

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
 Data File : VF061144.D
 Acq On : 22 Dec 2018 15:02
 Operator : VA/AP
 Sample : J6188-03RE
 Misc : 6.76g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 02:56:38 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

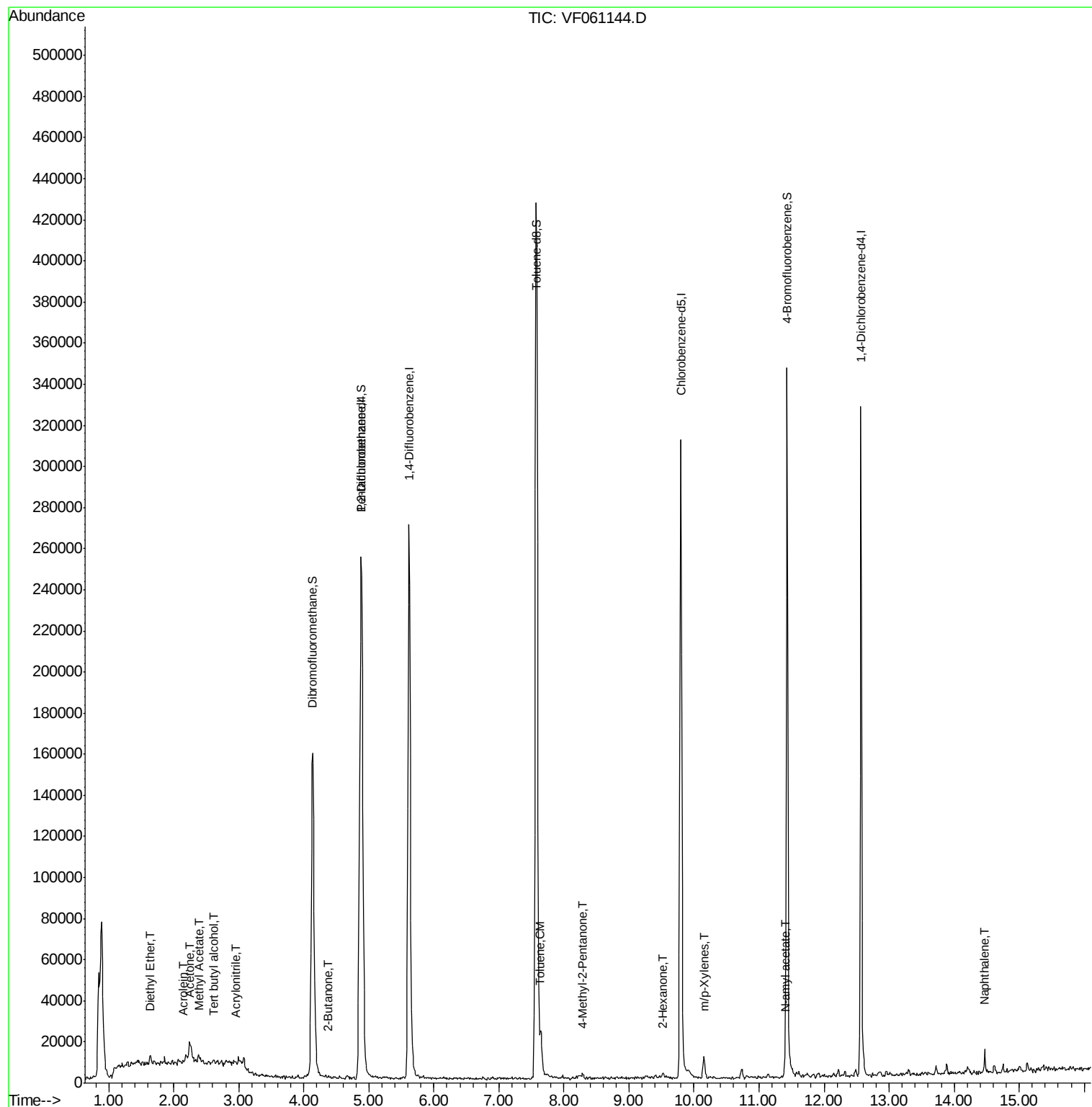
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	160983	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	306267	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.80	117	230329	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.56	152	77402	50.00	ug/l	0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	134595	65.01	ug/l	0.03
Spiked Amount 50.000			Recovery	=	130.02%	
35) Dibromofluoromethane	4.14	113	151100	61.59	ug/l	0.03
Spiked Amount 50.000			Recovery	=	123.18%	
50) Toluene-d8	7.57	98	362966	52.21	ug/l	0.02
Spiked Amount 50.000			Recovery	=	104.42%	
62) 4-Bromofluorobenzene	11.43	95	134943	42.10	ug/l	0.02
Spiked Amount 50.000			Recovery	=	84.20%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.64	74	1694	3.407	ug/l	71
11) Tert butyl alcohol	2.60	59	125	1.496	ug/l #	1
13) Acrolein	2.14	56	554	9.176	ug/l	99
15) Acrylonitrile	2.95	53	793	4.104	ug/l #	49
16) Acetone	2.25	43	6867	16.590	ug/l	97
18) Methyl Acetate	2.38	43	3225	3.766	ug/l #	83
20) Methylene Chloride	2.25	84	3685	Below Cal	#	89
25) 2-Butanone	4.38	43	1804	2.687	ug/l #	57
51) 4-Methyl-2-Pentanone	8.29	43	2484	2.029	ug/l	91
52) Toluene	7.64	92	10587	2.012	ug/l	93
59) 2-Hexanone	9.52	43	3441	3.887	ug/l	68
68) m/p-Xylenes	10.16	106	3582	1.174	ug/l	93
70) Styrene	10.82	104	485	Below Cal		91
74) N-amyl acetate	11.39	43	2406	1.625	ug/l #	87
87) 1,3-Dichlorobenzene	12.58	146	975	Below Cal		78
95) Naphthalene	14.47	128	6001	1.805	ug/l	98

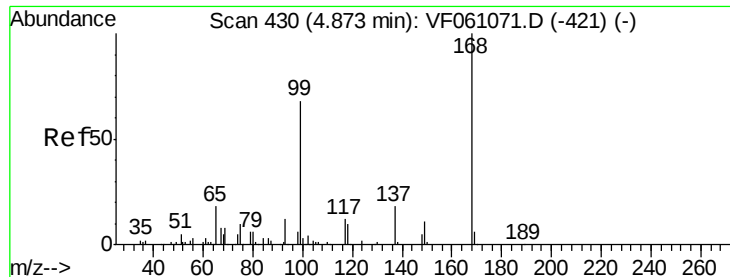
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF122218\
Data File : VF061144.D
Acq On : 22 Dec 2018 15:02
Operator : VA/AP
Sample : J6188-03RE
Misc : 6.76g/5mL/MSVOA-F/SOIL
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Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Dec 24 02:56:38 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: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

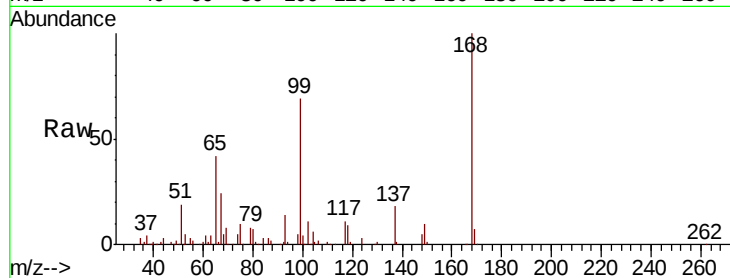
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 160983

Ion Ratio Lower Upper

168 100

99 68.5 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

60000

50000

40000

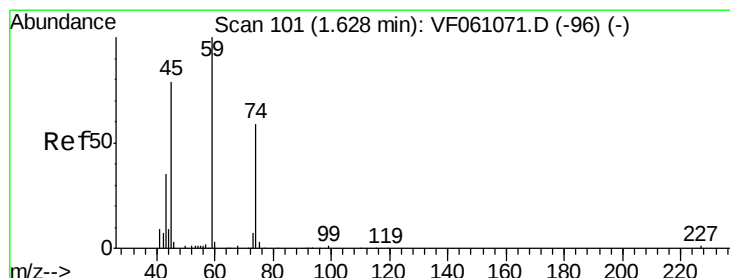
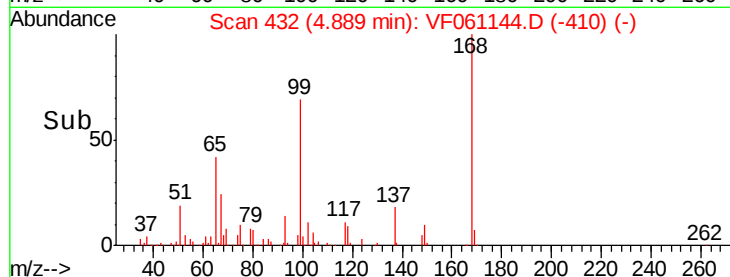
30000

20000

10000

0

Time-->



#8

Diethyl Ether

Concen: 3.407 ug/l

RT: 1.64 min Scan# 103

Delta R.T. 0.02 min

Lab File: VF061144.D

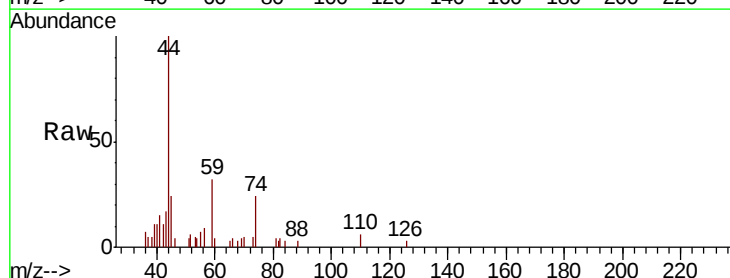
Acq: 22 Dec 2018 15:02

Tgt Ion: 74 Resp: 1694

Ion Ratio Lower Upper

74 100

45 101.0 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

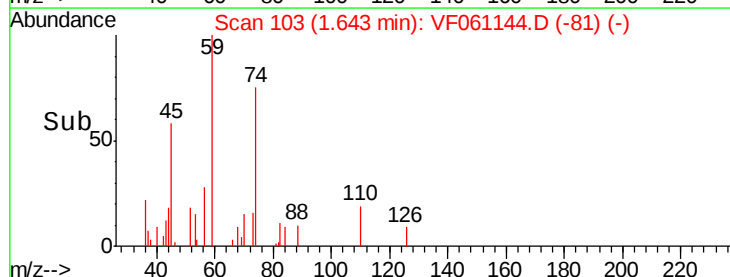
1.64

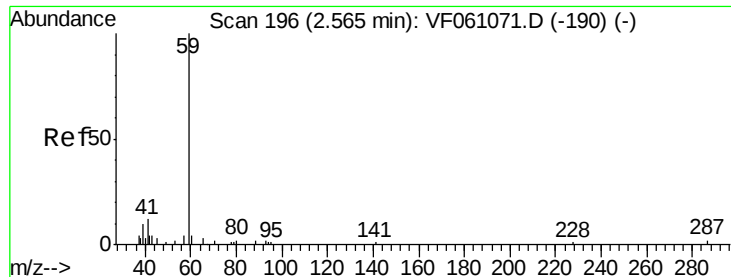
1000

500

0

Time-->

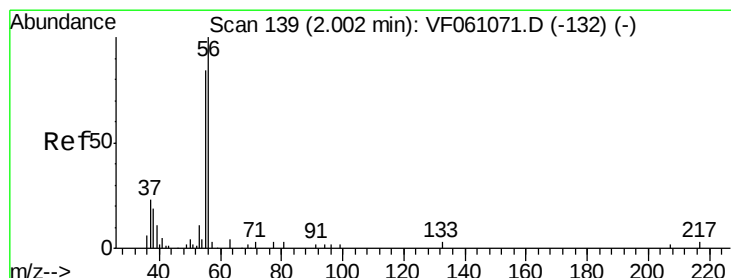
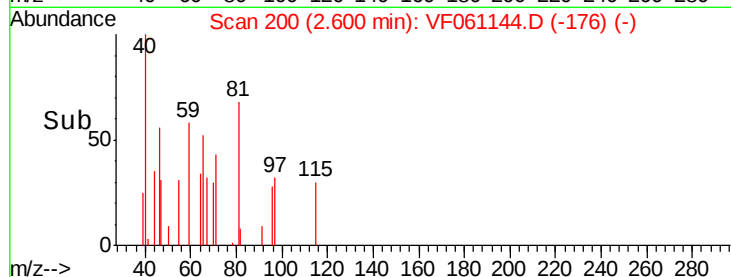
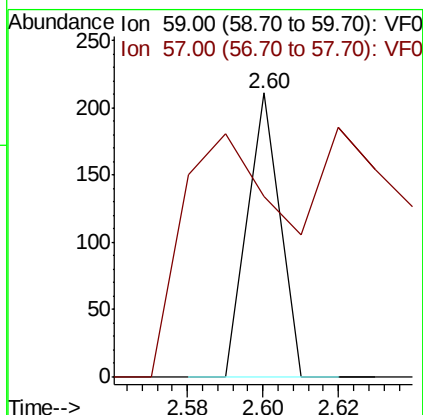
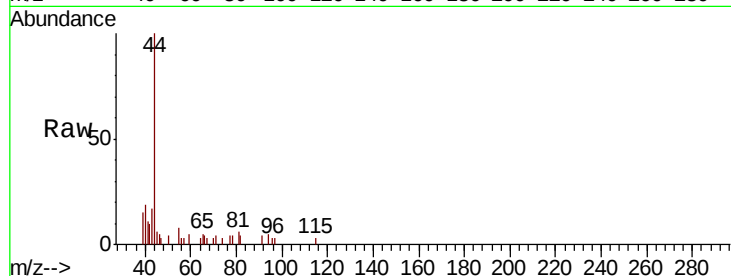




#11
Tert butyl alcohol
Concen: 1.496 ug/l
RT: 2.60 min Scan# 200
Delta R.T. 0.04 min
Lab File: VF061144.D
Acq: 22 Dec 2018 15:02

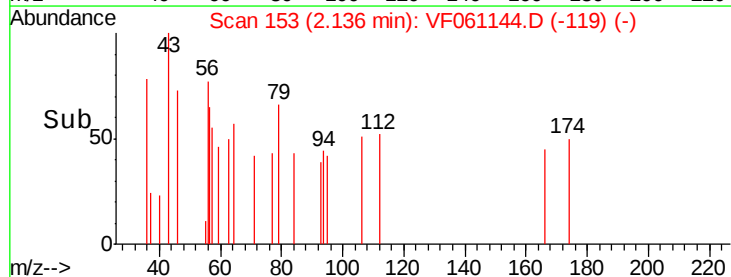
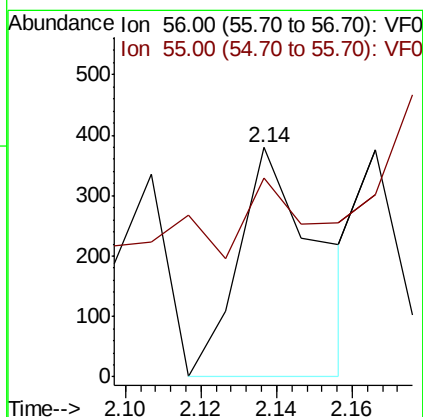
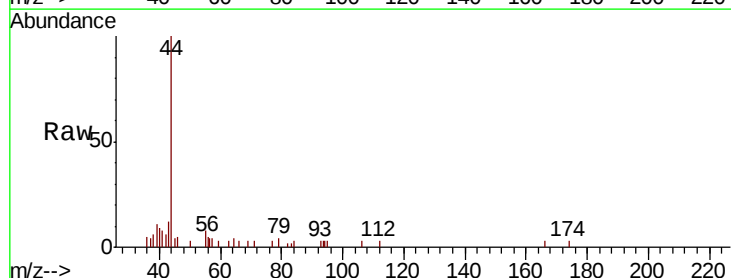
Instrument :
MSVOA_F
ClientSampled :

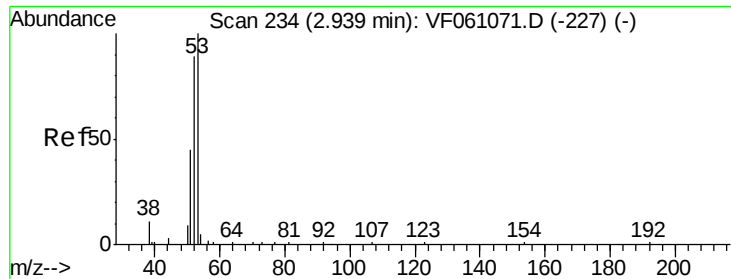
Tot Ion: 59 Resp: 125
Ion Ratio Lower Upper
59 100
57 63.5 11.5 17.3#



#13
Acrolein
Concen: 9.176 ug/l
RT: 2.14 min Scan# 153
Delta R.T. 0.13 min
Lab File: VF061144.D
Acq: 22 Dec 2018 15:02

Tgt Ion: 56 Resp: 554
Ion Ratio Lower Upper
56 100
55 87.1 70.2 105.2





#15

Acrylonitrile

Concen: 4.104 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

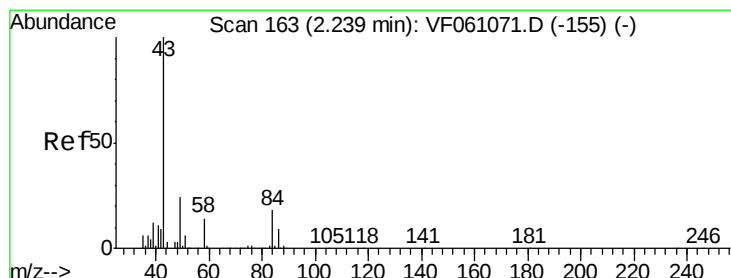
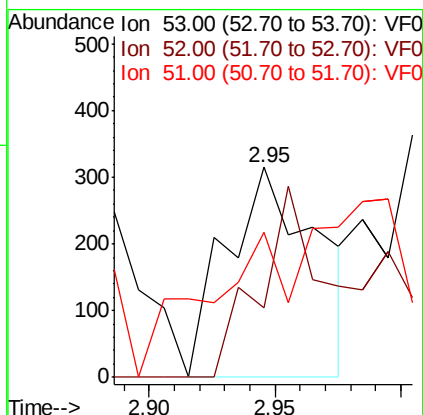
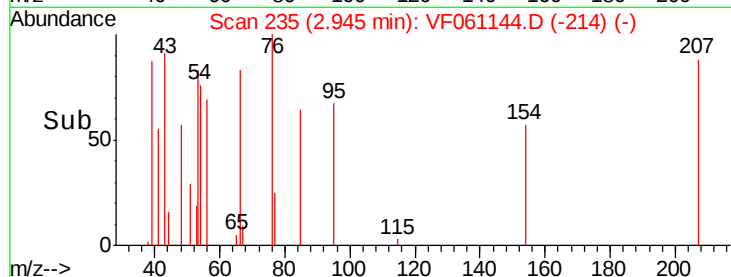
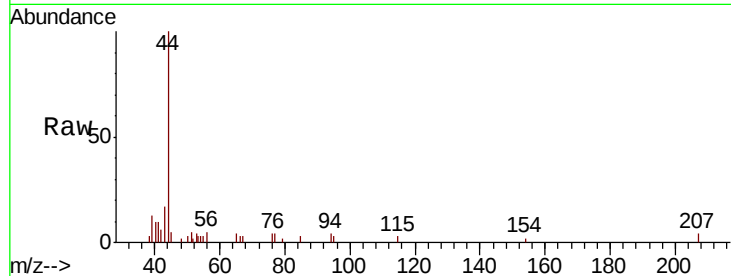
Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 53 Resp: 793

Ion	Ratio	Lower	Upper
53	100		
52	33.0	71.3	106.9#
51	68.9	36.8	55.2#



#16

Acetone

Concen: 16.590 ug/l

RT: 2.25 min Scan# 165

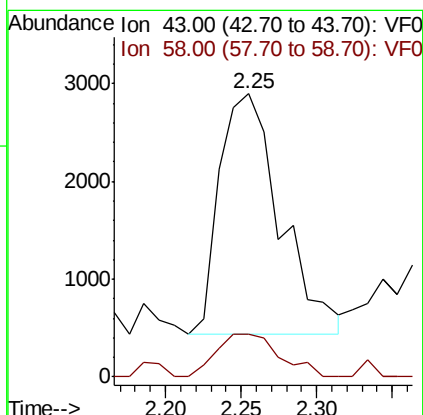
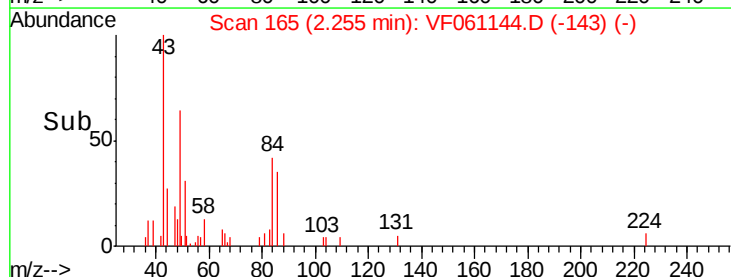
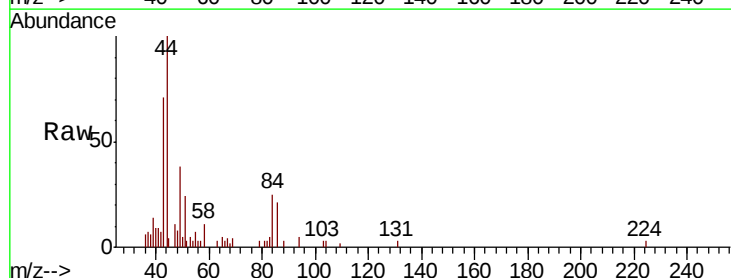
Delta R.T. 0.02 min

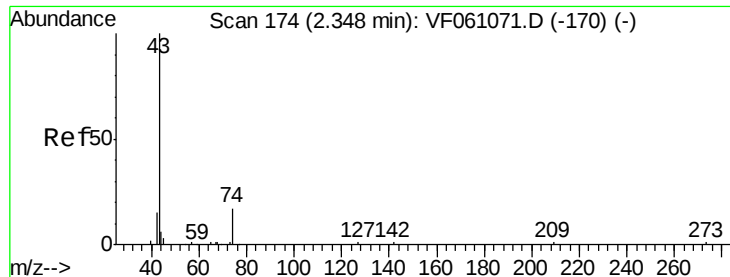
Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

Tgt Ion: 43 Resp: 6867

Ion	Ratio	Lower	Upper
43	100		
58	15.3	11.1	16.7

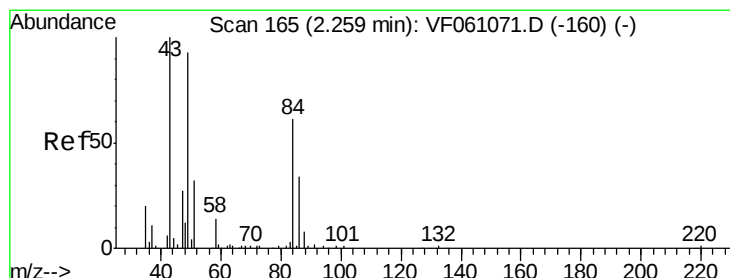
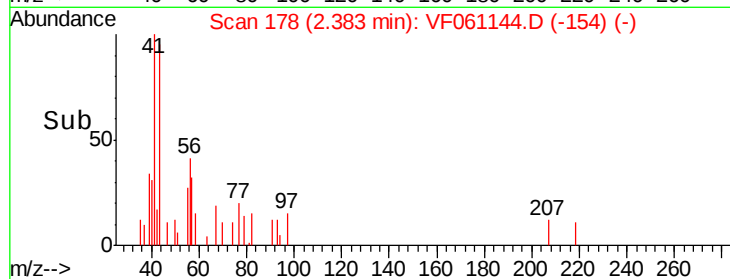
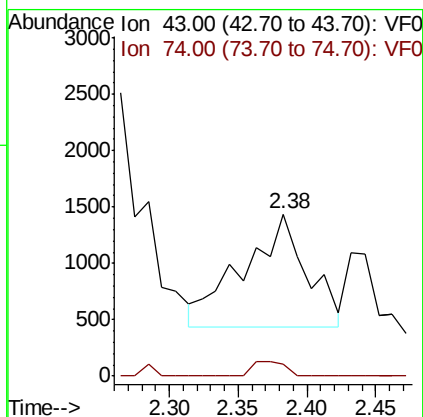
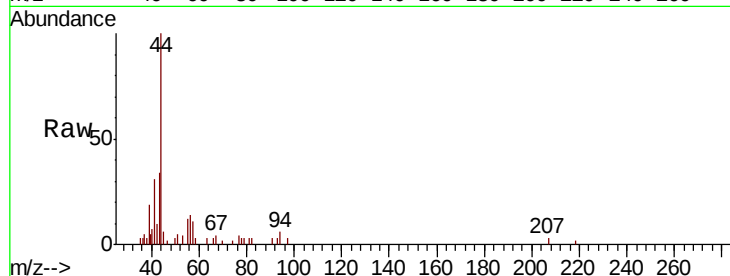




#18
Methyl Acetate
Concen: 3.766 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.04 min
Lab File: VF061144.D
Acq: 22 Dec 2018 15:02

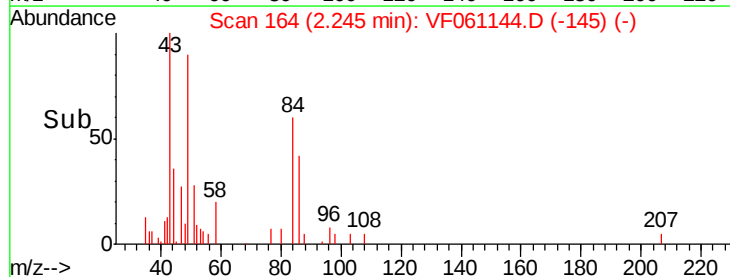
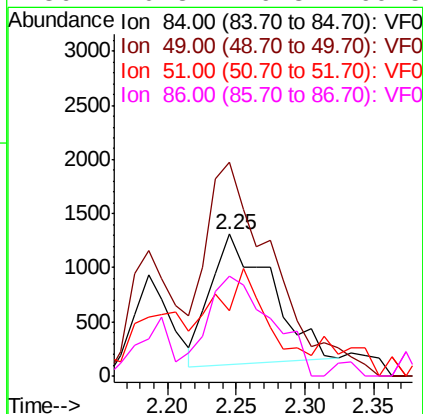
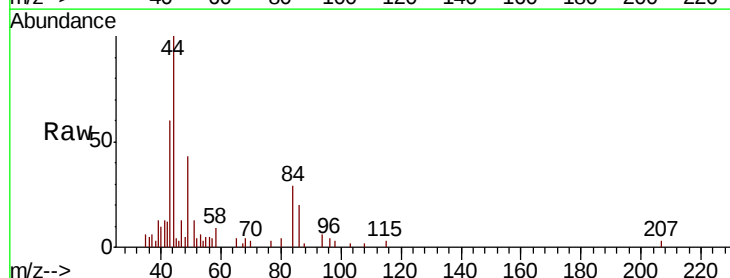
Instrument :
MSVOA_F
ClientSampled :

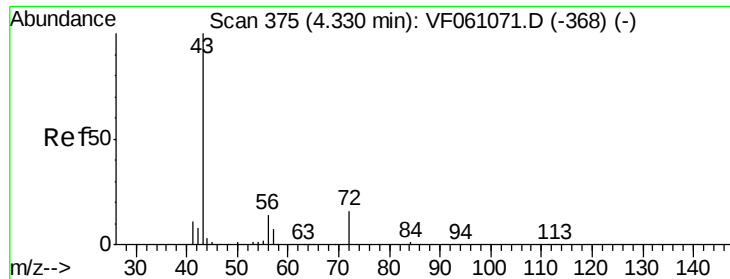
Tot Ion: 43 Resp: 3225
Ion Ratio Lower Upper
43 100
74 7.1 11.0 16.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF061144.D
Acq: 22 Dec 2018 15:02

Tgt Ion: 84 Resp: 3685
Ion Ratio Lower Upper
84 100
49 150.7 129.4 194.2
51 46.5 44.0 66.0
86 70.3 46.3 69.5#





#25

2-Butanone

Concen: 2.687 ug/l

RT: 4.38 min Scan# 380

Delta R.T. 0.05 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

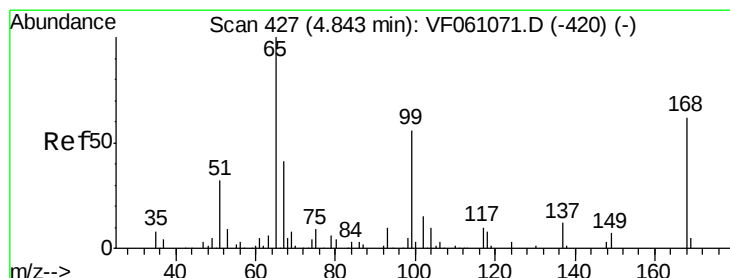
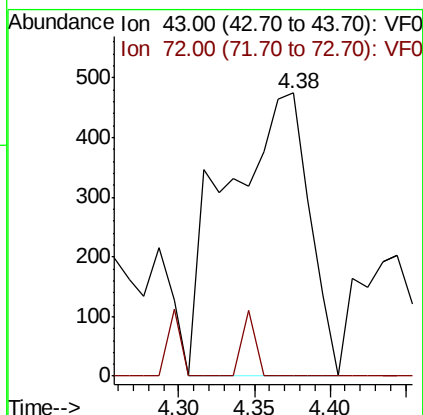
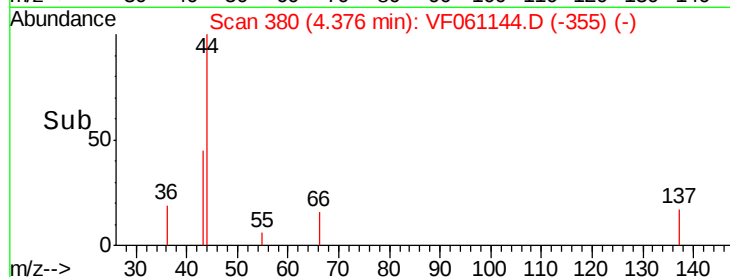
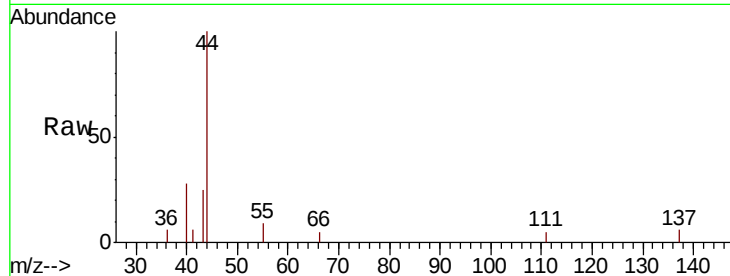
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1804

Ion Ratio Lower Upper

43 100

72 0.0 15.6 23.4#



#33

1,2-Dichloroethane-d4

Concen: 65.005 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.03 min

Lab File: VF061144.D

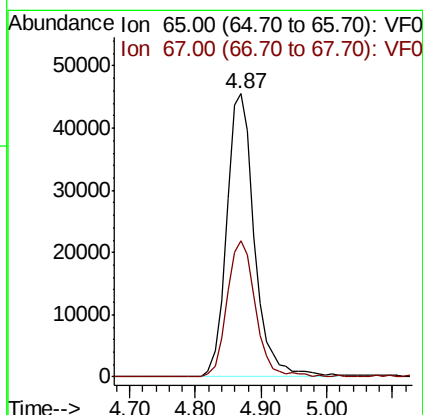
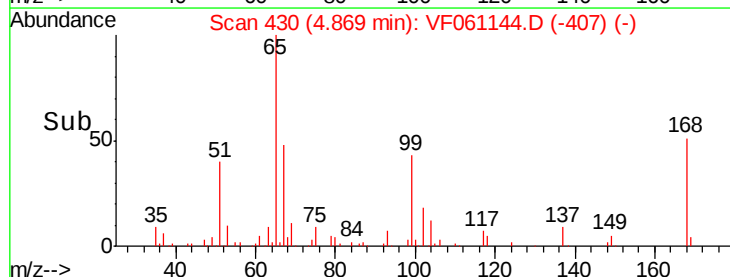
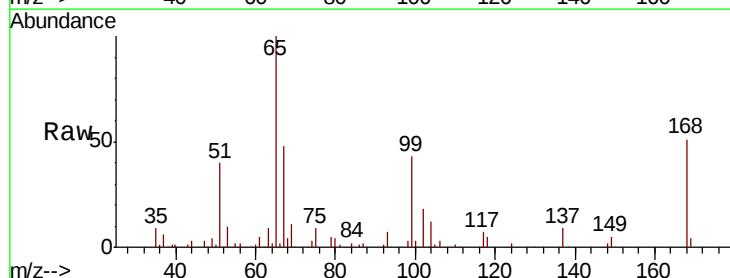
Acq: 22 Dec 2018 15:02

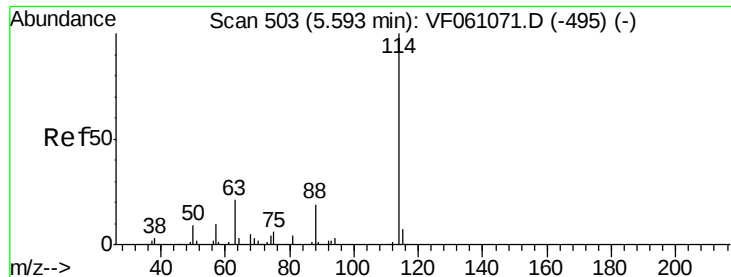
Tgt Ion: 65 Resp: 134595

Ion Ratio Lower Upper

65 100

67 48.3 0.0 94.6

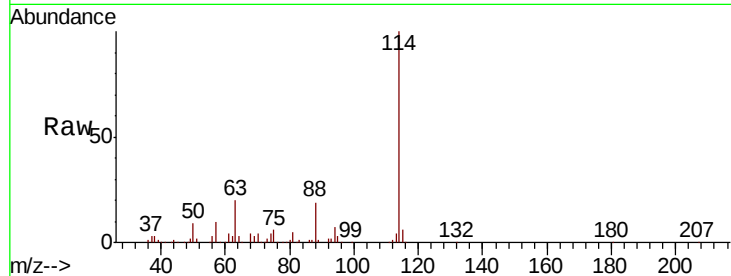




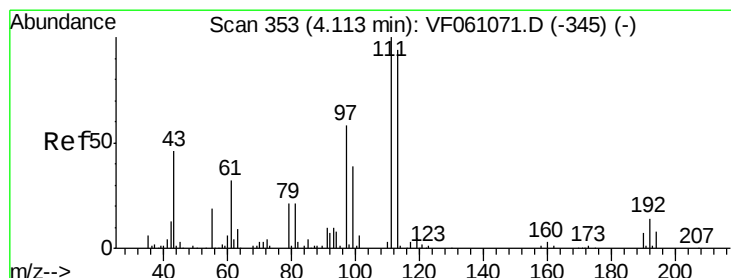
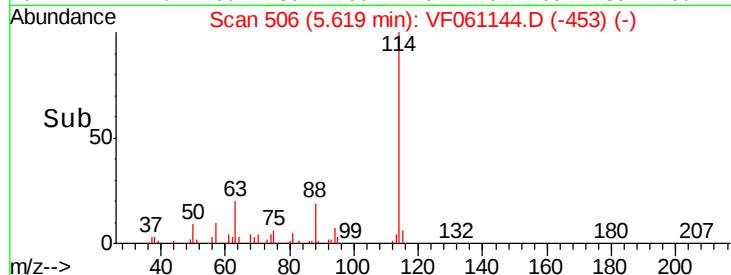
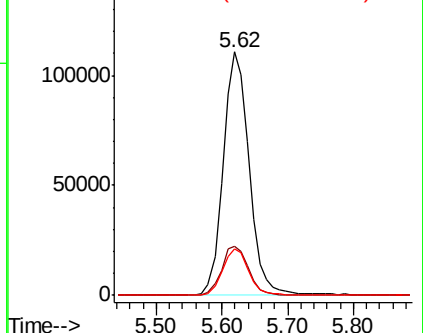
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. 0.03 min
 Lab File: VF061144.D
 Acq: 22 Dec 2018 15:02

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	41.6
88	19.1	0.0	38.0

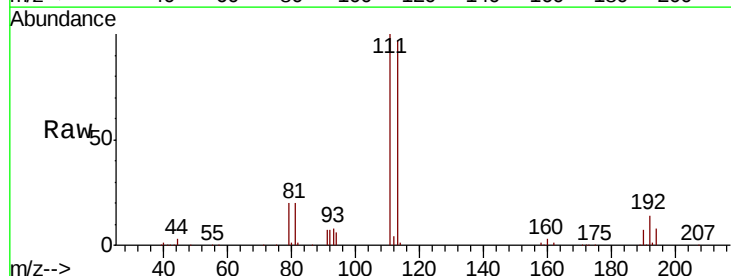


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

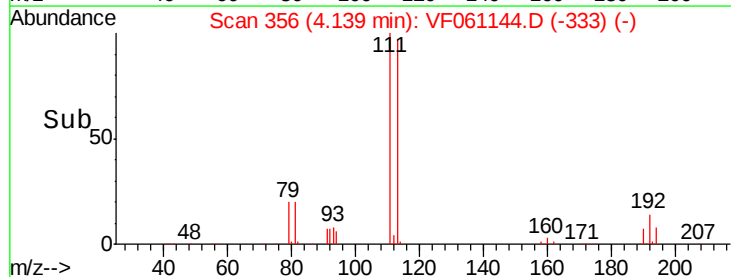
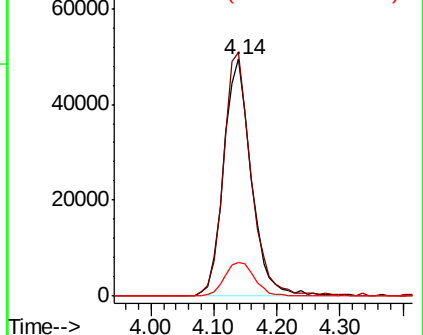


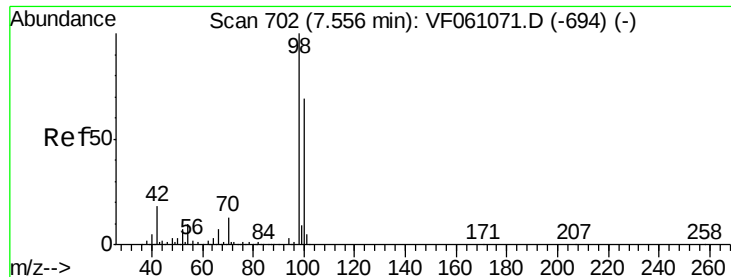
#35
 Dibromofluoromethane
 Concen: 61.589 ug/l
 RT: 4.14 min Scan# 356
 Delta R.T. 0.03 min
 Lab File: VF061144.D
 Acq: 22 Dec 2018 15:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	85.2	127.8
192	15.1	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





#50

Toluene-d8

Concen: 52.206 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

Instrument :

MSVOA_F

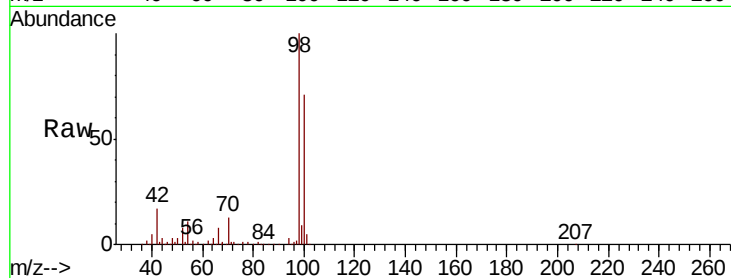
ClientSampleId :

Tot Ion: 98 Resp: 362966

Ion Ratio Lower Upper

98 100

100 71.3 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.57

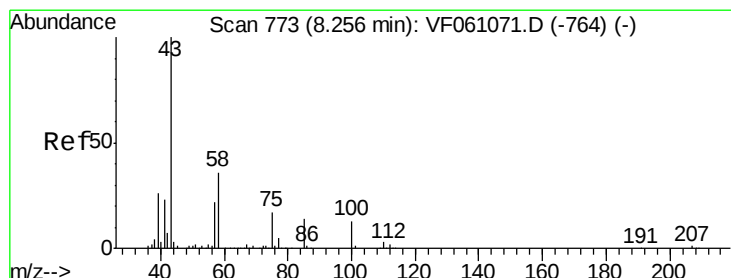
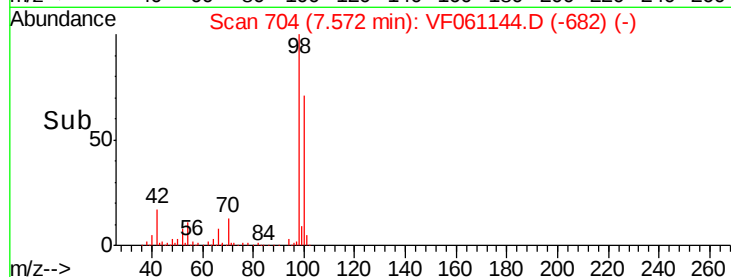
150000

100000

50000

0

Time--> 7.40 7.50 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 2.029 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.04 min

Lab File: VF061144.D

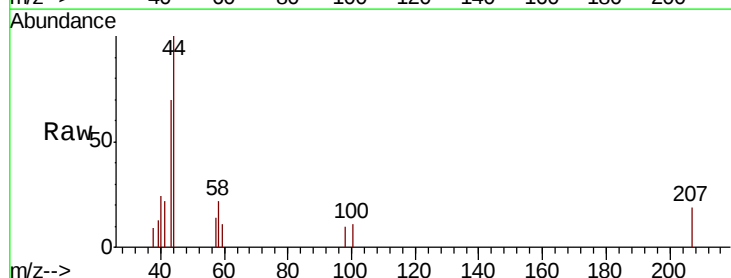
Acq: 22 Dec 2018 15:02

Tgt Ion: 43 Resp: 2484

Ion Ratio Lower Upper

43 100

58 31.1 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

1000

800

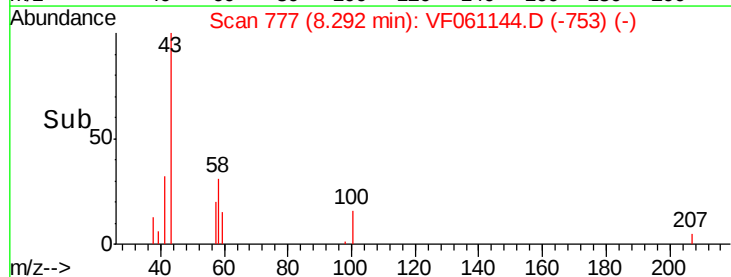
600

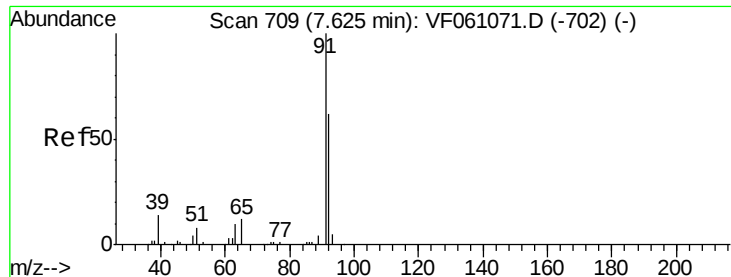
400

200

0

Time--> 8.20 8.25 8.30 8.35





#52

Toluene

Concen: 2.012 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

Instrument :

MSVOA_F

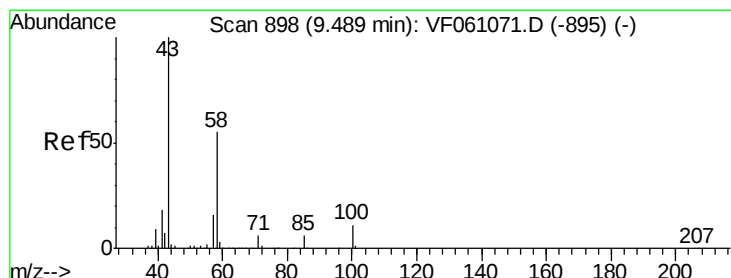
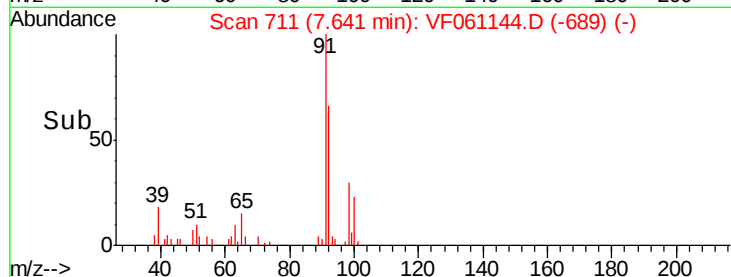
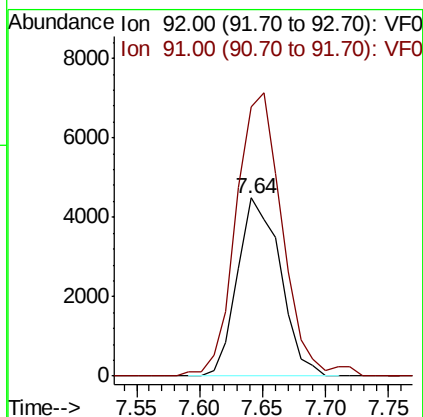
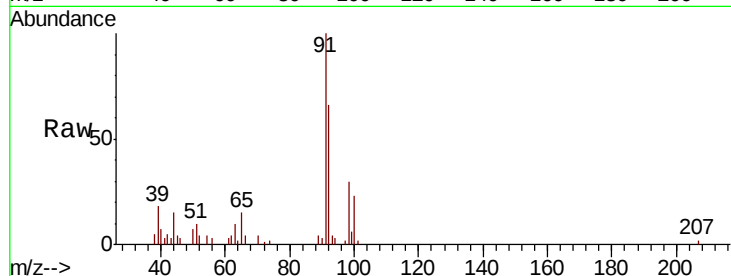
ClientSampleId :

Tot Ion: 92 Resp: 10587

Ion Ratio Lower Upper

92 100

91 151.4 128.8 193.2



#59

2-Hexanone

Concen: 3.887 ug/l

RT: 9.52 min Scan# 902

Delta R.T. 0.04 min

Lab File: VF061144.D

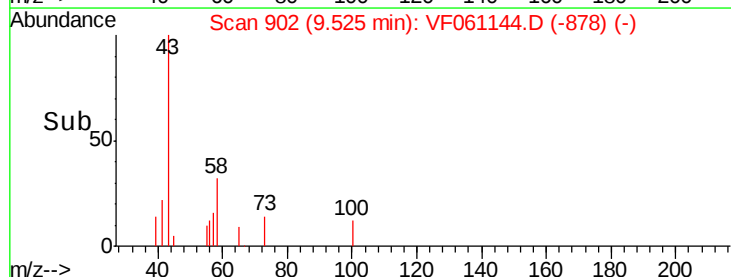
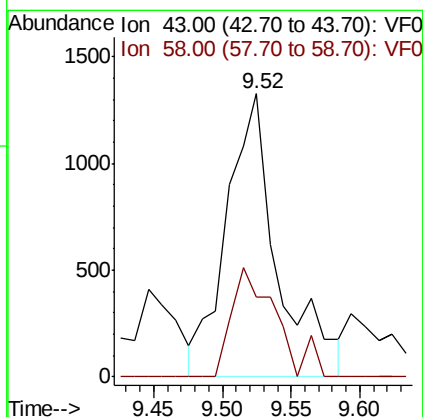
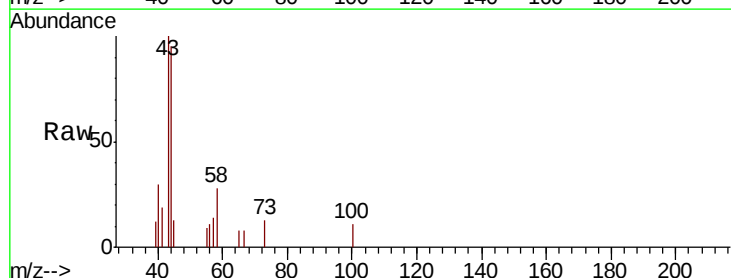
Acq: 22 Dec 2018 15:02

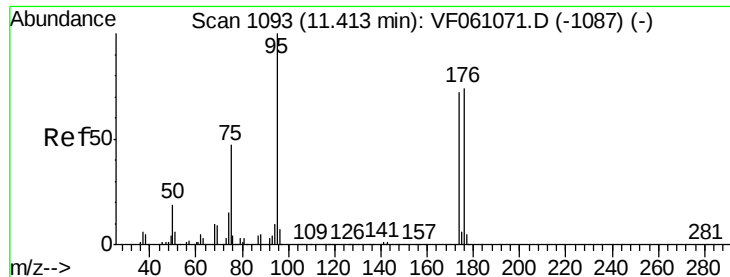
Tgt Ion: 43 Resp: 3441

Ion Ratio Lower Upper

43 100

58 28.2 25.1 75.2





#62

4-Bromofluorobenzene

Concen: 42.101 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.02 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

Instrument :

MSVOA_F

ClientSampleId :

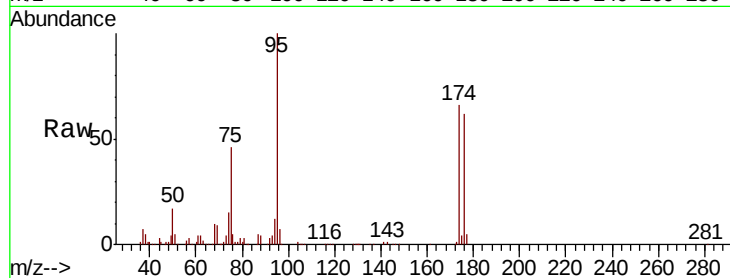
Tot Ion: 95 Resp: 134943

Ion Ratio Lower Upper

95 100

174 66.2 0.0 143.8

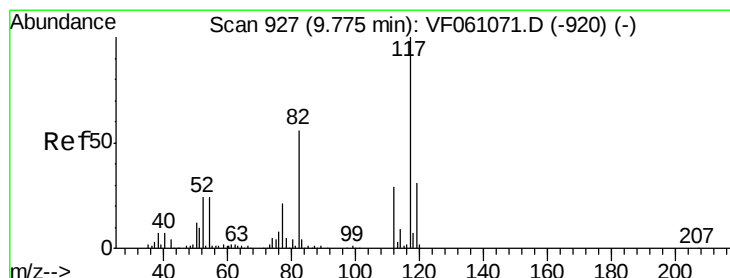
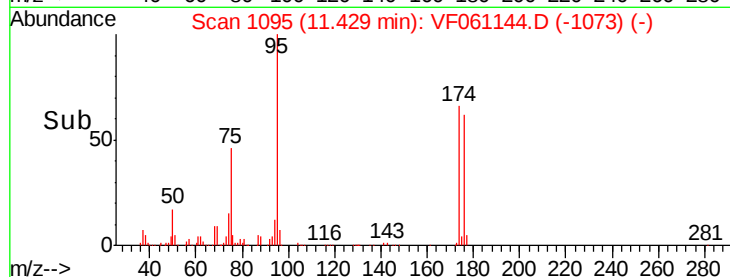
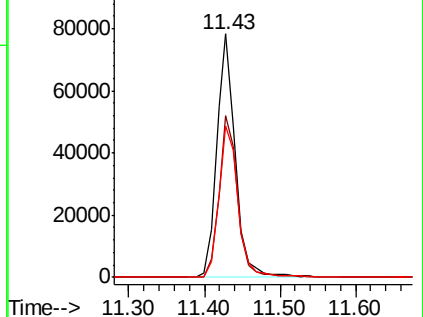
176 62.3 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 930

Delta R.T. 0.03 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

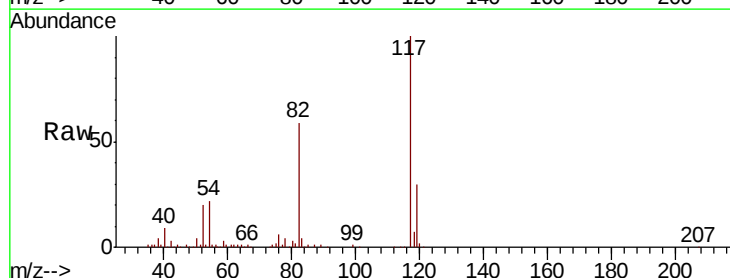
Tgt Ion: 117 Resp: 230329

Ion Ratio Lower Upper

117 100

82 58.7 45.0 67.4

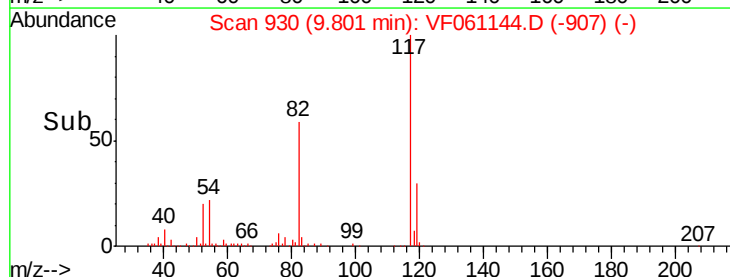
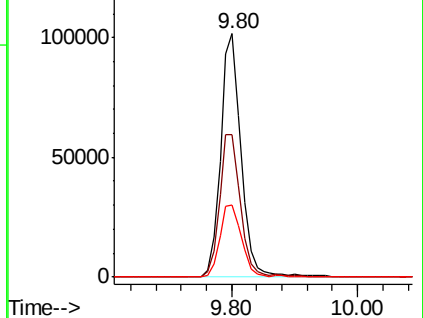
119 29.8 24.8 37.2

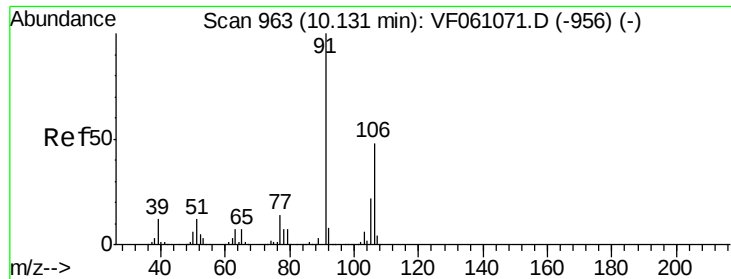


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

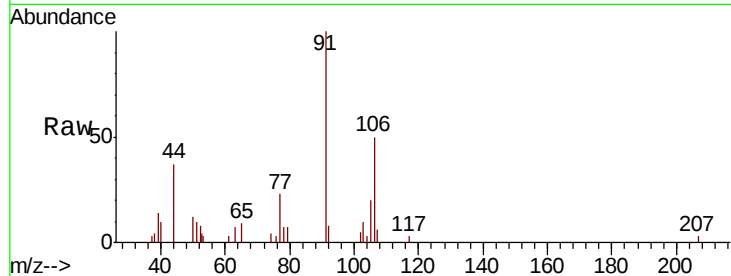




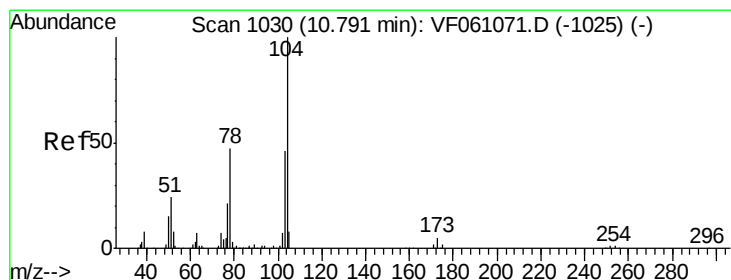
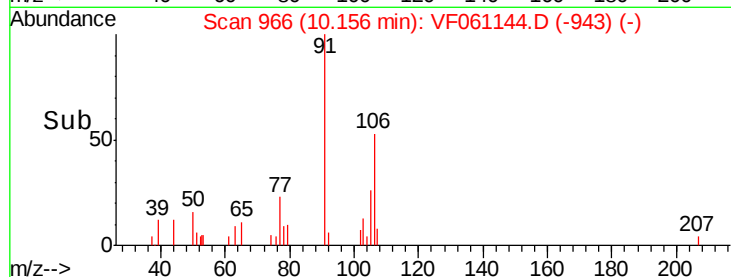
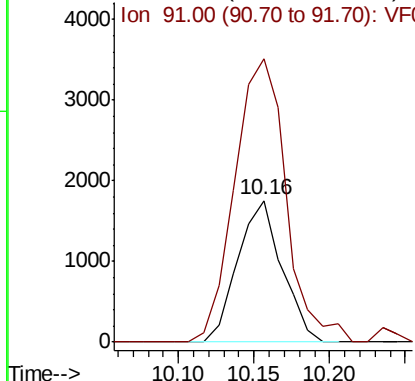
#68
m/p-Xvlenes
Concen: 1.174 ug/l
RT: 10.16 min Scan# 966
Delta R.T. 0.03 min
Lab File: VF061144.D
Acq: 22 Dec 2018 15:02

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:106 Resp: 3582
Ion Ratio Lower Upper
106 100
91 199.8 168.2 252.2

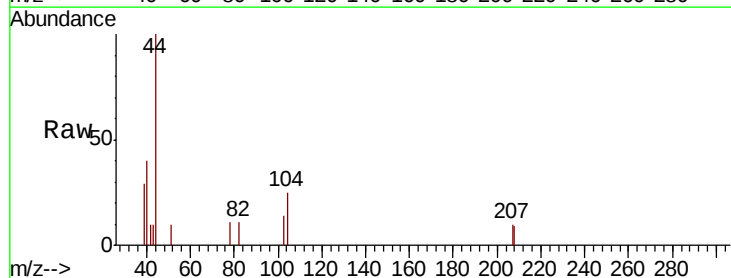


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

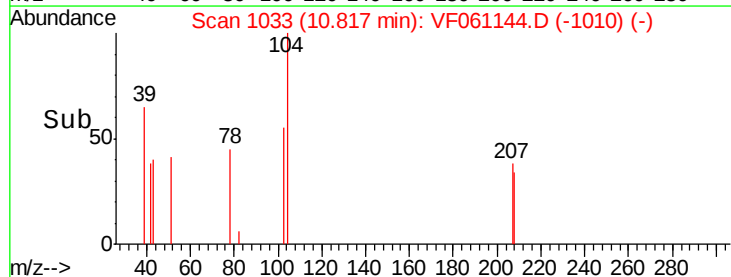
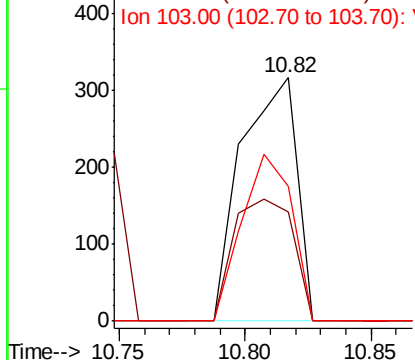


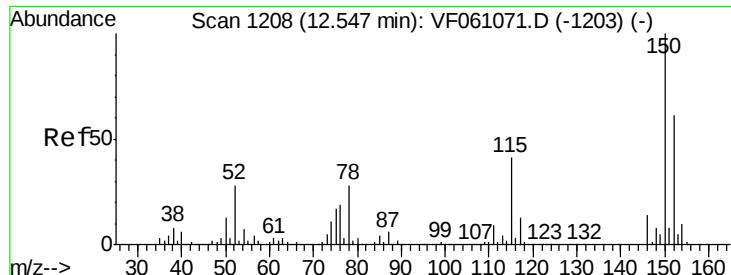
#70
Styrene
Concen: Below Cal
RT: 10.82 min Scan# 1033
Delta R.T. 0.03 min
Lab File: VF061144.D
Acq: 22 Dec 2018 15:02

Tgt Ion:104 Resp: 485
Ion Ratio Lower Upper
104 100
78 44.8 38.4 57.6
103 55.2 37.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

Instrument :

MSVOA_F

ClientSampleId :

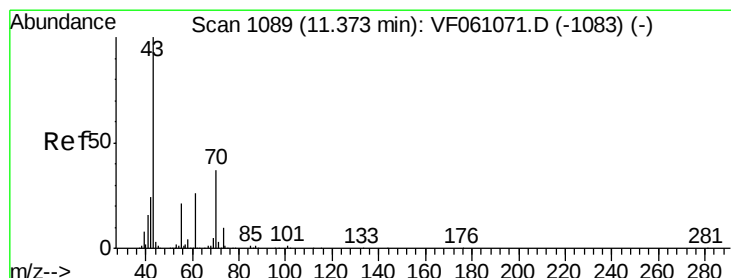
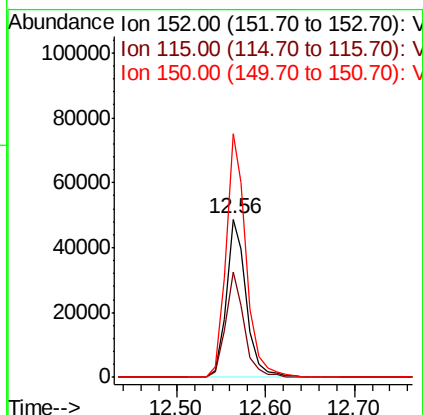
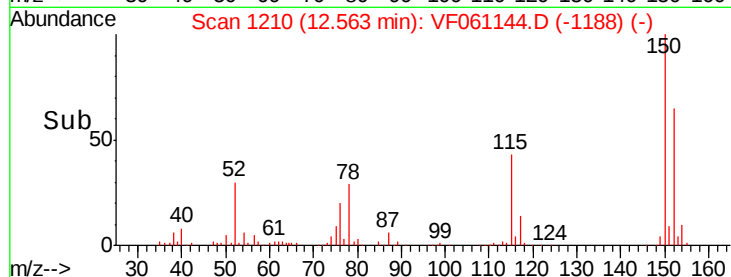
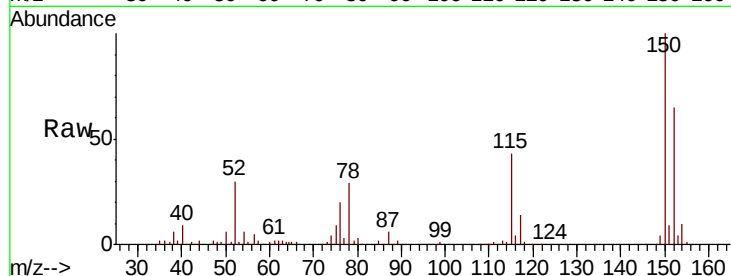
Tot Ion:152 Resp: 77402

Ion Ratio Lower Upper

152 100

115 66.8 33.3 99.9

150 154.2 0.0 328.2



#74

N-amil acetate

Concen: 1.625 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

Tgt Ion: 43 Resp: 2406

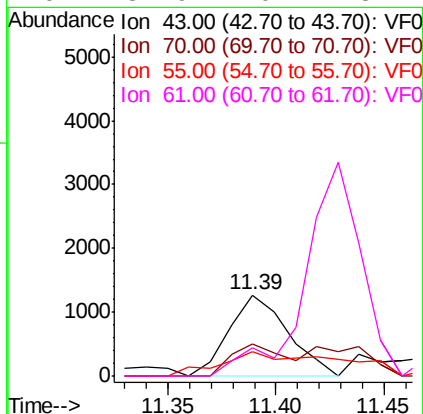
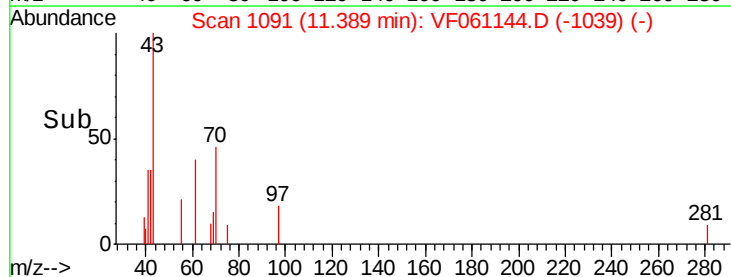
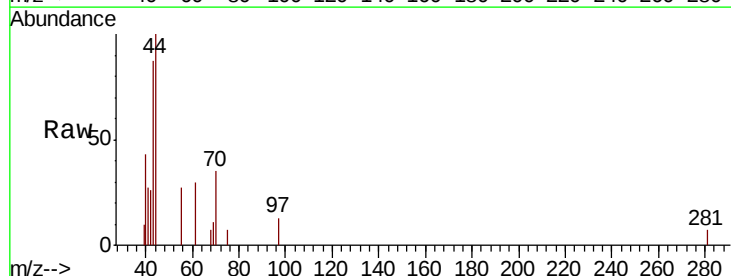
Ion Ratio Lower Upper

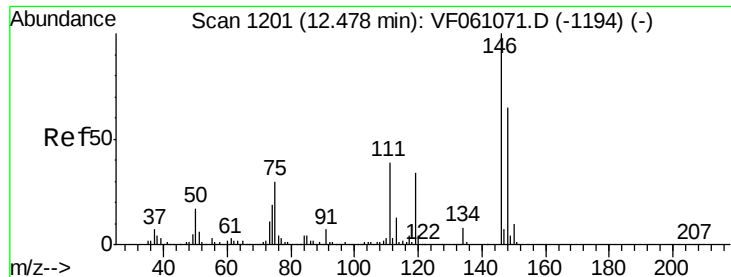
43 100

70 39.9 29.2 43.8

55 30.8 16.5 24.7#

61 34.9 20.7 31.1#





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.58 min Scan# 1212

Delta R.T. 0.10 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

Instrument :

MSVOA_F

ClientSampled :

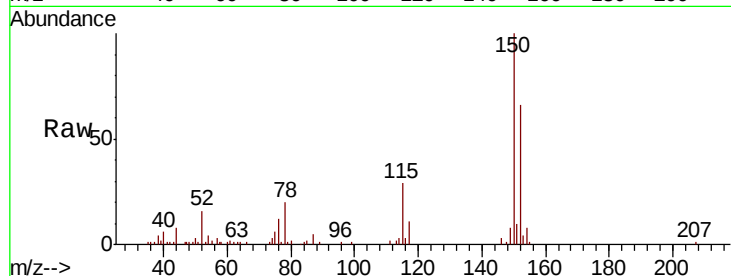
Tot Ion:146 Resp: 975

Ion Ratio Lower Upper

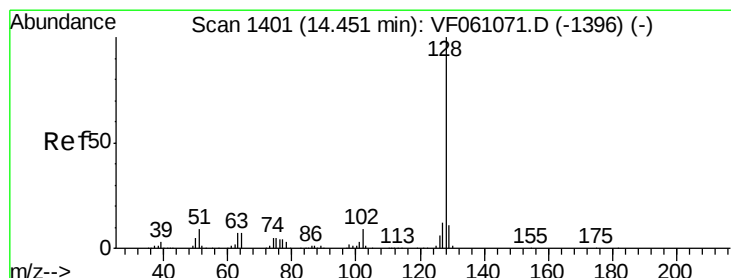
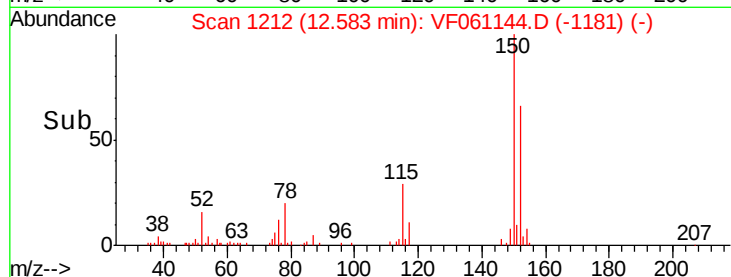
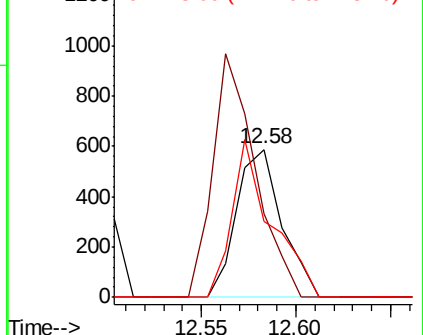
146 100

111 56.1 19.3 57.9

148 51.0 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: 1.805 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.02 min

Lab File: VF061144.D

Acq: 22 Dec 2018 15:02

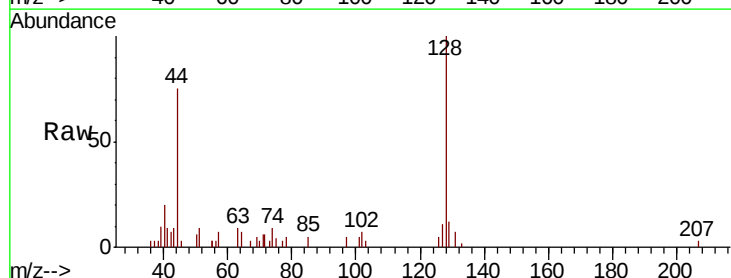
Tgt Ion:128 Resp: 6001

Ion Ratio Lower Upper

128 100

127 10.9 9.4 14.2

129 11.7 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

