

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW061019\
 Data File : VW010757.D
 Acq On : 10 Jun 2019 20:44
 Operator : SY/VA
 Sample : K3274-02
 Misc : 4.53G/5ML/MSVOA_W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-11 1.0-1.5 060719

Quant Time: Jun 11 05:28:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 05 03:21:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	166253	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	292422	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	262463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	118944	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	114312	58.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.68%	
35) Dibromofluoromethane	7.88	113	85738	54.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.04%	
50) Toluene-d8	10.32	98	384173	55.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.40%	
62) 4-Bromofluorobenzene	12.62	95	151257	59.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	119.44%	

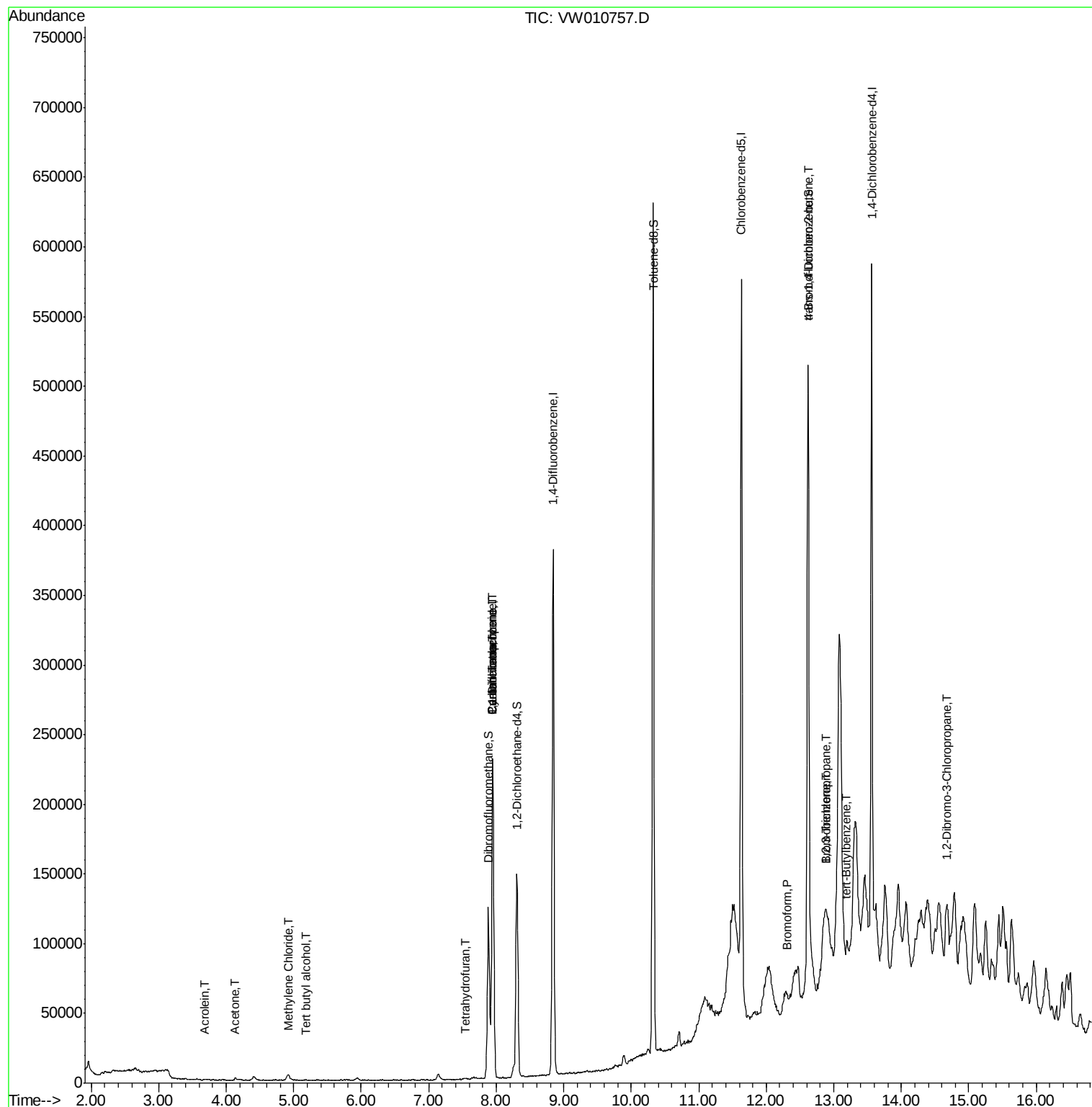
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	282	1.766	ug/l #	72
13) Acrolein	3.68	56	78	1.196	ug/l #	1
16) Acetone	4.13	43	1124	2.141	ug/l	92
20) Methylene Chloride	4.92	84	2757	1.497	ug/l	90
29) Tetrahydrofuran	7.54	42	955	2.085	ug/l #	74
31) Cyclohexane	7.95	56	4542	1.149	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	14427	4.820	ug/l #	52
38) Carbon Tetrachloride	7.95	117	17380	6.726	ug/l #	19
71) Bromoform	12.32	173	2029	2.196	ug/l #	52
76) 1,2,3-Trichloropropane	12.88	75	2354	1.885	ug/l #	100
77) Bromobenzene	12.88	156	90122	46.191	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	74008	136.177	ug/l #	7
83) tert-Butylbenzene	13.18	119	8975	1.445	ug/l #	38
92) 1,2-Dibromo-3-Chloropropan	14.68	75	358	1.225	ug/l	74

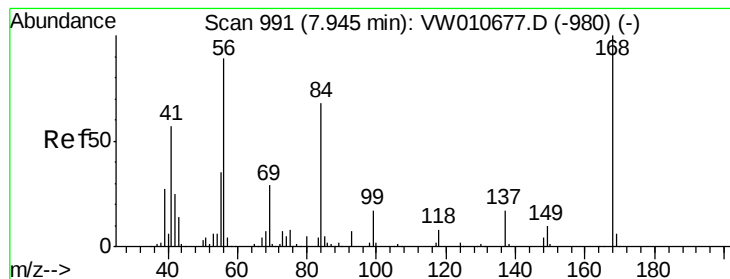
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010757.D

Acq: 10 Jun 2019 20:44

Instrument :

MSVOA_W

ClientSampleId :

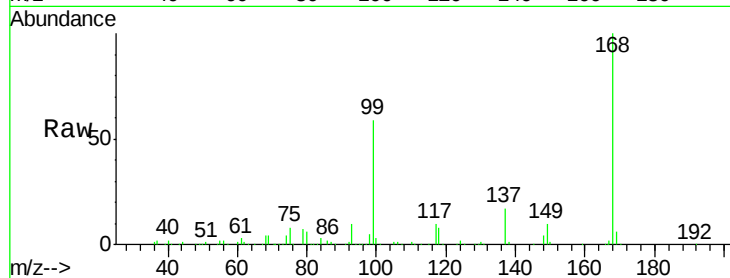
SB-11 1.0-1.5 060719

Tgt Ion:168 Resp: 166253

Ion Ratio Lower Upper

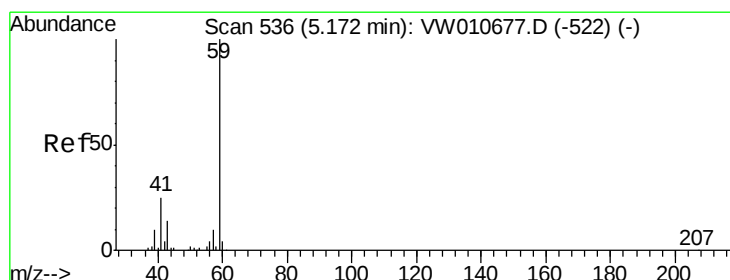
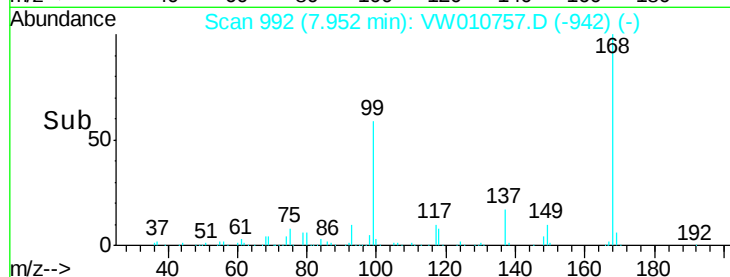
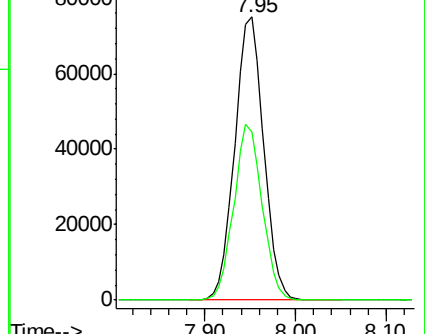
168 100

99 59.4 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.766 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW010757.D

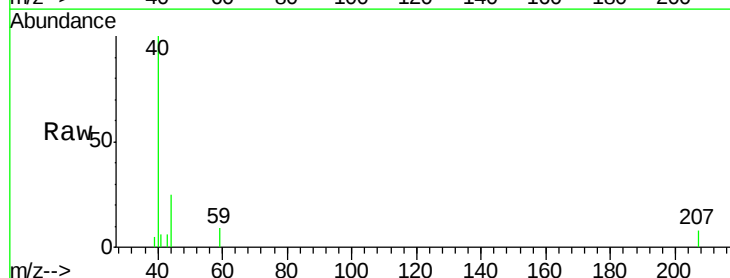
Acq: 10 Jun 2019 20:44

Tgt Ion: 59 Resp: 282

Ion Ratio Lower Upper

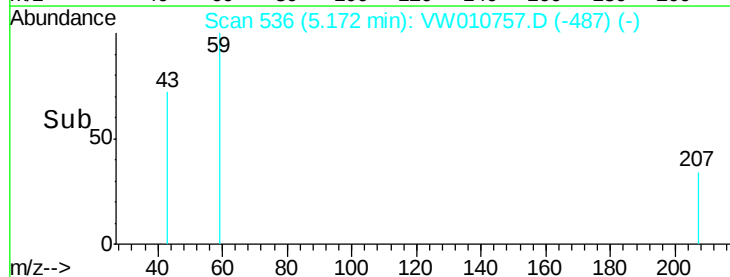
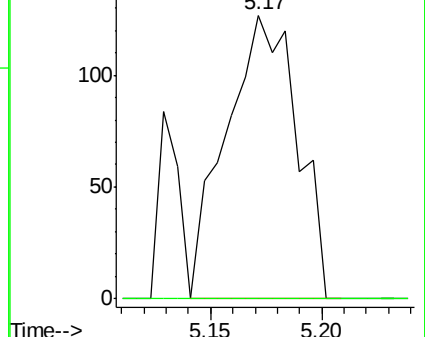
59 100

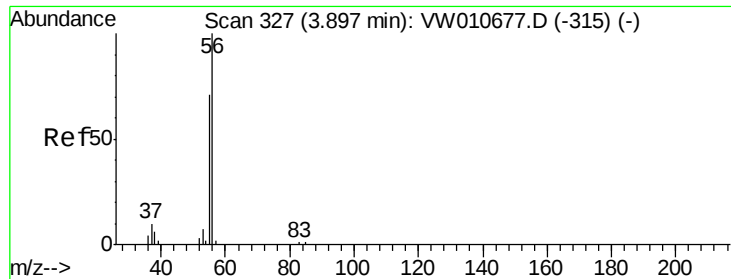
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.196 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.22 min

Lab File: VW010757.D

Acq: 10 Jun 2019 20:44

Instrument :

MSVOA_W

ClientSampleId :

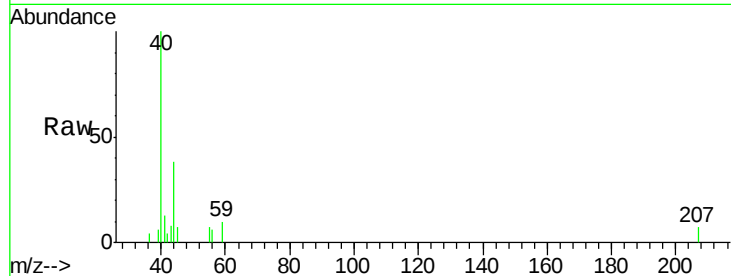
SB-11 1.0-1.5 060719

Tgt Ion: 56 Resp: 78

Ion Ratio Lower Upper

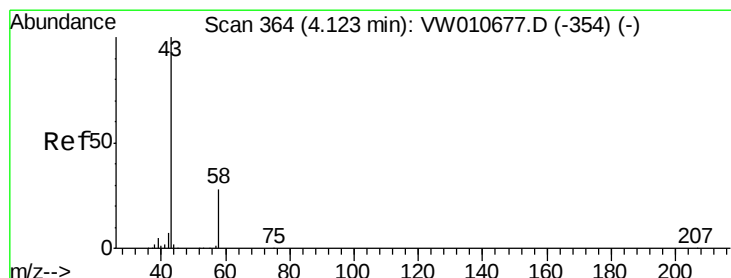
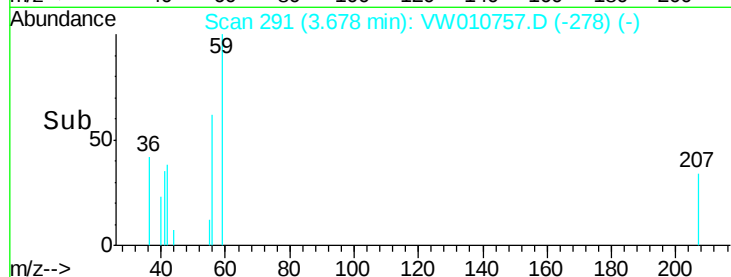
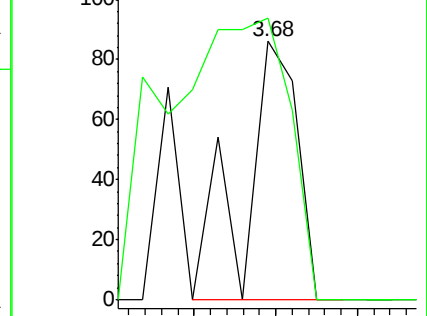
56 100

55 255.1 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 2.141 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010757.D

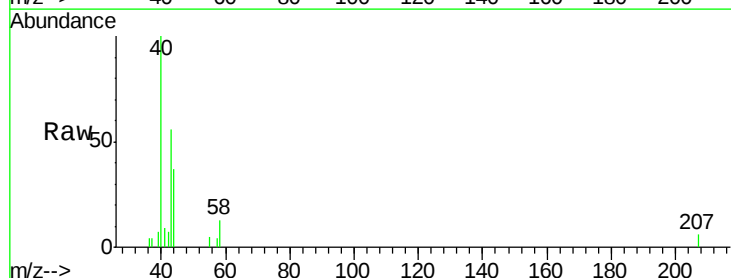
Acq: 10 Jun 2019 20:44

Tgt Ion: 43 Resp: 1124

Ion Ratio Lower Upper

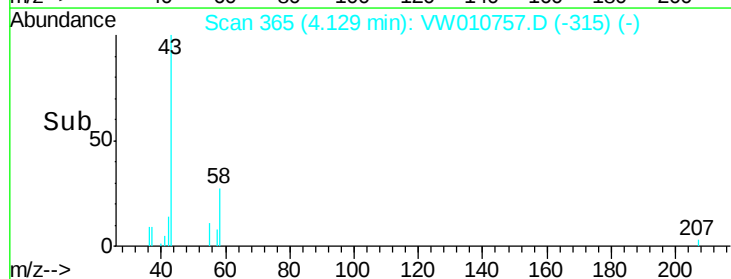
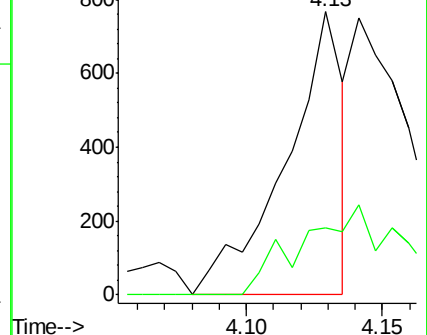
43 100

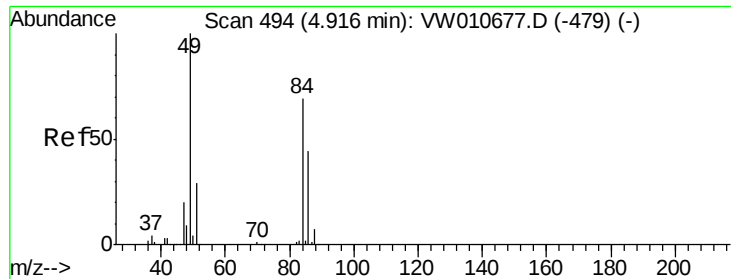
58 23.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

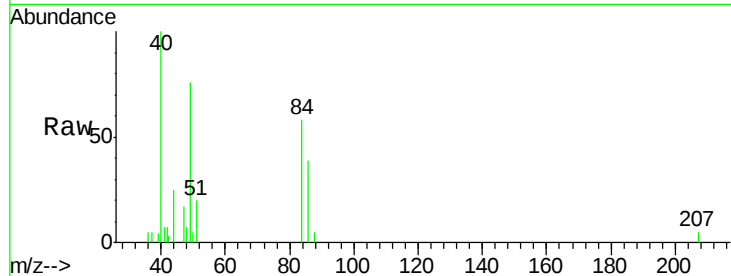




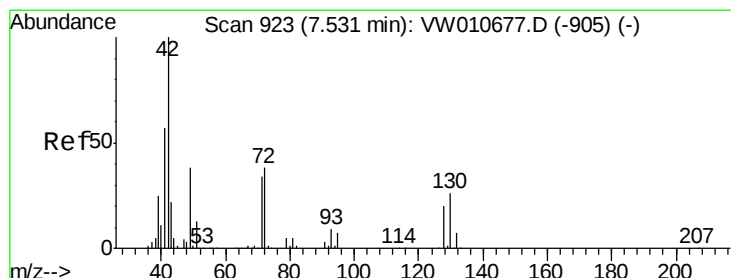
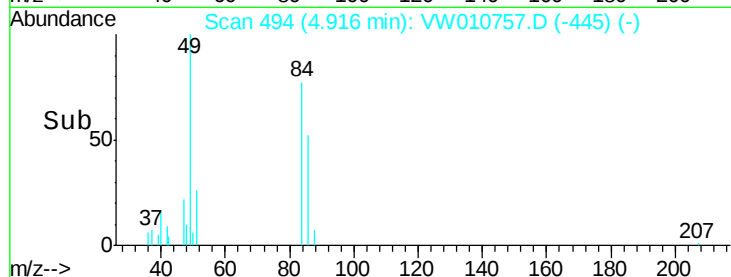
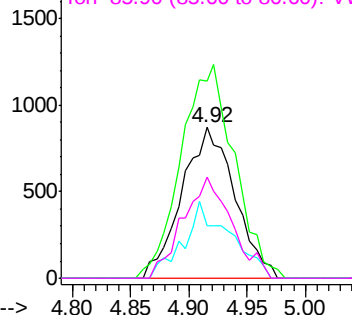
#20
Methylene Chloride
Concen: 1.497 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010757.D
Acq: 10 Jun 2019 20:44

Instrument :
MSVOA_W
ClientSampleId :
SB-11 1.0-1.5 060719

Tgt Ion: 84 Resp: 2757
Ion Ratio Lower Upper
84 100
49 130.4 116.7 175.1
51 34.5 34.2 51.2
86 67.4 51.2 76.8

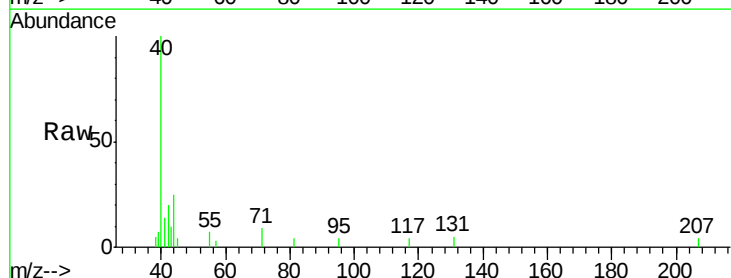


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

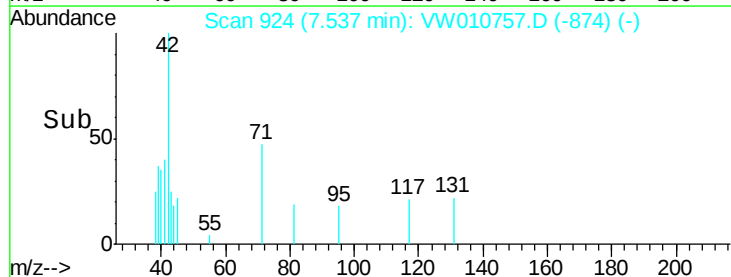
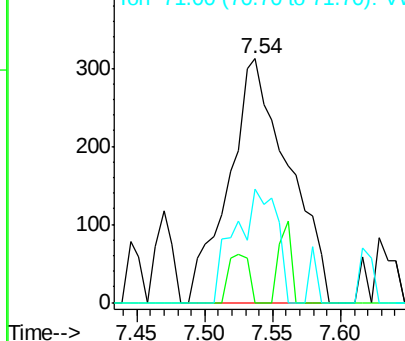


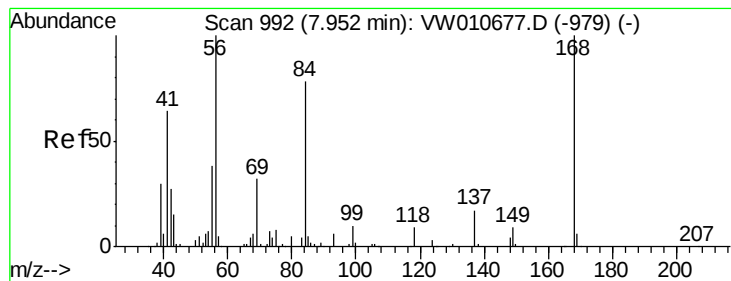
#29
Tetrahydrofuran
Concen: 2.085 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW010757.D
Acq: 10 Jun 2019 20:44

Tgt Ion: 42 Resp: 955
Ion Ratio Lower Upper
42 100
72 6.6 28.7 43.1#
71 32.8 26.6 39.8



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: 1.149 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010757.D

Acq: 10 Jun 2019 20:44

Instrument :

MSVOA_W

ClientSampleId :

SB-11 1.0-1.5 060719

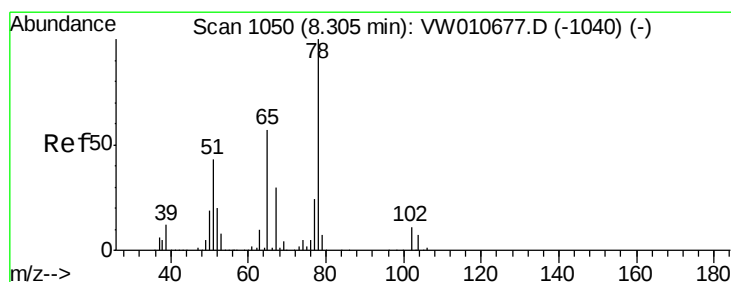
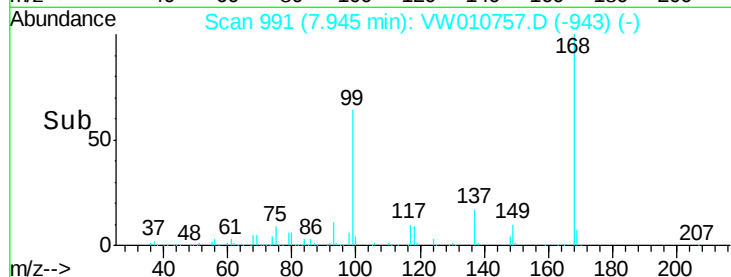
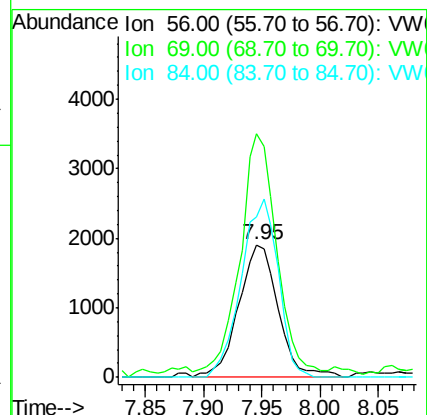
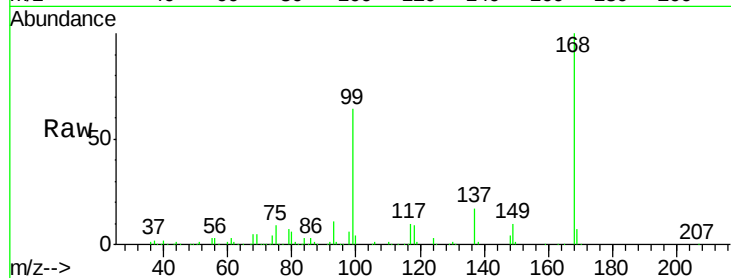
Tgt Ion: 56 Resp: 4542

Ion Ratio Lower Upper

56 100

69 180.0 25.2 37.8#

84 121.7 62.2 93.2#



#33

1,2-Dichloroethane-d4

Concen: 58.335 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW010757.D

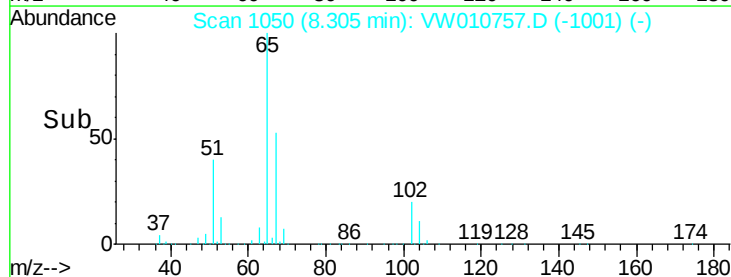
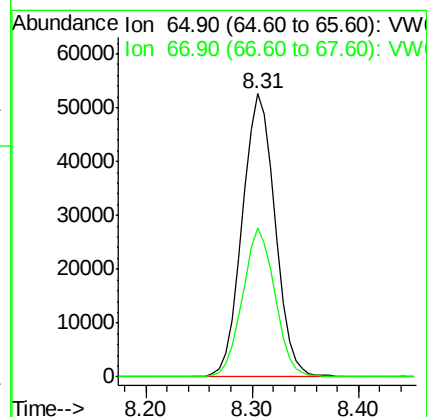
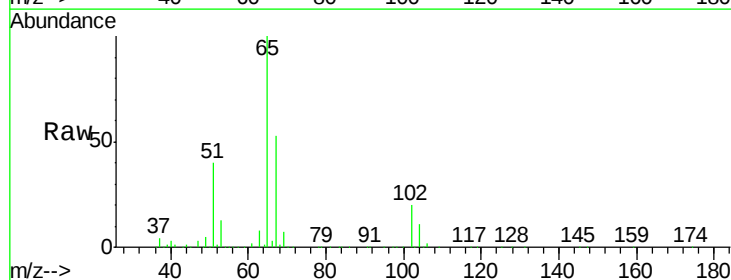
Acq: 10 Jun 2019 20:44

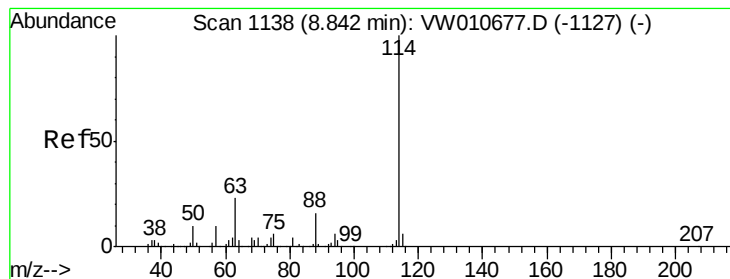
Tgt Ion: 65 Resp: 114312

Ion Ratio Lower Upper

65 100

67 51.4 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW010757.D

Acq: 10 Jun 2019 20:44

Instrument :

MSVOA_W

ClientSampleId :

SB-11 1.0-1.5 060719

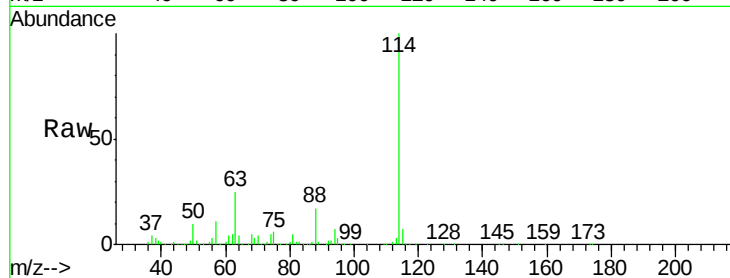
Tgt Ion:114 Resp: 292422

Ion Ratio Lower Upper

114 100

63 25.3 0.0 46.4

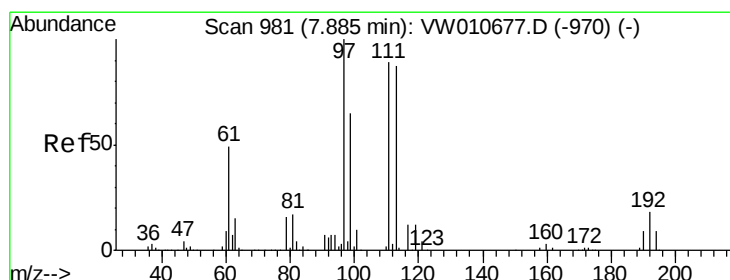
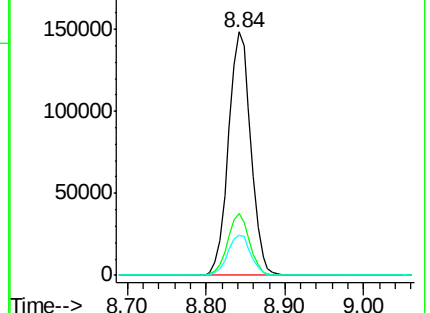
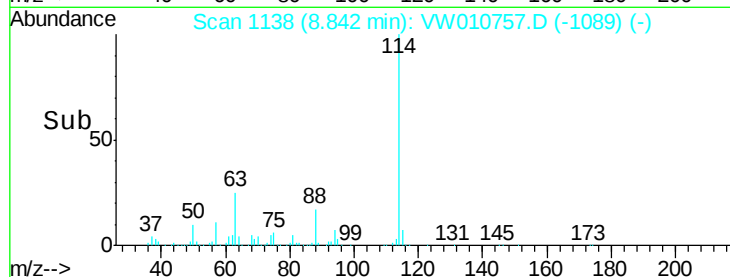
88 16.7 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 54.018 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW010757.D

Acq: 10 Jun 2019 20:44

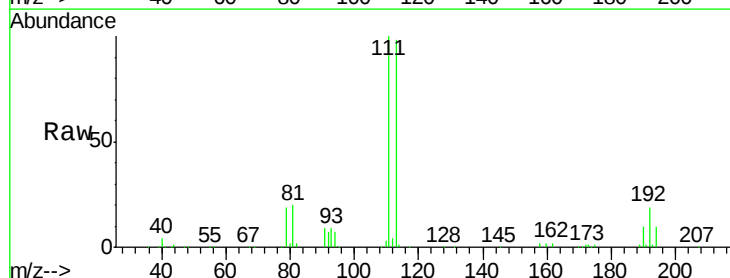
Tgt Ion:113 Resp: 85738

Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

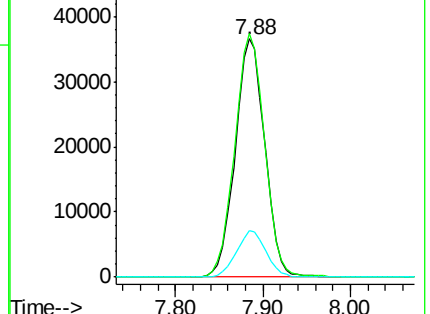
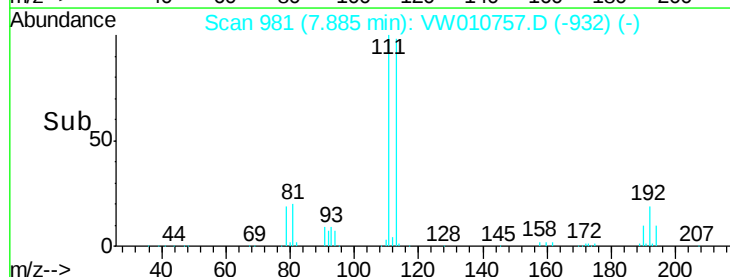
192 19.6 16.4 24.6

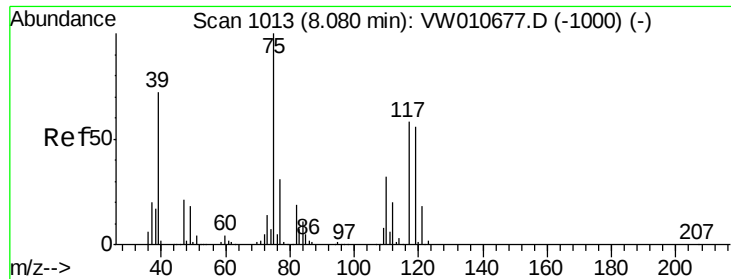


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

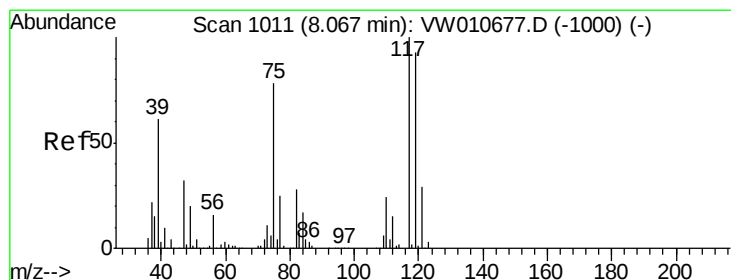
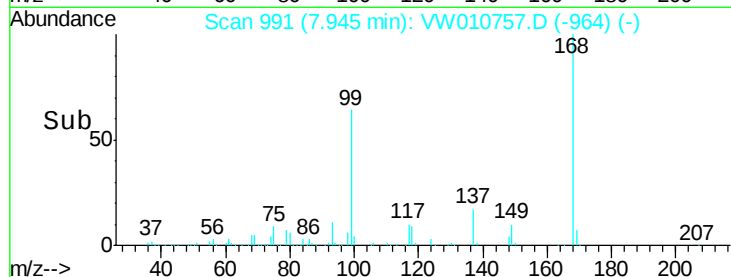
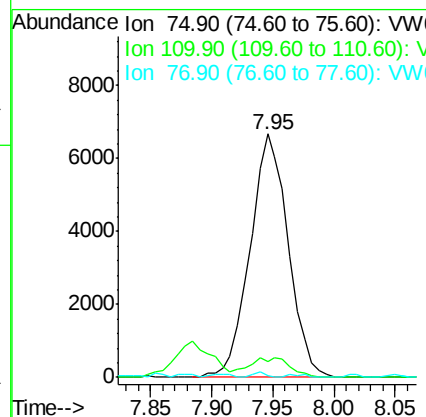
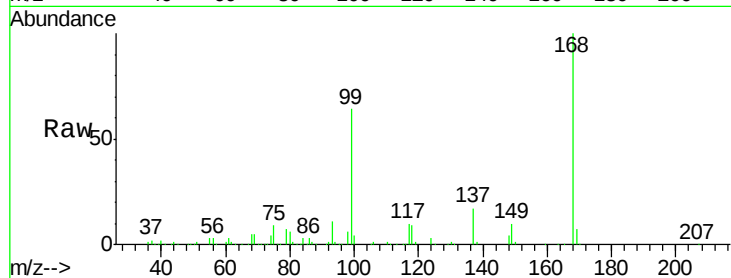




#36
 1,1-Dichloropropene
 Concen: 4.820 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010757.D
 Acq: 10 Jun 2019 20:44

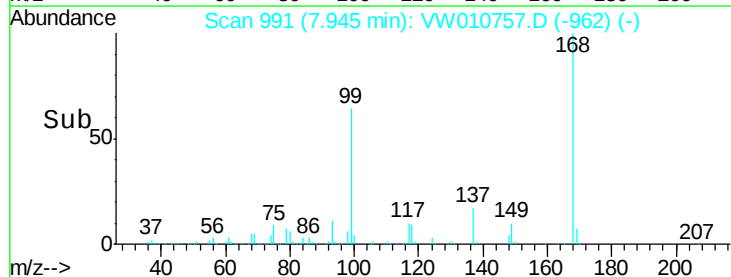
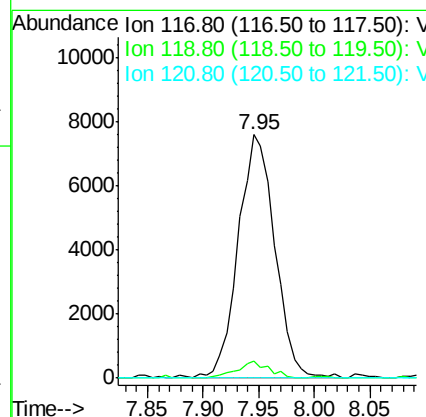
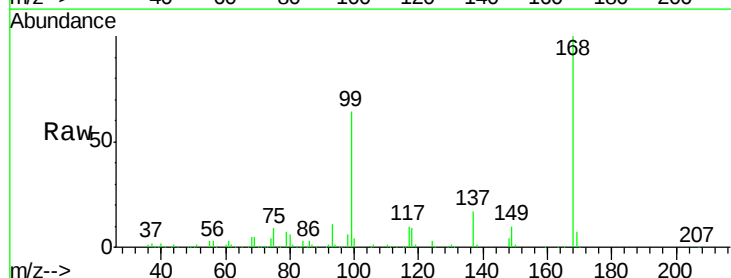
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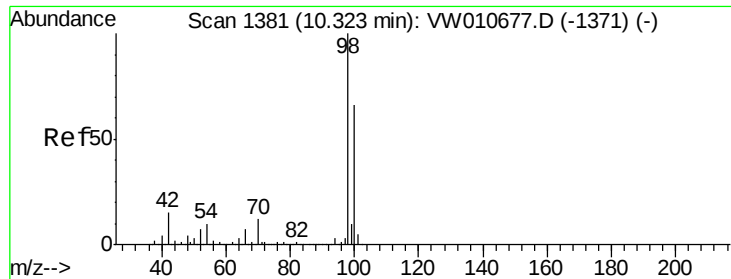
Tgt Ion: 75 Resp: 14427
 Ion Ratio Lower Upper
 75 100
 110 8.9 15.8 47.3#
 77 0.7 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.726 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW010757.D
 Acq: 10 Jun 2019 20:44

Tgt Ion: 117 Resp: 17380
 Ion Ratio Lower Upper
 117 100
 119 7.1 74.2 111.4#
 121 0.0 22.9 34.3#





#50

Toluene-d8

Concen: 55.197 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010757.D

Acq: 10 Jun 2019 20:44

Instrument :

MSVOA_W

ClientSampleId :

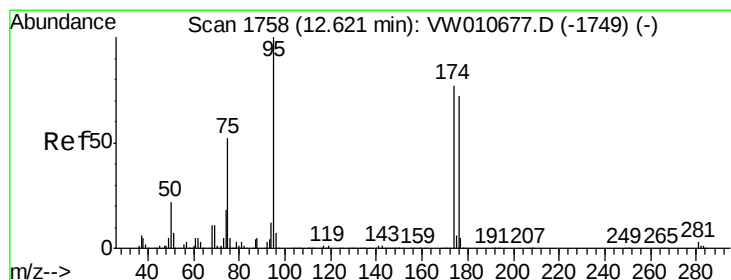
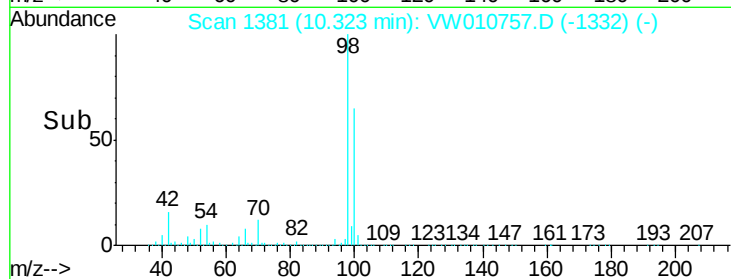
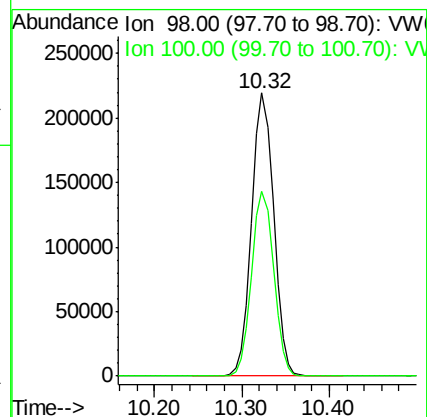
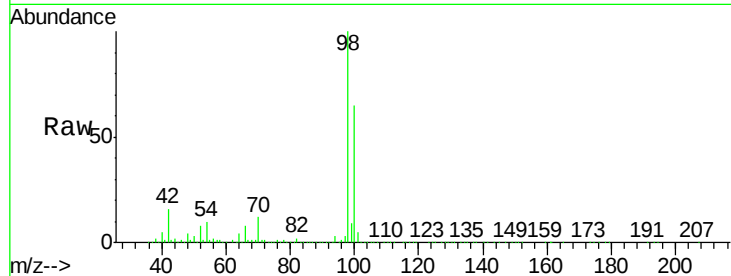
SB-11 1.0-1.5 060719

Tgt Ion: 98 Resp: 384173

Ion Ratio Lower Upper

98 100

100 65.9 53.0 79.6



#62

4-Bromofluorobenzene

Concen: 59.722 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010757.D

Acq: 10 Jun 2019 20:44

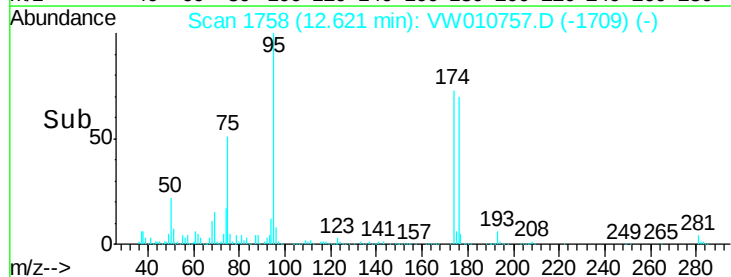
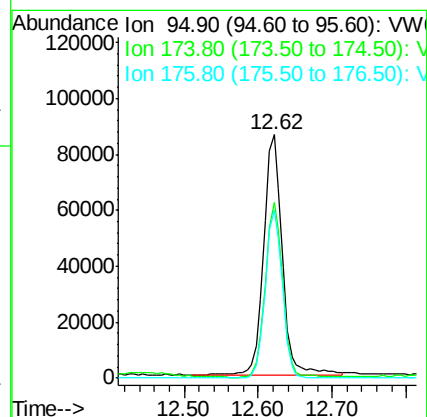
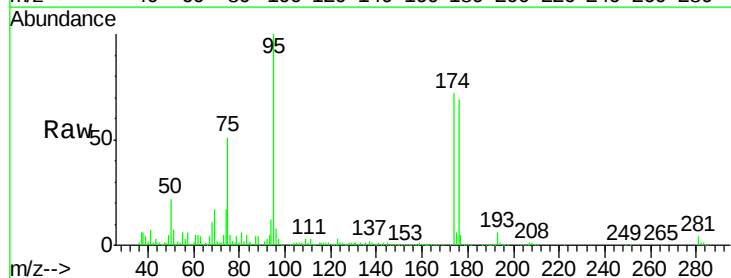
Tgt Ion: 95 Resp: 151257

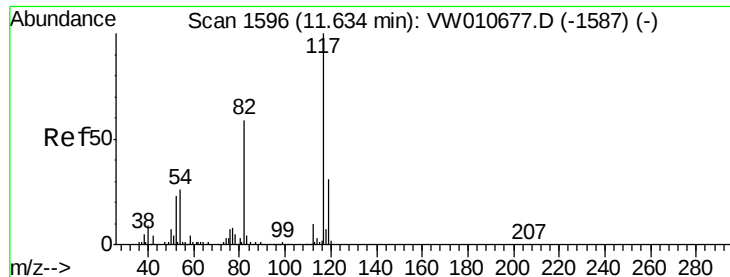
Ion Ratio Lower Upper

95 100

174 68.2 0.0 150.4

176 64.3 0.0 144.8

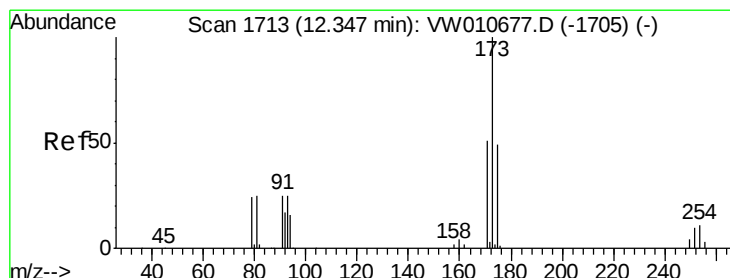
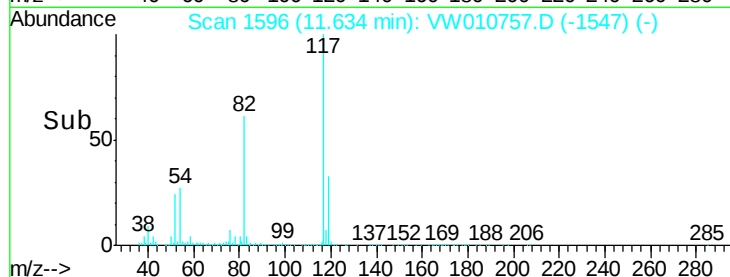
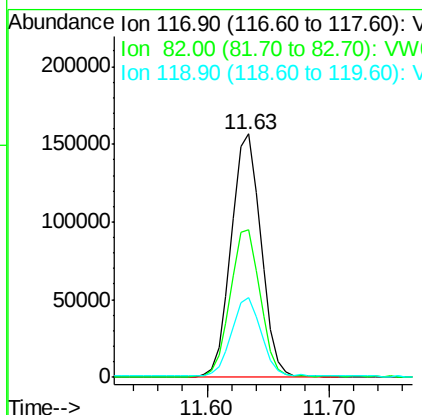
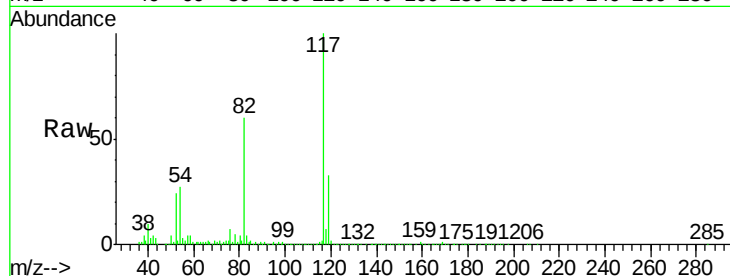




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW010757.D
Acq: 10 Jun 2019 20:44

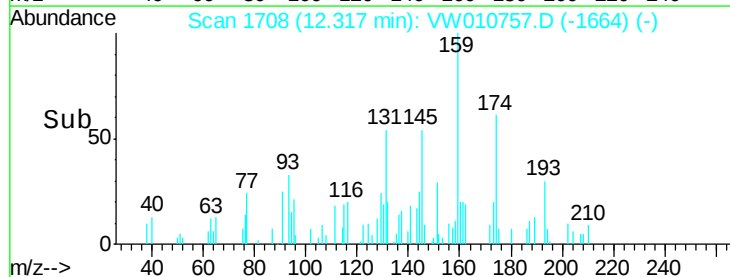
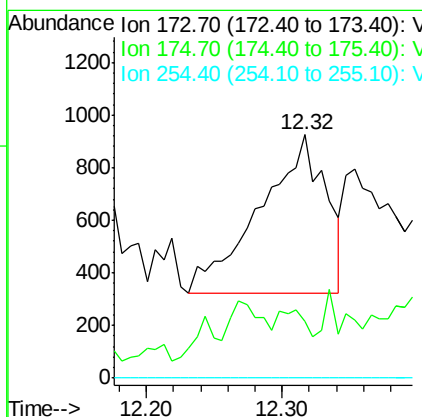
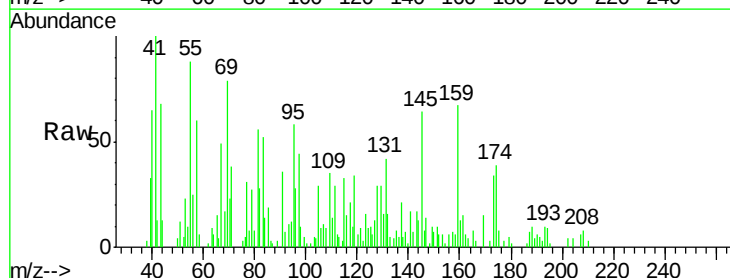
Instrument :
MSVOA_W
ClientSampleId :
SB-11 1.0-1.5 060719

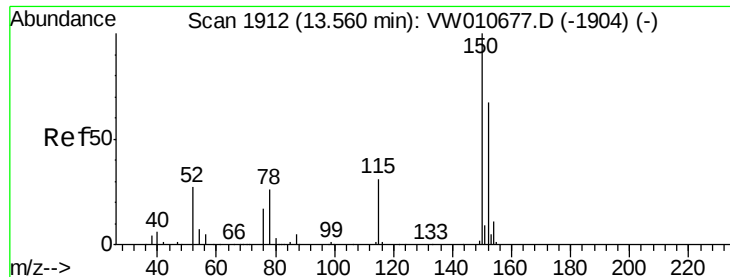
Tgt Ion:117 Resp: 262463
Ion Ratio Lower Upper
117 100
82 60.3 47.0 70.4
119 32.3 25.1 37.7



#71
Bromoform
Concen: 2.196 ug/l
RT: 12.32 min Scan# 1708
Delta R.T. -0.03 min
Lab File: VW010757.D
Acq: 10 Jun 2019 20:44

Tgt Ion:173 Resp: 2029
Ion Ratio Lower Upper
173 100
175 15.7 24.3 72.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW010757.D

Acq: 10 Jun 2019 20:44

Instrument :

MSVOA_W

ClientSampleId :

SB-11 1.0-1.5 060719

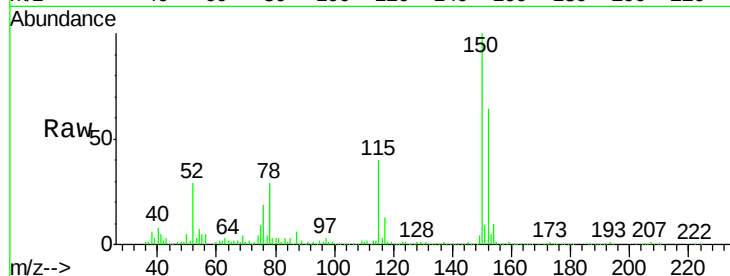
Tgt Ion:152 Resp: 118944

Ion Ratio Lower Upper

152 100

115 59.4 29.8 89.3

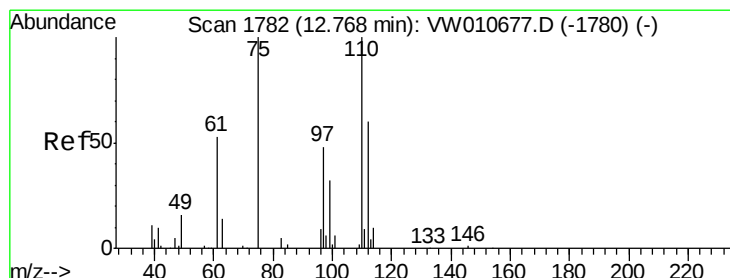
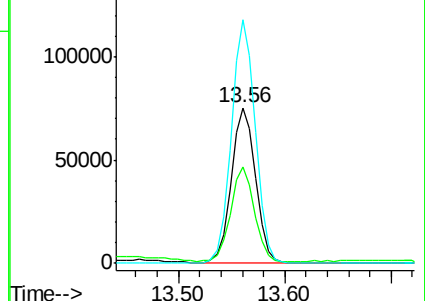
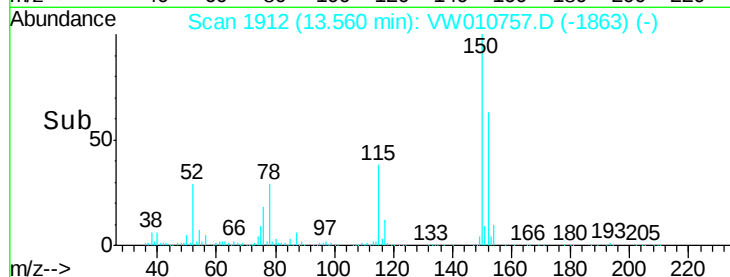
150 154.8 0.0 345.0



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



#76

1,2,3-Trichloropropane

Concen: 1.885 ug/l

RT: 12.88 min Scan# 1800

Delta R.T. 0.11 min

Lab File: VW010757.D

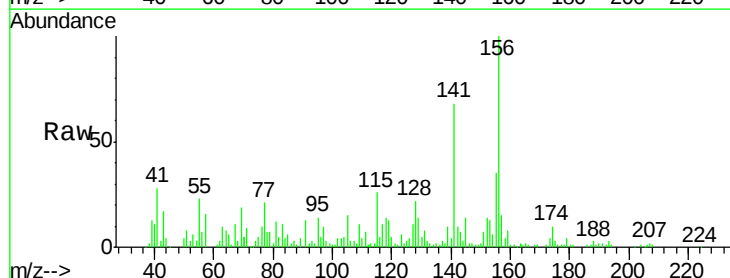
Acq: 10 Jun 2019 20:44

Tgt Ion: 75 Resp: 2354

Ion Ratio Lower Upper

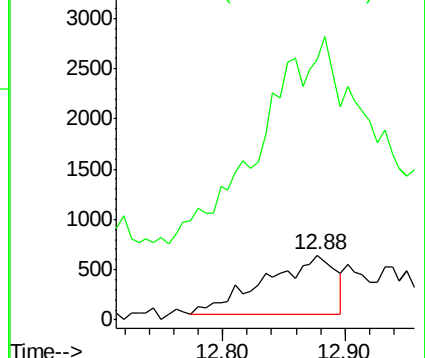
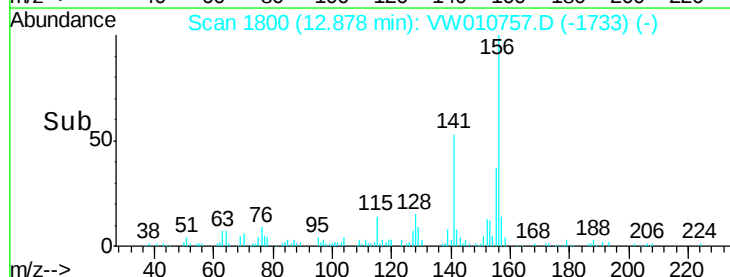
75 100

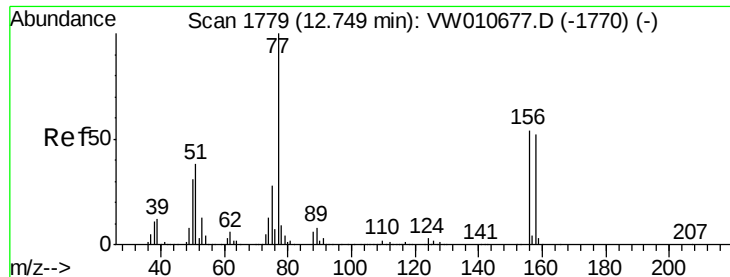
77 234.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

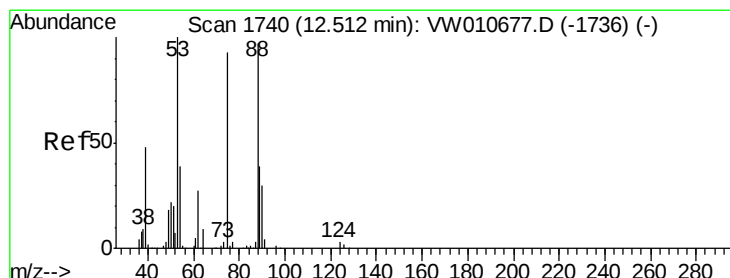
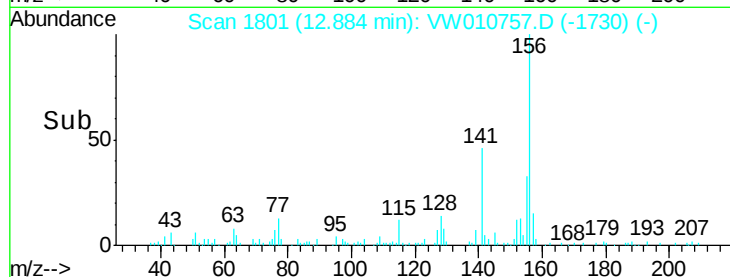
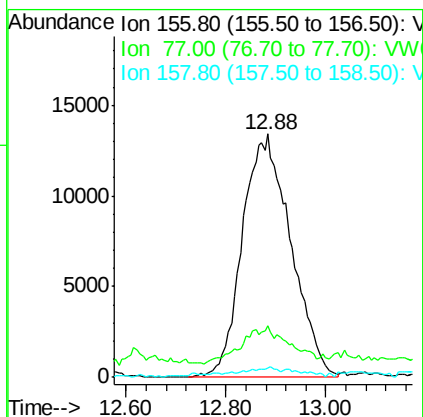
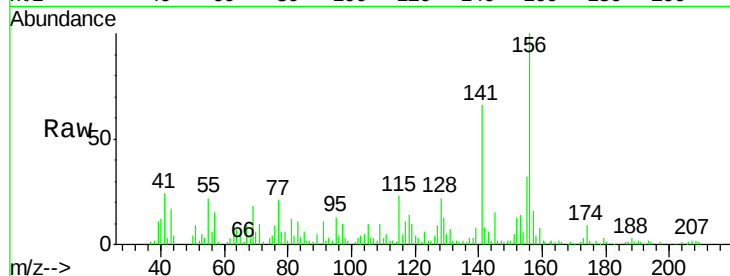




#77
Bromobenzene
Concen: 46.191 ug/l
RT: 12.88 min Scan# 1801
Delta R.T. 0.13 min
Lab File: VW010757.D
Acq: 10 Jun 2019 20:44

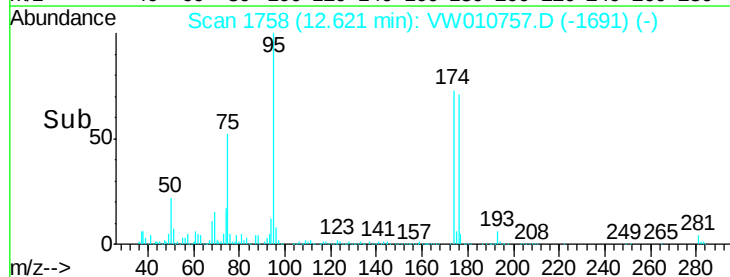
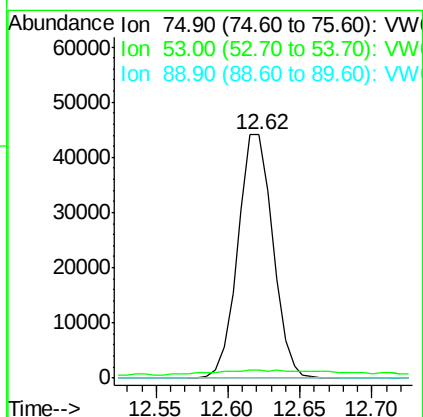
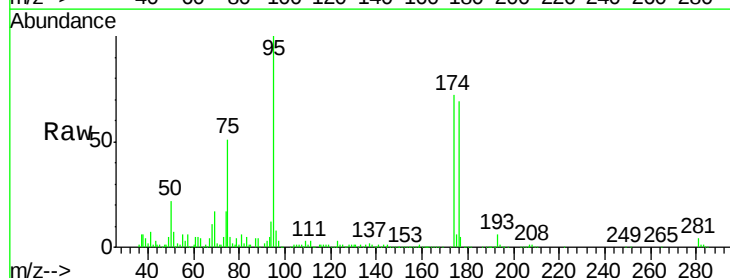
Instrument :
MSVOA_W
ClientSampleId :
SB-11 1.0-1.5 060719

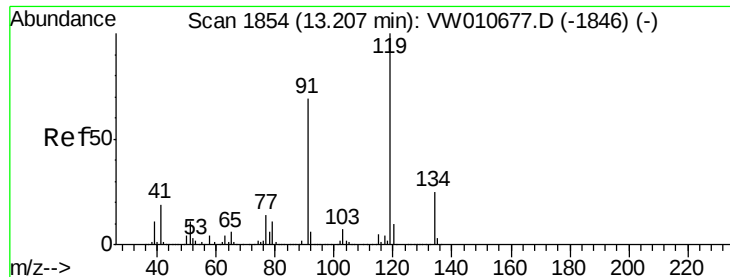
Tgt Ion:156 Resp: 90122
Ion Ratio Lower Upper
156 100
77 0.0 106.5 319.4#
158 1.2 48.3 144.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 136.177 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW010757.D
Acq: 10 Jun 2019 20:44

Tgt Ion: 75 Resp: 74008
Ion Ratio Lower Upper
75 100
53 2.8 90.1 135.1#
89 0.1 34.6 52.0#

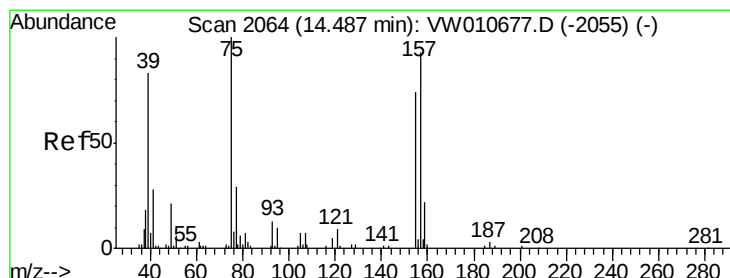
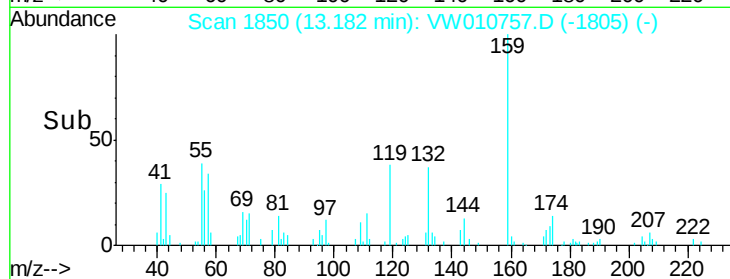
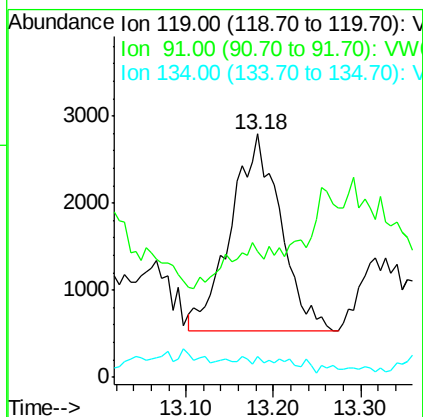
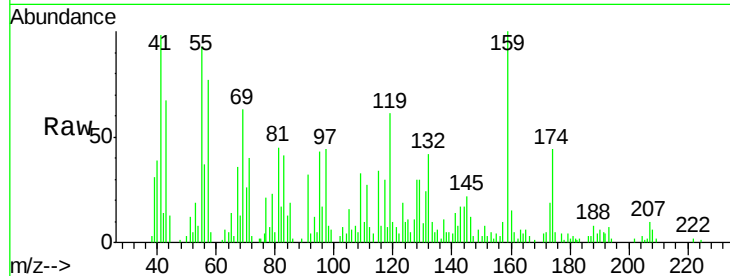




#83
tert-Butylbenzene
Concen: 1.445 ug/l
RT: 13.18 min Scan# 1850
Delta R.T. -0.02 min
Lab File: VW010757.D
Acq: 10 Jun 2019 20:44

Instrument :
MSVOA_W
ClientSampleId :
SB-11 1.0-1.5 060719

Tgt Ion: 119 Resp: 8975
Ion Ratio Lower Upper
119 100
91 15.6 35.1 105.3#
134 0.0 13.6 40.7#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.225 ug/l
RT: 14.68 min Scan# 2096
Delta R.T. 0.20 min
Lab File: VW010757.D
Acq: 10 Jun 2019 20:44

Tgt Ion: 75 Resp: 358
Ion Ratio Lower Upper
75 100
155 72.9 38.8 116.4
157 55.6 48.4 145.0

