

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121018\
 Data File : VF060956.D
 Acq On : 10 Dec 2018 16:25
 Operator : VA/AP
 Sample : J6327-02
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 11 04:57:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	282239	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.59	114	437358	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	397270	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	214350	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	111528	33.54	ug/l	-0.04
Spiked Amount			Recovery	=	67.08%	
35) Dibromofluoromethane	4.11	113	138212	39.83	ug/l	-0.04
Spiked Amount			Recovery	=	79.66%	
50) Toluene-d8	7.55	98	355563	34.79	ug/l	-0.04
Spiked Amount			Recovery	=	69.58%	
62) 4-Bromofluorobenzene	11.41	95	169365	36.46	ug/l	-0.03
Spiked Amount			Recovery	=	72.92%	

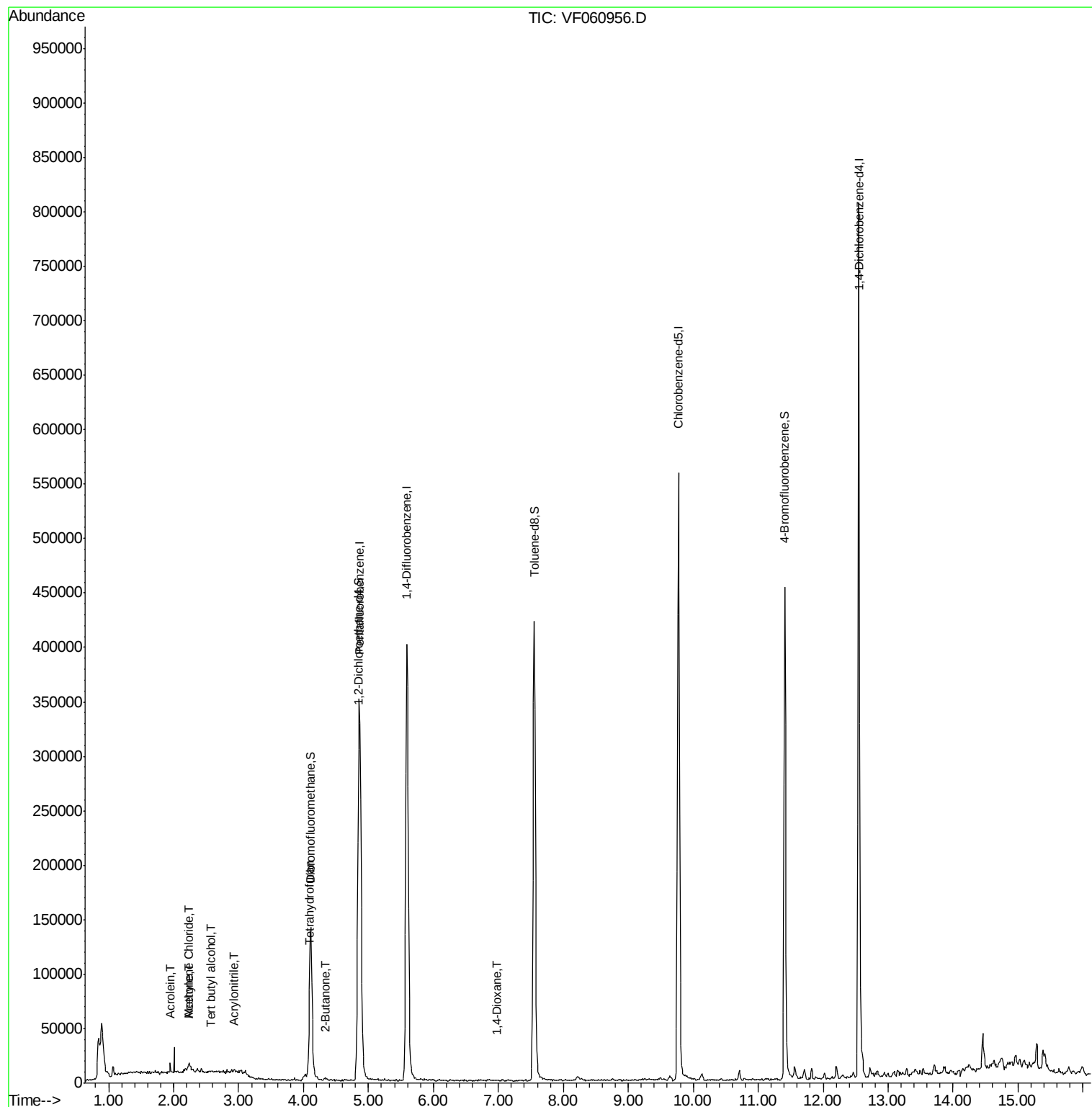
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	675	4.953	ug/l #	55
13) Acrolein	1.95	56	600	4.646	ug/l	87
15) Acrylonitrile	2.92	53	602	1.970	ug/l #	21
16) Acetone	2.23	43	9547	15.571	ug/l	96
18) Methyl Acetate	2.37	43	1106	Below Cal	#	61
20) Methylene Chloride	2.23	84	2481	1.103	ug/l #	77
25) 2-Butanone	4.34	43	3365	3.173	ug/l #	83
29) Tetrahydrofuran	4.08	42	1620	3.604	ug/l #	44
41) Methacrylonitrile	4.75	41	719	Below Cal	#	50
43) Isopropyl Acetate	6.95	43	531	Below Cal	#	49
49) 1,4-Dioxane	6.98	88	61	4.671	ug/l #	3
95) Naphthalene	14.46	128	23679	Below Cal		97

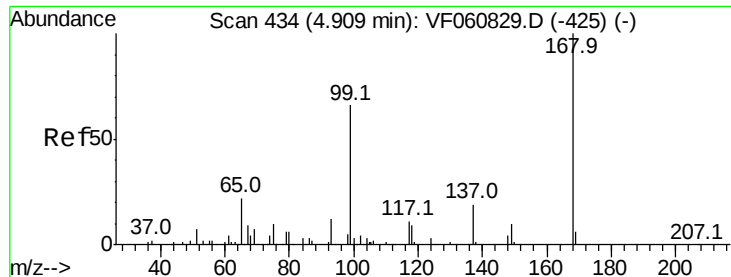
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

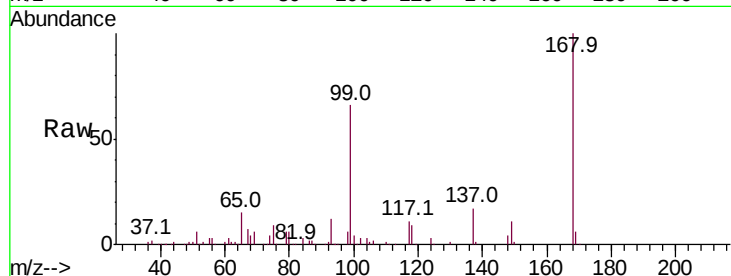
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 282239

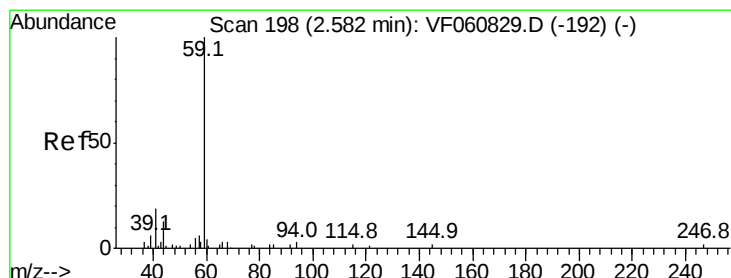
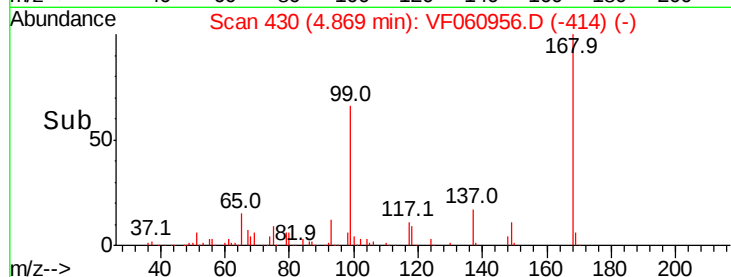
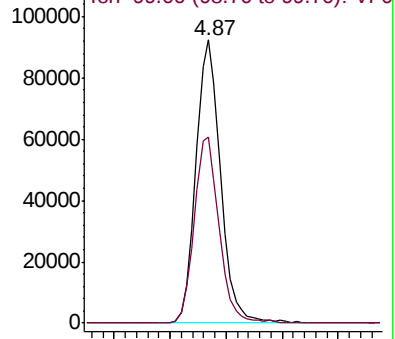
Ion Ratio Lower Upper

168 100

99 65.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 4.953 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF060956.D

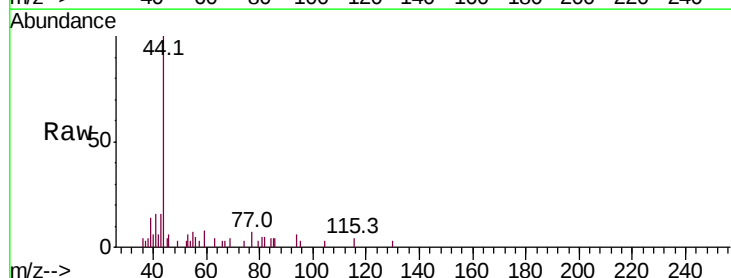
Acq: 10 Dec 2018 16:25

Tgt Ion: 59 Resp: 675

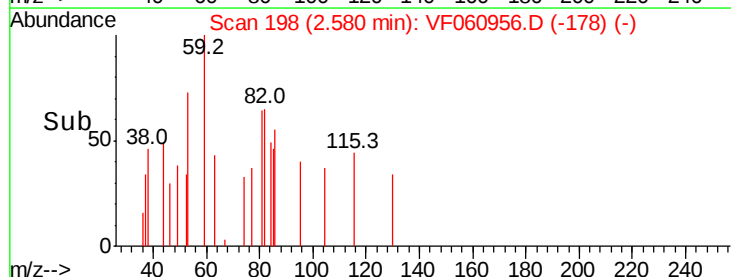
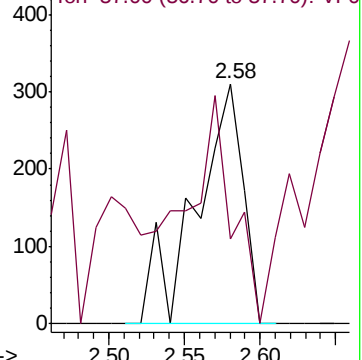
Ion Ratio Lower Upper

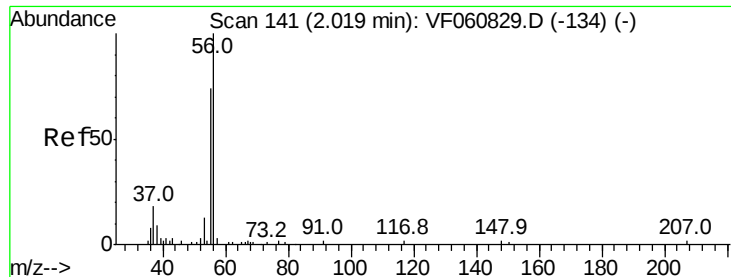
59 100

57 35.2 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 4.646 ug/l

RT: 1.95 min Scan# 134

Delta R.T. -0.07 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

Instrument :

MSVOA_F

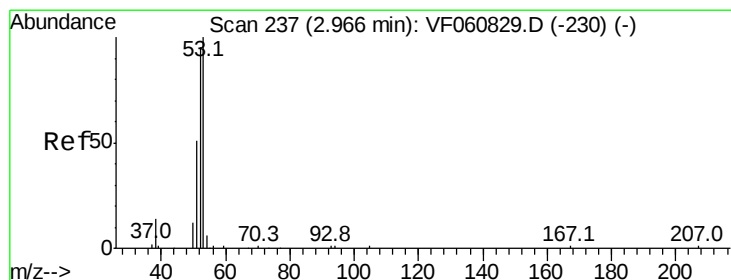
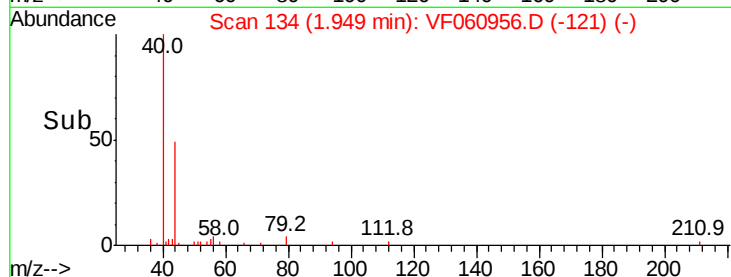
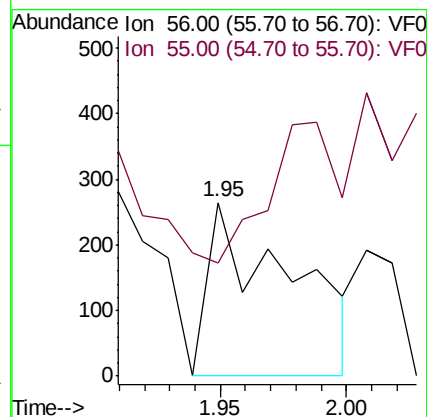
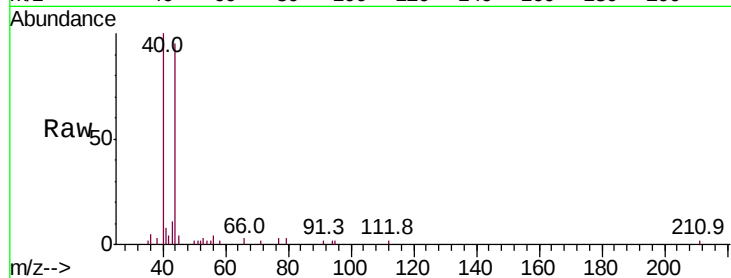
ClientSampleId :

Tot Ion: 56 Resp: 600

Ion Ratio Lower Upper

56 100

55 64.9 61.2 91.8



#15

Acrylonitrile

Concen: 1.970 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.05 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

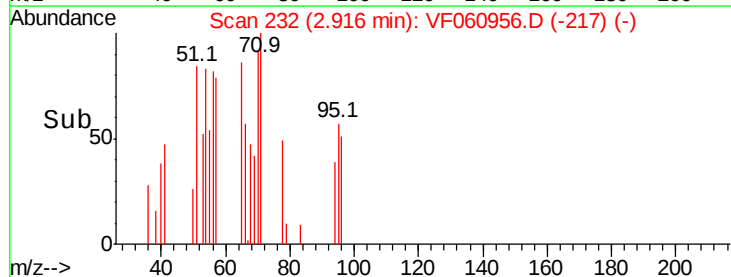
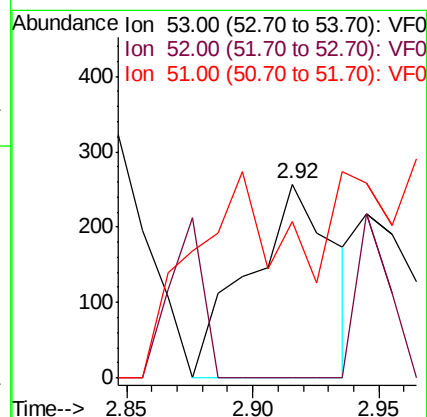
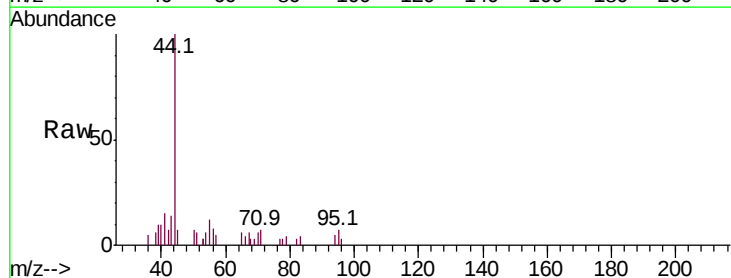
Tgt Ion: 53 Resp: 602

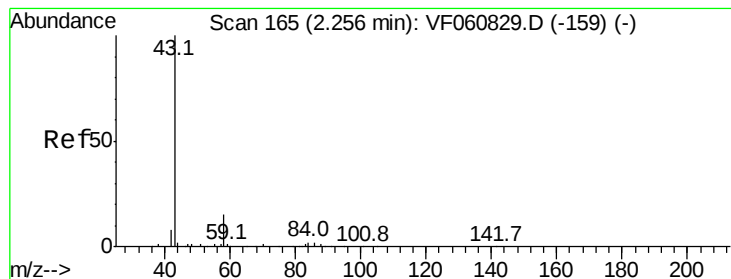
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 80.5 40.7 61.1#





#16

Acetone

Concen: 15.571 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

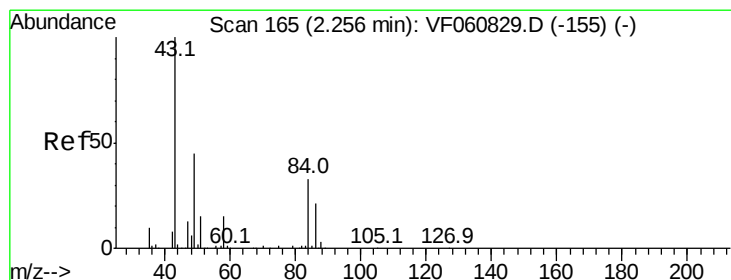
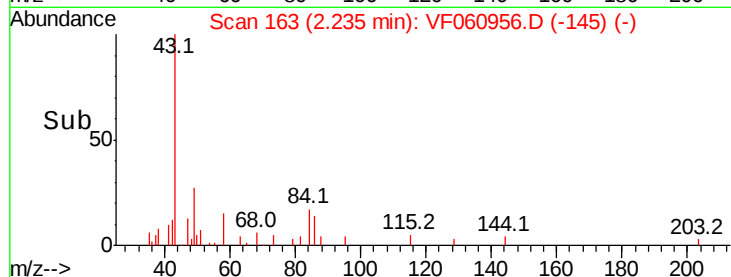
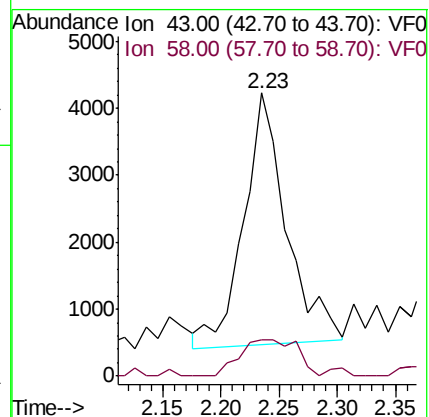
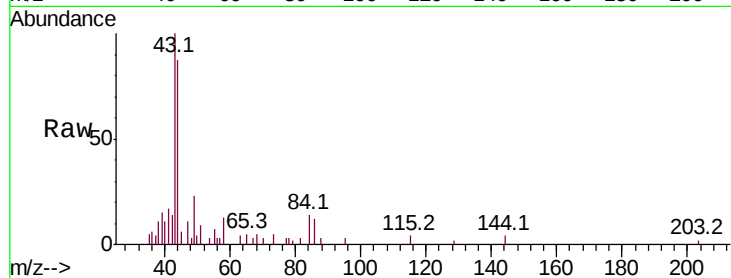
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 9547

Ion Ratio Lower Upper

43 100

58 12.7 11.4 17.2



#20

Methylene Chloride

Concen: 1.103 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

Tgt Ion: 84 Resp: 2481

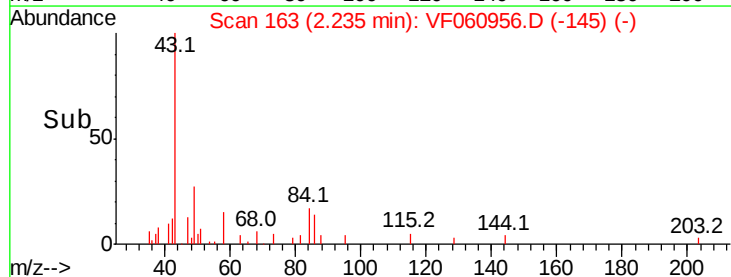
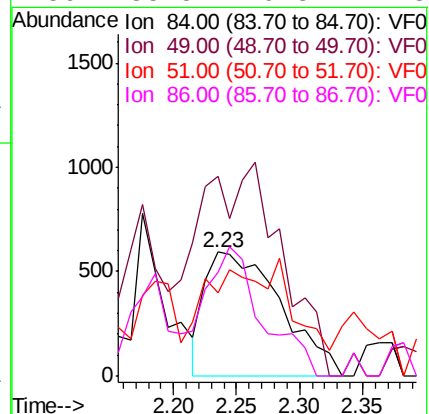
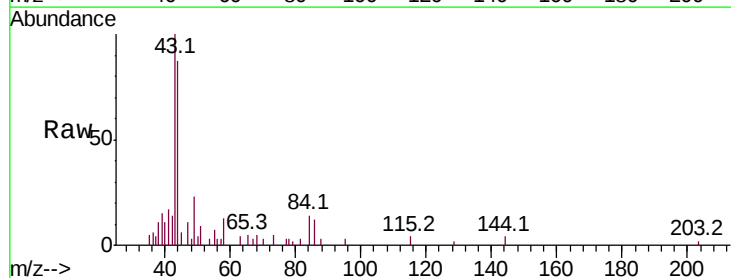
Ion Ratio Lower Upper

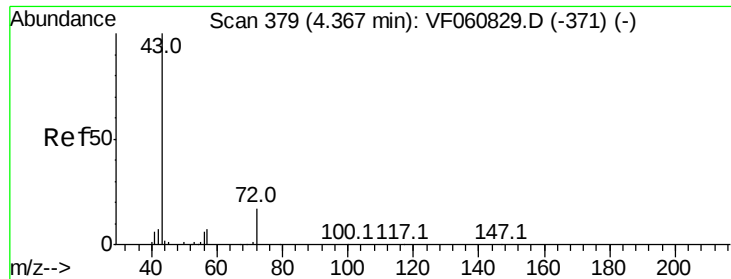
84 100

49 161.3 111.3 166.9

51 67.3 38.0 57.0#

86 83.8 49.8 74.8#





#25

2-Butanone

Concen: 3.173 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

Instrument :

MSVOA_F

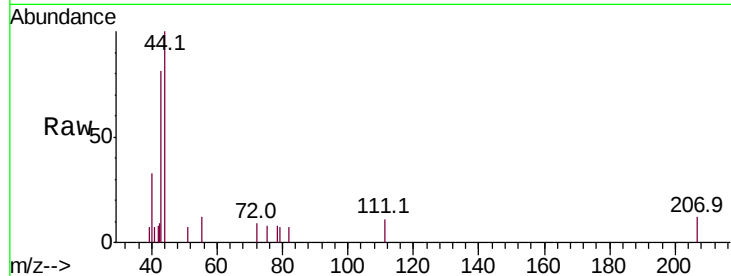
ClientSampleId :

Tot Ion: 43 Resp: 3365

Ion Ratio Lower Upper

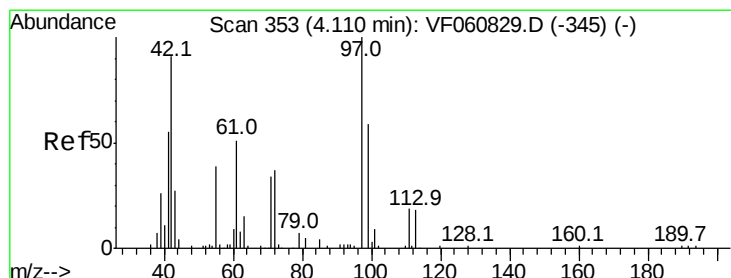
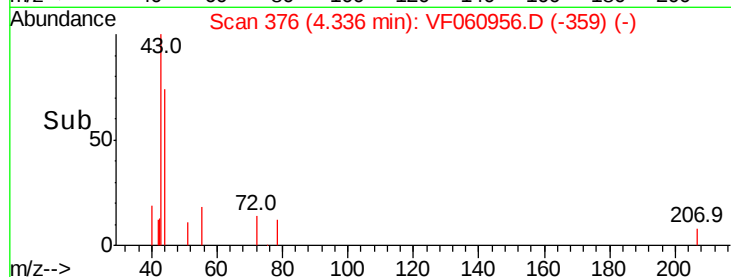
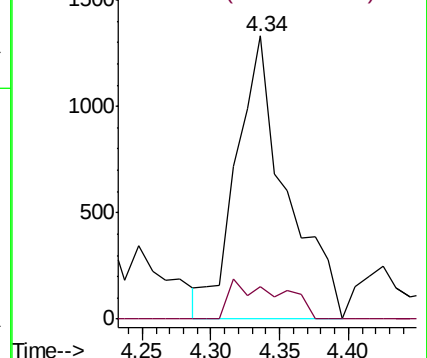
43 100

72 11.5 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 3.604 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

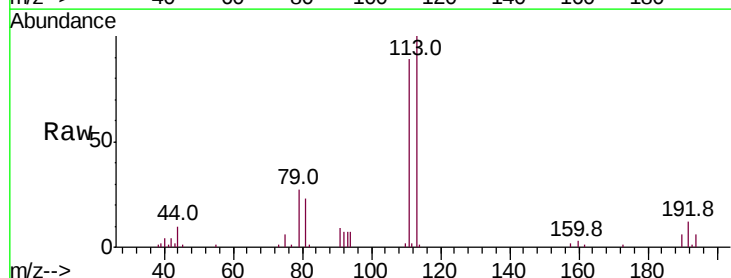
Tgt Ion: 42 Resp: 1620

Ion Ratio Lower Upper

42 100

72 7.9 31.9 47.9#

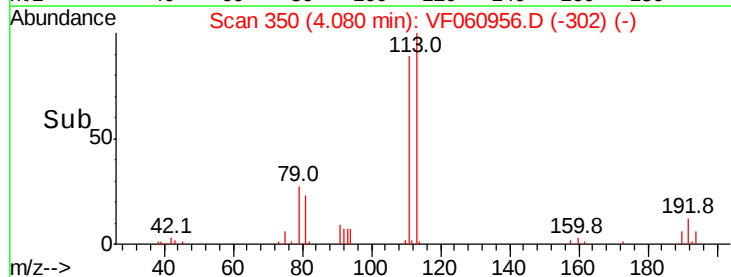
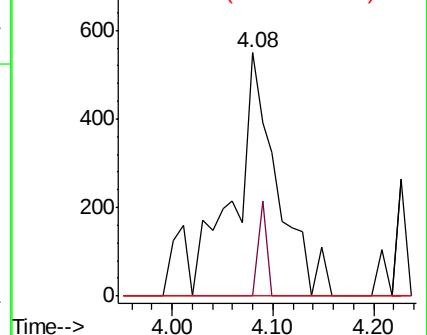
71 0.0 28.7 43.1#

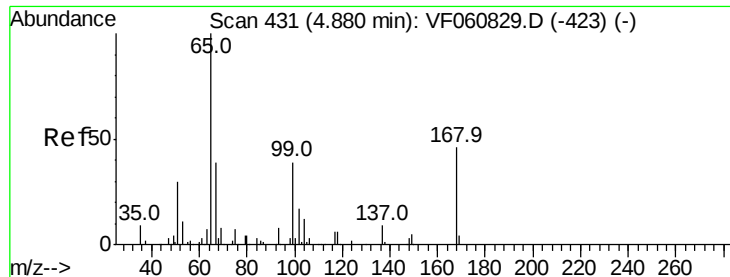


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 33.544 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

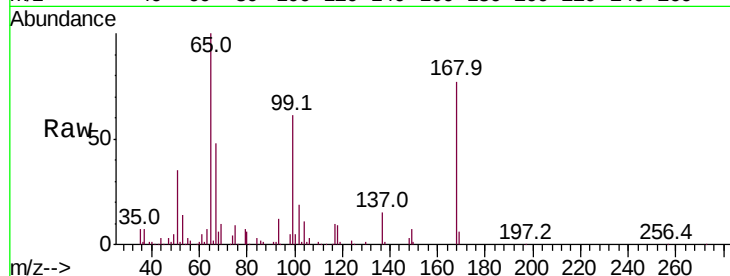
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 111528

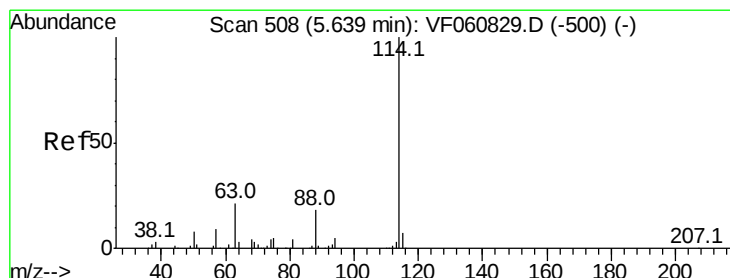
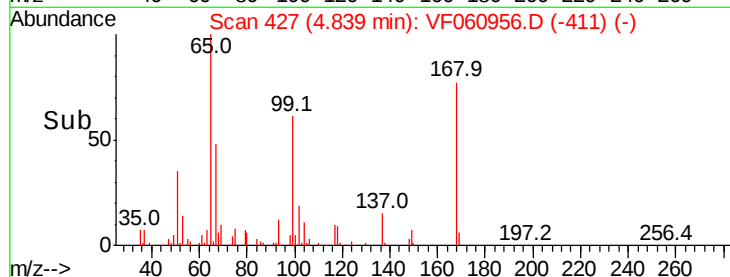
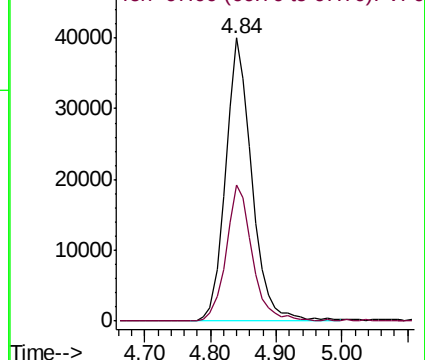
Ion Ratio Lower Upper

65 100

67 47.9 0.0 96.4



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: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

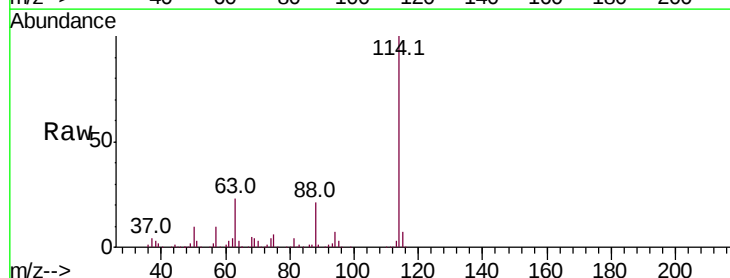
Tgt Ion: 114 Resp: 437358

Ion Ratio Lower Upper

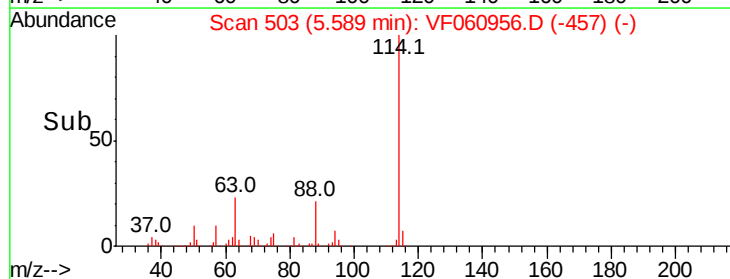
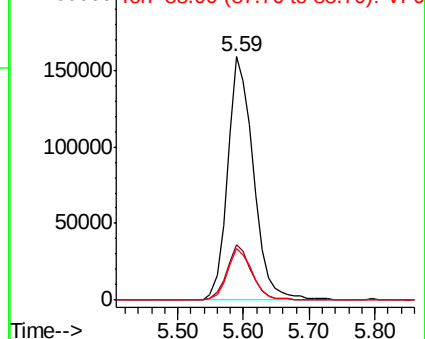
114 100

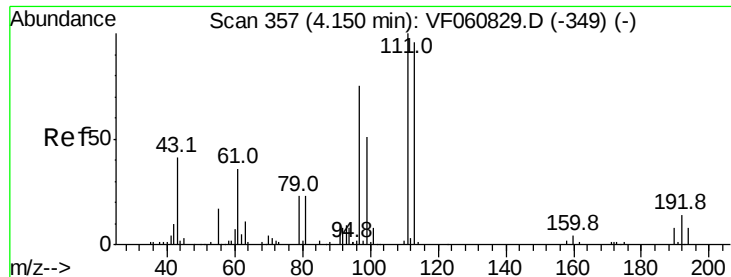
63 22.7 0.0 41.6

88 21.1 0.0 36.6



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: 39.834 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

Instrument :
MSVOA_F
ClientSampled :

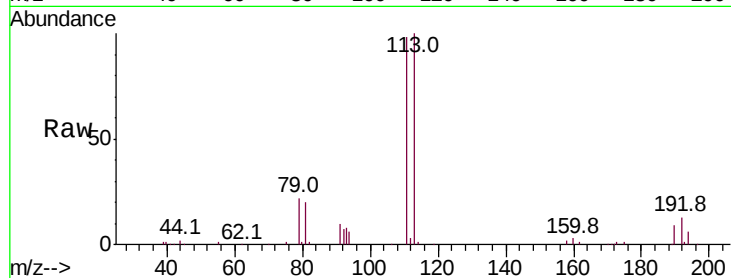
Tot Ion:113 Resp: 138212

Ion Ratio Lower Upper

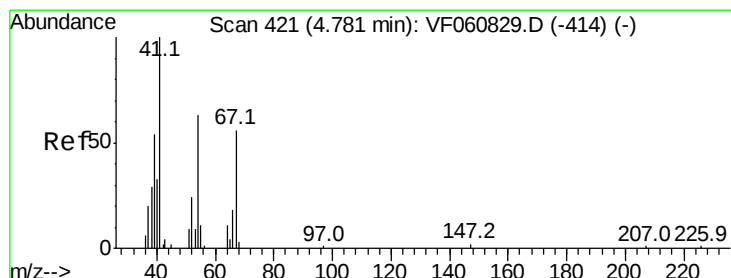
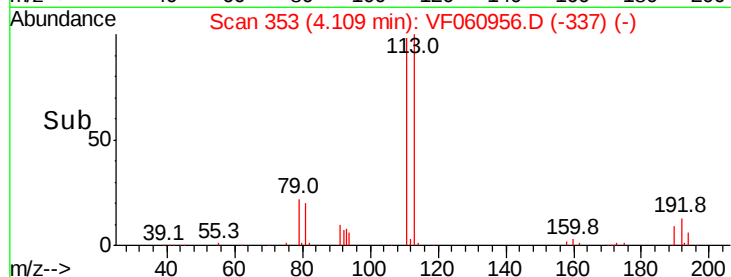
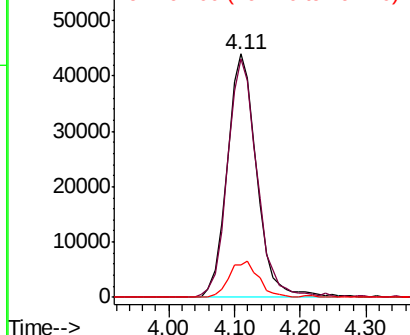
113 100

111 98.0 83.0 124.6

192 13.3 12.3 18.5



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.75 min Scan# 418

Delta R.T. -0.03 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

Tgt Ion: 41 Resp: 719

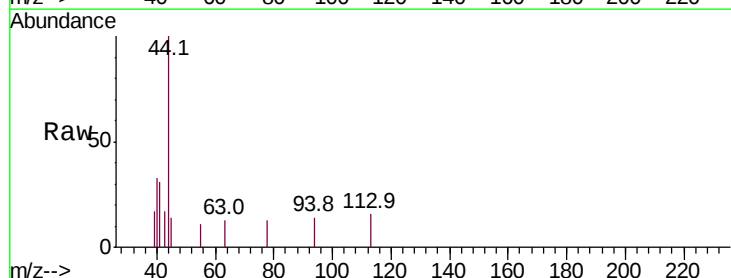
Ion Ratio Lower Upper

41 100

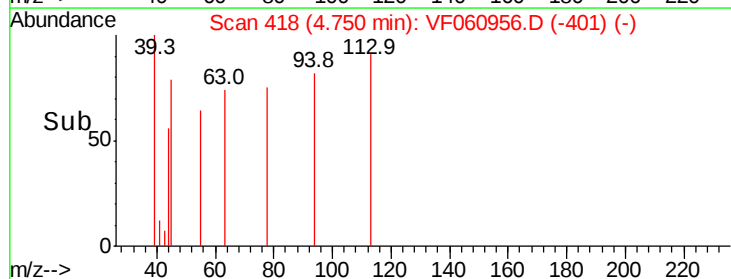
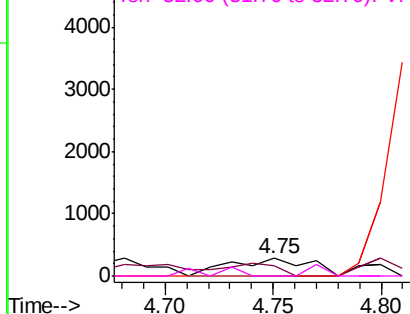
39 55.1 53.0 79.6

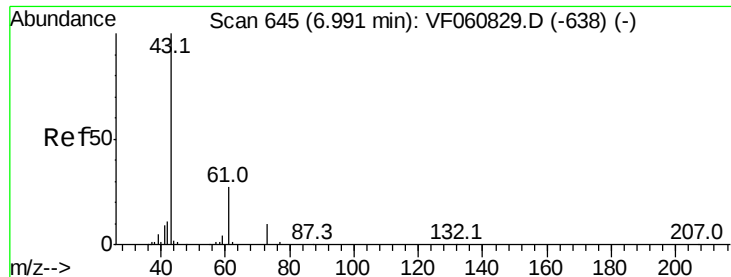
67 0.0 43.8 65.6#

52 0.0 37.8 56.8#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0



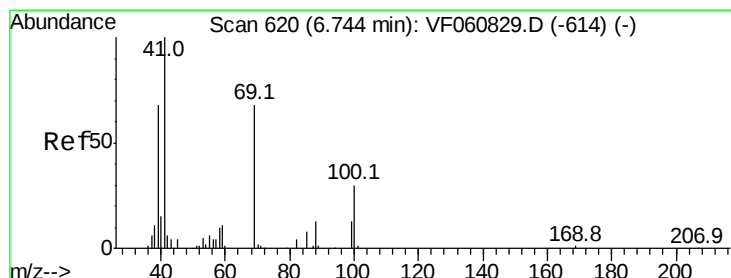
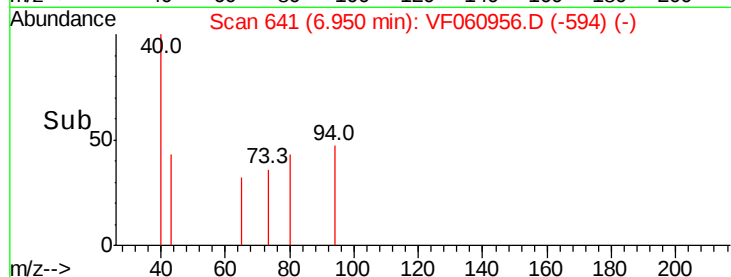
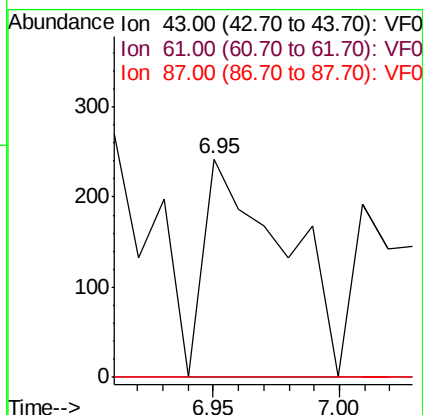
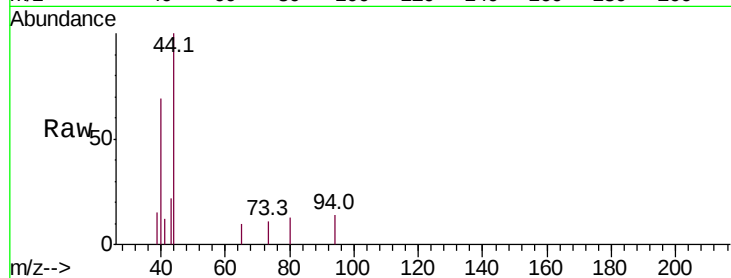


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.95 min Scan# 641
 Delta R.T. -0.04 min
 Lab File: VF060956.D
 Acq: 10 Dec 2018 16:25

Instrument :
 MSVOA_F
 ClientSampled :

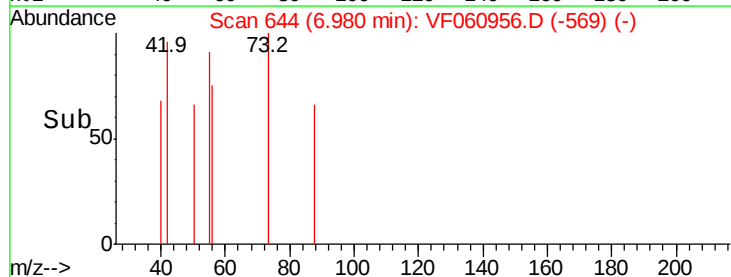
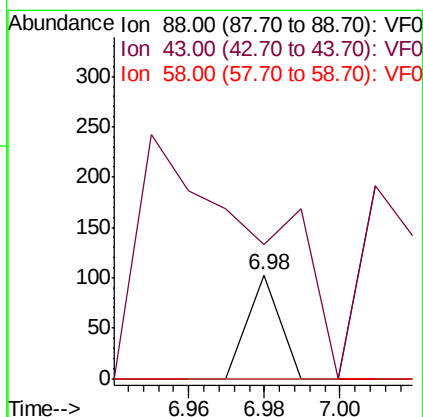
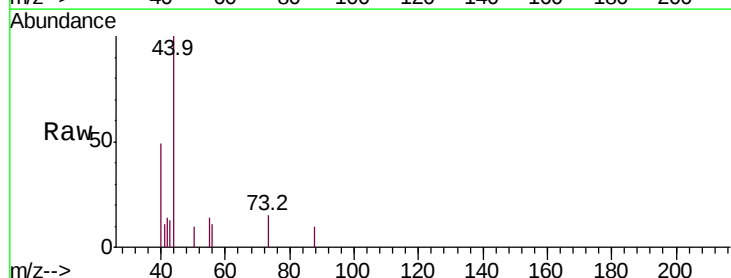
Tot Ion: 43 Resp: 531
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

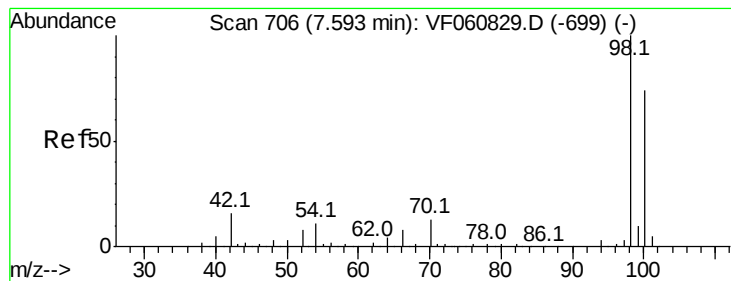


#49

1,4-Dioxane
 Concen: 4.671 ug/l
 RT: 6.98 min Scan# 644
 Delta R.T. 0.24 min
 Lab File: VF060956.D
 Acq: 10 Dec 2018 16:25

Tgt Ion: 88 Resp: 61
 Ion Ratio Lower Upper
 88 100
 43 129.1 42.0 63.0#
 58 0.0 61.8 92.8#





#50

Toluene-d8

Concen: 34.789 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

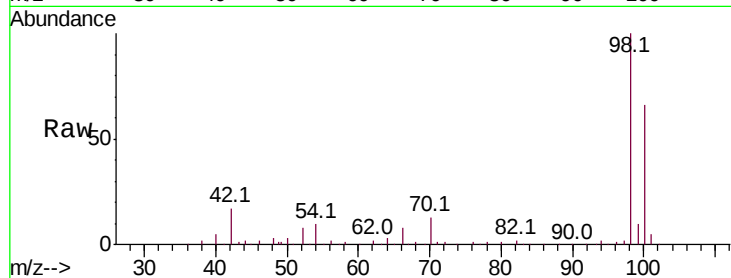
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 355563

Ion Ratio Lower Upper

98 100

100 66.1 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

150000

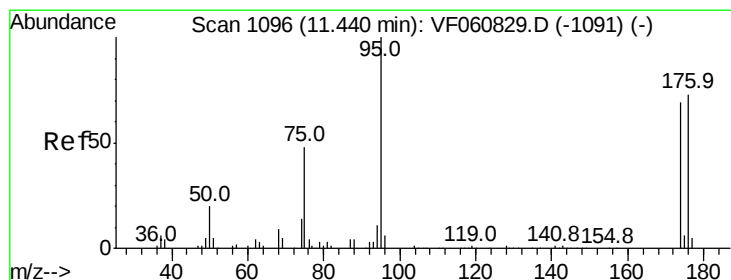
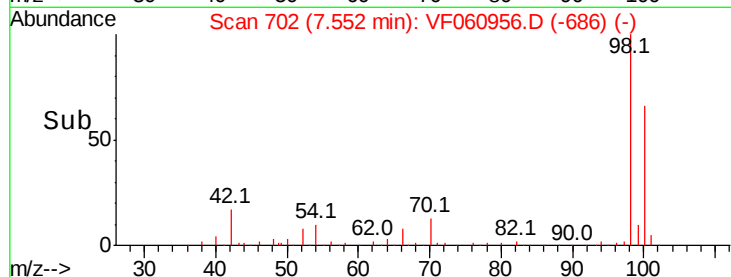
100000

50000

0

7.40 7.50 7.60 7.70

Time-->



#62

4-Bromofluorobenzene

Concen: 36.461 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060956.D

Acq: 10 Dec 2018 16:25

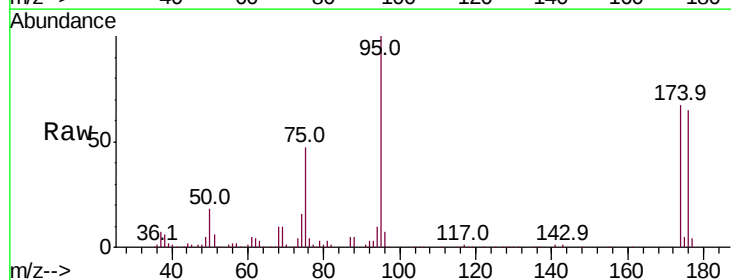
Tgt Ion: 95 Resp: 169365

Ion Ratio Lower Upper

95 100

174 67.1 0.0 138.2

176 64.6 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

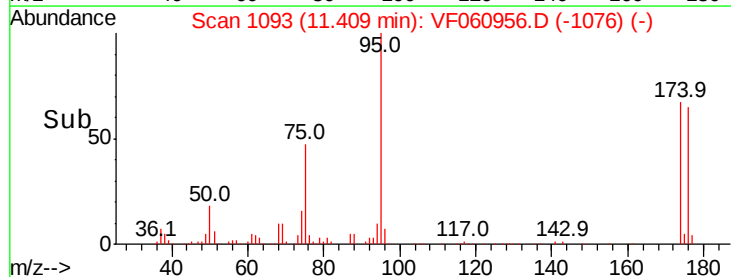
100000

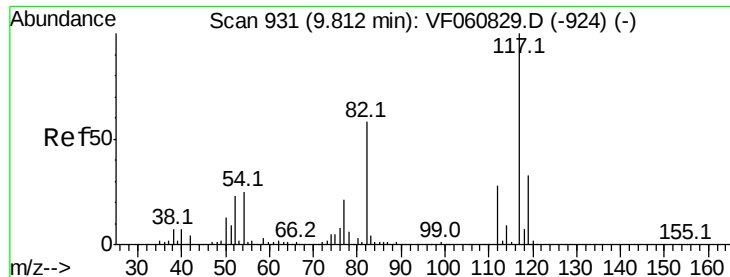
50000

0

11.30 11.40 11.50

Time-->

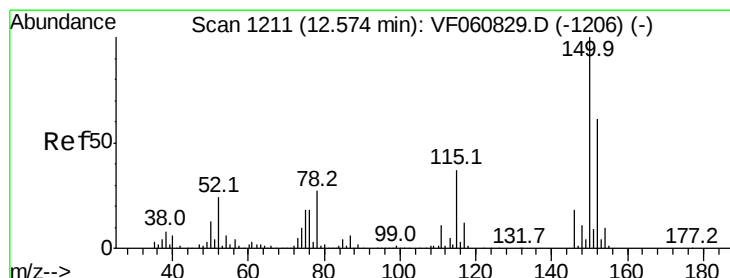
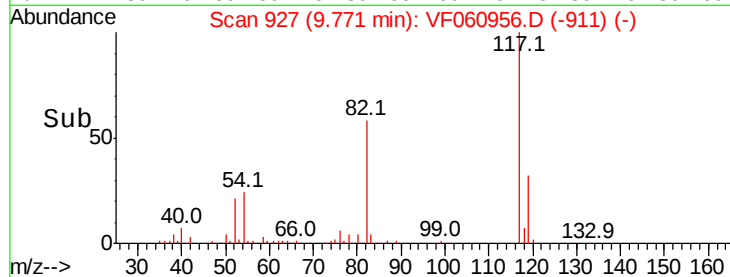
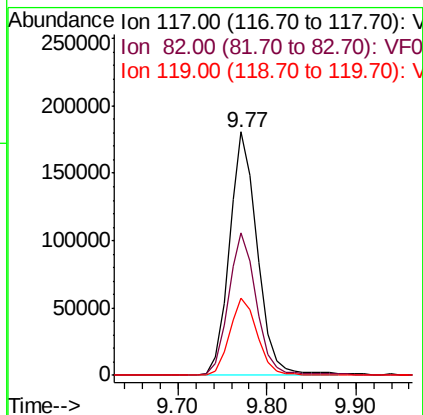
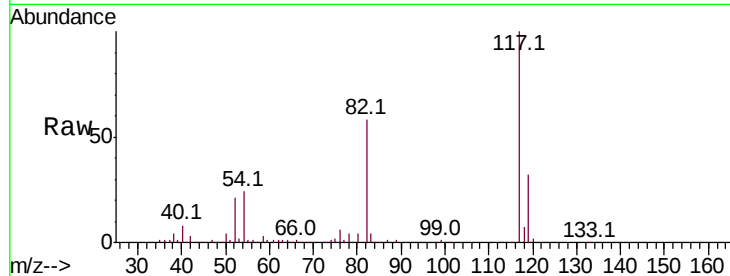




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060956.D
Acq: 10 Dec 2018 16:25

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117 Resp: 397270
Ion Ratio Lower Upper
117 100
82 58.3 46.6 69.8
119 32.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060956.D
Acq: 10 Dec 2018 16:25

Tgt Ion:152 Resp: 214350
Ion Ratio Lower Upper
152 100
115 56.0 30.1 90.5
150 153.0 0.0 327.6

