

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

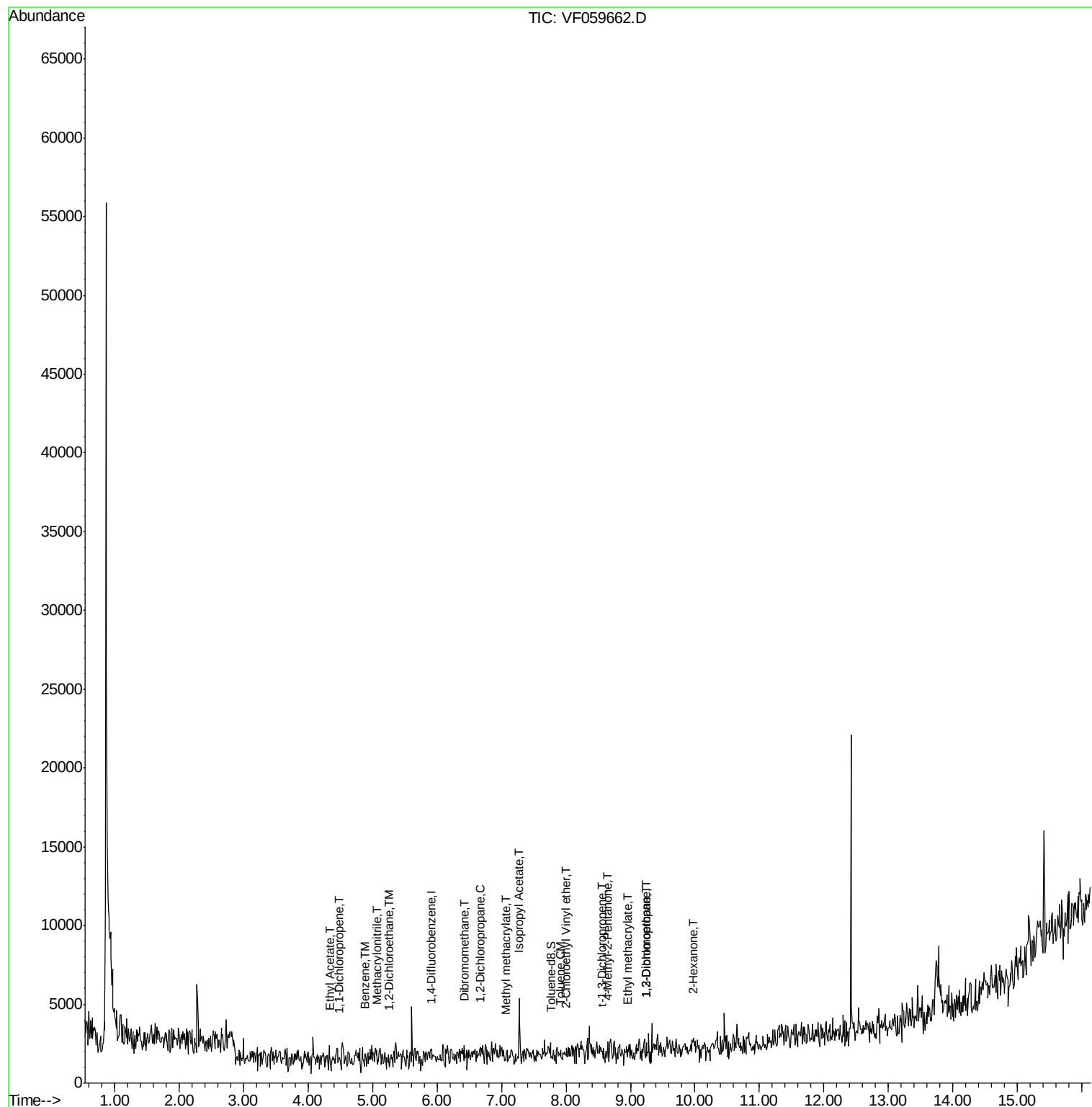
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.02
34) 1,4-Difluorobenzene	5.91	114	84	50.00	ug/l	0.16
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.91
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.62
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	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						
					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

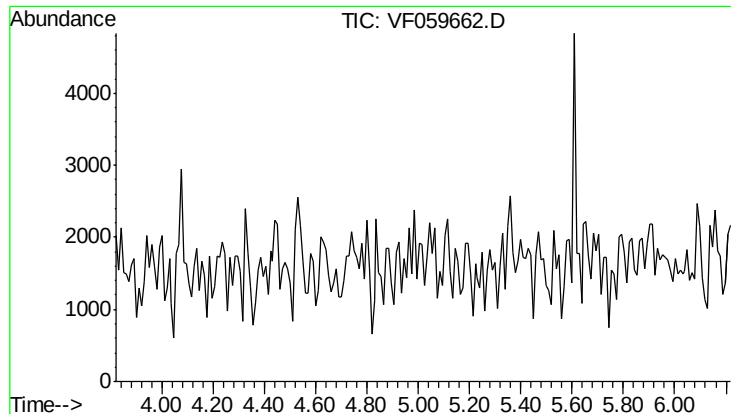
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

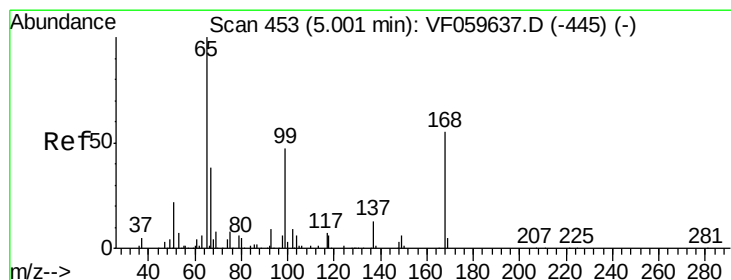
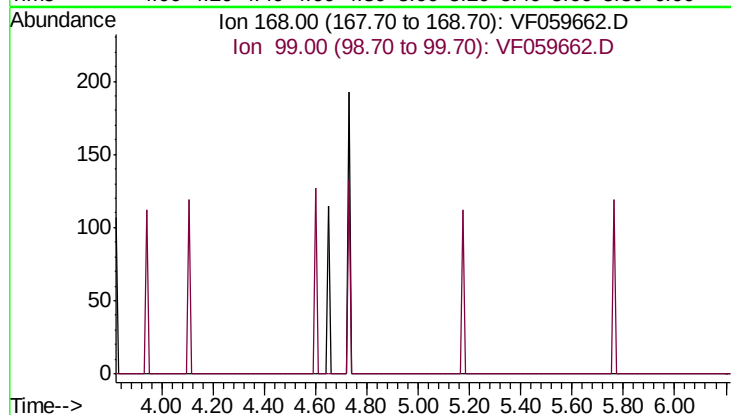
99 74.4

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

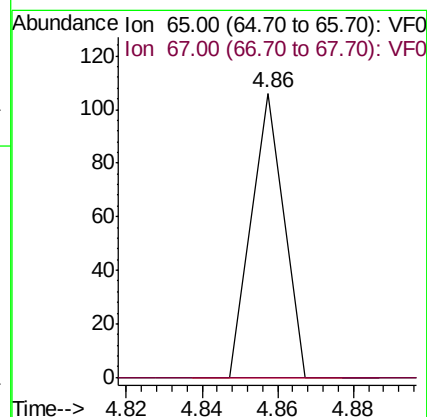
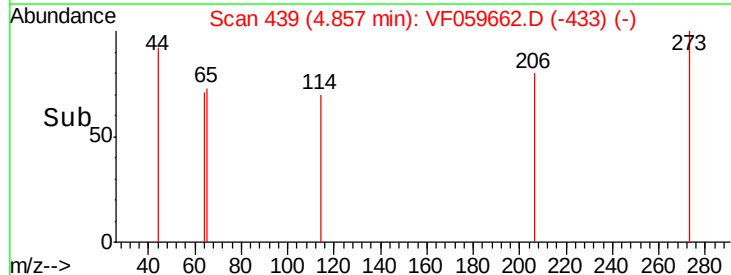
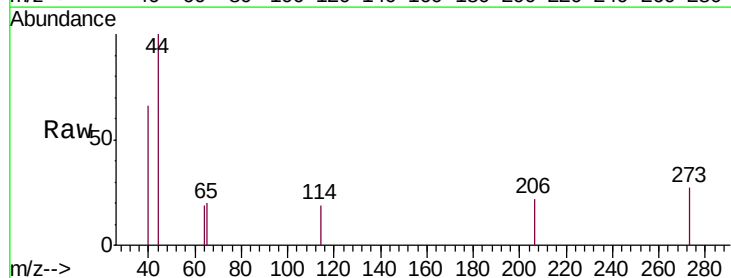
Acq: 25 Jul 2018 17:16

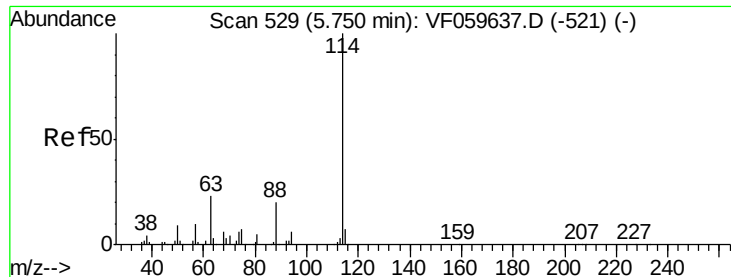
Tgt Ion: 65 Resp: 63

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

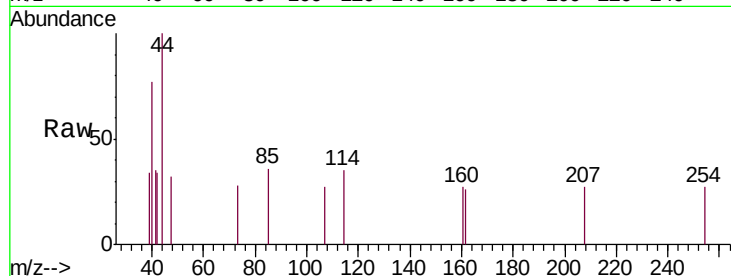
Tot Ion:114 Resp: 84

Ion Ratio Lower Upper

114 100

63 0.0 0.0 45.6

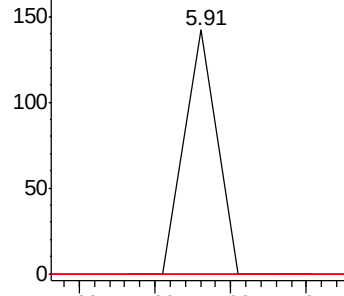
88 0.0 0.0 40.8



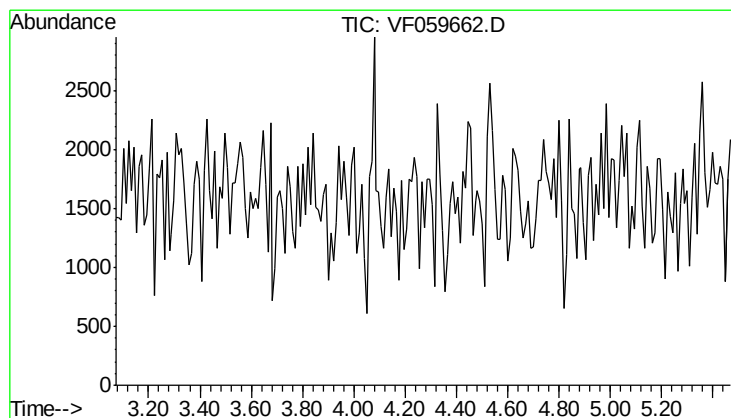
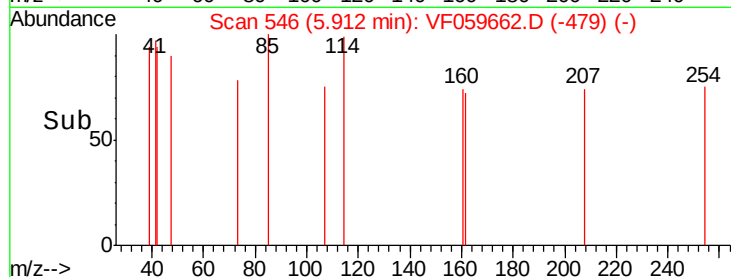
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



Time-->



#35

Dibromofluoromethane

Concen: 0.00 ug/l

Expected RT: 4.27 min

Lab File: VF059662.D

Acq: 25 Jul 2018 17:16

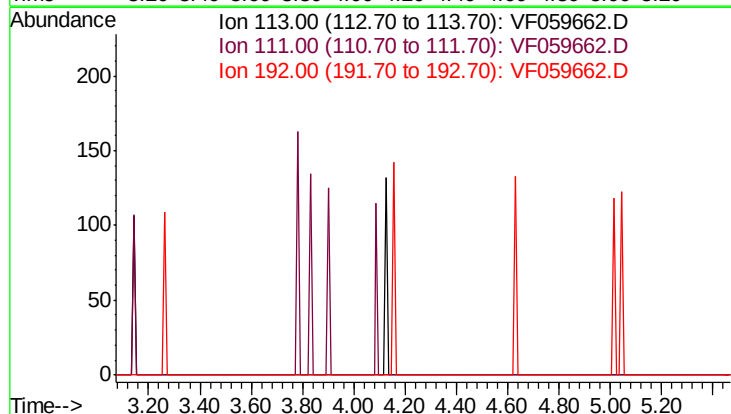
Tgt Ion: 113

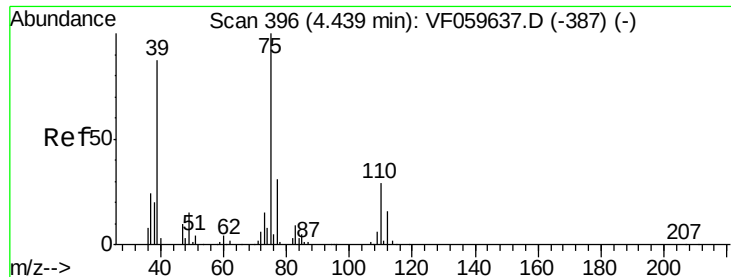
Sig Exp Ratio

113 100

111 99.1

192 16.8

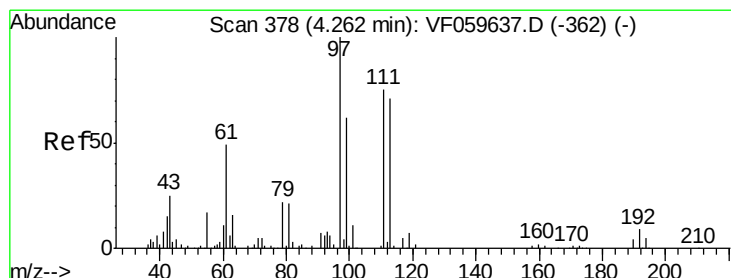
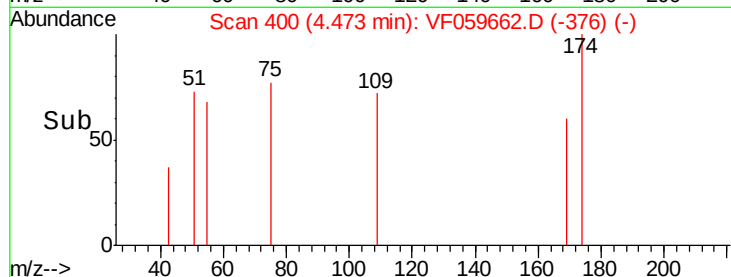
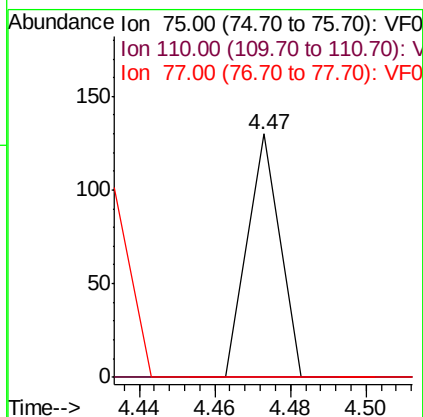
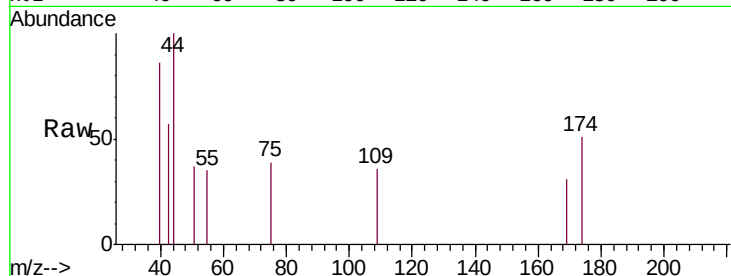




#36
 1,1-Dichloropropene
 Concen: 89.47 ug/l
 RT: 4.47 min Scan# 400
 Delta R.T. 0.03 min
 Lab File: VF059662.D
 Acq: 25 Jul 2018 17:16

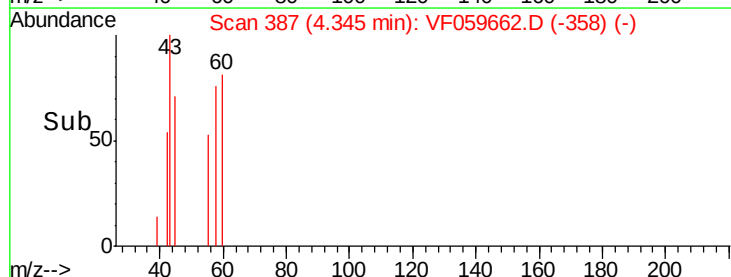
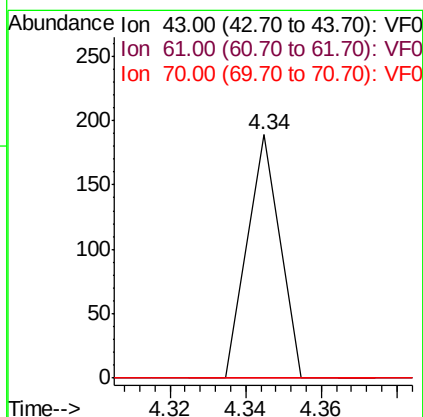
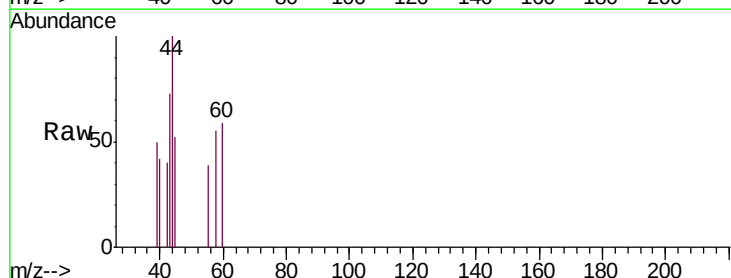
Instrument :
 MSVOA_F
 ClientSampleId :
 MOLA-BOULEVARD

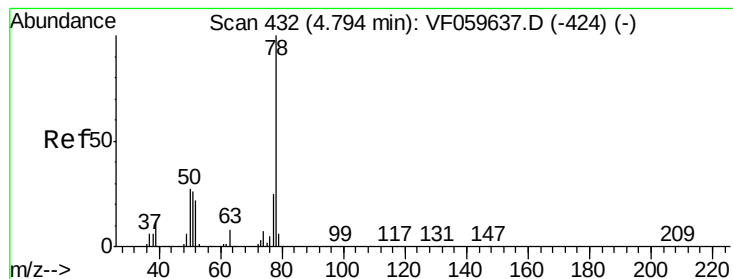
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	14.6	43.8#
77	0.0	24.4	36.6#



#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	Ratio	Lower	Upper
43	100		
61	0.0	156.6	234.8#
70	0.0	7.3	10.9#





#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

ClientSampleId :

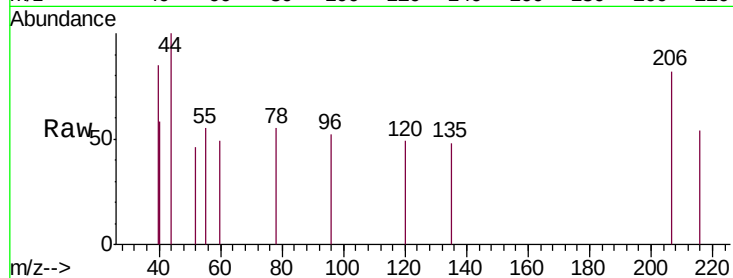
MOLA-BOULEVARD

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

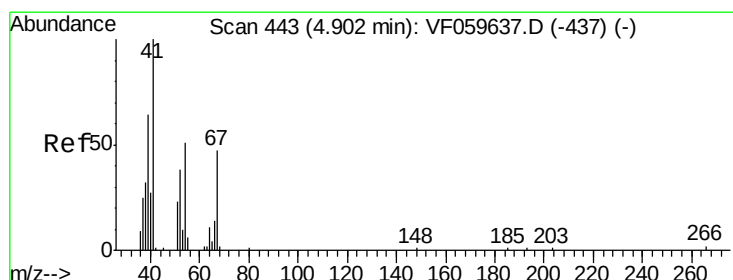
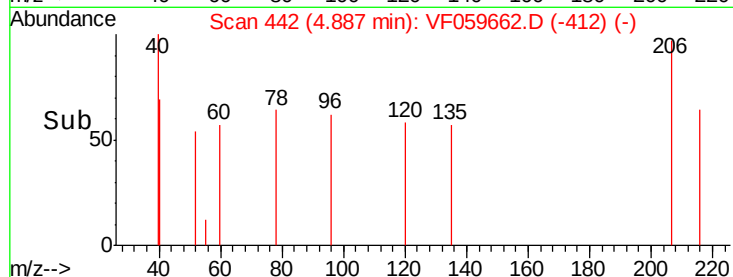
100

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

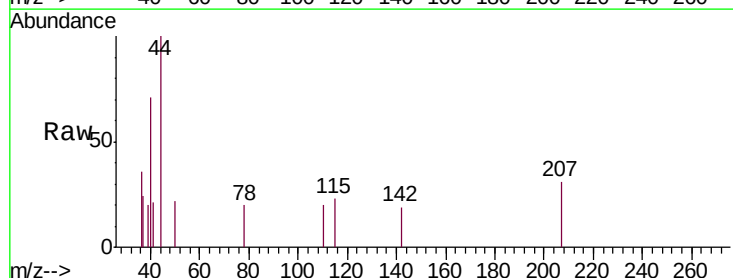
Ion Ratio Lower Upper

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

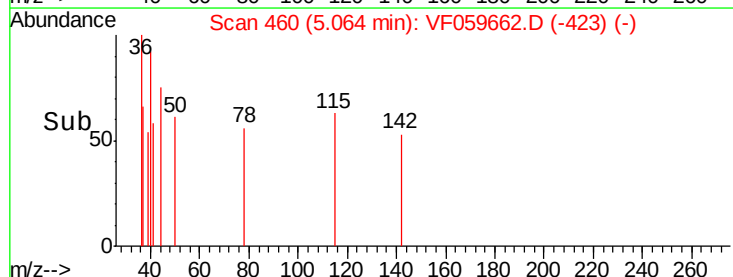
100

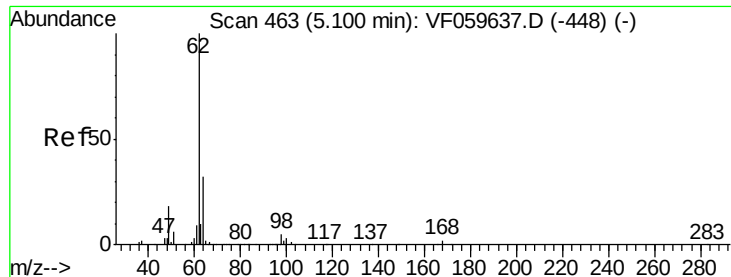
50

0

5.05 5.06 5.07 5.08

Time-->

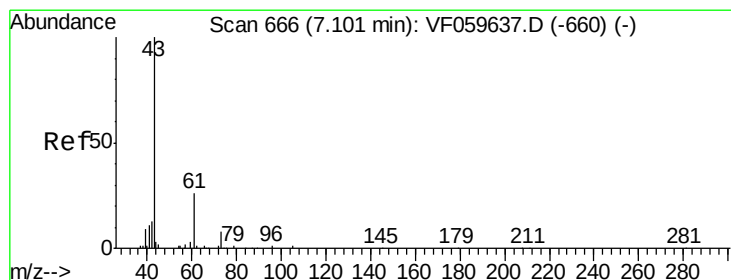
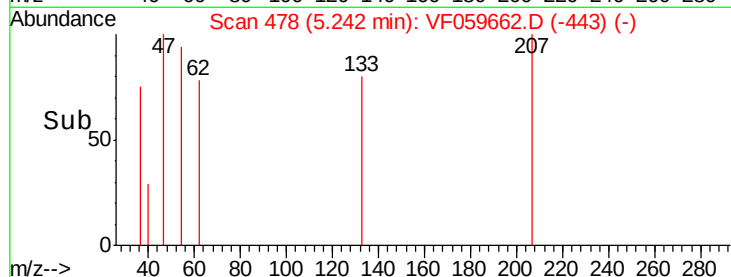
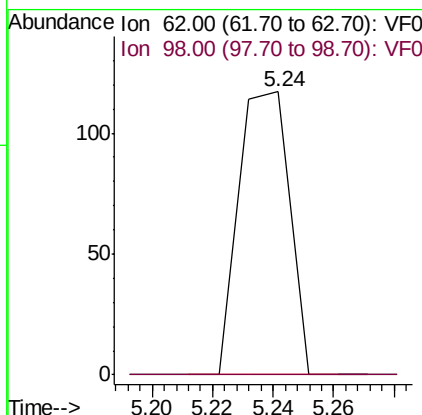
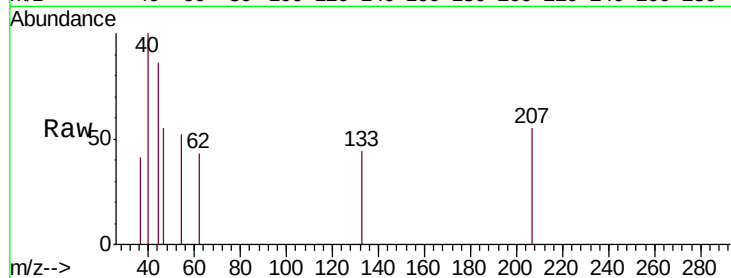




#42
 1,2-Dichloroethane
 Concen: 145.23 ug/l
 RT: 5.24 min Scan# 478
 Delta R.T. 0.14 min
 Lab File: VF059662.D
 Acq: 25 Jul 2018 17:16

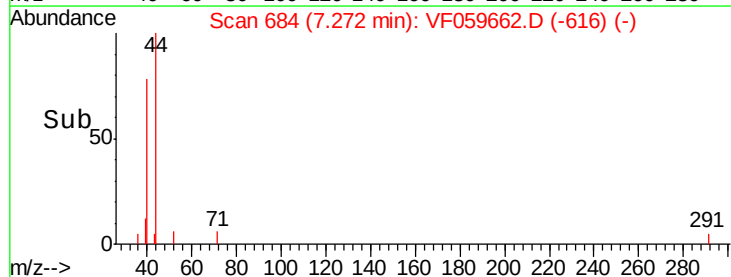
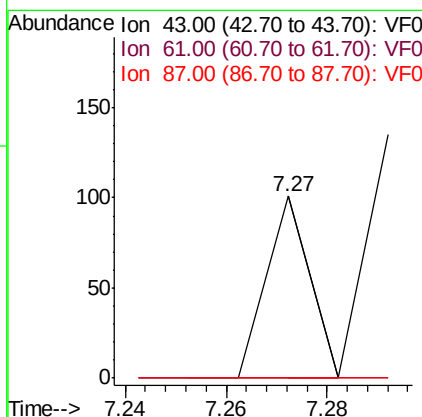
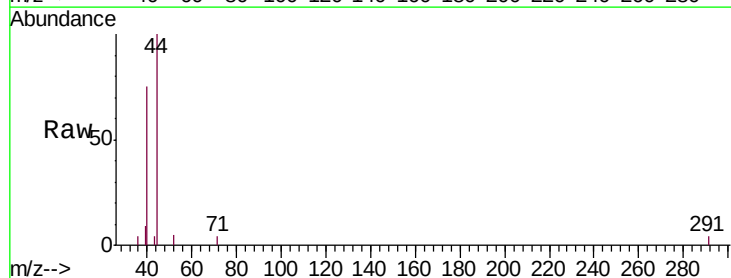
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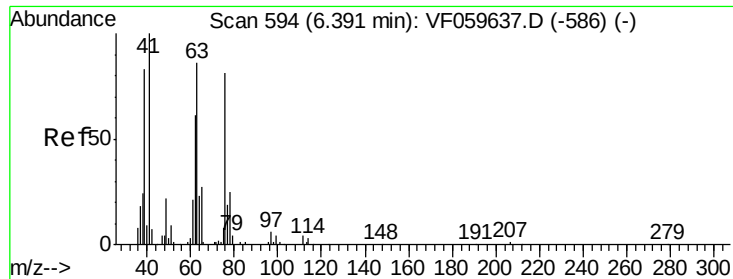
Tot Ion: 62 Resp: 137
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 10.6



#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#

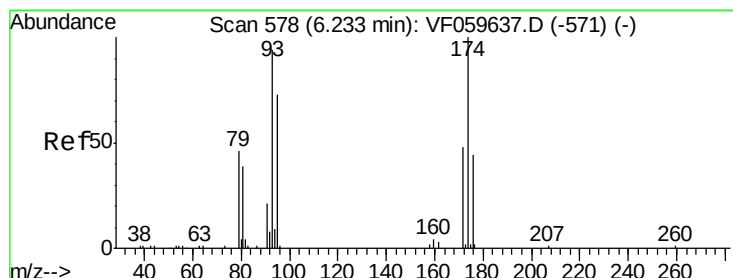
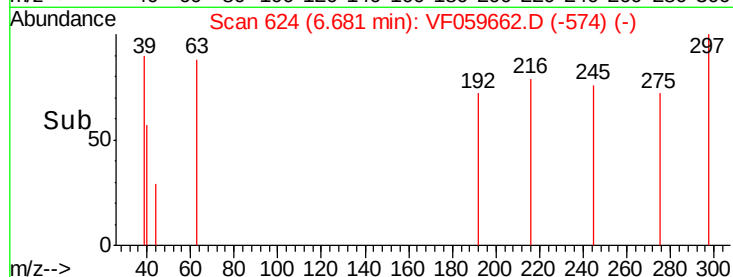
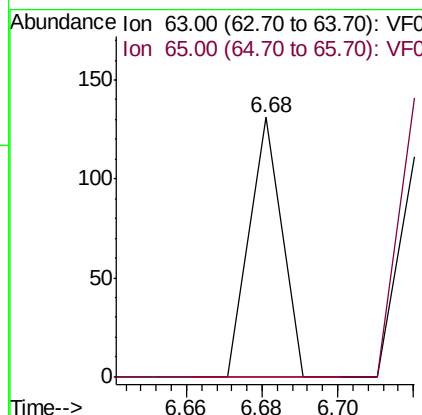
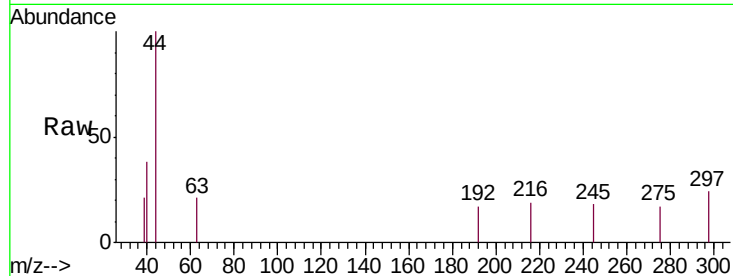




#45
 1,2-Dichloropropane
 Concen: 191.03 ug/l
 RT: 6.68 min Scan# 624
 Delta R.T. 0.29 min
 Lab File: VF059662.D
 Acq: 25 Jul 2018 17:16

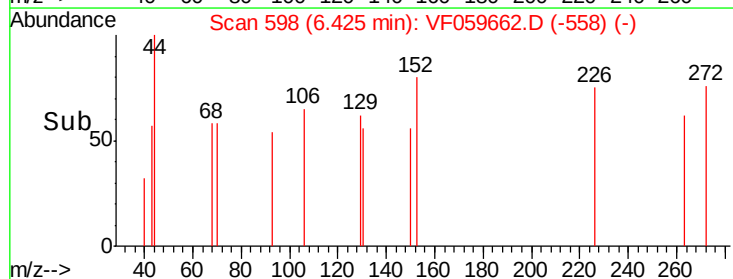
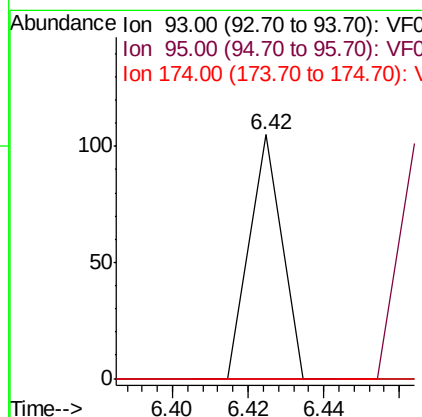
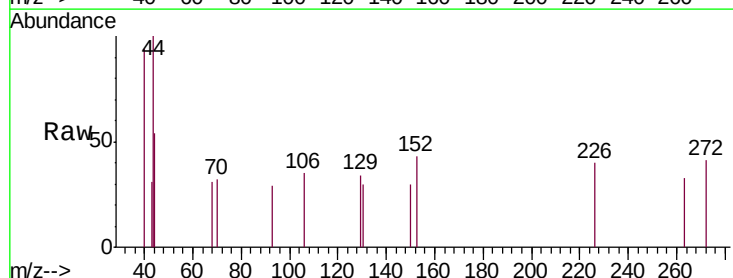
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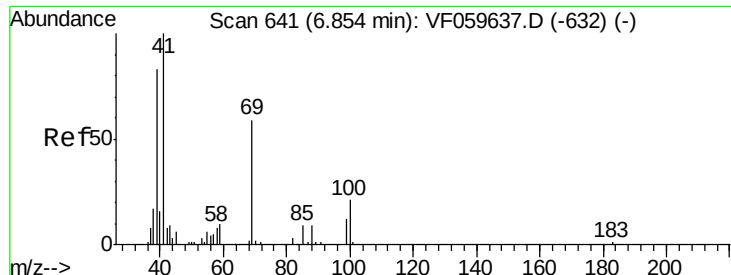
Tot Ion: 63 Resp: 77
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.1 37.7#



#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#

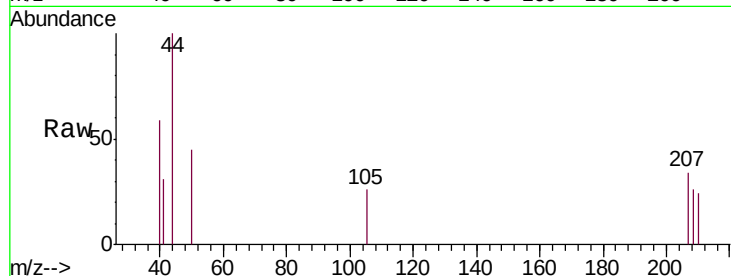




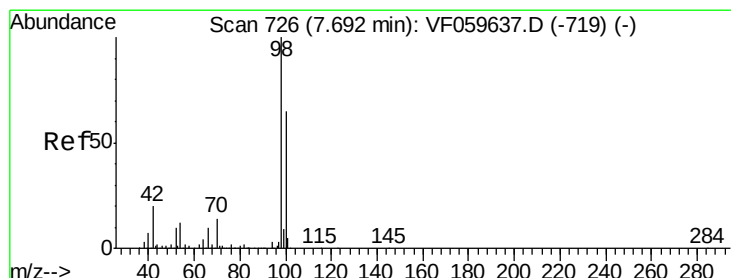
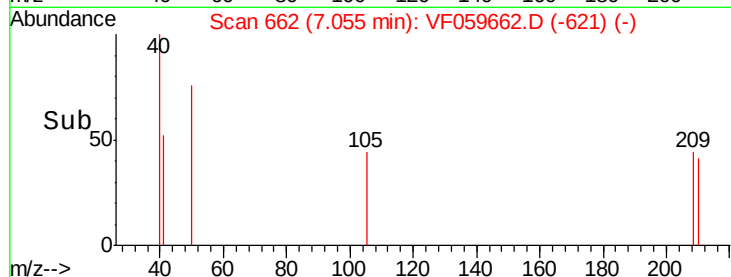
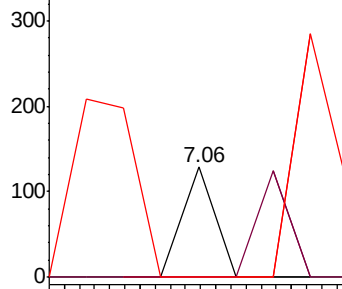
#48
Methvl methacrylate
Concen: 272.76 ug/l
RT: 7.06 min Scan# 662
Delta R.T. 0.20 min
Lab File: VF059662.D
Acq: 25 Jul 2018 17:16

Instrument :
MSVOA_F
ClientSampleId :
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#

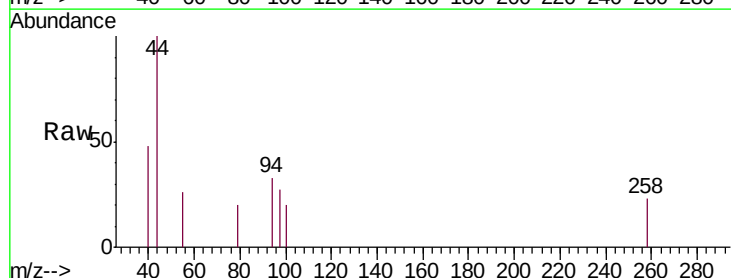


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

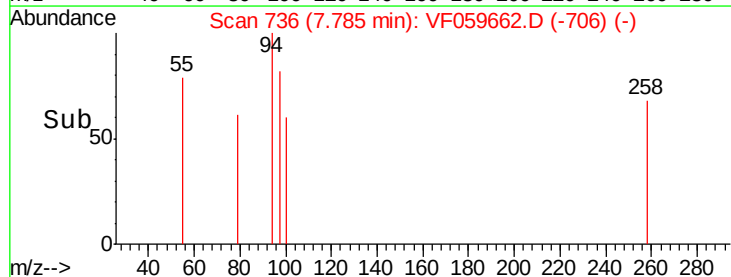
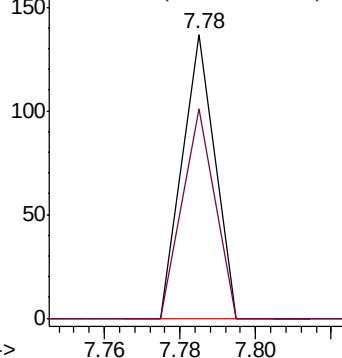


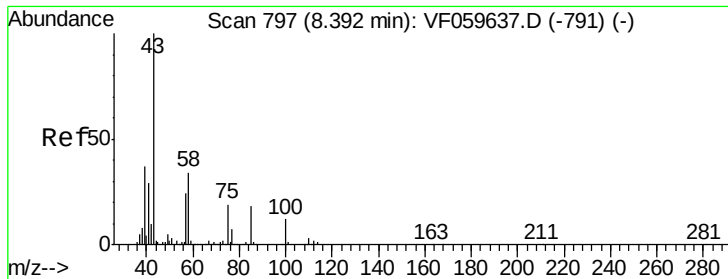
#50
Toluene-d8
Concen: 43.96 ug/l
RT: 7.78 min Scan# 736
Delta R.T. 0.09 min
Lab File: VF059662.D
Acq: 25 Jul 2018 17:16

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





#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 :

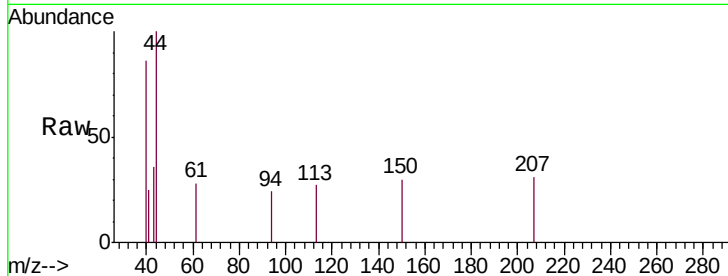
MOLA-BOULEVARD

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

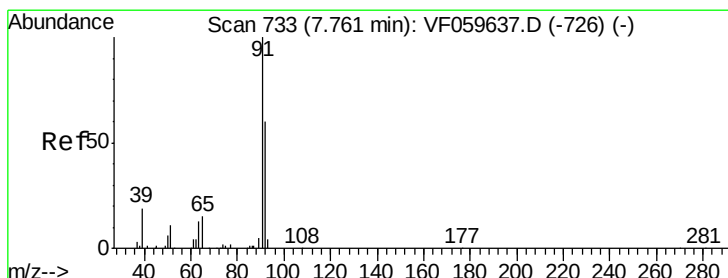
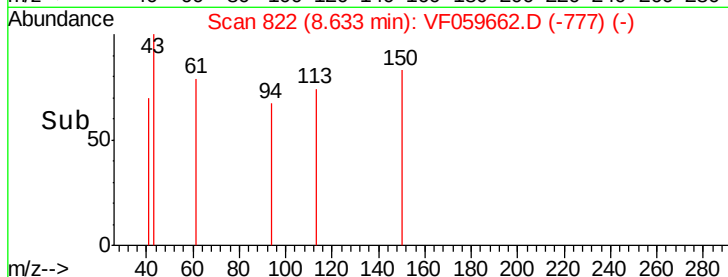
150

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

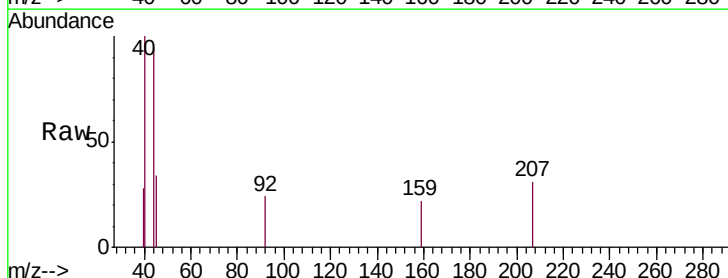
Acq: 25 Jul 2018 17:16

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

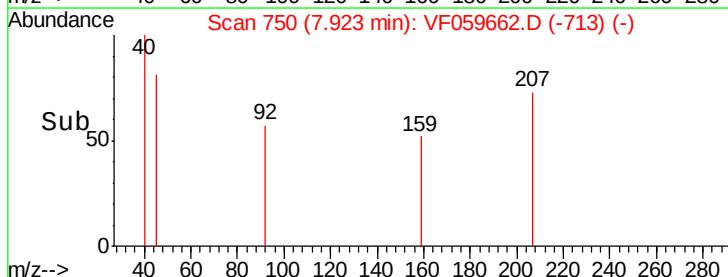
150

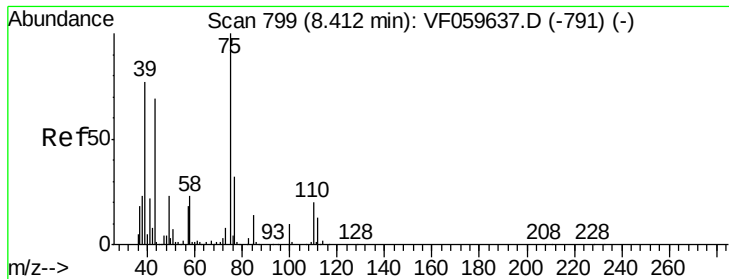
100

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 :

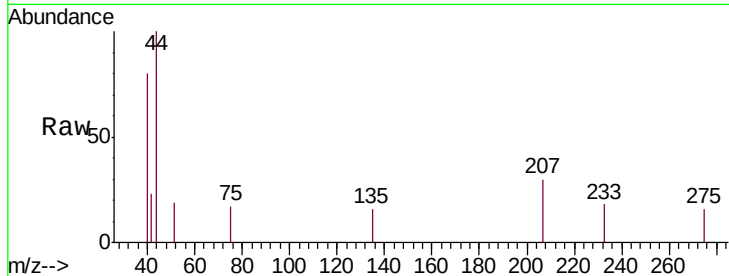
MOLA-BOULEVARD

Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

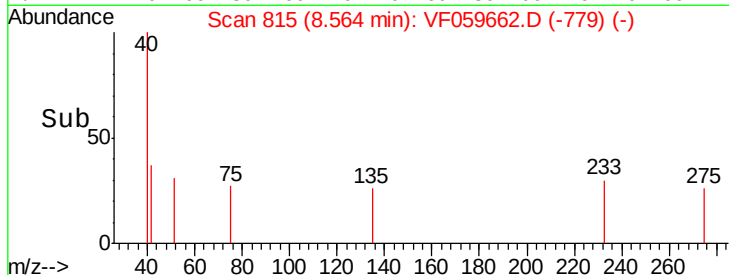
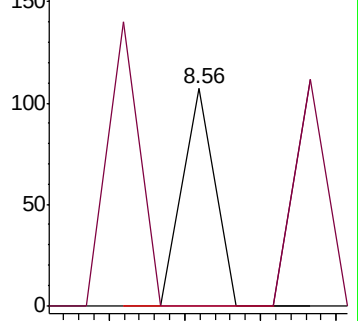
75 100

77 0.0 25.2 37.8#

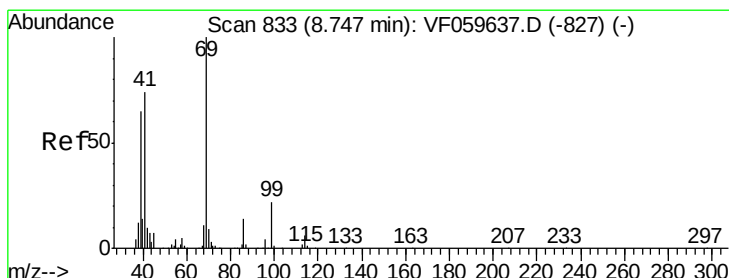


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



Time-->



#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

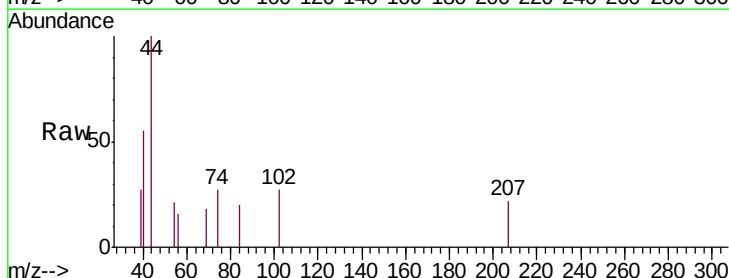
Tgt Ion: 69 Resp: 69

Ion Ratio Lower Upper

69 100

41 0.0 59.1 88.7#

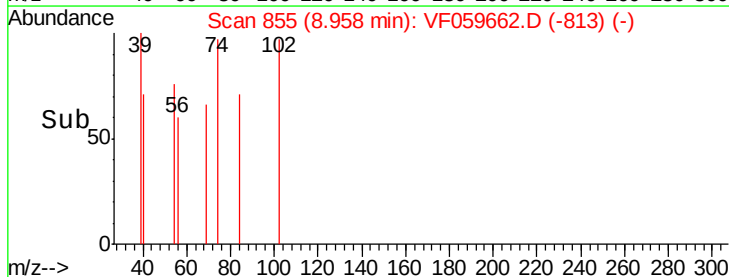
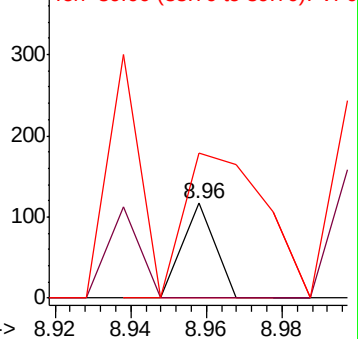
39 152.1 52.4 78.6#



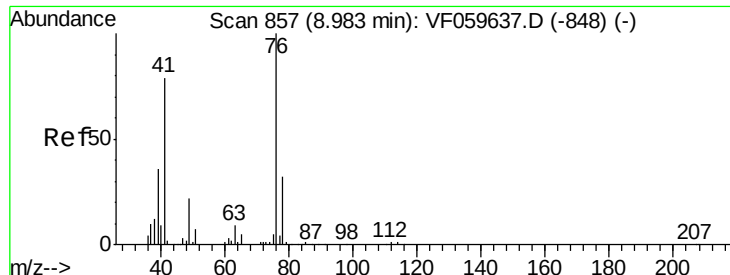
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



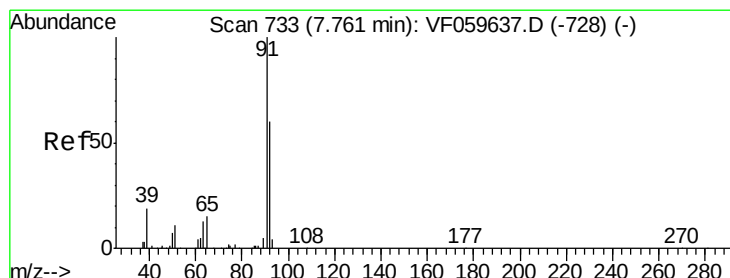
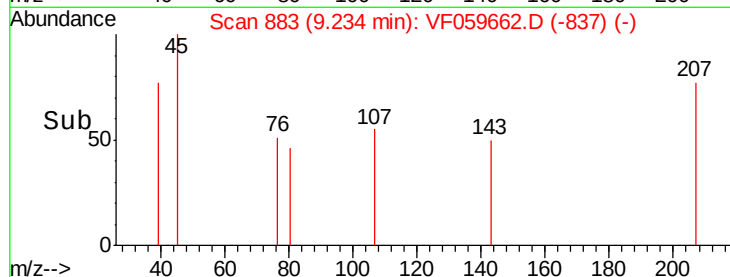
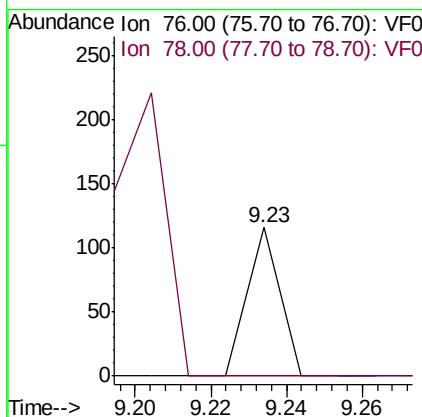
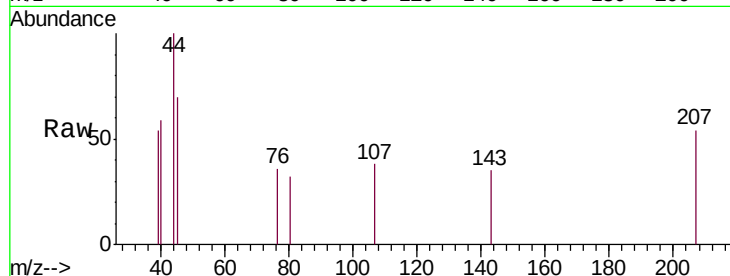
Time-->



#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

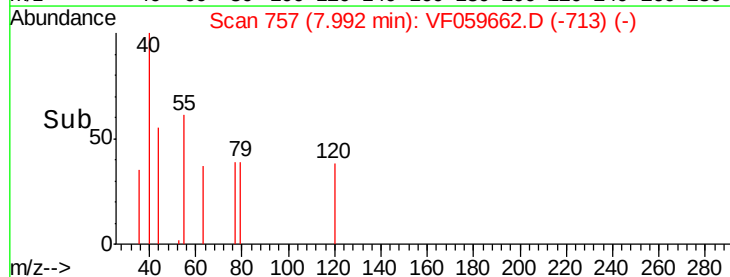
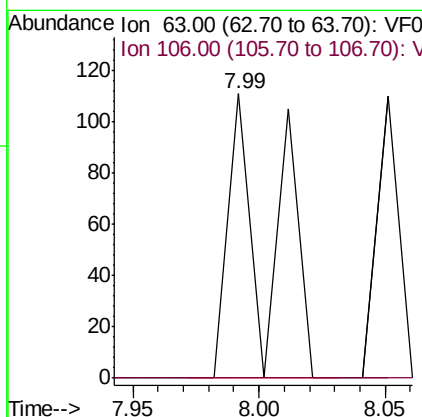
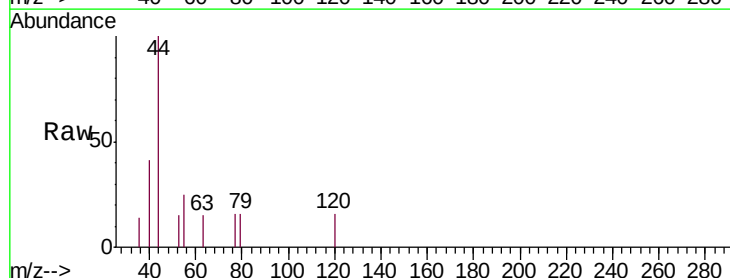
Instrument :
 MSVOA_F
 ClientSampleId :
 MOLA-BOULEVARD

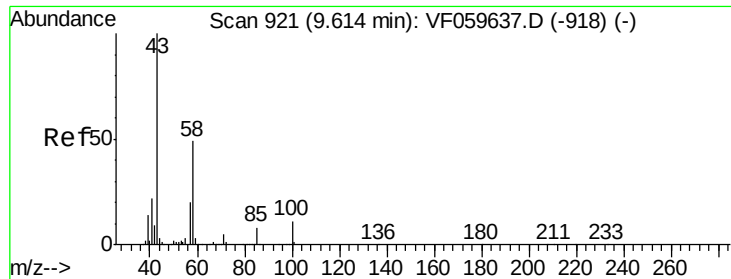
Tot Ion: 76 Resp: 69
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#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





#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 :

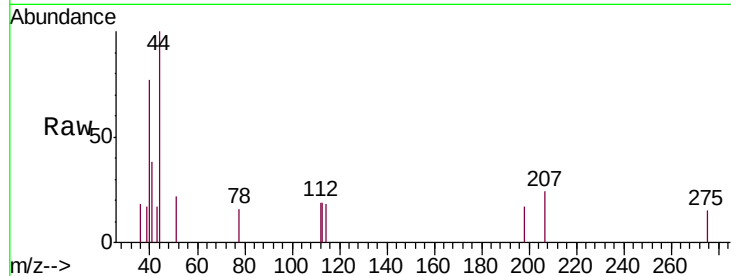
MOLA-BOULEVARD

Tot Ion: 43 Resp: 134

Ion Ratio Lower Upper

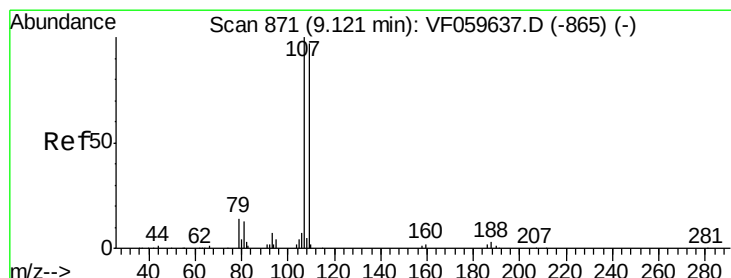
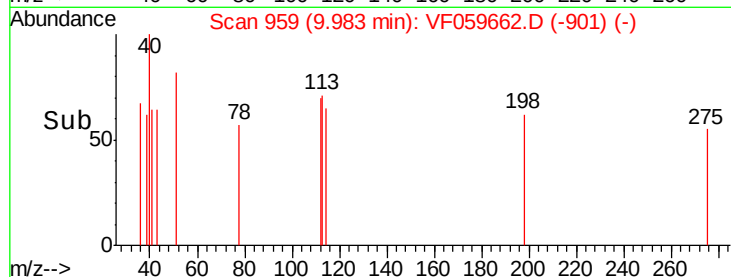
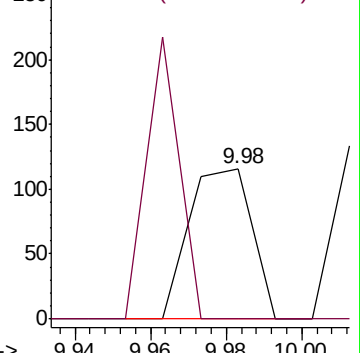
43 100

58 0.0 23.6 71.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#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

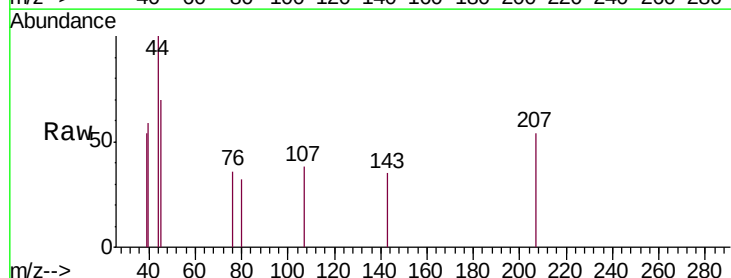
Acq: 25 Jul 2018 17:16

Tgt Ion: 107 Resp: 74

Ion Ratio Lower Upper

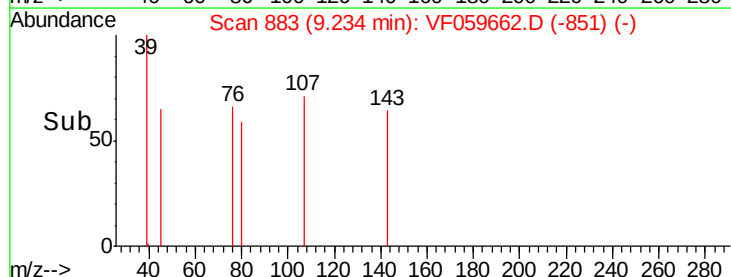
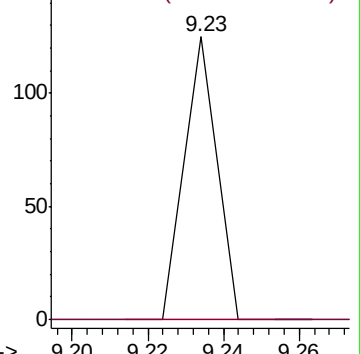
107 100

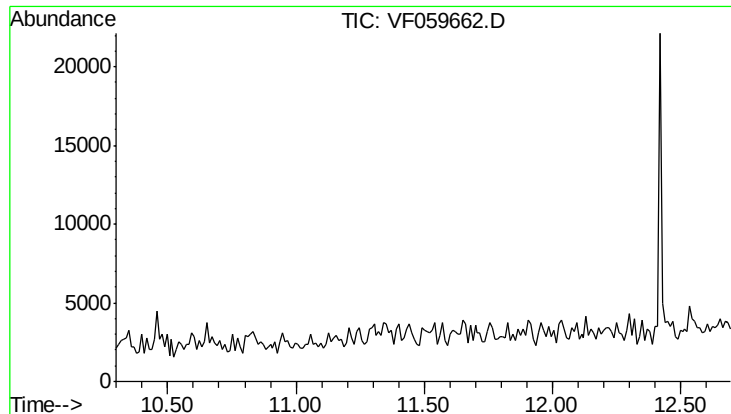
109 0.0 77.3 115.9#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#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

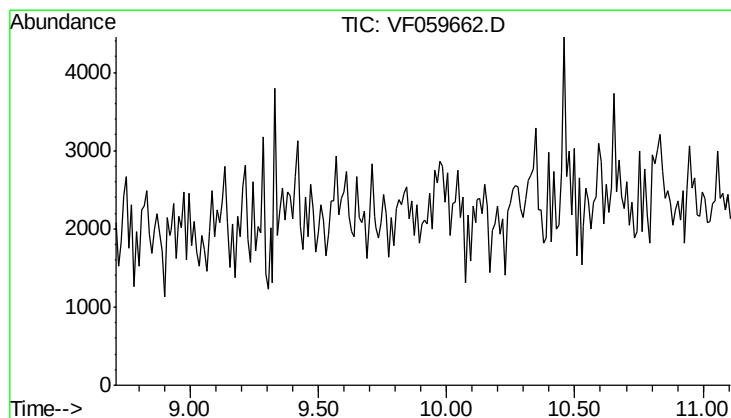
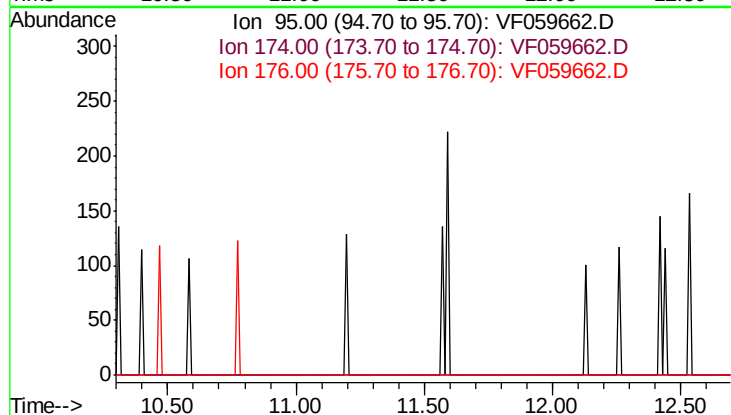
Tot Ion: 95

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

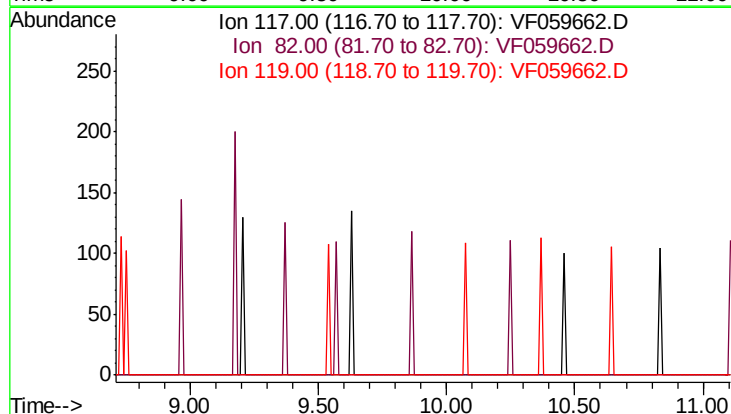
Tgt Ion: 117

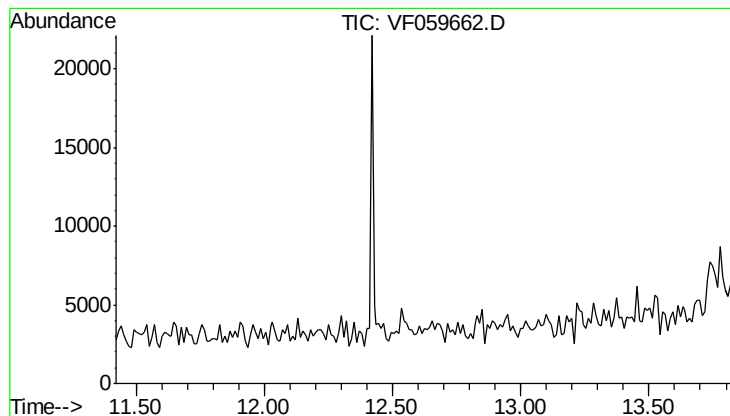
Sig Exp Ratio

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

