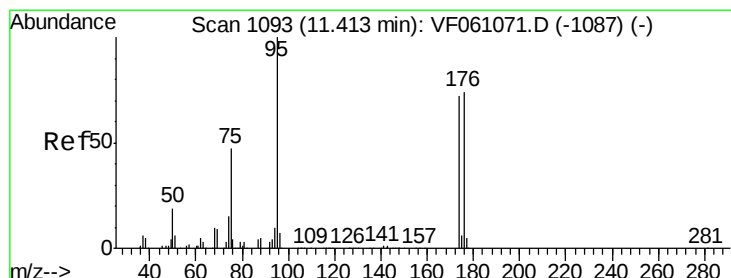
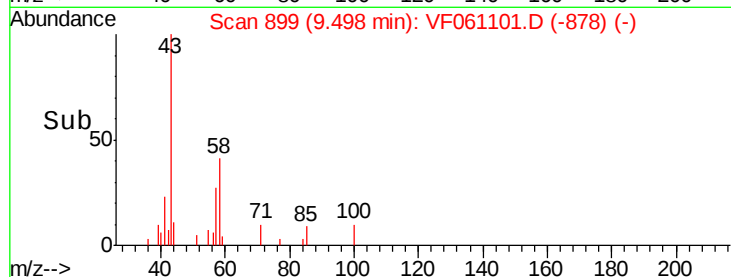
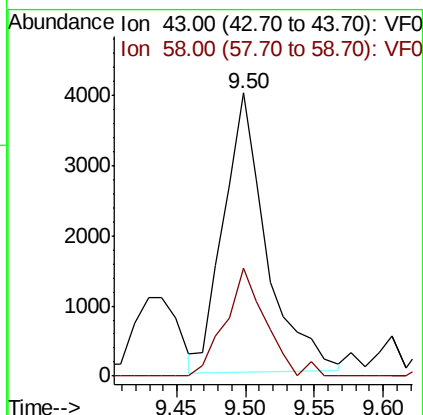
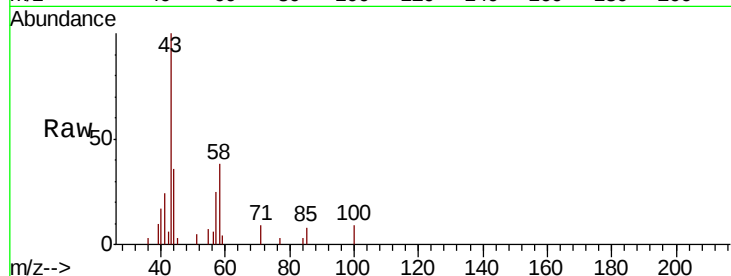




#59
2-Hexanone
Concen: 6.226 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.01 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

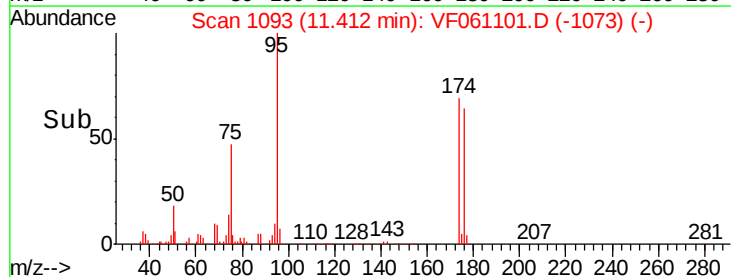
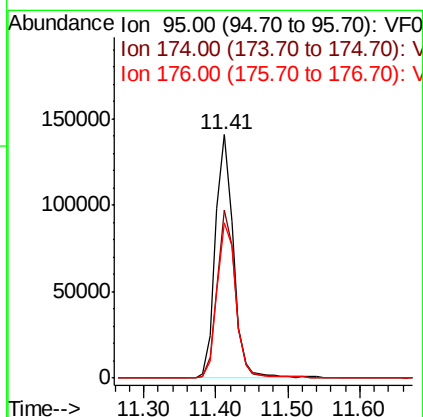
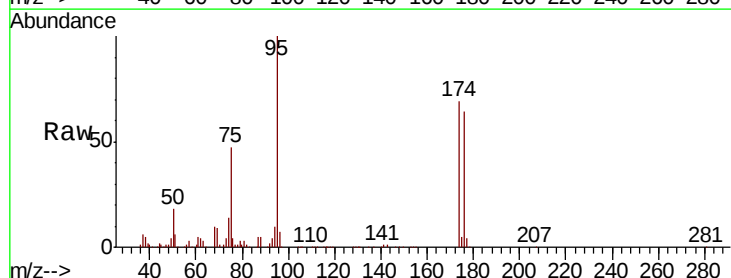
Instrument :
MSVOA_F
ClientSampleId :

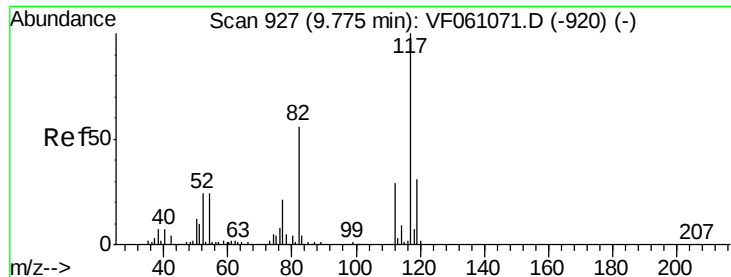
Tot Ion: 43 Resp: 8531
Ion Ratio Lower Upper
43 100
58 38.3 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 48.914 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Tgt Ion: 95 Resp: 242667
Ion Ratio Lower Upper
95 100
174 68.8 0.0 143.8
176 63.7 0.0 147.6

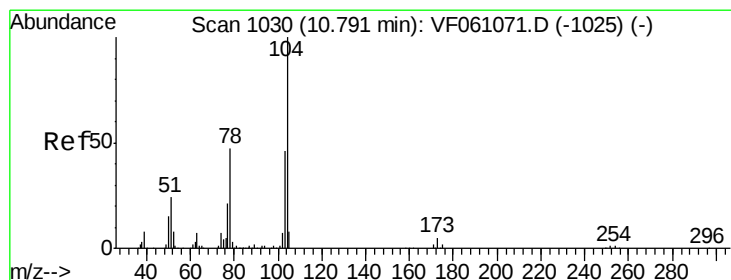
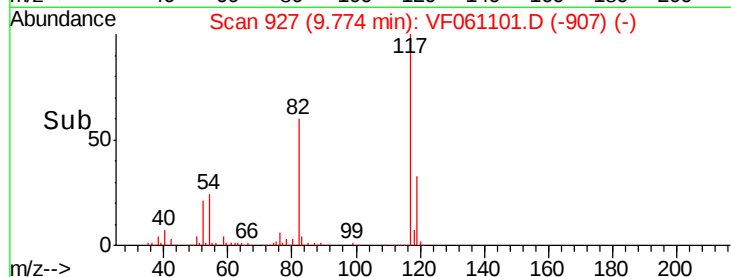
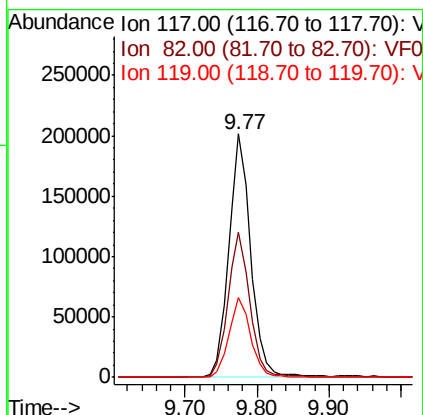
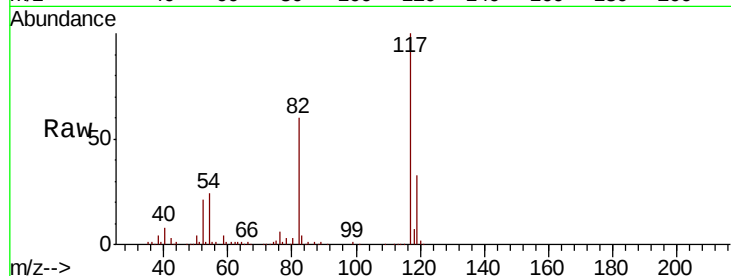




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

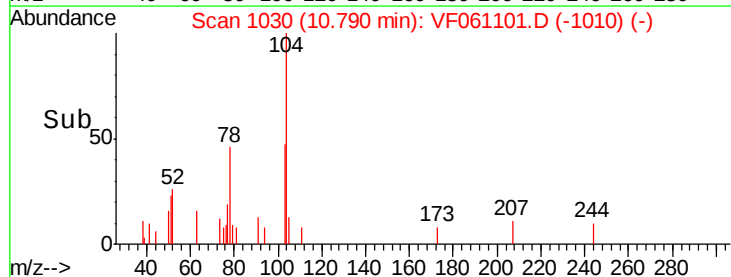
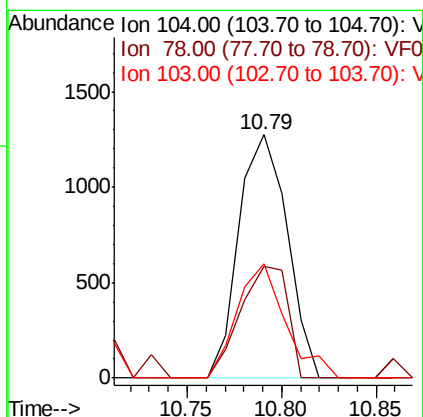
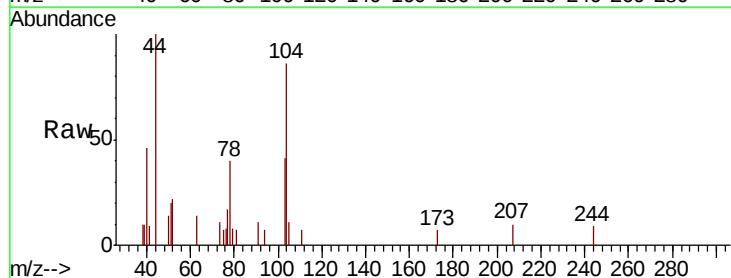
Instrument :
MSVOA_F
ClientSampleId :

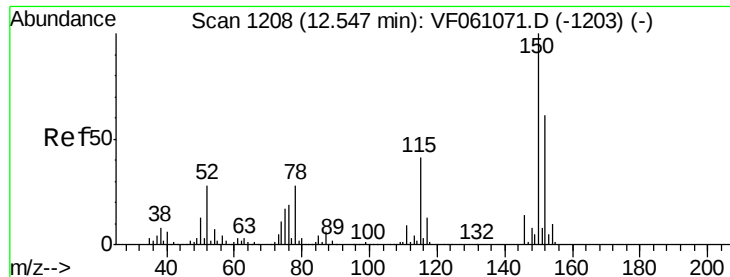
Tot Ion:117 Resp: 427565
Ion Ratio Lower Upper
117 100
82 59.7 45.0 67.4
119 32.8 24.8 37.2



#70
Styrene
Concen: Below Cal
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Tgt Ion:104 Resp: 2259
Ion Ratio Lower Upper
104 100
78 45.8 38.4 57.6
103 47.1 37.0 55.6



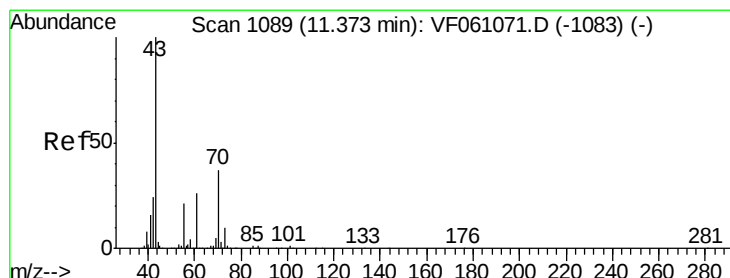
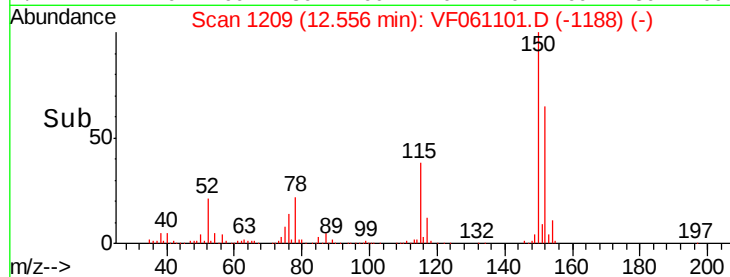
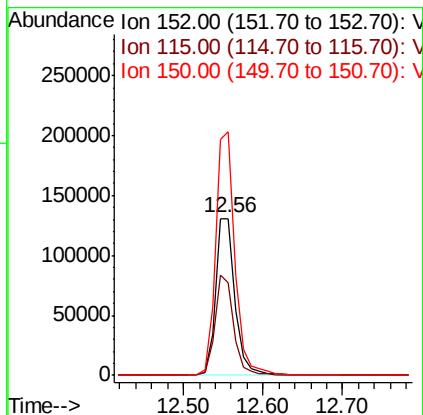
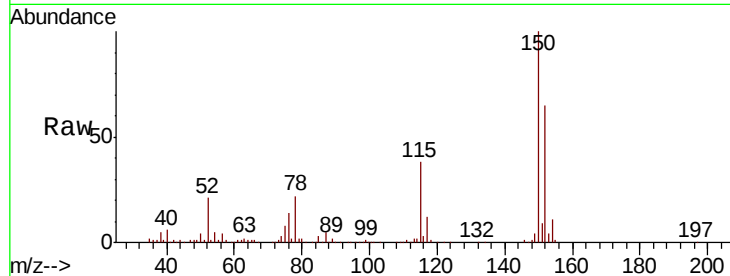


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Instrument :
MSVOA_F
ClientSampleId :

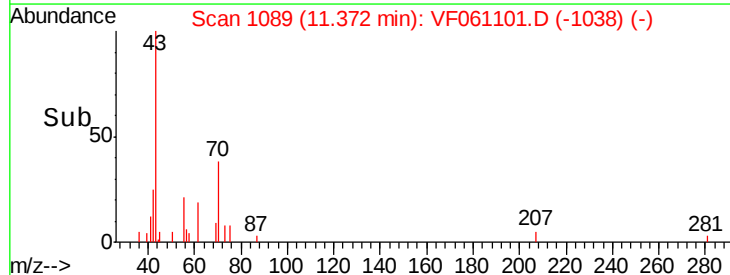
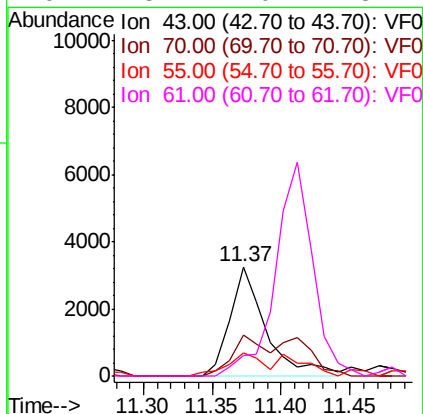
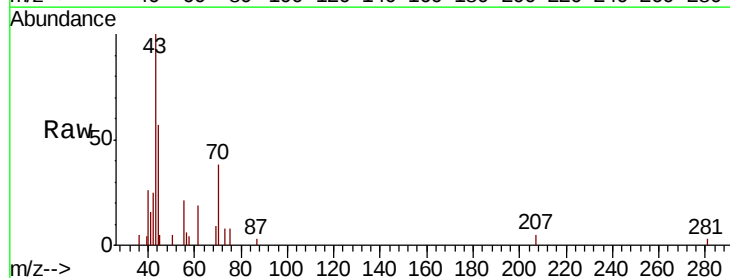
Tot Ion:152 Resp: 227740
Ion Ratio Lower Upper
152 100
115 58.6 33.3 99.9
150 155.0 0.0 328.2

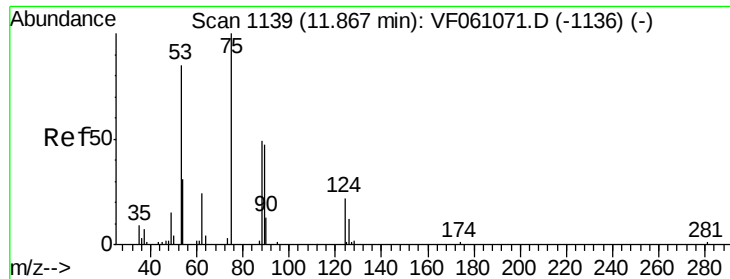


#74

N-ethyl acetate
Concen: 1.358 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Tgt Ion: 43 Resp: 5919
Ion Ratio Lower Upper
43 100
70 37.9 29.2 43.8
55 20.7 16.5 24.7
61 18.7 20.7 31.1#

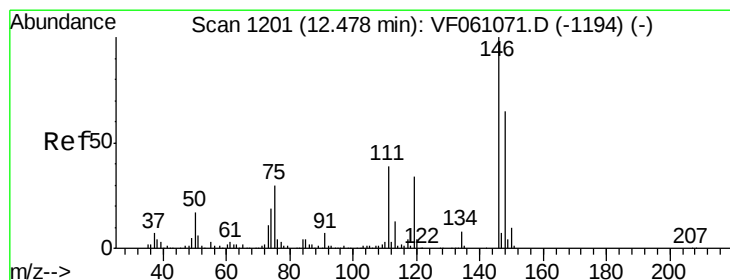
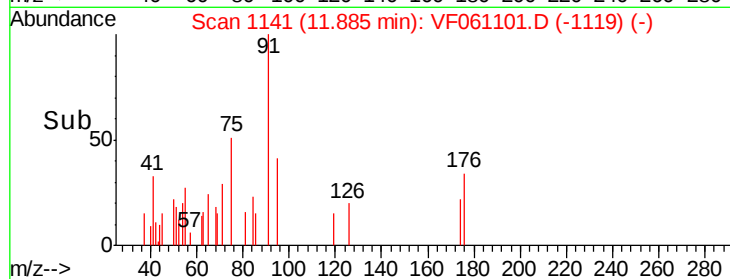
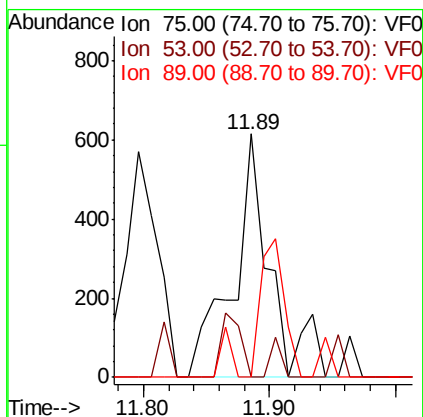
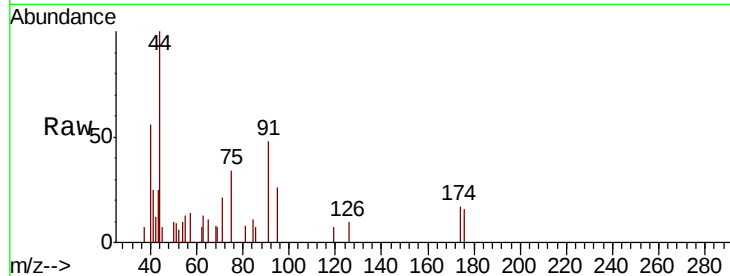




#81
trans-1,4-Dichloro-2-butene
Concen: 1.220 ug/l
RT: 11.89 min Scan# 1141
Delta R.T. 0.02 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

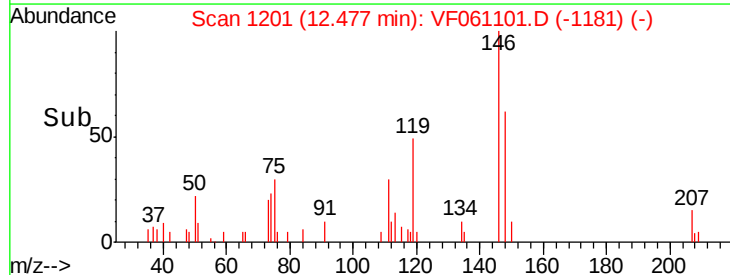
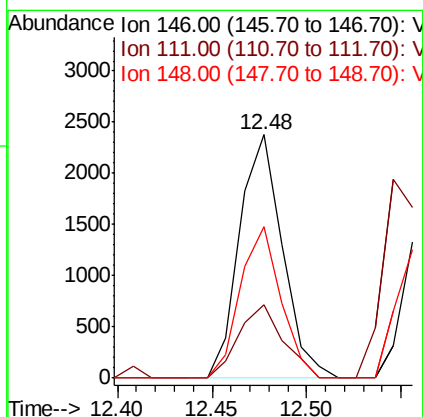
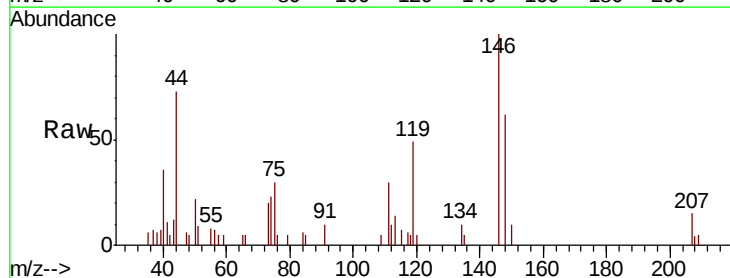
Instrument :
MSVOA_F
ClientSampleId :

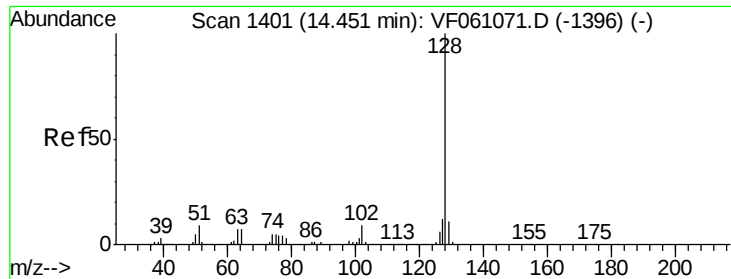
Tot Ion: 75 Resp: 1271
Ion Ratio Lower Upper
75 100
53 0.0 74.1 111.1#
89 0.0 42.6 64.0#



#87
1,3-Dichlorobenzene
Concen: Below Cal
RT: 12.48 min Scan# 1201
Delta R.T. -0.00 min
Lab File: VF061101.D
Acq: 20 Dec 2018 11:46

Tgt Ion:146 Resp: 3752
Ion Ratio Lower Upper
146 100
111 30.3 19.3 57.9
148 62.5 32.4 97.2

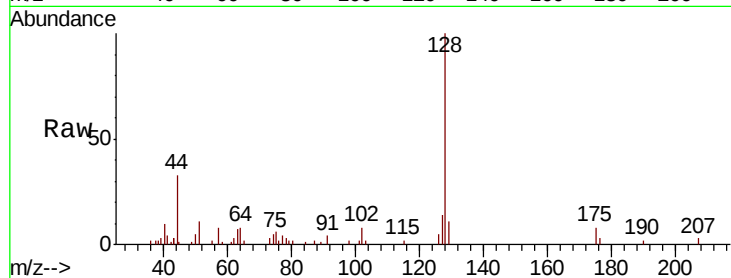




#95
 Naphthalene
 Concen: 1.303 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.01 min
 Lab File: VF061101.D
 Acq: 20 Dec 2018 11:46

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.4	9.4	14.2#
129	11.3	8.8	13.2



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

