

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082018\
 Data File : VF060001.D
 Acq On : 20 Aug 2018 14:37
 Operator : VA/AP
 Sample : VF0820SBL01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0820SBL01

Quant Time: Aug 21 04:24:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 18 01:11:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	130550	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	178842	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.91	117	194496	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	128458	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	134182	53.25	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	106.50%	
35) Dibromofluoromethane	4.30	113	102068	55.84	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	111.68%	
50) Toluene-d8	7.71	98	213725	52.58	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	105.16%	
62) 4-Bromofluorobenzene	11.51	95	134537	53.94	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	107.88%	

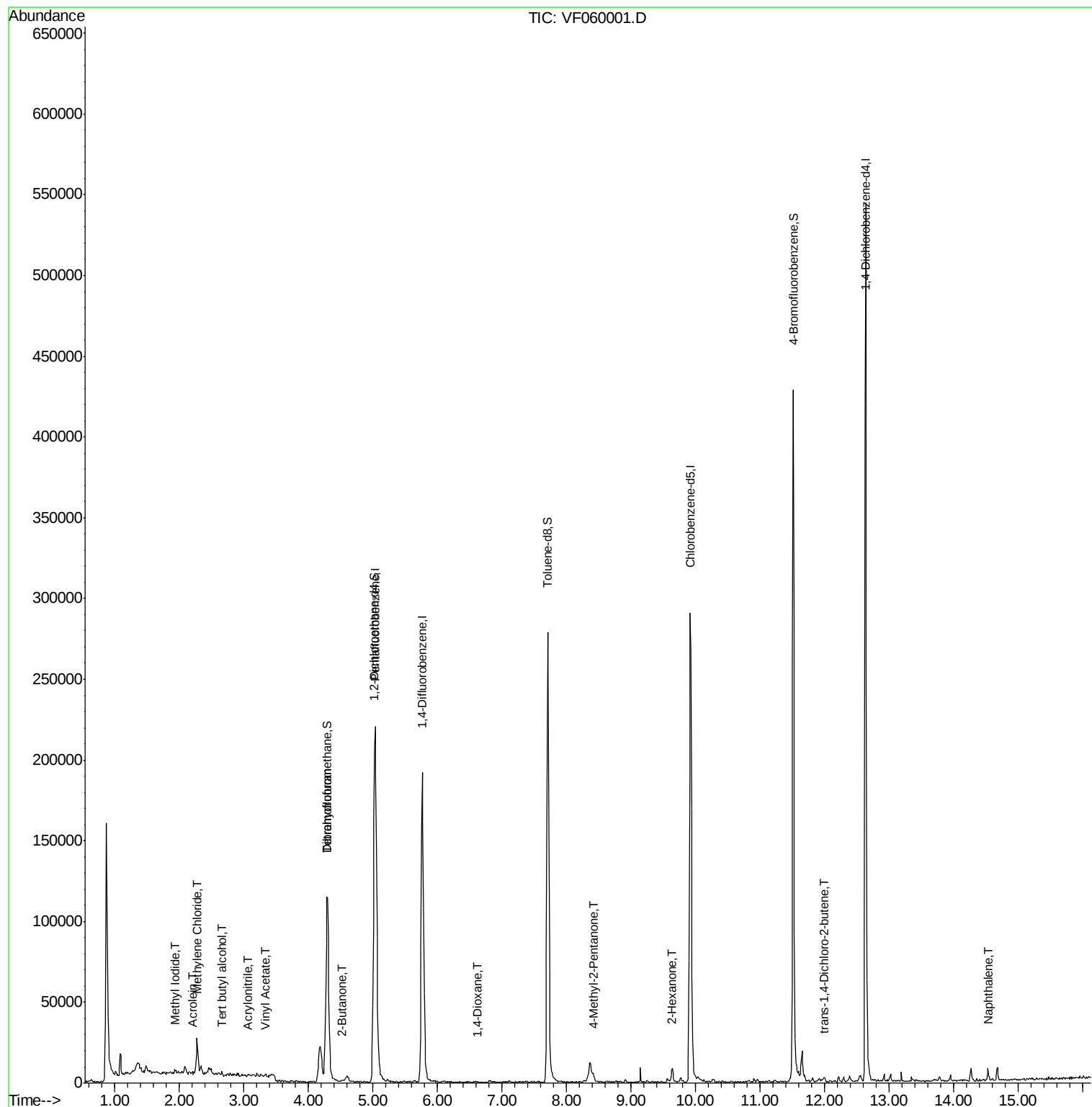
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	1.93	142	3096	1.38	ug/l #	91
11) Tert butyl alcohol	2.66	59	860	5.86	ug/l #	76
13) Acrolein	2.22	56	69	13.41	ug/l	87
15) Acrylonitrile	3.06	53	465	1.96	ug/l #	72
16) Acetone	2.34	43	2966	Below	Cal #	90
18) Methyl Acetate	2.46	43	2496	Below	Cal #	63
20) Methylene Chloride	2.27	84	8095	1.88	ug/l	85
23) Vinyl Acetate	3.34	43	1846	1.03	ug/l #	84
25) 2-Butanone	4.51	43	1354	2.22	ug/l #	58
29) Tetrahydrofuran	4.28	42	282	1.30	ug/l #	58
49) 1,4-Dioxane	6.62	88	71	65.65	ug/l #	25
51) 4-Methyl-2-Pentanone	8.42	43	4141	3.58	ug/l #	81
59) 2-Hexanone	9.64	43	7082	7.41	ug/l	89
81) trans-1,4-Dichloro-2-buten	11.98	75	601	1.06	ug/l #	35
95) Naphthalene	14.53	128	4686	1.04	ug/l #	95

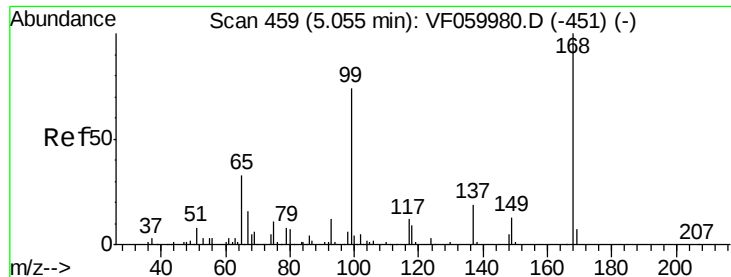
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 18 01:11:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

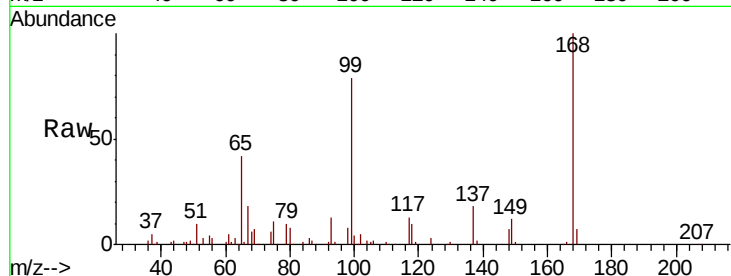
VF0820SBL01

Tot Ion:168 Resp: 130550

Ion Ratio Lower Upper

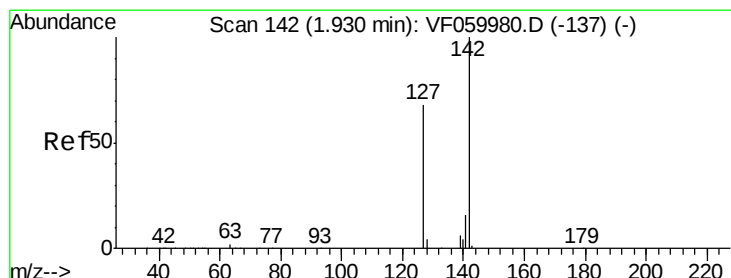
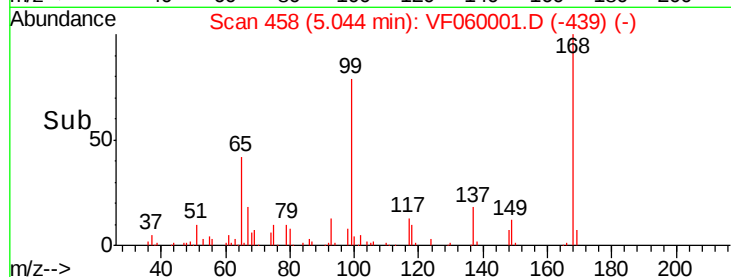
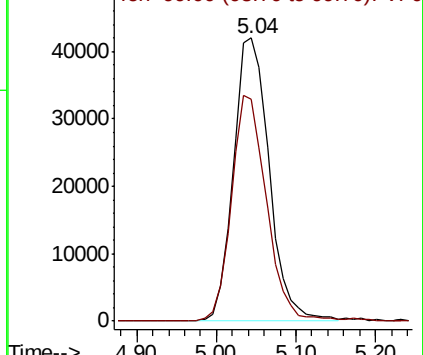
168 100

99 78.6 59.0 88.6



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#10

Methyl Iodide

Concen: 1.38 ug/l

RT: 1.93 min Scan# 142

Delta R.T. -0.00 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

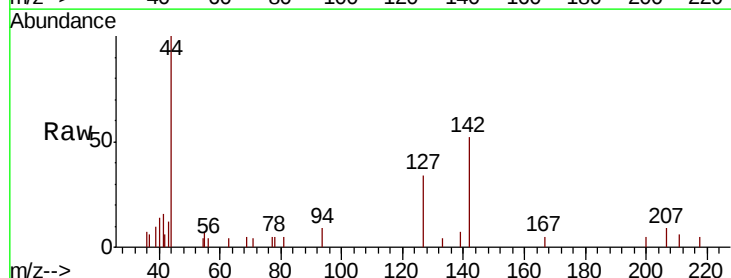
Tgt Ion:142 Resp: 3096

Ion Ratio Lower Upper

142 100

127 65.6 54.1 81.1

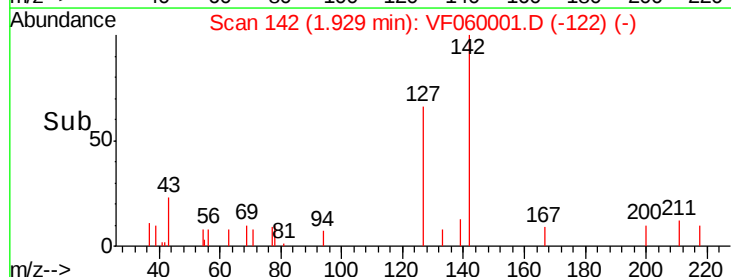
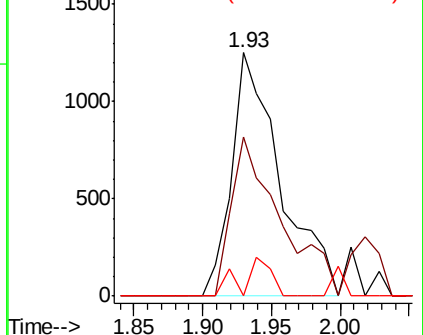
141 0.0 12.5 18.7#

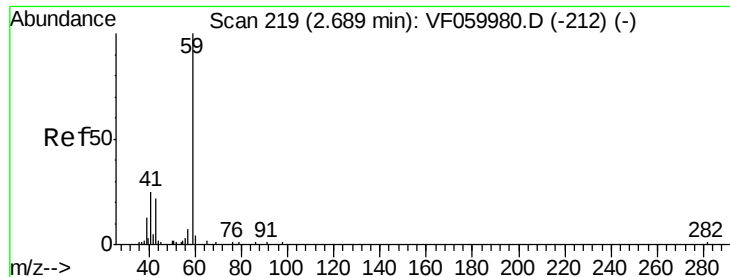


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

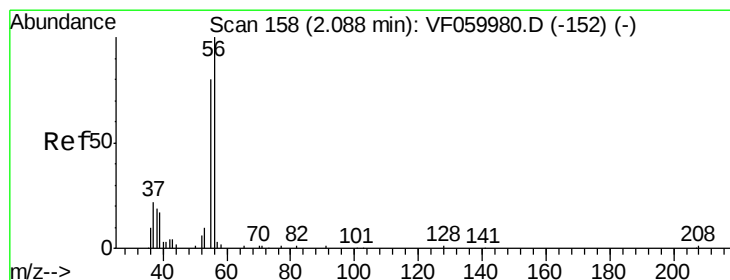
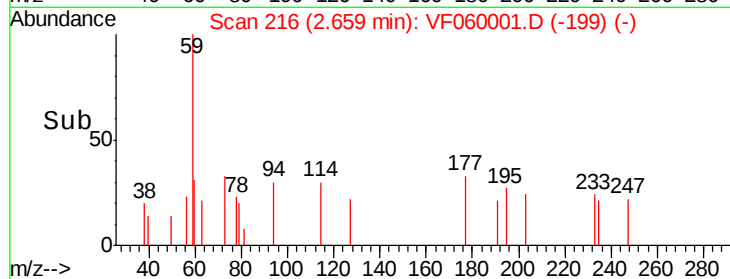
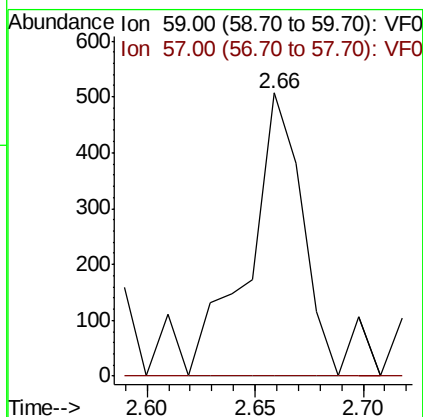
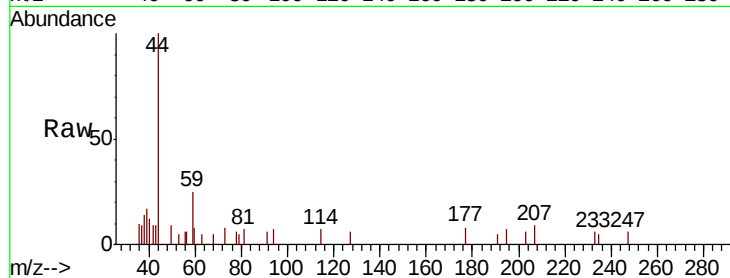




#11
Tert butyl alcohol
Concen: 5.86 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.03 min
Lab File: VF060001.D
Acq: 20 Aug 2018 14:37

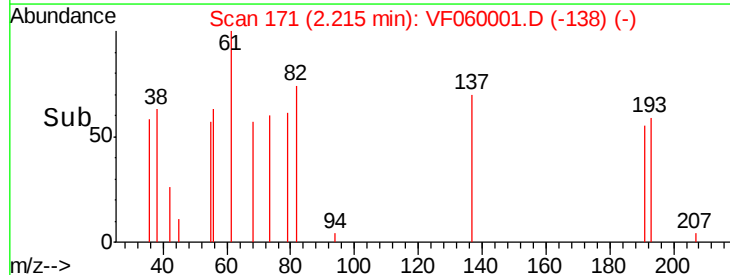
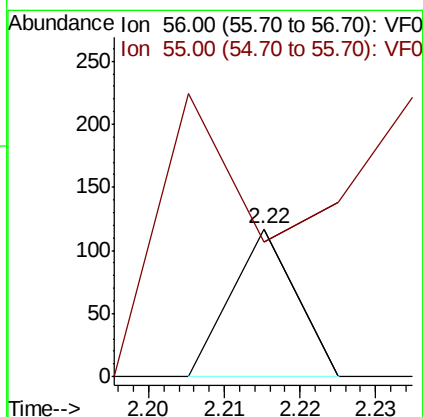
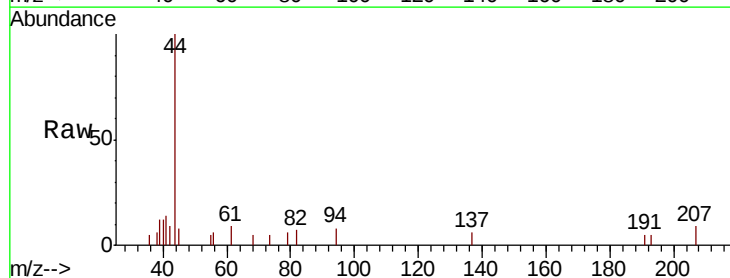
Instrument :
MSVOA_F
ClientSampleId :
VF0820SBL01

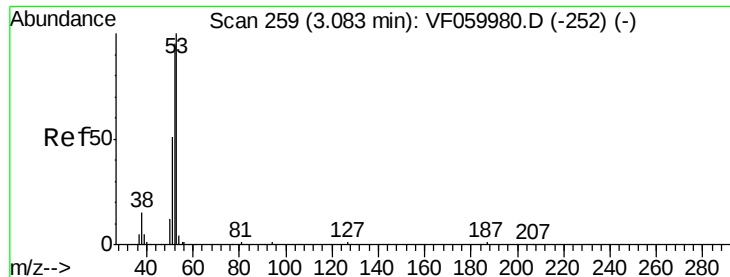
Tot Ion: 59 Resp: 860
Ion Ratio Lower Upper
59 100
57 0.0 6.8 10.2#



#13
Acrolein
Concen: 13.41 ug/l
RT: 2.22 min Scan# 171
Delta R.T. 0.13 min
Lab File: VF060001.D
Acq: 20 Aug 2018 14:37

Tgt Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
55 91.5 63.8 95.6





#15

Acrylonitrile

Concen: 1.96 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0820SBL01

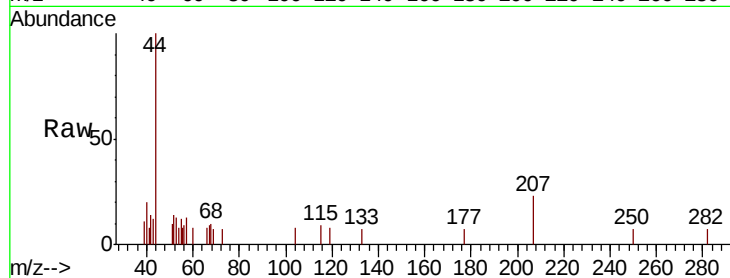
Tot Ion: 53 Resp: 465

Ion Ratio Lower Upper

53 100

52 114.5 76.0 114.0#

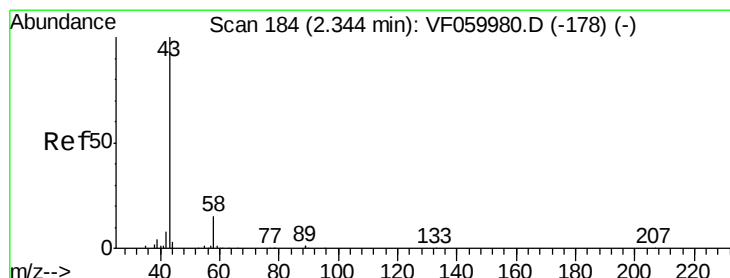
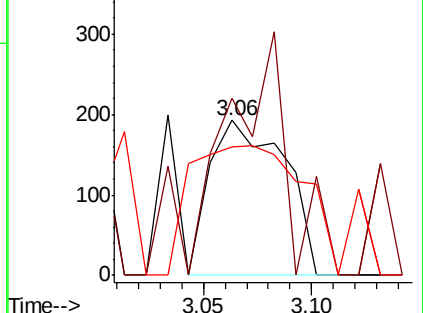
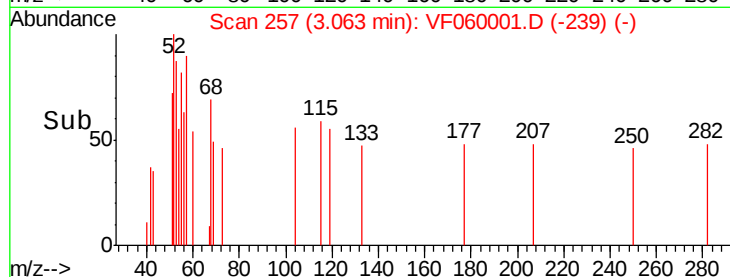
51 82.4 41.9 62.9#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: Below Cal

RT: 2.34 min Scan# 184

Delta R.T. 0.00 min

Lab File: VF060001.D

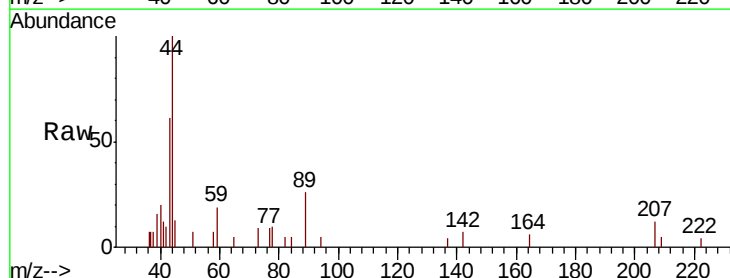
Acq: 20 Aug 2018 14:37

Tgt Ion: 43 Resp: 2966

Ion Ratio Lower Upper

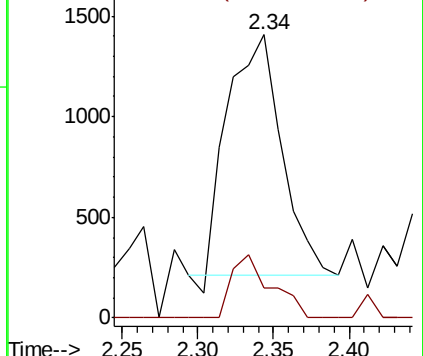
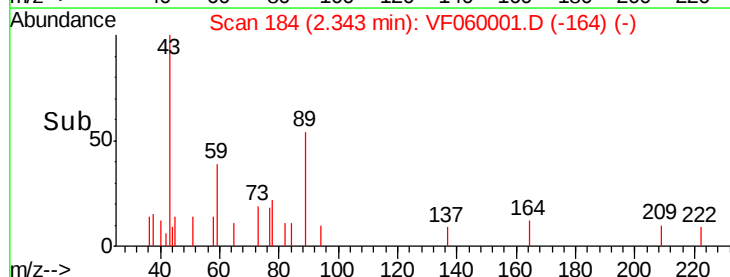
43 100

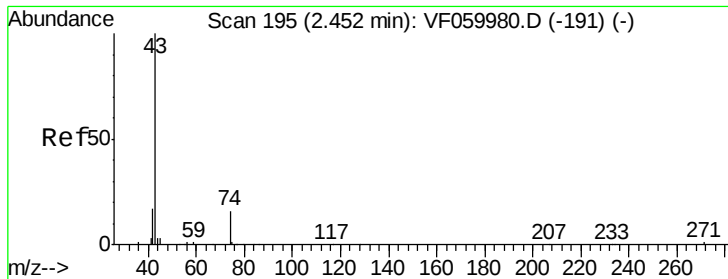
58 10.7 11.9 17.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

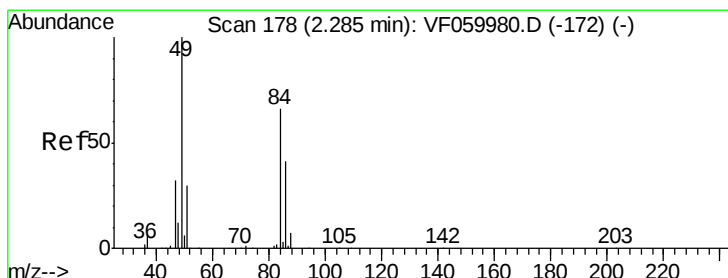
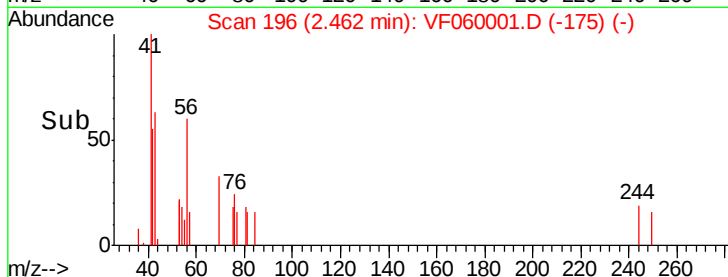
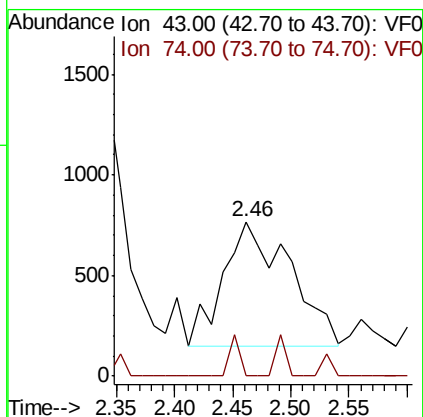
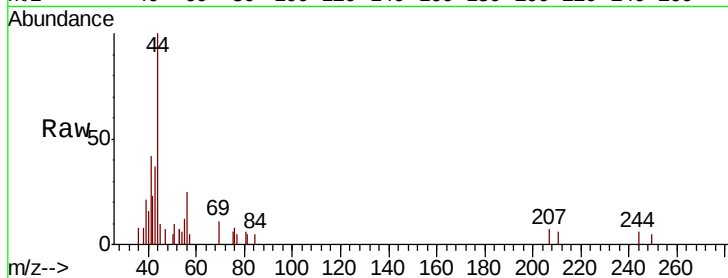




#18
Methyl Acetate
Concen: Below Cal
RT: 2.46 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF060001.D
Acq: 20 Aug 2018 14:37

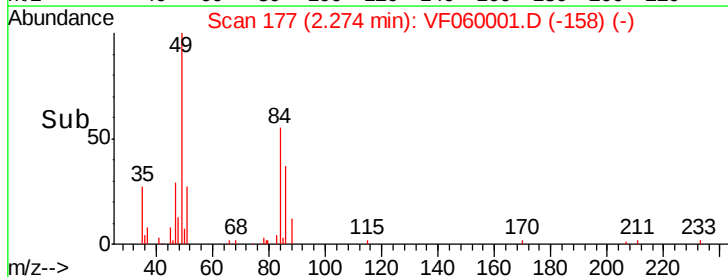
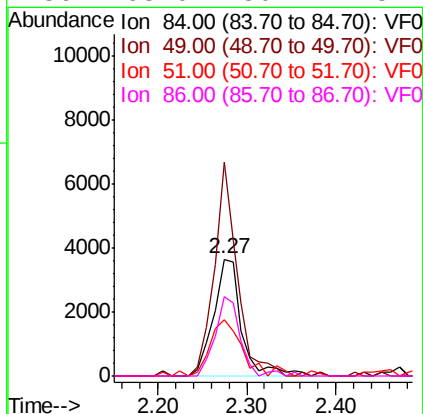
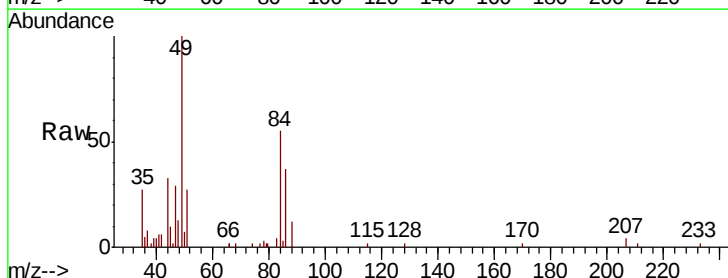
Instrument :
MSVOA_F
ClientSampleId :
VF0820SBL01

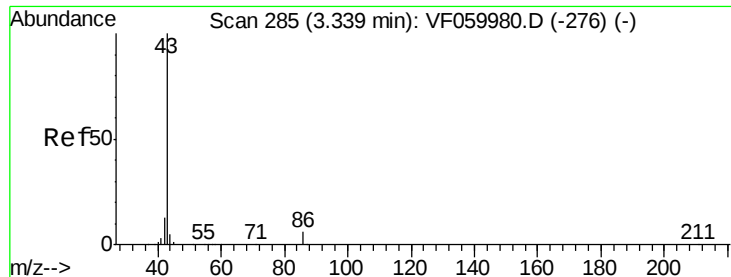
Tot Ion: 43 Resp: 2496
Ion Ratio Lower Upper
43 100
74 0.0 12.3 18.5#



#20
Methylene Chloride
Concen: 1.88 ug/l
RT: 2.27 min Scan# 177
Delta R.T. -0.01 min
Lab File: VF060001.D
Acq: 20 Aug 2018 14:37

Tgt Ion: 84 Resp: 8095
Ion Ratio Lower Upper
84 100
49 182.4 122.5 183.7
51 48.5 37.1 55.7
86 68.0 50.2 75.2





#23

Vinyl Acetate

Concen: 1.03 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.00 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

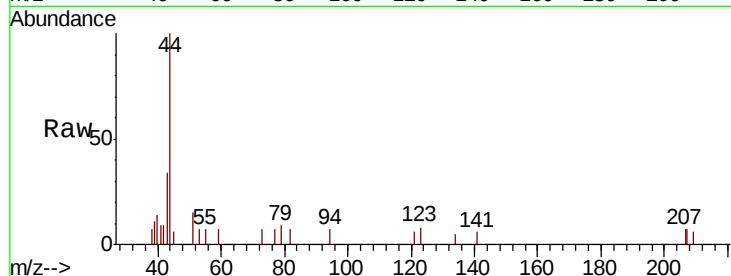
VF0820SBL01

Tot Ion: 43 Resp: 1846

Ion Ratio Lower Upper

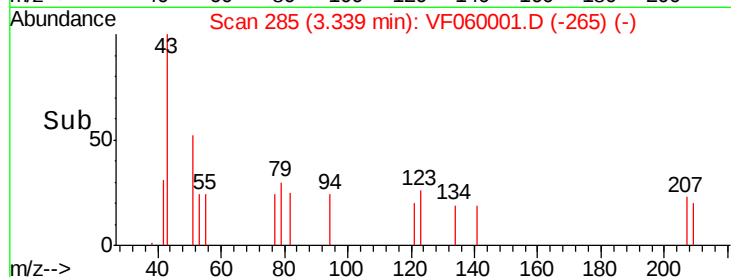
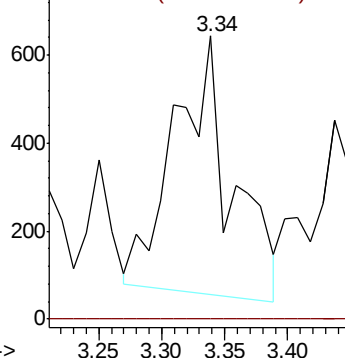
43 100

86 0.0 4.4 6.6#

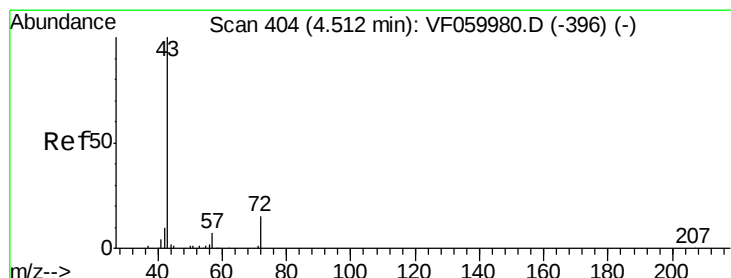


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#25

2-Butanone

Concen: 2.22 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.00 min

Lab File: VF060001.D

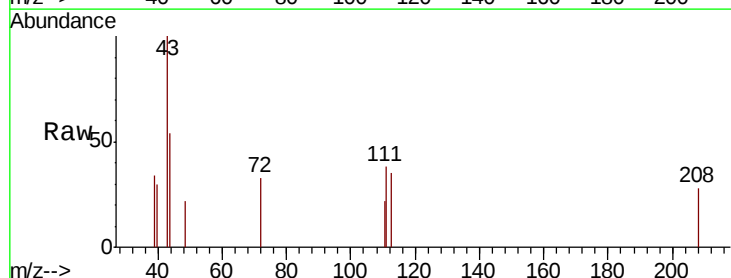
Acq: 20 Aug 2018 14:37

Tgt Ion: 43 Resp: 1354

Ion Ratio Lower Upper

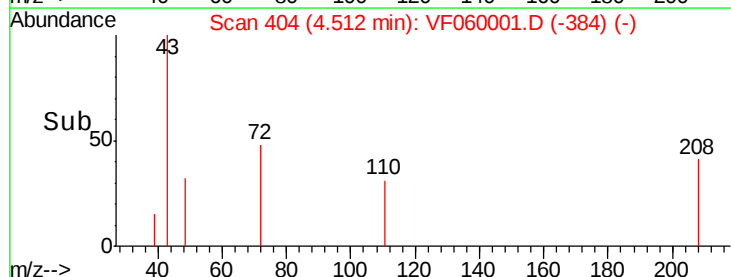
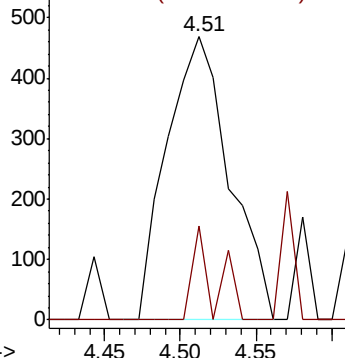
43 100

72 33.3 12.5 18.7#

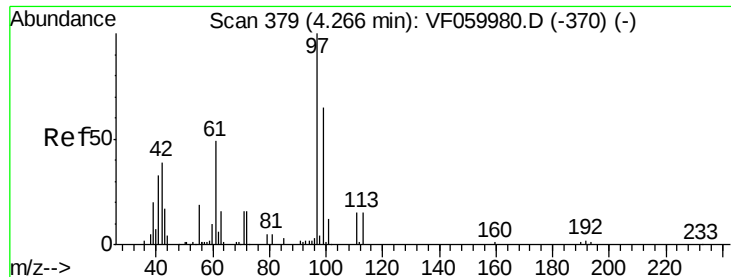


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



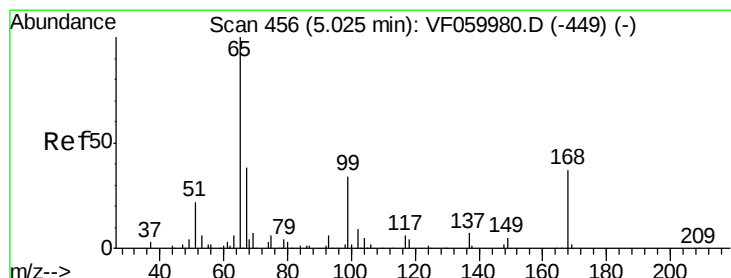
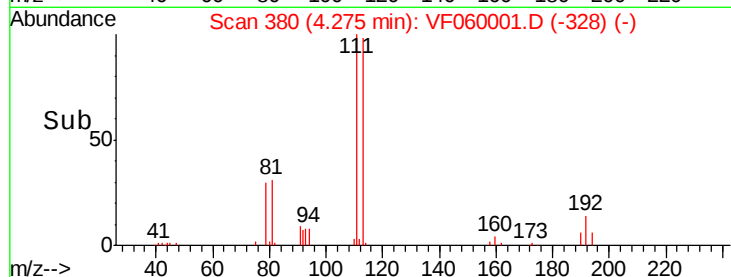
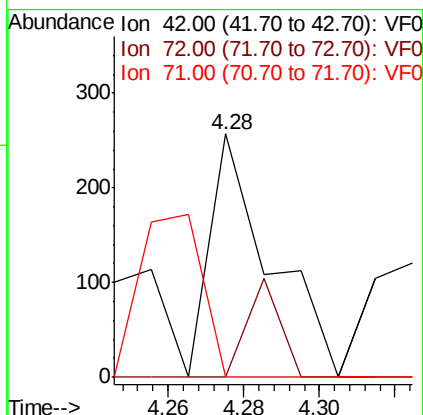
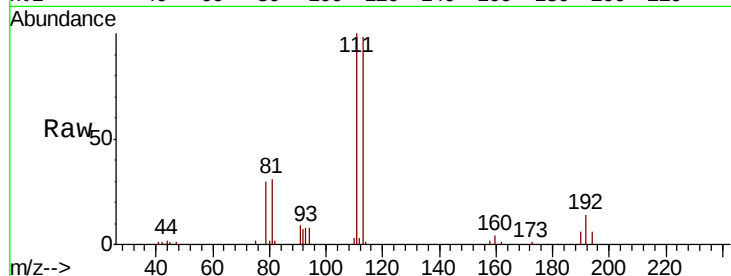
Time-->



#29
Tetrahydrofuran
Concen: 1.30 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.01 min
Lab File: VF060001.D
Acq: 20 Aug 2018 14:37

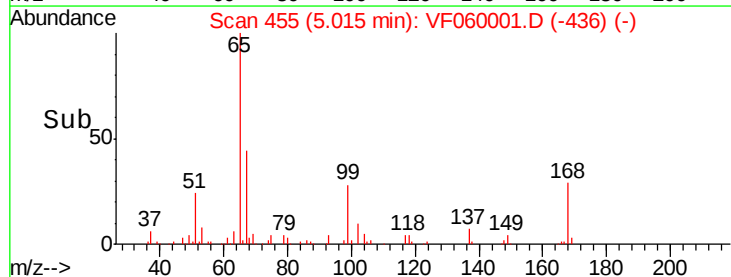
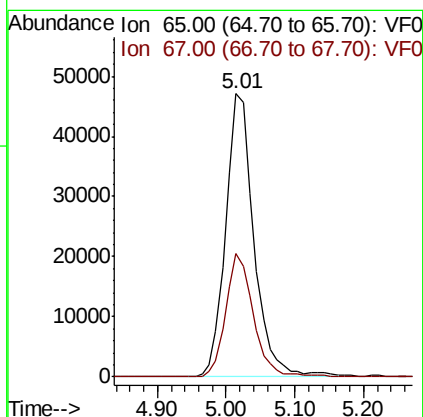
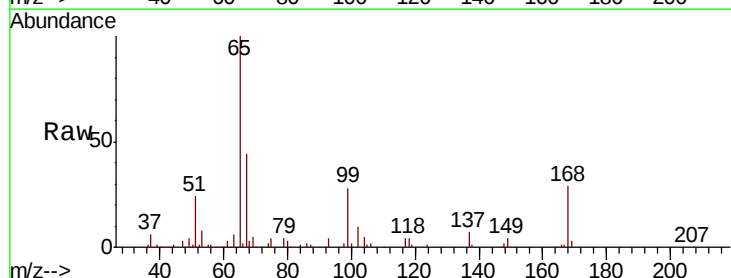
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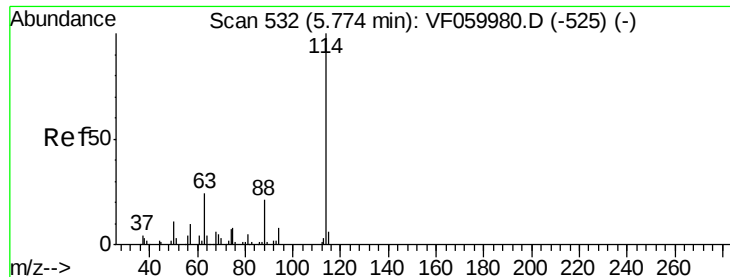
Tot Ion: 42 Resp: 282
Ion Ratio Lower Upper
42 100
72 22.0 29.8 44.6#
71 70.6 29.0 43.4#



#33
1,2-Dichloroethane-d4
Concen: 53.25 ug/l
RT: 5.01 min Scan# 455
Delta R.T. -0.01 min
Lab File: VF060001.D
Acq: 20 Aug 2018 14:37

Tgt Ion: 65 Resp: 134182
Ion Ratio Lower Upper
65 100
67 43.8 0.0 82.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.01 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0820SBL01

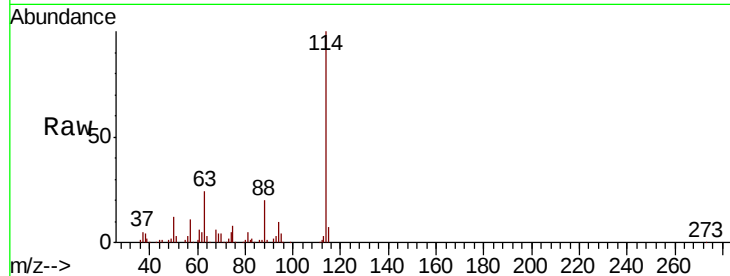
Tot Ion:114 Resp: 178842

Ion Ratio Lower Upper

114 100

63 23.9 0.0 48.6

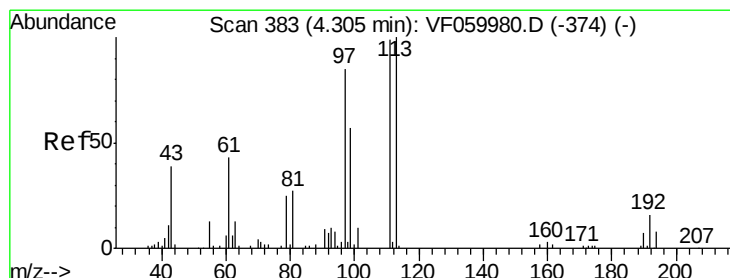
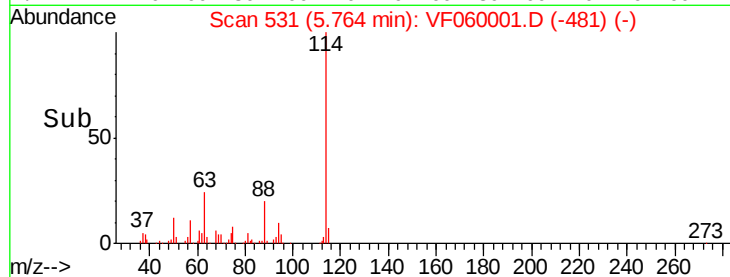
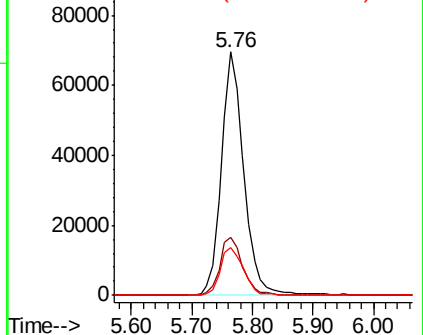
88 19.6 0.0 42.8



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: 55.84 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

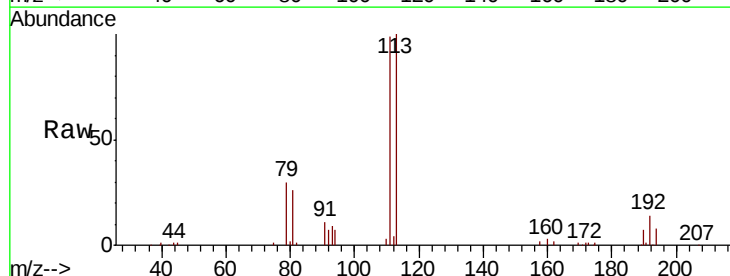
Tgt Ion:113 Resp: 102068

Ion Ratio Lower Upper

113 100

111 99.4 79.5 119.3

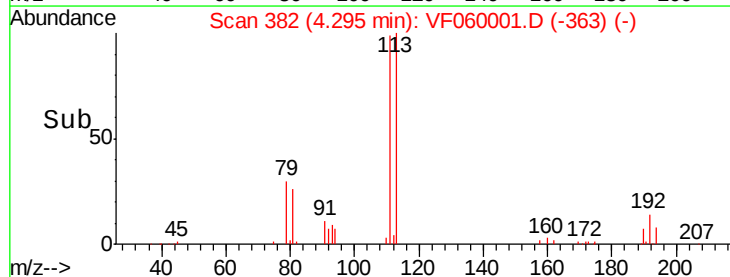
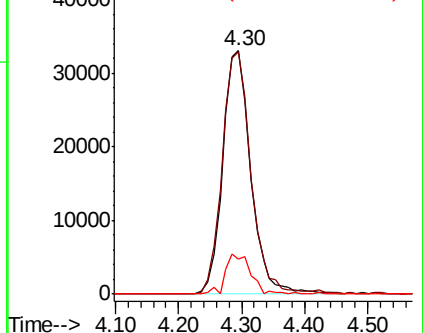
192 14.5 12.4 18.6

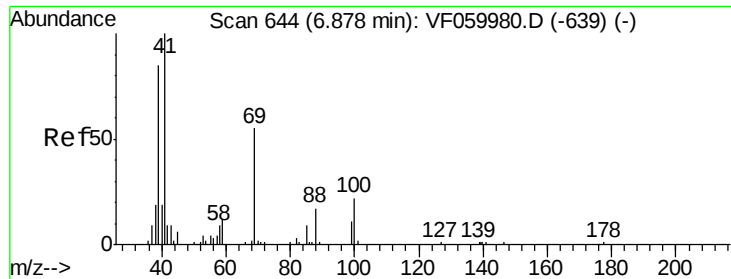


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

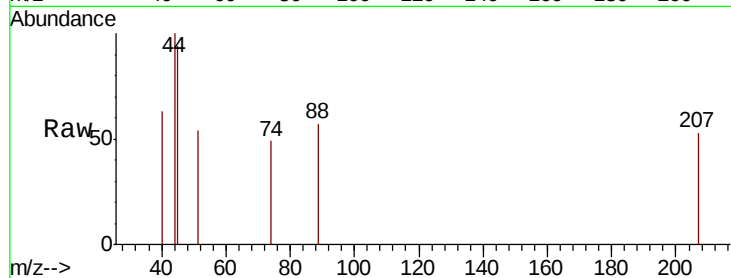




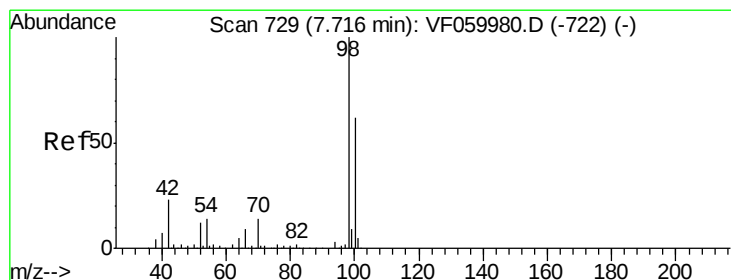
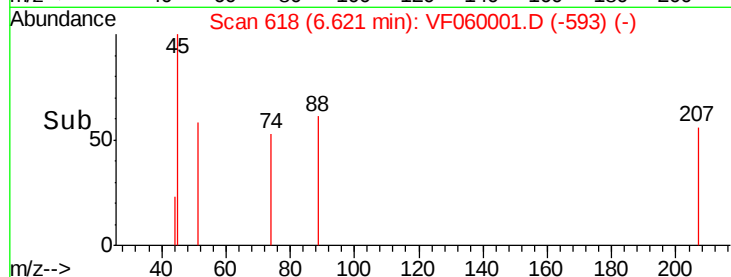
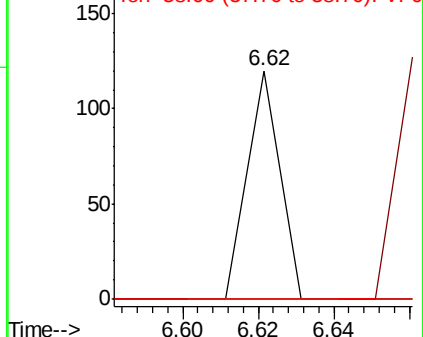
#49
 1,4-Dioxane
 Concen: 65.65 ug/l
 RT: 6.62 min Scan# 618
 Delta R.T. -0.26 min
 Lab File: VF060001.D
 Acq: 20 Aug 2018 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0820SBL01

Tot Ion: 88 Resp: 71
 Ion Ratio Lower Upper
 88 100
 43 0.0 43.2 64.8#
 58 0.0 42.0 63.0#

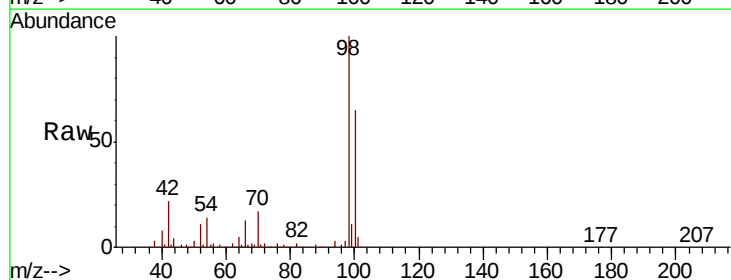


Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0

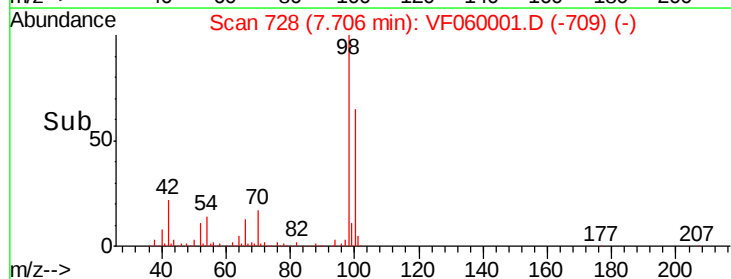
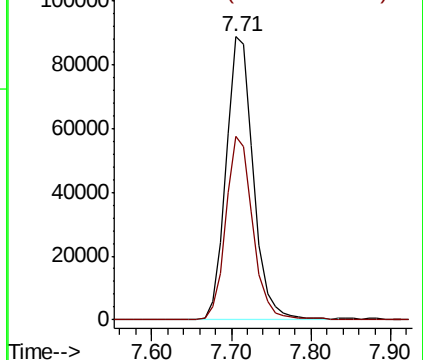


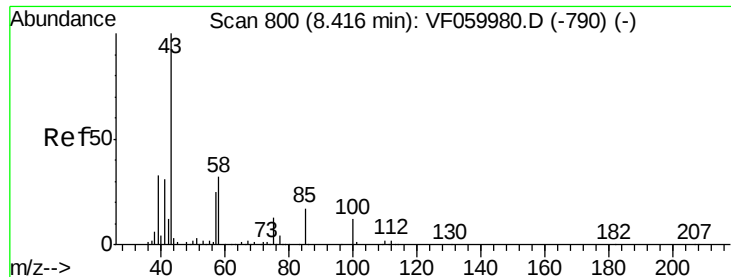
#50
 Toluene-d8
 Concen: 52.58 ug/l
 RT: 7.71 min Scan# 728
 Delta R.T. -0.01 min
 Lab File: VF060001.D
 Acq: 20 Aug 2018 14:37

Tgt Ion: 98 Resp: 213725
 Ion Ratio Lower Upper
 98 100
 100 64.9 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VF0
 Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 3.58 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

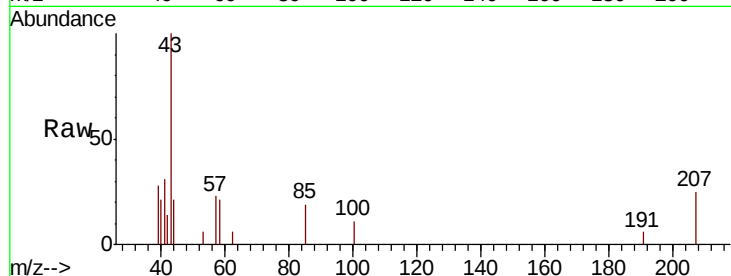
VF0820SBL01

Tot Ion: 43 Resp: 4141

Ion Ratio Lower Upper

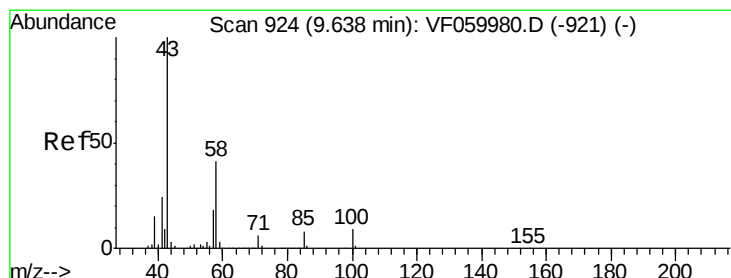
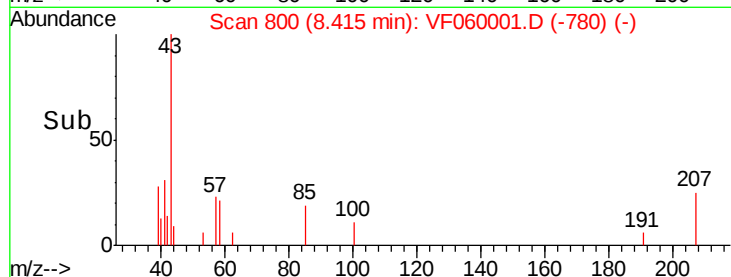
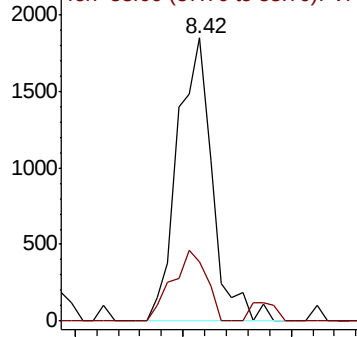
43 100

58 21.1 25.6 38.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 7.41 ug/l

RT: 9.64 min Scan# 924

Delta R.T. -0.00 min

Lab File: VF060001.D

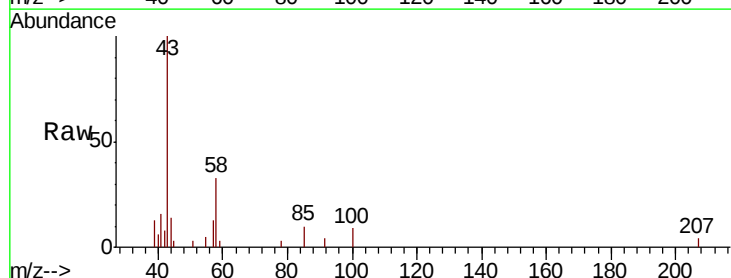
Acq: 20 Aug 2018 14:37

Tgt Ion: 43 Resp: 7082

Ion Ratio Lower Upper

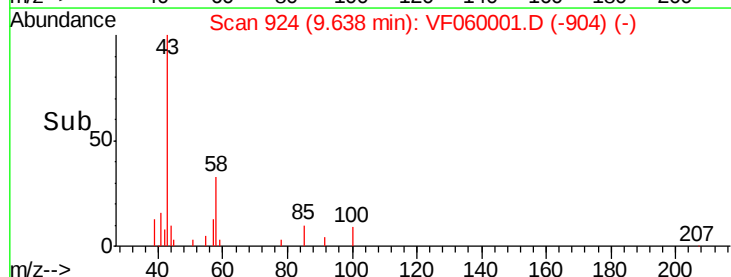
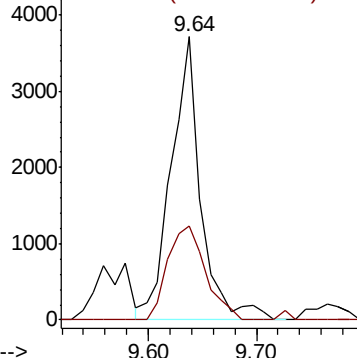
43 100

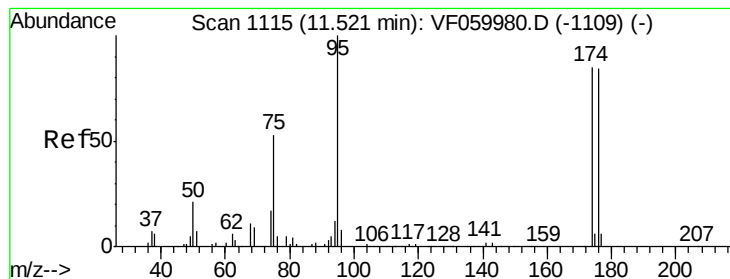
58 33.2 20.1 60.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 53.94 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0820SBL01

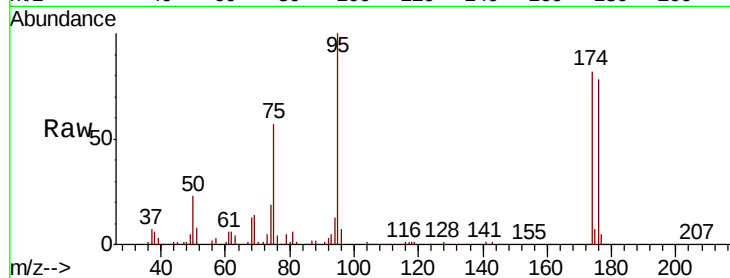
Tot Ion: 95 Resp: 134537

Ion Ratio Lower Upper

95 100

174 82.2 0.0 169.8

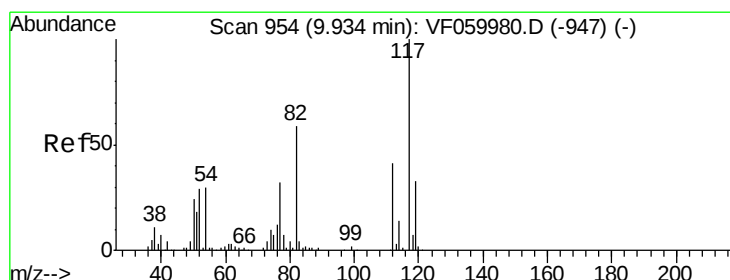
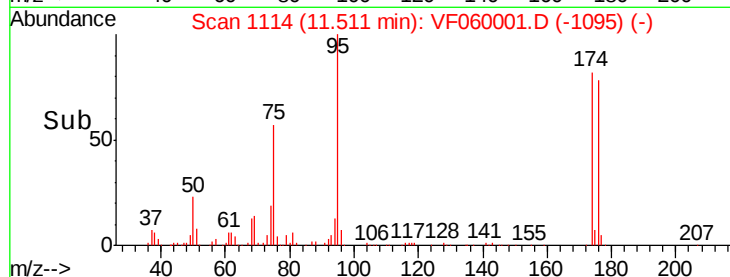
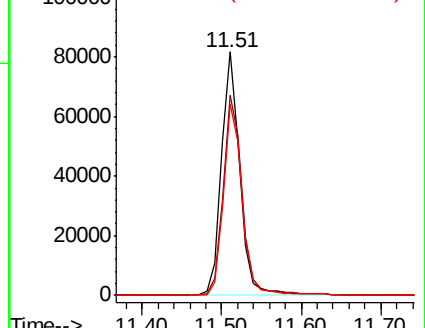
176 78.3 0.0 167.8



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: 50.00 ug/l

RT: 9.91 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

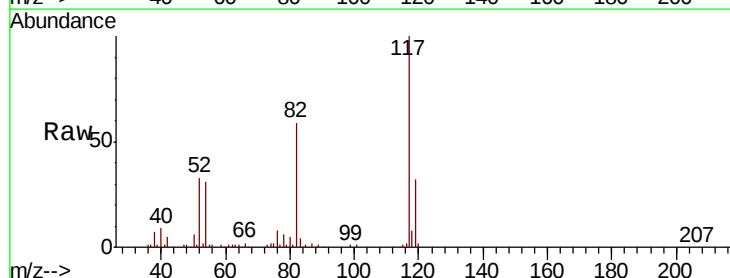
Tgt Ion: 117 Resp: 194496

Ion Ratio Lower Upper

117 100

82 59.1 47.2 70.8

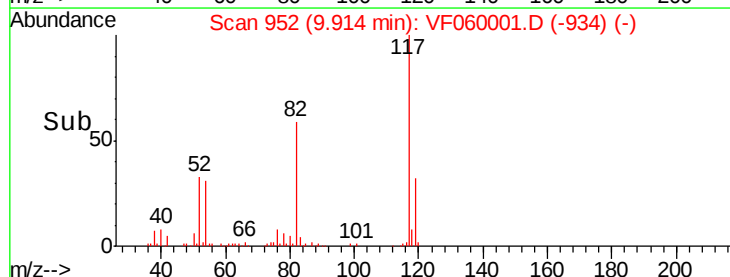
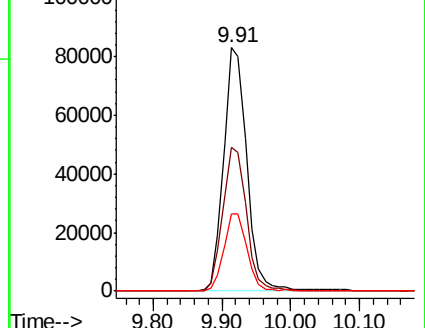
119 31.8 26.1 39.1

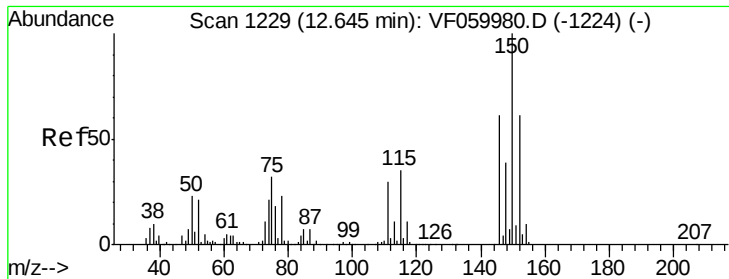


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0820SBL01

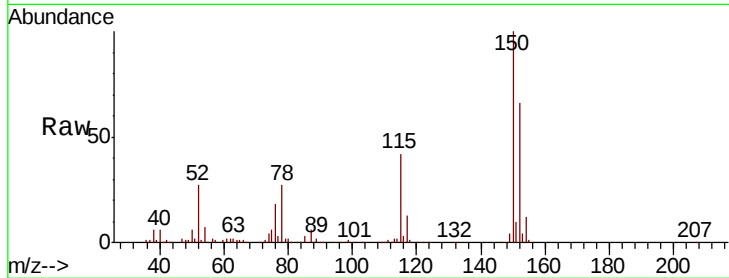
Tot Ion:152 Resp: 128458

Ion Ratio Lower Upper

152 100

115 62.8 29.1 87.3

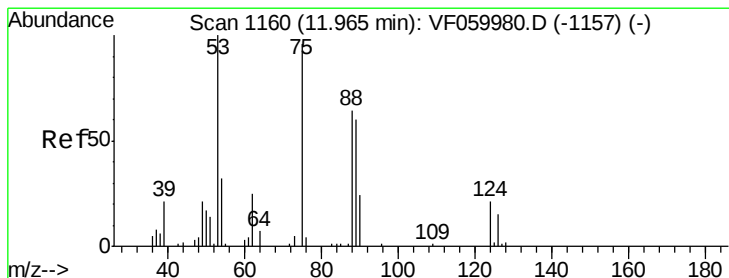
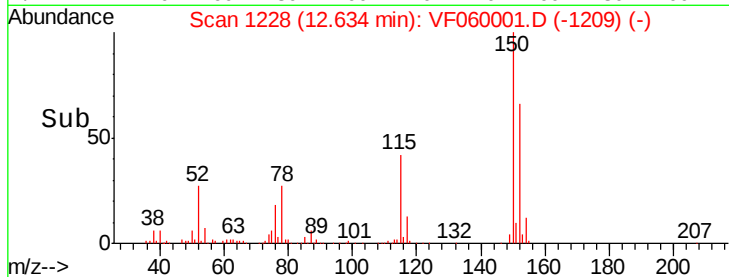
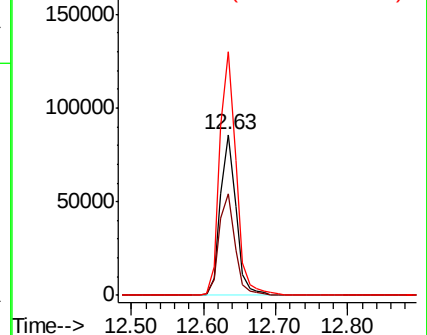
150 151.2 0.0 330.2



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



#81

trans-1,4-Dichloro-2-butene

Concen: 1.06 ug/l

RT: 11.98 min Scan# 1162

Delta R.T. 0.02 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

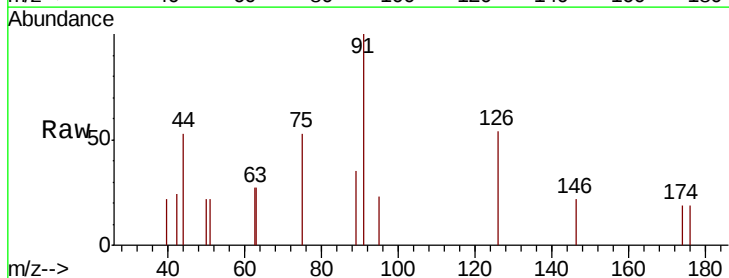
Tgt Ion: 75 Resp: 601

Ion Ratio Lower Upper

75 100

53 0.0 87.4 131.0#

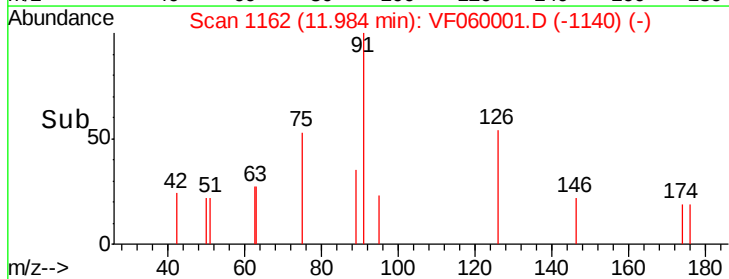
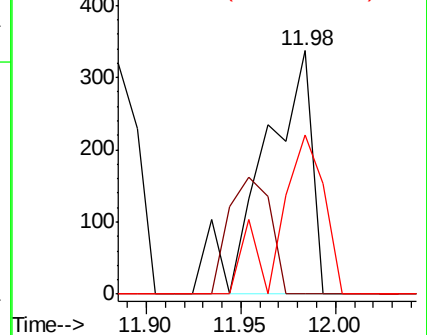
89 65.6 52.8 79.2

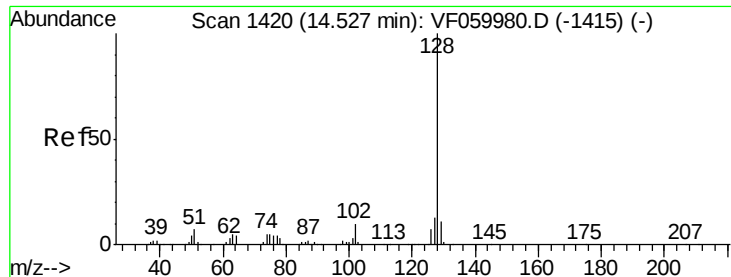


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#95

Naphthalene

Concen: 1.04 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. -0.00 min

Lab File: VF060001.D

Acq: 20 Aug 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0820SBL01

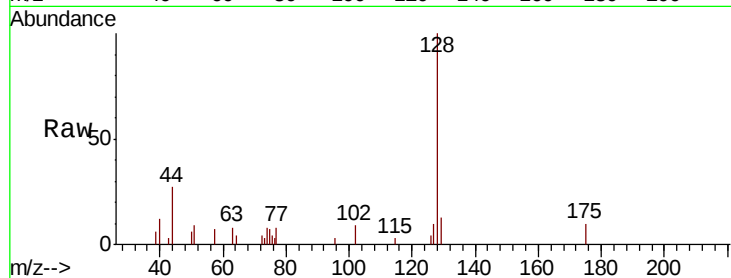
Tot Ion:128 Resp: 4686

Ion Ratio Lower Upper

128 100

127 9.9 10.2 15.2#

129 12.6 9.0 13.4



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

