

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080118\
 Data File : VF059780.D
 Acq On : 2 Aug 2018 4:24
 Operator : VA/AP
 Sample : J4164-09
 Misc : 11.74g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(3-5)

Quant Time: Aug 02 05:36:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 15:23:22 2018
 Response via : Initial Calibration

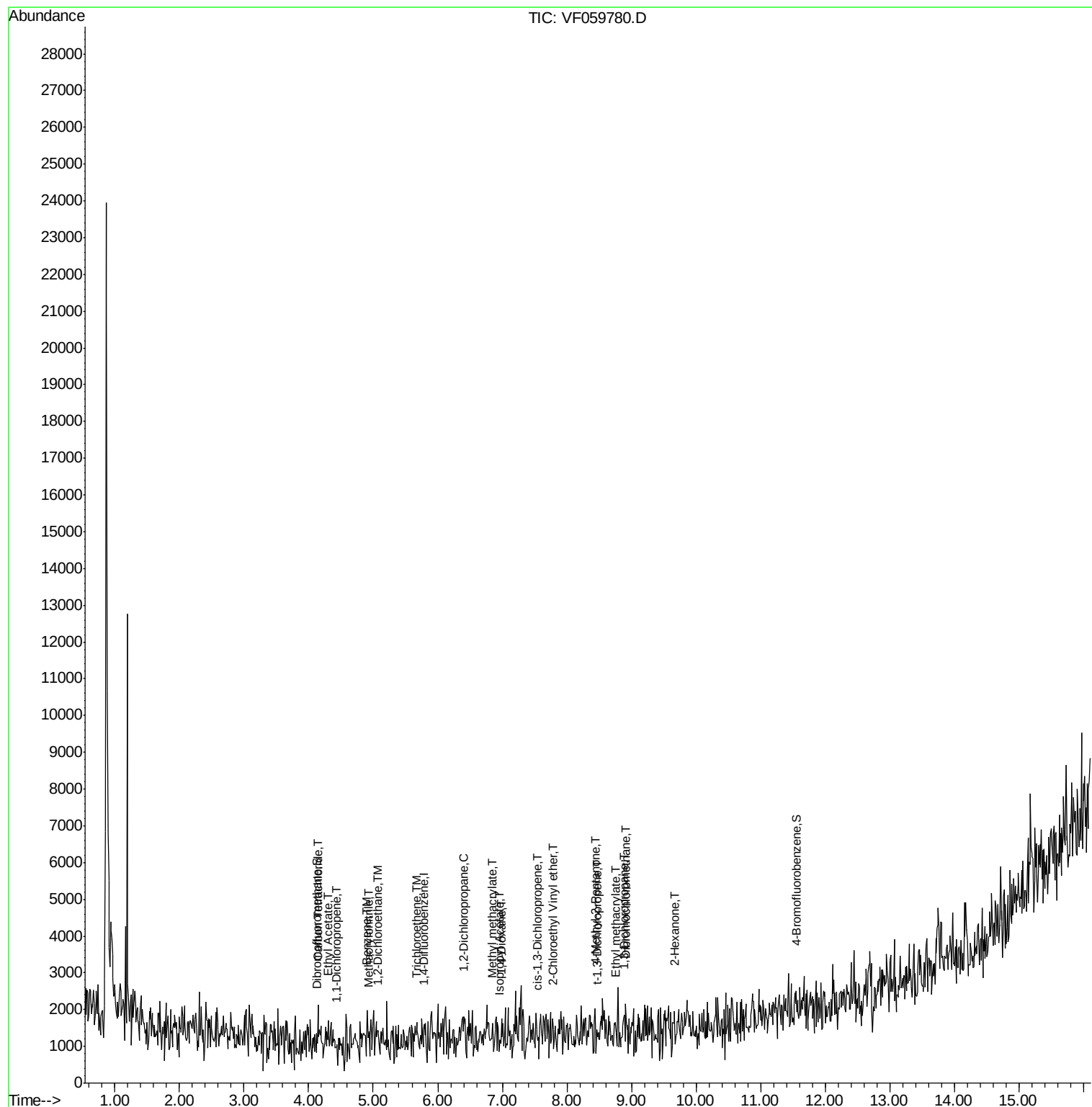
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.03
34) 1,4-Difluorobenzene	5.77	114	60	50.00	ug/l	0.01
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.91
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.63
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.05	65	75	0.00	ug/l	0.04
Spiked Amount 50.000			Recovery	=	0.00%	
35) Dibromofluoromethane	4.12	113	61	97.88	ug/l	-0.17
Spiked Amount 50.000			Recovery	=	195.76%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount 50.000			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.56	95	80	99.44	ug/l	0.05
Spiked Amount 50.000			Recovery	=	198.88%	
Target Compounds						
					Qvalue	
36) 1,1-Dichloropropene	4.42	75	86	149.44	ug/l #	46
37) Ethyl Acetate	4.31	43	128	466.07	ug/l #	19
38) Carbon Tetrachloride	4.14	117	65	68.14	ug/l #	14
40) Benzene	4.90	78	97	80.05	ug/l #	52
41) Methacrylonitrile	4.95	41	216	1512.19	ug/l #	12
42) 1,2-Dichloroethane	5.06	62	68	80.19	ug/l	85
43) Isopropyl Acetate	6.97	43	102	284.30	ug/l #	46
44) Trichloroethene	5.69	130	66	175.62	ug/l	2
45) 1,2-Dichloropropane	6.39	63	80	250.01	ug/l #	43
48) Methyl methacrylate	6.85	41	163	604.02	ug/l #	13
49) 1,4-Dioxane	6.98	88	63	13317.81	ug/l #	21
51) 4-Methyl-2-Pentanone	8.44	43	77	282.14	ug/l #	42
53) t-1,3-Dichloropropene	8.45	75	65	90.55	ug/l #	41
54) cis-1,3-Dichloropropene	7.55	75	140	201.35	ug/l #	18
56) Ethyl methacrylate	8.74	69	105	306.81	ug/l #	51
57) 1,3-Dichloropropane	8.88	76	159	282.43	ug/l #	41
58) 2-Chloroethyl Vinyl ether	7.79	63	64	1619.69	ug/l	100
59) 2-Hexanone	9.67	43	230	1051.65	ug/l #	30
60) Dibromochloromethane	8.91	129	61	105.34	ug/l #	12

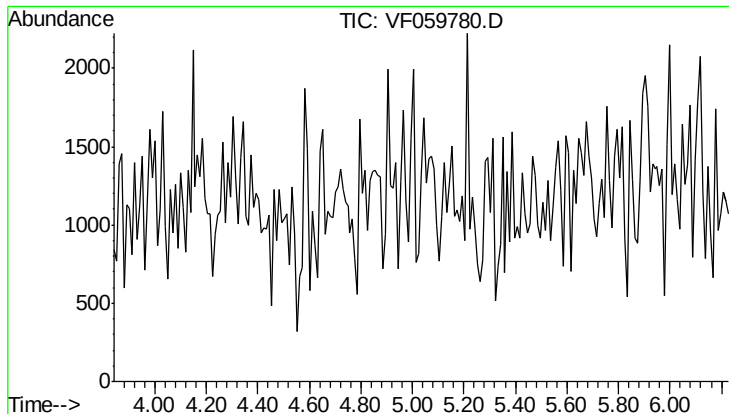
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.00 ug/l

Expected RT: 5.03 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

Tot Ion: 168

Sig Exp Ratio

168 100

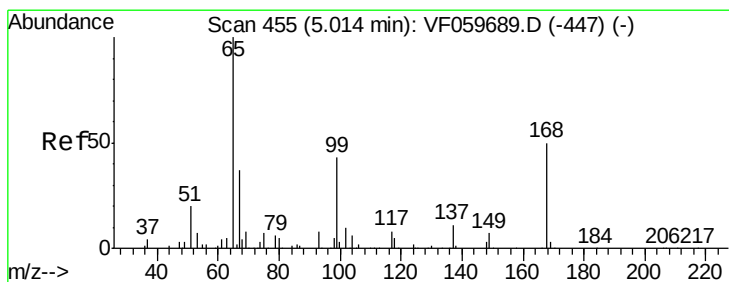
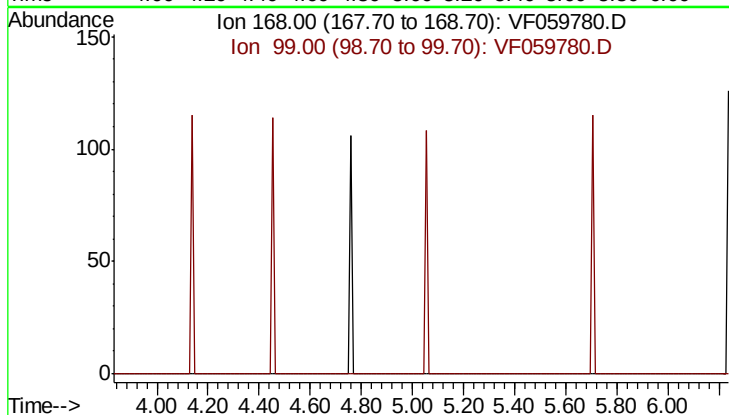
99 79.1

Instrument :

MSVOA_F

ClientSampleId :

SB-2(3-5)



#33

1,2-Dichloroethane-d4

Concen: 0.00 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.04 min

Lab File: VF059780.D

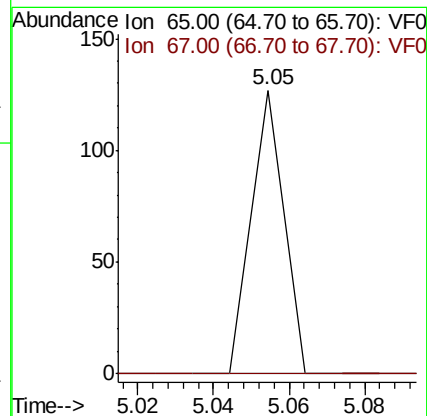
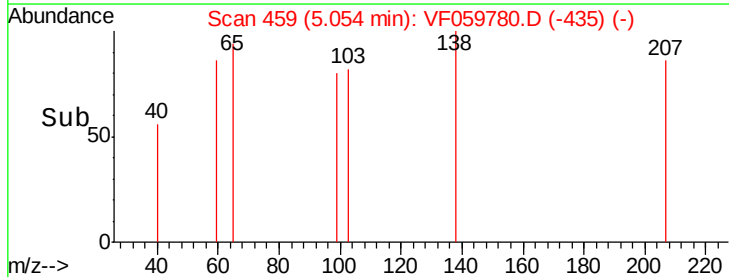
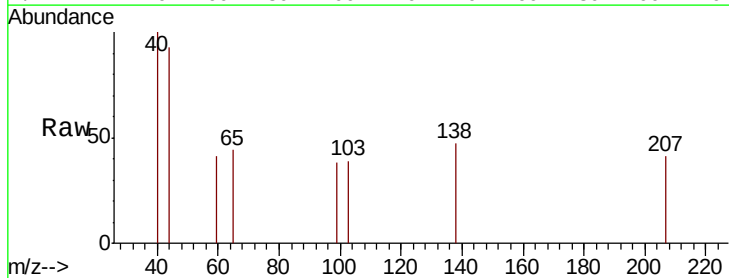
Acq: 2 Aug 2018 4:24

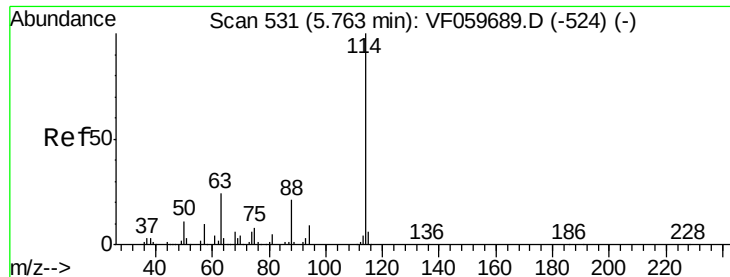
Tgt Ion: 65 Resp: 75

Ion Ratio Lower Upper

65 100

67 0.0 0.0 84.6

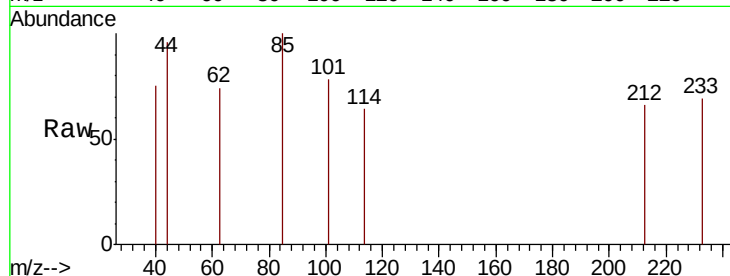




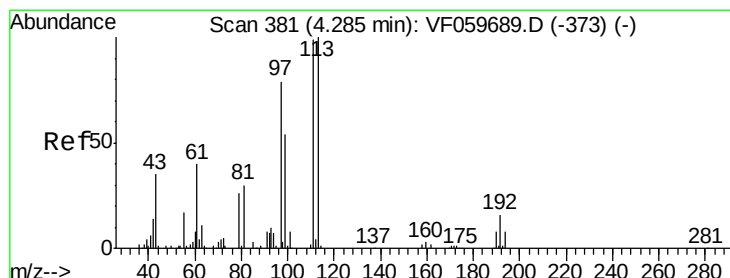
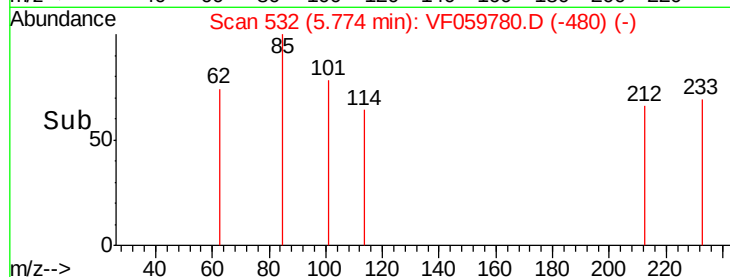
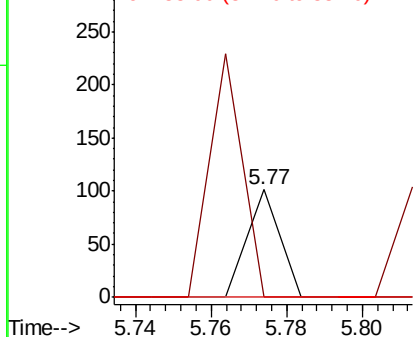
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF059780.D
 Acq: 2 Aug 2018 4:24

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(3-5)

Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	47.4
88	0.0	0.0	41.2

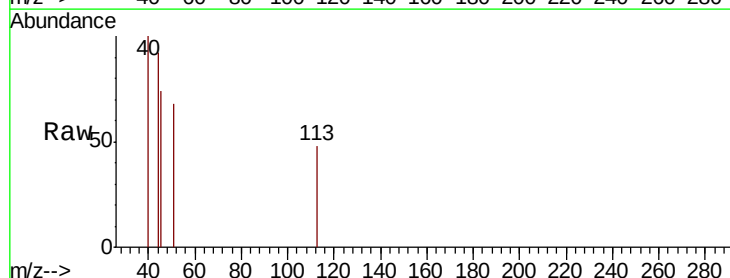


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

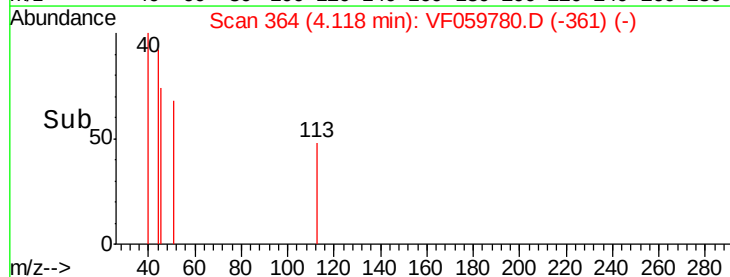
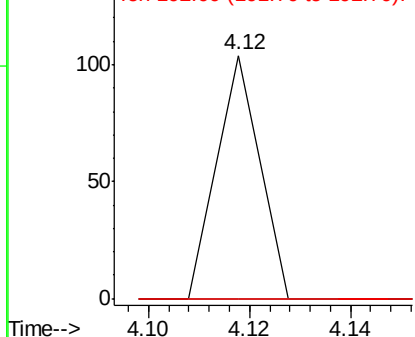


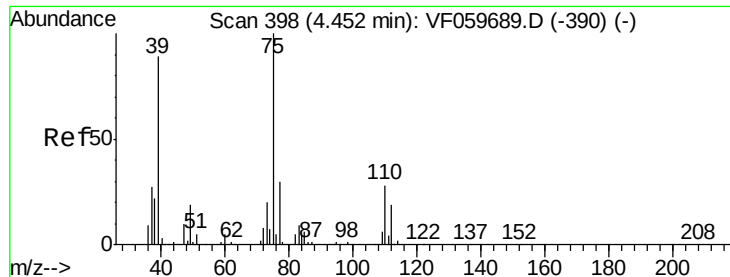
#35
 Dibromofluoromethane
 Concen: 97.88 ug/l
 RT: 4.12 min Scan# 364
 Delta R.T. -0.17 min
 Lab File: VF059780.D
 Acq: 2 Aug 2018 4:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	0.0	79.0	118.4#
192	0.0	13.2	19.8#



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





#36

1,1-Dichloropropene

Concen: 149.44 ug/l

RT: 4.42 min Scan# 395

Delta R.T. -0.03 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

Instrument :

MSVOA_F

ClientSampleId :

SB-2(3-5)

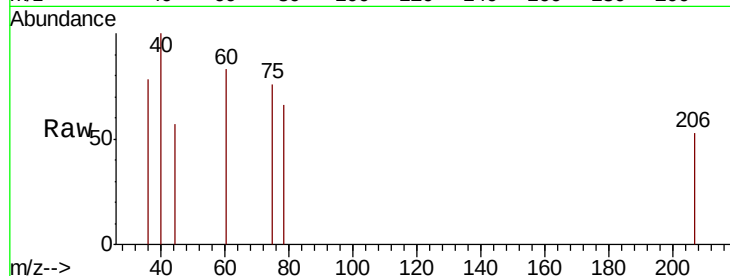
Tot Ion: 75 Resp: 86

Ion Ratio Lower Upper

75 100

110 0.0 14.0 41.9#

77 0.0 24.2 36.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

4.42

150

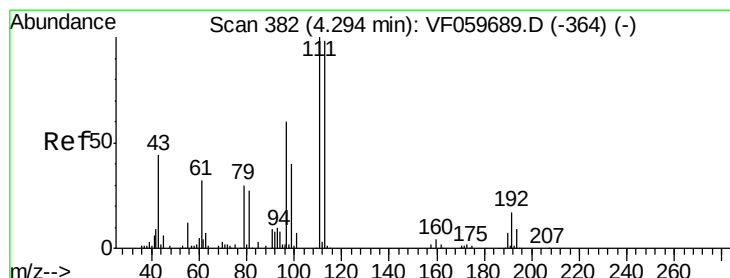
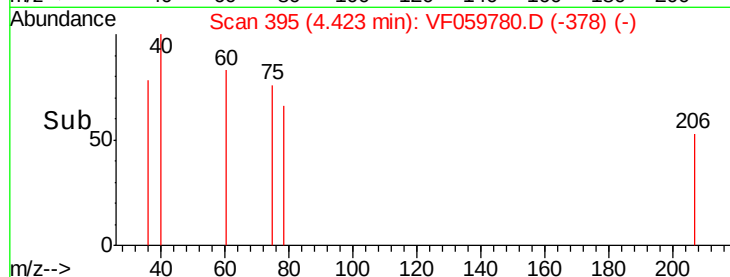
100

50

0

4.40 4.42 4.44

Time-->



#37

Ethyl Acetate

Concen: 466.07 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

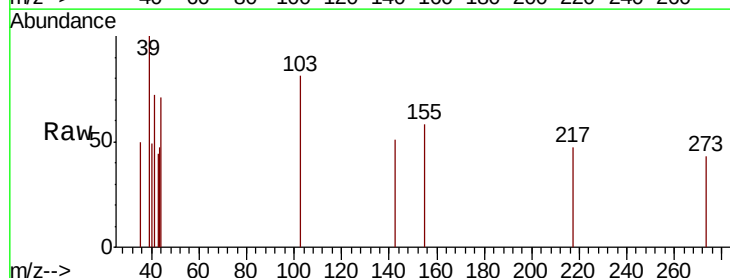
Tgt Ion: 43 Resp: 128

Ion Ratio Lower Upper

43 100

61 0.0 58.2 87.2#

70 0.0 6.0 9.0#



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

4.31

300

250

200

150

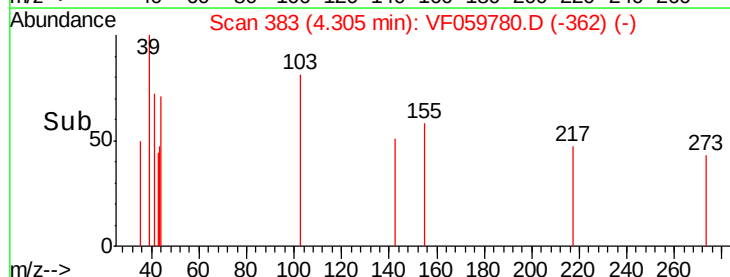
100

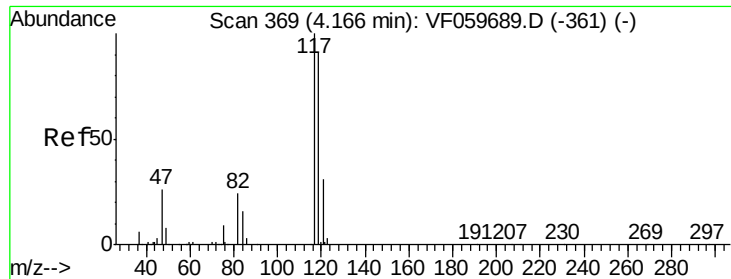
50

0

4.28 4.30 4.32

Time-->





#38

Carbon Tetrachloride

Concen: 68.14 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.03 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

Instrument :

MSVOA_F

ClientSampleId :

SB-2(3-5)

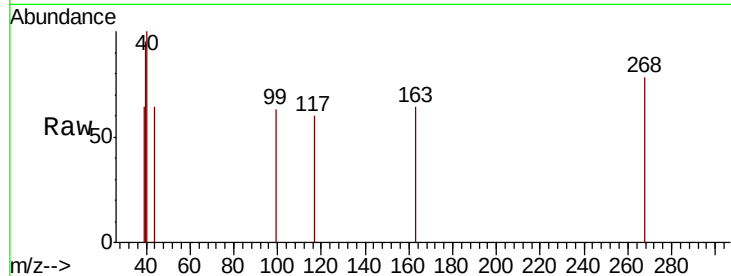
Tot Ion:117 Resp: 65

Ion Ratio Lower Upper

117 100

119 0.0 72.9 109.3#

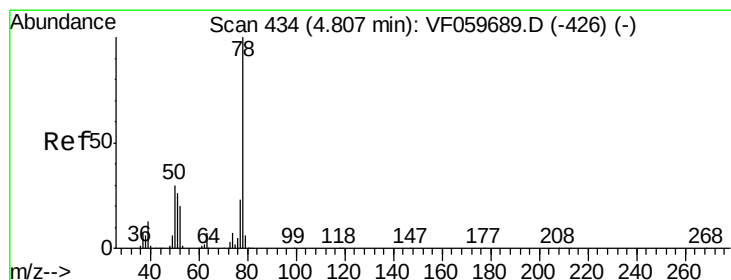
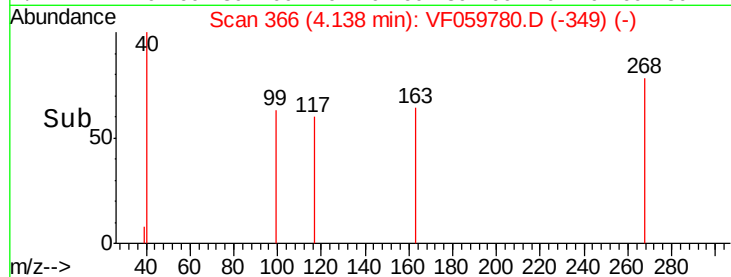
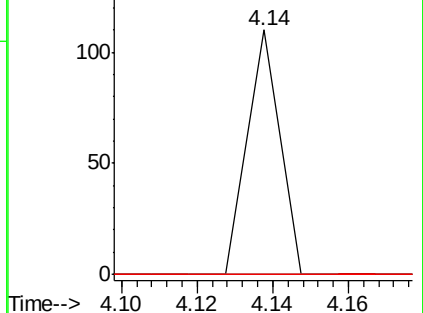
121 0.0 25.0 37.4#



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



#40

Benzene

Concen: 80.05 ug/l

RT: 4.90 min Scan# 443

Delta R.T. 0.09 min

Lab File: VF059780.D

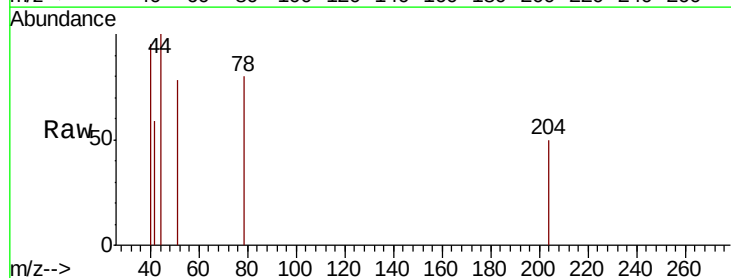
Acq: 2 Aug 2018 4:24

Tgt Ion: 78 Resp: 97

Ion Ratio Lower Upper

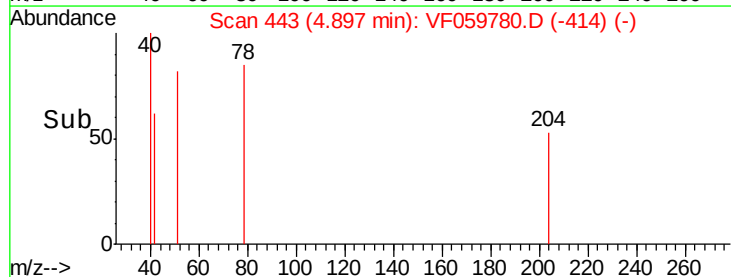
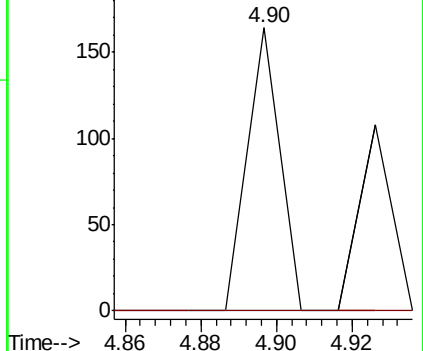
78 100

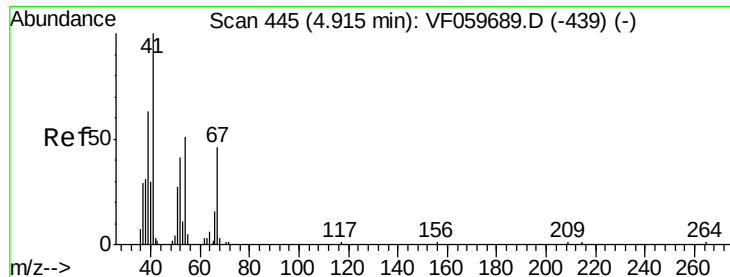
77 0.0 18.9 28.3#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

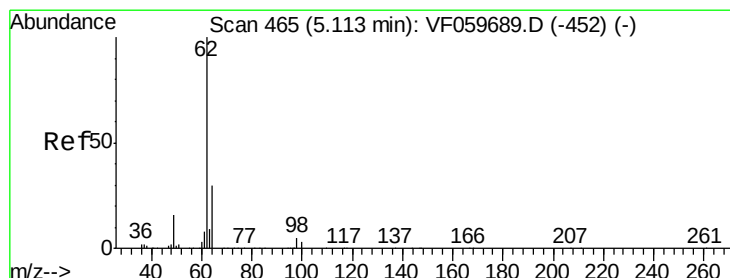
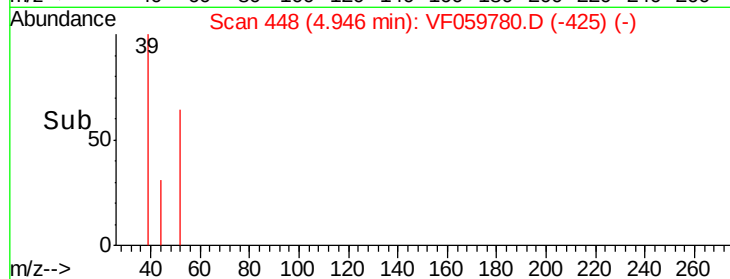
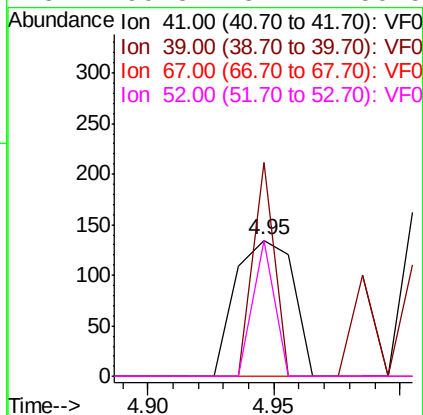
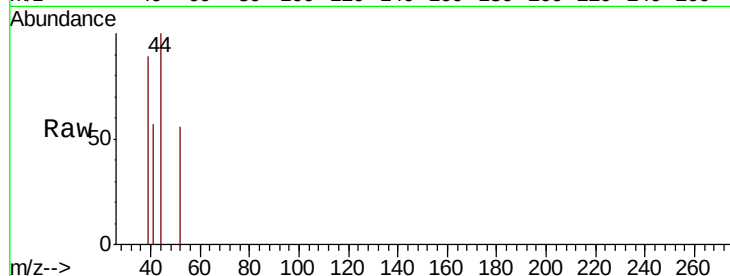




#41
Methacrylonitrile
Concen: 1512.19 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.03 min
Lab File: VF059780.D
Acq: 2 Aug 2018 4:24

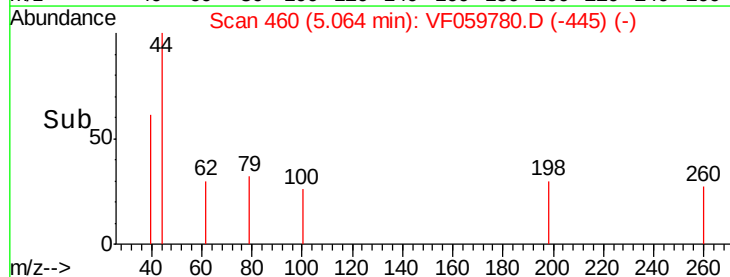
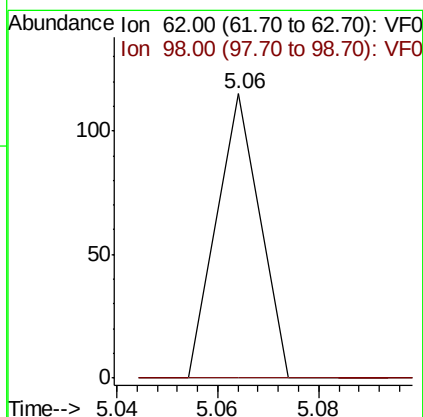
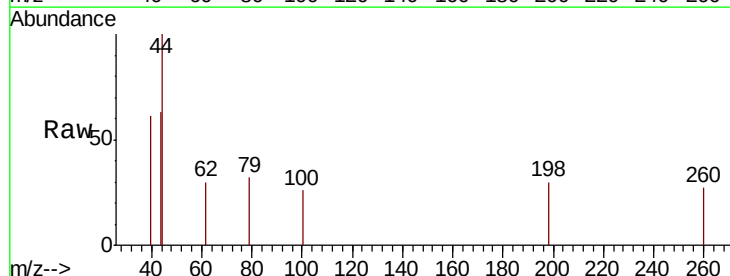
Instrument :
MSVOA_F
ClientSampleId :
SB-2(3-5)

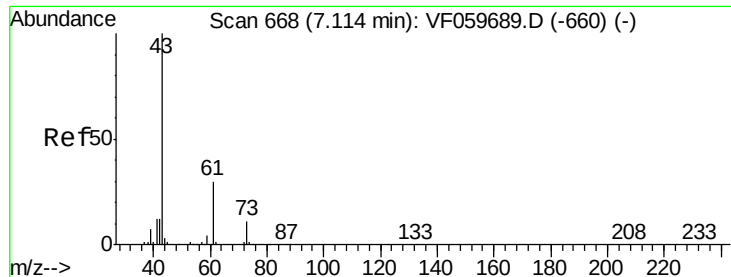
Tot Ion: 41 Resp: 216
Ion Ratio Lower Upper
41 100
39 156.3 55.2 82.8#
67 0.0 36.2 54.2#
52 99.3 37.7 56.5#



#42
1,2-Dichloroethane
Concen: 80.19 ug/l
RT: 5.06 min Scan# 460
Delta R.T. -0.05 min
Lab File: VF059780.D
Acq: 2 Aug 2018 4:24

Tgt Ion: 62 Resp: 68
Ion Ratio Lower Upper
62 100
98 0.0 0.0 9.6





#43

Isopropyl Acetate

Concen: 284.30 ug/l

RT: 6.97 min Scan# 653

Delta R.T. -0.15 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

Instrument :

MSVOA_F

ClientSampleId :

SB-2(3-5)

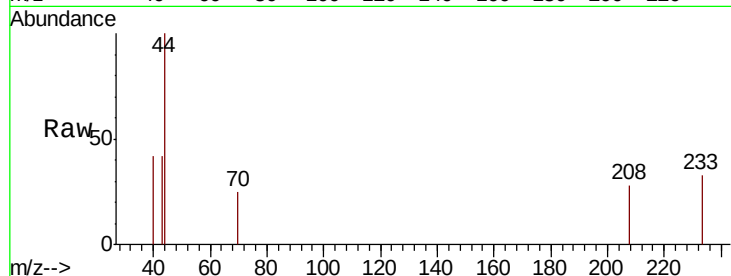
Tot Ion: 43 Resp: 102

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.8#

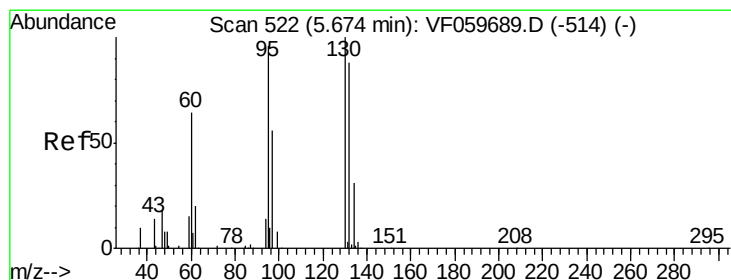
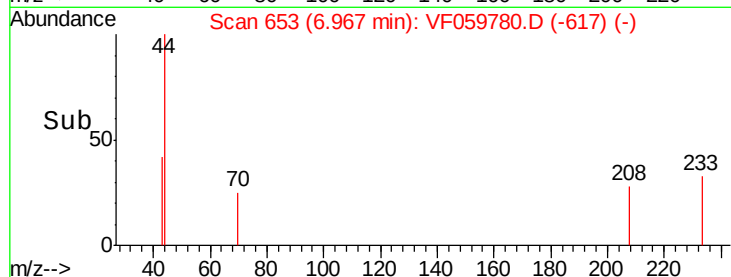
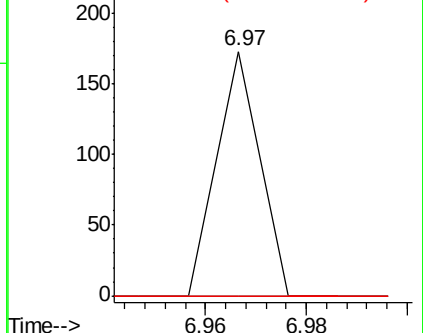
87 0.0 0.6 1.0#



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



#44

Trichloroethene

Concen: 175.62 ug/l

RT: 5.69 min Scan# 523

Delta R.T. 0.01 min

Lab File: VF059780.D

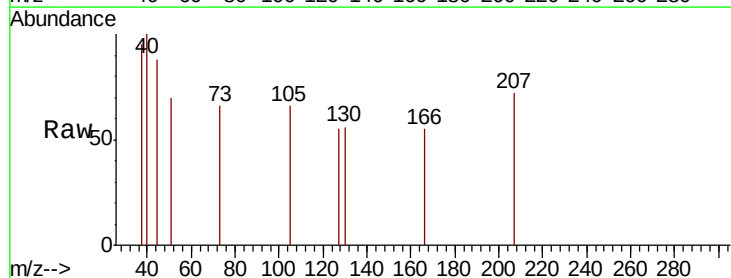
Acq: 2 Aug 2018 4:24

Tgt Ion:130 Resp: 66

Ion Ratio Lower Upper

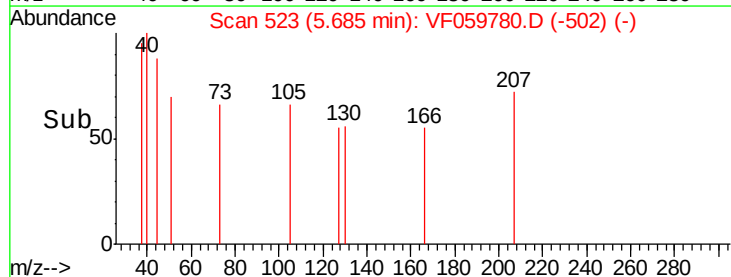
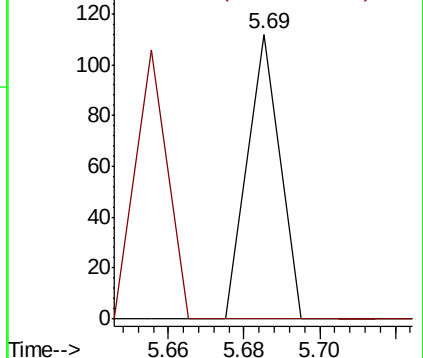
130 100

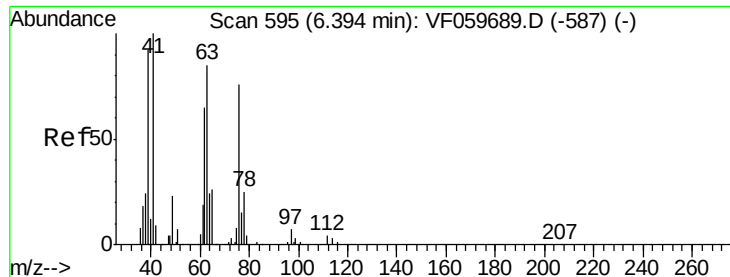
95 0.0 0.0 191.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

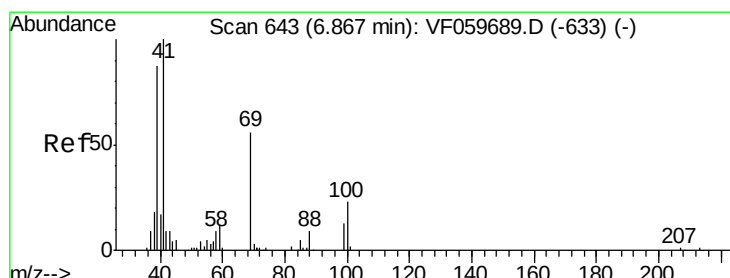
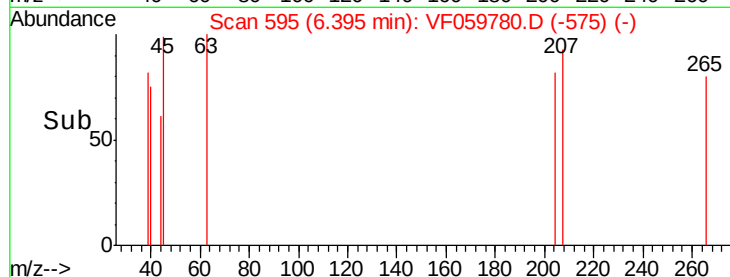
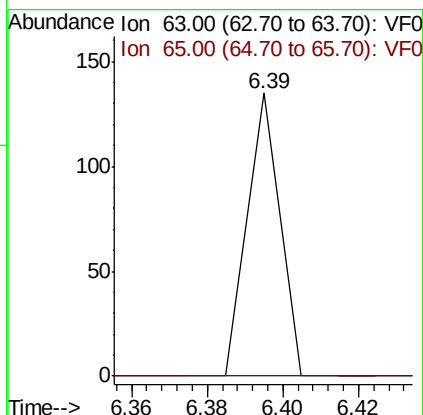
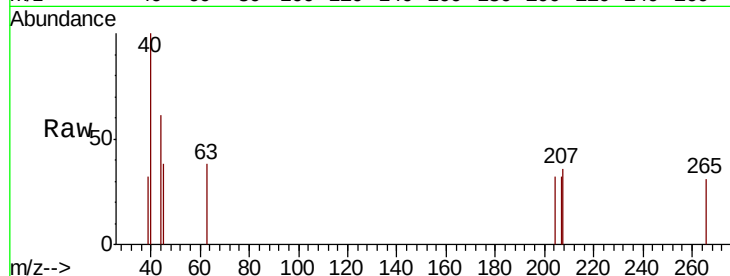




#45
 1,2-Dichloropropane
 Concen: 250.01 ug/l
 RT: 6.39 min Scan# 595
 Delta R.T. 0.00 min
 Lab File: VF059780.D
 Acq: 2 Aug 2018 4:24

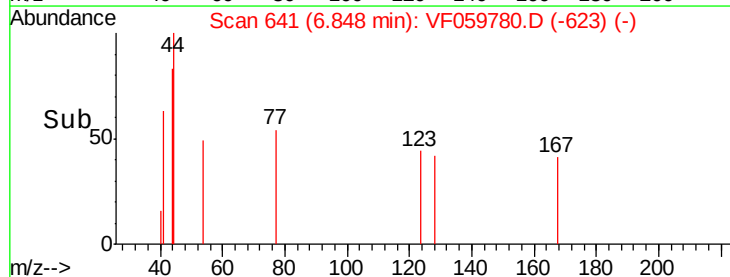
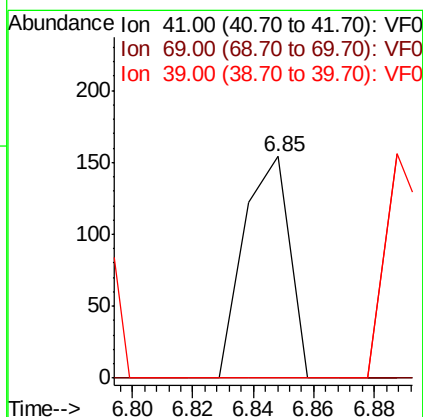
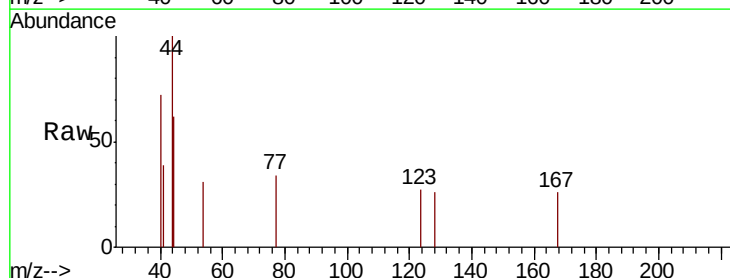
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(3-5)

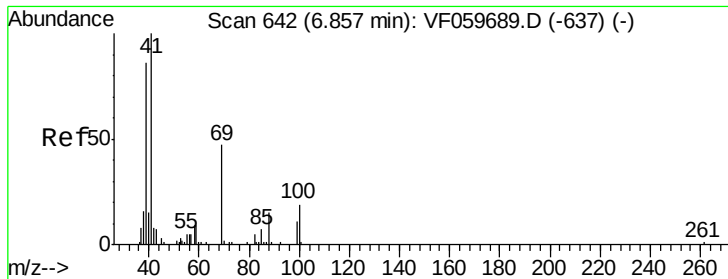
Tot Ion: 63 Resp: 80
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#48
 Methyl methacrylate
 Concen: 604.02 ug/l
 RT: 6.85 min Scan# 641
 Delta R.T. -0.02 min
 Lab File: VF059780.D
 Acq: 2 Aug 2018 4:24

Tgt Ion: 41 Resp: 163
 Ion Ratio Lower Upper
 41 100
 69 0.0 44.4 66.6#
 39 0.0 69.4 104.2#





#49

1,4-Dioxane

Concen: 13317.81 ug/l

RT: 6.98 min Scan# 654

Delta R.T. 0.12 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

Instrument :

MSVOA_F

ClientSampleId :

SB-2(3-5)

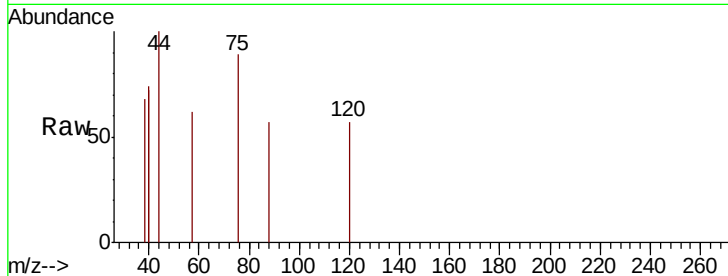
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 45.2 67.8#

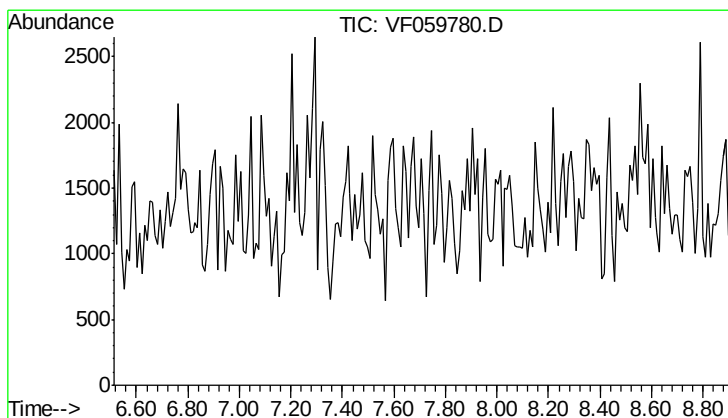
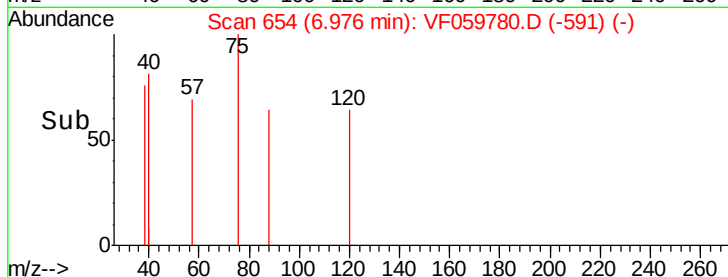
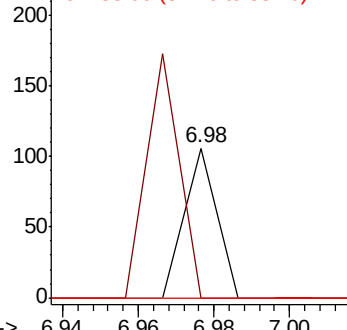
58 0.0 49.0 73.6#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 0.00 ug/l

Expected RT: 7.71 min

Lab File: VF059780.D

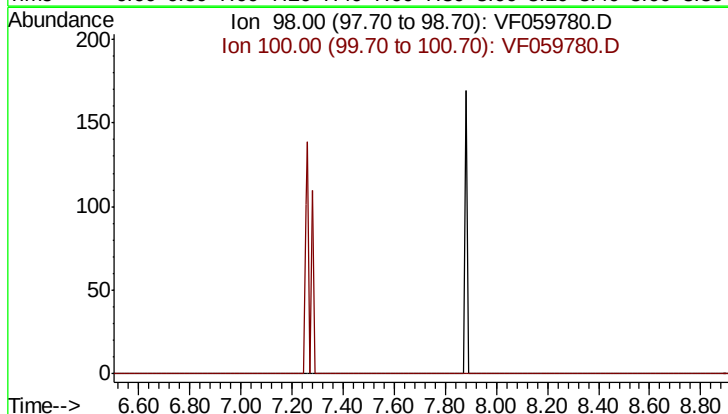
Acq: 2 Aug 2018 4:24

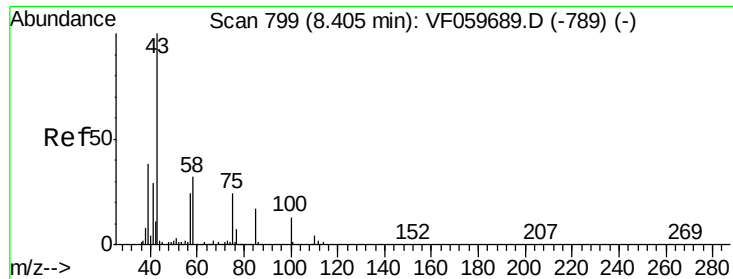
Tgt Ion: 98

Sig Exp Ratio

98 100

100 66.0





#51

4-Methyl-2-Pentanone

Concen: 282.14 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.03 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

Instrument :

MSVOA_F

ClientSampled :

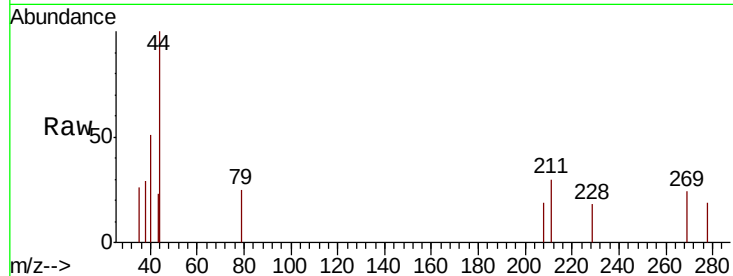
SB-2(3-5)

Tot Ion: 43 Resp: 77

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.44

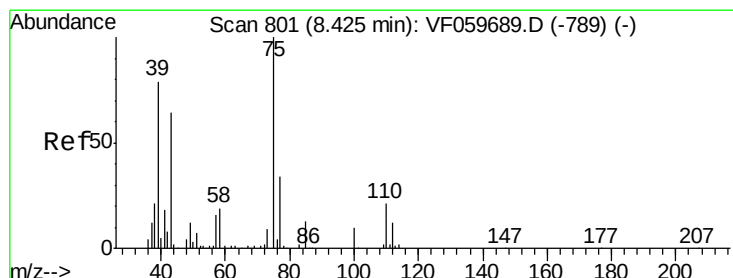
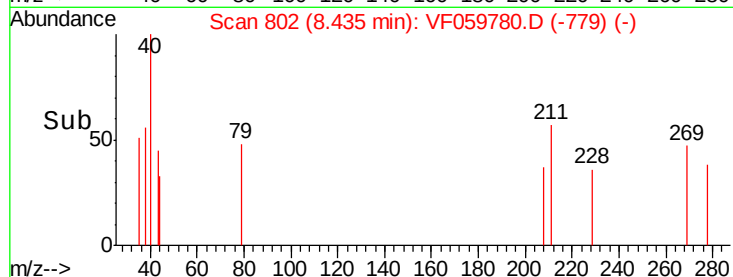
100

50

0

8.40 8.42 8.44 8.46

Time-->



#53

t-1,3-Dichloropropene

Concen: 90.55 ug/l

RT: 8.45 min Scan# 804

Delta R.T. 0.03 min

Lab File: VF059780.D

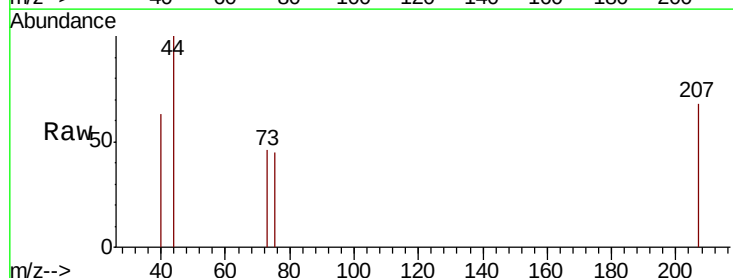
Acq: 2 Aug 2018 4:24

Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

77 0.0 27.0 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

150

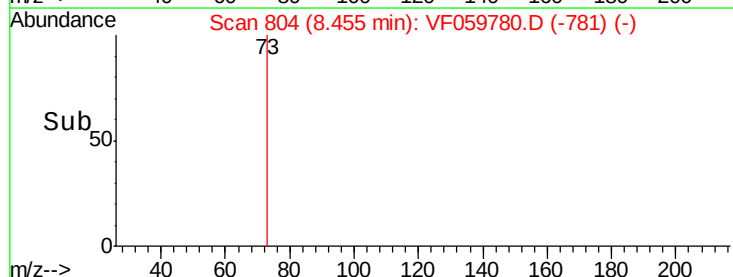
100

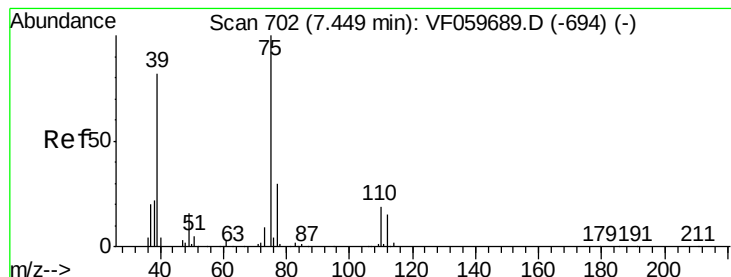
50

0

8.42 8.44 8.46 8.48

Time-->





#54

cis-1,3-Dichloropropene

Concen: 201.35 ug/l

RT: 7.55 min Scan# 712

Delta R.T. 0.10 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

Instrument :

MSVOA_F

ClientSampled :

SB-2(3-5)

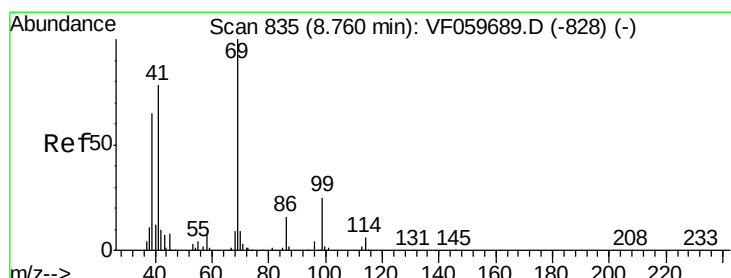
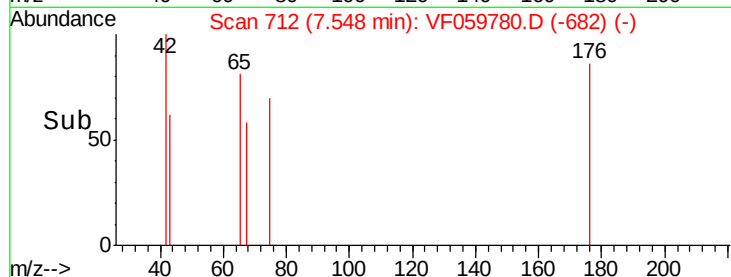
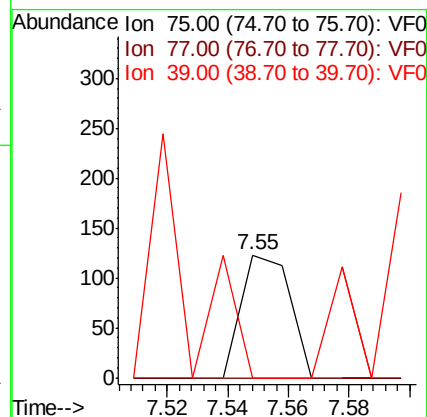
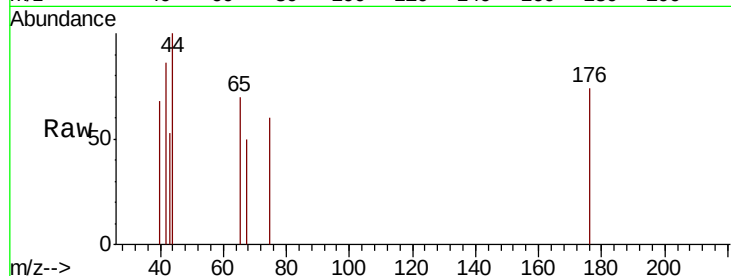
Tot Ion: 75 Resp: 140

Ion Ratio Lower Upper

75 100

77 0.0 24.0 36.0#

39 0.0 65.4 98.2#



#56

Ethyl methacrylate

Concen: 306.81 ug/l

RT: 8.74 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

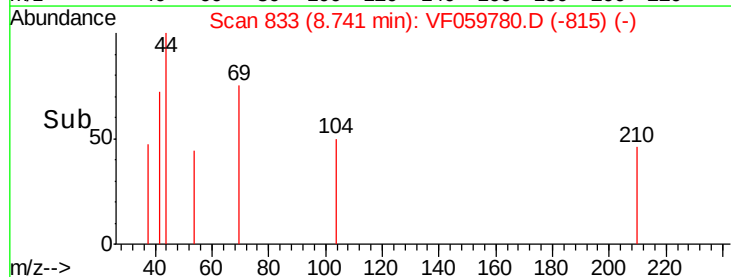
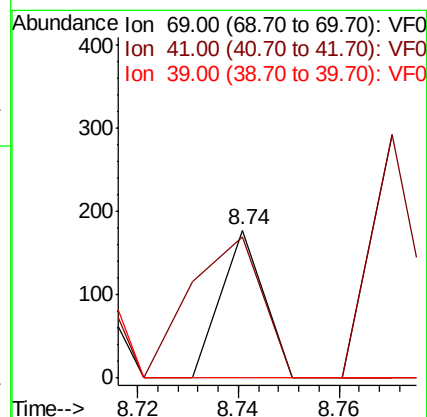
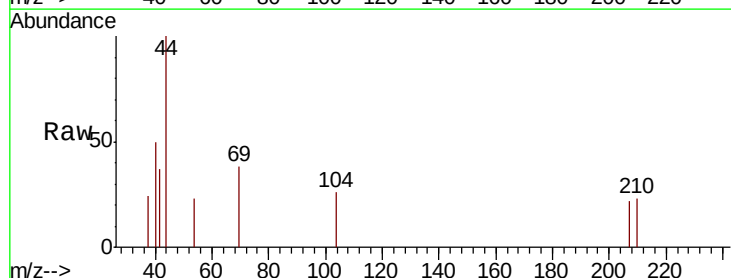
Tgt Ion: 69 Resp: 105

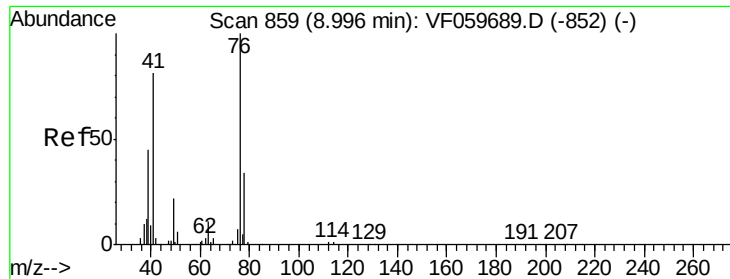
Ion Ratio Lower Upper

69 100

41 95.5 62.3 93.5#

39 0.0 52.4 78.6#





#57

1,3-Dichloropropane

Concen: 282.43 ug/l

RT: 8.88 min Scan# 847

Delta R.T. -0.12 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

Instrument :

MSVOA_F

ClientSampleId :

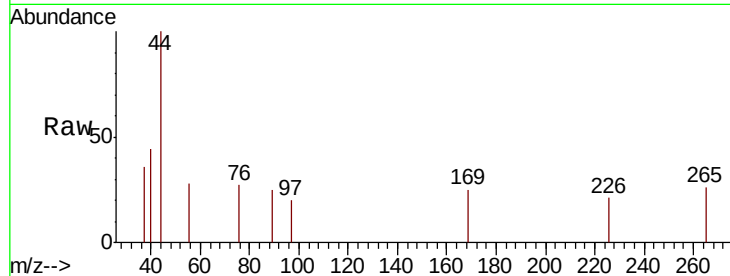
SB-2(3-5)

Tot Ion: 76 Resp: 159

Ion Ratio Lower Upper

76 100

78 0.0 27.2 40.8#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

8.88

150

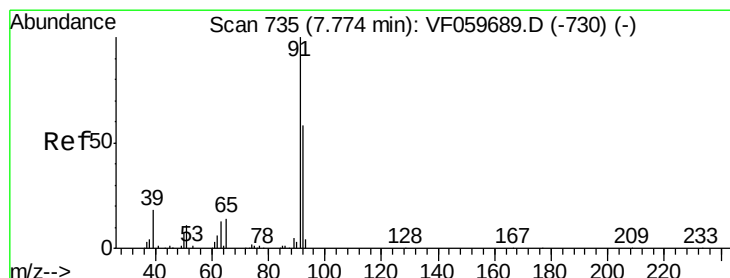
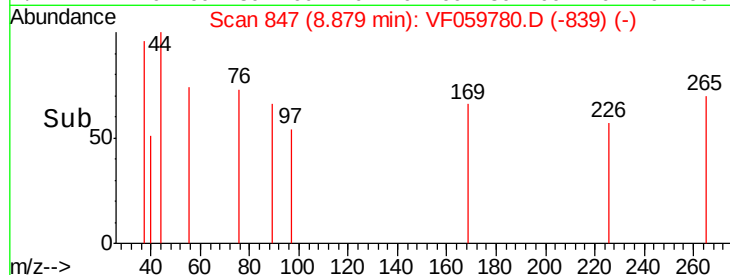
100

50

0

8.84 8.86 8.88 8.90 8.92

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1619.69 ug/l

RT: 7.79 min Scan# 737

Delta R.T. 0.02 min

Lab File: VF059780.D

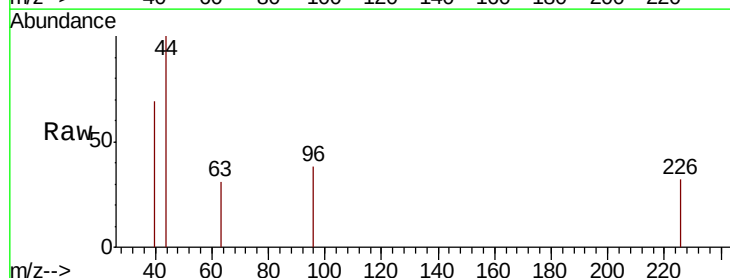
Acq: 2 Aug 2018 4:24

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

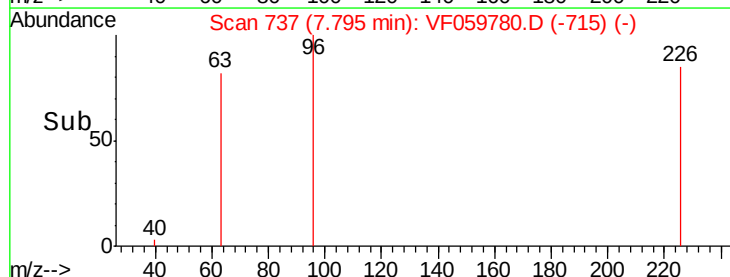
100

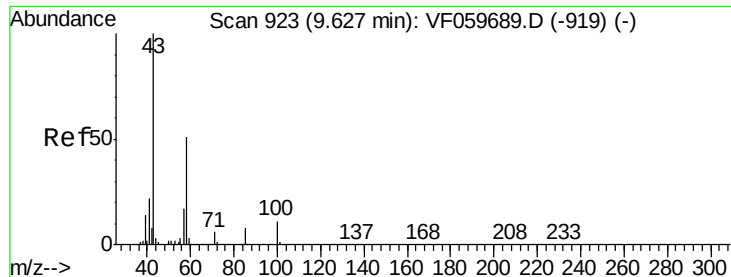
50

0

7.76 7.78 7.80 7.82

Time-->

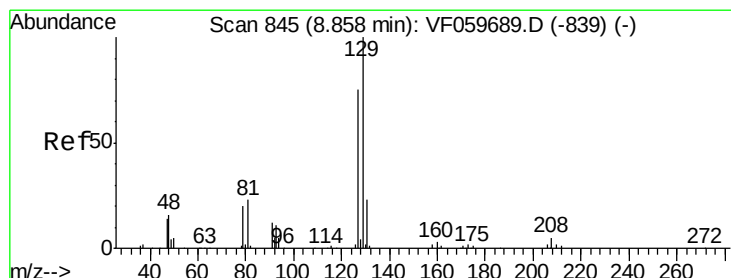
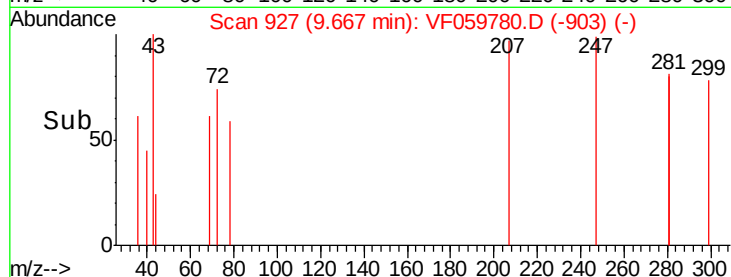
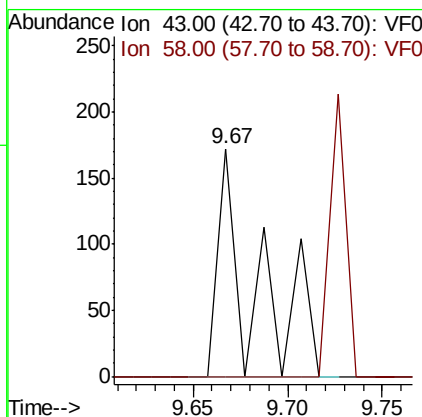
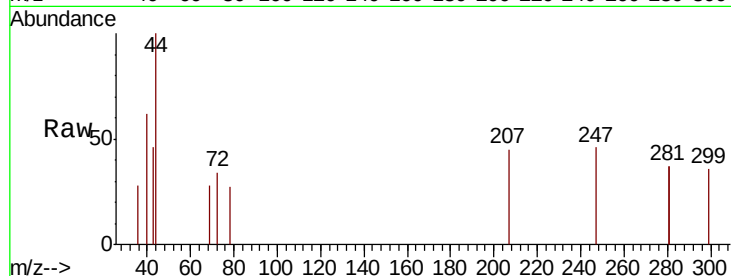




#59
2-Hexanone
Concen: 1051.65 ug/l
RT: 9.67 min Scan# 927
Delta R.T. 0.04 min
Lab File: VF059780.D
Acq: 2 Aug 2018 4:24

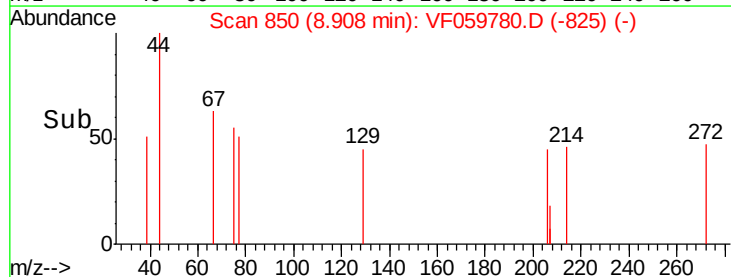
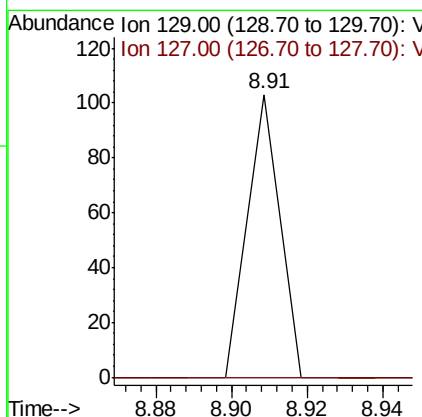
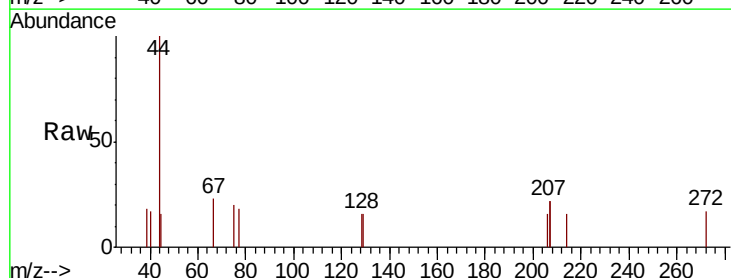
Instrument :
MSVOA_F
ClientSampleId :
SB-2(3-5)

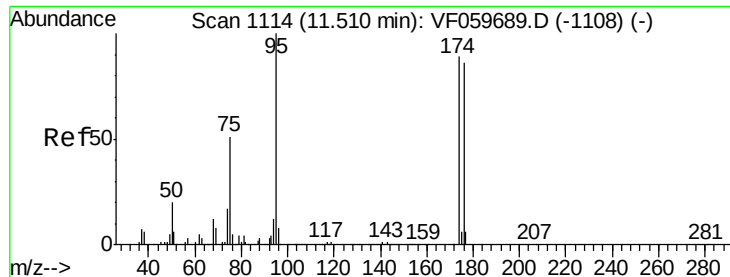
Tot Ion: 43 Resp: 230
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.8#



#60
Dibromochloromethane
Concen: 105.34 ug/l
RT: 8.91 min Scan# 850
Delta R.T. 0.05 min
Lab File: VF059780.D
Acq: 2 Aug 2018 4:24

Tgt Ion: 129 Resp: 61
Ion Ratio Lower Upper
129 100
127 0.0 37.7 113.1#





#62

4-Bromofluorobenzene

Concen: 99.44 ug/l

RT: 11.56 min Scan# 1119

Delta R.T. 0.05 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

Instrument :

MSVOA_F

ClientSampleId :

SB-2(3-5)

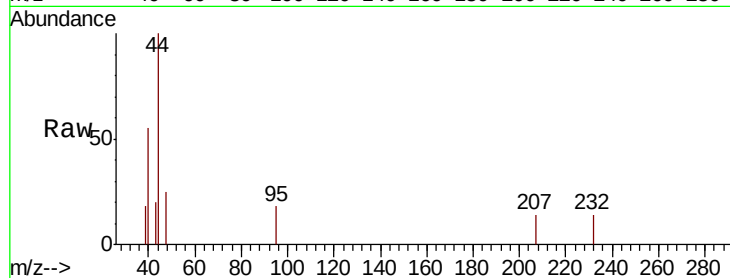
Tot Ion: 95 Resp: 80

Ion Ratio Lower Upper

95 100

174 0.0 0.0 178.4

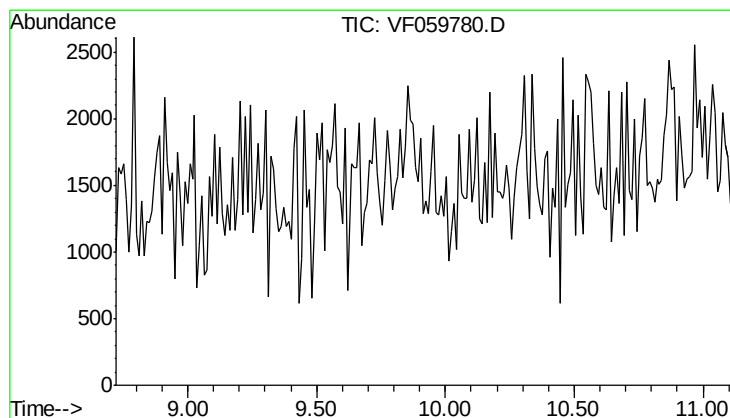
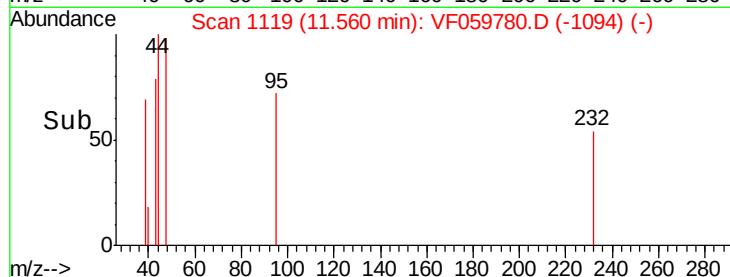
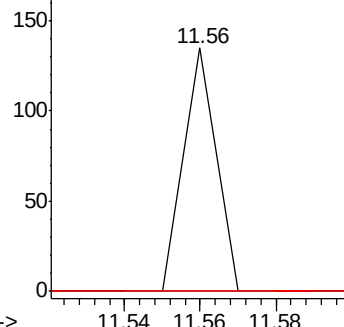
176 0.0 0.0 173.0



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



#63

Chlorobenzene-d5

Concen: 0.00 ug/l

Expected RT: 9.91 min

Lab File: VF059780.D

Acq: 2 Aug 2018 4:24

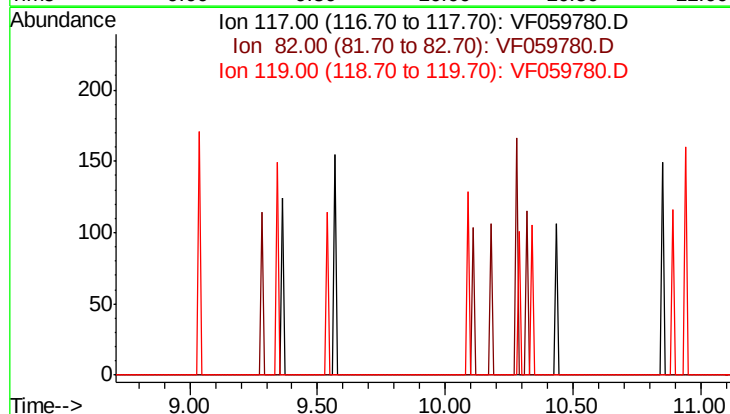
Tgt Ion: 117

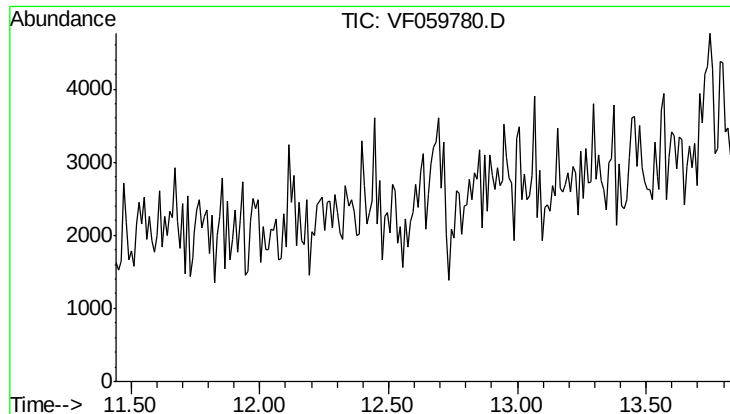
Sig Exp Ratio

117 100

82 61.2

119 34.1





#72
1,4-Dichlorobenzene-d4
Concen: 0.00 ug/l
Expected RT: 12.63 min
Lab File: VF059780.D
Acq: 2 Aug 2018 4:24

Instrument :
MSVOA_F
ClientSampleId :
SB-2(3-5)

Tot Ion	152
Sig	Exp Ratio
152	100
115	56.4
150	158.1

