

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122118\
 Data File : VF061130.D
 Acq On : 21 Dec 2018 17:12
 Operator : VA/AP
 Sample : J6377-01RE
 Misc : 3.17g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0006-02RE

Quant Time: Dec 21 23:46:40 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

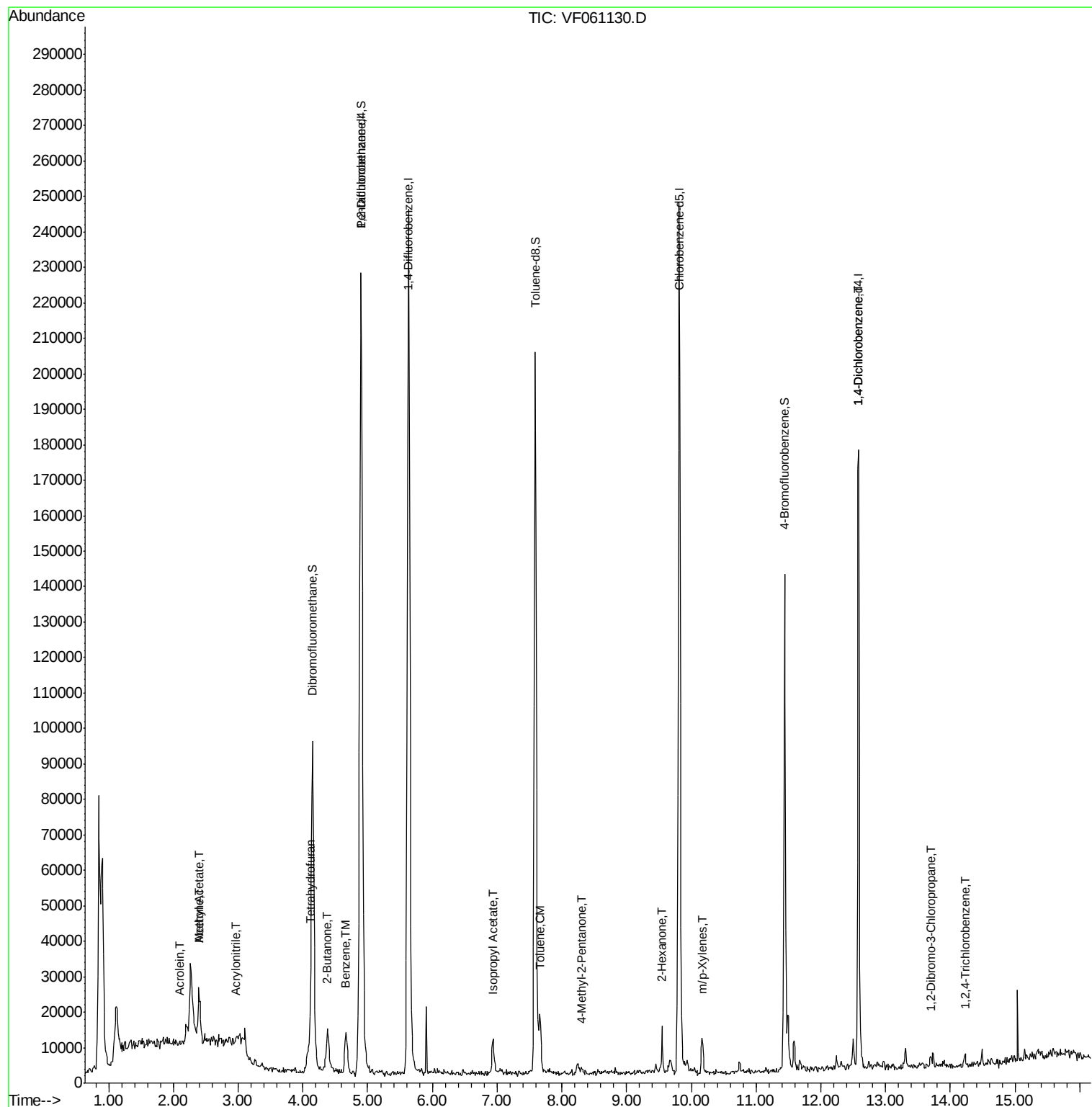
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	158335	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.63	114	275599	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.81	117	170893	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.58	152	44843	50.00	ug/l	0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.89	65	80748	39.65	ug/l	0.04
Spiked Amount 50.000			Recovery	=	79.30%	
35) Dibromofluoromethane	4.15	113	87169	39.48	ug/l	0.03
Spiked Amount 50.000			Recovery	=	78.96%	
50) Toluene-d8	7.59	98	172597	27.59	ug/l	0.03
Spiked Amount 50.000			Recovery	=	55.18%	
62) 4-Bromofluorobenzene	11.44	95	52465	18.19	ug/l	0.02
Spiked Amount 50.000			Recovery	=	36.38%	
Target Compounds						
					Qvalue	
13) Acrolein	2.10	56	521	8.774	ug/l	81
15) Acrylonitrile	2.95	53	563	2.963	ug/l #	31
16) Acetone	2.39	43	3598	8.838	ug/l	98
18) Methyl Acetate	2.39	43	7498	8.902	ug/l #	84
20) Methylene Chloride	2.28	84	5785	Below Cal	#	74
25) 2-Butanone	4.38	43	23986	36.328	ug/l	98
29) Tetrahydrofuran	4.11	42	1117	4.157	ug/l #	37
40) Benzene	4.67	78	15883	2.220	ug/l	92
43) Isopropyl Acetate	6.94	43	16258	10.121	ug/l #	45
51) 4-Methyl-2-Pentanone	8.30	43	2379	2.160	ug/l #	74
52) Toluene	7.65	92	8241	1.740	ug/l	96
59) 2-Hexanone	9.53	43	3029	3.802	ug/l	84
68) m/p-Xylenes	10.17	106	3417	1.510	ug/l	79
70) Styrene	10.83	104	225	Below Cal	#	40
78) n-propylbenzene	11.62	91	536	Below Cal	#	55
87) 1,3-Dichlorobenzene	12.50	146	2800	Below Cal		91
88) 1,4-Dichlorobenzene	12.59	146	7440	4.871	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	13.70	75	201	1.708	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.23	180	1155	1.095	ug/l #	80

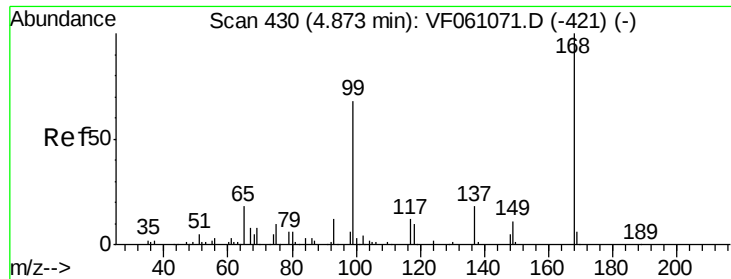
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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. 0.02 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA_F

ClientSampleId :

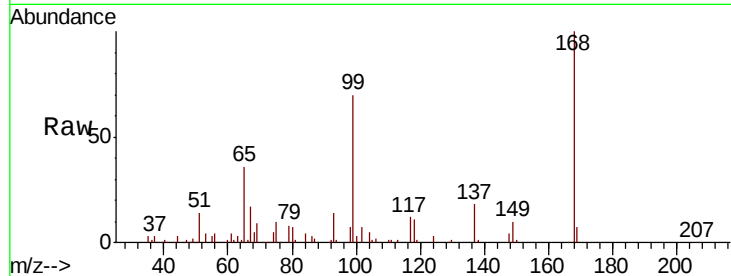
P001-SD006-0006-02RE

Tot Ion:168 Resp: 158335

Ion Ratio Lower Upper

168 100

99 69.7 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

60000

50000

40000

30000

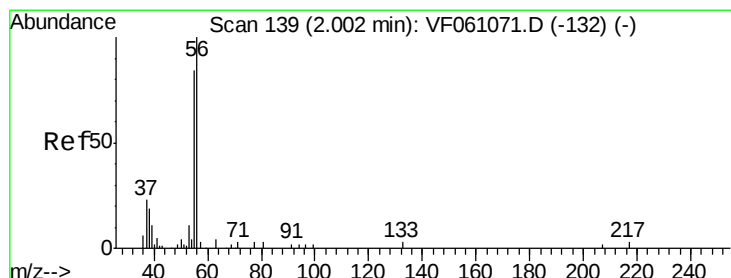
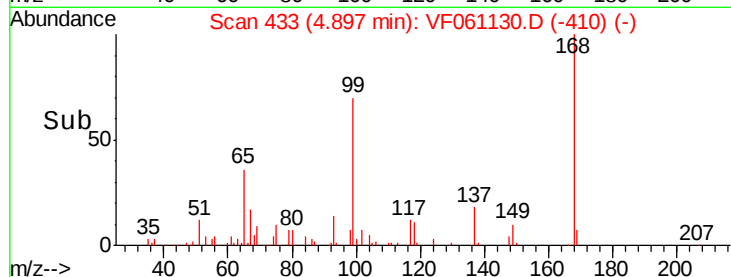
20000

10000

0

Time-->

4.80 4.90 5.00



#13

Acrolein

Concen: 8.774 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.09 min

Lab File: VF061130.D

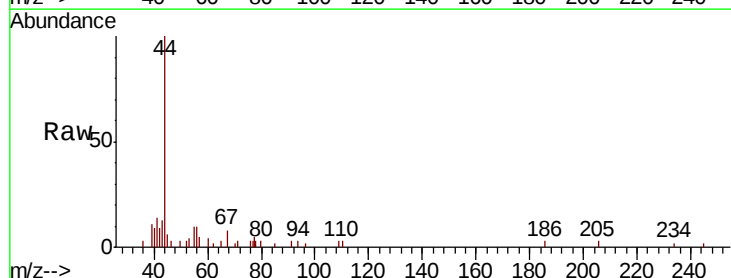
Acq: 21 Dec 2018 17:12

Tgt Ion: 56 Resp: 521

Ion Ratio Lower Upper

56 100

55 105.1 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.10

500

400

300

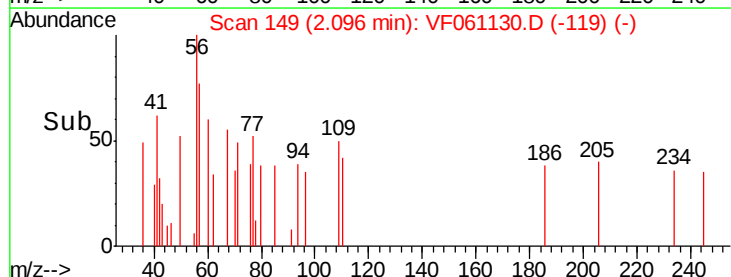
200

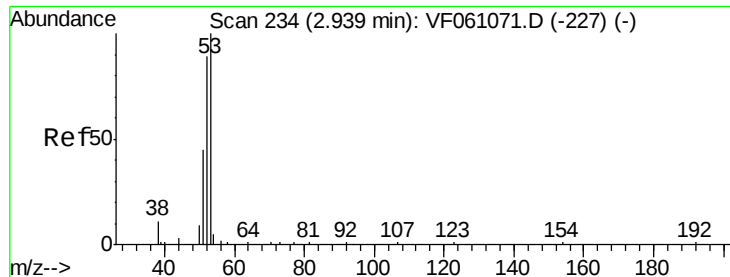
100

0

Time-->

2.05 2.10





#15

Acrylonitrile

Concen: 2.963 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-02RE

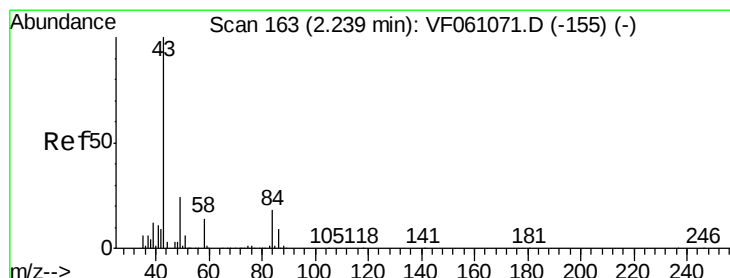
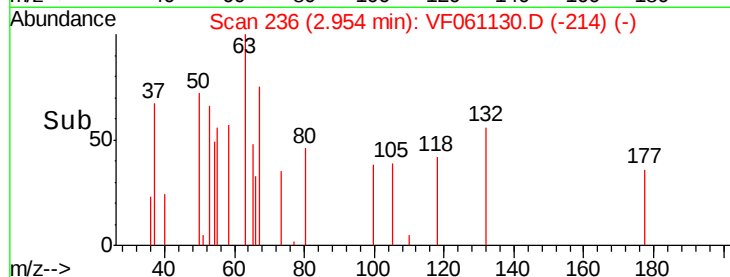
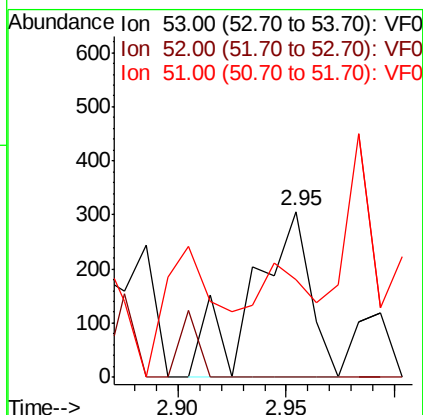
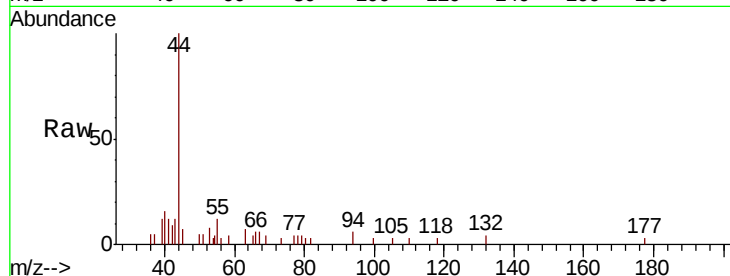
Tot Ion: 53 Resp: 563

Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 58.8 36.8 55.2#



#16

Acetone

Concen: 8.838 ug/l

RT: 2.39 min Scan# 179

Delta R.T. 0.15 min

Lab File: VF061130.D

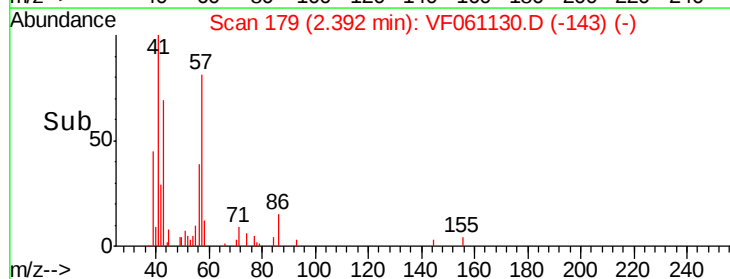
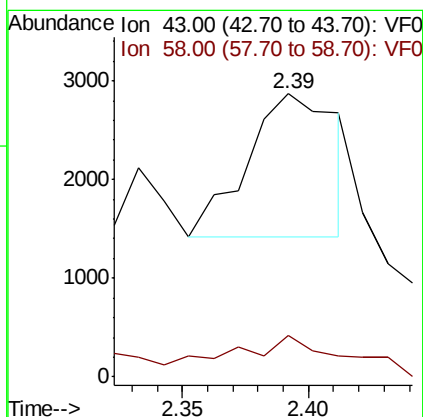
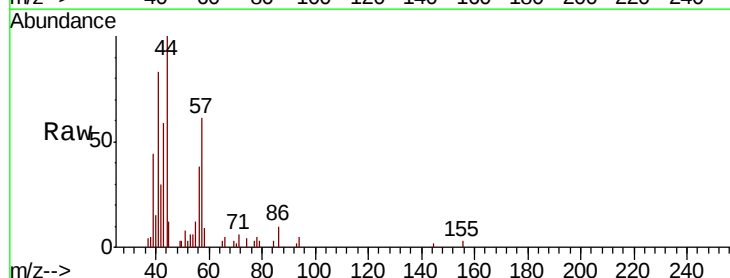
Acq: 21 Dec 2018 17:12

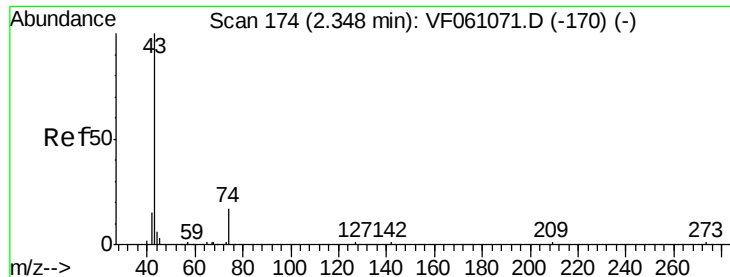
Tgt Ion: 43 Resp: 3598

Ion Ratio Lower Upper

43 100

58 14.6 11.1 16.7

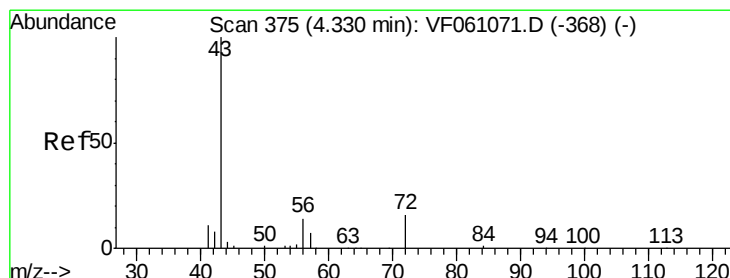
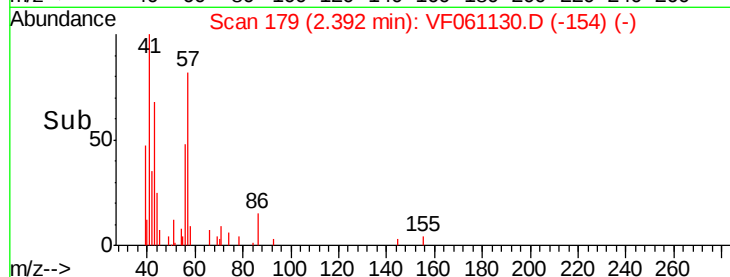
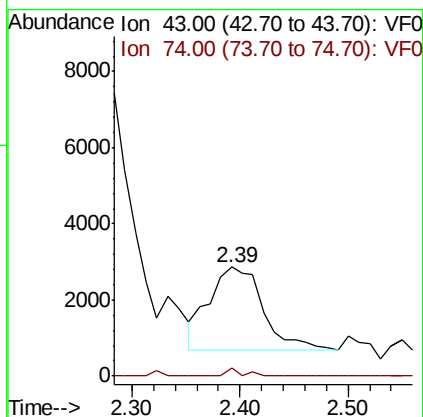
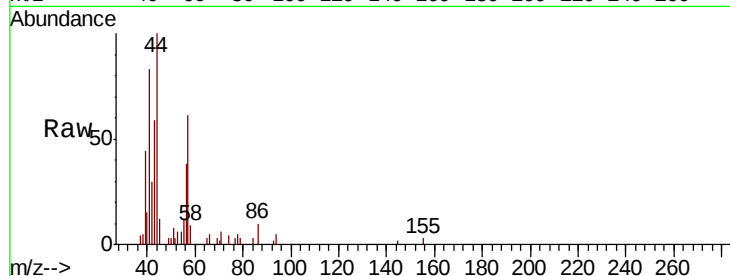




#18
Methvl Acetate
Concen: 8.902 ug/l
RT: 2.39 min Scan# 179
Delta R.T. 0.04 min
Lab File: VF061130.D
Acq: 21 Dec 2018 17:12

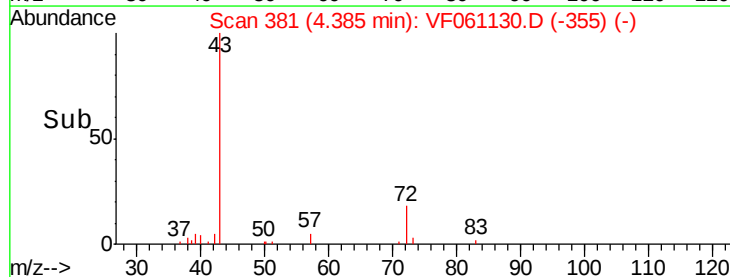
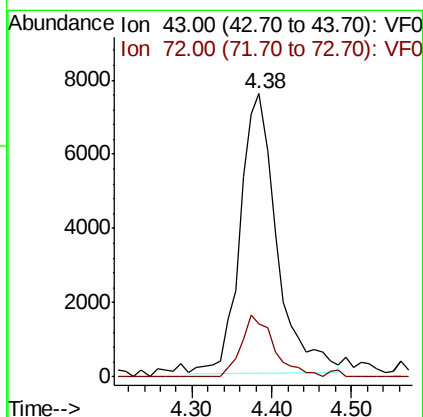
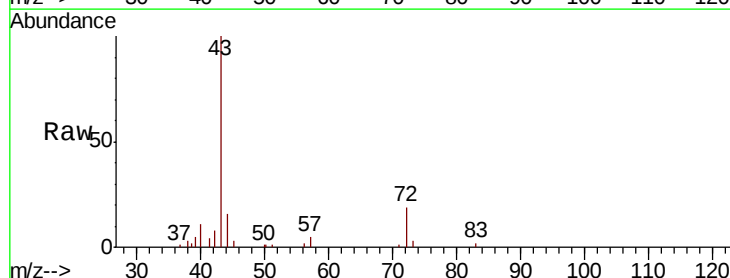
Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0006-02RE

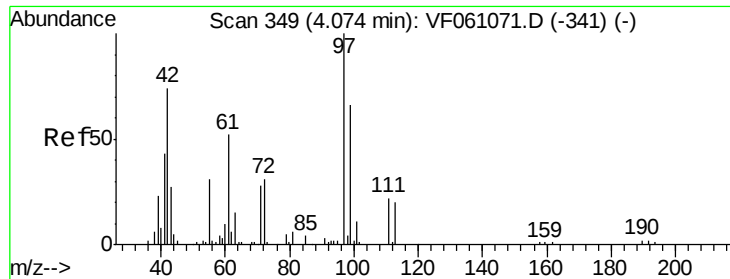
Tot Ion: 43 Resp: 7498
Ion Ratio Lower Upper
43 100
74 7.3 11.0 16.6#



#25
2-Butanone
Concen: 36.328 ug/l
RT: 4.38 min Scan# 381
Delta R.T. 0.05 min
Lab File: VF061130.D
Acq: 21 Dec 2018 17:12

Tgt Ion: 43 Resp: 23986
Ion Ratio Lower Upper
43 100
72 18.6 15.6 23.4





#29

Tetrahydrofuran

Concen: 4.157 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.03 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-02RE

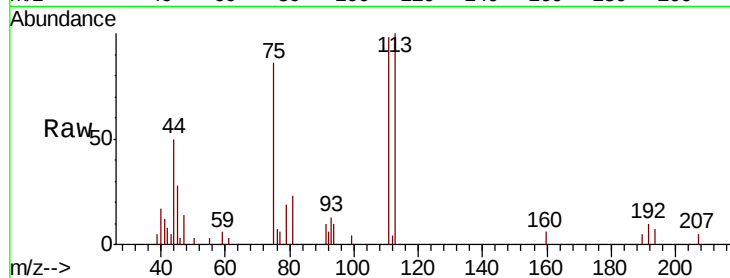
Tot Ion: 42 Resp: 1117

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

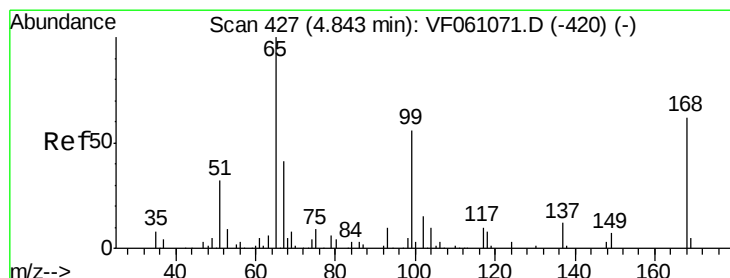
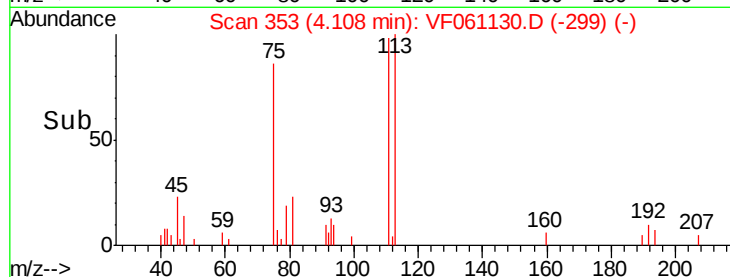
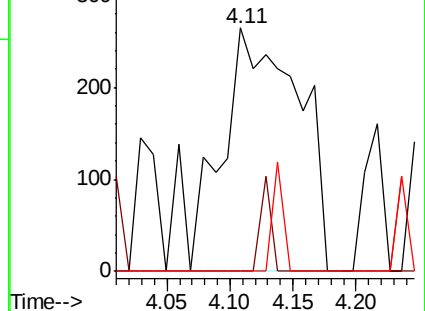
71 0.0 29.7 44.5#



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: 39.651 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.04 min

Lab File: VF061130.D

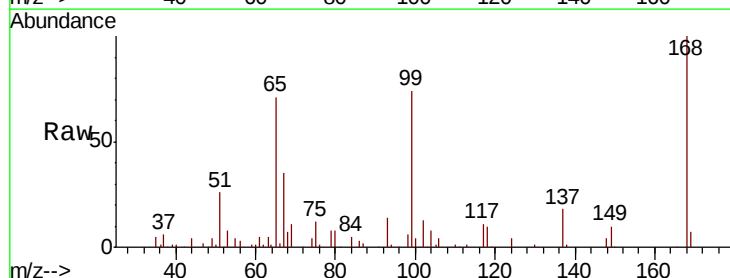
Acq: 21 Dec 2018 17:12

Tgt Ion: 65 Resp: 80748

Ion Ratio Lower Upper

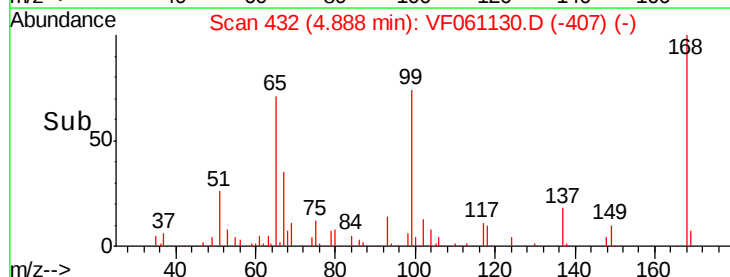
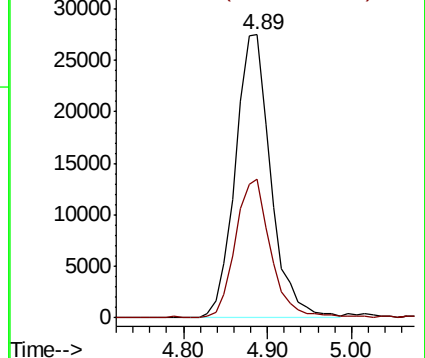
65 100

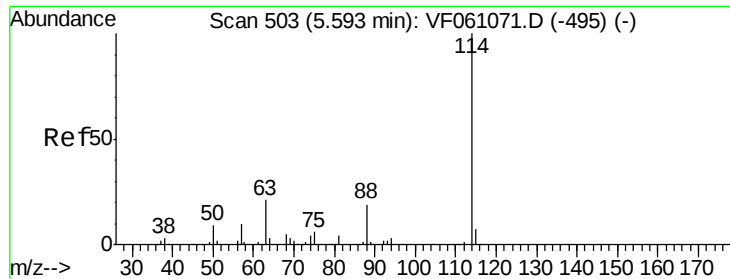
67 49.1 0.0 94.6



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: 5.63 min Scan# 507

Delta R.T. 0.03 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-02RE

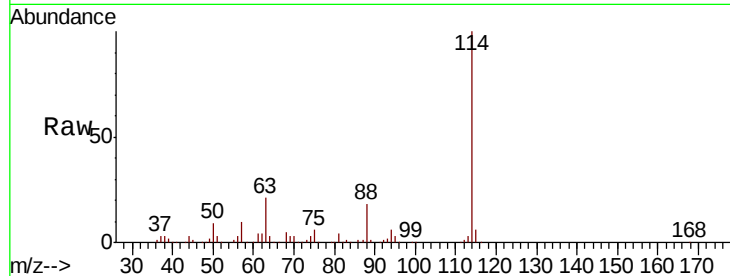
Tot Ion:114 Resp: 275599

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.6

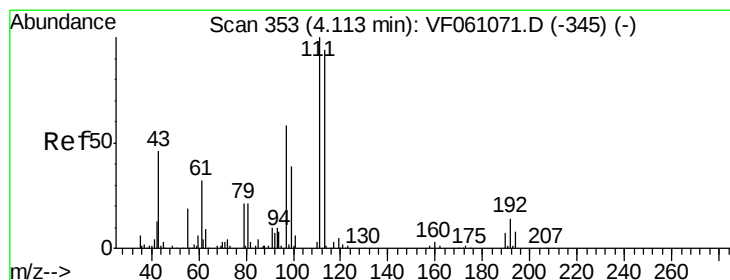
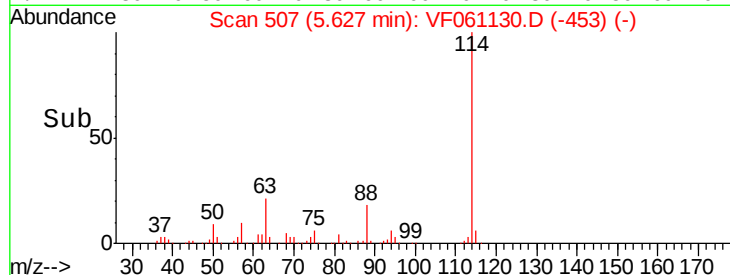
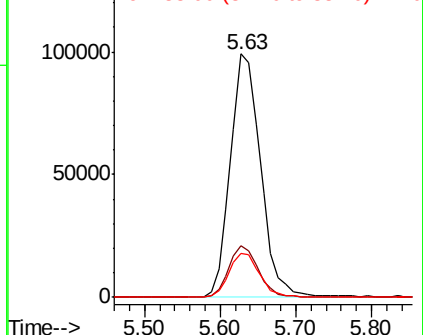
88 17.8 0.0 38.0



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: 39.484 ug/l

RT: 4.15 min Scan# 357

Delta R.T. 0.03 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

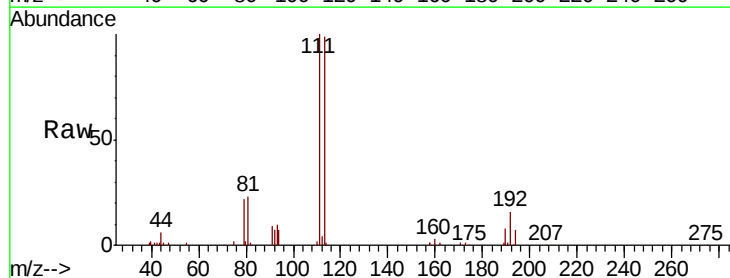
Tgt Ion:113 Resp: 87169

Ion Ratio Lower Upper

113 100

111 100.5 85.2 127.8

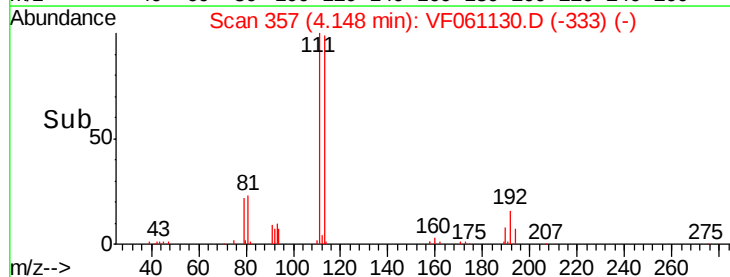
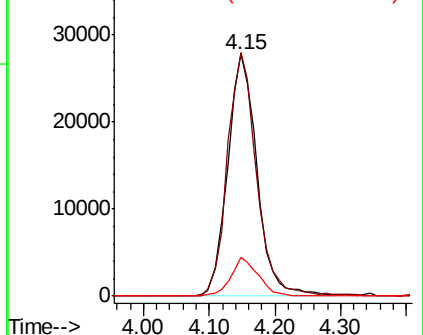
192 15.9 12.8 19.2

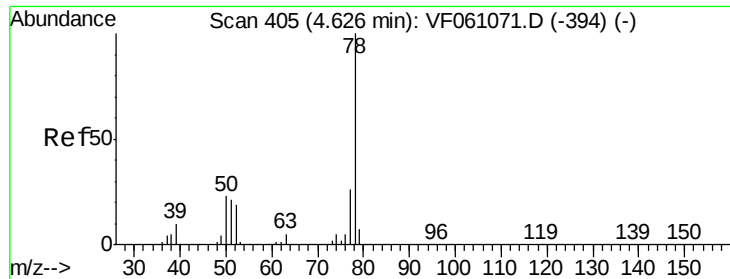


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#40

Benzene

Concen: 2.220 ug/l

RT: 4.67 min Scan# 410

Delta R.T. 0.04 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

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ClientSampleId :

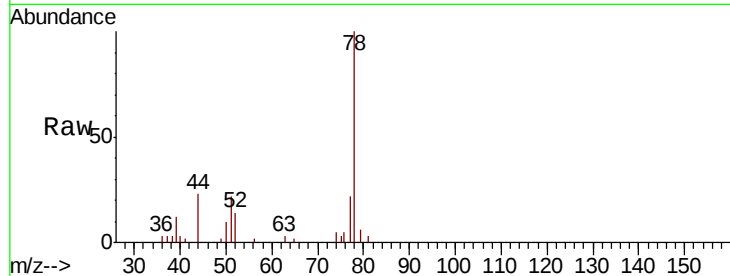
P001-SD006-0006-02RE

Tot Ion: 78 Resp: 15883

Ion Ratio Lower Upper

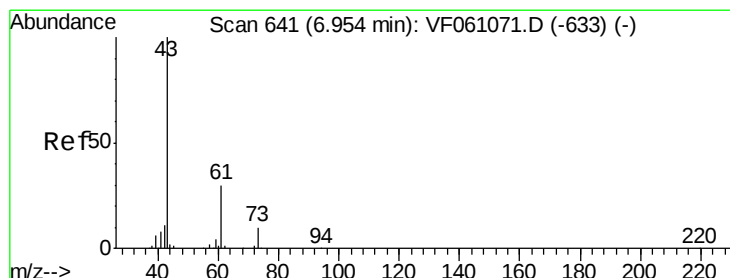
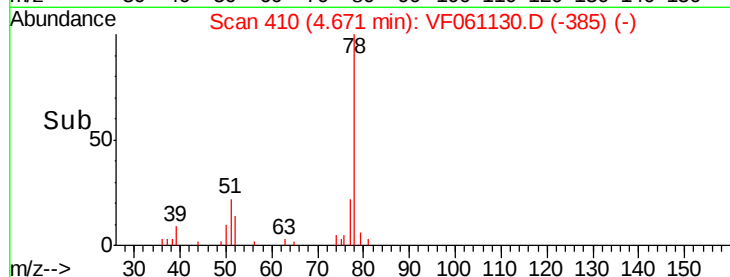
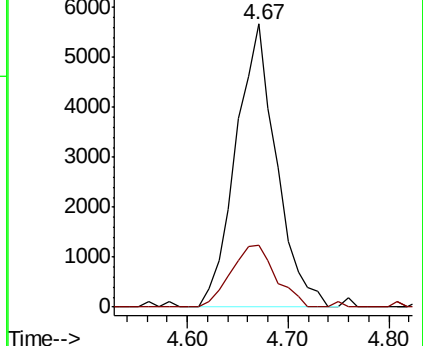
78 100

77 21.8 20.7 31.1



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#43

Isopropyl Acetate

Concen: 10.121 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.01 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

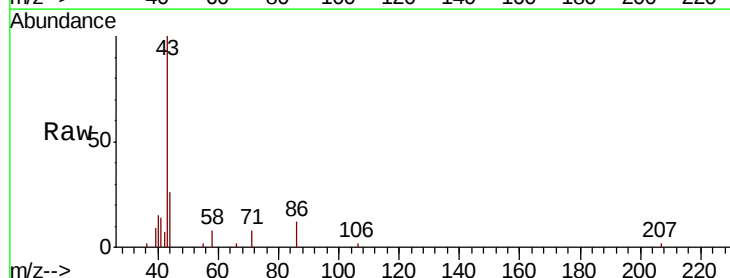
Tgt Ion: 43 Resp: 16258

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.8#

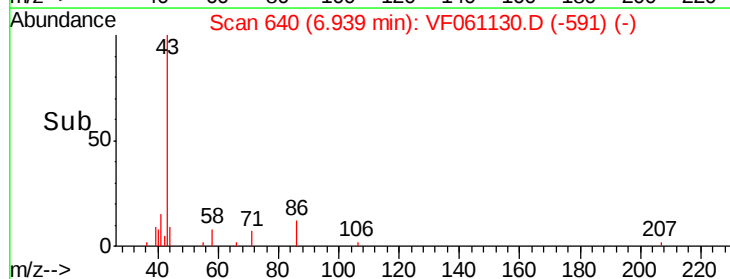
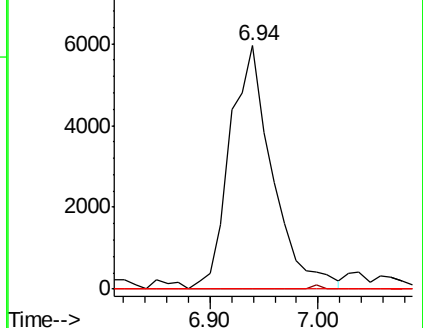
87 0.0 0.0 0.0

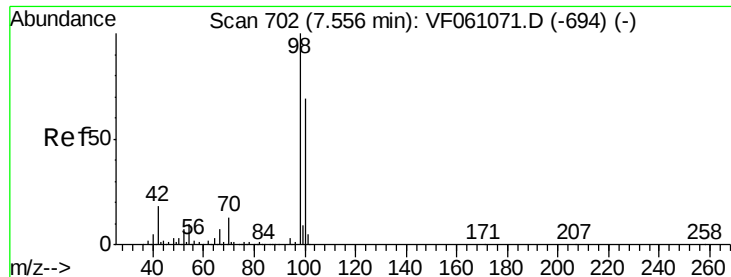


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#50

Toluene-d8

Concen: 27.587 ug/l

RT: 7.59 min Scan# 706

Delta R.T. 0.03 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA_F

ClientSampleId :

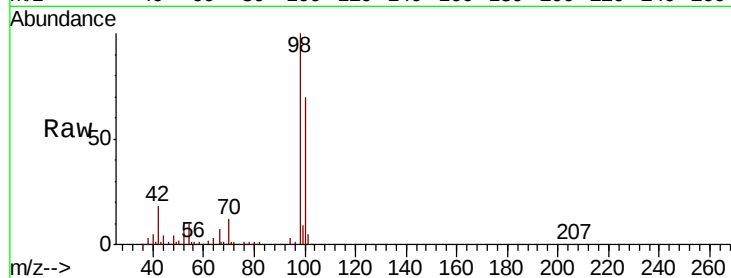
P001-SD006-0006-02RE

Tot Ion: 98 Resp: 172597

Ion Ratio Lower Upper

98 100

100 69.5 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.59

80000

60000

40000

20000

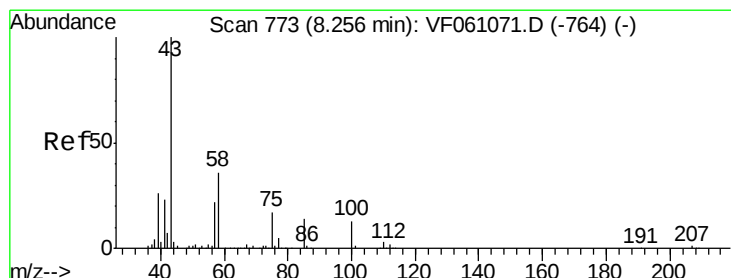
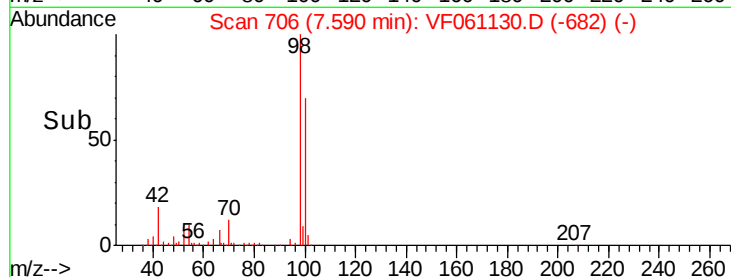
0

7.50

7.60

7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.160 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.04 min

Lab File: VF061130.D

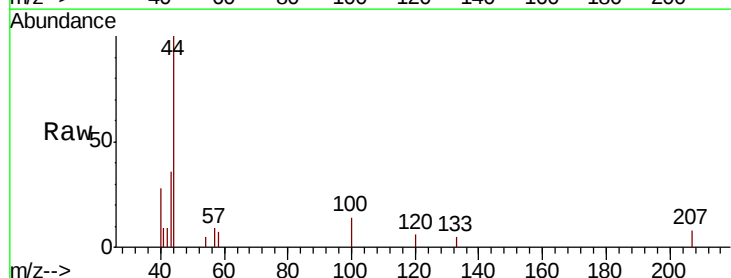
Acq: 21 Dec 2018 17:12

Tgt Ion: 43 Resp: 2379

Ion Ratio Lower Upper

43 100

58 20.9 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.30

600

400

200

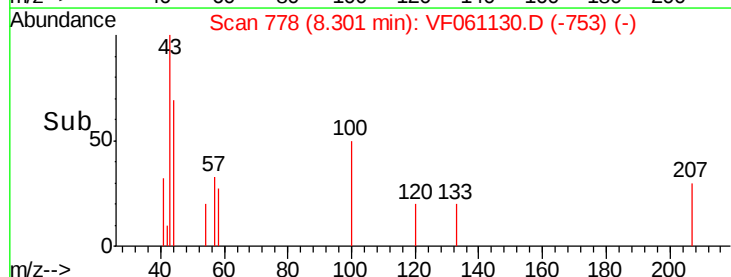
0

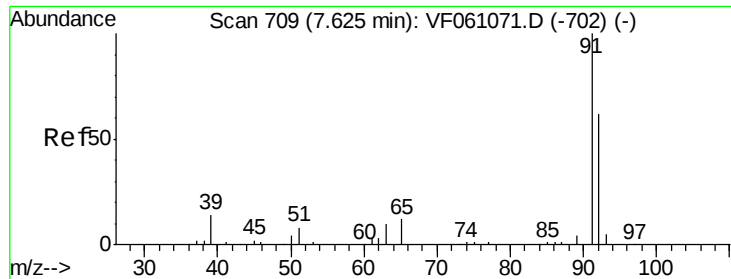
8.20

8.30

8.40

Time-->





#52

Toluene

Concen: 1.740 ug/l

RT: 7.65 min Scan# 712

Delta R.T. 0.02 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA_F

ClientSampleId :

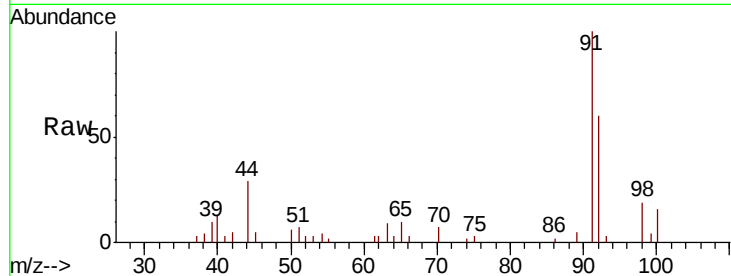
P001-SD006-0006-02RE

Tot Ion: 92 Resp: 8241

Ion Ratio Lower Upper

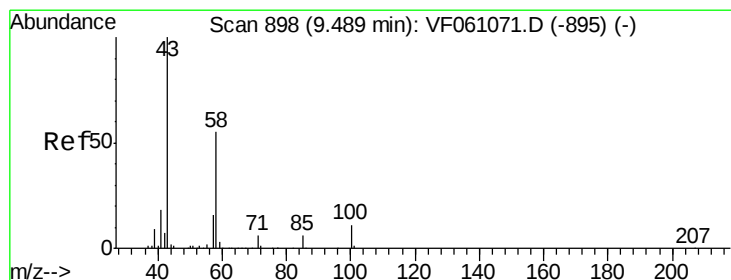
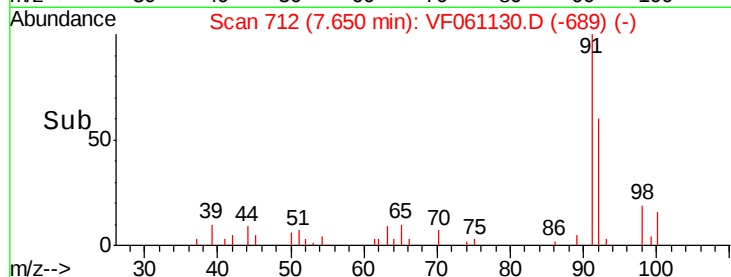
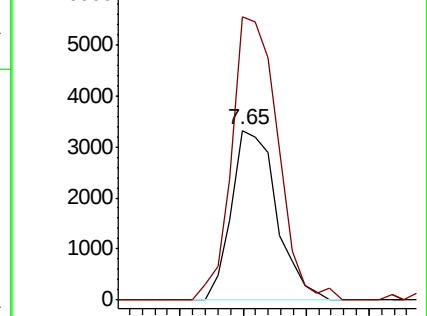
92 100

91 166.8 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 3.802 ug/l

RT: 9.53 min Scan# 903

Delta R.T. 0.04 min

Lab File: VF061130.D

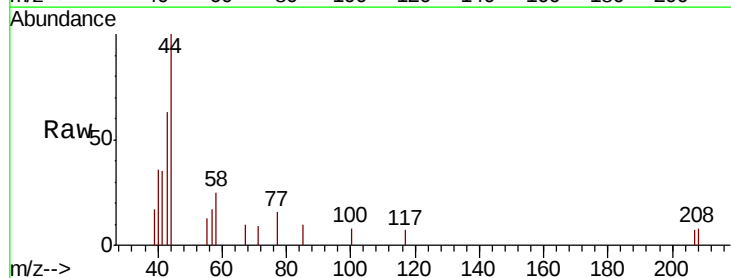
Acq: 21 Dec 2018 17:12

Tgt Ion: 43 Resp: 3029

Ion Ratio Lower Upper

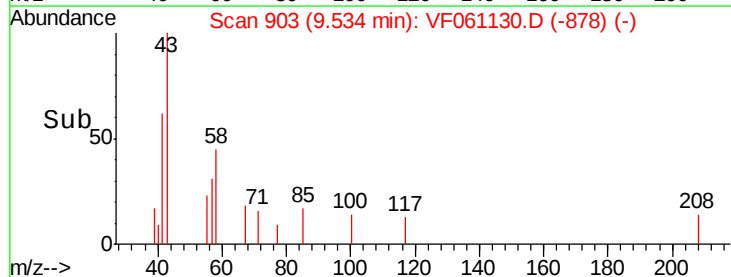
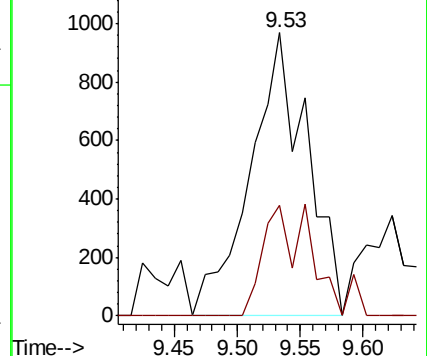
43 100

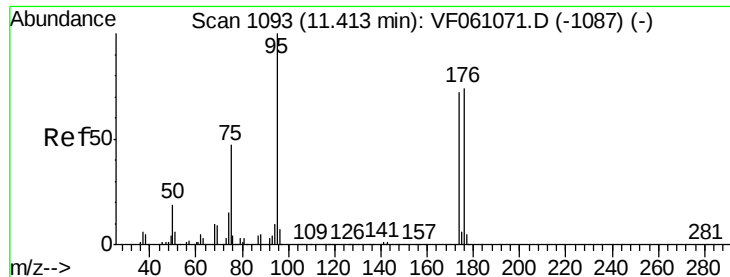
58 39.3 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 18.190 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. 0.02 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-02RE

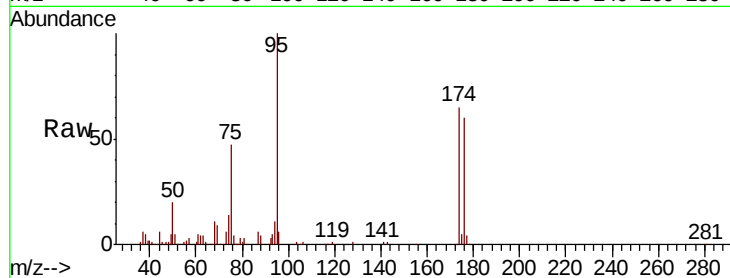
Tot Ion: 95 Resp: 52465

Ion Ratio Lower Upper

95 100

174 65.5 0.0 143.8

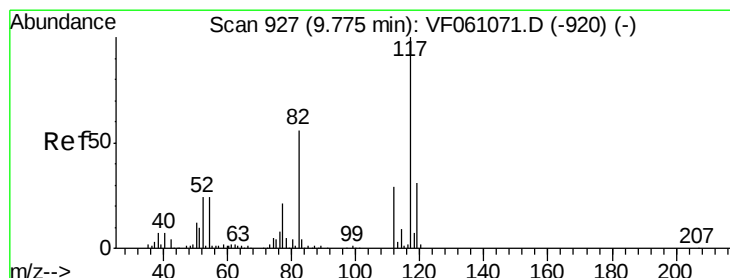
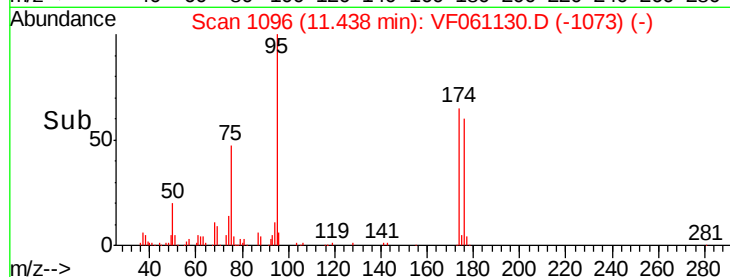
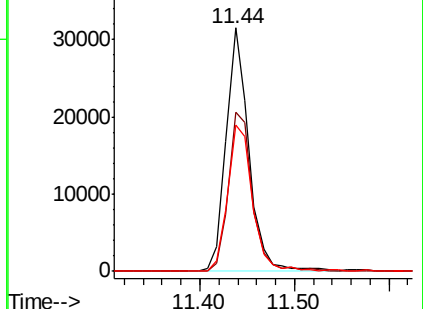
176 60.1 0.0 147.6



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: 9.81 min Scan# 931

Delta R.T. 0.03 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

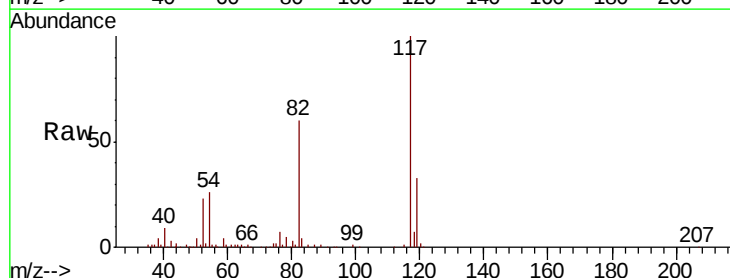
Tgt Ion: 117 Resp: 170893

Ion Ratio Lower Upper

117 100

82 60.2 45.0 67.4

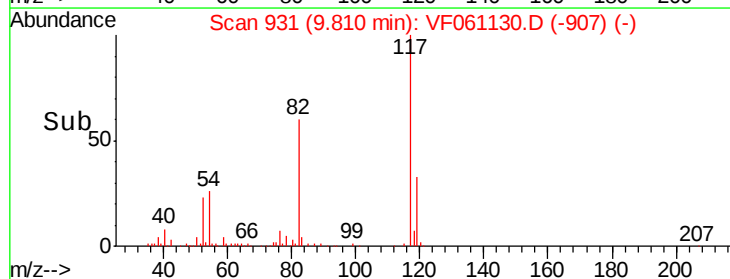
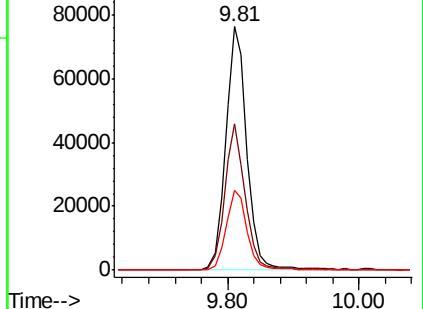
119 32.9 24.8 37.2

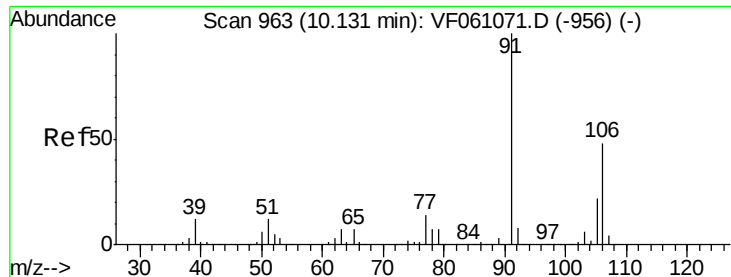


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

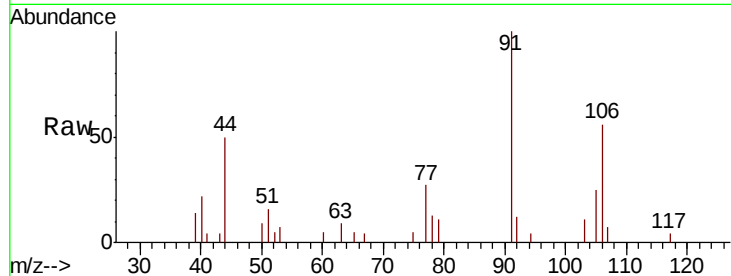




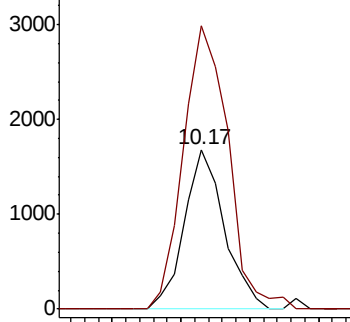
#68
m/p-Xvlenes
Concen: 1.510 ug/l
RT: 10.17 min Scan# 967
Delta R.T. 0.03 min
Lab File: VF061130.D
Acq: 21 Dec 2018 17:12

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0006-02RE

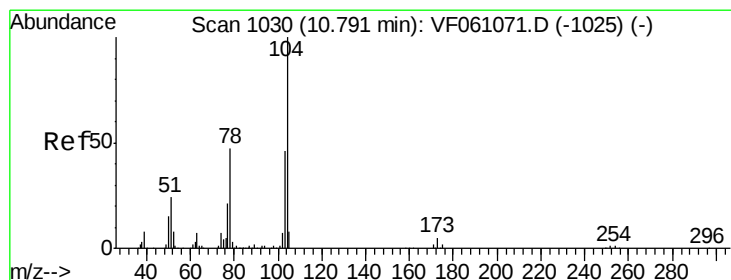
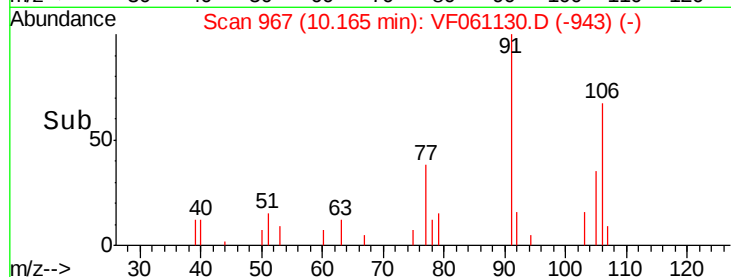
Tot Ion:106 Resp: 3417
Ion Ratio Lower Upper
106 100
91 177.7 168.2 252.2



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

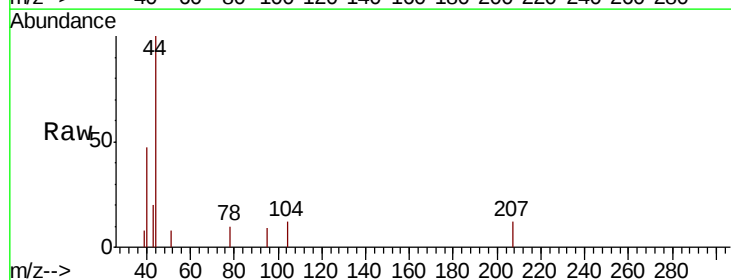


Time-->

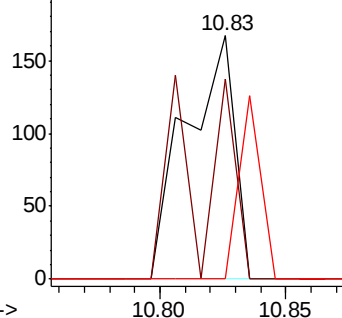


#70
Styrene
Concen: Below Cal
RT: 10.83 min Scan# 1034
Delta R.T. 0.03 min
Lab File: VF061130.D
Acq: 21 Dec 2018 17:12

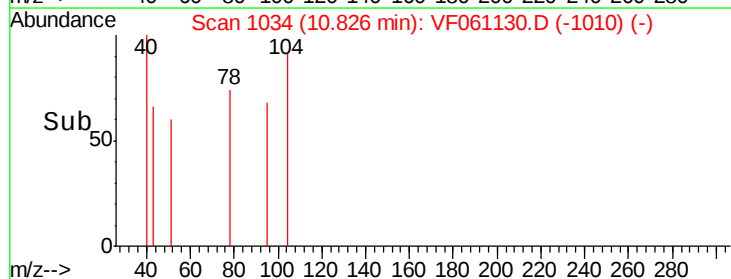
Tgt Ion:104 Resp: 225
Ion Ratio Lower Upper
104 100
78 82.0 38.4 57.6#
103 0.0 37.0 55.6#

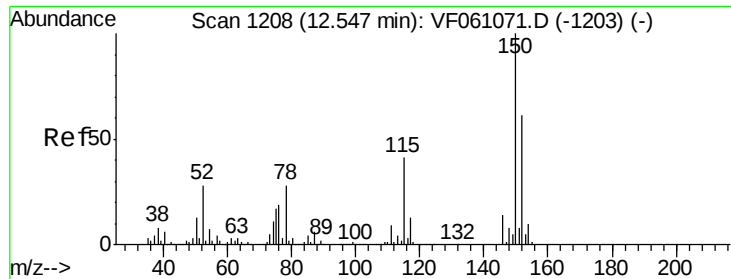


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V



Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.58 min Scan# 1212

Delta R.T. 0.03 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-02RE

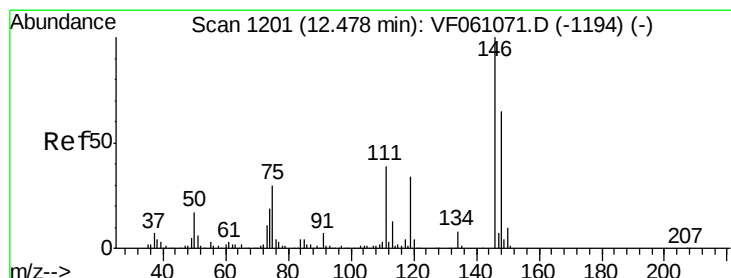
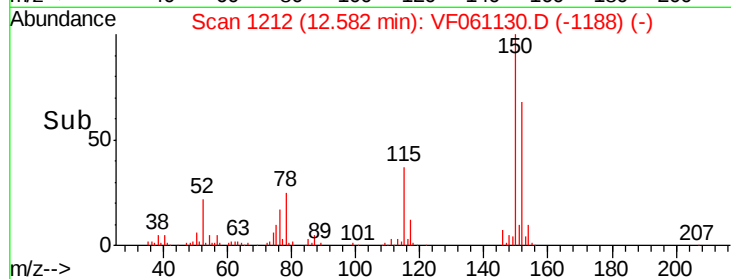
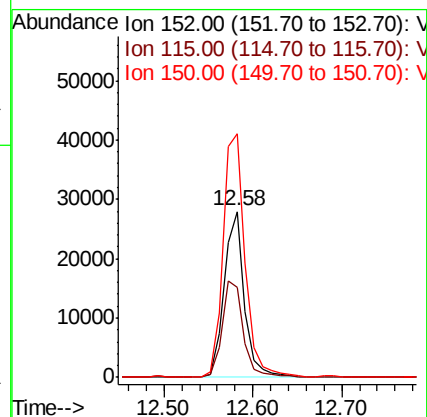
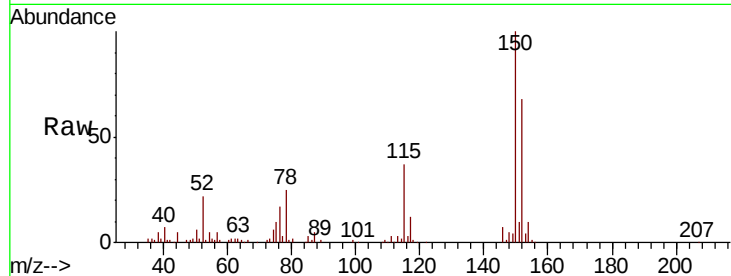
Tot Ion:152 Resp: 44843

Ion Ratio Lower Upper

152 100

115 54.1 33.3 99.9

150 146.7 0.0 328.2



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.50 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

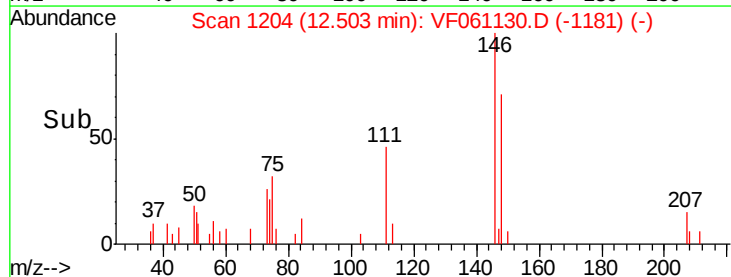
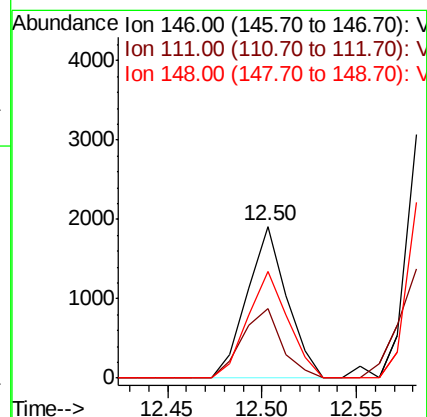
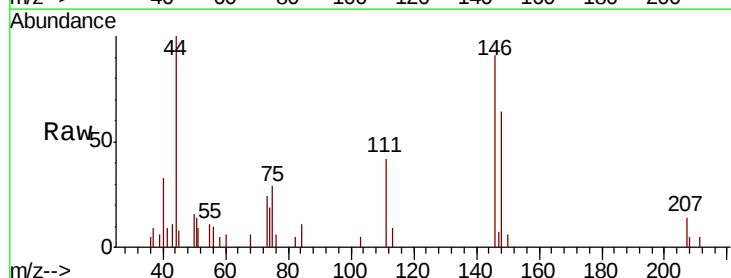
Tgt Ion:146 Resp: 2800

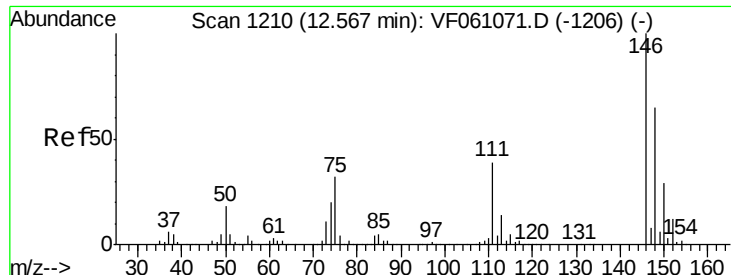
Ion Ratio Lower Upper

146 100

111 45.9 19.3 57.9

148 70.6 32.4 97.2





#88

1,4-Dichlorobenzene

Concen: 4.871 ug/l

RT: 12.59 min Scan# 1213

Delta R.T. 0.02 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-02RE

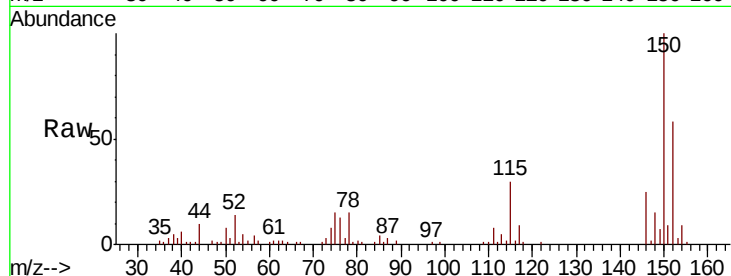
Tot Ion:146 Resp: 7440

Ion Ratio Lower Upper

146 100

111 30.8 19.4 58.4

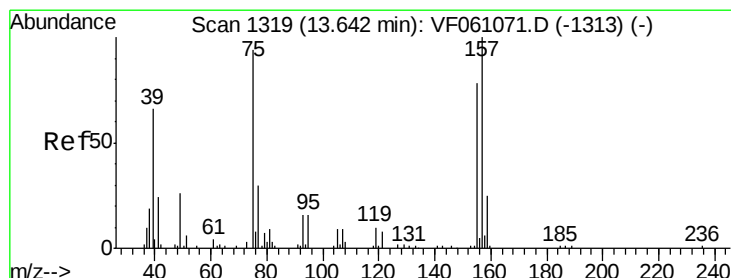
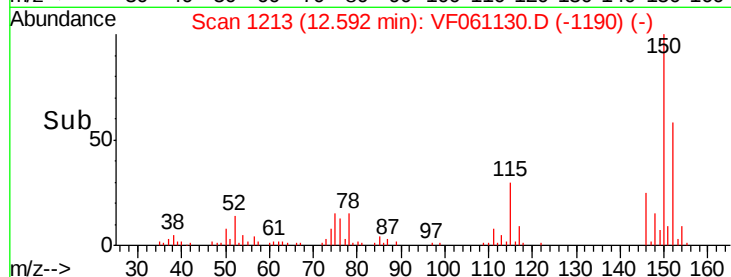
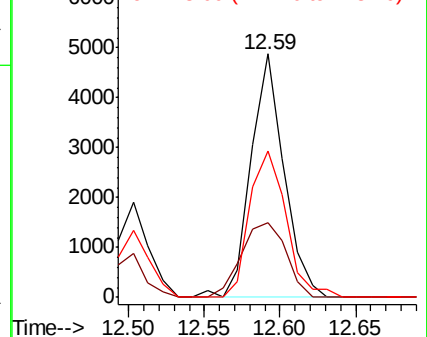
148 60.3 32.4 97.0



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.708 ug/l

RT: 13.70 min Scan# 1325

Delta R.T. 0.05 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

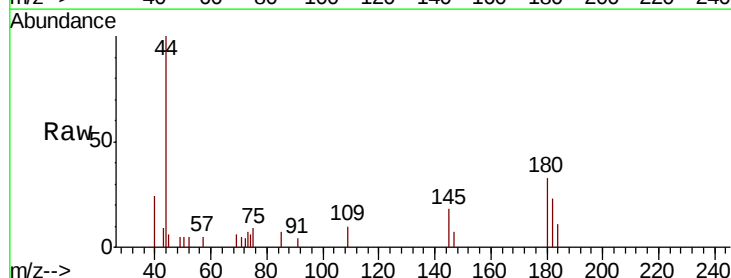
Tgt Ion: 75 Resp: 201

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

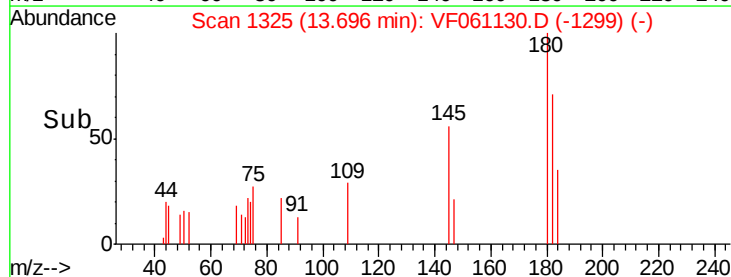
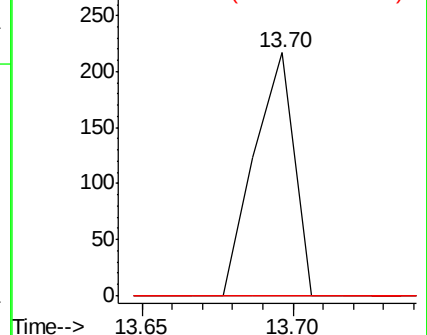
157 0.0 53.2 159.6#

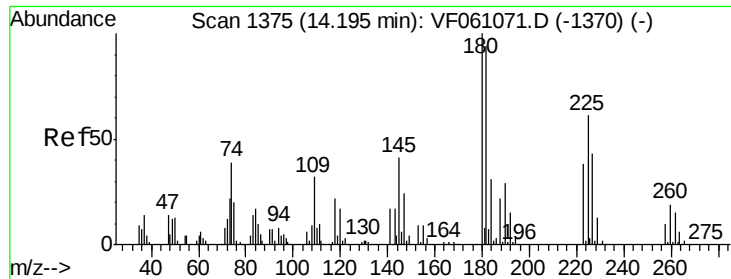


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#93
 1,2,4-Trichlorobenzene
 Concen: 1.095 ug/l
 RT: 14.23 min Scan# 1379
 Delta R.T. 0.03 min
 Lab File: VF061130.D
 Acq: 21 Dec 2018 17:12

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0006-02RE

Tot Ion	Ratio	Lower	Upper
180	100		
182	82.2	46.9	140.6
145	18.0	20.5	61.6

