

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072518\
 Data File : VF059661.D
 Acq On : 25 Jul 2018 16:49
 Operator : VA/AP
 Sample : J4101-03
 Misc : 3.22g/5mL/MSVOA F/SOIL
 ALS Vial : 86 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-2

Quant Time: Jul 26 03:43:47 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	5.48	114	59	50.00	ug/l	-0.27
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	4.87	65	100	0.00	ug/l	-0.13
Spiked Amount			Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	10.93	95	64	96.24	ug/l	-0.56
Spiked Amount			Recovery	=	192.48%	

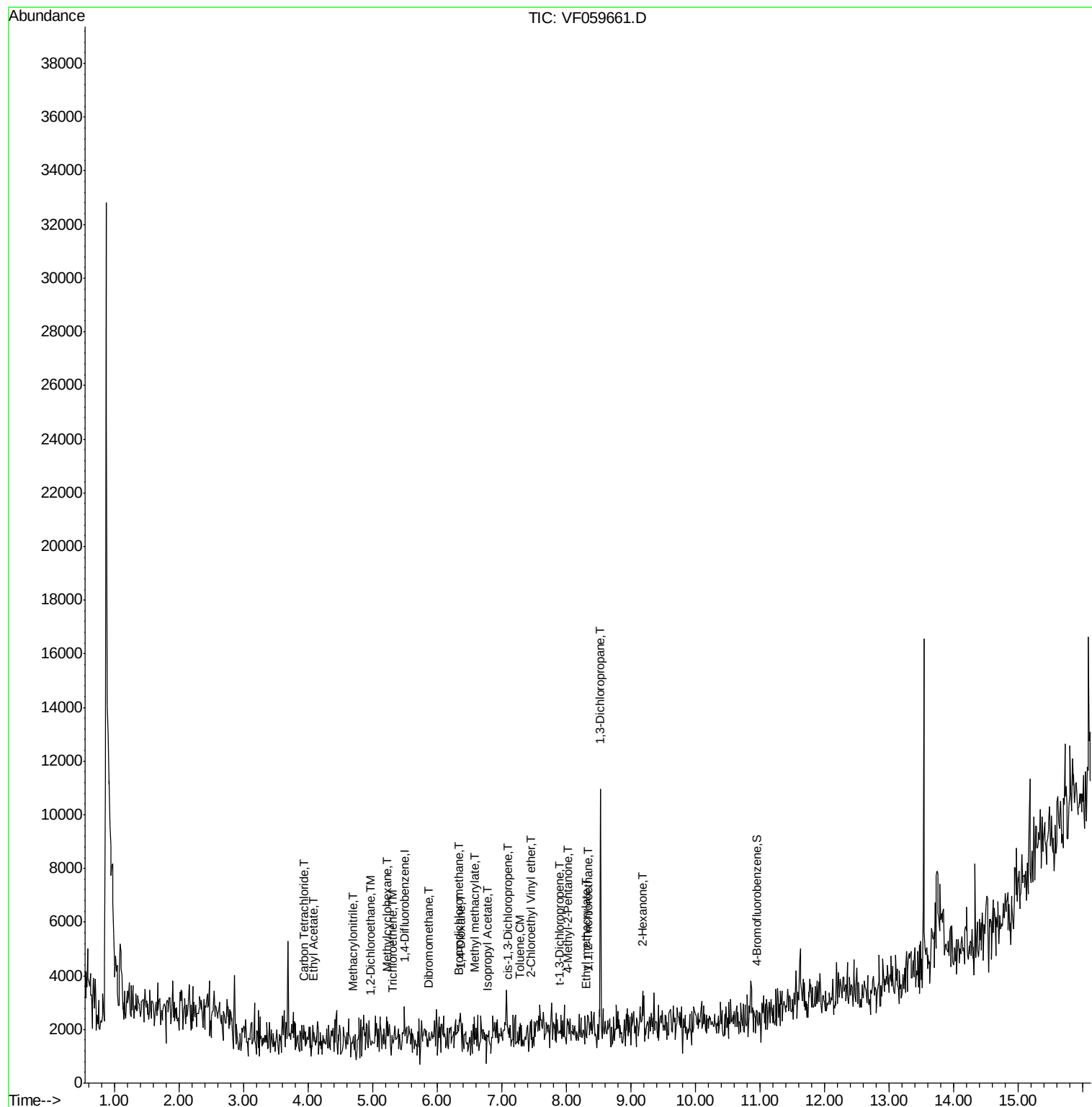
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
37) Ethyl Acetate	4.06	43	66	345.11	ug/l #	1
38) Carbon Tetrachloride	3.94	117	96	115.08	ug/l #	9
39) Methylcyclohexane	5.22	83	82	167.26	ug/l #	9
41) Methacrylonitrile	4.68	41	79	698.69	ug/l #	22
42) 1,2-Dichloroethane	4.97	62	61	92.06	ug/l	84
43) Isopropyl Acetate	6.77	43	96	361.10	ug/l #	50
44) Trichloroethene	5.31	130	64	155.07	ug/l	1
46) Dibromomethane	5.88	93	65	271.81	ug/l #	3
47) Bromodichloromethane	6.33	83	85	121.57	ug/l #	28
48) Methyl methacrylate	6.57	41	96	490.54	ug/l #	13
49) 1,4-Dioxane	6.37	88	63	41832.65	ug/l #	22
51) 4-Methyl-2-Pentanone	8.02	43	66	337.78	ug/l #	41
52) Toluene	7.30	92	78	112.57	ug/l #	1
53) t-1,3-Dichloropropene	7.90	75	68	122.05	ug/l #	43
54) cis-1,3-Dichloropropene	7.10	75	78	132.44	ug/l #	18
55) 1,1,2-Trichloroethane	8.33	97	63	252.69	ug/l #	14
56) Ethyl methacrylate	8.31	69	178	667.89	ug/l #	32
57) 1,3-Dichloropropane	8.52	76	63	147.59	ug/l #	43
58) 2-Chloroethyl Vinyl ether	7.43	63	64	1870.86	ug/l	100
59) 2-Hexanone	9.19	43	87	583.05	ug/l #	29

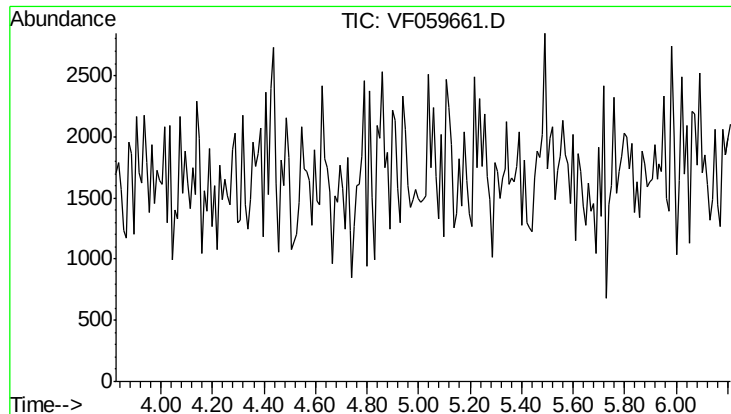
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.00 ug/l

Expected RT: 5.02 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

Tot Ion: 168

Sig Exp Ratio

168 100

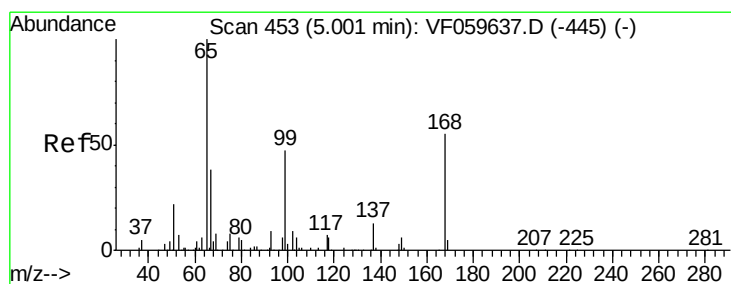
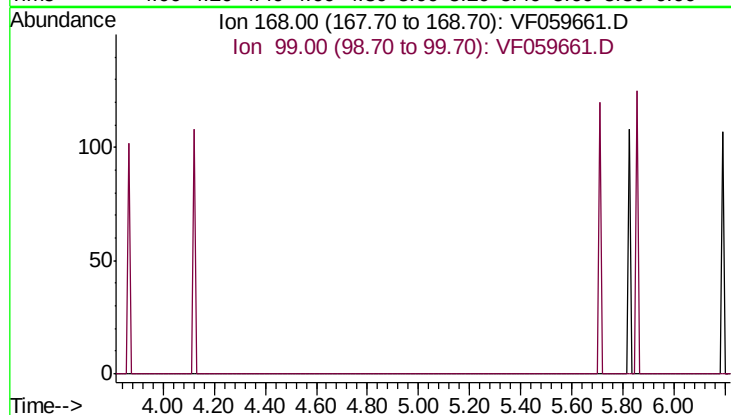
99 74.4

Instrument :

MSVOA_F

ClientSampleId :

TP-2



#33

1,2-Dichloroethane-d4

Concen: 0.00 ug/l

RT: 4.87 min Scan# 440

Delta R.T. -0.13 min

Lab File: VF059661.D

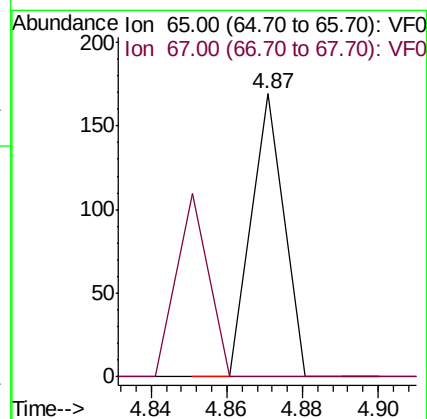
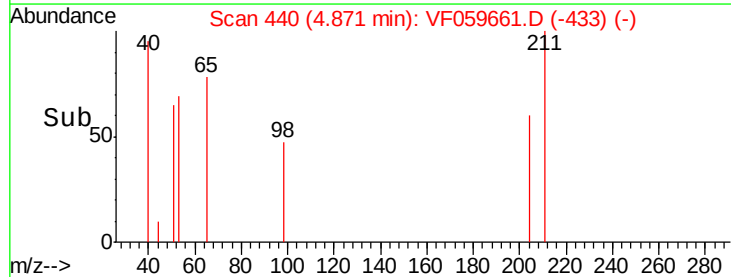
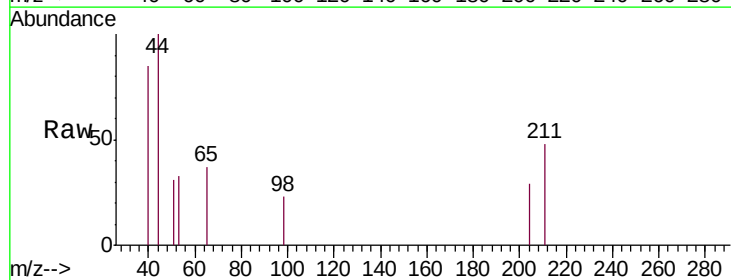
Acq: 25 Jul 2018 16:49

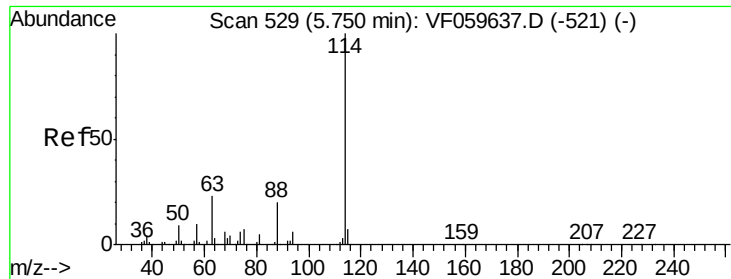
Tgt Ion: 65 Resp: 100

Ion Ratio Lower Upper

65 100

67 0.0 0.0 86.6

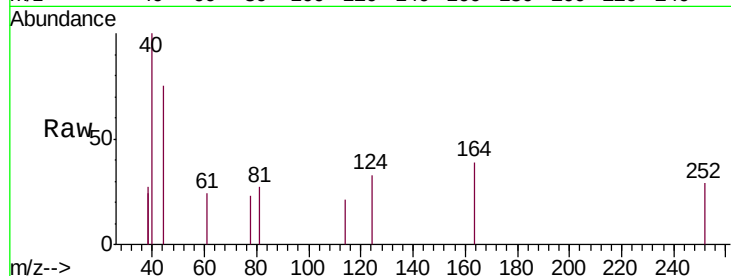




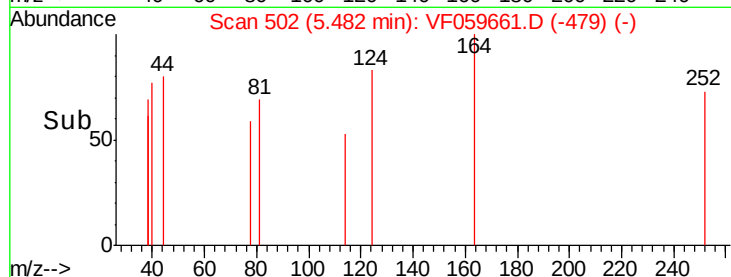
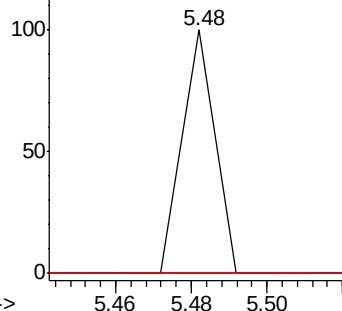
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 5.48 min Scan# 502
Delta R.T. -0.27 min
Lab File: VF059661.D
Acq: 25 Jul 2018 16:49

Instrument :
MSVOA_F
ClientSampled :
TP-2

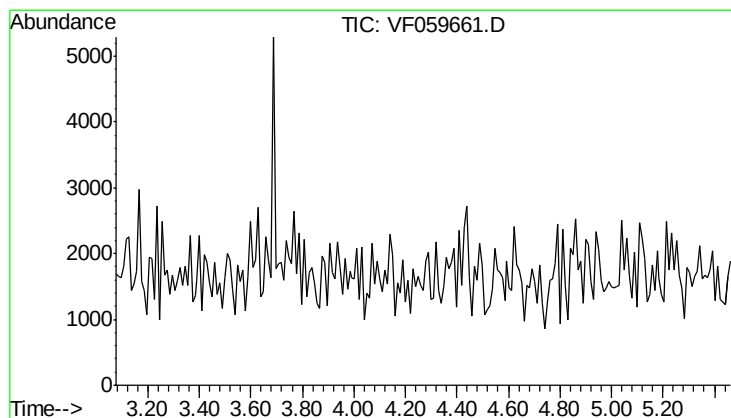
Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	45.6
88	0.0	0.0	40.8



Abundance Ion 114.00 (113.70 to 114.70): VF0
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0



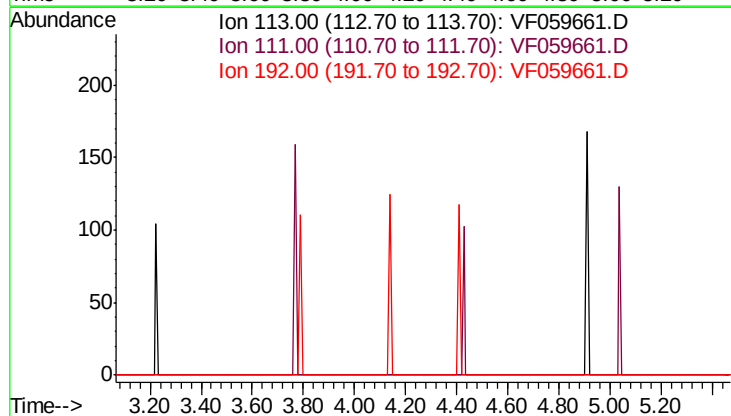
Time-->

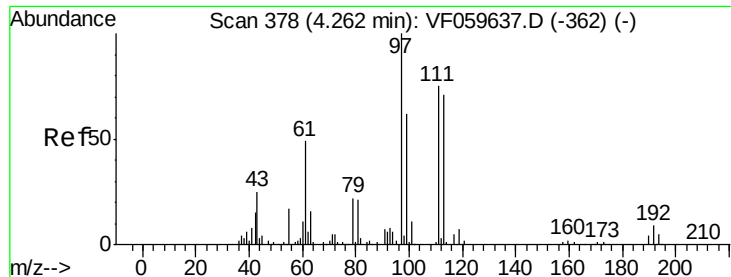


#35
Dibromofluoromethane
Concen: 0.00 ug/l
Expected RT: 4.27 min

Lab File: VF059661.D
Acq: 25 Jul 2018 16:49

Tgt Ion	Exp Ratio
113	100
111	99.1
192	16.8





#37

Ethyl Acetate

Concen: 345.11 ug/l

RT: 4.06 min Scan# 358

Delta R.T. -0.20 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

TP-2

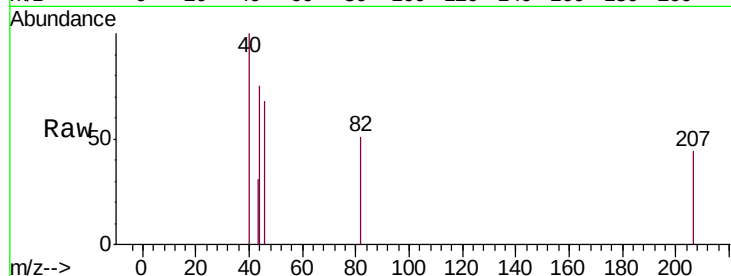
Tot Ion: 43 Resp: 66

Ion Ratio Lower Upper

43 100

61 0.0 156.6 234.8#

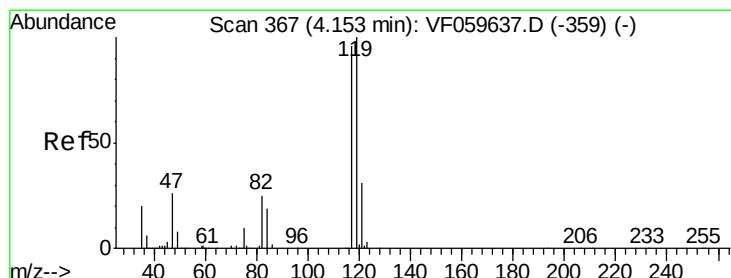
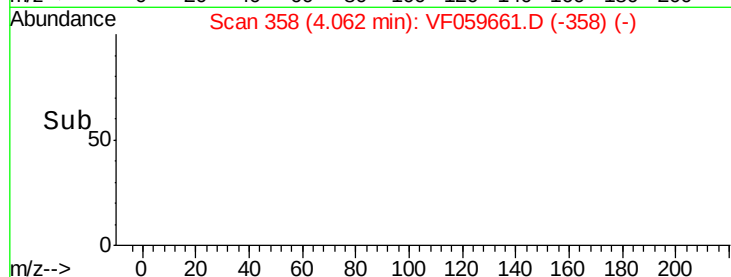
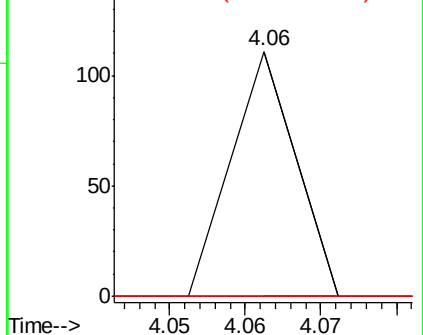
70 0.0 7.3 10.9#



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



#38

Carbon Tetrachloride

Concen: 115.08 ug/l

RT: 3.94 min Scan# 346

Delta R.T. -0.21 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

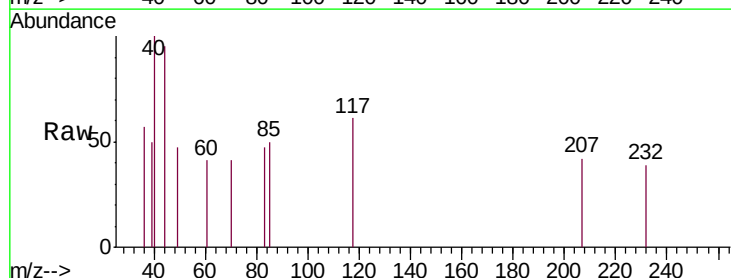
Tgt Ion: 117 Resp: 96

Ion Ratio Lower Upper

117 100

119 0.0 83.0 124.6#

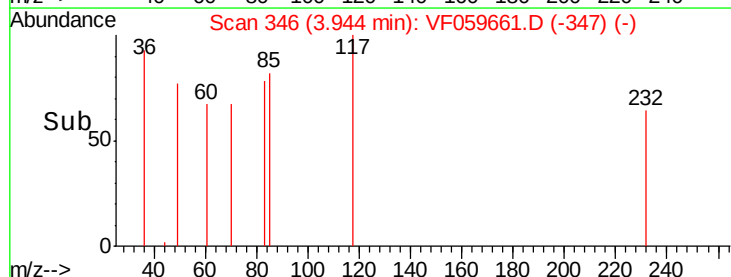
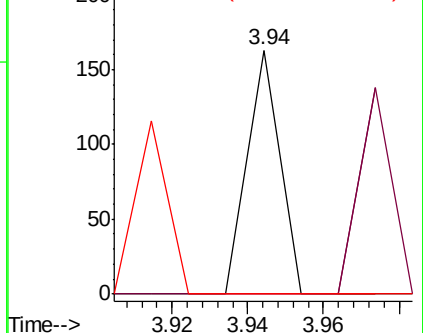
121 0.0 26.2 39.4#

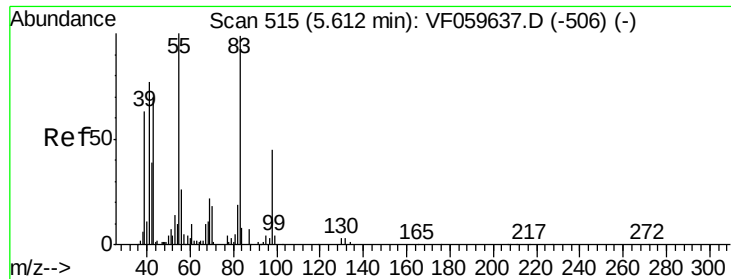


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

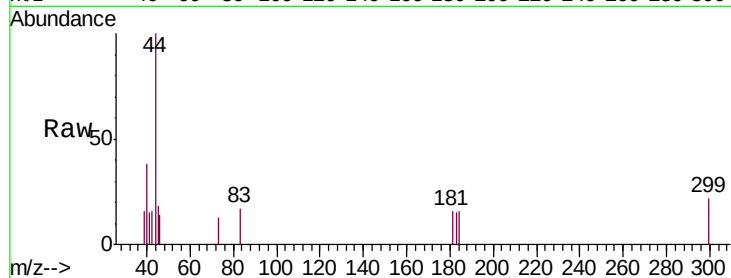




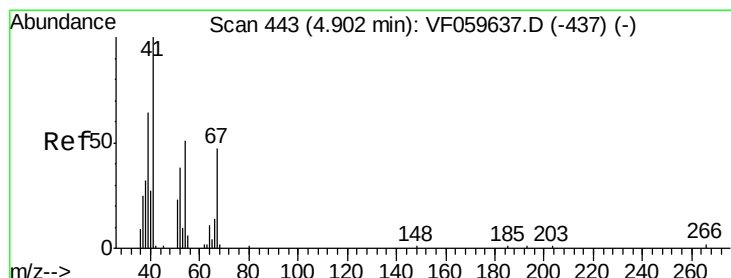
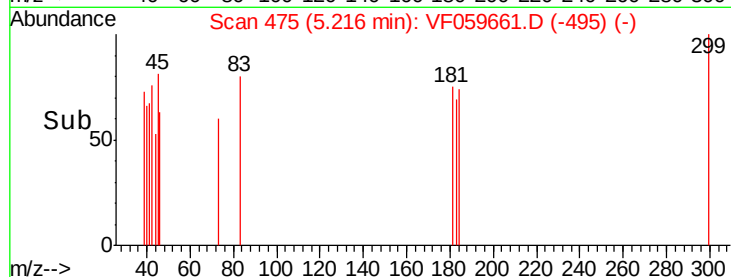
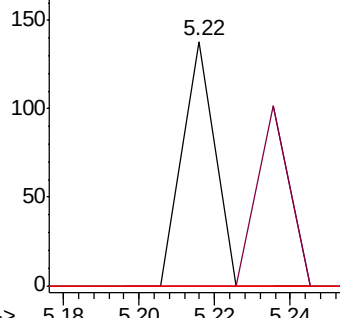
#39
Methylcyclohexane
Concen: 167.26 ug/l
RT: 5.22 min Scan# 475
Delta R.T. -0.40 min
Lab File: VF059661.D
Acq: 25 Jul 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
TP-2

Tot Ion	Ratio	Lower	Upper
83	100		
55	0.0	81.5	122.3#
98	0.0	36.7	55.1#

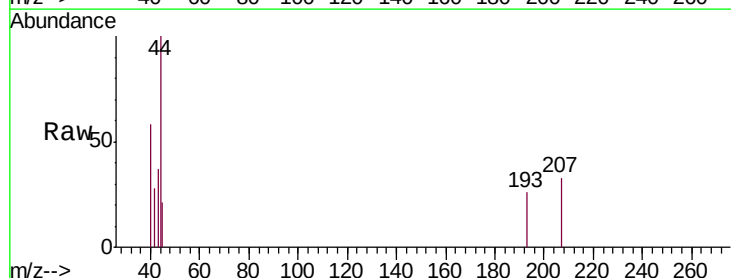


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

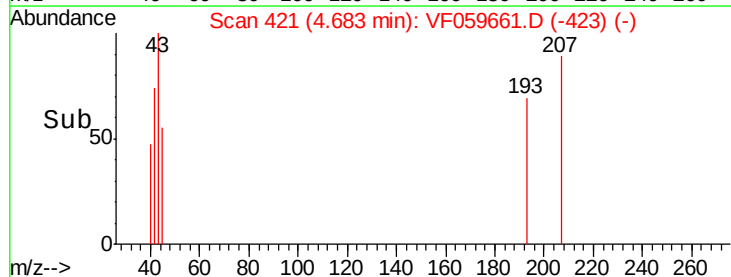
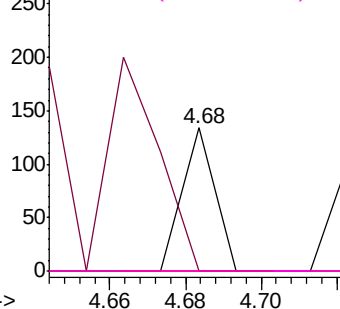


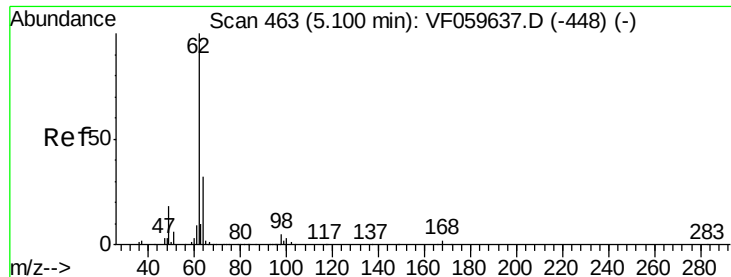
#41
Methacrylonitrile
Concen: 698.69 ug/l
RT: 4.68 min Scan# 421
Delta R.T. -0.22 min
Lab File: VF059661.D
Acq: 25 Jul 2018 16:49

Tgt Ion	Ratio	Lower	Upper
41	100		
39	0.0	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





#42

1,2-Dichloroethane

Concen: 92.06 ug/l

RT: 4.97 min Scan# 450

Delta R.T. -0.13 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

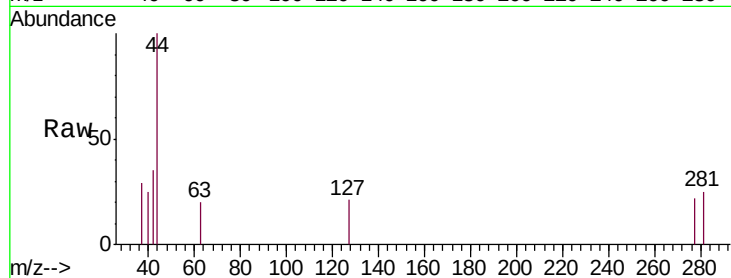
Instrument :
MSVOA_F
ClientSampled :
TP-2

Tot Ion: 62 Resp: 61

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

4.97

100

80

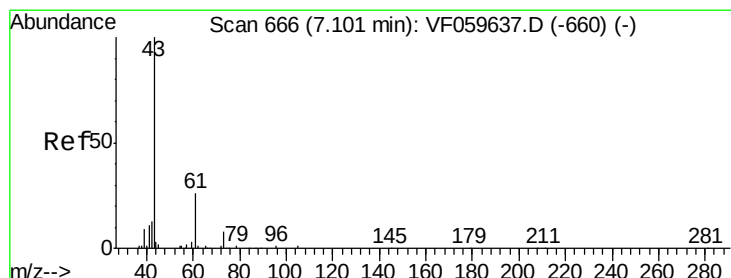
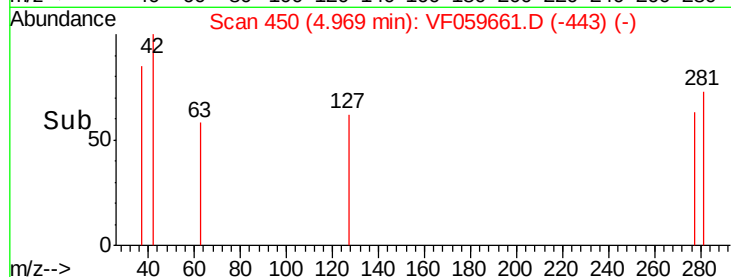
60

40

20

0

Time-->



#43

Isopropyl Acetate

Concen: 361.10 ug/l

RT: 6.77 min Scan# 633

Delta R.T. -0.33 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

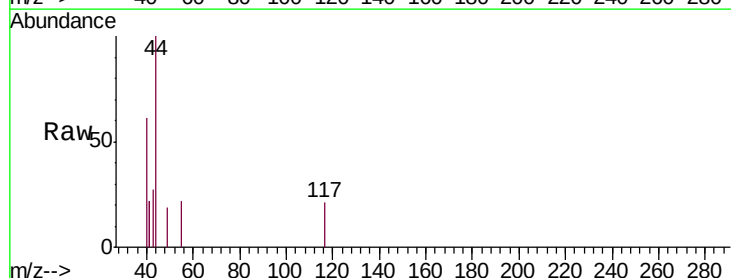
Tgt Ion: 43 Resp: 96

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

200

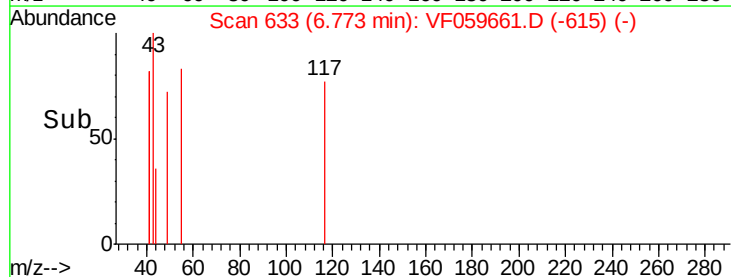
150

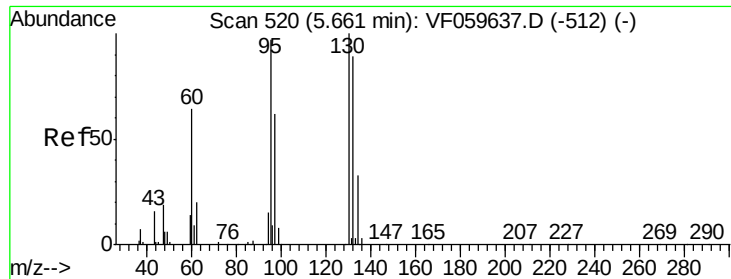
100

50

0

Time-->





#44

Trichloroethene

Concen: 155.07 ug/l

RT: 5.31 min Scan# 485

Delta R.T. -0.35 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

Instrument :

MSVOA_F

ClientSampled :

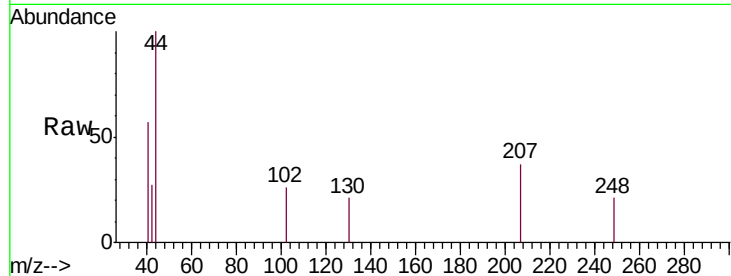
TP-2

Tot Ion:130 Resp: 64

Ion Ratio Lower Upper

130 100

95 0.0 0.0 193.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

5.31

120

100

80

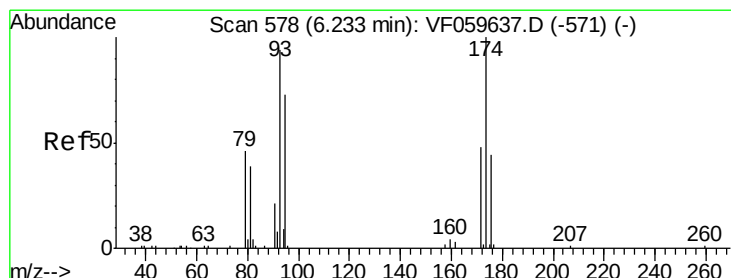
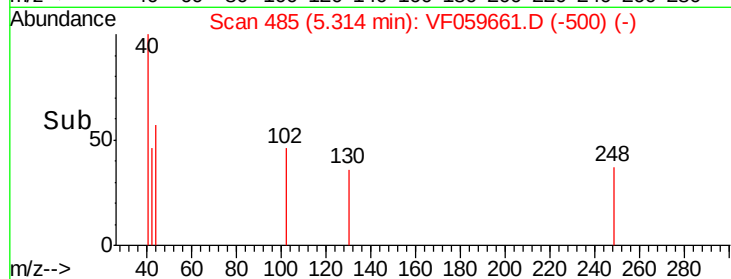
60

40

20

0

Time--> 5.28 5.30 5.32 5.34



#46

Dibromomethane

Concen: 271.81 ug/l

RT: 5.88 min Scan# 542

Delta R.T. -0.36 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

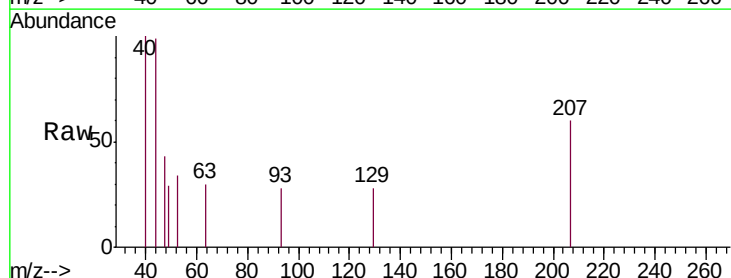
Tgt Ion: 93 Resp: 65

Ion Ratio Lower Upper

93 100

95 0.0 63.1 94.7#

174 0.0 85.3 127.9#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

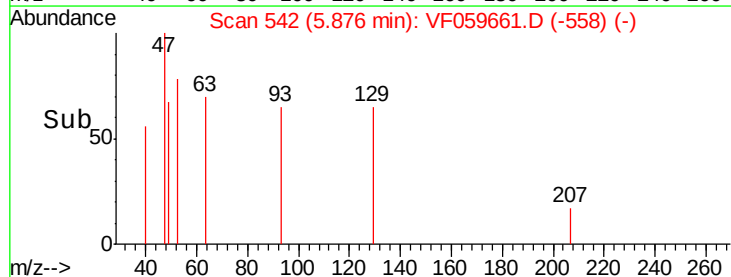
150

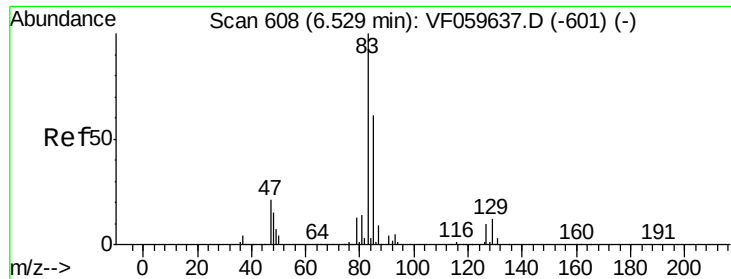
100

50

0

Time--> 5.84 5.86 5.88 5.90





#47

Bromodichloromethane

Concen: 121.57 ug/l

RT: 6.33 min Scan# 588

Delta R.T. -0.20 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

TP-2

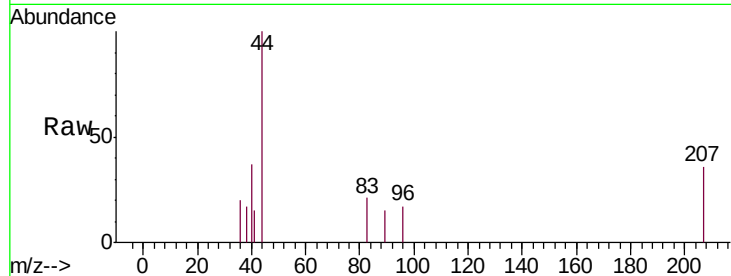
Tot Ion: 83 Resp: 85

Ion Ratio Lower Upper

83 100

85 0.0 48.6 72.8#

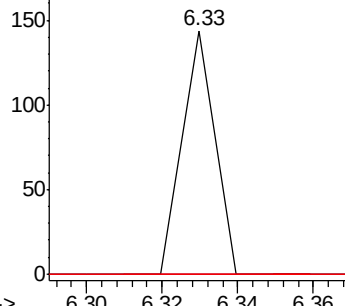
127 0.0 7.7 11.5#



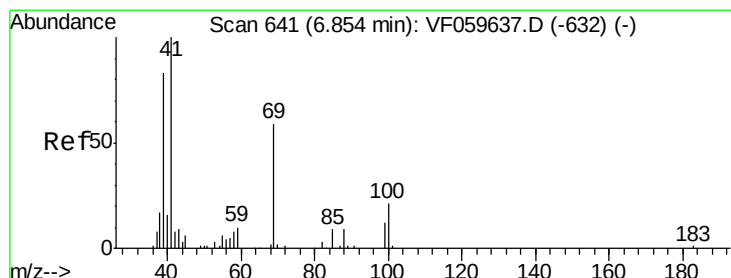
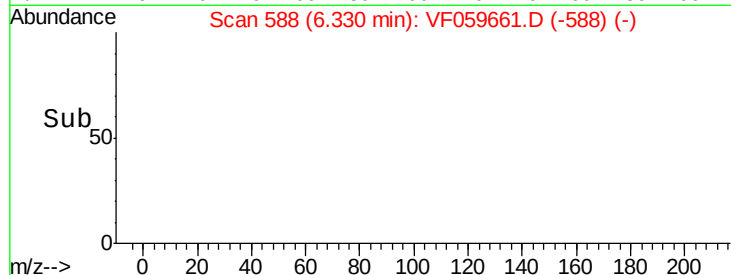
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



Time-->



#48

Methyl methacrylate

Concen: 490.54 ug/l

RT: 6.57 min Scan# 612

Delta R.T. -0.29 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

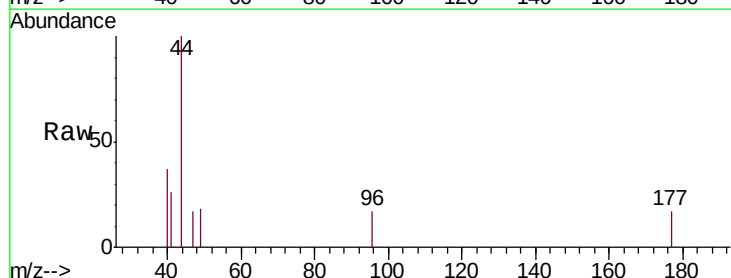
Tgt Ion: 41 Resp: 96

Ion Ratio Lower Upper

41 100

69 0.0 47.5 71.3#

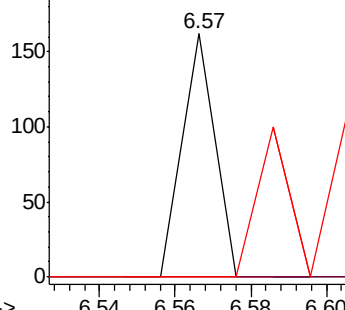
39 0.0 67.0 100.6#



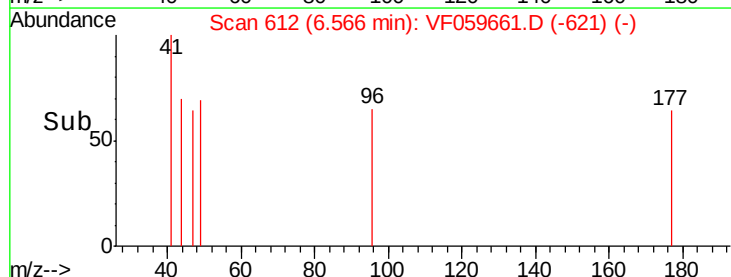
Abundance Ion 41.00 (40.70 to 41.70): VF0

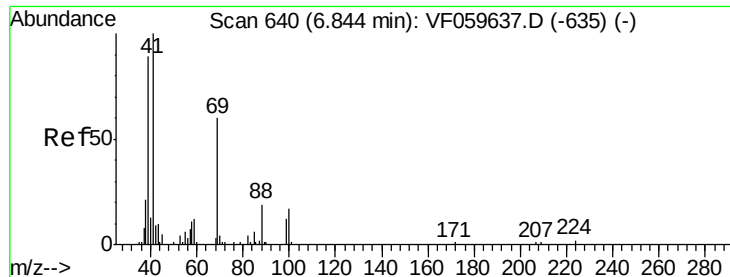
Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->





#49

1,4-Dioxane

Concen: 41832.65 ug/l

RT: 6.37 min Scan# 592

Delta R.T. -0.48 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

TP-2

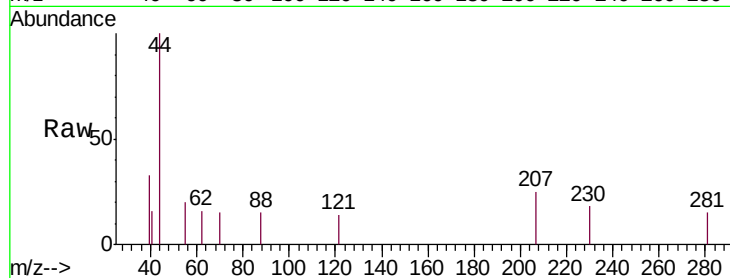
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 45.3 67.9#

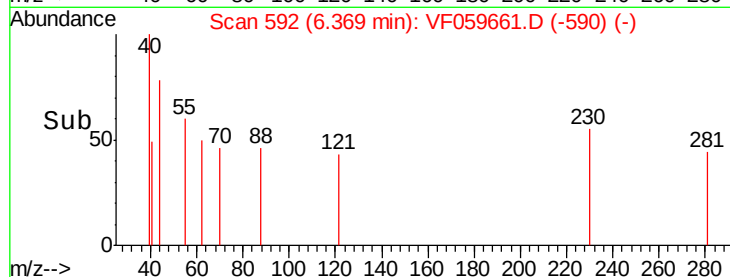
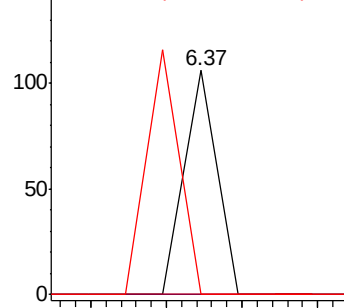
58 0.0 47.7 71.5#



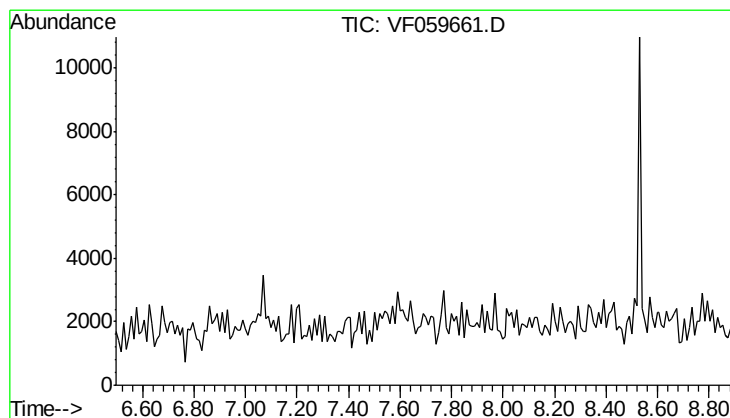
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 0.00 ug/l

Expected RT: 7.69 min

Lab File: VF059661.D

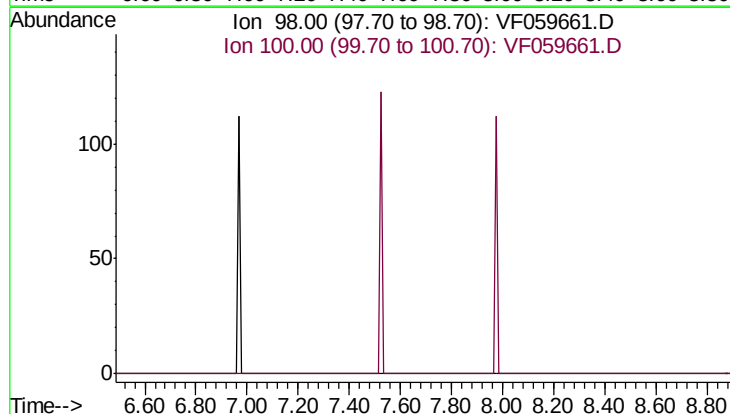
Acq: 25 Jul 2018 16:49

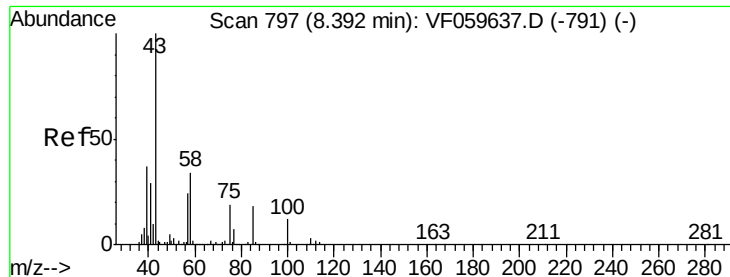
Tgt Ion: 98

Sig Exp Ratio

98 100

100 65.3





#51

4-Methyl-2-Pentanone

Concen: 337.78 ug/l

RT: 8.02 min Scan# 759

Delta R.T. -0.38 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

Instrument :

MSVOA_F

ClientSampled :

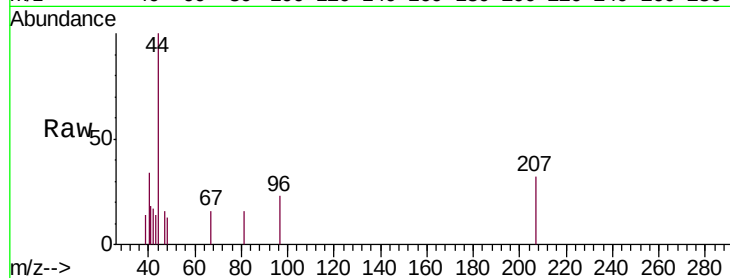
TP-2

Tot Ion: 43 Resp: 66

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

8.02

120

100

80

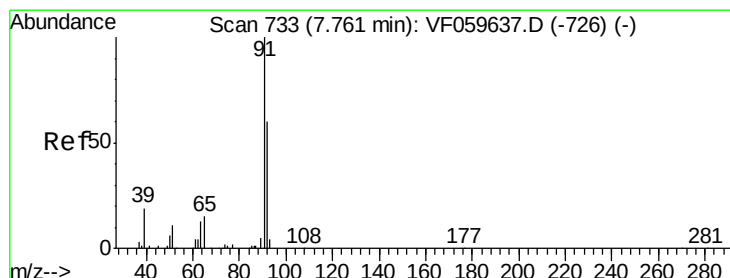
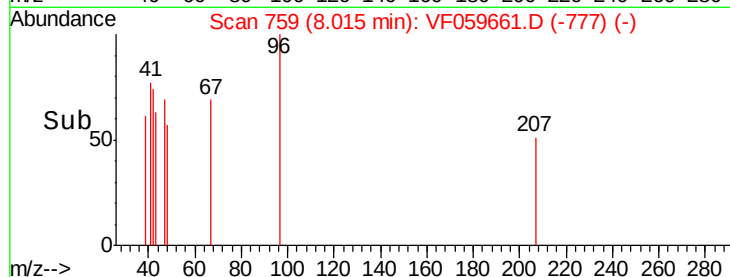
60

40

20

0

Time--> 7.98 8.00 8.02 8.04



#52

Toluene

Concen: 112.57 ug/l

RT: 7.30 min Scan# 686

Delta R.T. -0.47 min

Lab File: VF059661.D

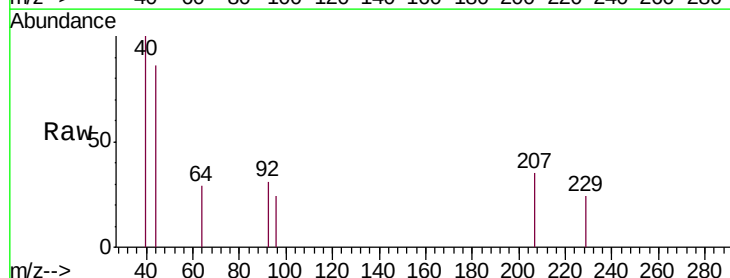
Acq: 25 Jul 2018 16:49

Tgt Ion: 92 Resp: 78

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

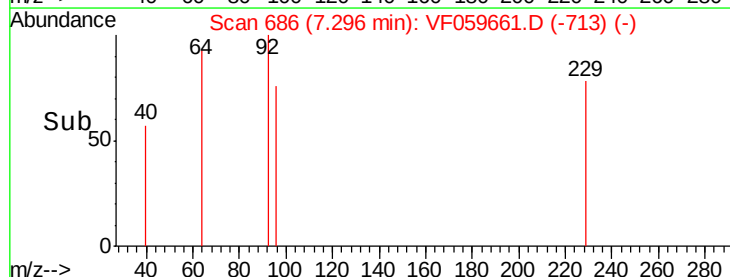
150

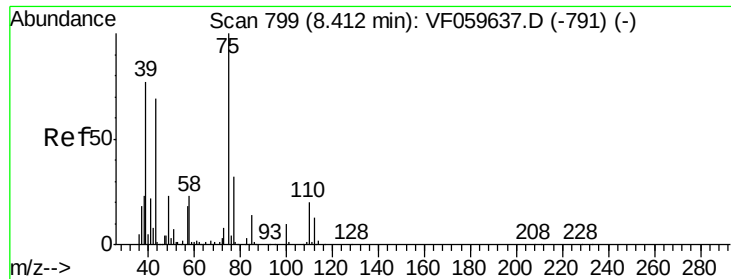
100

50

0

Time--> 7.28 7.30 7.32





#53

t-1,3-Dichloropropene

Concen: 122.05 ug/l

RT: 7.90 min Scan# 747

Delta R.T. -0.51 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

Instrument :

MSVOA_F

ClientSampled :

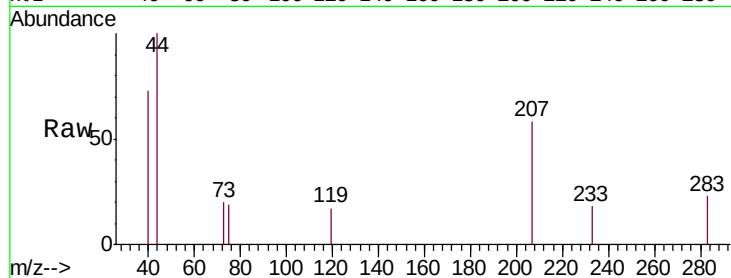
TP-2

Tot Ion: 75 Resp: 68

Ion Ratio Lower Upper

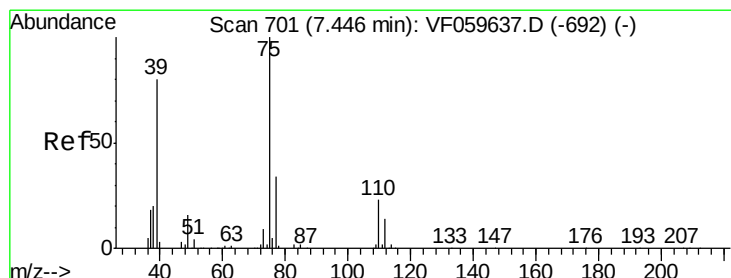
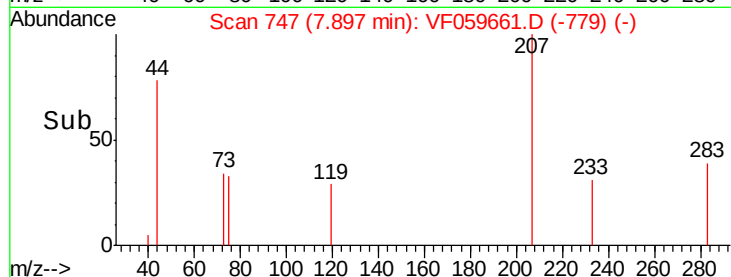
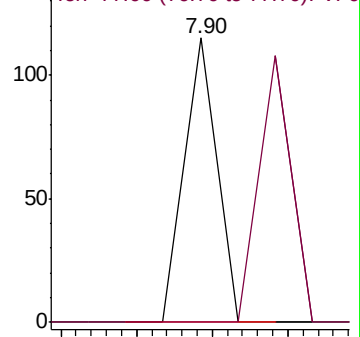
75 100

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



#54

cis-1,3-Dichloropropene

Concen: 132.44 ug/l

RT: 7.10 min Scan# 666

Delta R.T. -0.35 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

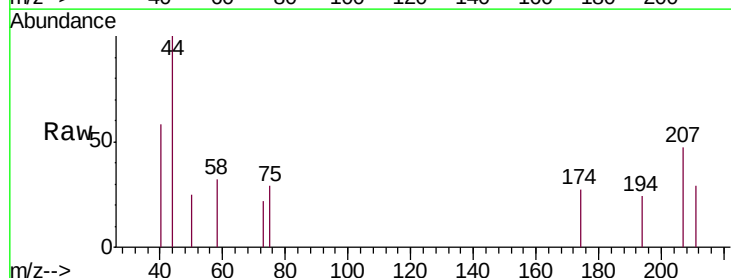
Tgt Ion: 75 Resp: 78

Ion Ratio Lower Upper

75 100

77 0.0 27.5 41.3#

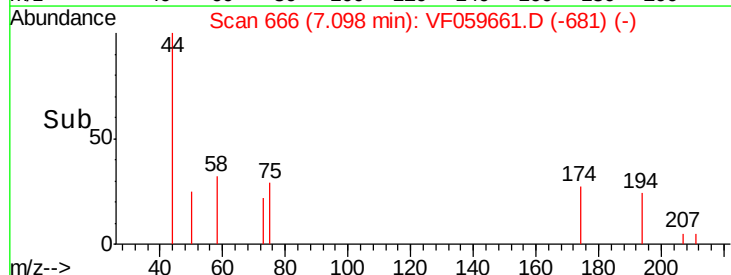
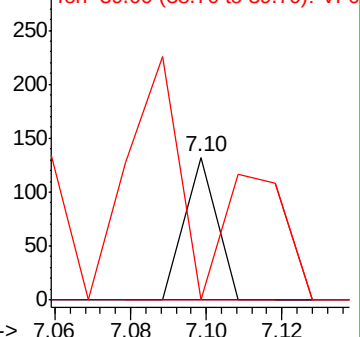
39 0.0 64.4 96.6#

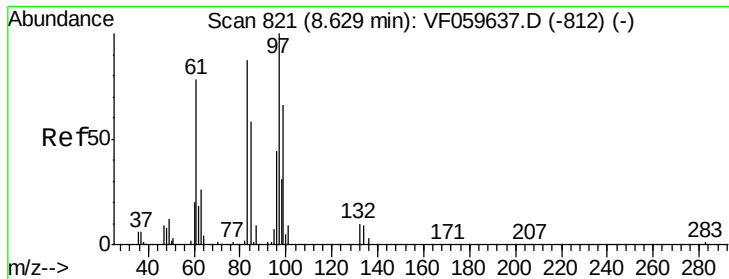


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

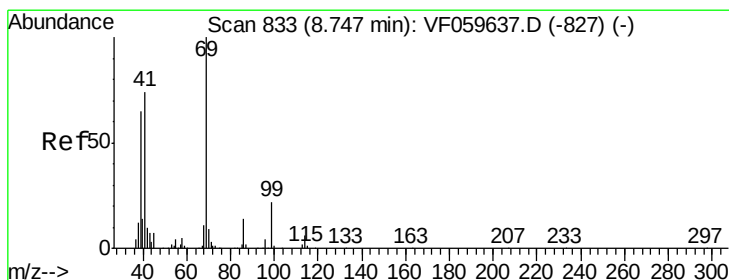
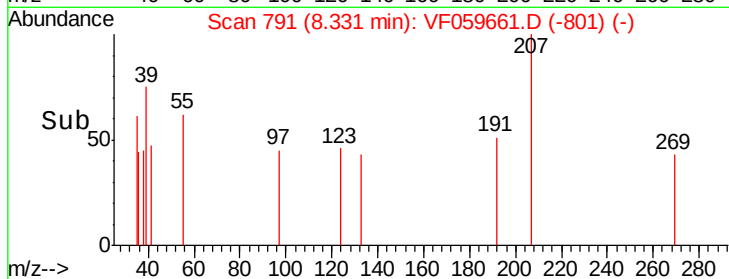
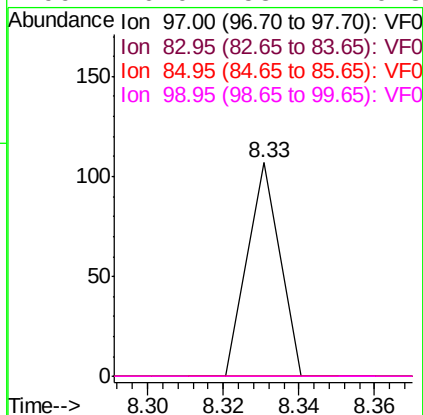
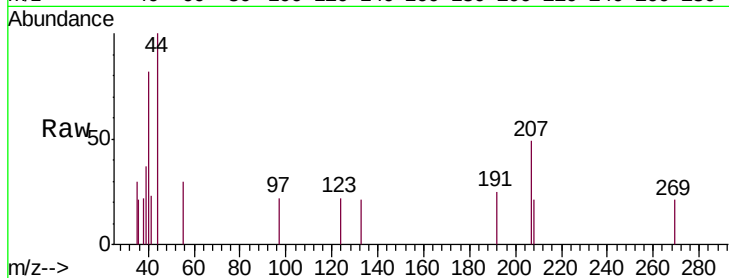




#55
 1,1,2-Trichloroethane
 Concen: 252.69 ug/l
 RT: 8.33 min Scan# 791
 Delta R.T. -0.30 min
 Lab File: VF059661.D
 Acq: 25 Jul 2018 16:49

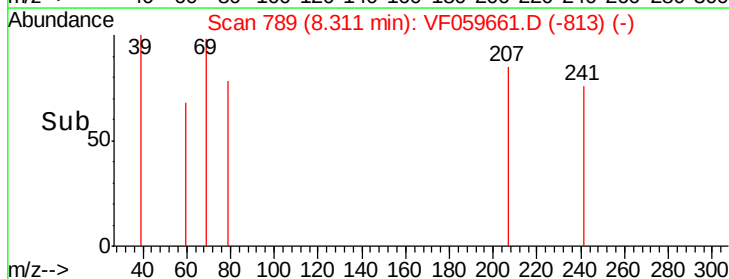
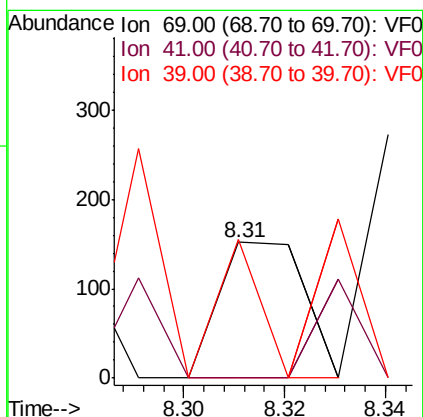
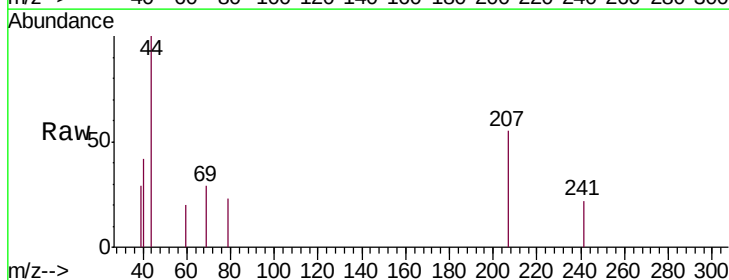
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-2

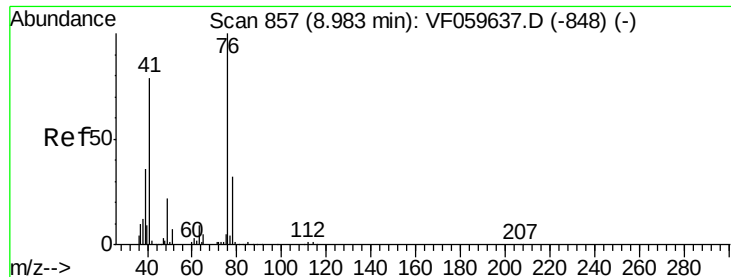
Tot Ion:	97	Resp:	63
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.5	104.3#
85	0.0	46.0	69.0#
99	0.0	53.2	79.8#



#56
 Ethyl methacrylate
 Concen: 667.89 ug/l
 RT: 8.31 min Scan# 789
 Delta R.T. -0.44 min
 Lab File: VF059661.D
 Acq: 25 Jul 2018 16:49

Tgt Ion:	69	Resp:	178
Ion	Ratio	Lower	Upper
69	100		
41	0.0	59.1	88.7#
39	102.0	52.4	78.6#





#57

1,3-Dichloropropane

Concen: 147.59 ug/l

RT: 8.52 min Scan# 810

Delta R.T. -0.47 min

Lab File: VF059661.D

Acq: 25 Jul 2018 16:49

Instrument :

MSVOA_F

ClientSampled :

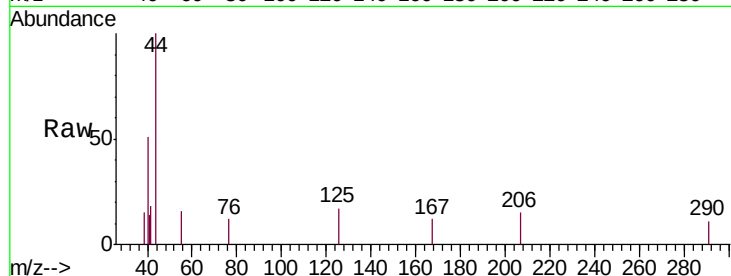
TP-2

Tot Ion: 76 Resp: 63

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

8.52

100

80

60

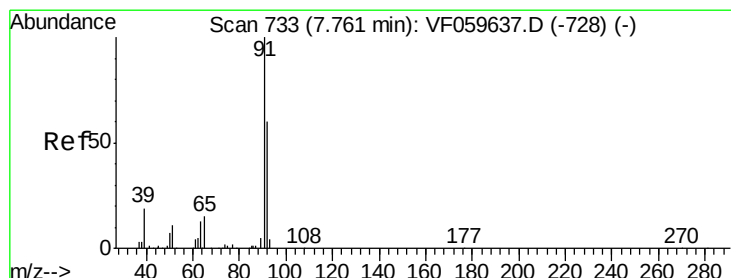
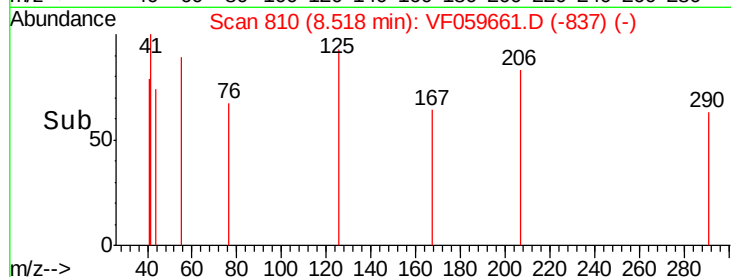
40

20

0

8.50 8.52 8.54

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1870.86 ug/l

RT: 7.43 min Scan# 700

Delta R.T. -0.33 min

Lab File: VF059661.D

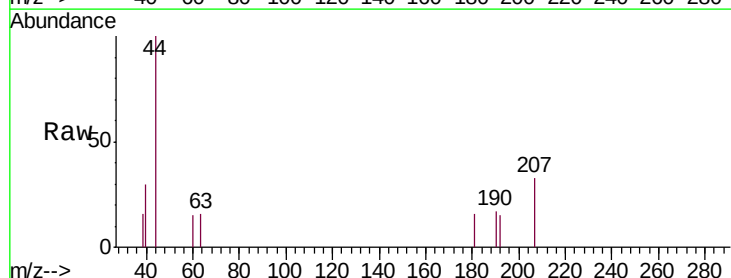
Acq: 25 Jul 2018 16:49

Tgt Ion: 63 Resp: 64

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

150

100

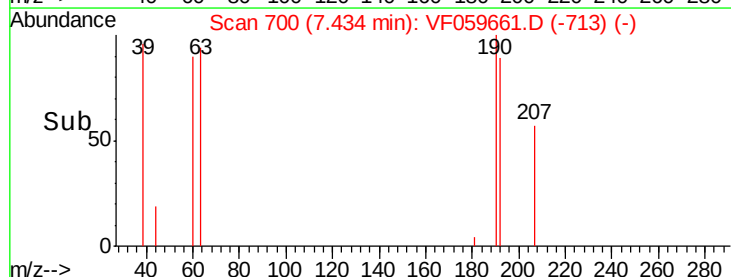
7.43

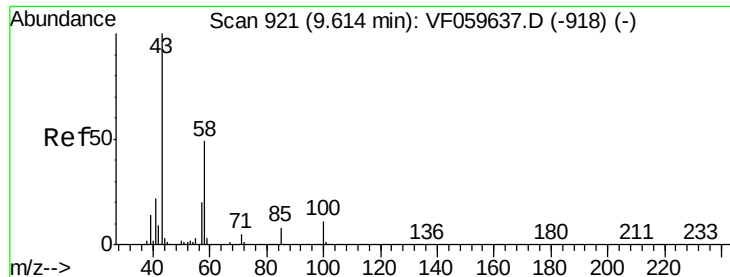
50

0

7.42 7.44 7.46

Time-->

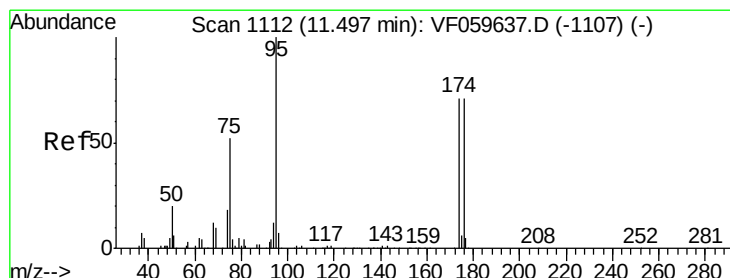
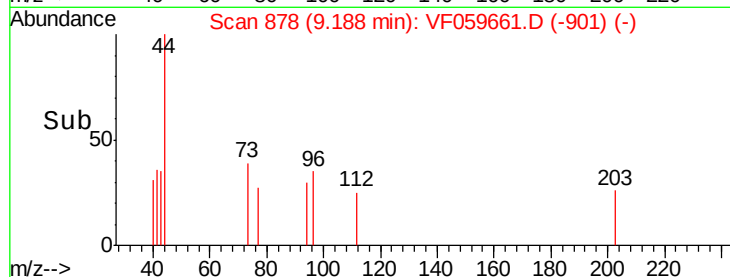
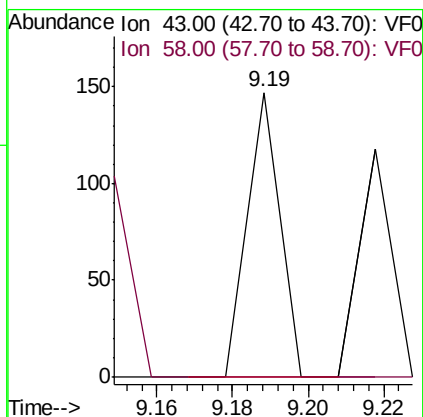
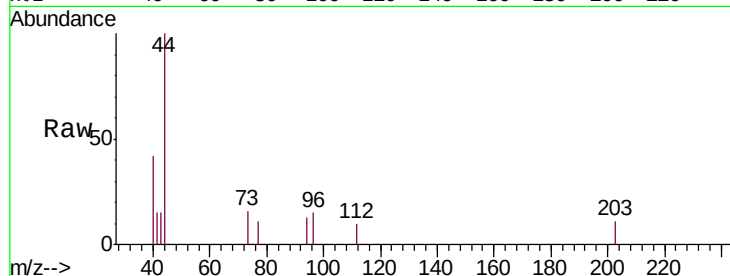




#59
2-Hexanone
Concen: 583.05 ug/l
RT: 9.19 min Scan# 878
Delta R.T. -0.43 min
Lab File: VF059661.D
Acq: 25 Jul 2018 16:49

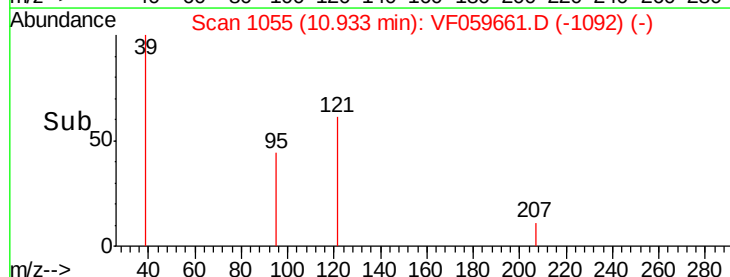
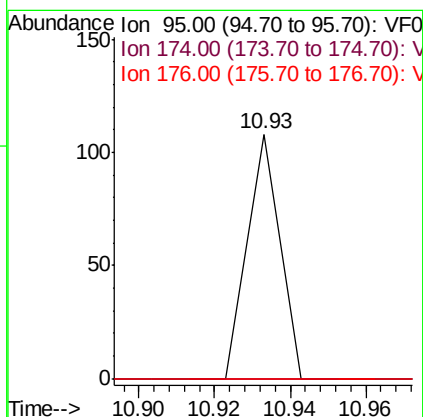
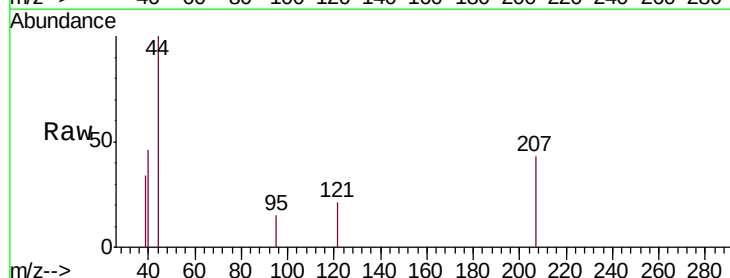
Instrument :
MSVOA_F
ClientSampleId :
TP-2

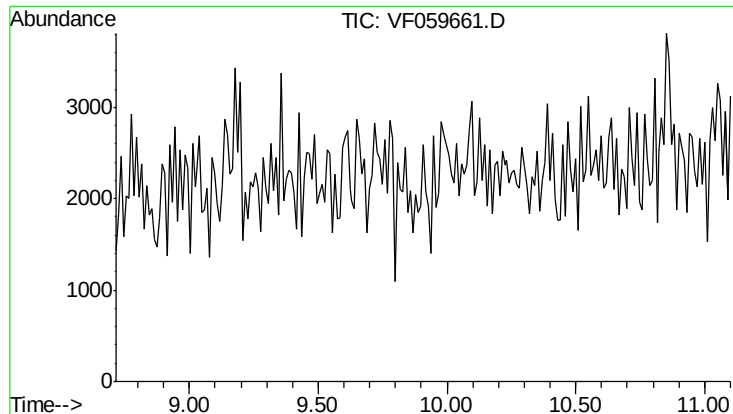
Tot Ion: 43 Resp: 87
Ion Ratio Lower Upper
43 100
58 0.0 23.6 71.0#



#62
4-Bromofluorobenzene
Concen: 96.24 ug/l
RT: 10.93 min Scan# 1055
Delta R.T. -0.56 min
Lab File: VF059661.D
Acq: 25 Jul 2018 16:49

Tgt Ion: 95 Resp: 64
Ion Ratio Lower Upper
95 100
174 0.0 0.0 141.8
176 0.0 0.0 142.0



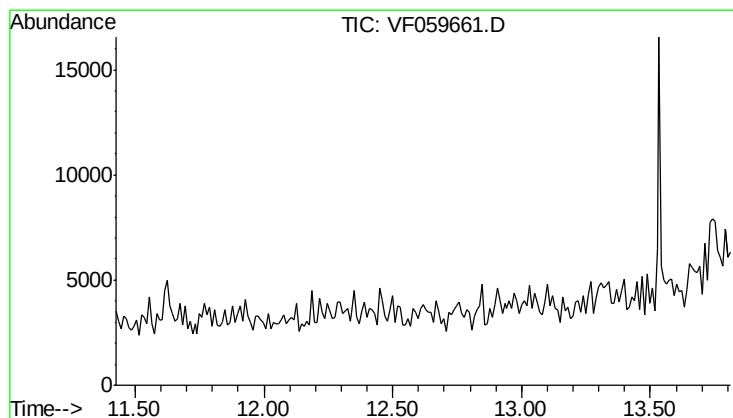
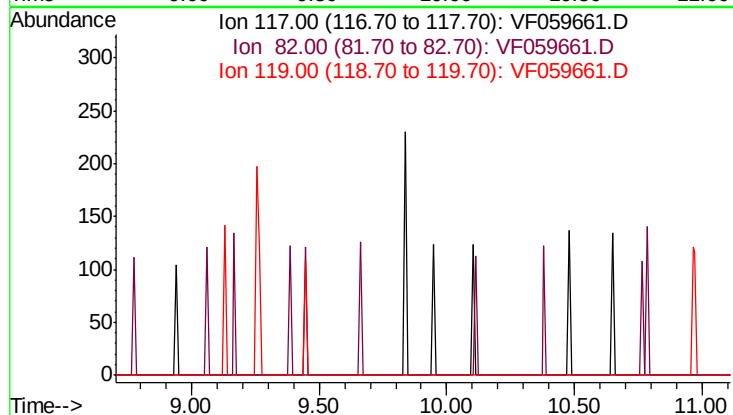


#63
 Chlorobenzene-d5
 Concen: 0.00 ug/l
 Expected RT: 9.91 min

Lab File: VF059661.D
 Acq: 25 Jul 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-2

Tot 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: VF059661.D
 Acq: 25 Jul 2018 16:49

Tgt Ion	152
Sig	Exp Ratio
152	100
115	64.1
150	156.6

