

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\
 Data File : VF061970.D
 Acq On : 15 Mar 2019 19:34
 Operator : VA/AP
 Sample : K1928-01RE
 Misc : 5.23g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-MW-7(1.5-2)RE

Quant Time: Mar 15 23:19:19 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	4.89	168	214337	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.62	114	329689	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	277957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	143216	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	82957	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
35) Dibromofluoromethane	4.14	113	24967	10.85	ug/l	0.02
Spiked Amount			Recovery	=	21.70%	
50) Toluene-d8	7.57	98	299213	43.75	ug/l	0.00
Spiked Amount			Recovery	=	87.50%	
62) 4-Bromofluorobenzene	11.42	95	122674	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	

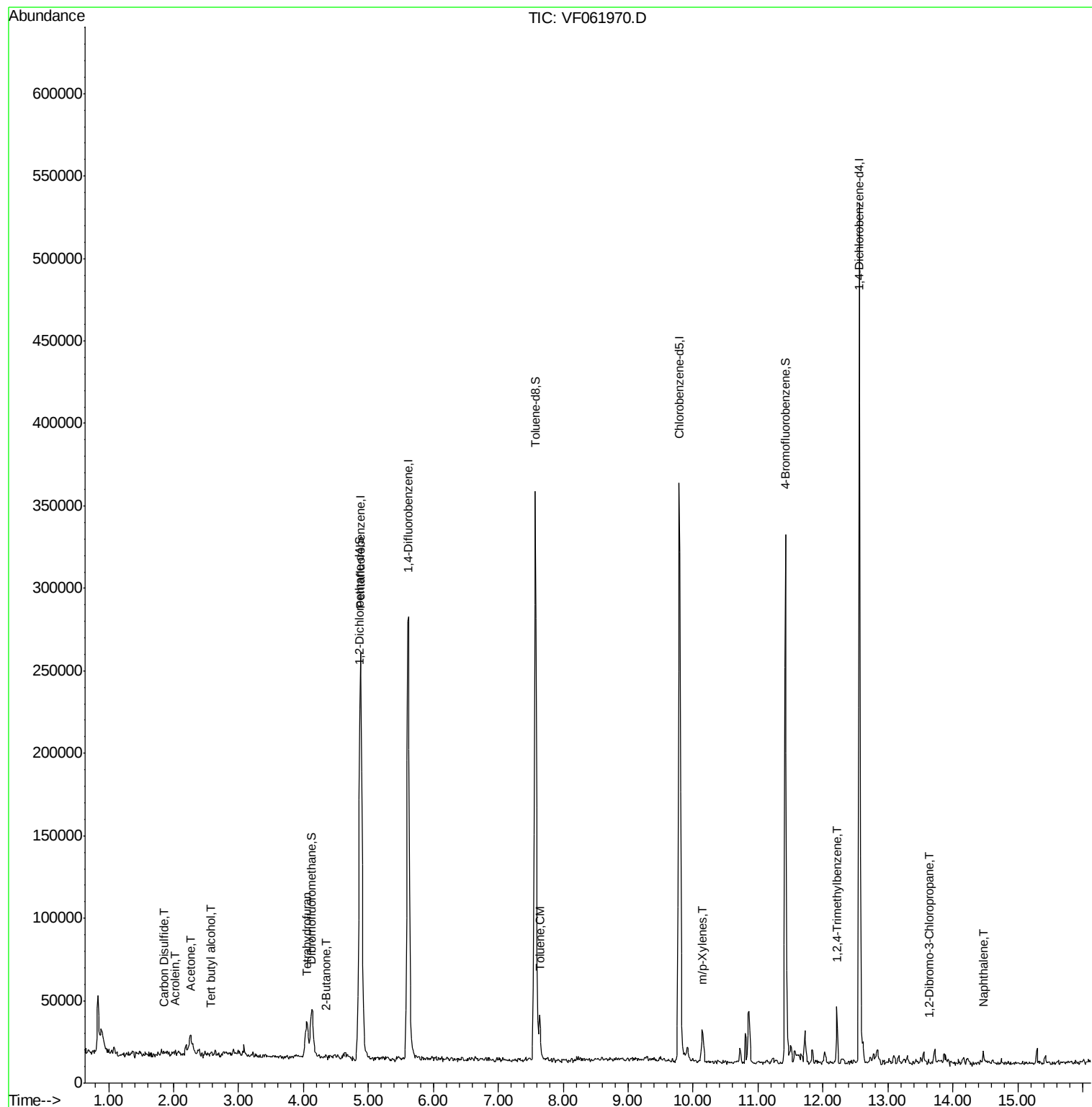
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.59	59	545	6.152	ug/l #	1
13) Acrolein	2.02	56	366	3.260	ug/l #	60
16) Acetone	2.25	43	4481	13.705	ug/l #	73
17) Carbon Disulfide	1.85	76	8466	1.484	ug/l	98
18) Methyl Acetate	2.33	43	505	Below Cal	#	62
20) Methylene Chloride	2.27	84	7508	Below Cal		94
25) 2-Butanone	4.35	43	1249	1.878	ug/l #	56
29) Tetrahydrofuran	4.06	42	554	1.931	ug/l #	52
52) Toluene	7.64	92	11718	2.433	ug/l #	75
68) m/p-Xylenes	10.14	106	7089	2.091	ug/l #	73
84) 1,2,4-Trimethylbenzene	12.21	105	17011	2.192	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	80	4.027	ug/l #	1
95) Naphthalene	14.46	128	5764	1.081	ug/l #	94

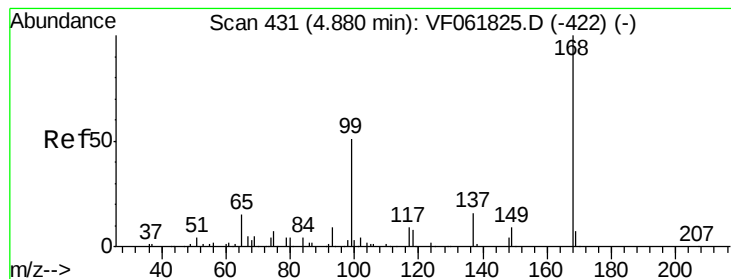
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

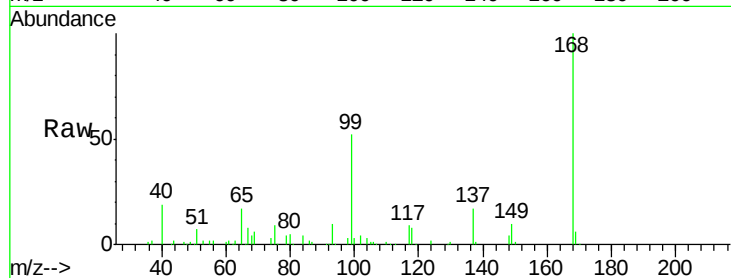
Instrument :
MSVOA_F
ClientSampleId :
SB-MW-7(1.5-2)RE

Tot Ion:168 Resp: 214337

Ion Ratio Lower Upper

168 100

99 52.5 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

80000

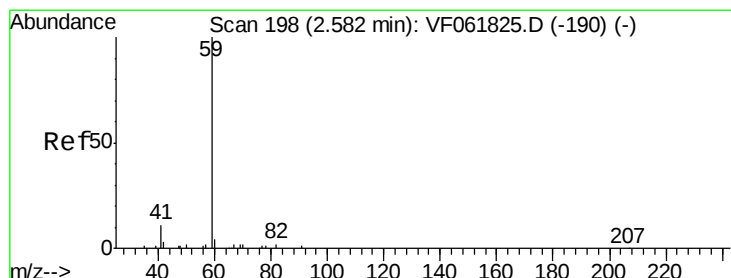
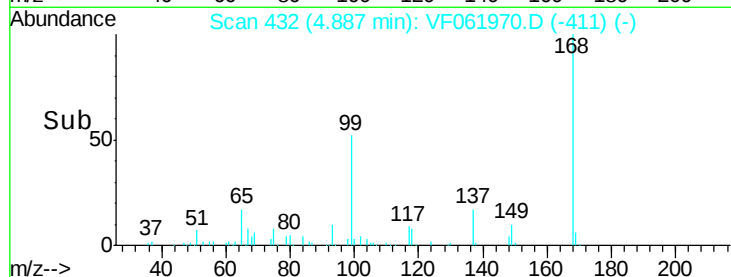
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 6.152 ug/l

RT: 2.59 min Scan# 199

Delta R.T. 0.01 min

Lab File: VF061970.D

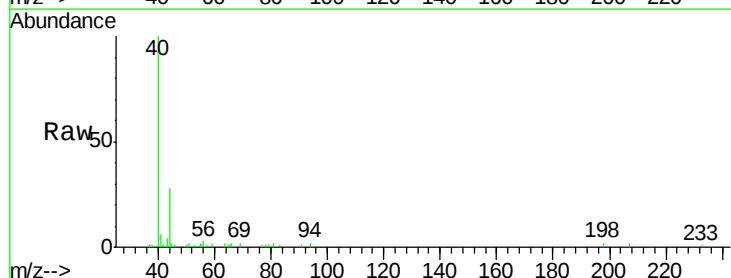
Acq: 15 Mar 2019 19:34

Tgt Ion: 59 Resp: 545

Ion Ratio Lower Upper

59 100

57 65.5 11.8 17.6#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

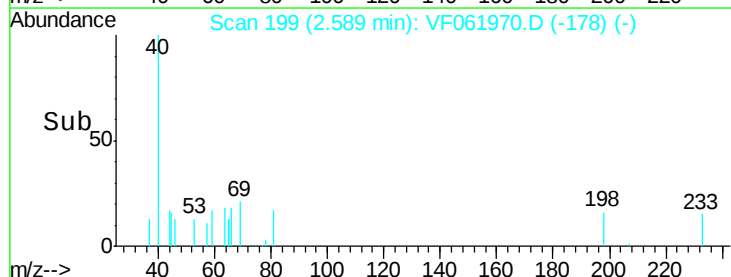
150

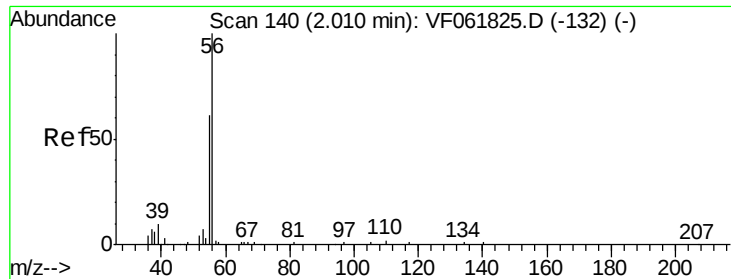
100

50

0

Time--> 2.50 2.55 2.60 2.65





#13

Acrolein

Concen: 3.260 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.01 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

Instrument :

MSVOA_F

ClientSampleId :

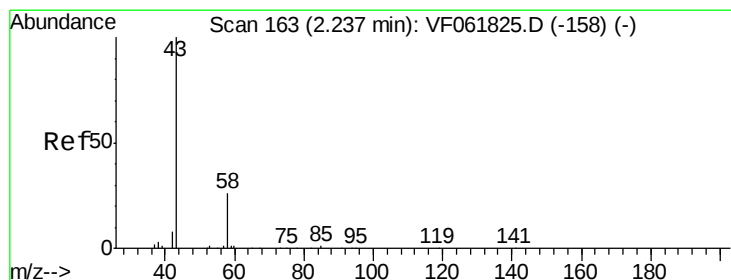
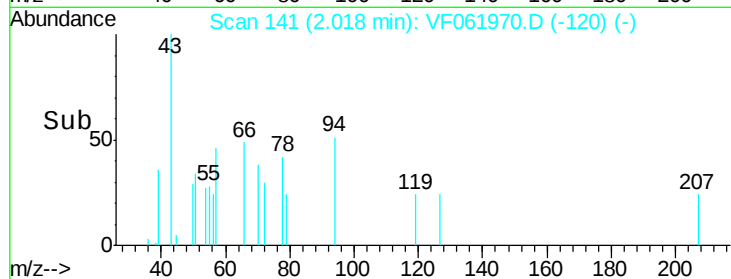
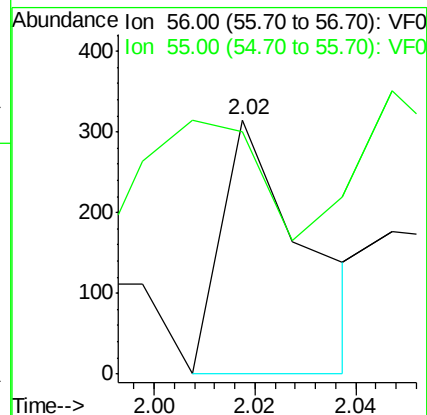
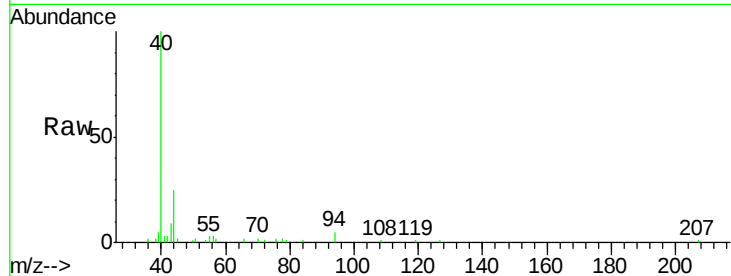
SB-MW-7(1.5-2)RE

Tot Ion: 56 Resp: 366

Ion Ratio Lower Upper

56 100

55 95.2 51.3 76.9#



#16

Acetone

Concen: 13.705 ug/l

RT: 2.25 min Scan# 165

Delta R.T. 0.02 min

Lab File: VF061970.D

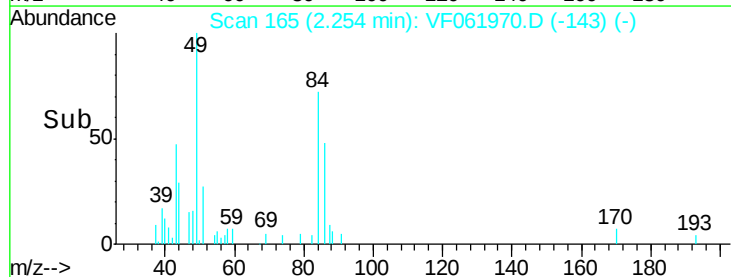
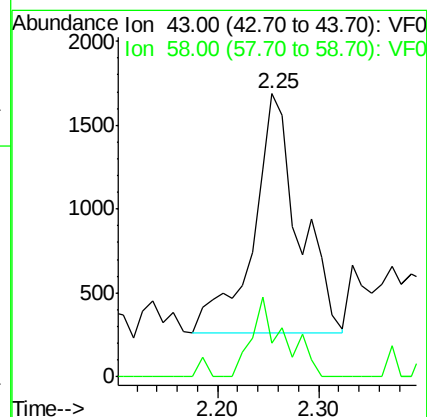
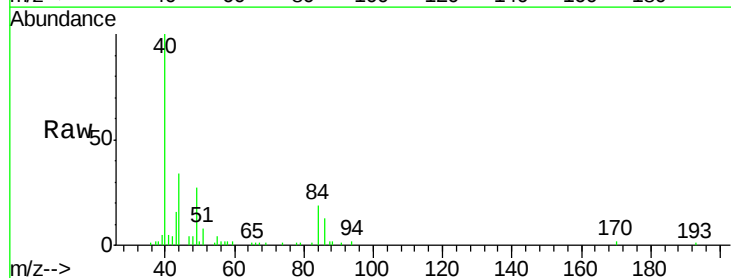
Acq: 15 Mar 2019 19:34

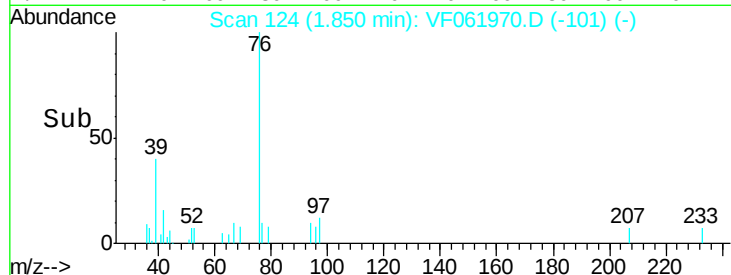
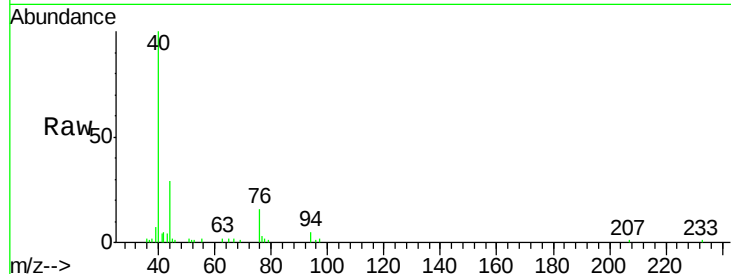
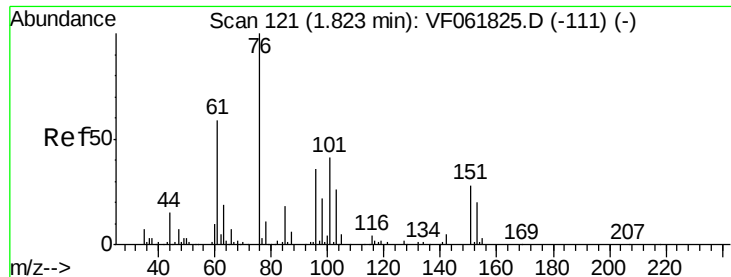
Tgt Ion: 43 Resp: 4481

Ion Ratio Lower Upper

43 100

58 12.0 20.3 30.5#

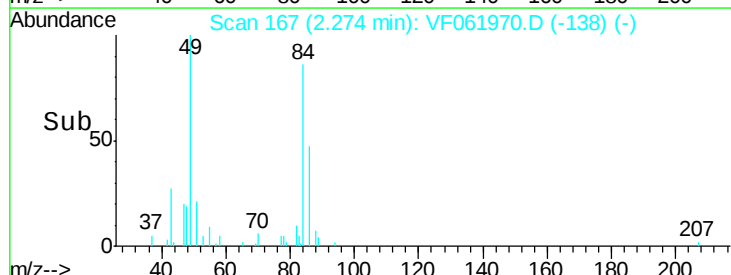
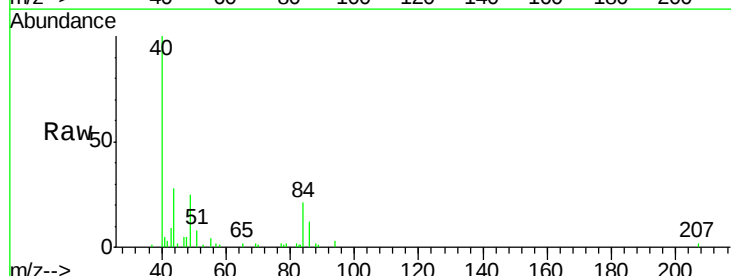
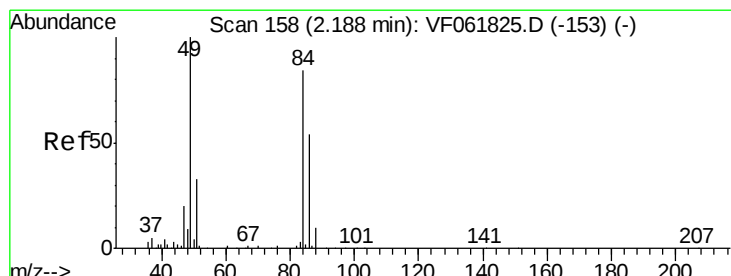
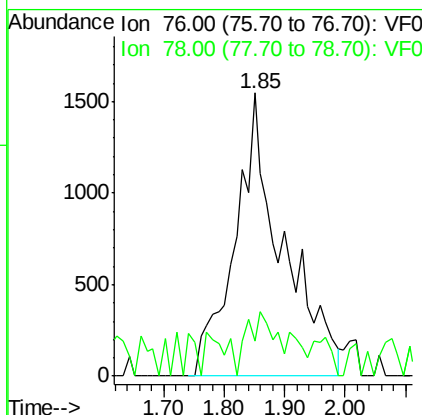




#17
Carbon Disulfide
Concen: 1.484 ug/l
RT: 1.85 min Scan# 124
Delta R.T. 0.03 min
Lab File: VF061970.D
Acq: 15 Mar 2019 19:34

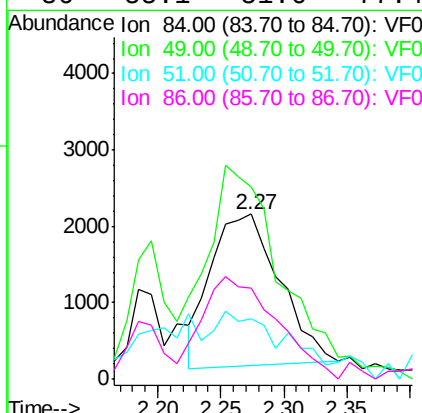
Instrument :
MSVOA_F
ClientSampleId :
SB-MW-7(1.5-2)RE

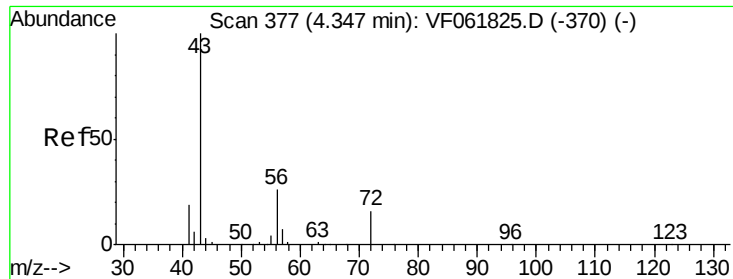
Tot Ion: 76 Resp: 8466
Ion Ratio Lower Upper
76 100
78 12.3 9.1 13.7



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 167
Delta R.T. 0.09 min
Lab File: VF061970.D
Acq: 15 Mar 2019 19:34

Tgt Ion: 84 Resp: 7508
Ion Ratio Lower Upper
84 100
49 116.9 96.8 145.2
51 36.7 31.8 47.6
86 55.1 51.6 77.4





#25

2-Butanone

Concen: 1.878 ug/l

RT: 4.35 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

Instrument :

MSVOA_F

ClientSampleId :

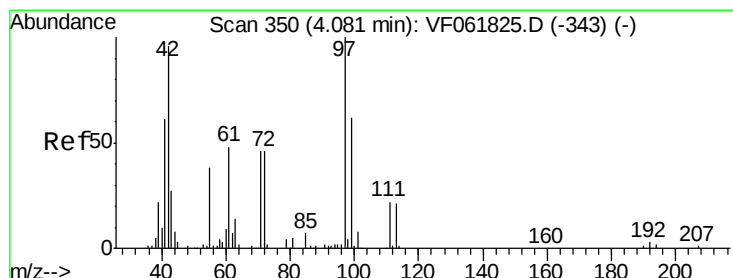
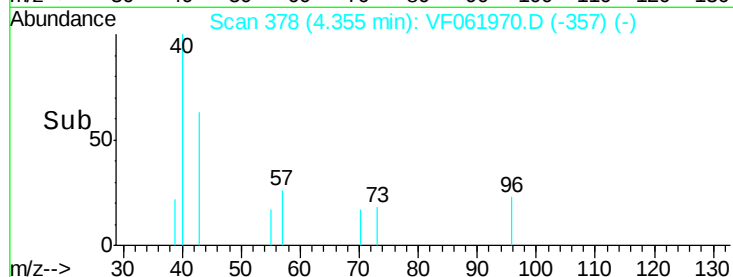
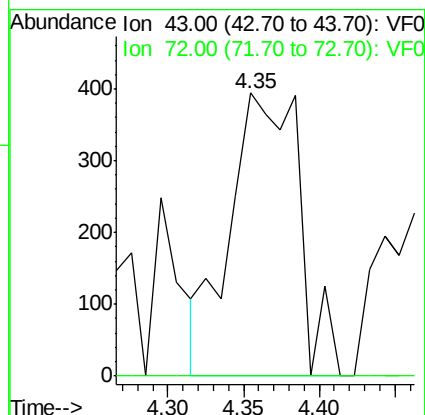
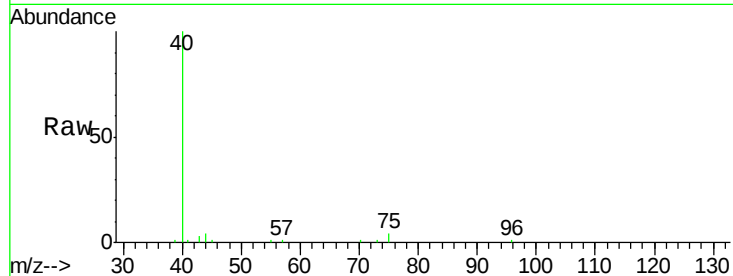
SB-MW-7(1.5-2)RE

Tot Ion: 43 Resp: 1249

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#



#29

Tetrahydrofuran

Concen: 1.931 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.02 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

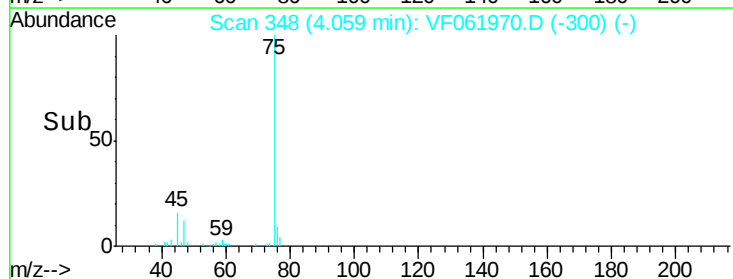
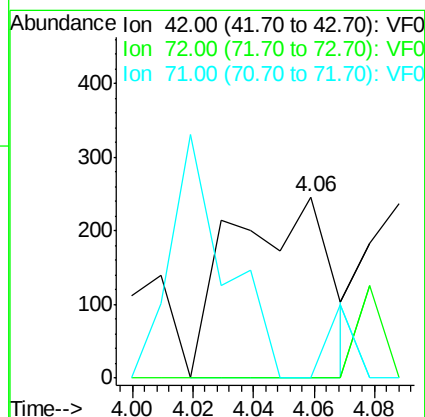
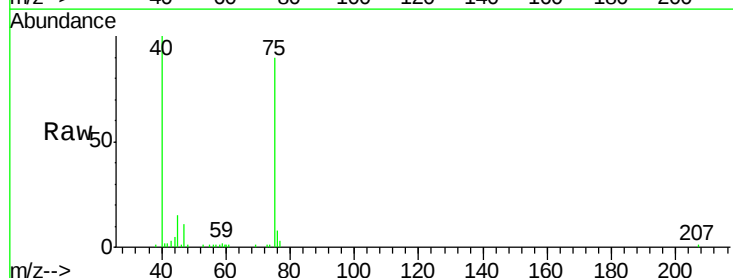
Tgt Ion: 42 Resp: 554

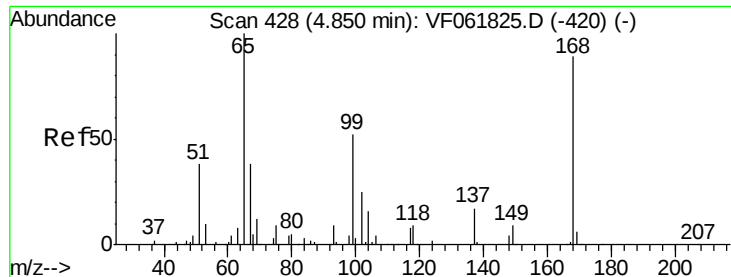
Ion Ratio Lower Upper

42 100

72 13.5 34.4 51.6#

71 10.6 34.6 52.0#





#33

1,2-Dichloroethane-d4

Concen: 53.147 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

Instrument :

MSVOA_F

ClientSampleId :

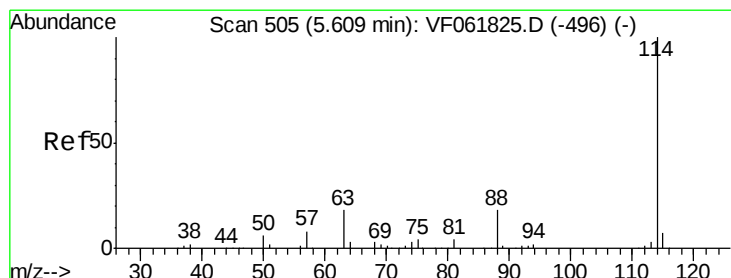
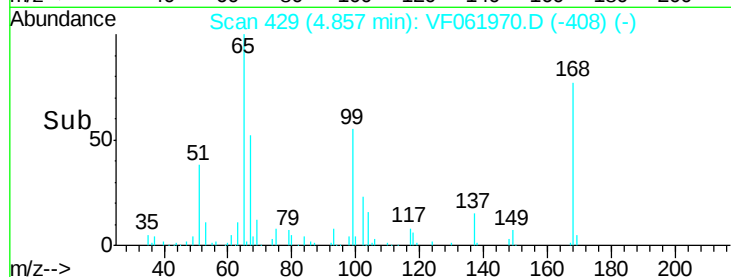
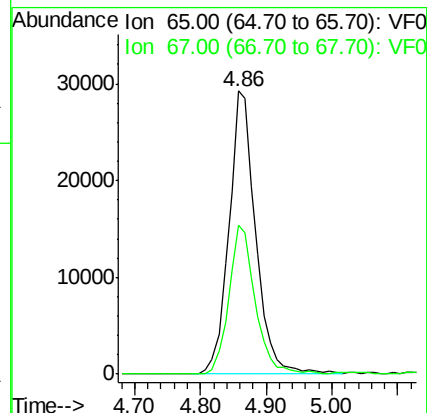
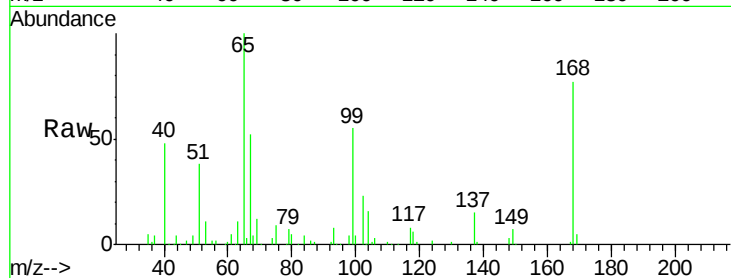
SB-MW-7(1.5-2)RE

Tot Ion: 65 Resp: 82957

Ion Ratio Lower Upper

65 100

67 52.5 0.0 108.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. 0.01 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

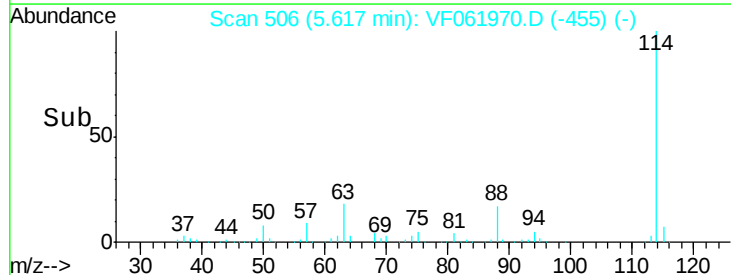
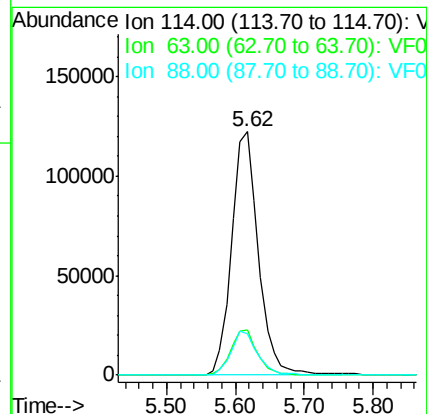
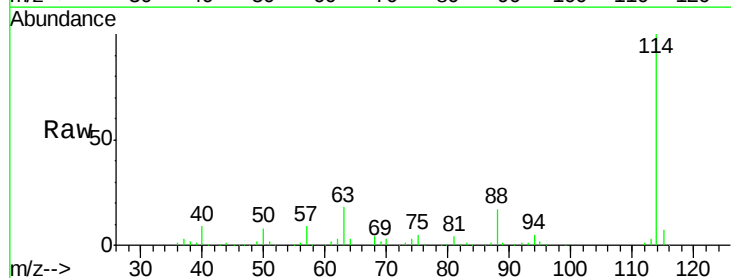
Tgt Ion:114 Resp: 329689

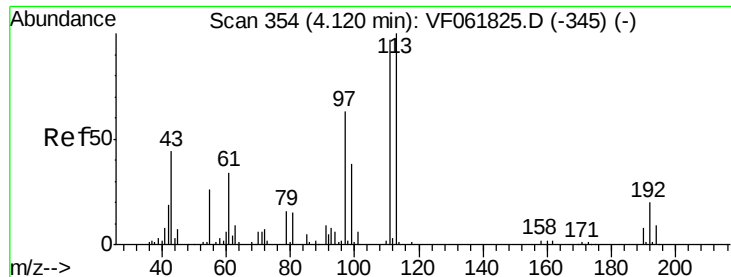
Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.6

88 17.1 0.0 35.6





#35

Dibromofluoromethane

Concen: 10.851 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.02 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

Instrument :

MSVOA_F

ClientSampleId :

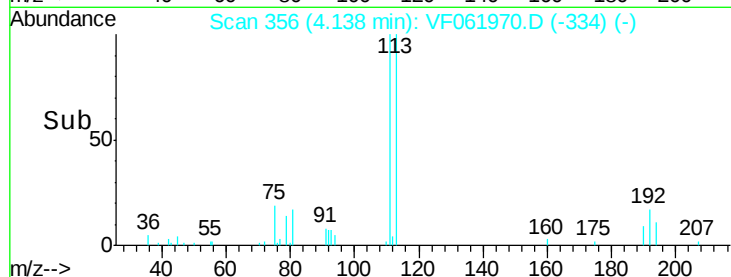
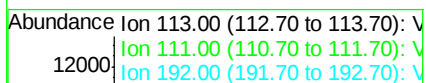
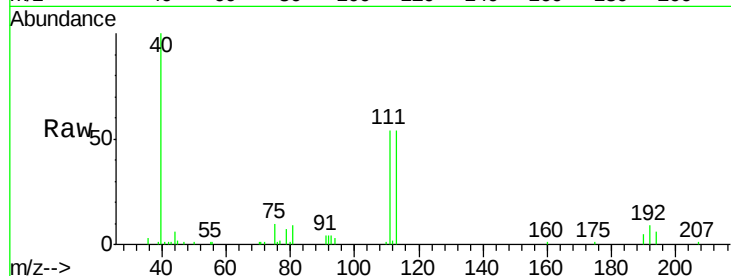
SB-MW-7(1.5-2)RE

Tot Ion:113 Resp: 24967

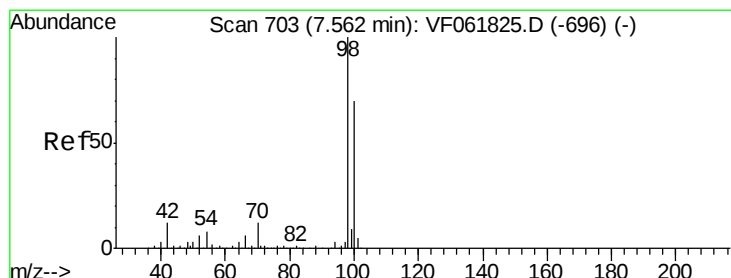
Ion	Ratio	Lower	Upper
113	100		
111	100.3	77.6	116.4
192	16.6	15.9	23.9

111 100.3 77.6 116.4

192 16.6 15.9 23.9



Time-->



#50

Toluene-d8

Concen: 43.753 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.01 min

Lab File: VF061970.D

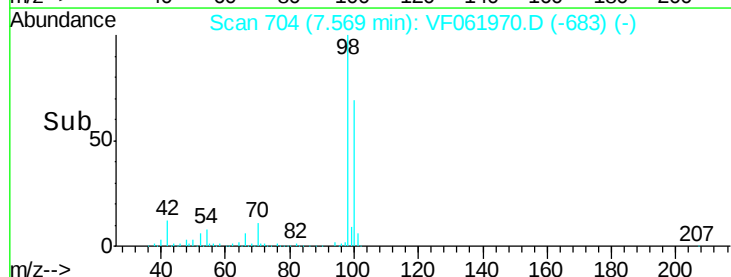
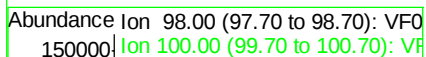
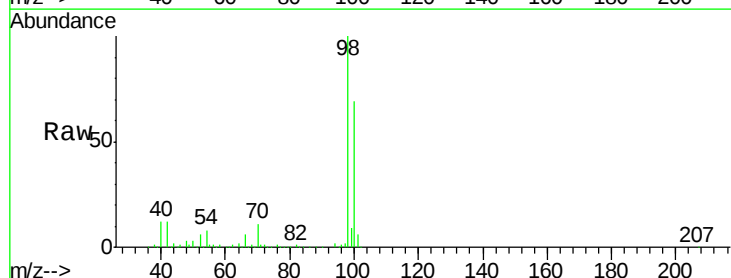
Acq: 15 Mar 2019 19:34

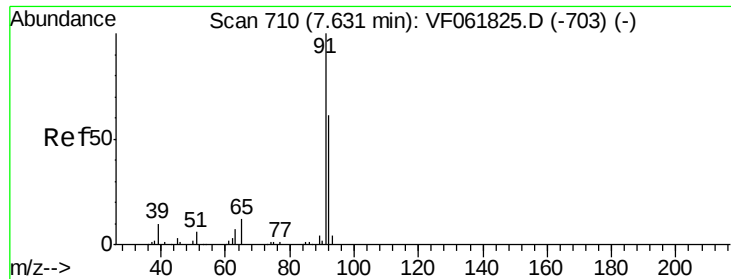
Tgt Ion: 98 Resp: 299213

Ion	Ratio	Lower	Upper
98	100		
100	69.3	56.0	84.0

98 100

100 69.3 56.0 84.0





#52

Toluene

Concen: 2.433 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

Instrument :

MSVOA_F

ClientSampleId :

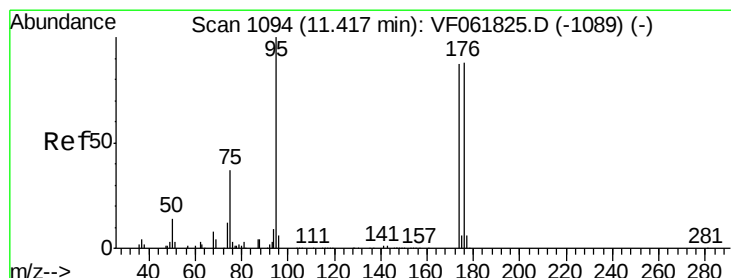
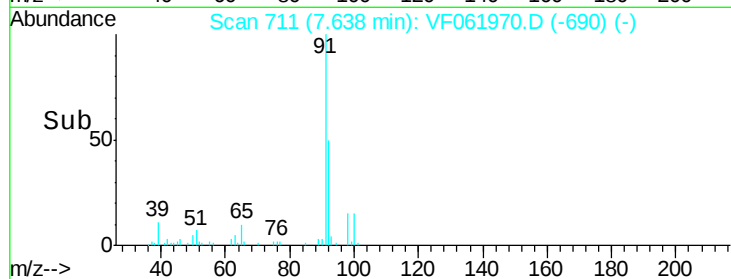
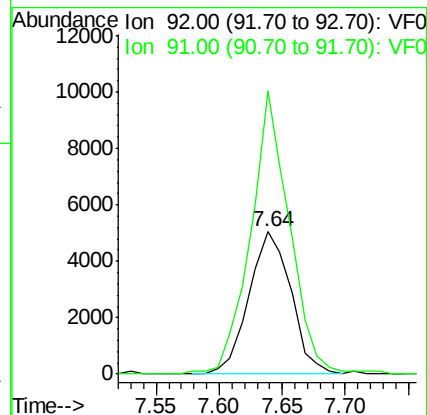
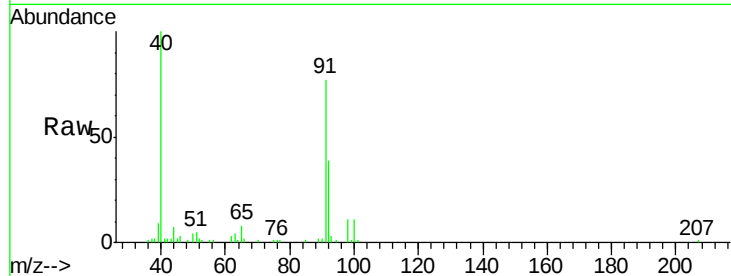
SB-MW-7(1.5-2)RE

Tot Ion: 92 Resp: 11718

Ion Ratio Lower Upper

92 100

91 199.1 132.0 198.0#



#62

4-Bromofluorobenzene

Concen: 45.793 ug/l

RT: 11.42 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

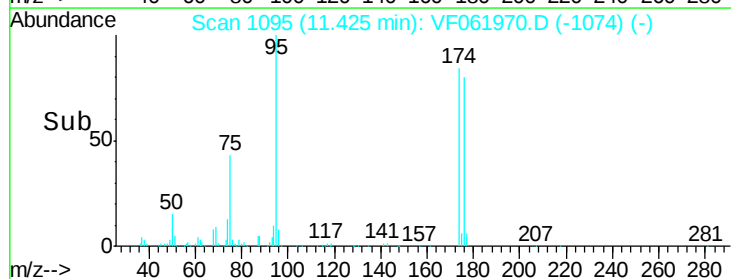
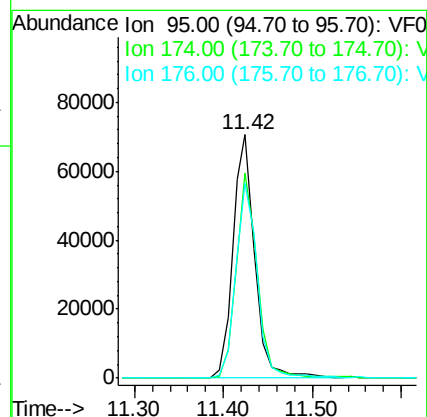
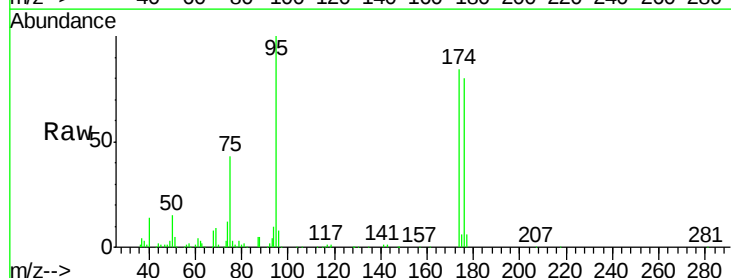
Tgt Ion: 95 Resp: 122674

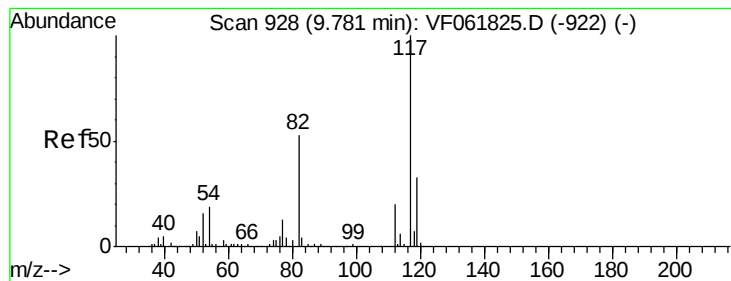
Ion Ratio Lower Upper

95 100

174 84.2 0.0 174.0

176 80.3 0.0 175.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

Instrument :

MSVOA_F

ClientSampleId :

SB-MW-7(1.5-2)RE

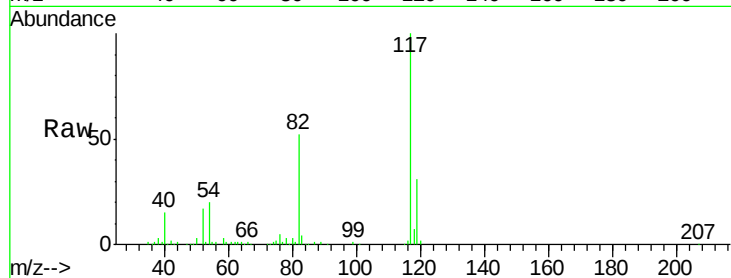
Tot Ion:117 Resp: 277957

Ion Ratio Lower Upper

117 100

82 52.4 42.6 63.8

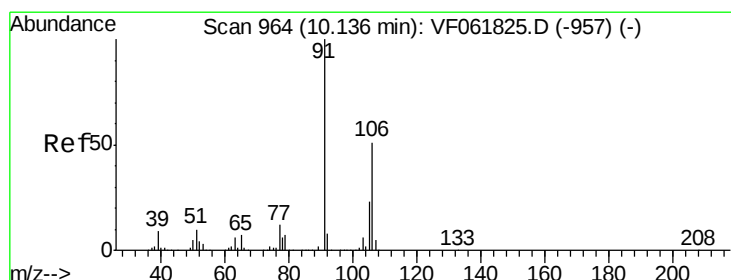
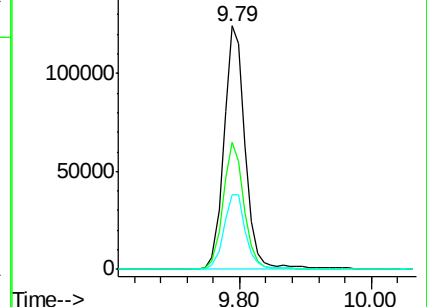
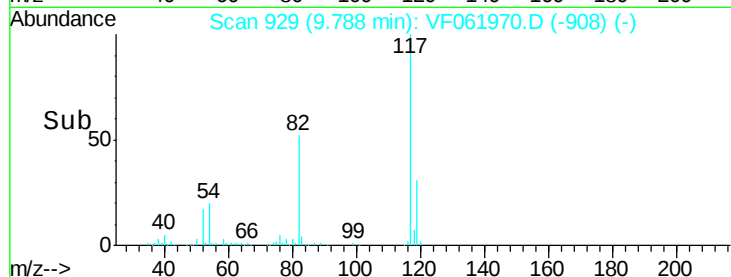
119 30.7 26.0 39.0



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



#68

m/p-Xylenes

Concen: 2.091 ug/l

RT: 10.14 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF061970.D

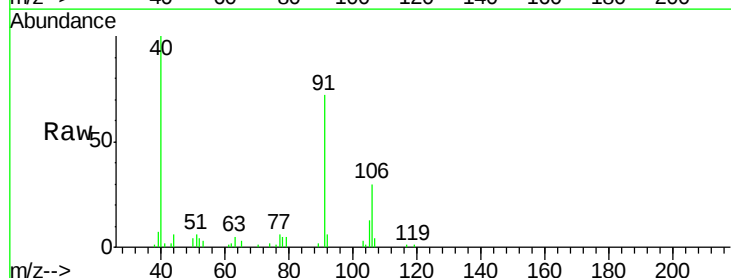
Acq: 15 Mar 2019 19:34

Tgt Ion:106 Resp: 7089

Ion Ratio Lower Upper

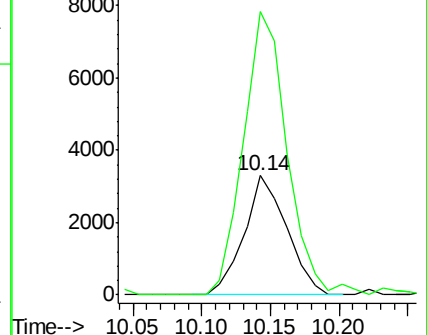
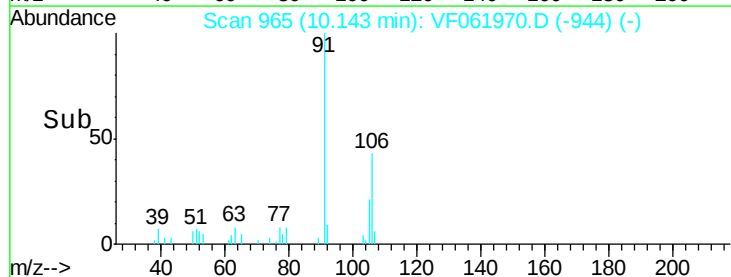
106 100

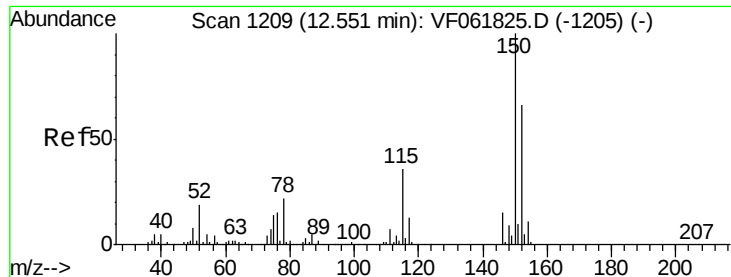
91 237.8 157.5 236.3#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061970.D

Acq: 15 Mar 2019 19:34

Instrument :

MSVOA_F

ClientSampleId :

SB-MW-7(1.5-2)RE

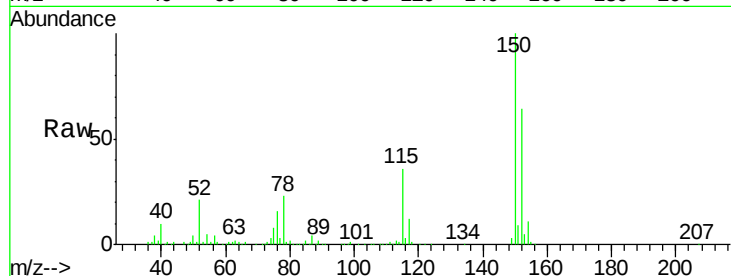
Tot Ion:152 Resp: 143216

Ion Ratio Lower Upper

152 100

115 56.4 27.7 83.1

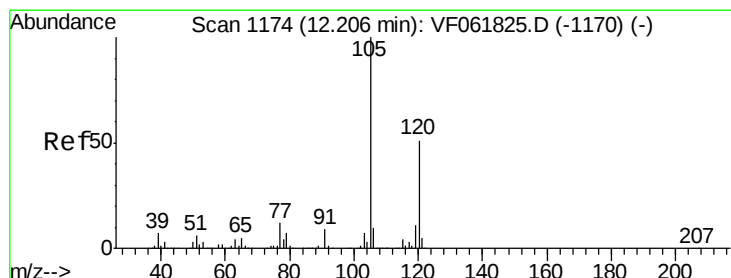
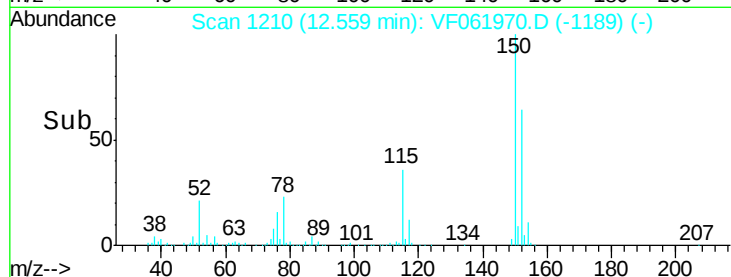
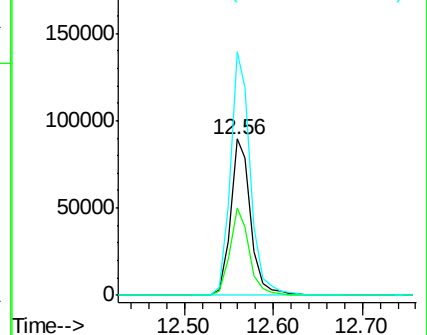
150 156.0 0.0 304.2



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



#84

1,2,4-Trimethylbenzene

Concen: 2.192 ug/l

RT: 12.21 min Scan# 1175

Delta R.T. 0.01 min

Lab File: VF061970.D

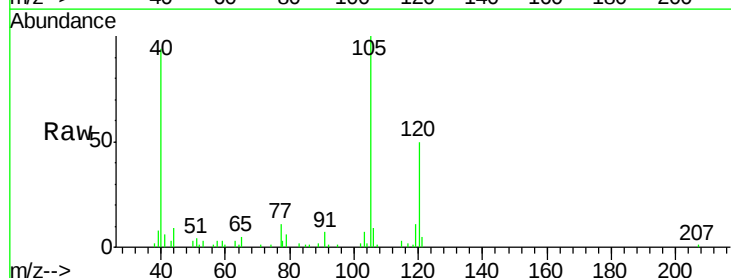
Acq: 15 Mar 2019 19:34

Tgt Ion:105 Resp: 17011

Ion Ratio Lower Upper

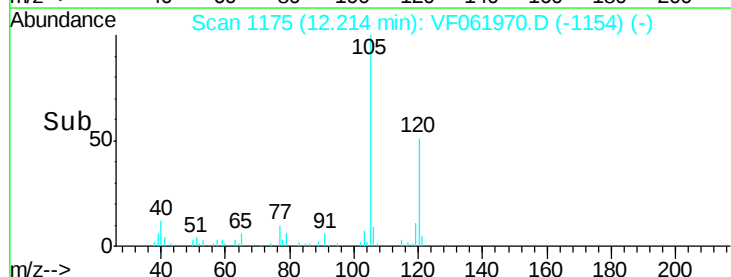
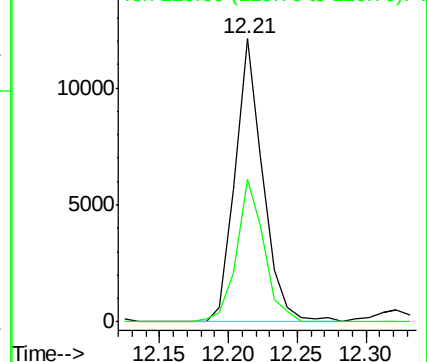
105 100

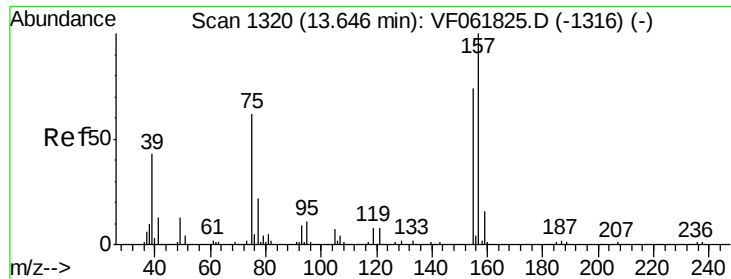
120 50.2 25.8 77.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

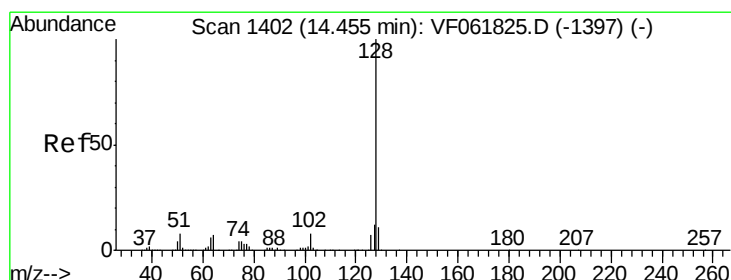
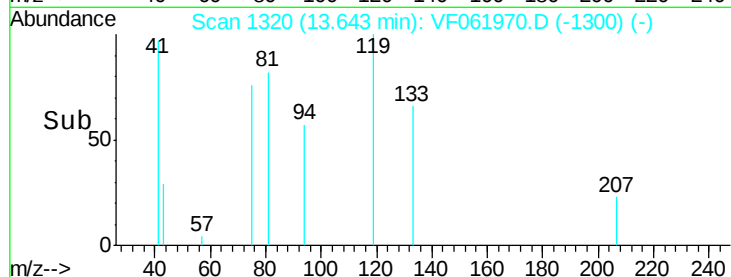
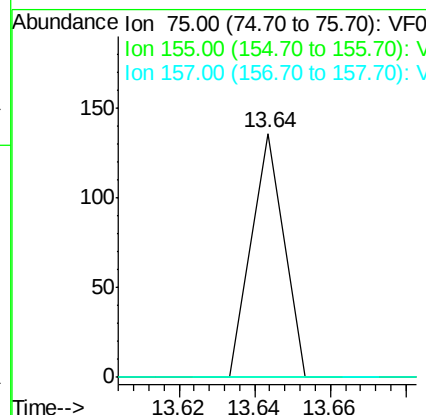
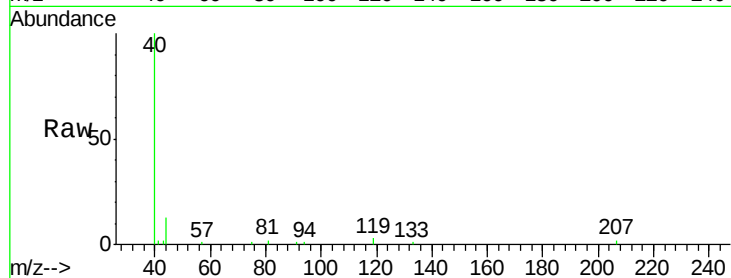




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.027 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061970.D
 Acq: 15 Mar 2019 19:34

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-MW-7(1.5-2)RE

Tot Ion: 75 Resp: 80
 Ion Ratio Lower Upper
 75 100
 155 0.0 59.8 179.4#
 157 0.0 81.2 243.4#



#95
 Naphthalene
 Concen: 1.081 ug/l
 RT: 14.46 min Scan# 1403
 Delta R.T. 0.01 min
 Lab File: VF061970.D
 Acq: 15 Mar 2019 19:34

Tgt Ion:128 Resp: 5764
 Ion Ratio Lower Upper
 128 100
 127 15.4 9.3 13.9#
 129 10.2 8.8 13.2

