

Data File : VW006865.D
Acq On : 13 Nov 2018 19:52
Operator : SY/AP
Sample : J5895-01RE
Misc : 10.23G/5ML/MSVOA_W/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SB-1

Quant Time: Nov 14 04:07:10 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W111218S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 12 14:58:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	225369	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	300338	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	277175	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	139841	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	64532	39.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.34%	
35) Dibromofluoromethane	7.89	113	69471	38.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.68%	
50) Toluene-d8	10.33	98	292451	39.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.90%	
62) 4-Bromofluorobenzene	12.62	95	103371	37.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.72%	

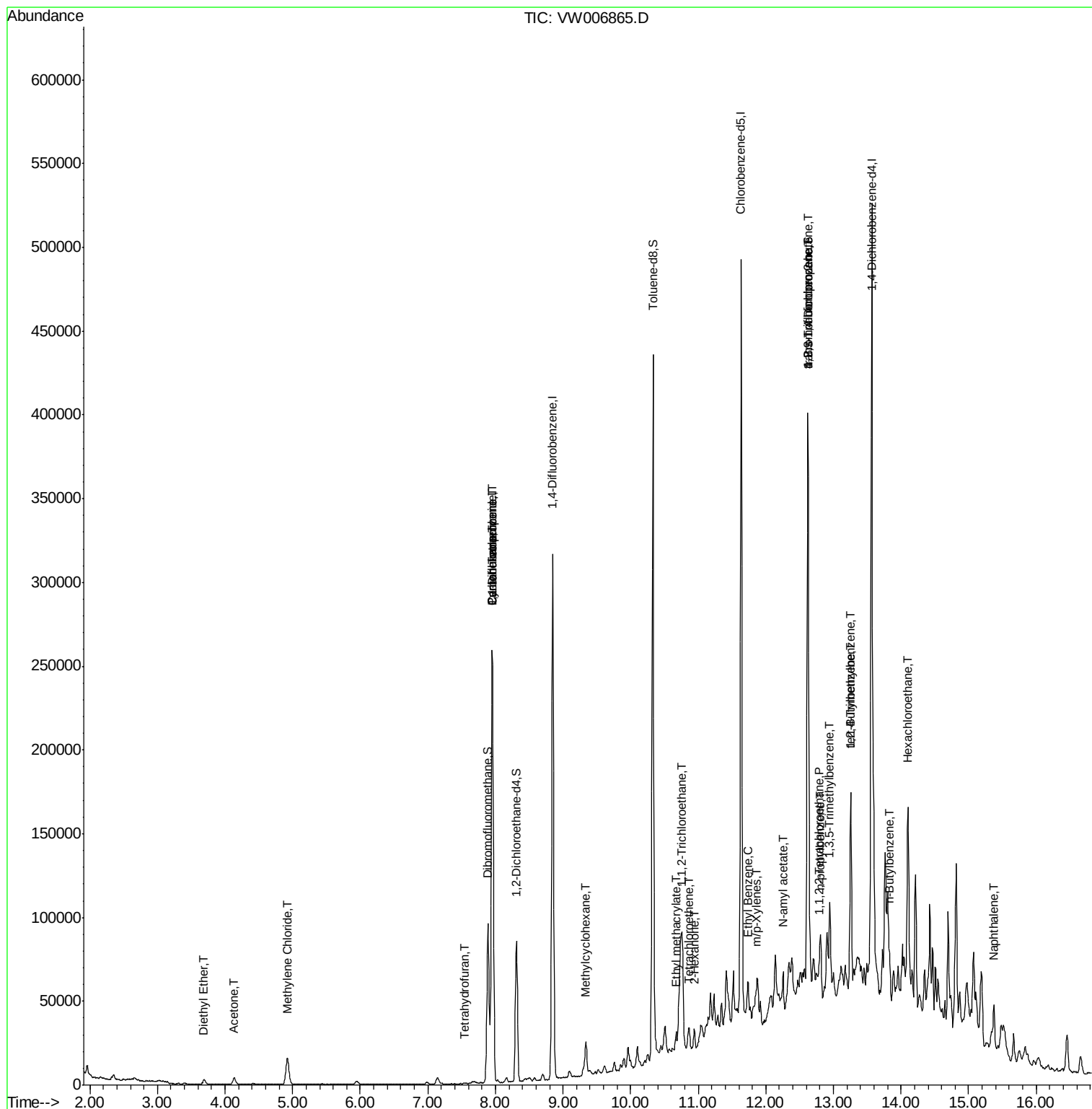
Target Compounds						Qvalue
8) Diethyl Ether	3.69	74	1810	2.075	ug/l	92
16) Acetone	4.14	43	7231	30.561	ug/l #	87
20) Methylene Chloride	4.92	84	14039	1.472	ug/l	89
29) Tetrahydrofuran	7.54	42	381	1.488	ug/l #	37
31) Cyclohexane	7.95	56	4081	1.293	ug/l #	13
36) 1,1-Dichloropropene	7.95	75	12230	4.351	ug/l #	48
38) Carbon Tetrachloride	7.96	117	18186	5.953	ug/l #	15
39) Methylcyclohexane	9.34	83	8857	2.429	ug/l	90
55) 1,1,2-Trichloroethane	10.76	97	6880	4.573	ug/l #	19
56) Ethyl methacrylate	10.66	69	1970	1.195	ug/l #	53
59) 2-Hexanone	10.94	43	4161	6.731	ug/l #	28
64) Tetrachloroethene	10.87	164	3234	1.456	ug/l	87
67) Ethyl Benzene	11.73	91	13091	1.249	ug/l	100
68) m/p-Xylenes	11.85	106	6115	1.426	ug/l	93
74) N-amyl acetate	12.26	43	5701	3.884	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.79	83	1508	1.123	ug/l	71
76) 1,2,3-Trichloropropane	12.62	75	44821	44.475	ug/l #	100
78) n-propylbenzene	12.81	91	30464	2.659	ug/l	100
80) 1,3,5-Trimethylbenzene	12.95	105	18781	2.251	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	44821	110.012	ug/l #	13
83) tert-Butylbenzene	13.26	119	11819	1.602	ug/l #	79
84) 1,2,4-Trimethylbenzene	13.26	105	67602	7.961	ug/l	96
89) n-Butylbenzene	13.83	91	14552	1.675	ug/l #	71
90) Hexachloroethane	14.10	117	4603	3.026	ug/l #	3
95) Naphthalene	15.38	128	21288	4.340	ug/l	100

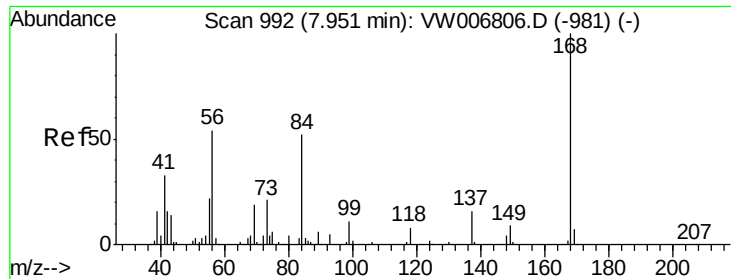
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampled :

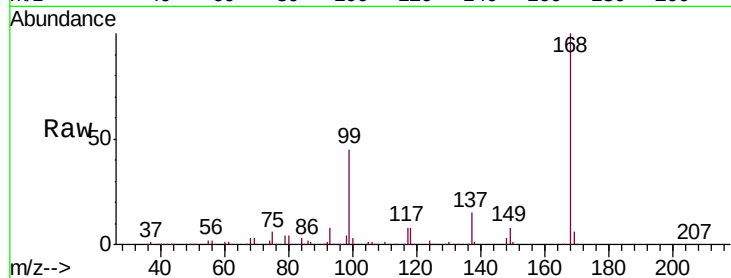
SB-1

Tgt Ion:168 Resp: 225369

Ion Ratio Lower Upper

168 100

99 45.4 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

120000

100000

80000

60000

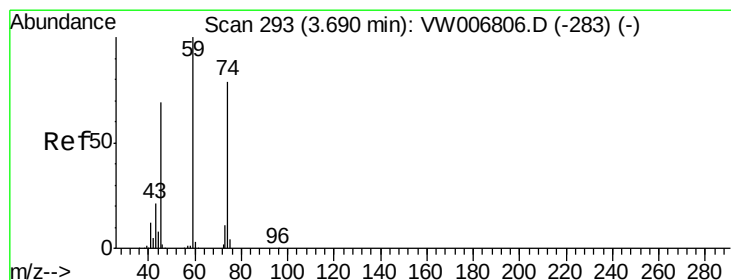
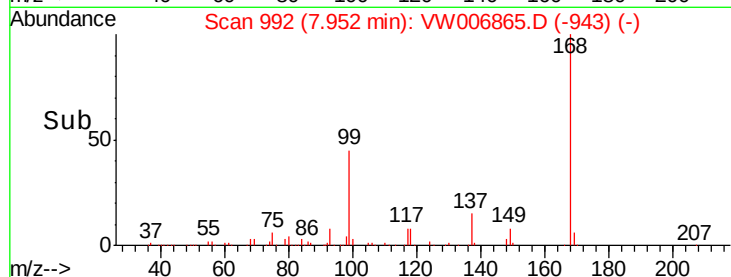
40000

20000

0

7.95

Time-->



#8

Diethyl Ether

Concen: 2.075 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.00 min

Lab File: VW006865.D

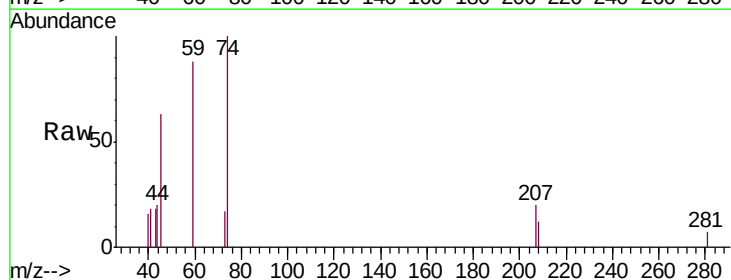
Acq: 13 Nov 2018 19:52

Tgt Ion: 74 Resp: 1810

Ion Ratio Lower Upper

74 100

45 78.8 43.1 129.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

800

600

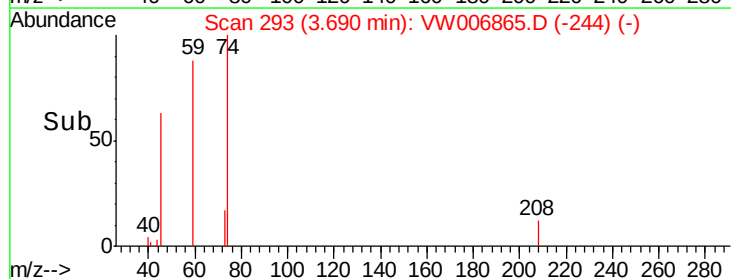
400

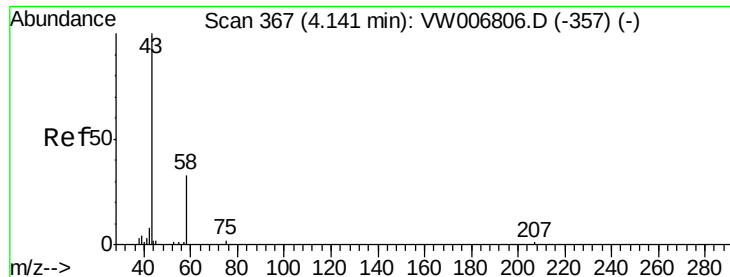
200

0

3.69

Time-->





#16

Acetone

Concen: 30.561 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampled :

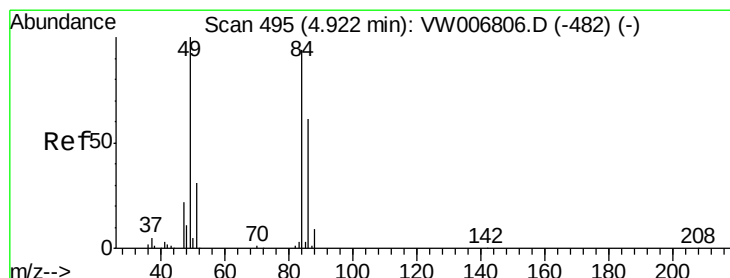
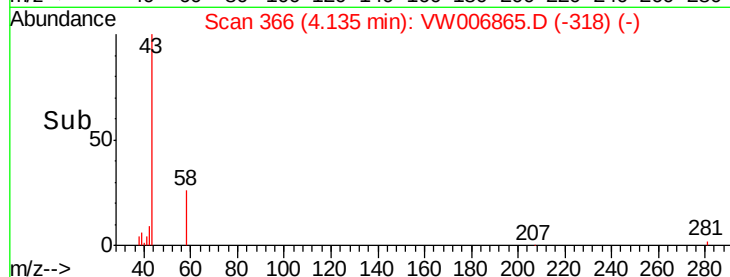
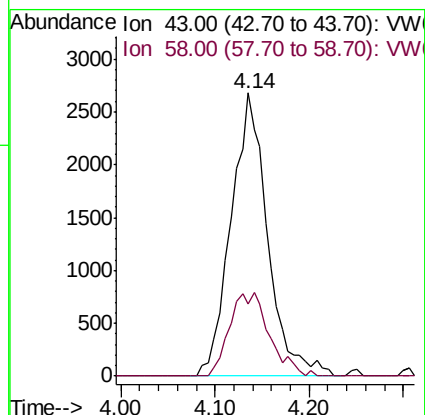
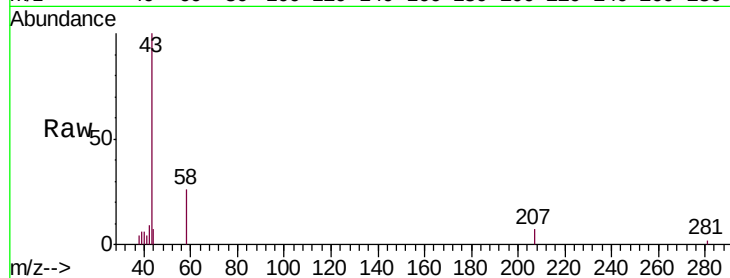
SB-1

Tgt Ion: 43 Resp: 7231

Ion Ratio Lower Upper

43 100

58 25.6 26.5 39.7#



#20

Methylene Chloride

Concen: 1.472 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Tgt Ion: 84 Resp: 14039

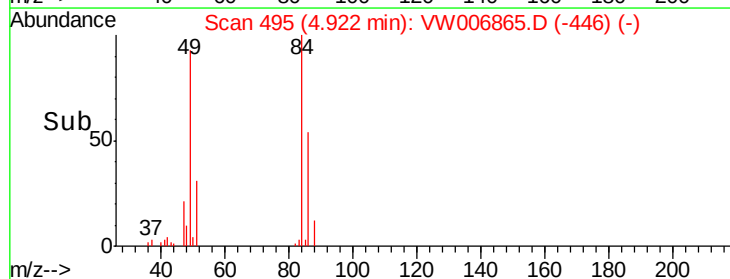
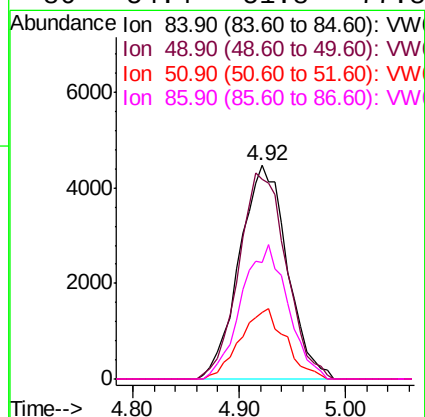
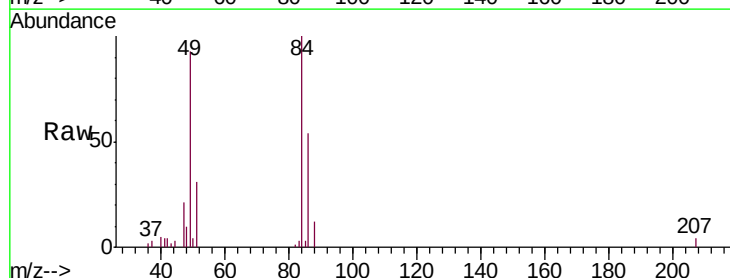
Ion Ratio Lower Upper

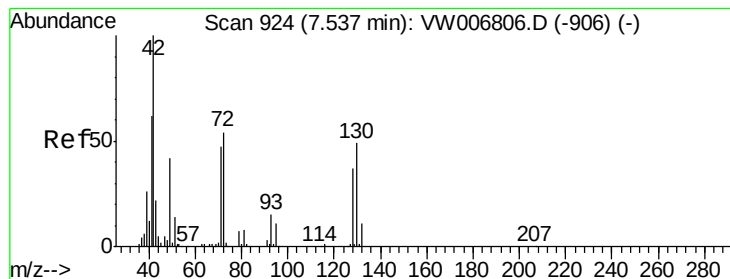
84 100

49 93.4 84.8 127.2

51 30.9 26.2 39.4

86 54.4 51.8 77.8





#29

Tetrahydrofuran

Concen: 1.488 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.00 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampled :

SB-1

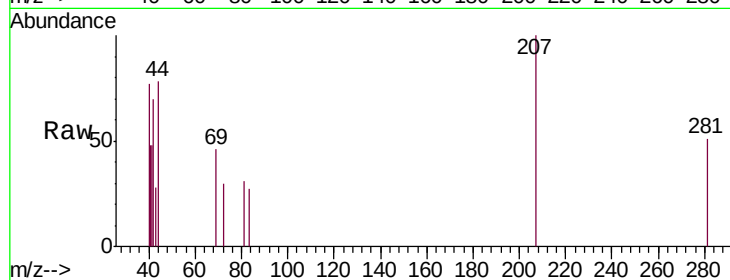
Tgt Ion: 42 Resp: 381

Ion Ratio Lower Upper

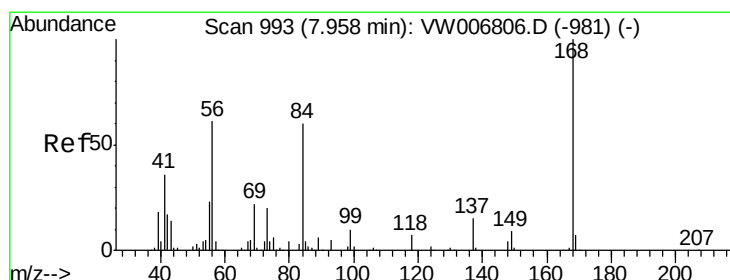
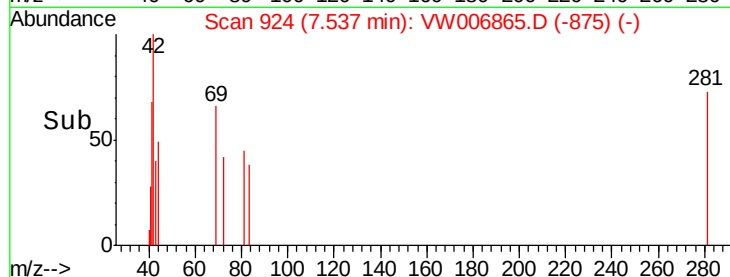
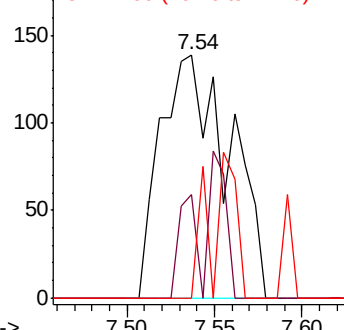
42 100

72 10.8 40.9 61.3#

71 0.0 36.9 55.3#



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.293 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

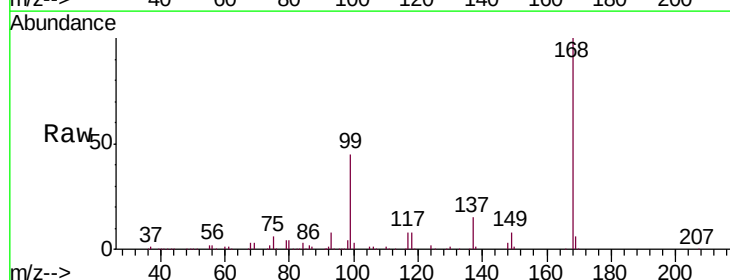
Tgt Ion: 56 Resp: 4081

Ion Ratio Lower Upper

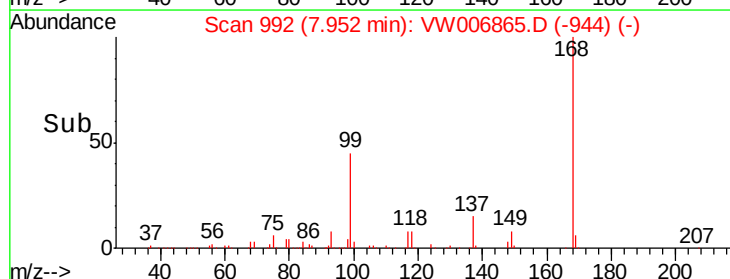
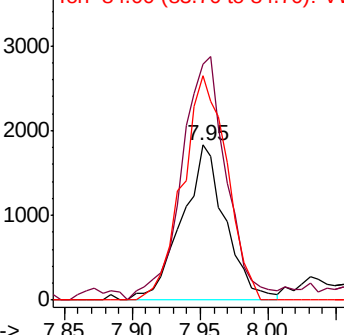
56 100

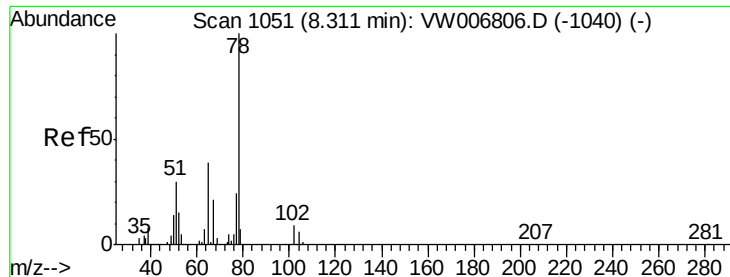
69 152.2 28.9 43.3#

84 145.1 79.0 118.4#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

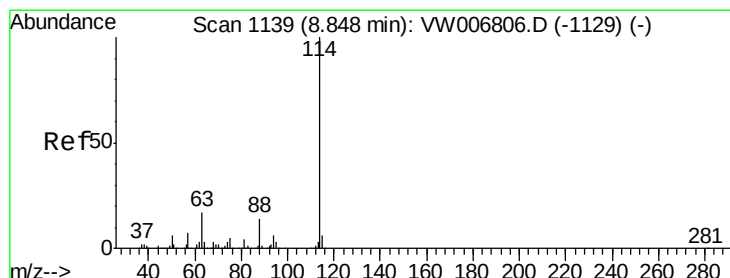
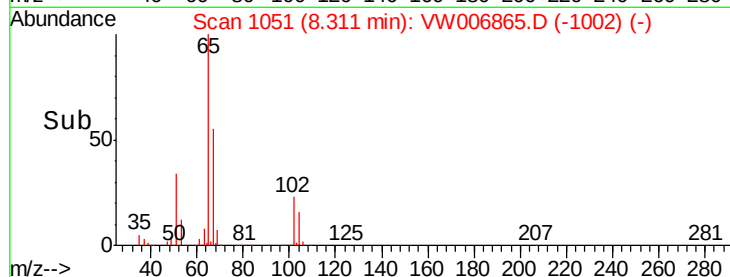
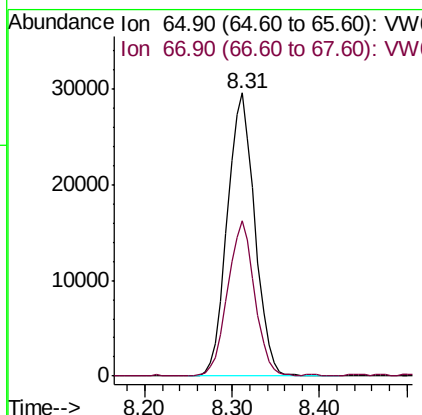
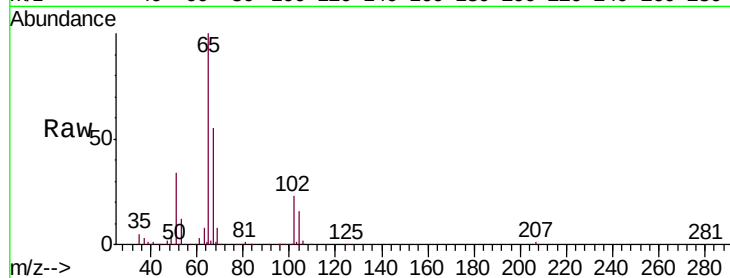




#33
 1,2-Dichloroethane-d4
 Concen: 39.169 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VW006865.D
 Acq: 13 Nov 2018 19:52

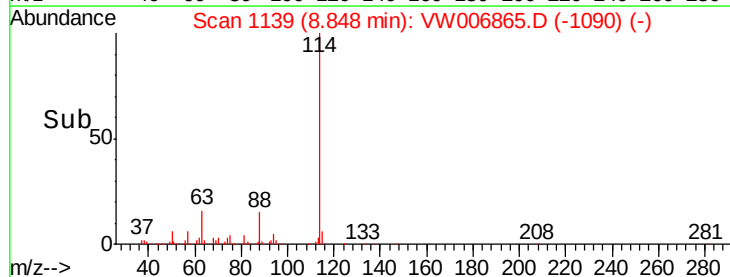
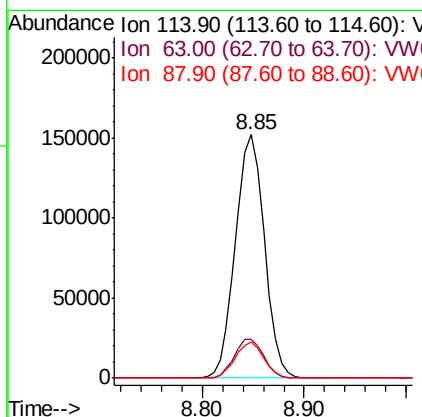
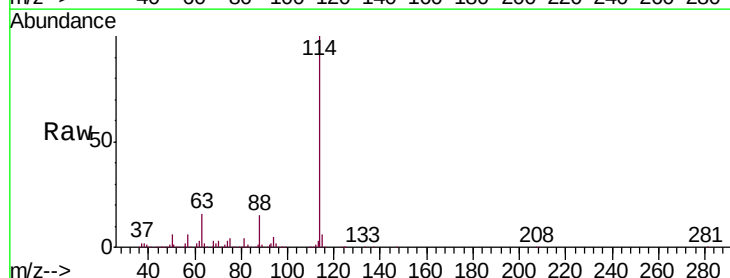
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-1

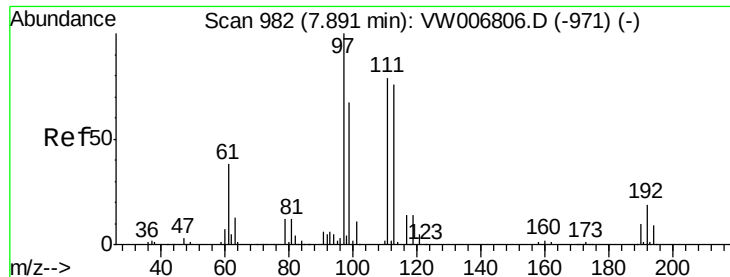
Tgt Ion: 65 Resp: 64532
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW006865.D
 Acq: 13 Nov 2018 19:52

Tgt Ion: 114 Resp: 300338
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 33.6
 88 14.9 0.0 28.4

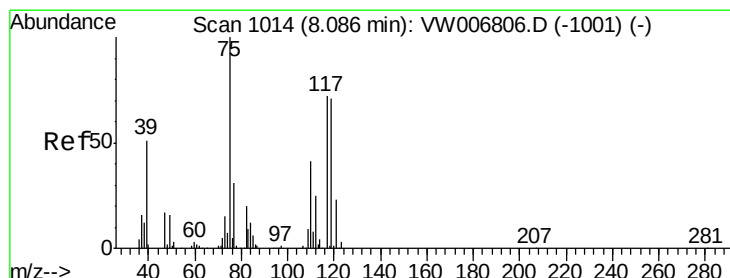
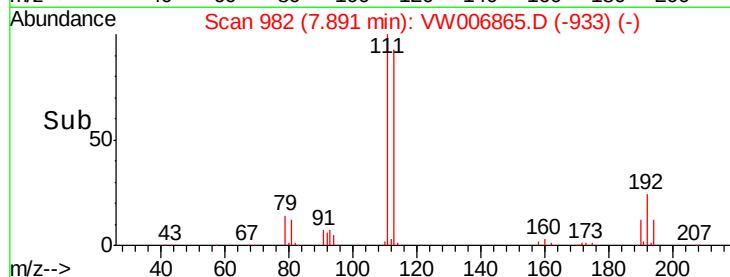
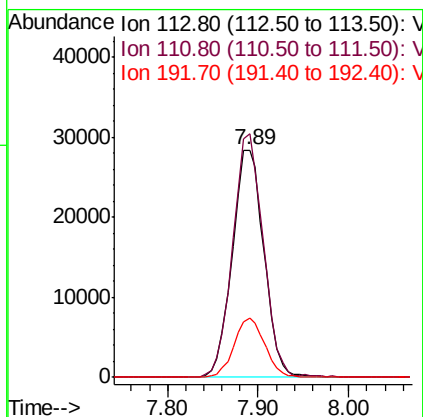
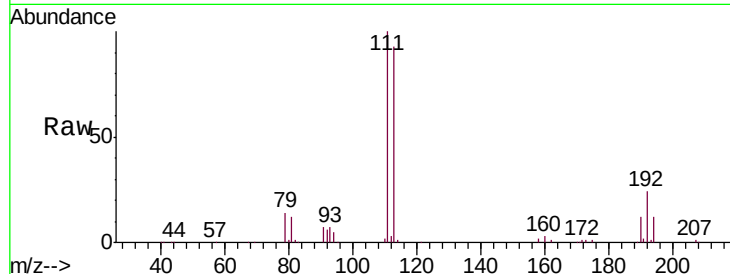




#35
 Dibromofluoromethane
 Concen: 38.845 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW006865.D
 Acq: 13 Nov 2018 19:52

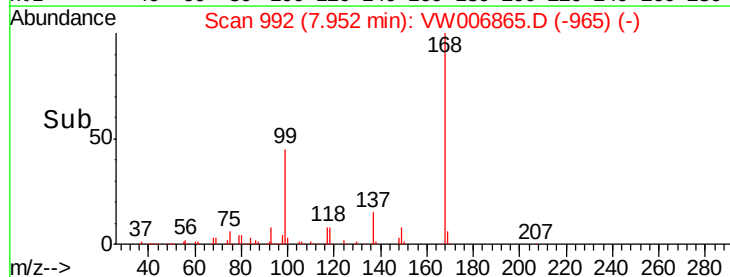
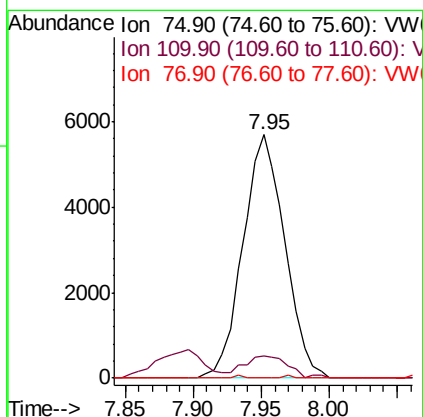
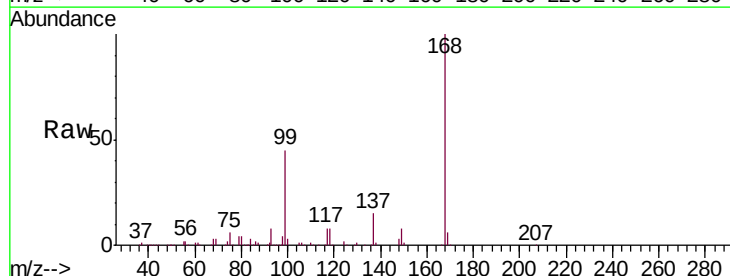
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-1

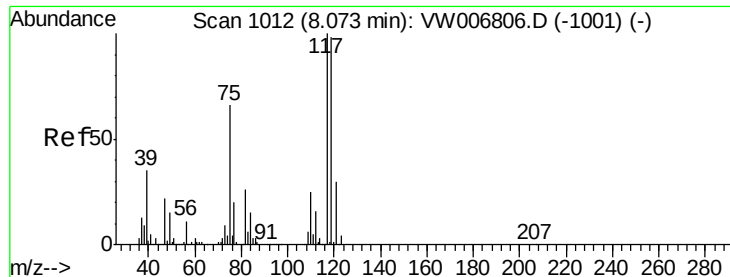
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.0	121.6
192	25.0	19.0	28.6



#36
 1,1-Dichloropropene
 Concen: 4.351 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW006865.D
 Acq: 13 Nov 2018 19:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	19.9	59.6#
77	0.2	25.4	38.2#





#38

Carbon Tetrachloride

Concen: 5.953 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampled :

SB-1

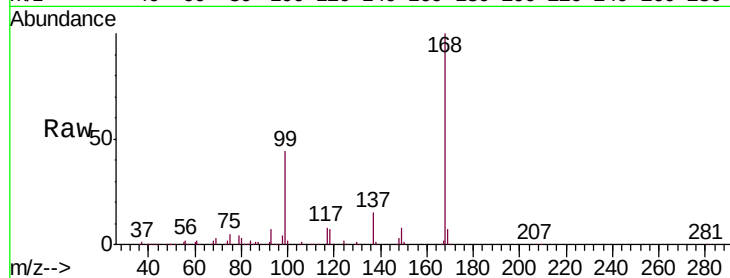
Tgt Ion:117 Resp: 18186

Ion Ratio Lower Upper

117 100

119 4.6 78.5 117.7#

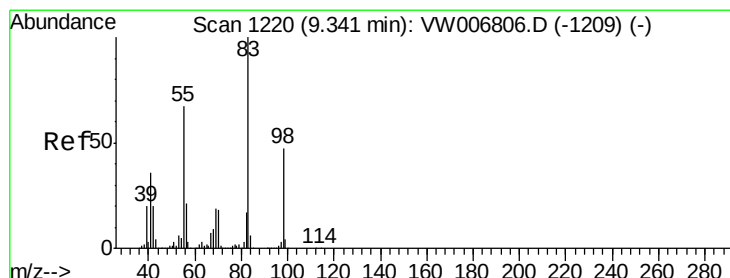
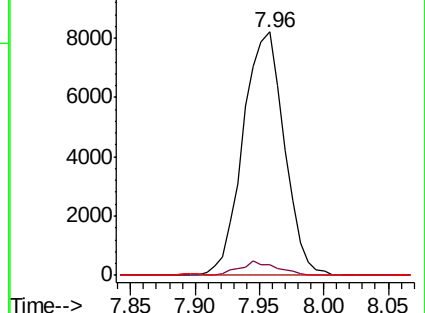
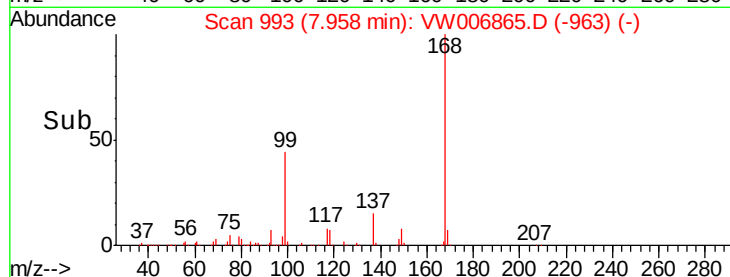
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 2.429 ug/l

RT: 9.34 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

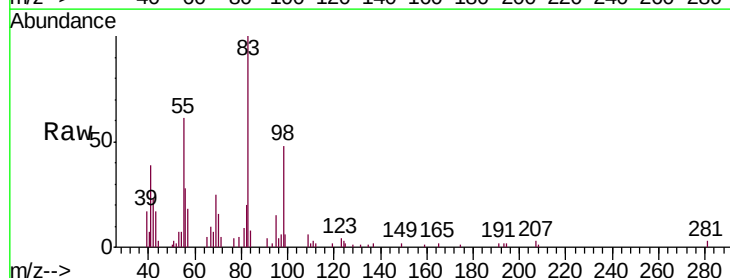
Tgt Ion: 83 Resp: 8857

Ion Ratio Lower Upper

83 100

55 55.2 53.3 79.9

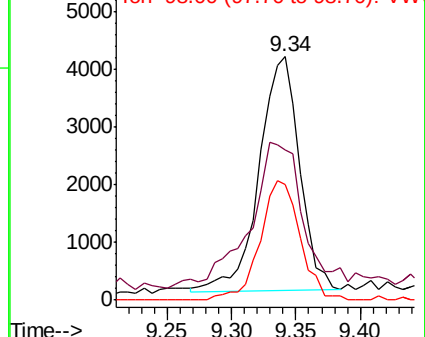
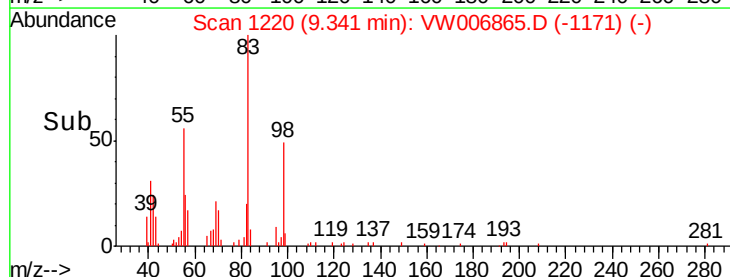
98 49.8 37.9 56.9

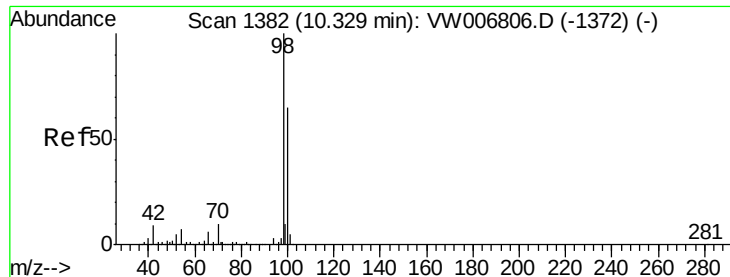


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#50

Toluene-d8

Concen: 39.452 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampleId :

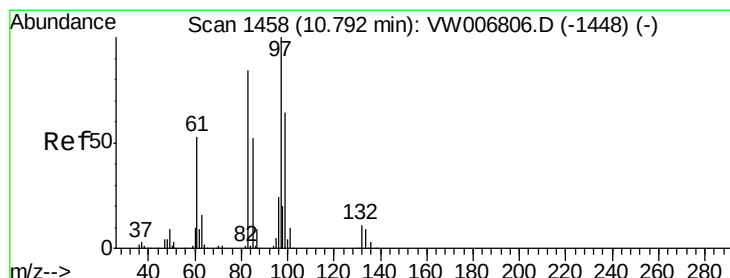
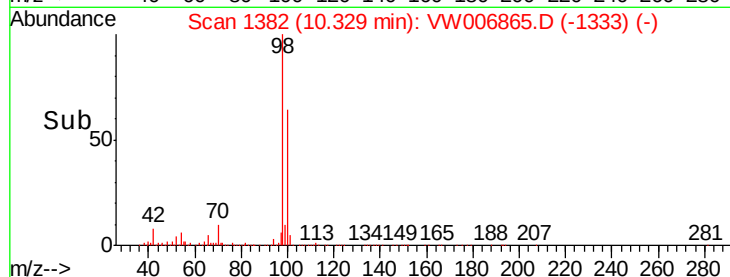
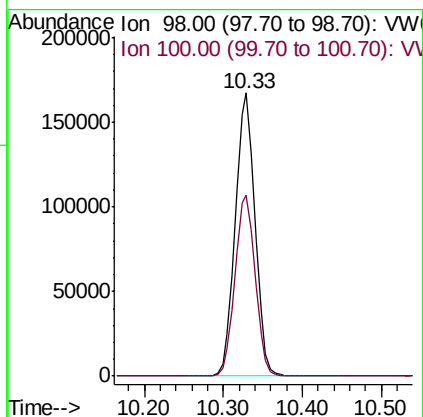
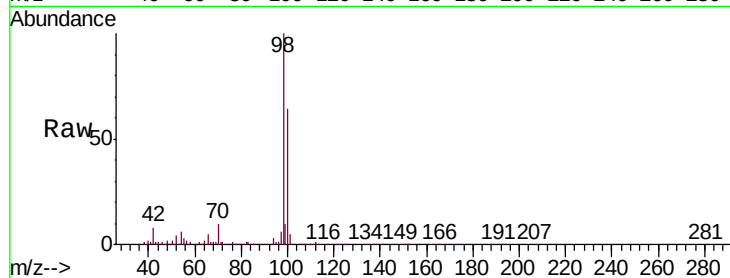
SB-1

Tgt Ion: 98 Resp: 292451

Ion Ratio Lower Upper

98 100

100 65.1 51.4 77.2



#55

1,1,2-Trichloroethane

Concen: 4.573 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.03 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Tgt Ion: 97 Resp: 6880

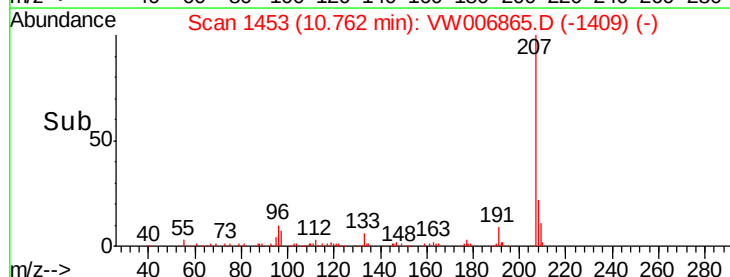
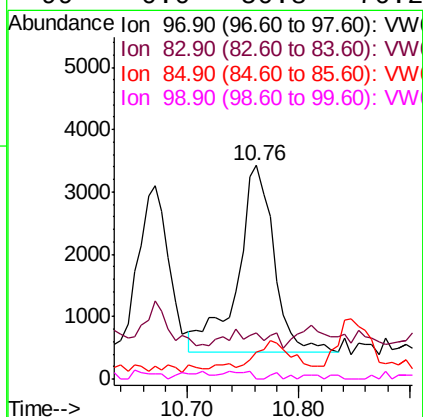
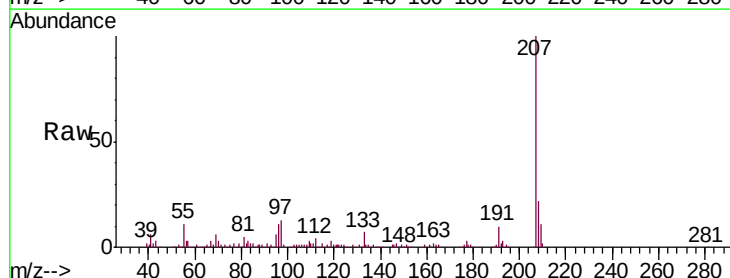
Ion Ratio Lower Upper

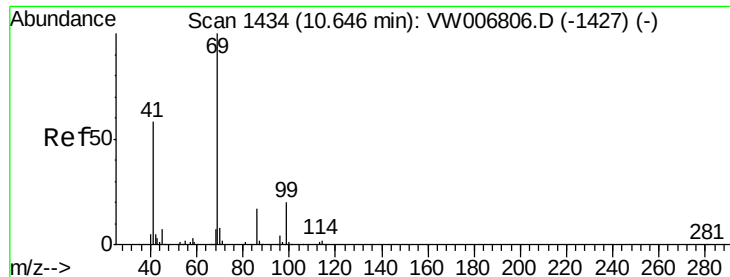
97 100

83 2.2 67.0 100.4#

85 7.0 41.7 62.5#

99 0.0 50.8 76.2#





#56

Ethyl methacrylate

Concen: 1.195 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampled :

SB-1

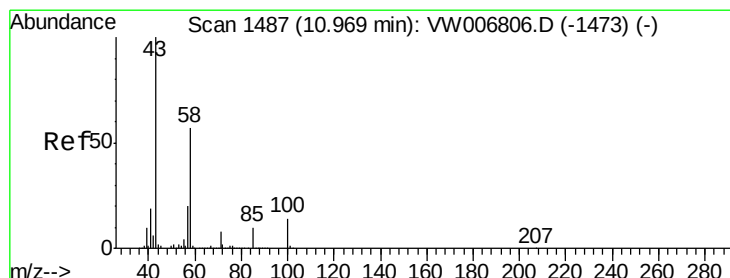
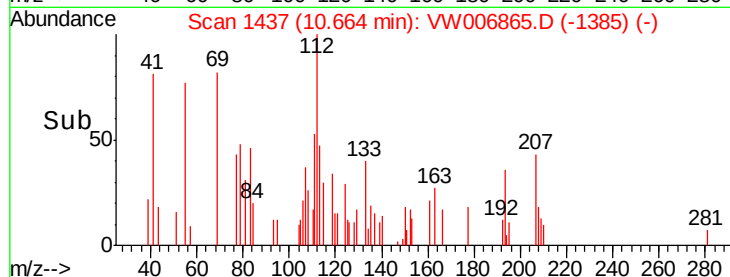
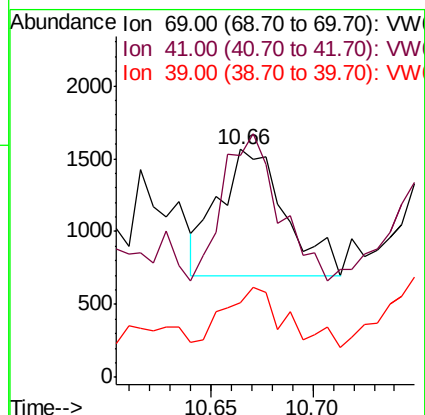
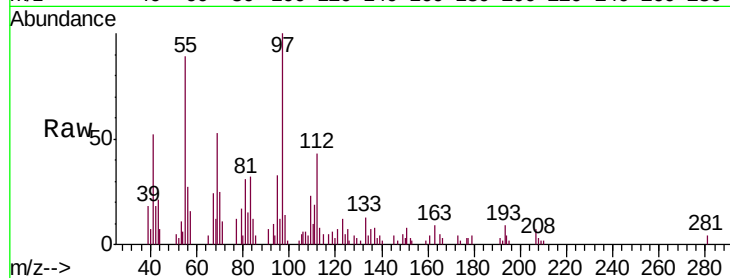
Tgt Ion: 69 Resp: 1970

Ion Ratio Lower Upper

69 100

41 98.0 47.0 70.4#

39 48.2 23.1 34.7#



#59

2-Hexanone

Concen: 6.731 ug/l

RT: 10.94 min Scan# 1482

Delta R.T. -0.03 min

Lab File: VW006865.D

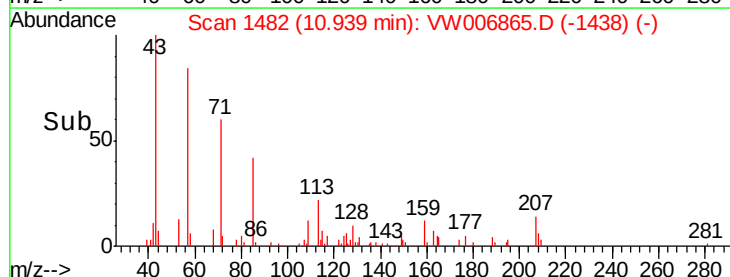
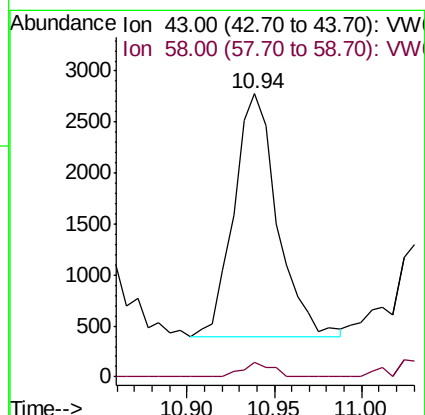
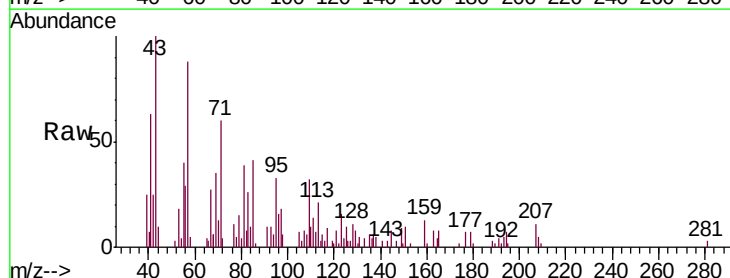
Acq: 13 Nov 2018 19:52

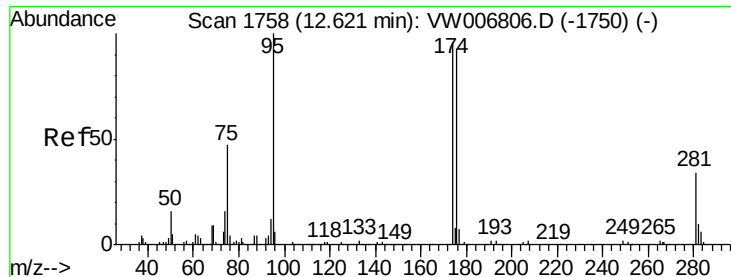
Tgt Ion: 43 Resp: 4161

Ion Ratio Lower Upper

43 100

58 4.0 28.7 86.1#

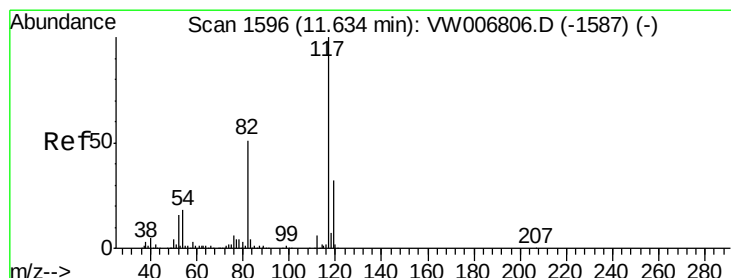
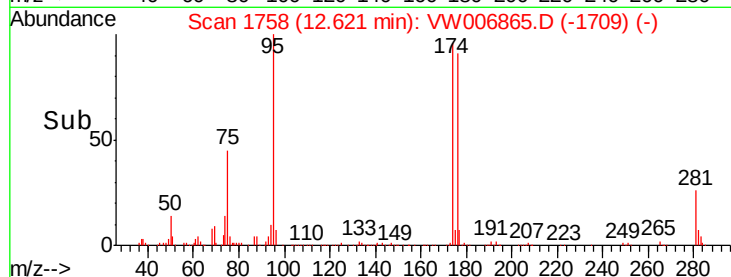
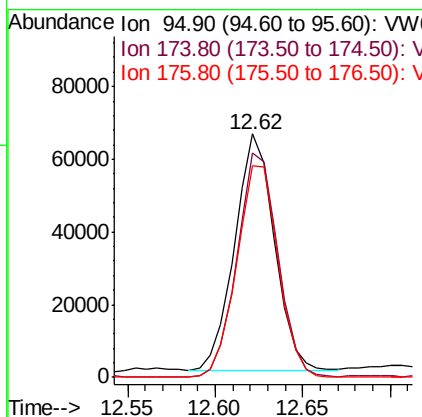
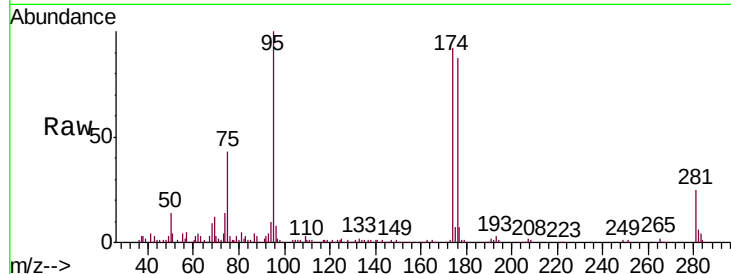




#62
4-Bromofluorobenzene
Concen: 37.862 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW006865.D
Acq: 13 Nov 2018 19:52

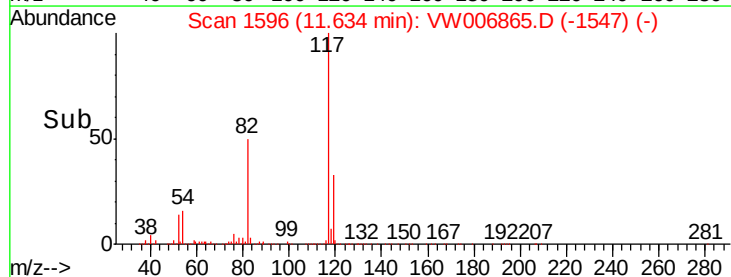
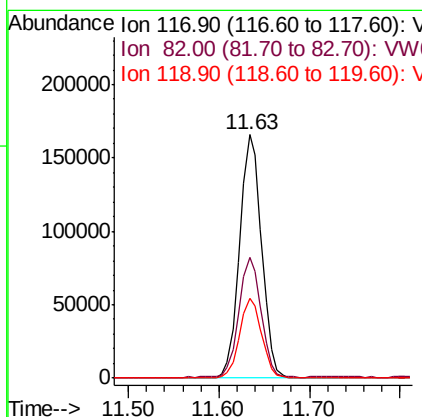
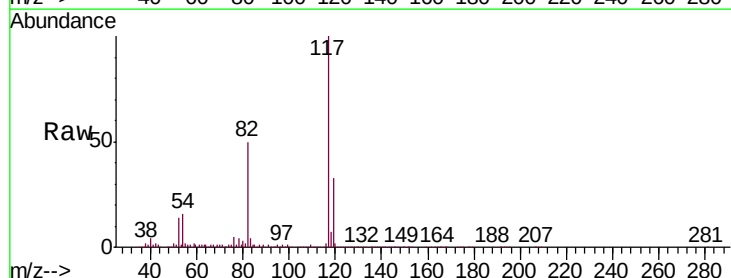
Instrument :
MSVOA_W
ClientSampleId :
SB-1

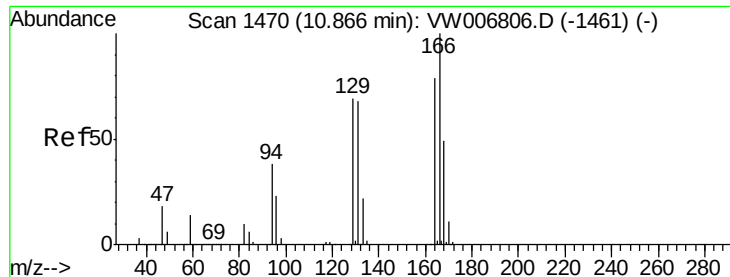
Tgt Ion: 95 Resp: 103371
Ion Ratio Lower Upper
95 100
174 96.0 0.0 196.6
176 93.2 0.0 191.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW006865.D
Acq: 13 Nov 2018 19:52

Tgt Ion: 117 Resp: 277175
Ion Ratio Lower Upper
117 100
82 49.3 40.6 61.0
119 32.5 25.5 38.3





#64

Tetrachloroethene

Concen: 1.456 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampleId :

SB-1

Tgt Ion:164 Resp: 3234

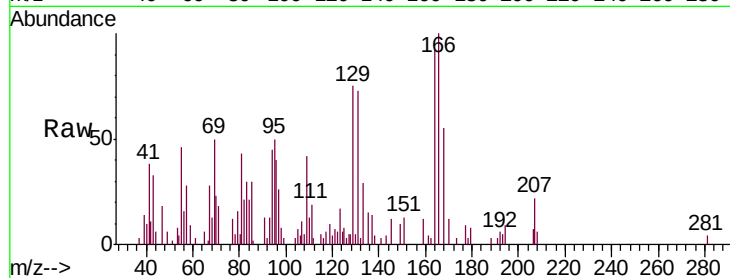
Ion Ratio Lower Upper

164 100

166 112.0 101.3 151.9

129 74.8 69.6 104.4

131 75.2 68.7 103.1

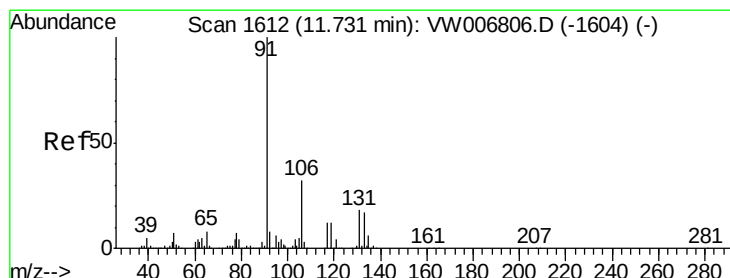
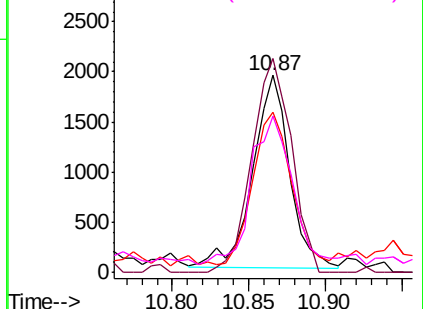
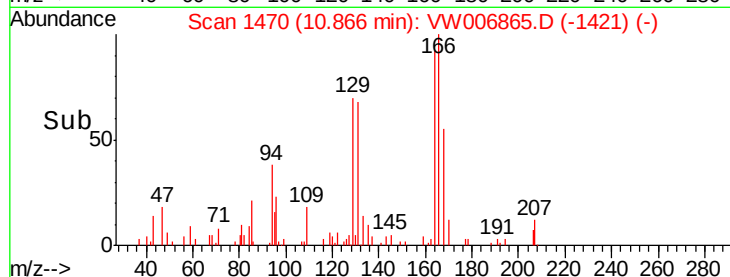


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 1.249 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW006865.D

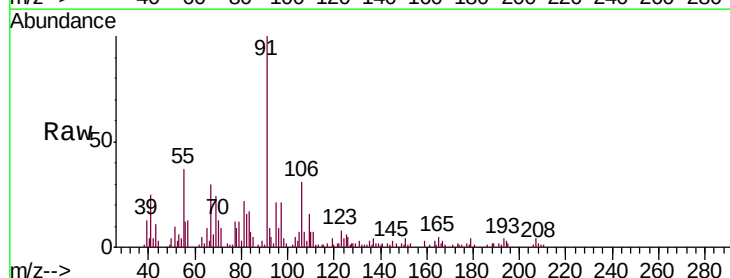
Acq: 13 Nov 2018 19:52

Tgt Ion: 91 Resp: 13091

Ion Ratio Lower Upper

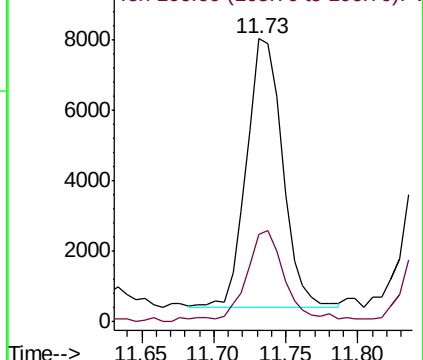
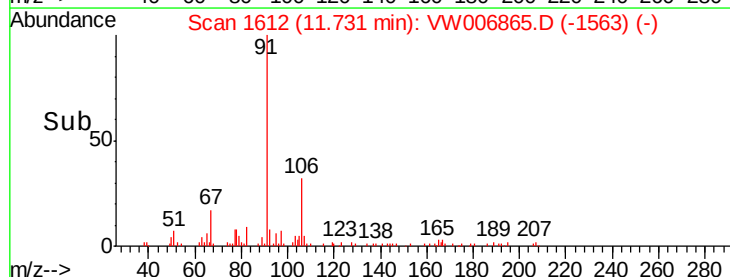
91 100

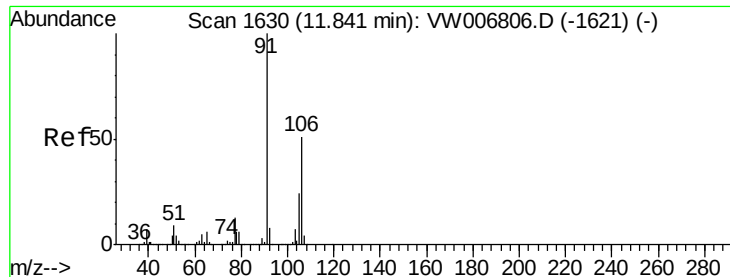
106 31.6 25.4 38.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 1.426 ug/l

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampleId :

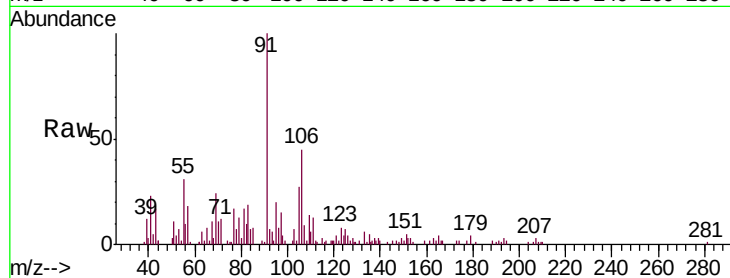
SB-1

Tgt Ion:106 Resp: 6115

Ion Ratio Lower Upper

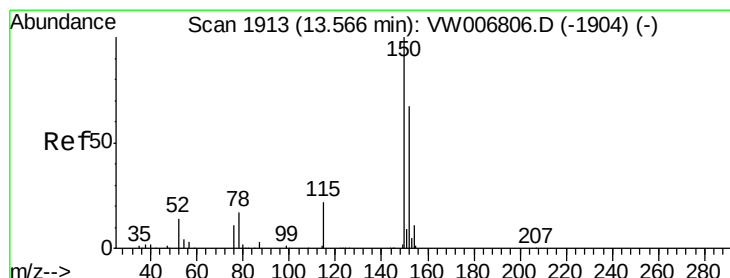
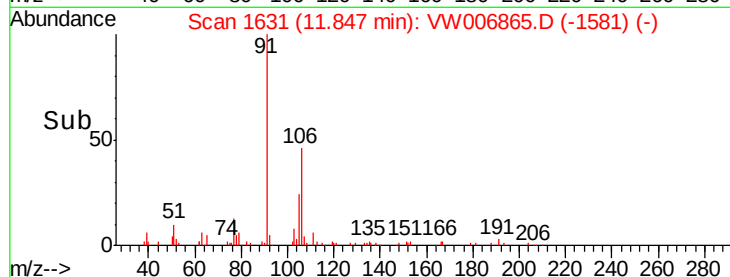
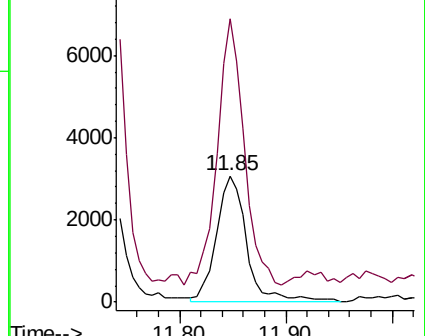
106 100

91 184.5 155.7 233.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

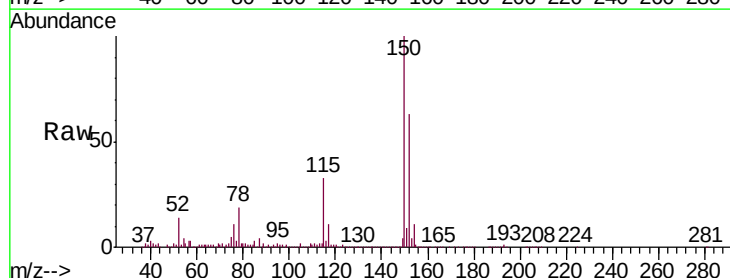
Tgt Ion:152 Resp: 139841

Ion Ratio Lower Upper

152 100

115 55.0 27.3 81.8

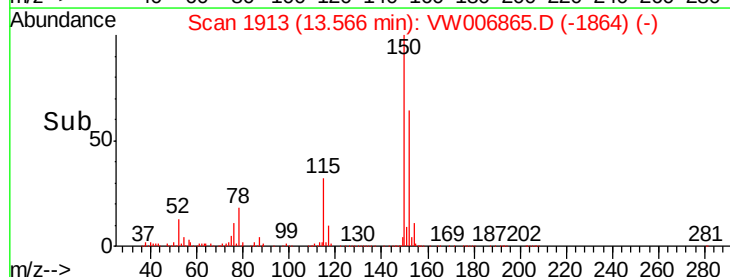
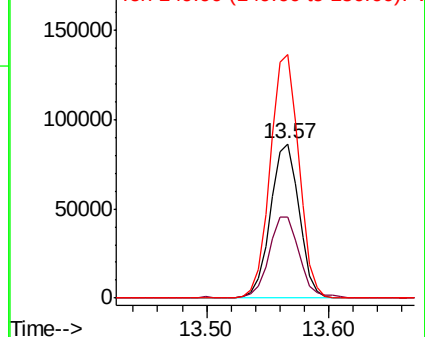
150 158.0 0.0 353.0

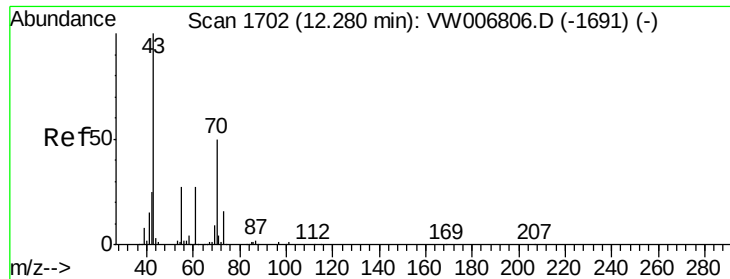


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 3.884 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampled :

SB-1

Tgt Ion: 43 Resp: 5701

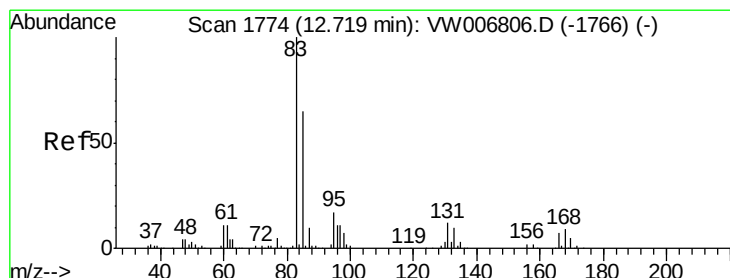
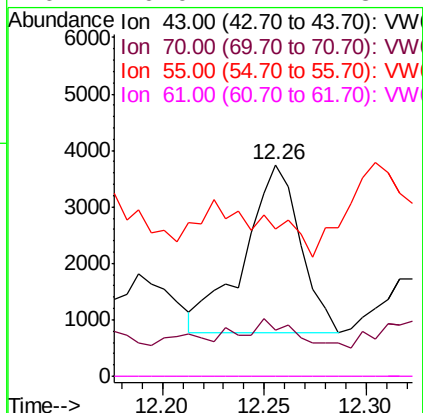
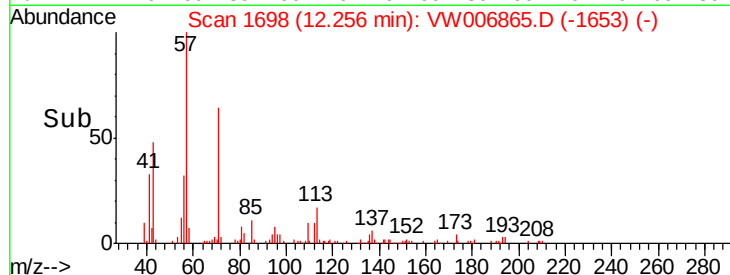
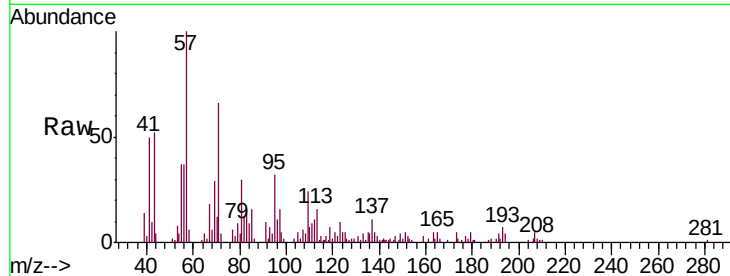
Ion Ratio Lower Upper

43 100

70 10.3 39.0 58.4#

55 0.0 22.1 33.1#

61 0.0 21.1 31.7#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.123 ug/l

RT: 12.79 min Scan# 1785

Delta R.T. 0.07 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

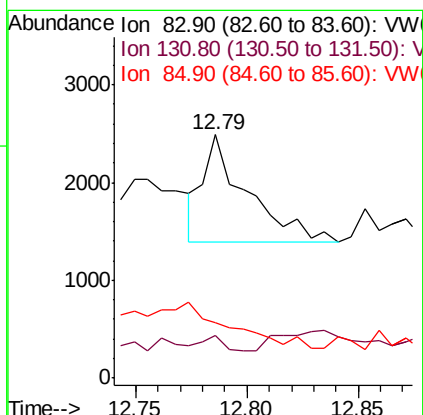
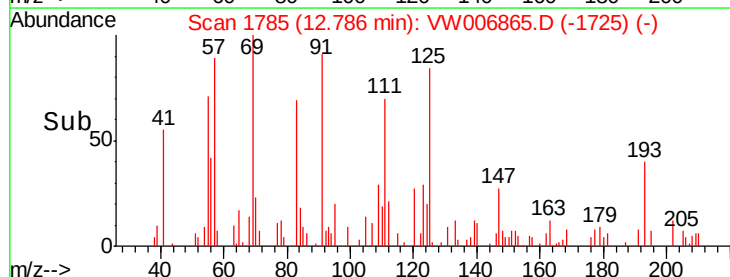
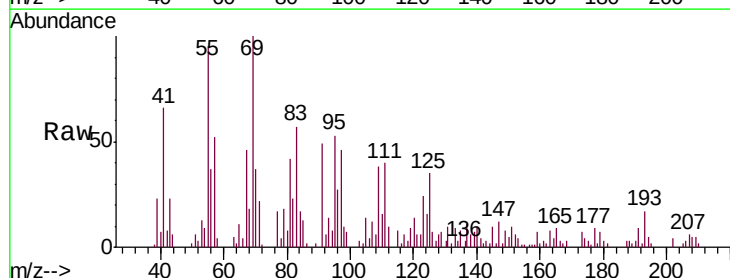
Tgt Ion: 83 Resp: 1508

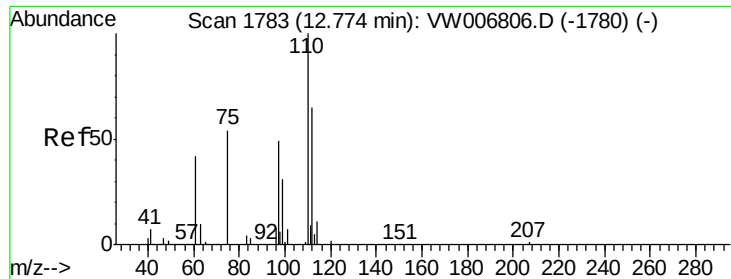
Ion Ratio Lower Upper

83 100

131 6.8 6.1 18.3

85 90.0 32.4 97.0

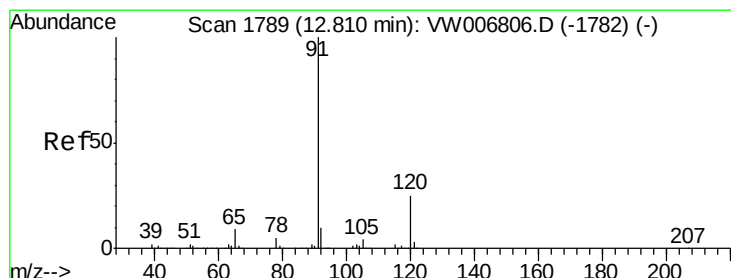
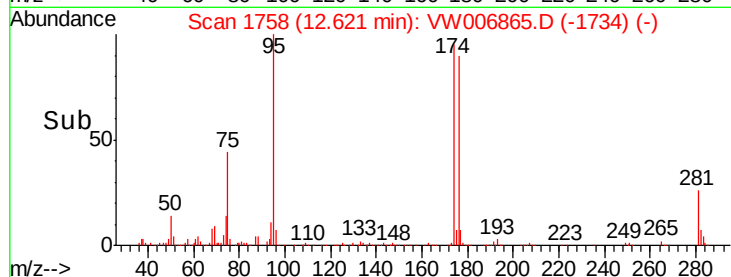
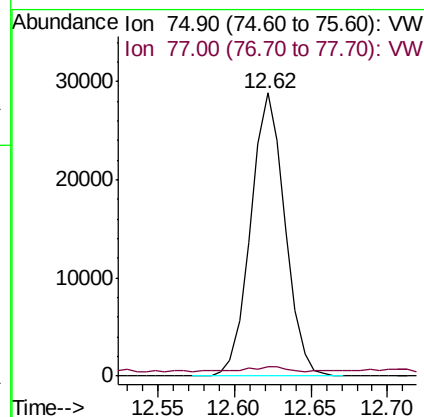
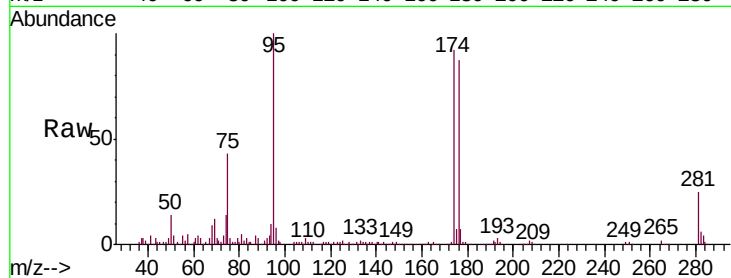




#76
 1,2,3-Trichloropropane
 Concen: 44.475 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW006865.D
 Acq: 13 Nov 2018 19:52

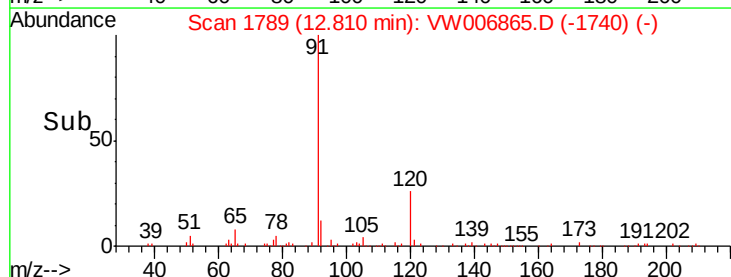
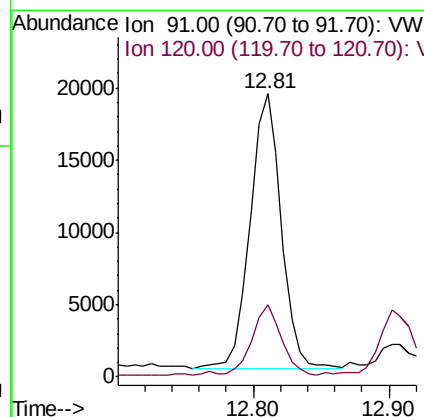
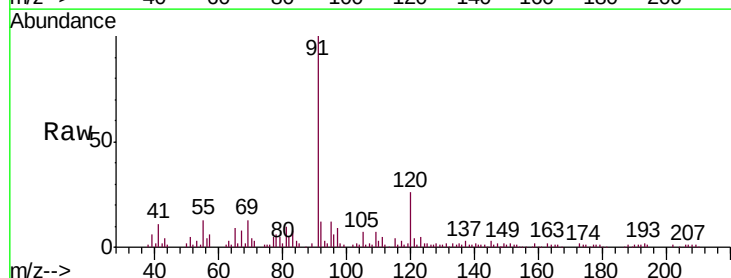
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-1

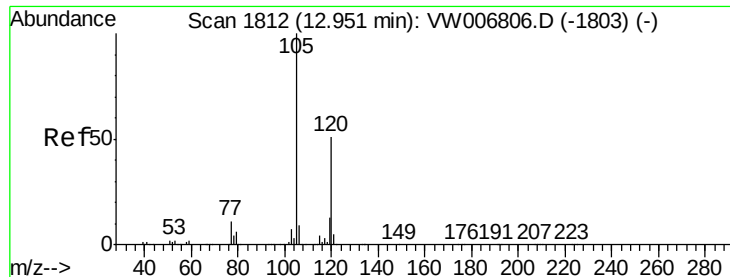
Tgt Ion: 75 Resp: 44821
 Ion Ratio Lower Upper
 75 100
 77 2.0 0.0 0.0#



#78
 n-propylbenzene
 Concen: 2.659 ug/l
 RT: 12.81 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VW006865.D
 Acq: 13 Nov 2018 19:52

Tgt Ion: 91 Resp: 30464
 Ion Ratio Lower Upper
 91 100
 120 24.7 12.4 37.4

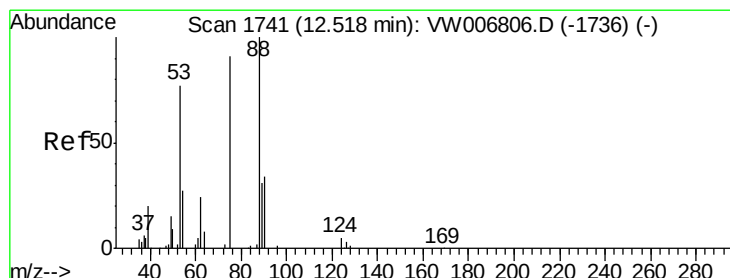
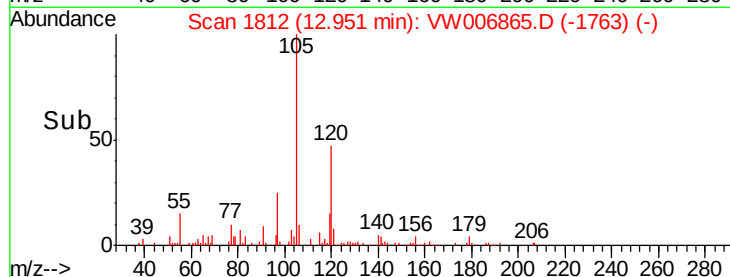
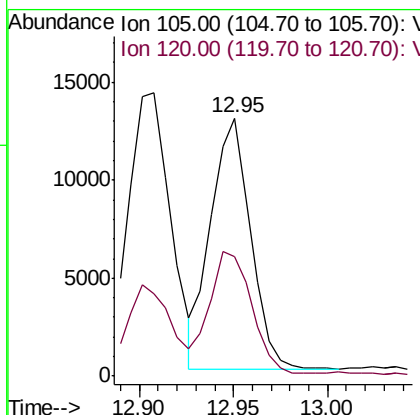
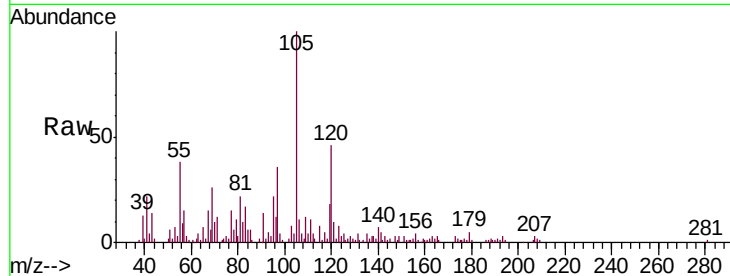




#80
 1,3,5-Trimethylbenzene
 Concen: 2.251 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.00 min
 Lab File: VW006865.D
 Acq: 13 Nov 2018 19:52

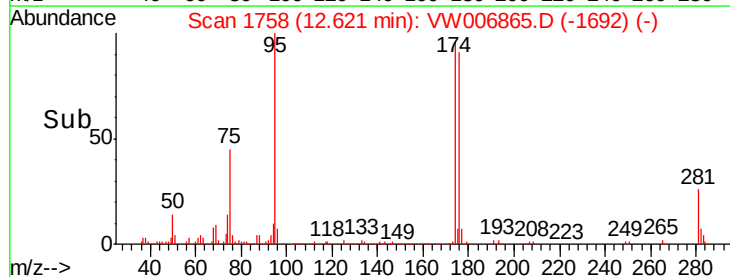
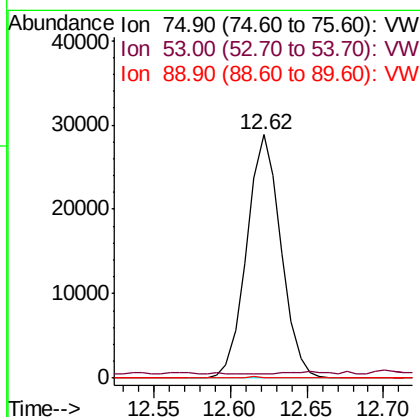
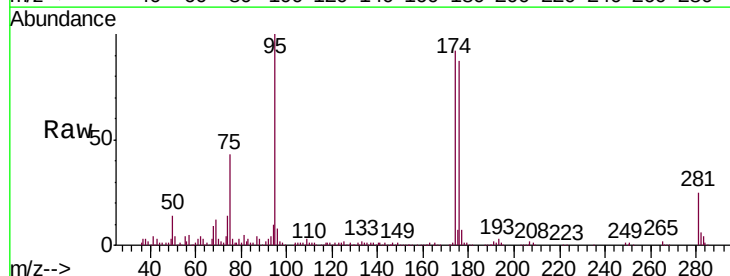
Instrument :
 MSVOA_W
 ClientSampled :
 SB-1

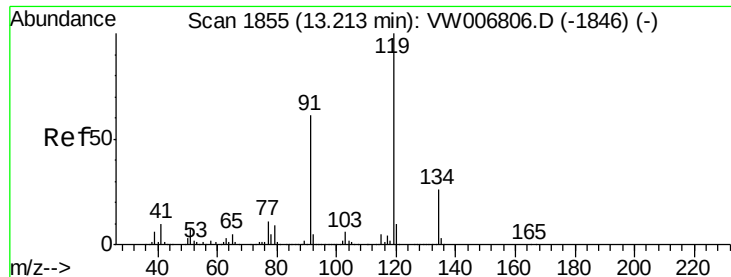
Tgt Ion: 105 Resp: 18781
 Ion Ratio Lower Upper
 105 100
 120 51.1 25.3 75.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 110.012 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW006865.D
 Acq: 13 Nov 2018 19:52

Tgt Ion: 75 Resp: 44821
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.9 109.3#
 89 0.5 38.7 58.1#





#83

tert-Butylbenzene

Concen: 1.602 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.04 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampled :

SB-1

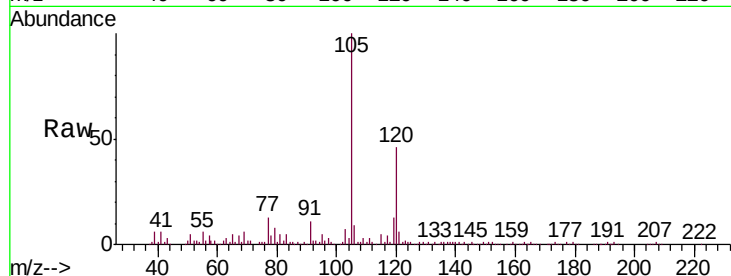
Tgt Ion:119 Resp: 11819

Ion Ratio Lower Upper

119 100

91 54.7 30.0 90.1

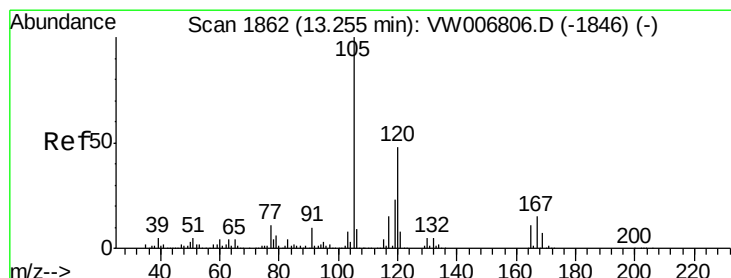
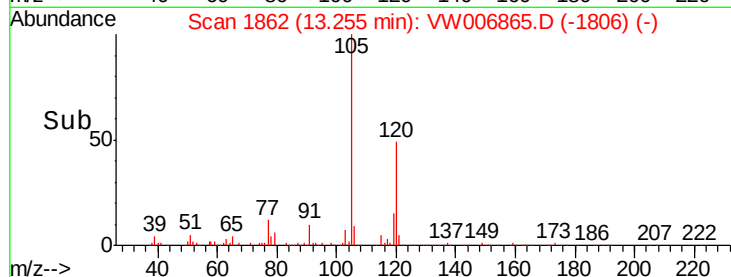
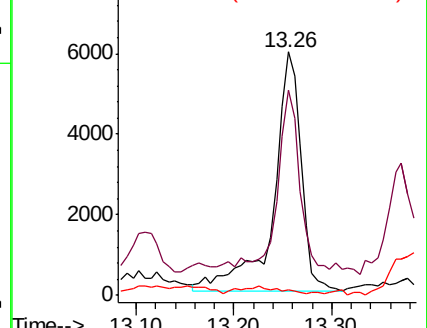
134 0.0 13.4 40.2#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 7.961 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW006865.D

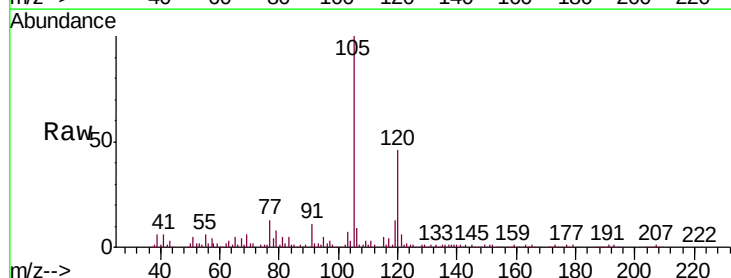
Acq: 13 Nov 2018 19:52

Tgt Ion:105 Resp: 67602

Ion Ratio Lower Upper

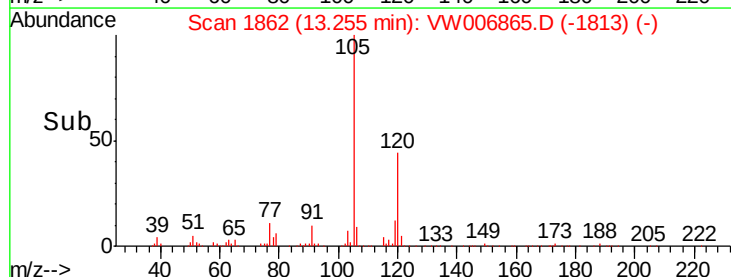
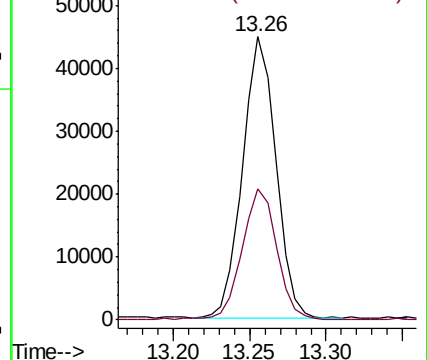
105 100

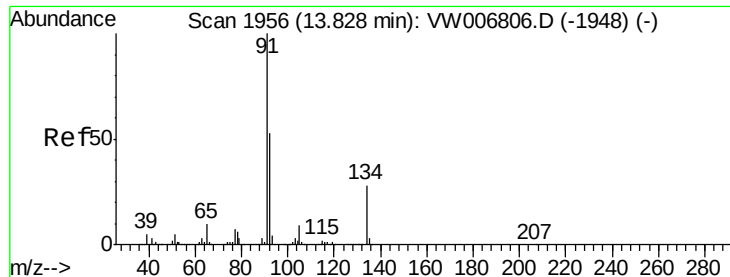
120 49.1 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#89

n-Butylbenzene

Concen: 1.675 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW006865.D

Acq: 13 Nov 2018 19:52

Instrument :

MSVOA_W

ClientSampled :

SB-1

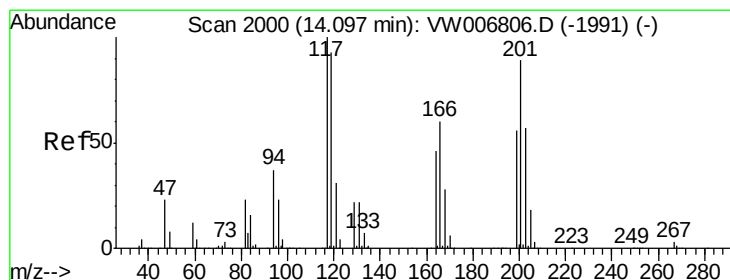
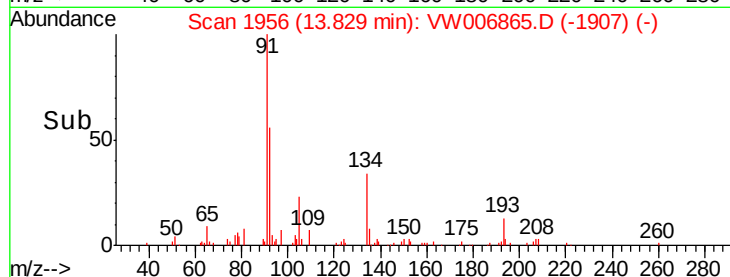
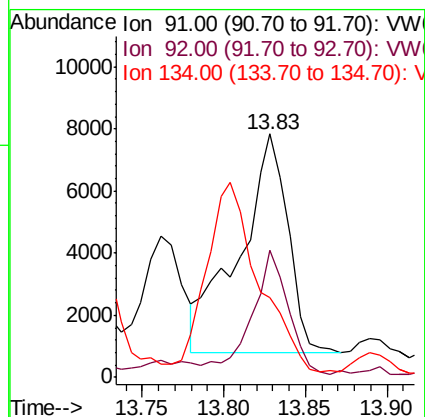
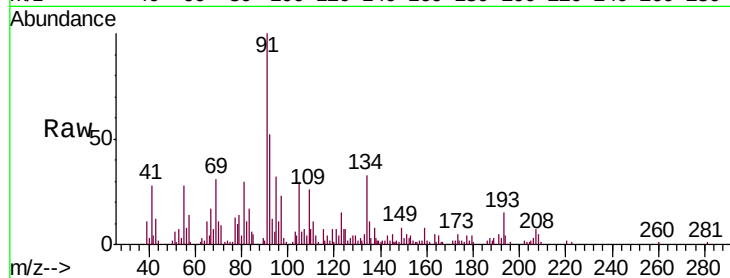
Tgt Ion: 91 Resp: 14552

Ion Ratio Lower Upper

91 100

92 42.4 26.5 79.4

134 0.0 14.4 43.2#



#90

Hexachloroethane

Concen: 3.026 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW006865.D

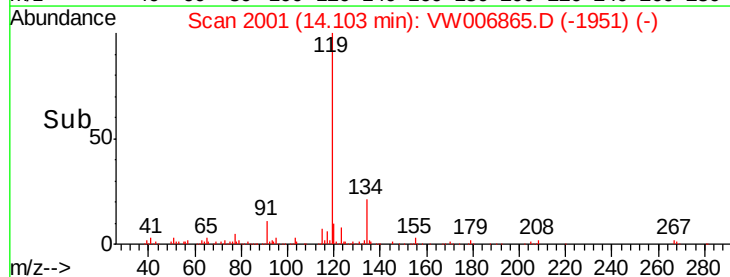
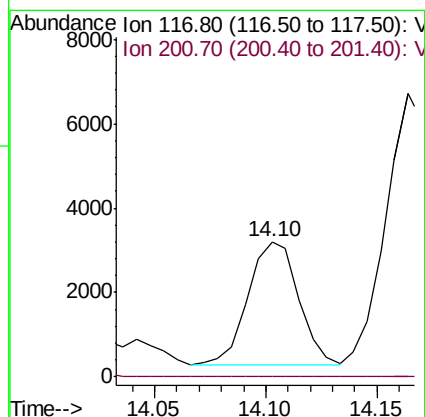
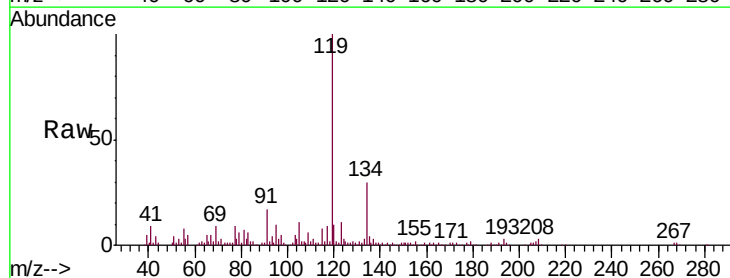
Acq: 13 Nov 2018 19:52

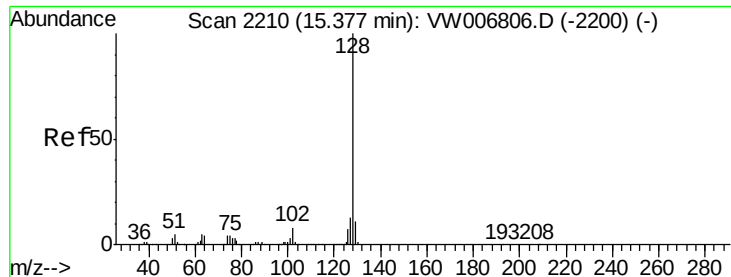
Tgt Ion: 117 Resp: 4603

Ion Ratio Lower Upper

117 100

201 0.0 46.9 140.6#

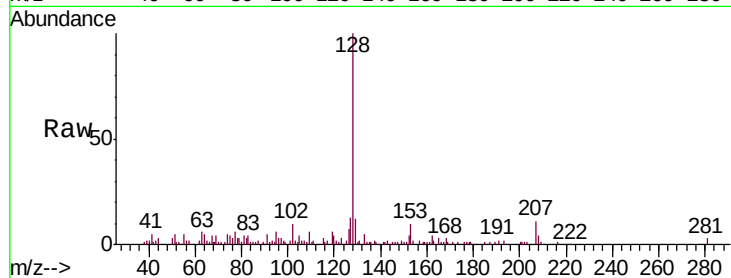




#95
Naphthalene
Concen: 4.340 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VW006865.D
Acq: 13 Nov 2018 19:52

Instrument :
MSVOA_W
ClientSampleId :
SB-1

Tgt Ion:	128	Resp:	21288
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.6	13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

