

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072518\
 Data File : VF059662.D
 Acq On : 25 Jul 2018 17:16
 Operator : VA/AP
 Sample : J4106-01
 Misc : 5.03g/5mL/MSVOA F/SOIL
 ALS Vial : 87 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 MOLA-BOULEVARD

Quant Time: Jul 26 03:44:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 02:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.02
34) 1,4-Difluorobenzene	5.91	114	84	50.00	ug/l	0.16
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.91
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.62

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	63	0.00	ug/l	-0.14
Spiked Amount 50.000			Recovery =	0.00%		
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount 50.000			Recovery =	0.00%		
50) Toluene-d8	7.78	98	81	43.96	ug/l	0.09
Spiked Amount 50.000			Recovery =	87.92%		
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount 50.000			Recovery =	0.00%		

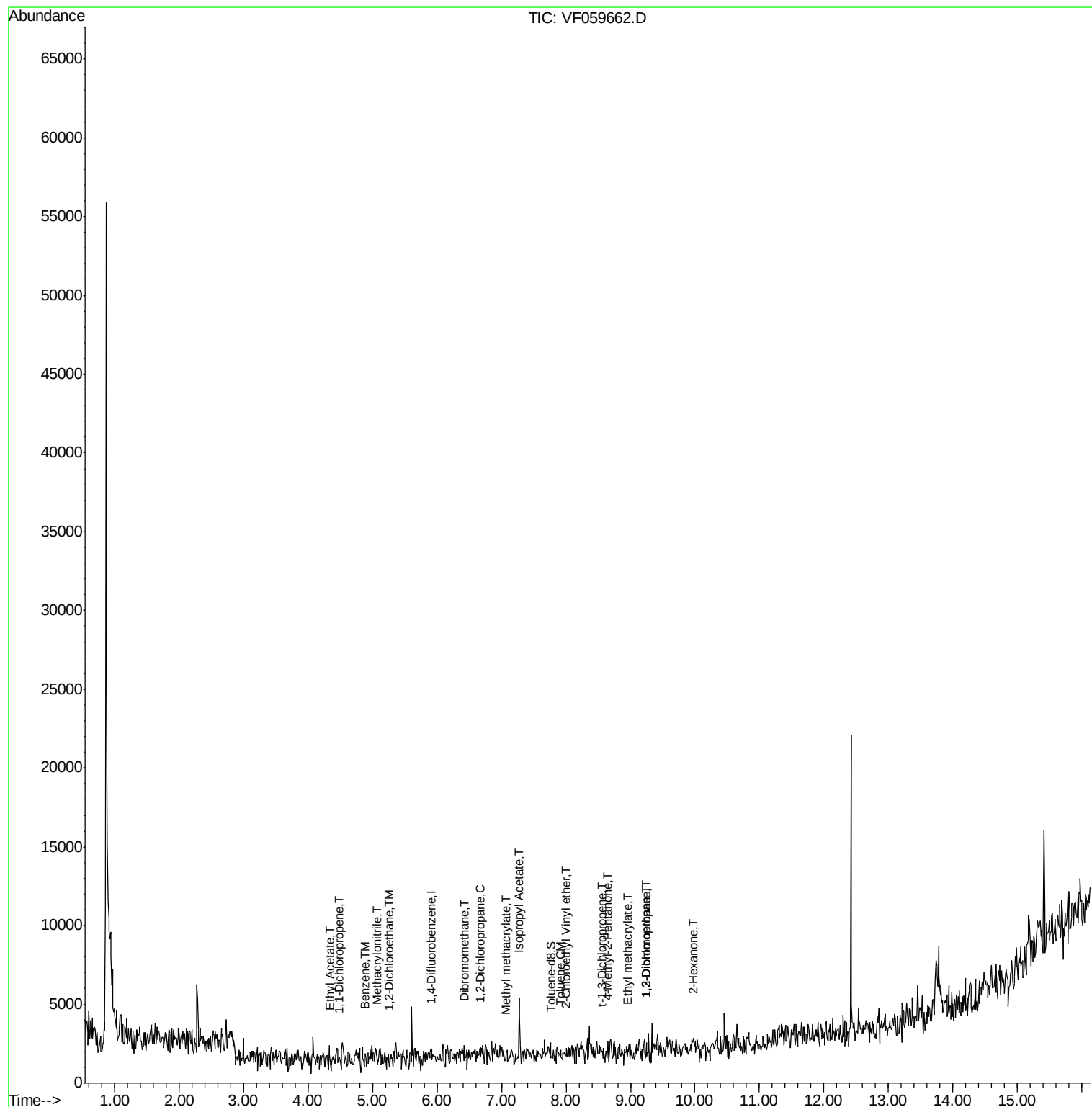
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.47	75	77	89.47	ug/l #	45
37) Ethyl Acetate	4.34	43	112	412.30	ug/l #	1
40) Benzene	4.89	78	82	51.51	ug/l #	51
41) Methacrylonitrile	5.06	41	65	403.78	ug/l #	47
42) 1,2-Dichloroethane	5.24	62	137	145.23	ug/l	84
43) Isopropyl Acetate	7.27	43	60	158.52	ug/l #	50
45) 1,2-Dichloropropane	6.68	63	77	191.03	ug/l #	43
46) Dibromomethane	6.42	93	62	182.10	ug/l #	3
48) Methyl methacrylate	7.06	41	76	272.76	ug/l #	1
51) 4-Methyl-2-Pentanone	8.63	43	88	316.33	ug/l #	41
52) Toluene	7.92	92	71	70.55	ug/l #	1
53) t-1,3-Dichloropropene	8.56	75	63	79.42	ug/l #	43
56) Ethyl methacrylate	8.96	69	69	181.85	ug/l #	2
57) 1,3-Dichloropropane	9.23	76	69	113.54	ug/l #	43
58) 2-Chloroethyl Vinyl ether	7.99	63	128	2628.12	ug/l	100
59) 2-Hexanone	9.98	43	134	630.76	ug/l #	29
61) 1,2-Dibromoethane	9.23	107	74	170.73	ug/l #	1

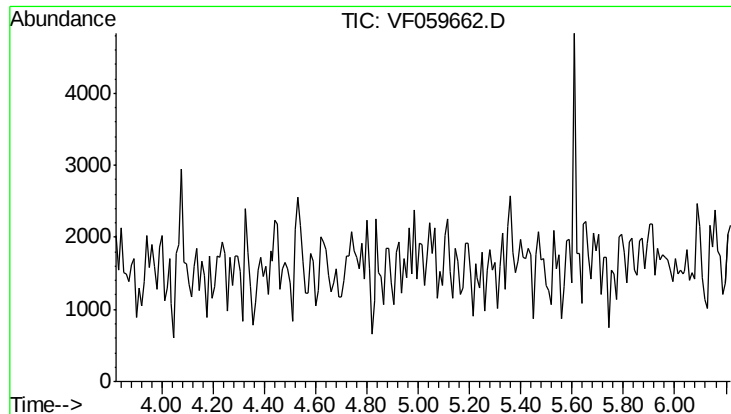
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.00 ug/l

Expected RT: 5.02 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Tot Ion: 168

Sig Exp Ratio

168 100

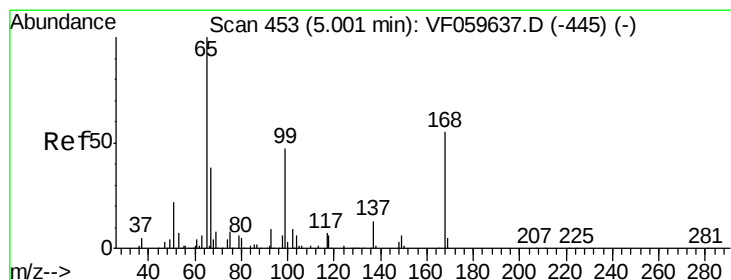
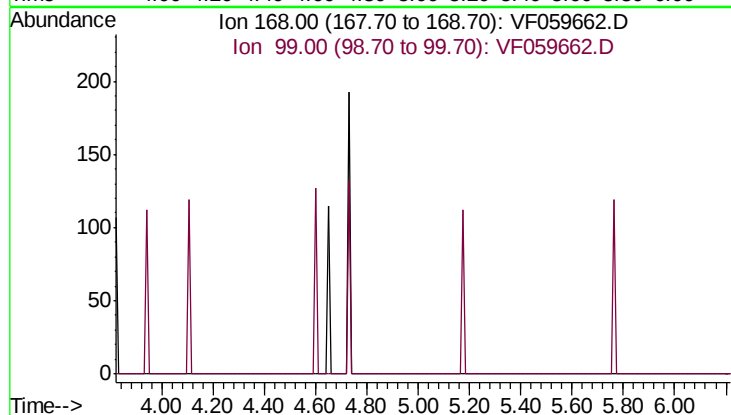
99 74.4

Instrument :

MSVOA_F

ClientSampleId :

MOLA-BOULEVARD



#33

1,2-Dichloroethane-d4

Concen: 0.00 ug/l

RT: 4.86 min Scan# 439

Delta R.T. -0.14 min

Lab File: VF059662.D

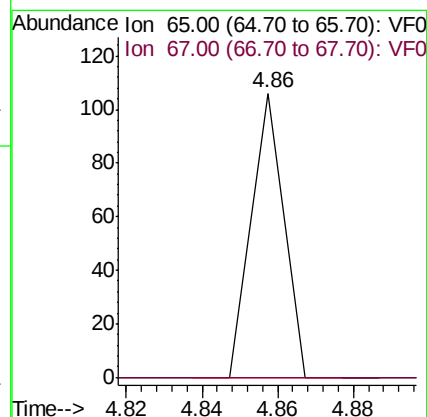
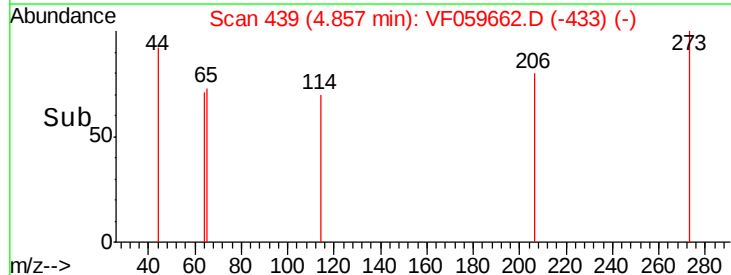
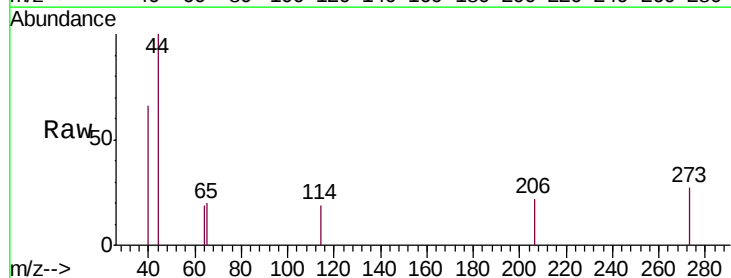
Acq: 25 Jul 2018 17:16

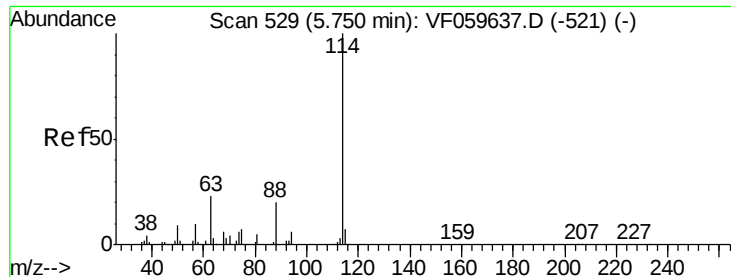
Tgt Ion: 65 Resp: 63

Ion Ratio Lower Upper

65 100

67 0.0 0.0 86.6

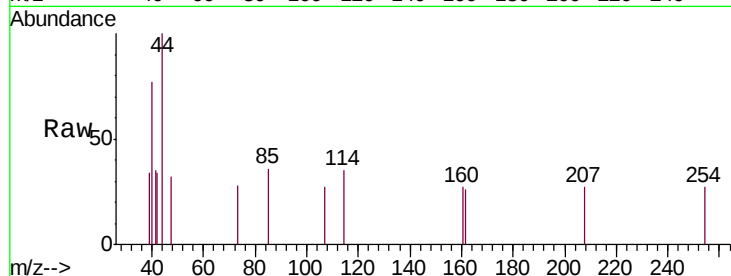




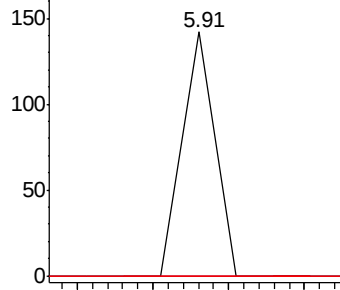
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 5.91 min Scan# 546
Delta R.T. 0.16 min
Lab File: VF059662.D
Acq: 25 Jul 2018 17:16

Instrument :
MSVOA_F
ClientSampleId :
MOLA-BOULEVARD

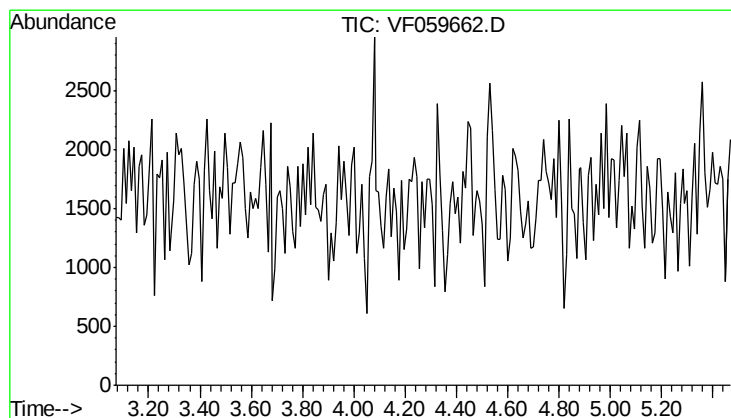
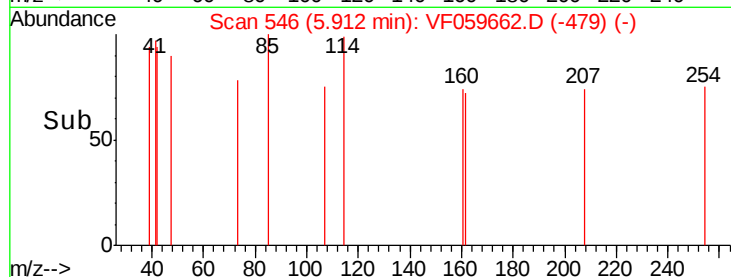
Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	45.6
88	0.0	0.0	40.8



Abundance Ion 114.00 (113.70 to 114.70): VF059662.D
Ion 63.00 (62.70 to 63.70): VF059662.D
Ion 88.00 (87.70 to 88.70): VF059662.D



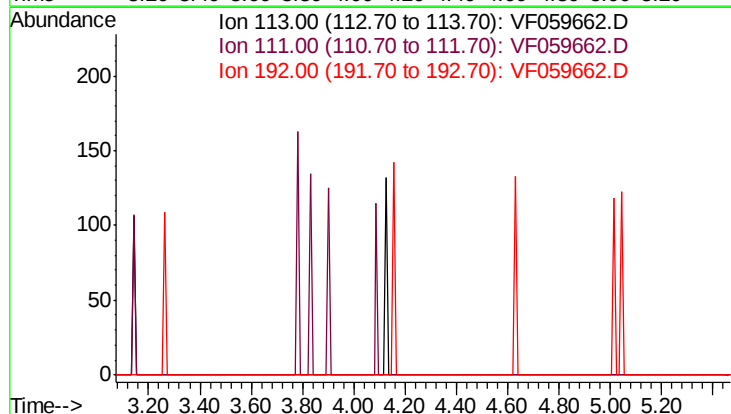
Time-->

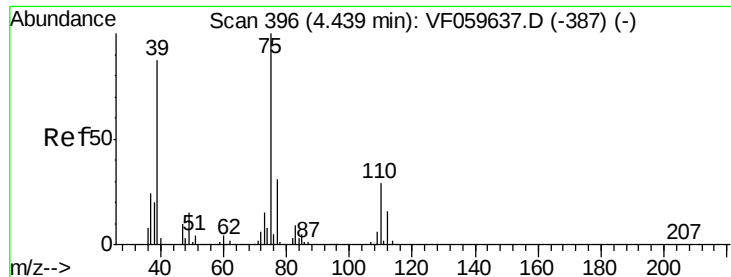


#35
Dibromofluoromethane
Concen: 0.00 ug/l
Expected RT: 4.27 min

Lab File: VF059662.D
Acq: 25 Jul 2018 17:16

Tgt Ion	Exp Ratio
113	100
111	99.1
192	16.8





#36

1,1-Dichloropropene

Concen: 89.47 ug/l

RT: 4.47 min Scan# 400

Delta R.T. 0.03 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Instrument :

MSVOA_F

ClientSampleId :

MOLA-BOULEVARD

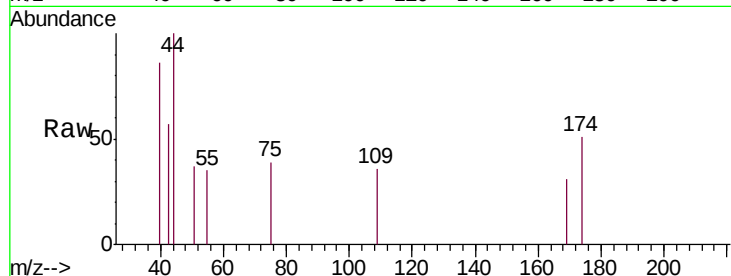
Tot Ion: 75 Resp: 77

Ion Ratio Lower Upper

75 100

110 0.0 14.6 43.8#

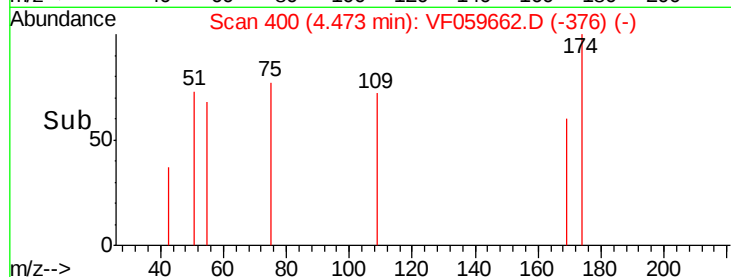
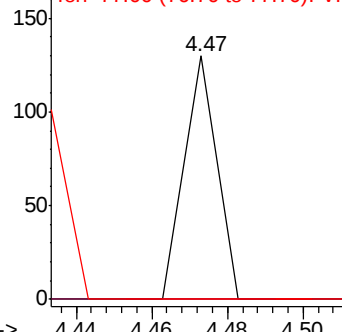
77 0.0 24.4 36.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 412.30 ug/l

RT: 4.34 min Scan# 387

Delta R.T. 0.08 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

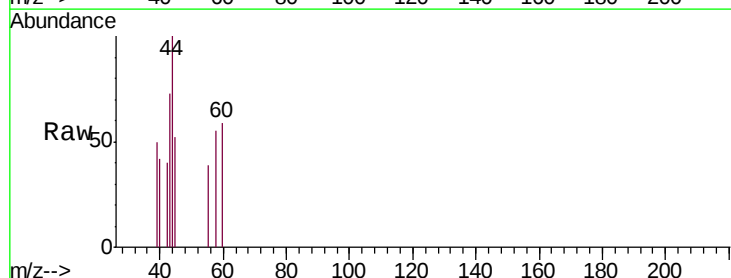
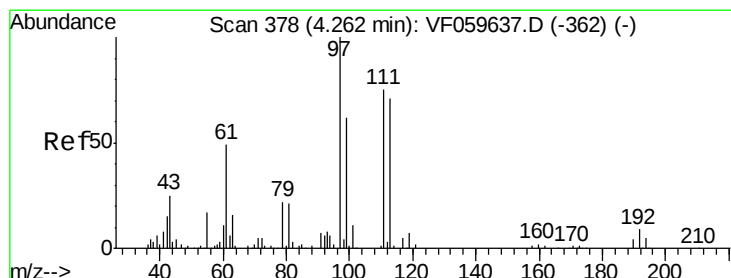
Tgt Ion: 43 Resp: 112

Ion Ratio Lower Upper

43 100

61 0.0 156.6 234.8#

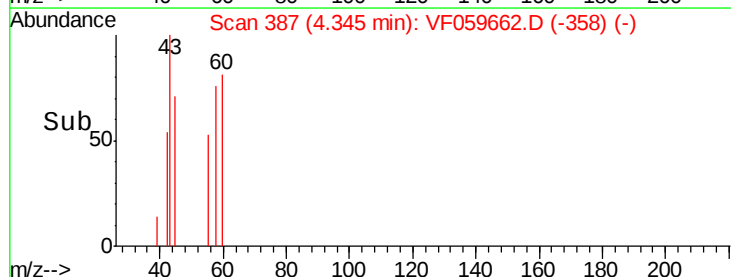
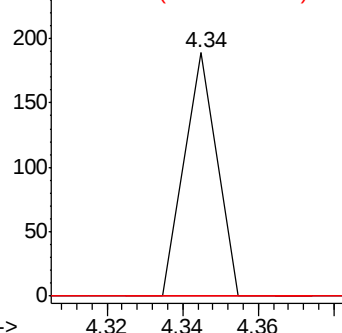
70 0.0 7.3 10.9#

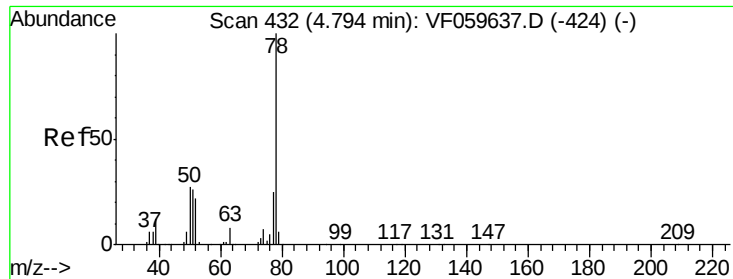


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#40

Benzene

Concen: 51.51 ug/l

RT: 4.89 min Scan# 442

Delta R.T. 0.09 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Instrument :

MSVOA_F

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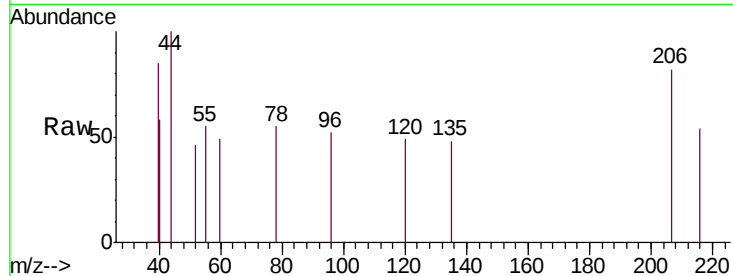
MOLA-BOULEVARD

Tot Ion: 78 Resp: 82

Ion Ratio Lower Upper

78 100

77 0.0 19.8 29.6#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

4.89

150

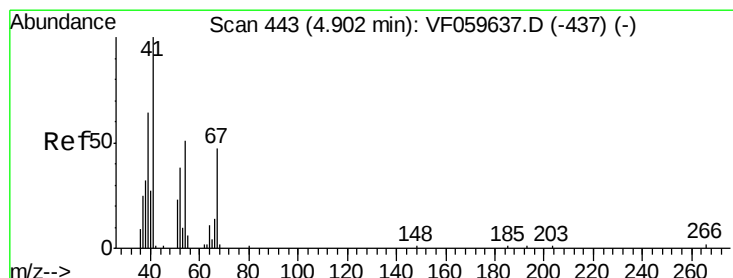
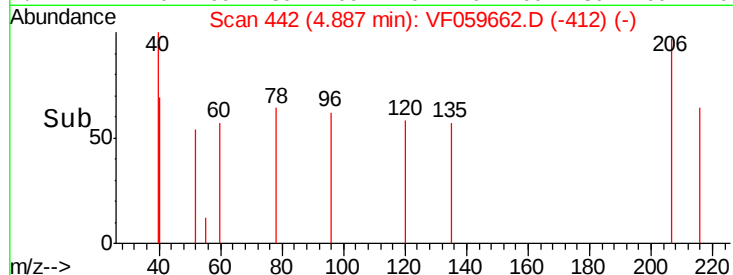
100

50

0

4.86 4.88 4.90 4.92

Time-->



#41

Methacrylonitrile

Concen: 403.78 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.16 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Tgt Ion: 41 Resp: 65

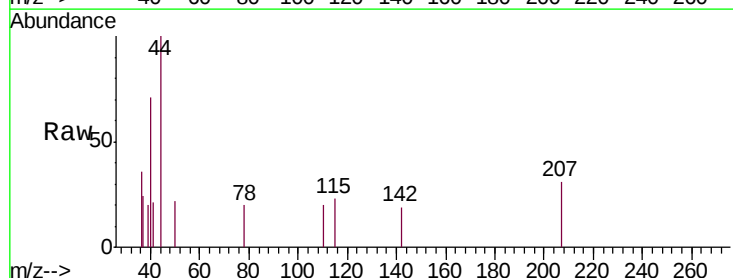
Ion Ratio Lower Upper

41 100

39 93.6 56.9 85.3#

67 0.0 36.6 54.8#

52 0.0 42.6 63.8#



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

250

200

150

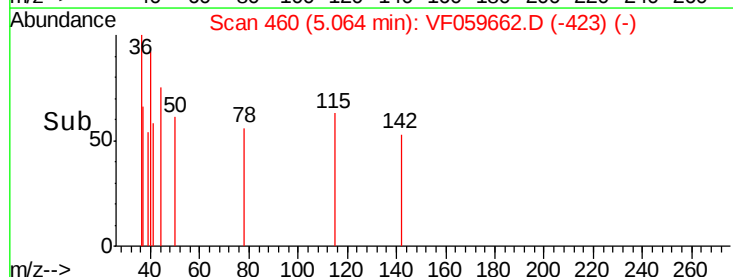
100

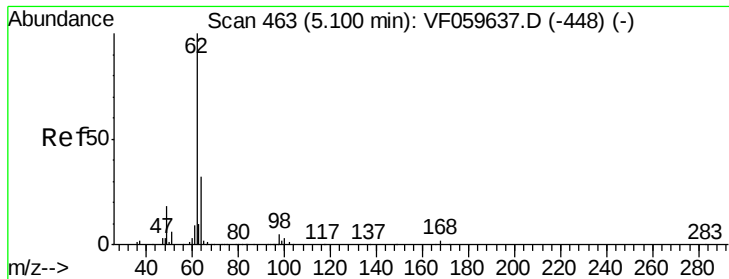
50

0

5.05 5.06 5.07 5.08

Time-->





#42

1,2-Dichloroethane

Concen: 145.23 ug/l

RT: 5.24 min Scan# 478

Delta R.T. 0.14 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Instrument :

MSVOA_F

ClientSampleId :

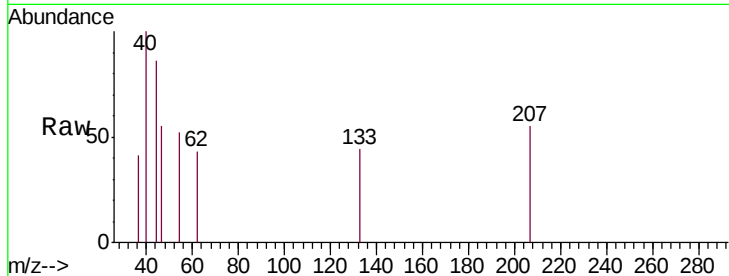
MOLA-BOULEVARD

Tot Ion: 62 Resp: 137

Ion Ratio Lower Upper

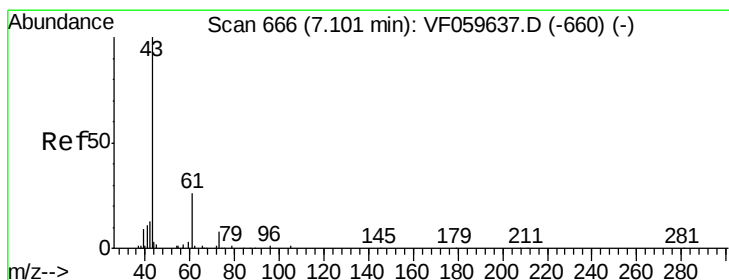
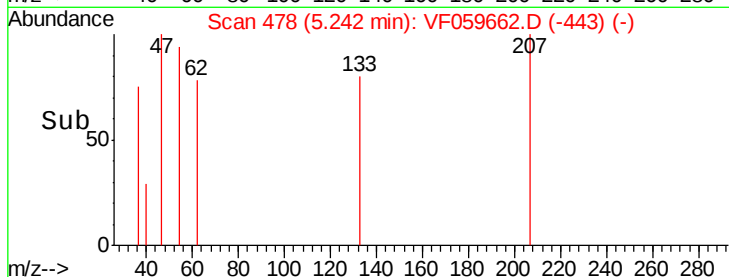
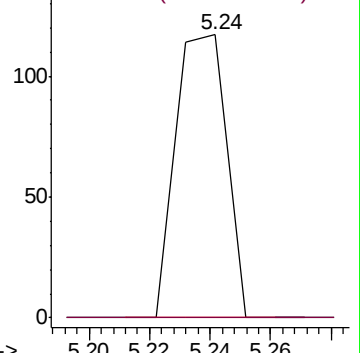
62 100

98 0.0 0.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#43

Isopropyl Acetate

Concen: 158.52 ug/l

RT: 7.27 min Scan# 684

Delta R.T. 0.17 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

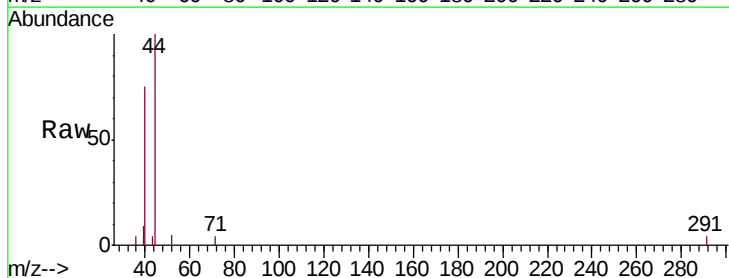
Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#

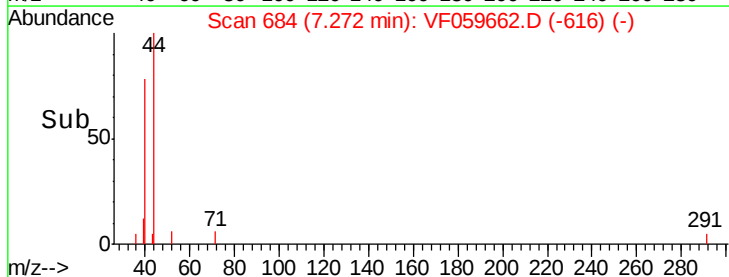
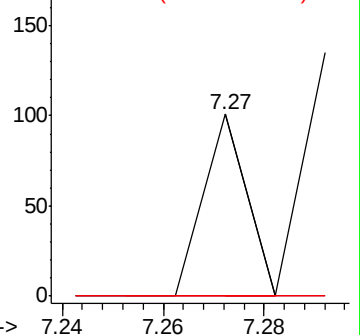
87 0.0 0.4 0.6#

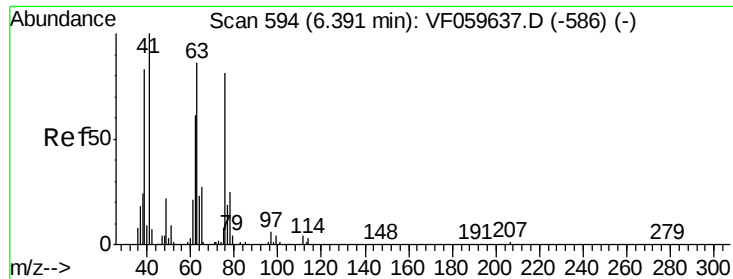


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#45

1,2-Dichloropropane

Concen: 191.03 ug/l

RT: 6.68 min Scan# 624

Delta R.T. 0.29 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Instrument :

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ClientSampleId :

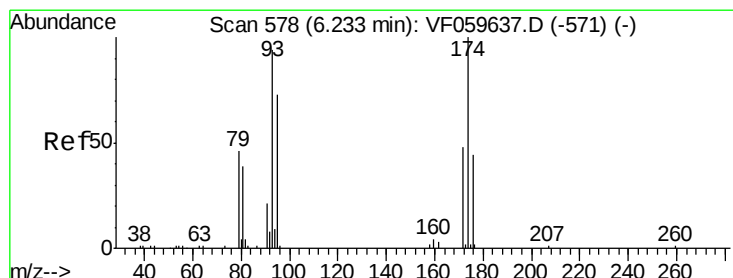
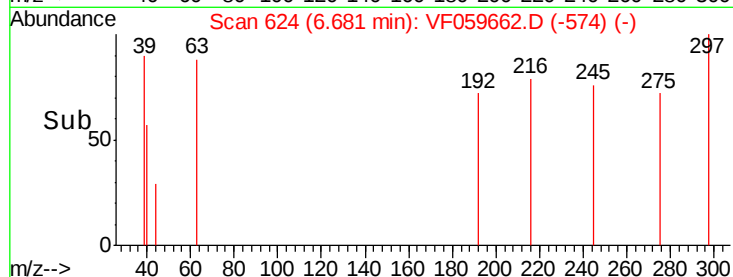
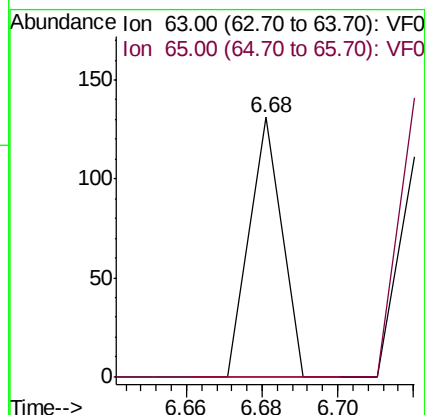
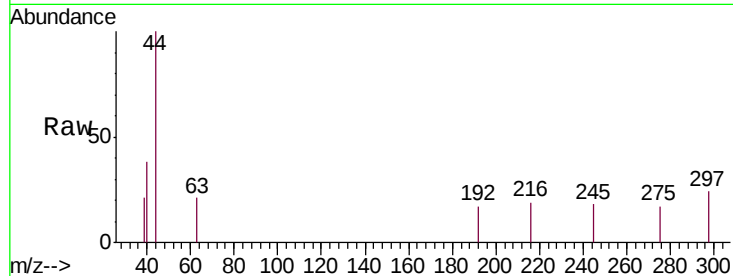
MOLA-BOULEVARD

Tot Ion: 63 Resp: 77

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



#46

Dibromomethane

Concen: 182.10 ug/l

RT: 6.42 min Scan# 598

Delta R.T. 0.19 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

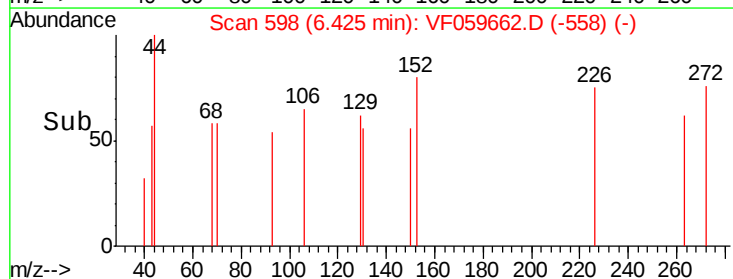
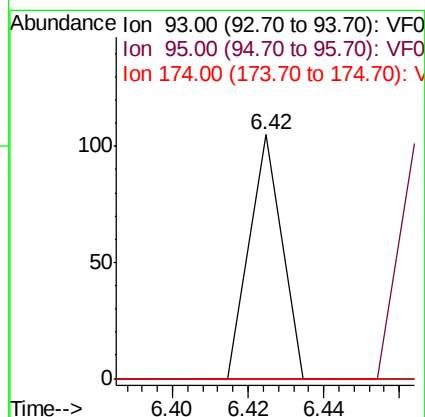
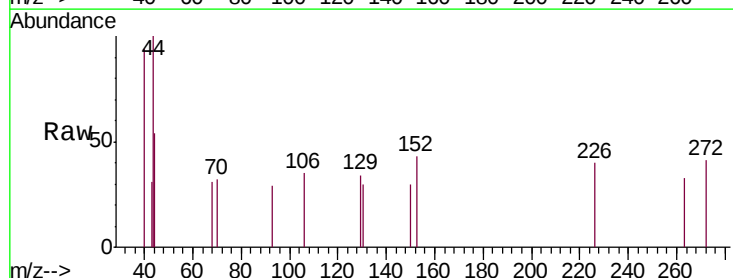
Tgt Ion: 93 Resp: 62

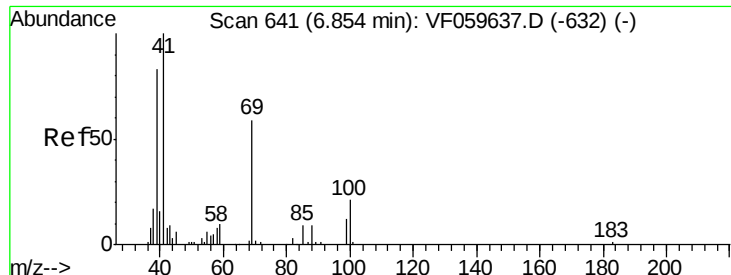
Ion Ratio Lower Upper

93 100

95 0.0 63.1 94.7#

174 0.0 85.3 127.9#





#48

Methyl methacrylate

Concen: 272.76 ug/l

RT: 7.06 min Scan# 662

Delta R.T. 0.20 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Instrument :

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MOLA-BOULEVARD

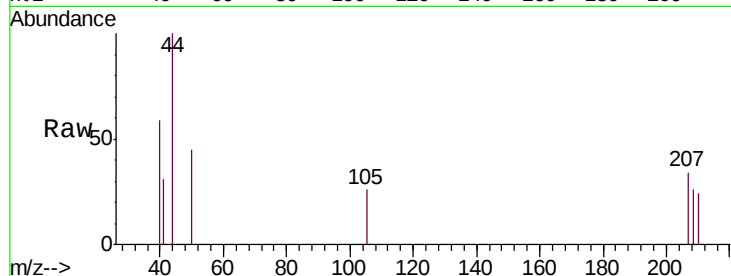
Tot Ion: 41 Resp: 76

Ion Ratio Lower Upper

41 100

69 0.0 47.5 71.3#

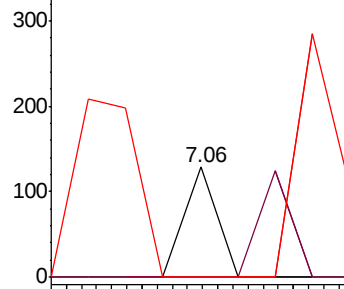
39 193.8 67.0 100.6#



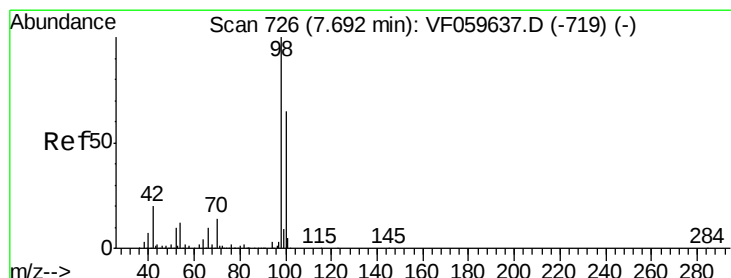
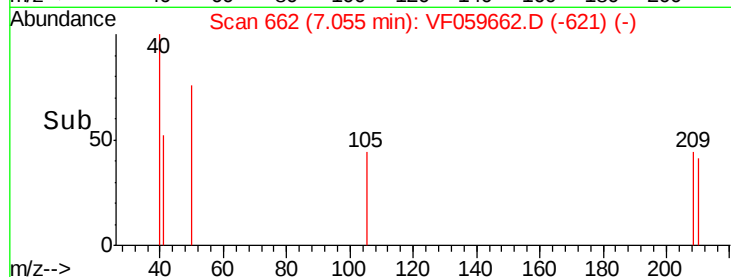
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#50

Toluene-d8

Concen: 43.96 ug/l

RT: 7.78 min Scan# 736

Delta R.T. 0.09 min

Lab File: VF059662.D

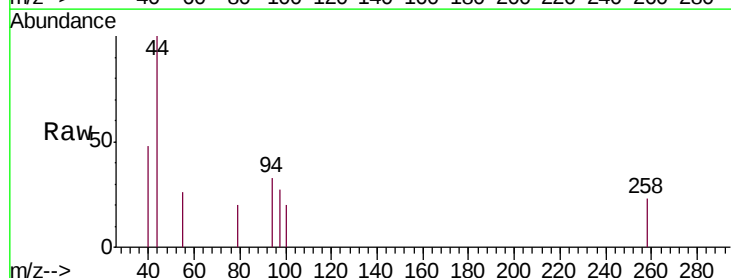
Acq: 25 Jul 2018 17:16

Tgt Ion: 98 Resp: 81

Ion Ratio Lower Upper

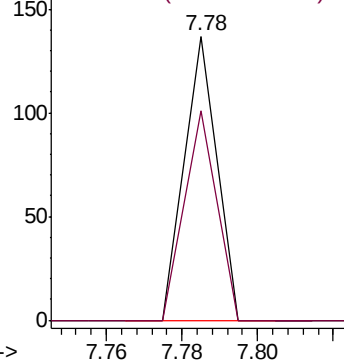
98 100

100 73.7 52.2 78.4

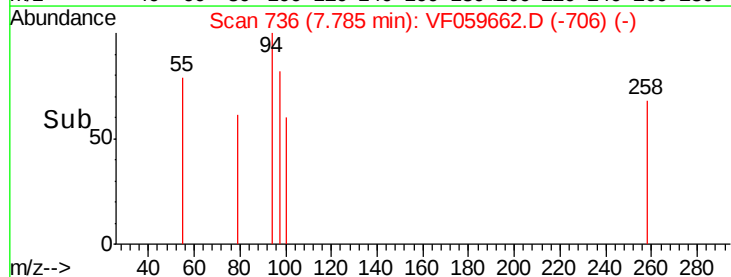


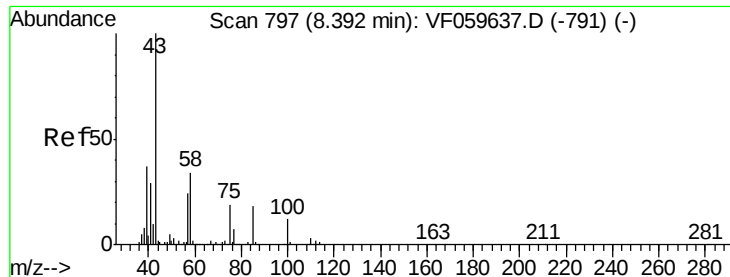
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 316.33 ug/l

RT: 8.63 min Scan# 822

Delta R.T. 0.24 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Instrument :

MSVOA_F

ClientSampleId :

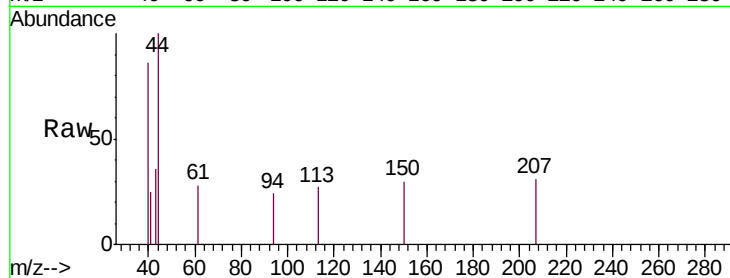
MOLA-BOULEVARD

Tot Ion: 43 Resp: 88

Ion Ratio Lower Upper

43 100

58 0.0 27.3 40.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.63

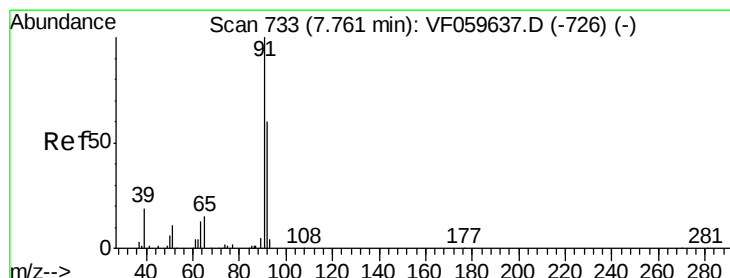
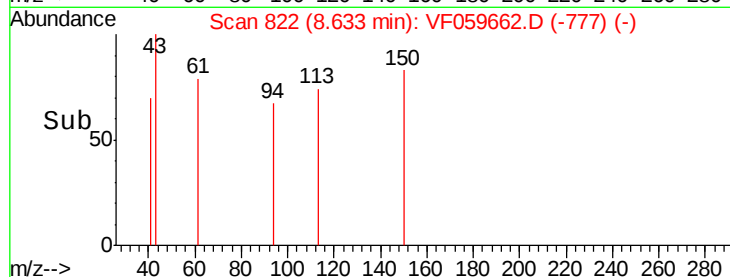
150

100

50

0

Time-->



#52

Toluene

Concen: 70.55 ug/l

RT: 7.92 min Scan# 750

Delta R.T. 0.16 min

Lab File: VF059662.D

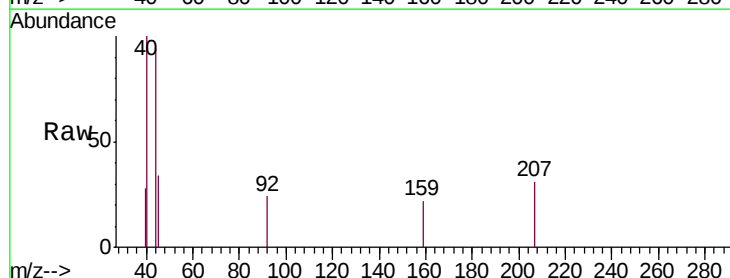
Acq: 25 Jul 2018 17:16

Tgt Ion: 92 Resp: 71

Ion Ratio Lower Upper

92 100

91 0.0 134.2 201.4#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

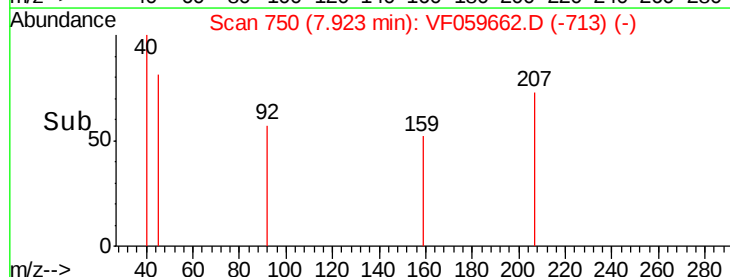
150

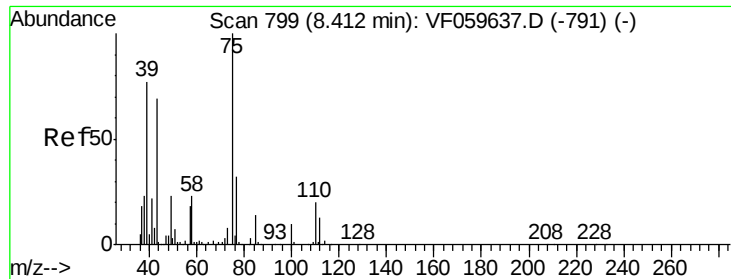
100

50

0

Time-->

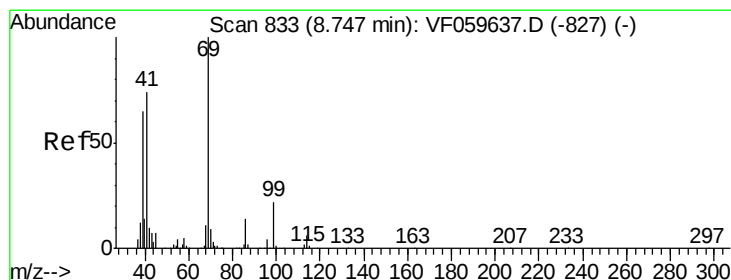
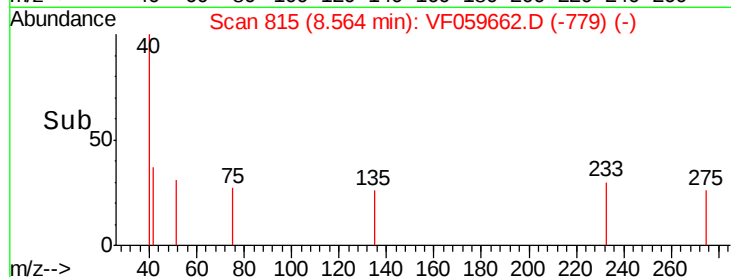
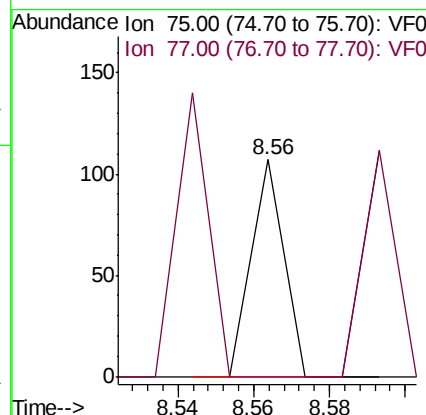
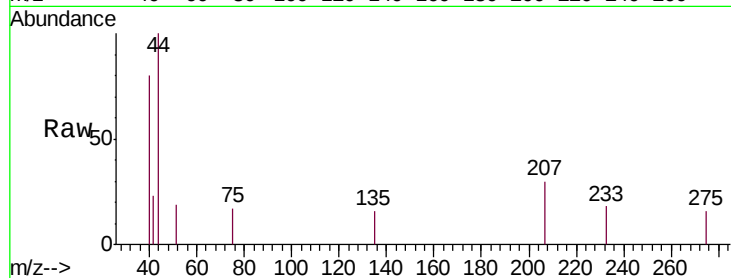




#53
t-1,3-Dichloropropene
Concen: 79.42 ug/l
RT: 8.56 min Scan# 815
Delta R.T. 0.15 min
Lab File: VF059662.D
Acq: 25 Jul 2018 17:16

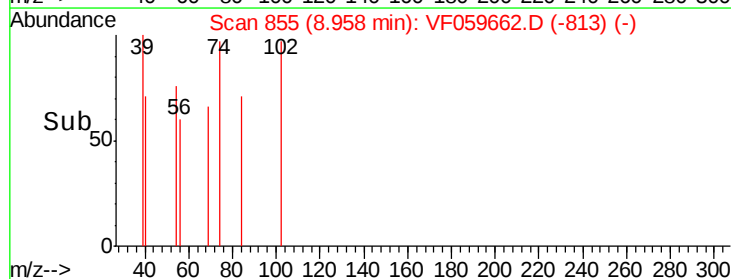
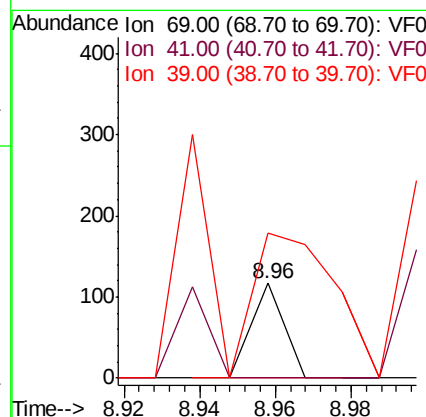
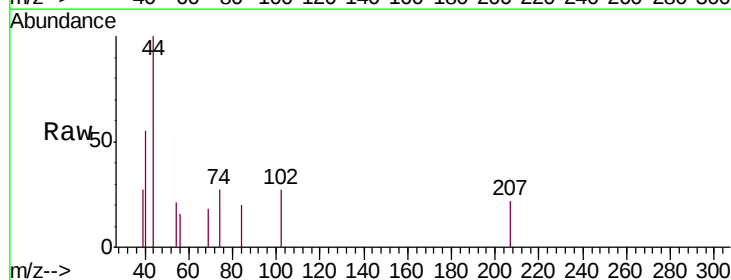
Instrument :
MSVOA_F
ClientSampleId :
MOLA-BOULEVARD

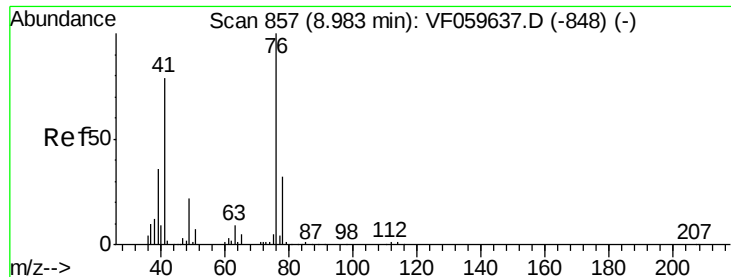
Tot Ion: 75 Resp: 63
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#



#56
Ethyl methacrylate
Concen: 181.85 ug/l
RT: 8.96 min Scan# 855
Delta R.T. 0.21 min
Lab File: VF059662.D
Acq: 25 Jul 2018 17:16

Tgt Ion: 69 Resp: 69
Ion Ratio Lower Upper
69 100
41 0.0 59.1 88.7#
39 152.1 52.4 78.6#





#57

1,3-Dichloropropane

Concen: 113.54 ug/l

RT: 9.23 min Scan# 883

Delta R.T. 0.25 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Instrument :

MSVOA_F

ClientSampleId :

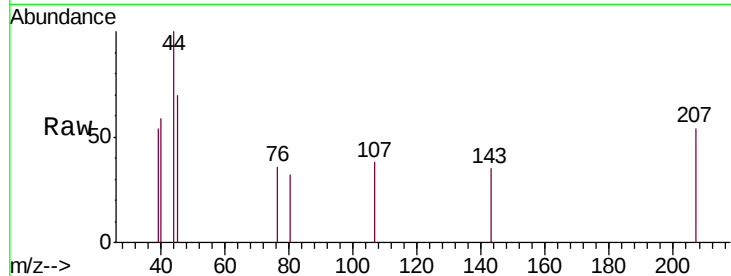
MOLA-BOULEVARD

Tot Ion: 76 Resp: 69

Ion Ratio Lower Upper

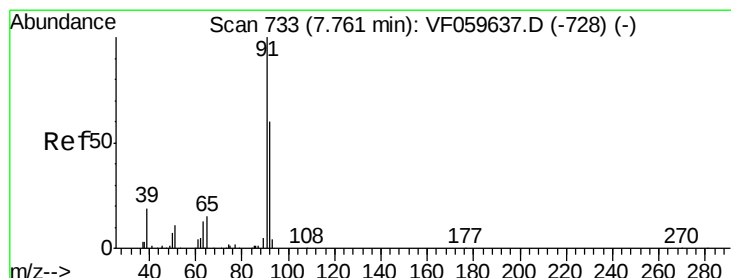
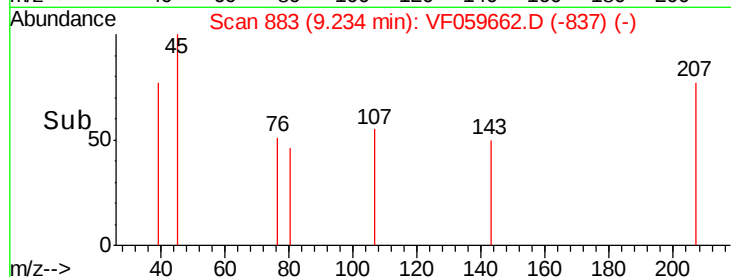
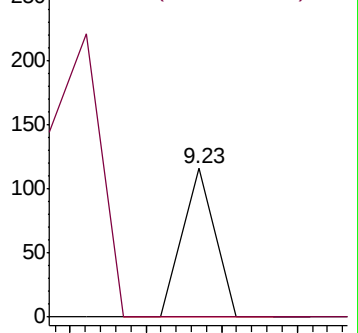
76 100

78 0.0 25.5 38.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 2628.12 ug/l

RT: 7.99 min Scan# 757

Delta R.T. 0.23 min

Lab File: VF059662.D

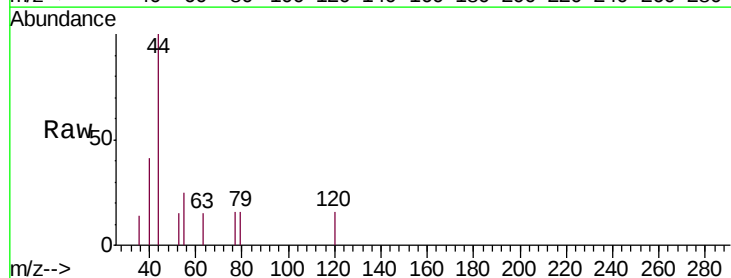
Acq: 25 Jul 2018 17:16

Tgt Ion: 63 Resp: 128

Ion Ratio Lower Upper

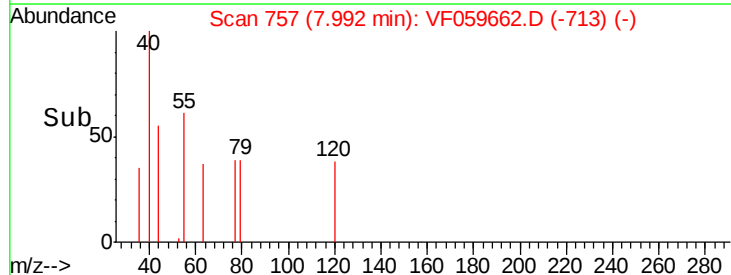
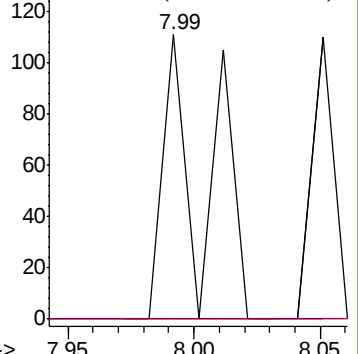
63 100

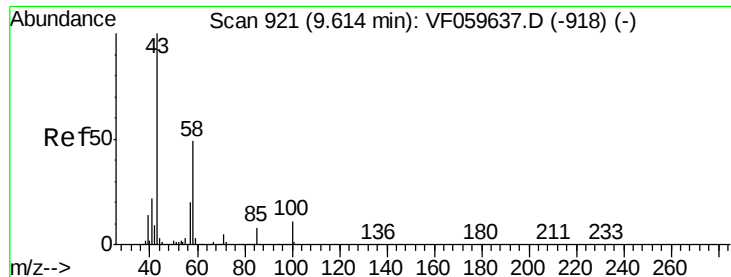
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

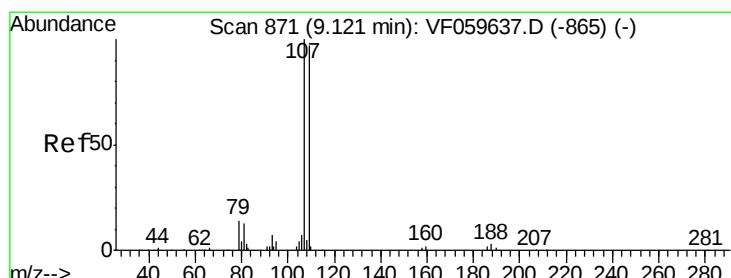
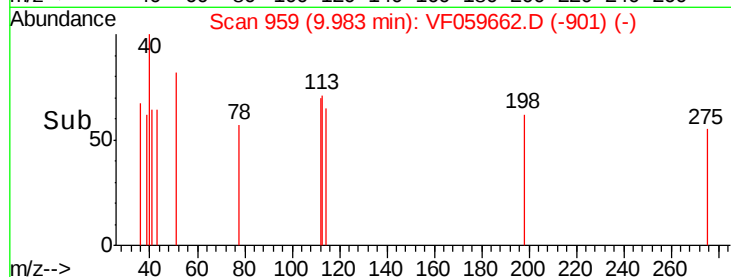
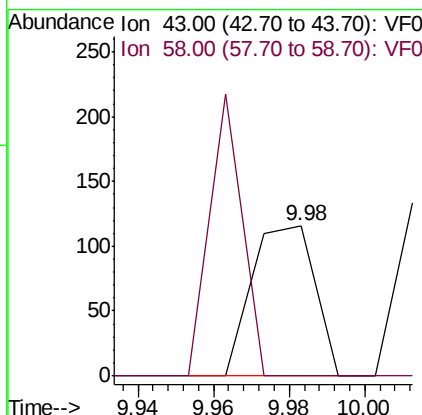
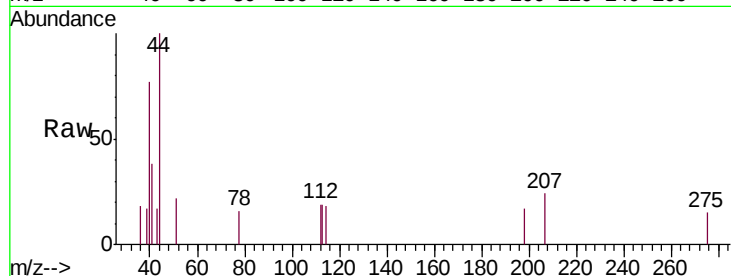




#59
2-Hexanone
Concen: 630.76 ug/l
RT: 9.98 min Scan# 959
Delta R.T. 0.37 min
Lab File: VF059662.D
Acq: 25 Jul 2018 17:16

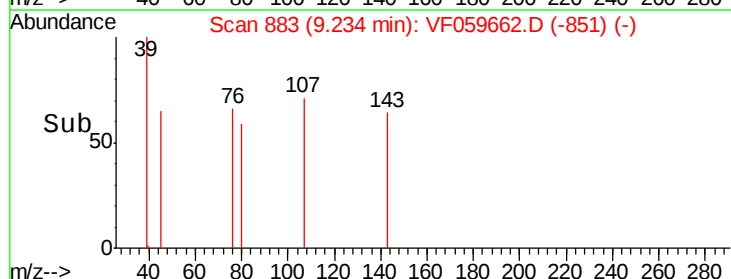
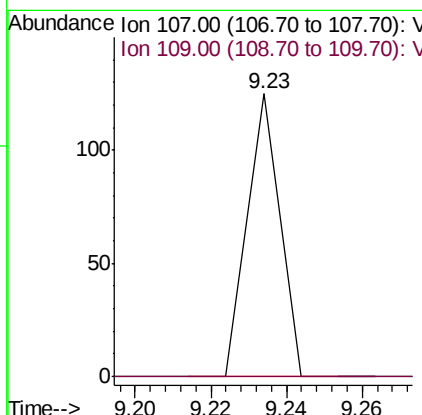
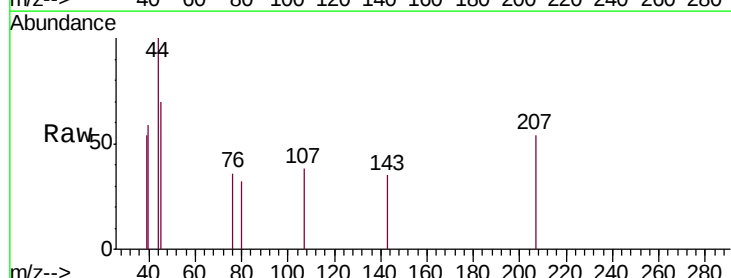
Instrument :
MSVOA_F
ClientSampleId :
MOLA-BOULEVARD

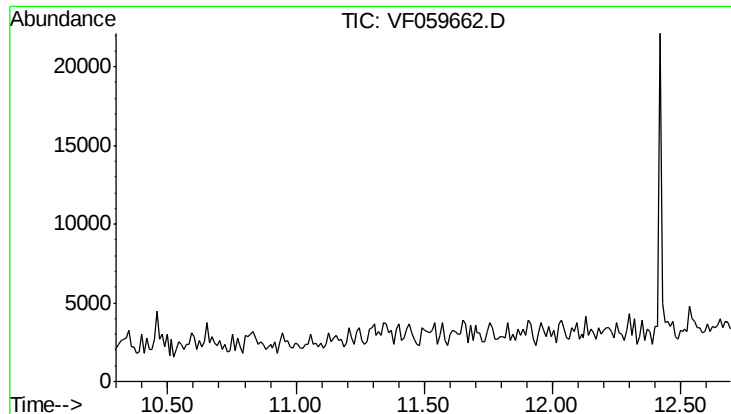
Tot Ion: 43 Resp: 134
Ion Ratio Lower Upper
43 100
58 0.0 23.6 71.0#



#61
1,2-Dibromoethane
Concen: 170.73 ug/l
RT: 9.23 min Scan# 883
Delta R.T. 0.11 min
Lab File: VF059662.D
Acq: 25 Jul 2018 17:16

Tgt Ion: 107 Resp: 74
Ion Ratio Lower Upper
107 100
109 0.0 77.3 115.9#

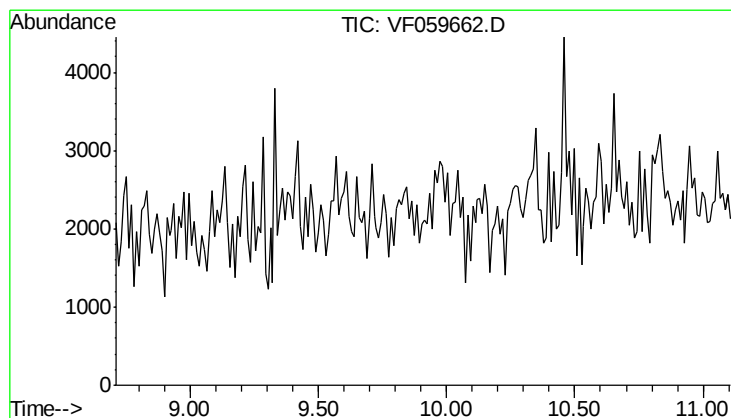
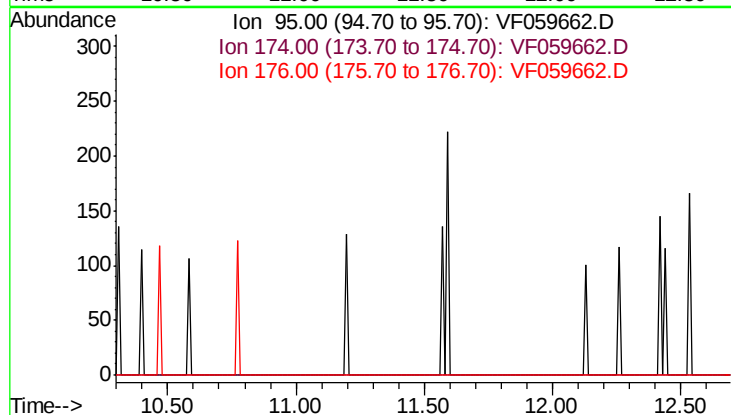




#62
 4-Bromofluorobenzene
 Concen: 0.00 ug/l
 Expected RT: 11.50 min
 Lab File: VF059662.D
 Acq: 25 Jul 2018 17:16

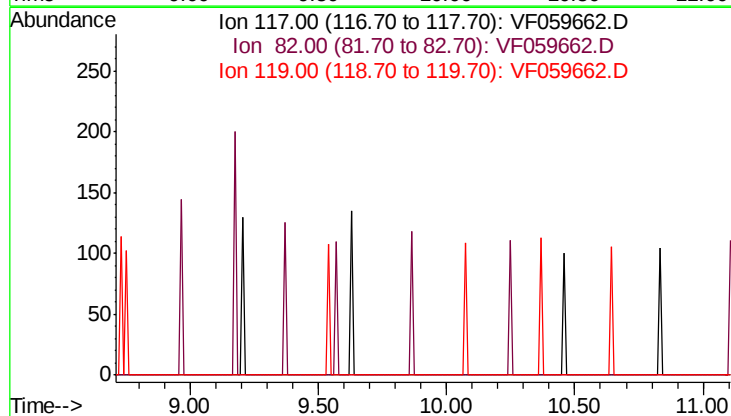
Instrument :
 MSVOA_F
 ClientSampleId :
 MOLA-BOULEVARD

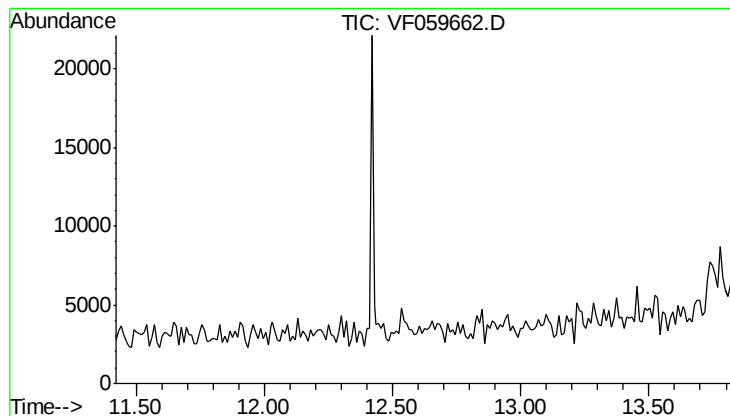
Tot Ion	95
Sig	Exp Ratio
95	100
174	70.9
176	71.0



#63
 Chlorobenzene-d5
 Concen: 0.00 ug/l
 Expected RT: 9.91 min
 Lab File: VF059662.D
 Acq: 25 Jul 2018 17:16

Tgt Ion	117
Sig	Exp Ratio
117	100
82	57.4
119	31.4





#72

1,4-Dichlorobenzene-d4

Concen: 0.00 ug/l

Expected RT: 12.62 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

Instrument :

MSVOA_F

ClientSampleId :

MOLA-BOULEVARD

Tot Ion: 152

Sig Exp Ratio

152 100

115 64.1

150 156.6

