

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
 Data File : VF061141.D
 Acq On : 22 Dec 2018 13:29
 Operator : VA/AP
 Sample : VF1222SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 02:55:18 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	4.90	168	230250	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.62	114	399662	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.80	117	372532	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.57	152	204208	50.00	ug/l	0.03

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.87	65	147444	49.79	ug/l	0.03
Spiked Amount	50.000		Recovery	=	99.58%	
35) Dibromofluoromethane	4.14	113	167826	52.42	ug/l	0.03
Spiked Amount	50.000		Recovery	=	104.84%	
50) Toluene-d8	7.58	98	438270	48.31	ug/l	0.03
Spiked Amount	50.000		Recovery	=	96.62%	
62) 4-Bromofluorobenzene	11.43	95	209370	50.06	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.12%	

Target Compounds

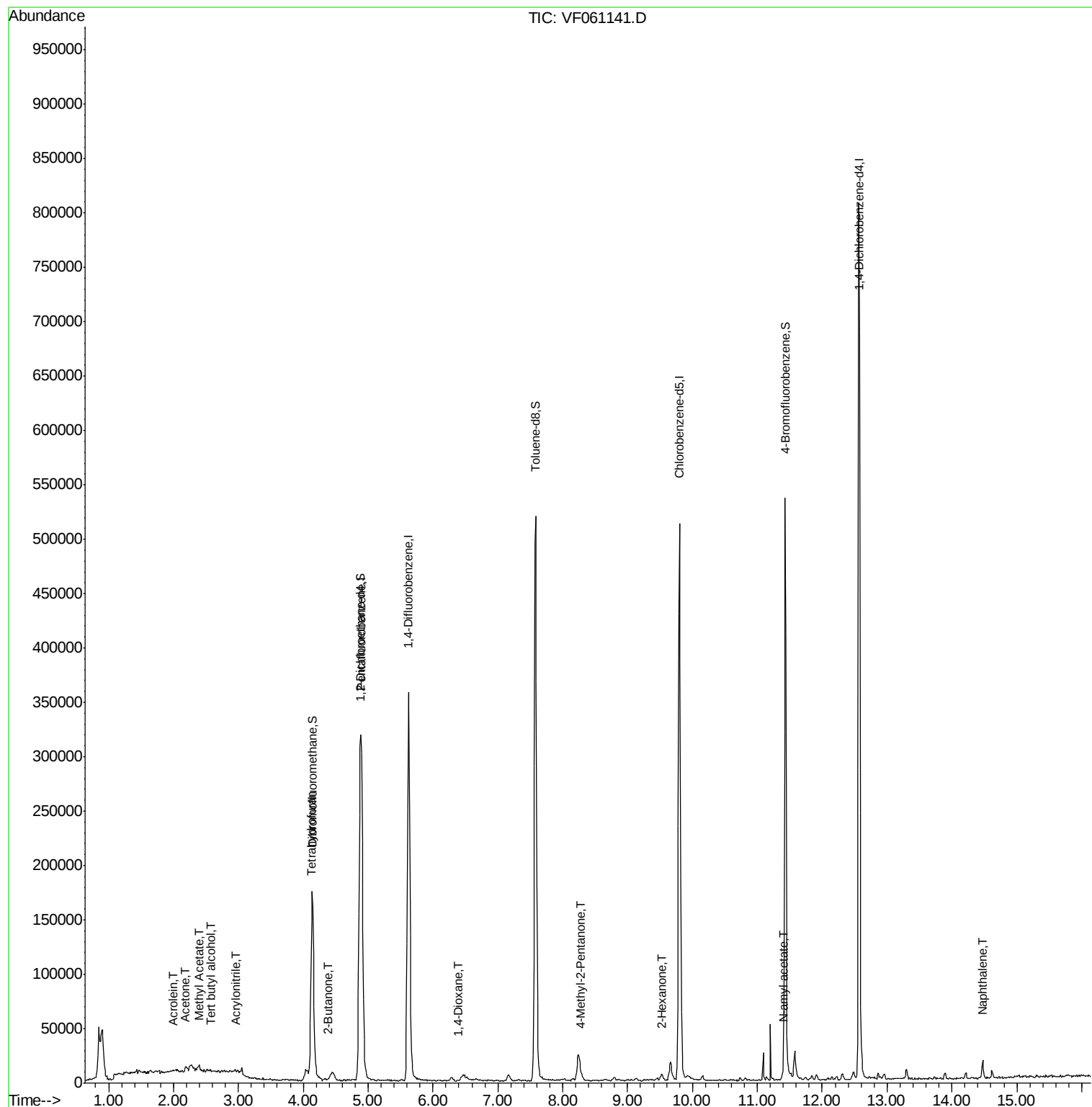
					Qvalue	
11) Tert butyl alcohol	2.57	59	224	1.874	ug/l #	36
13) Acrolein	1.99	56	608	7.041	ug/l	90
15) Acrylonitrile	2.95	53	1126	4.075	ug/l #	54
16) Acetone	2.18	43	795	1.343	ug/l	97
18) Methyl Acetate	2.38	43	1843	1.505	ug/l	99
20) Methylene Chloride	2.27	84	4141	Below Cal	#	75
25) 2-Butanone	4.37	43	2523	2.628	ug/l #	65
29) Tetrahydrofuran	4.12	42	1320	3.378	ug/l #	47
49) 1,4-Dioxane	6.39	88	63	5.339	ug/l #	1
51) 4-Methyl-2-Pentanone	8.29	43	4779	2.991	ug/l #	67
59) 2-Hexanone	9.52	43	4421	3.827	ug/l	89
70) Styrene	10.82	104	1267	Below Cal	#	87
74) N-amyl acetate	11.39	43	6160	1.577	ug/l #	89
78) n-propylbenzene	11.62	91	2414	Below Cal		94
87) 1,3-Dichlorobenzene	12.49	146	1338	Below Cal	#	83
95) Naphthalene	14.48	128	10138	1.156	ug/l	98

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

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Misc : 5.00µ/5mL/MSVOA-F/SOIL
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MSVOA_F
ClientSampleId :

Quant Time: Dec 24 02:55:18 2018
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: 4.90 min Scan# 433

Delta R.T. 0.03 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

Instrument :

MSVOA_F

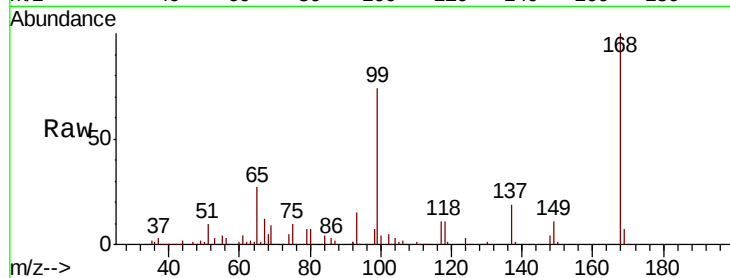
ClientSampleId :

Tot Ion:168 Resp: 230250

Ion Ratio Lower Upper

168 100

99 73.7 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

80000

60000

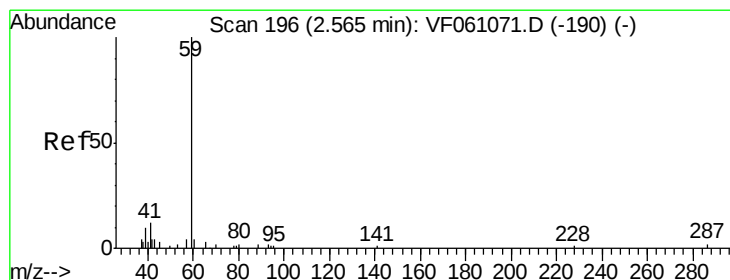
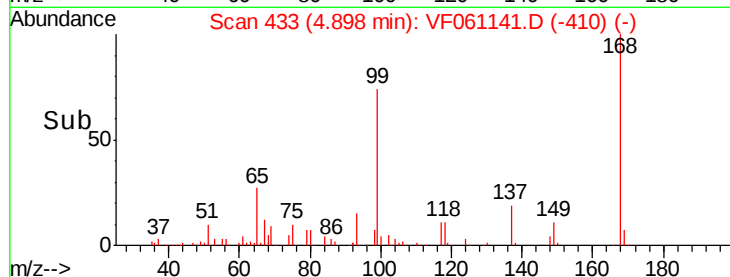
40000

20000

0

Time-->

4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.874 ug/l

RT: 2.57 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF061141.D

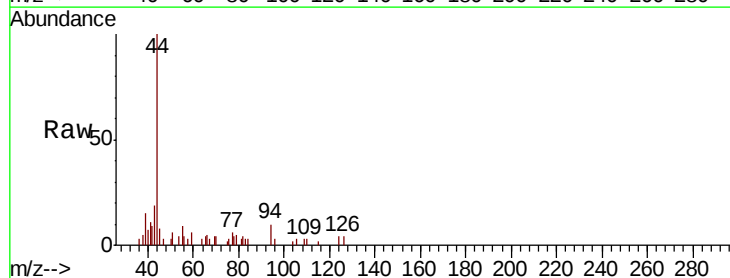
Acq: 22 Dec 2018 13:29

Tgt Ion: 59 Resp: 224

Ion Ratio Lower Upper

59 100

57 40.7 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

300

250

200

150

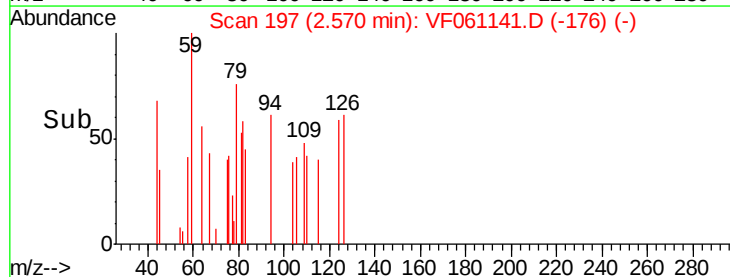
100

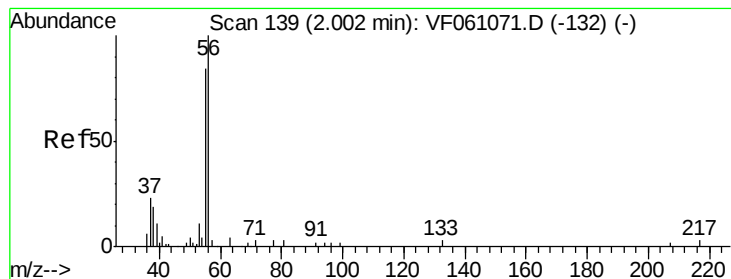
50

0

Time-->

2.54 2.56 2.58





#13

Acrolein

Concen: 7.041 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

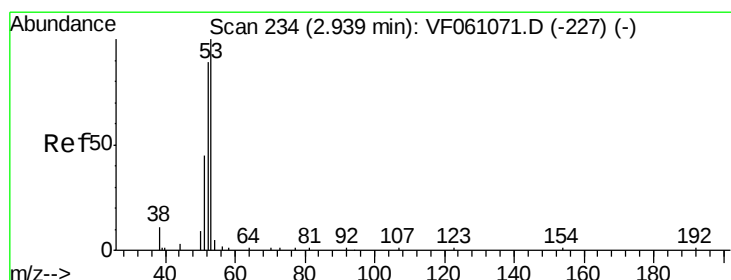
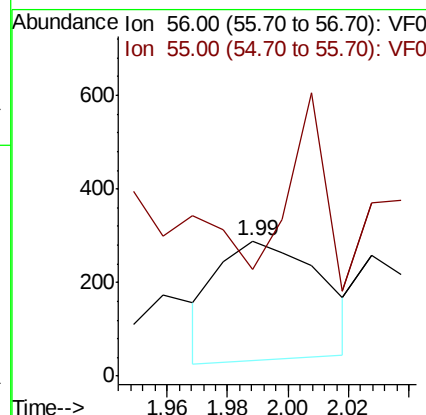
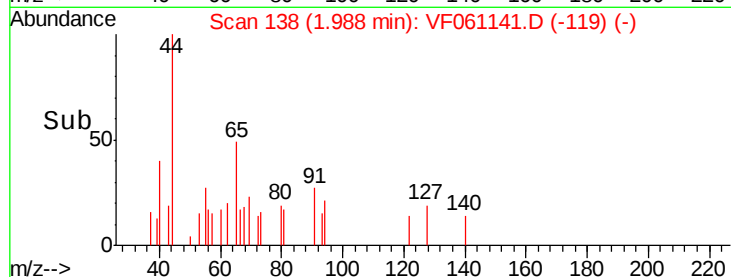
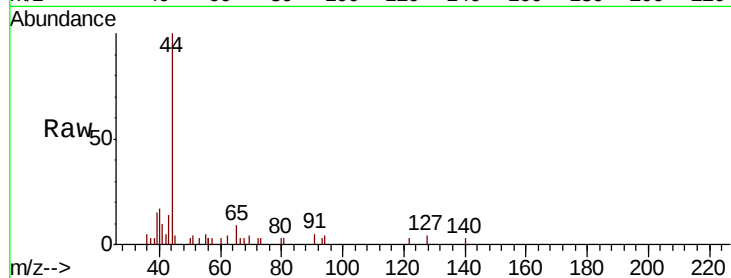
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 608

Ion Ratio Lower Upper

56 100

55 78.5 70.2 105.2



#15

Acrylonitrile

Concen: 4.075 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

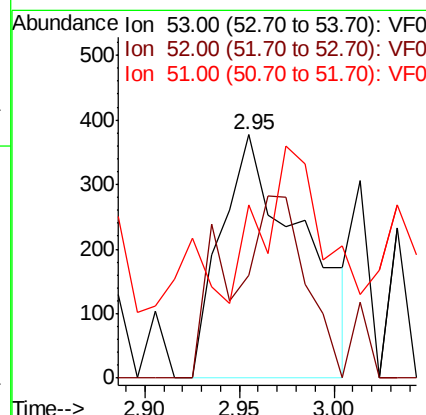
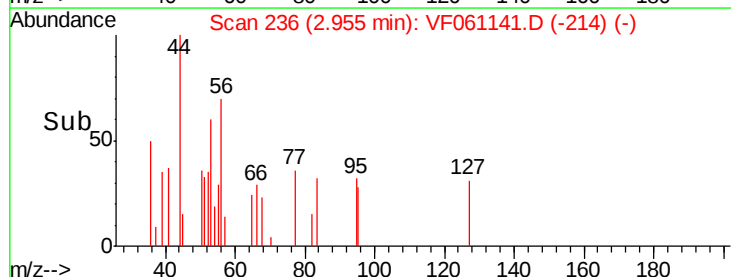
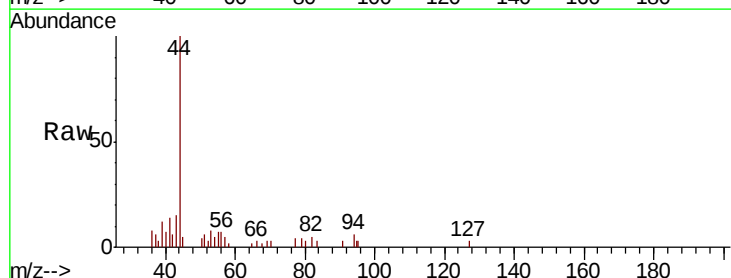
Tgt Ion: 53 Resp: 1126

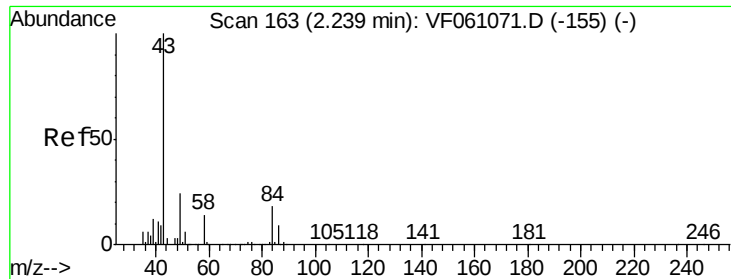
Ion Ratio Lower Upper

53 100

52 42.2 71.3 106.9#

51 71.4 36.8 55.2#

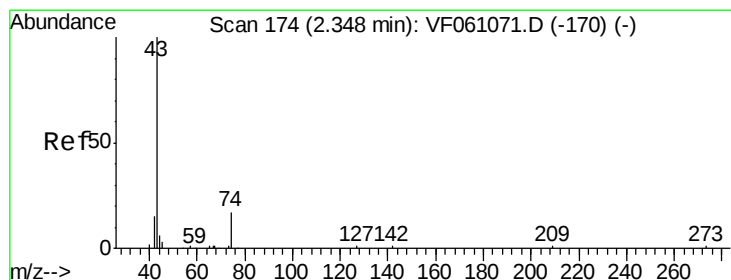
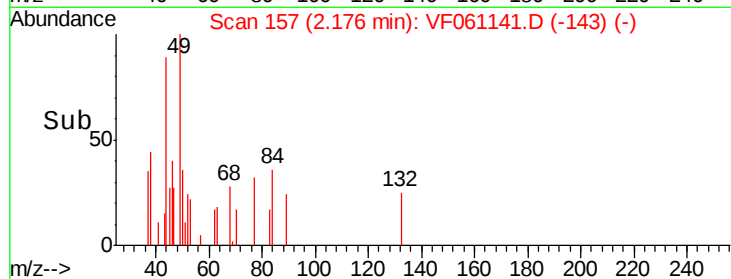
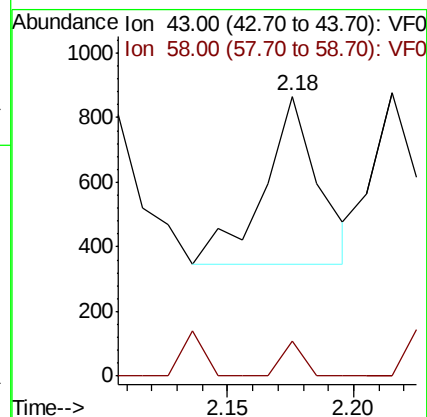
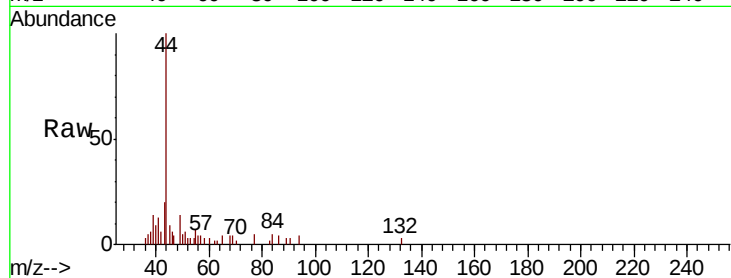




#16
Acetone
Concen: 1.343 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.06 min
Lab File: VF061141.D
Acq: 22 Dec 2018 13:29

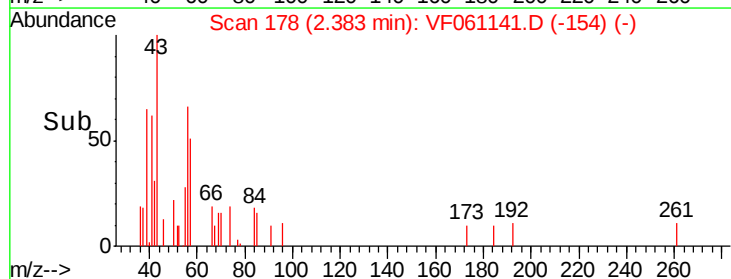
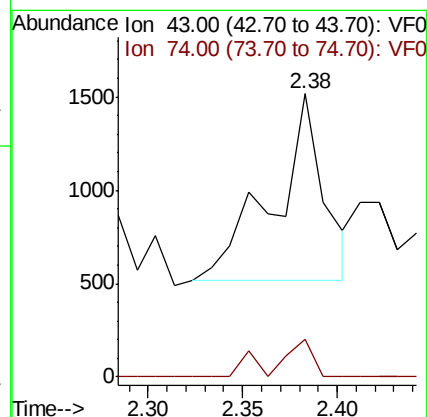
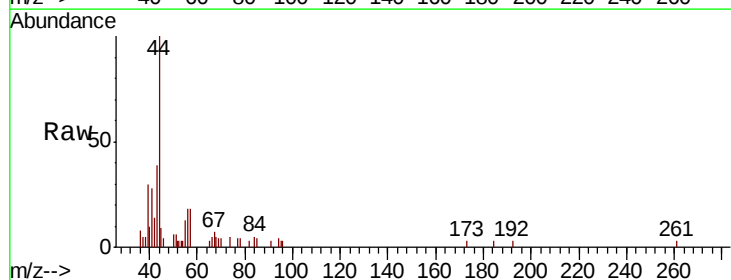
Instrument :
MSVOA_F
ClientSampleId :

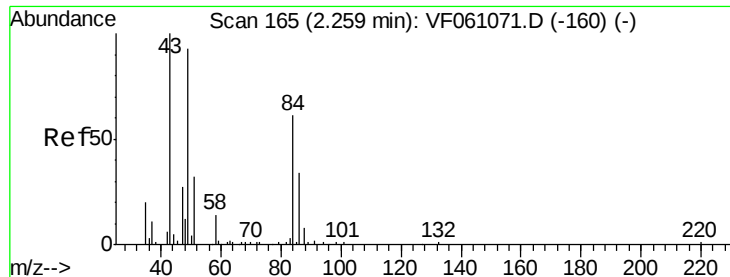
Tot Ion: 43 Resp: 795
Ion Ratio Lower Upper
43 100
58 12.7 11.1 16.7



#18
Methyl Acetate
Concen: 1.505 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.04 min
Lab File: VF061141.D
Acq: 22 Dec 2018 13:29

Tgt Ion: 43 Resp: 1843
Ion Ratio Lower Upper
43 100
74 13.3 11.0 16.6

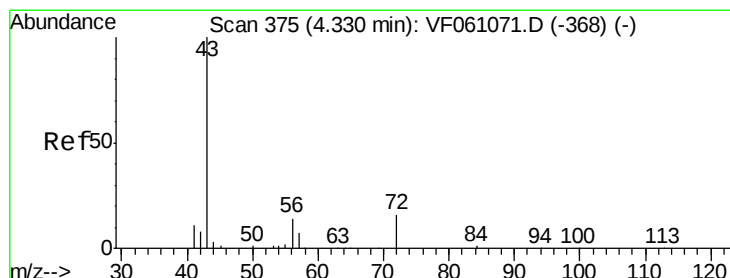
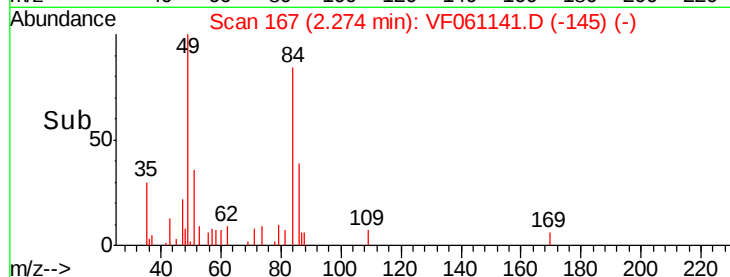
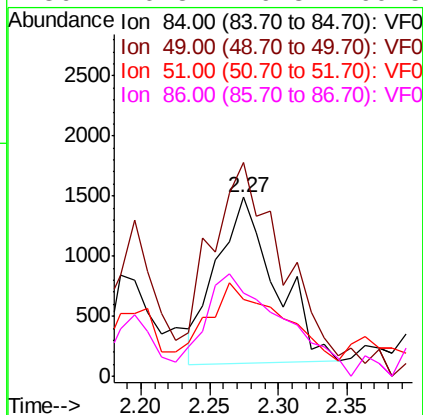
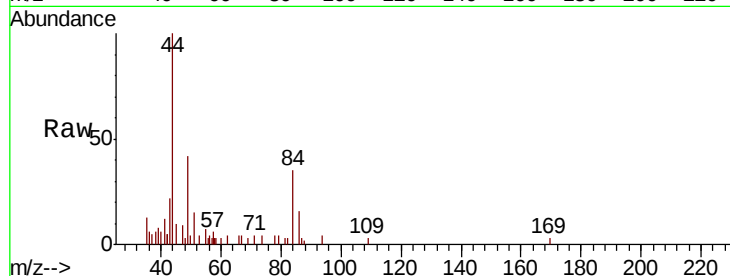




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 167
Delta R.T. 0.02 min
Lab File: VF061141.D
Acq: 22 Dec 2018 13:29

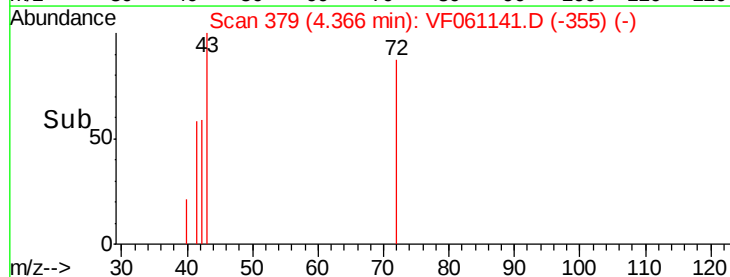
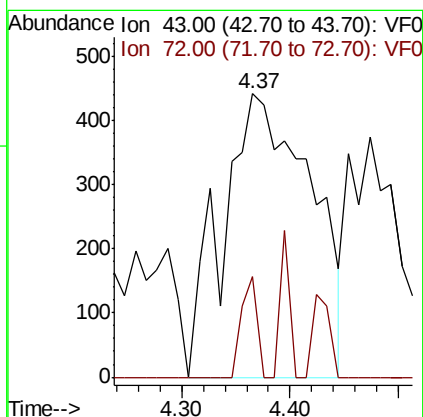
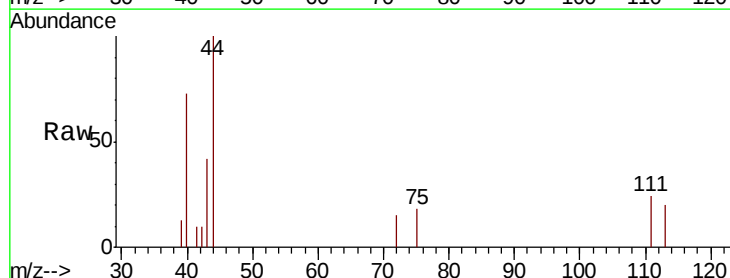
Instrument :
MSVOA_F
ClientSampleId :

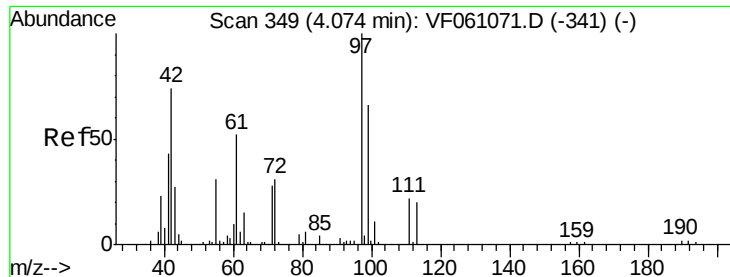
Tot Ion: 84 Resp: 4141
Ion Ratio Lower Upper
84 100
49 119.3 129.4 194.2#
51 42.8 44.0 66.0#
86 46.8 46.3 69.5



#25
2-Butanone
Concen: 2.628 ug/l
RT: 4.37 min Scan# 379
Delta R.T. 0.04 min
Lab File: VF061141.D
Acq: 22 Dec 2018 13:29

Tgt Ion: 43 Resp: 2523
Ion Ratio Lower Upper
43 100
72 35.3 15.6 23.4#





#29

Tetrahydrofuran

Concen: 3.378 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.05 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

Instrument :

MSVOA_F

ClientSampled :

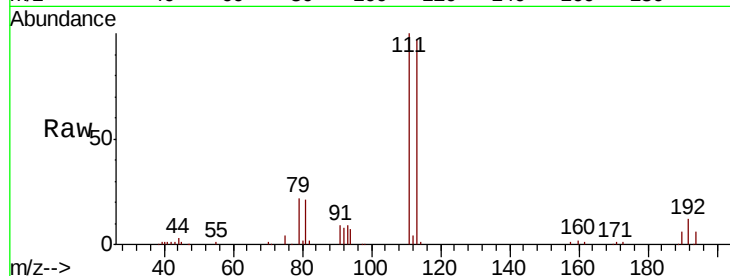
Tot Ion: 42 Resp: 1320

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

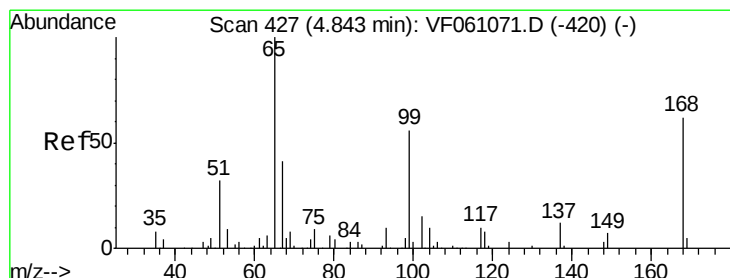
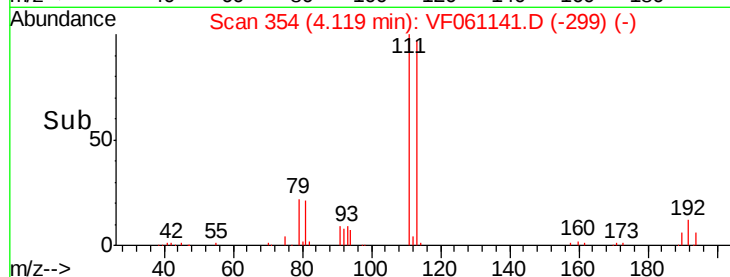
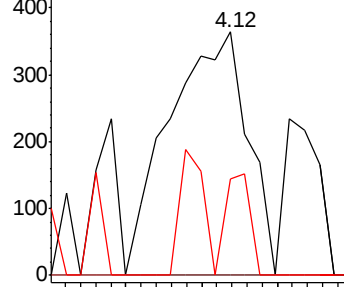
71 13.3 29.7 44.5#



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: 49.788 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.03 min

Lab File: VF061141.D

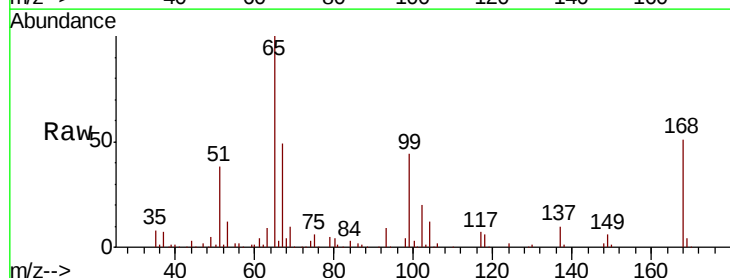
Acq: 22 Dec 2018 13:29

Tgt Ion: 65 Resp: 147444

Ion Ratio Lower Upper

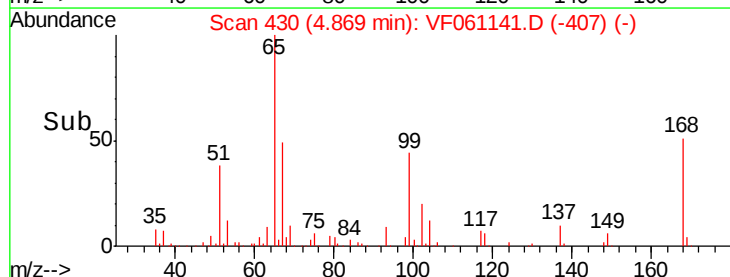
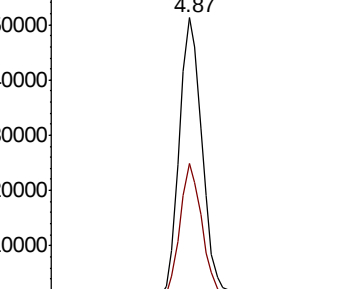
65 100

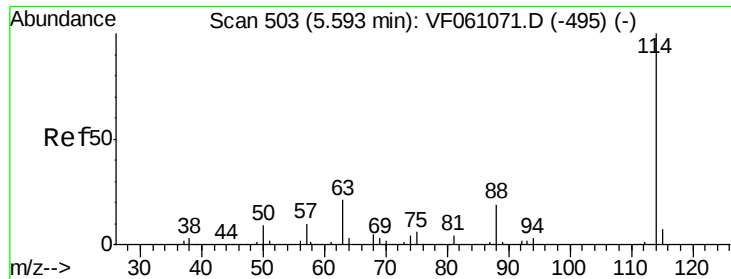
67 48.5 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

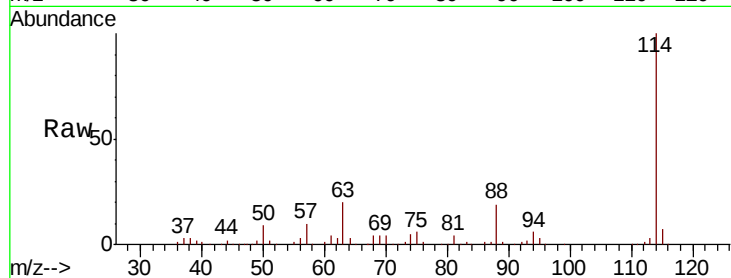




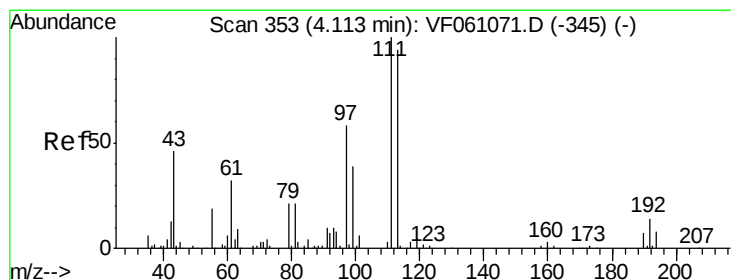
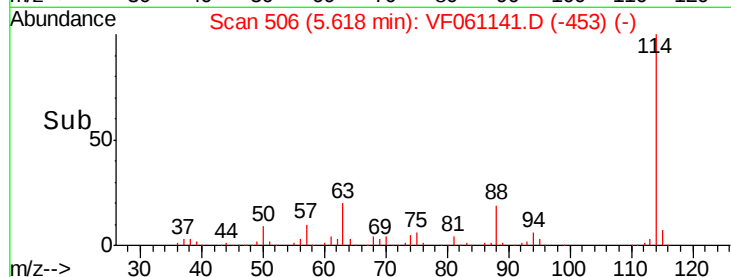
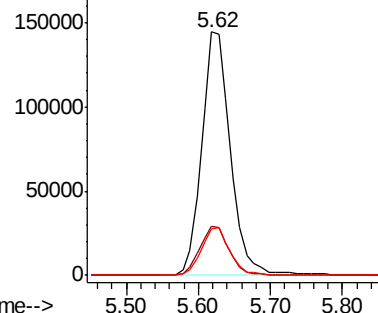
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.62 min Scan# 506
Delta R.T. 0.03 min
Lab File: VF061141.D
Acq: 22 Dec 2018 13:29

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:114 Resp: 399662
Ion Ratio Lower Upper
114 100
63 20.3 0.0 41.6
88 19.3 0.0 38.0

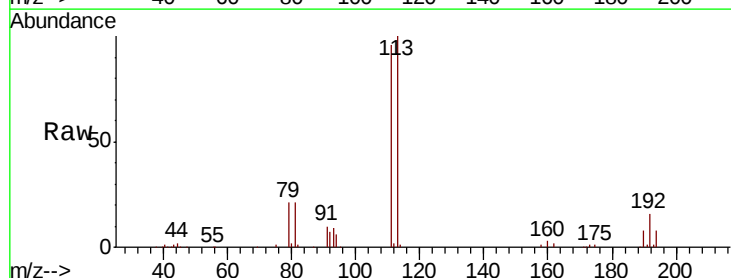


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

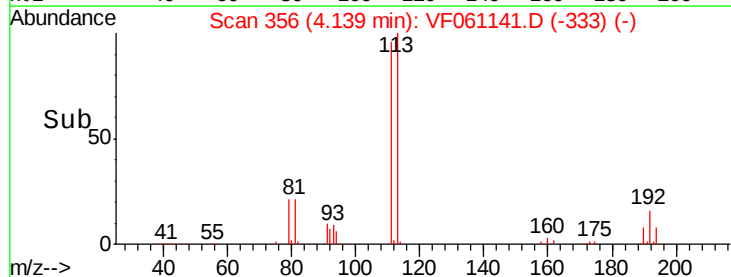
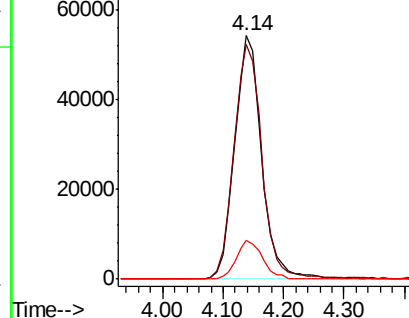


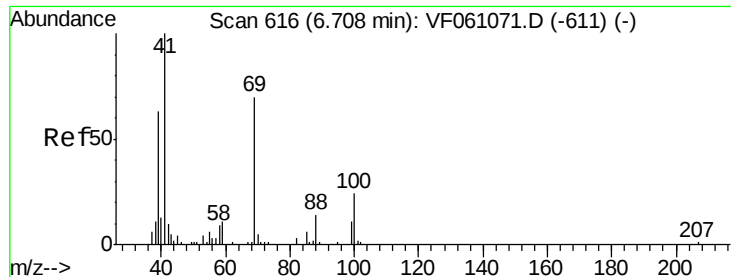
#35
Dibromofluoromethane
Concen: 52.421 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.03 min
Lab File: VF061141.D
Acq: 22 Dec 2018 13:29

Tgt Ion:113 Resp: 167826
Ion Ratio Lower Upper
113 100
111 96.4 85.2 127.8
192 16.0 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: 5.339 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.32 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

Instrument :
MSVOA_F
ClientSampleId :

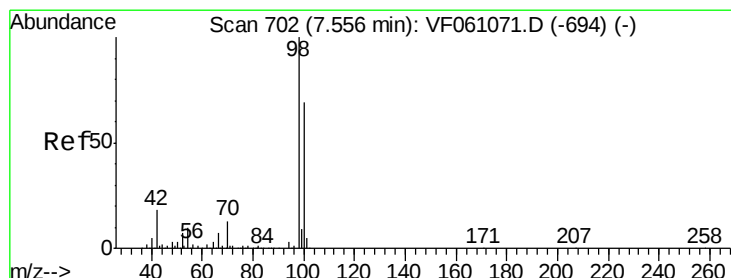
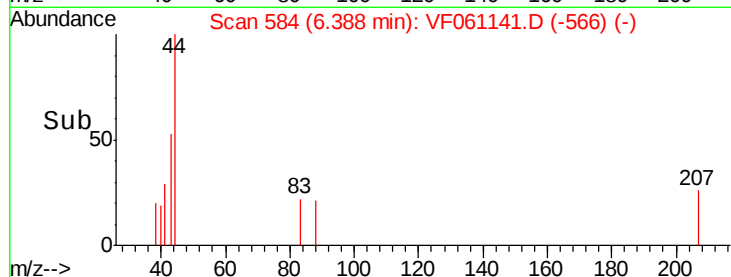
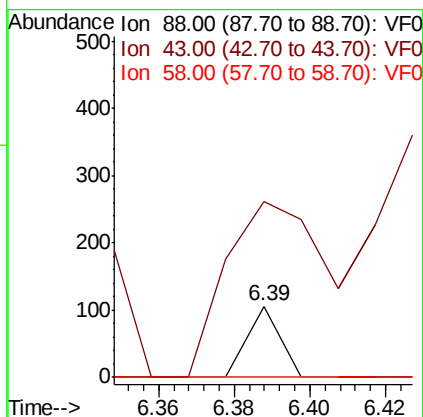
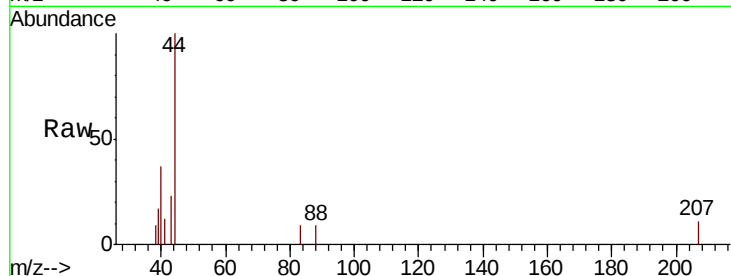
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 246.2 33.3 49.9#

58 0.0 53.2 79.8#



#50

Toluene-d8

Concen: 48.306 ug/l

RT: 7.58 min Scan# 705

Delta R.T. 0.03 min

Lab File: VF061141.D

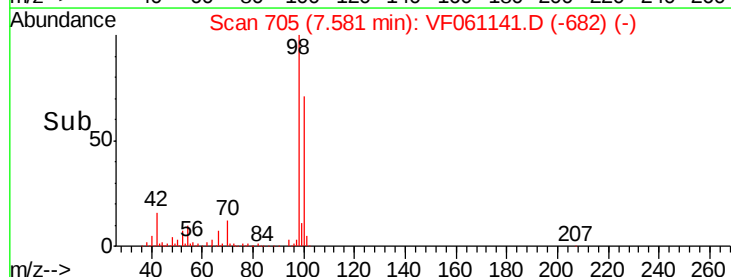
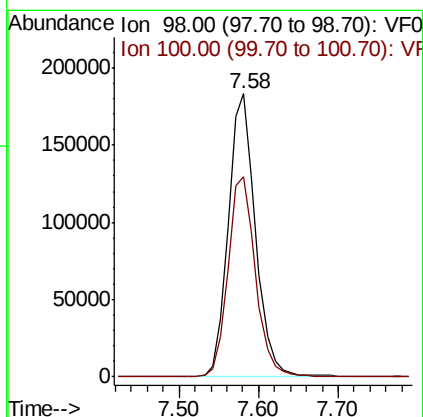
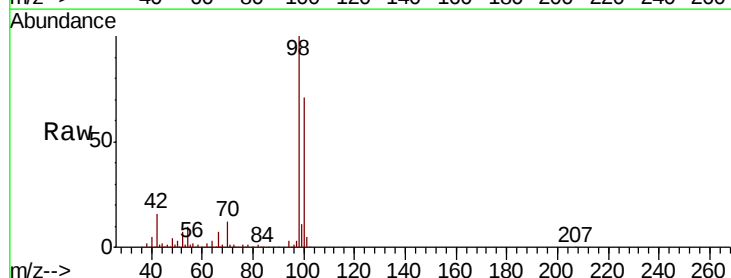
Acq: 22 Dec 2018 13:29

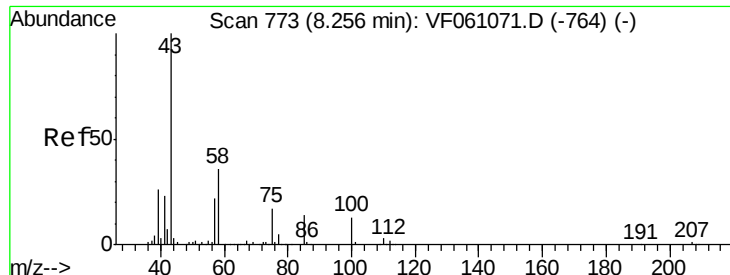
Tgt Ion: 98 Resp: 438270

Ion Ratio Lower Upper

98 100

100 70.7 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 2.991 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.04 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

Instrument :

MSVOA_F

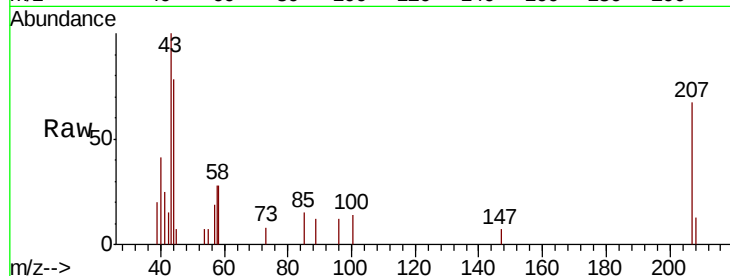
ClientSampleId :

Tot Ion: 43 Resp: 4779

Ion Ratio Lower Upper

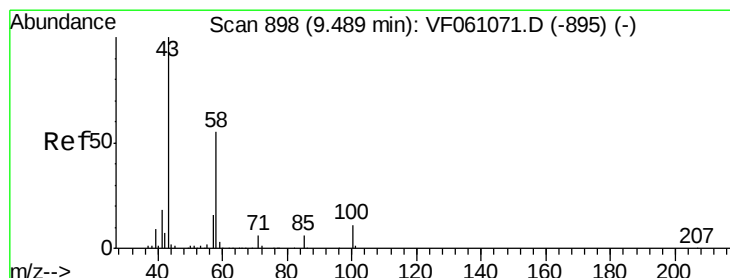
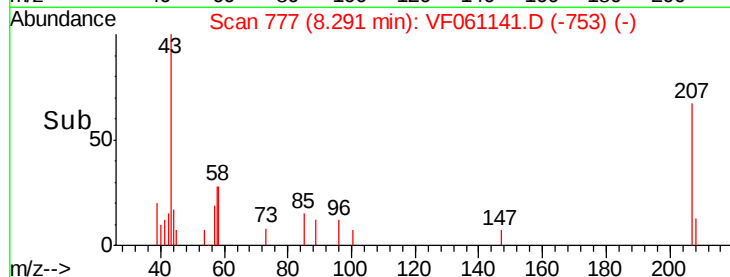
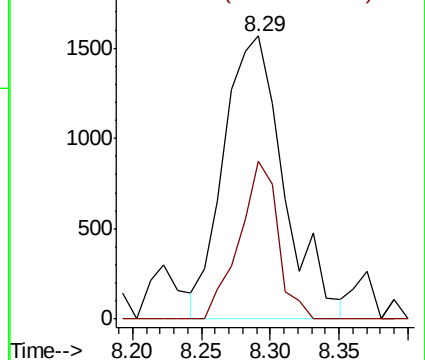
43 100

58 55.6 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 3.827 ug/l

RT: 9.52 min Scan# 902

Delta R.T. 0.04 min

Lab File: VF061141.D

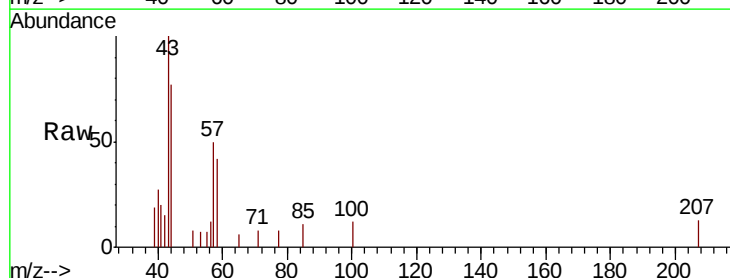
Acq: 22 Dec 2018 13:29

Tgt Ion: 43 Resp: 4421

Ion Ratio Lower Upper

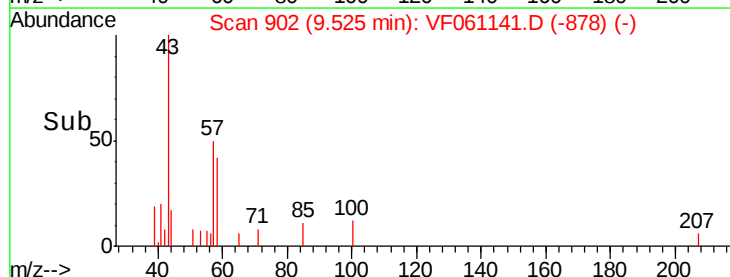
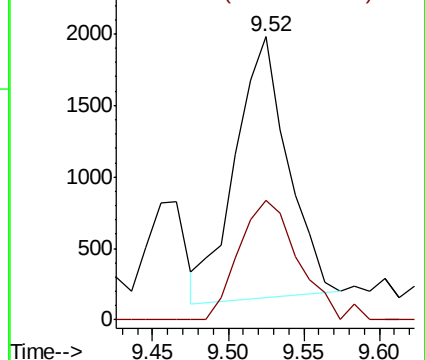
43 100

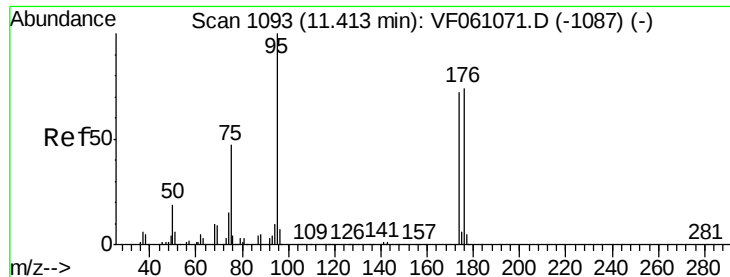
58 42.4 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 50.057 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.02 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

Instrument :

MSVOA_F

ClientSampleId :

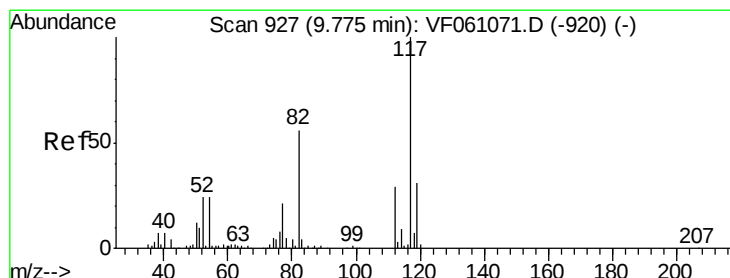
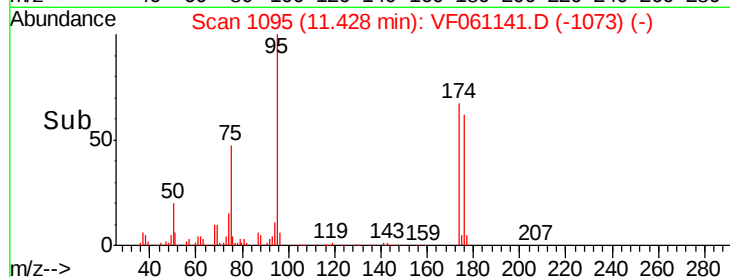
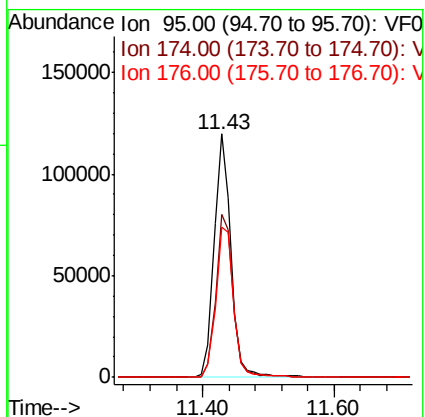
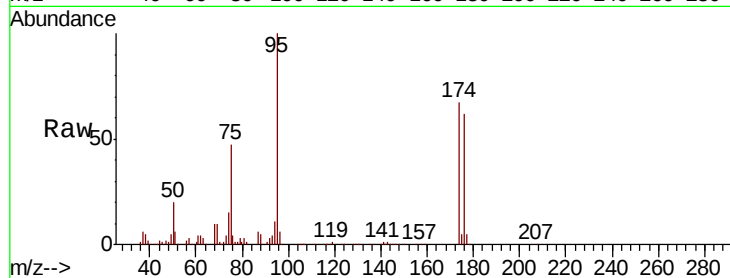
Tot Ion: 95 Resp: 209370

Ion Ratio Lower Upper

95 100

174 66.7 0.0 143.8

176 61.8 0.0 147.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 930

Delta R.T. 0.03 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

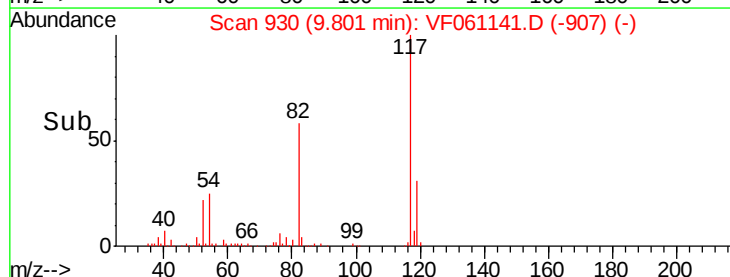
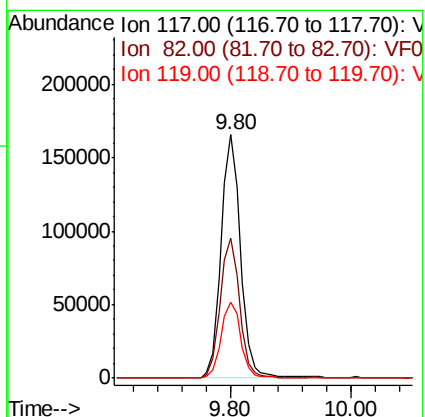
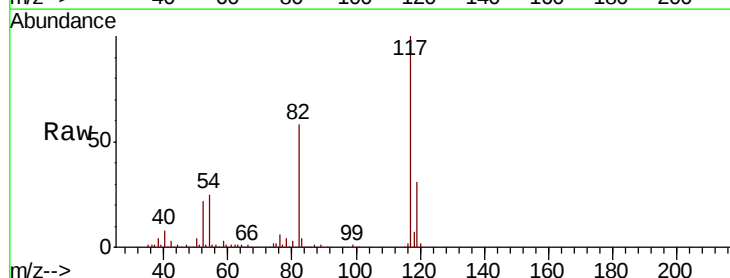
Tgt Ion: 117 Resp: 372532

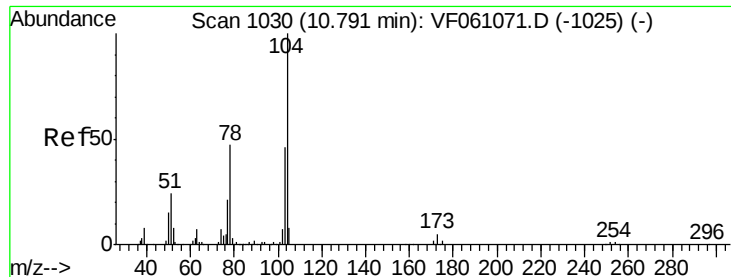
Ion Ratio Lower Upper

117 100

82 57.6 45.0 67.4

119 31.3 24.8 37.2

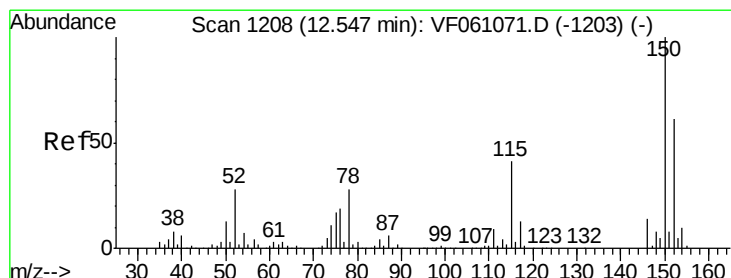
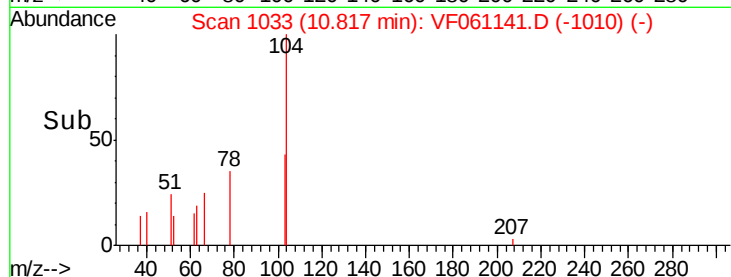
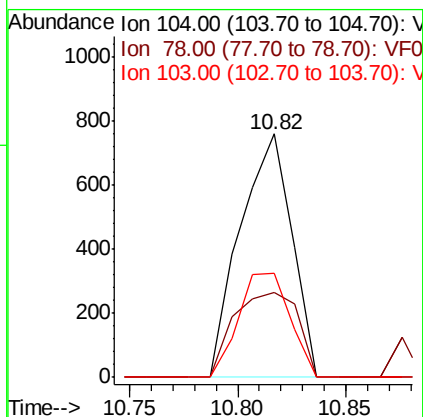
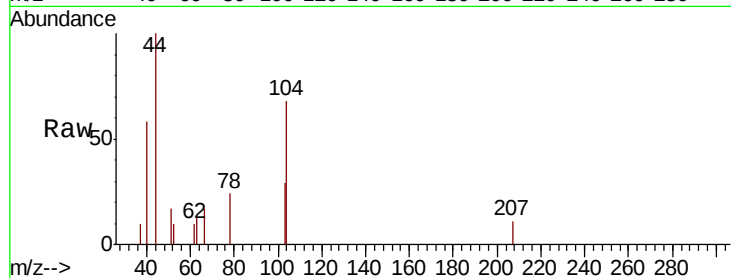




#70
Stvrene
Concen: Below Cal
RT: 10.82 min Scan# 1033
Delta R.T. 0.03 min
Lab File: VF061141.D
Acq: 22 Dec 2018 13:29

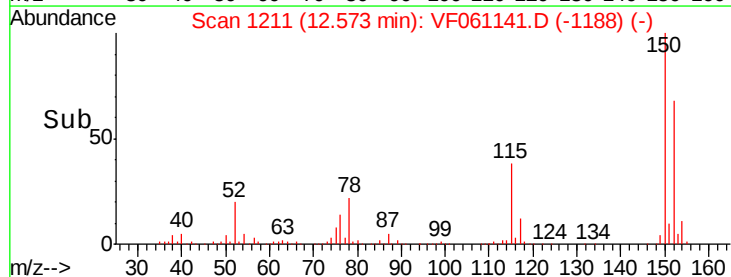
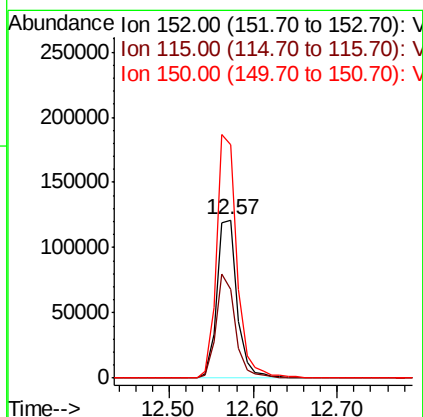
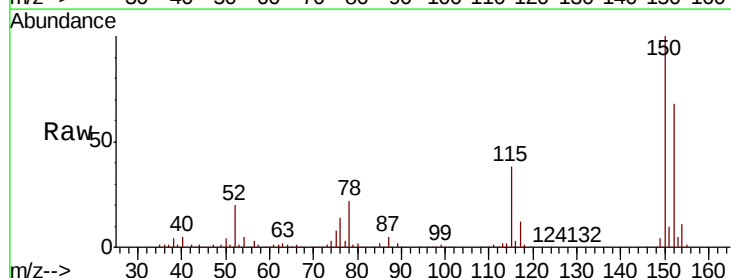
Instrument :
MSVOA_F
ClientSampleId :

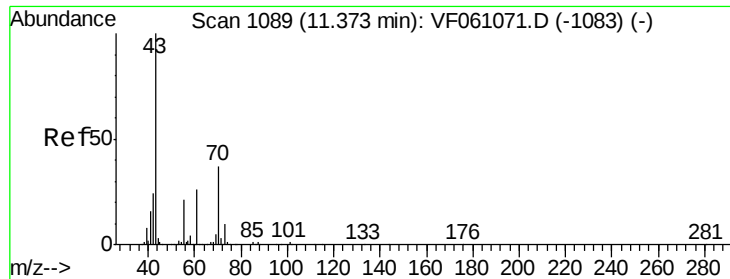
Tot Ion:104 Resp: 1267
Ion Ratio Lower Upper
104 100
78 34.7 38.4 57.6#
103 42.5 37.0 55.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. 0.03 min
Lab File: VF061141.D
Acq: 22 Dec 2018 13:29

Tgt Ion:152 Resp: 204208
Ion Ratio Lower Upper
152 100
115 55.7 33.3 99.9
150 147.1 0.0 328.2





#74

N-amvl acetate

Concen: 1.577 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 6160

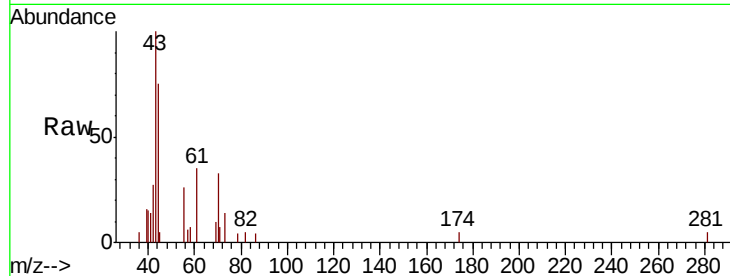
Ion Ratio Lower Upper

43 100

70 33.1 29.2 43.8

55 26.0 16.5 24.7#

61 34.6 20.7 31.1#

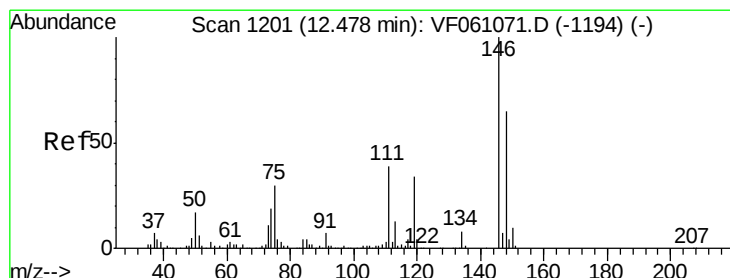
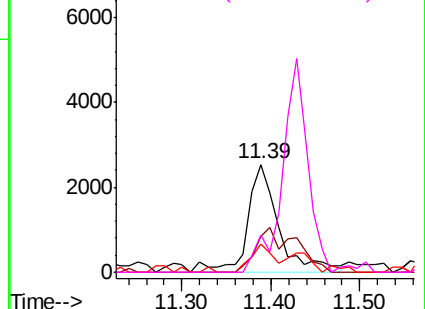
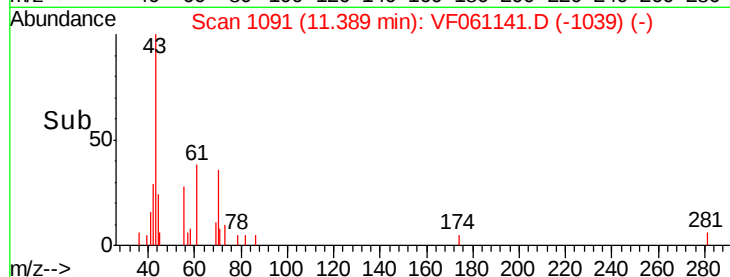


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.49 min Scan# 1203

Delta R.T. 0.02 min

Lab File: VF061141.D

Acq: 22 Dec 2018 13:29

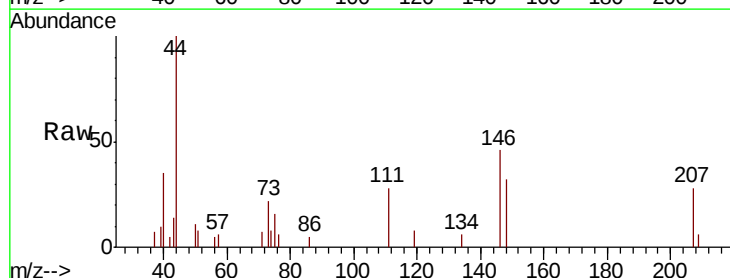
Tgt Ion: 146 Resp: 1338

Ion Ratio Lower Upper

146 100

111 61.0 19.3 57.9#

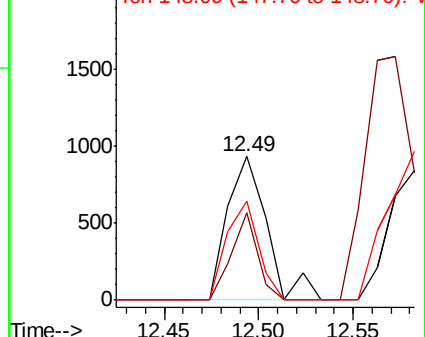
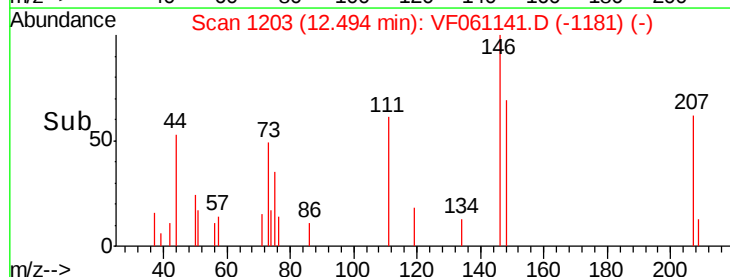
148 69.3 32.4 97.2

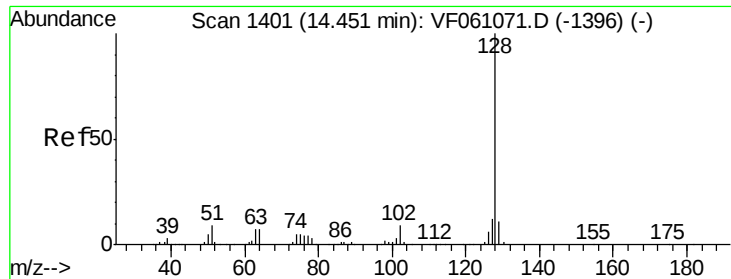


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

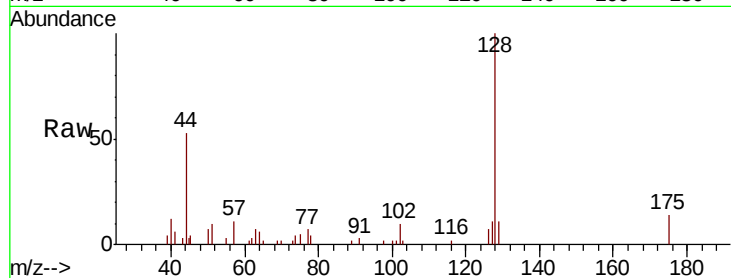




#95
 Naphthalene
 Concen: 1.156 ug/l
 RT: 14.48 min Scan# 1404
 Delta R.T. 0.03 min
 Lab File: VF061141.D
 Acq: 22 Dec 2018 13:29

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:128 Resp: 10138
 Ion Ratio Lower Upper
 128 100
 127 10.8 9.4 14.2
 129 10.5 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

