

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122218\
 Data File : VW007755.D
 Acq On : 20 Dec 2018 18:50
 Operator : SY/AP
 Sample : J6392-15
 Misc : 6.27G/5ML/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 KY001SB105-121218-(18-20)

Quant Time: Dec 21 04:37:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	86326	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	142401	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	125601	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	62574	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	44467	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
35) Dibromofluoromethane	7.88	113	40832	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
50) Toluene-d8	10.32	98	143764	43.90	ug/l	0.00
Spiked Amount			Recovery	=	87.80%	
62) 4-Bromofluorobenzene	12.62	95	58700	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	

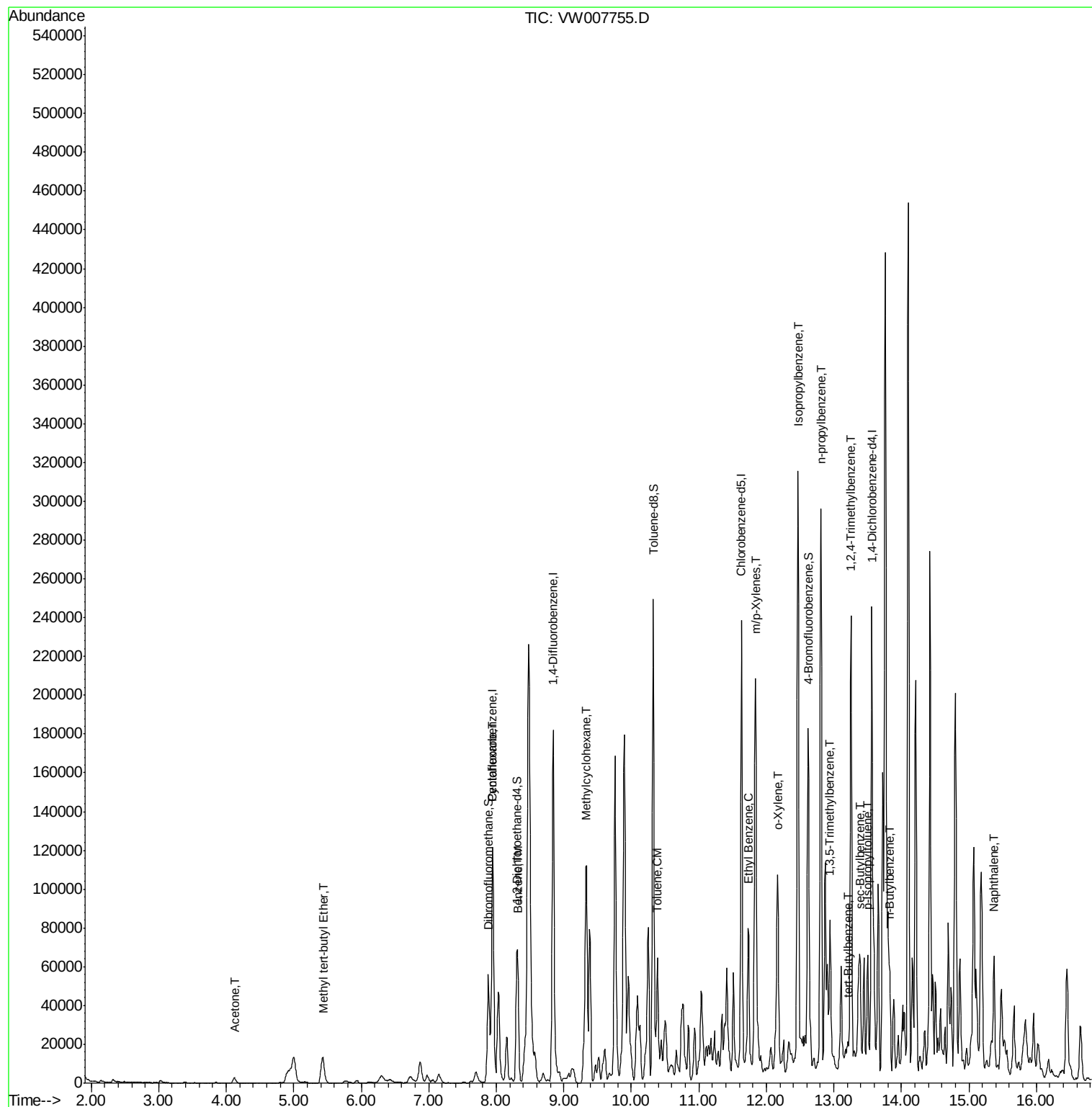
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.12	43	5658	31.934	ug/l #	85
19) Methyl tert-butyl Ether	5.43	73	10355	8.469	ug/l #	1
31) Cyclohexane	7.95	56	6154	4.369	ug/l #	74
39) Methylcyclohexane	9.34	83	29894	17.504	ug/l	89
40) Benzene	8.32	78	27924	7.614	ug/l	97
52) Toluene	10.39	92	27046	10.991	ug/l	98
67) Ethyl Benzene	11.73	91	42608	9.134	ug/l	99
68) m/p-Xylenes	11.84	106	61797	34.149	ug/l	99
69) o-Xylene	12.17	106	27043	15.942	ug/l	99
73) Isopropylbenzene	12.47	105	199859	42.254	ug/l	100
78) n-propylbenzene	12.81	91	231346	42.018	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	31931	7.826	ug/l	100
83) tert-Butylbenzene	13.21	119	5214	1.457	ug/l	91
84) 1,2,4-Trimethylbenzene	13.26	105	130156	31.616	ug/l	99
85) sec-Butylbenzene	13.39	105	31293	6.343	ug/l #	61
86) p-Isopropyltoluene	13.50	119	28821	6.424	ug/l	99
89) n-Butylbenzene	13.83	91	33615	8.172	ug/l #	76
95) Naphthalene	15.37	128	48112	19.455	ug/l	96

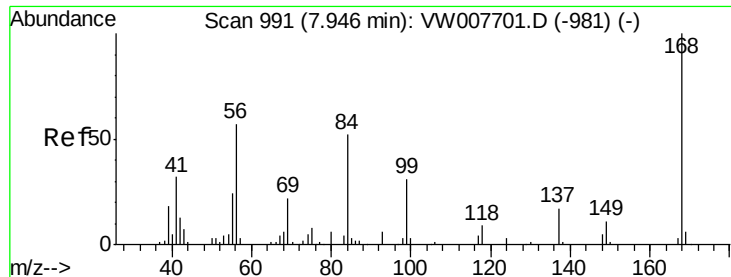
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007755.D

Acq: 20 Dec 2018 18:50

Instrument :

MSVOA_W

ClientSampleId :

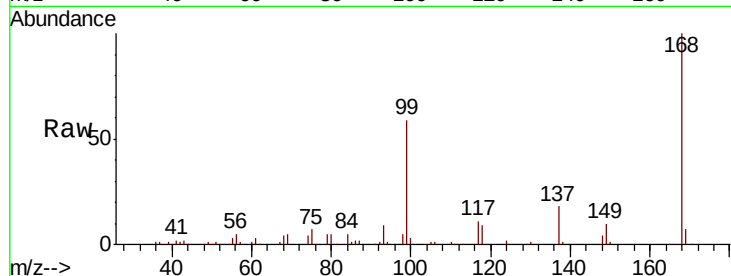
KY001SB105-121218-(18-20)

Tgt Ion: 168 Resp: 86326

Ion Ratio Lower Upper

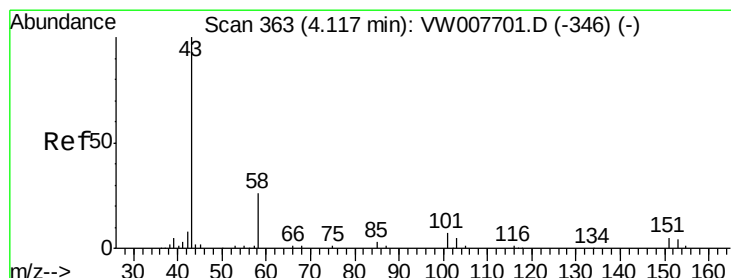
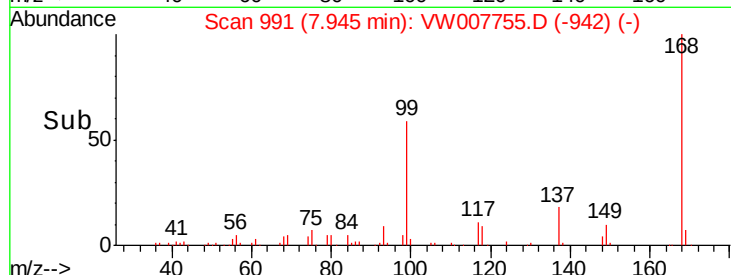
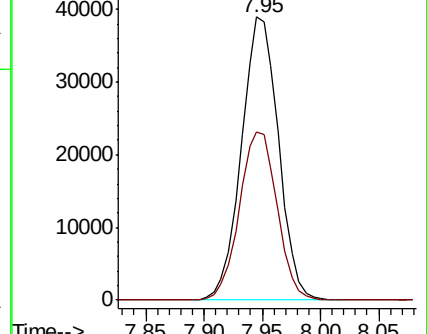
168 100

99 59.5 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 31.934 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007755.D

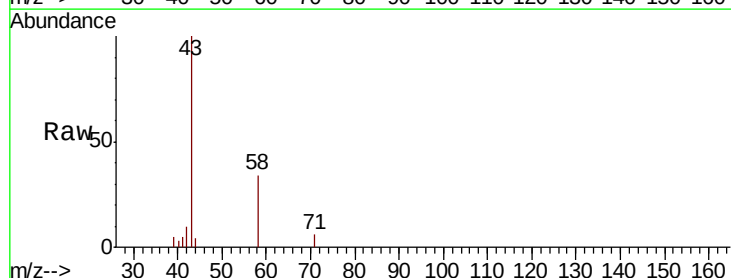
Acq: 20 Dec 2018 18:50

Tgt Ion: 43 Resp: 5658

Ion Ratio Lower Upper

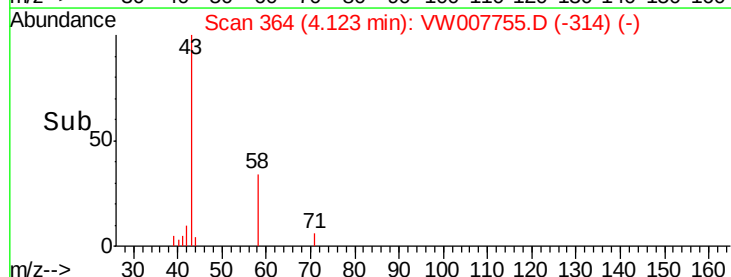
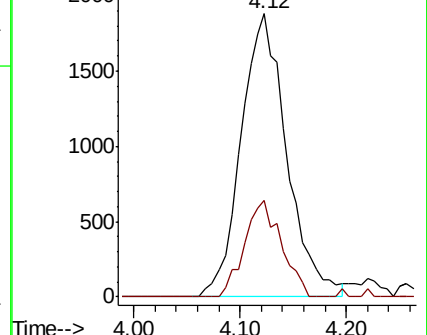
43 100

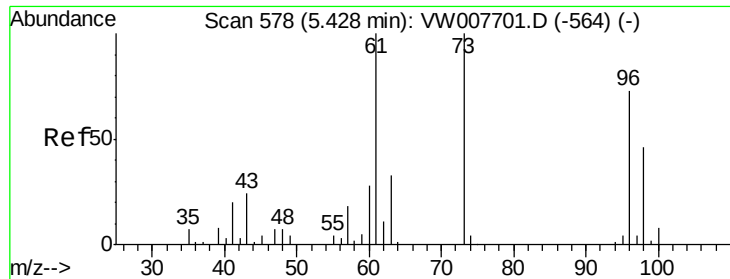
58 34.3 21.2 31.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#19

Methyl tert-butyl Ether

Concen: 8.469 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.01 min

Lab File: VW007755.D

Acq: 20 Dec 2018 18:50

Instrument :

MSVOA_W

ClientSampleId :

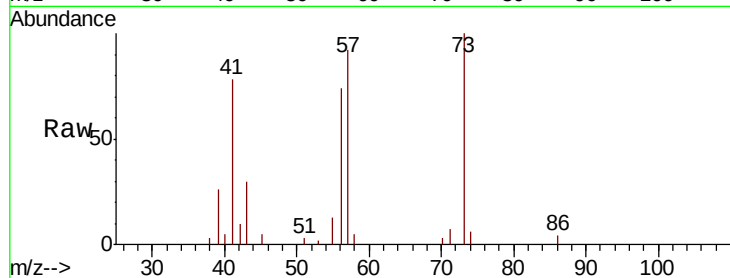
KY001SB105-121218-(18-20)

Tgt Ion: 73 Resp: 10355

Ion Ratio Lower Upper

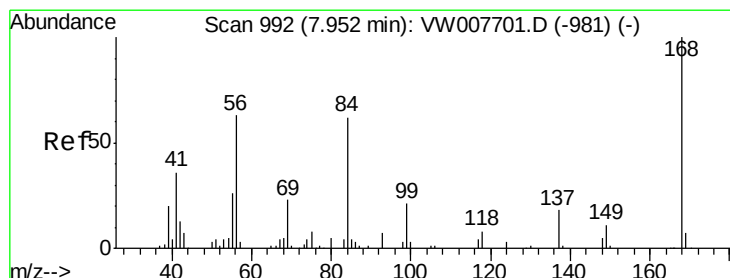
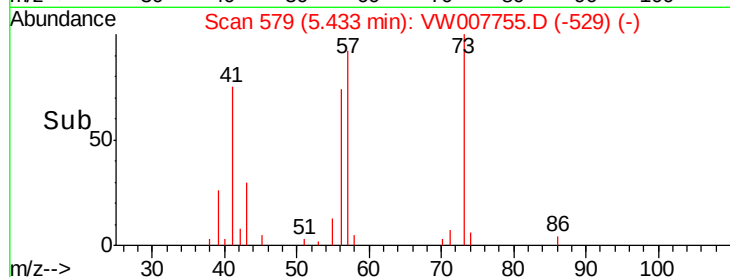
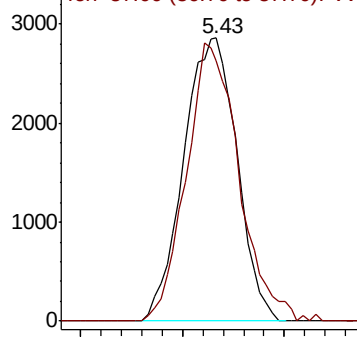
73 100

57 91.9 14.7 22.1#



Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 57.00 (56.70 to 57.70): VW



#31

Cyclohexane

Concen: 4.369 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007755.D

Acq: 20 Dec 2018 18:50

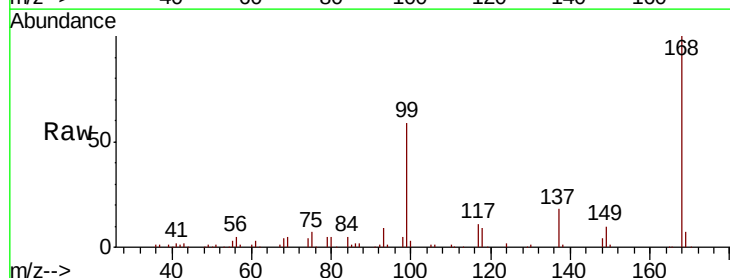
Tgt Ion: 56 Resp: 6154

Ion Ratio Lower Upper

56 100

69 91.5 29.7 44.5#

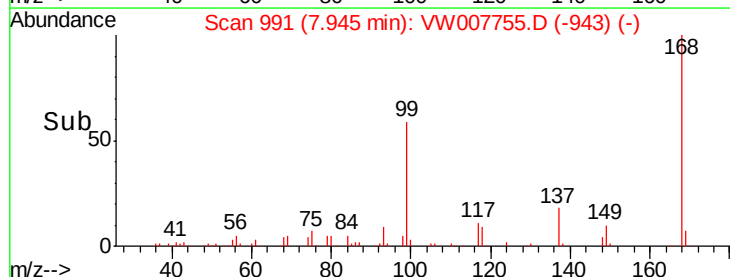
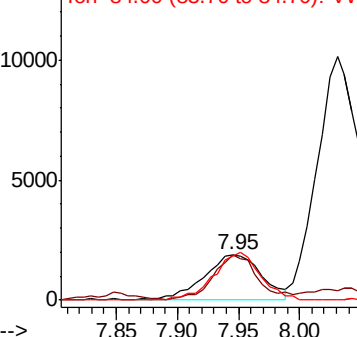
84 96.7 78.9 118.3

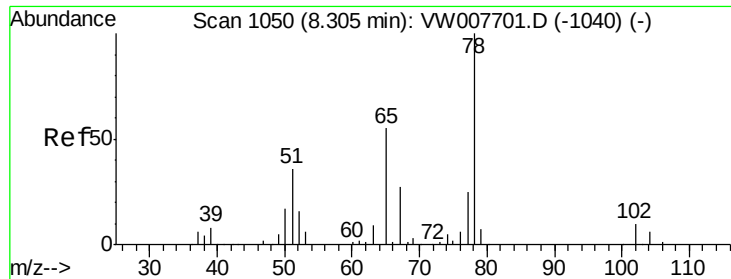


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

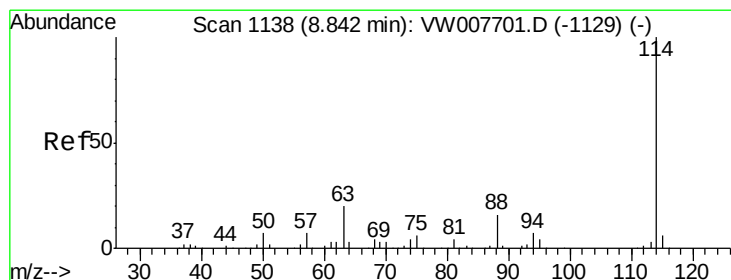
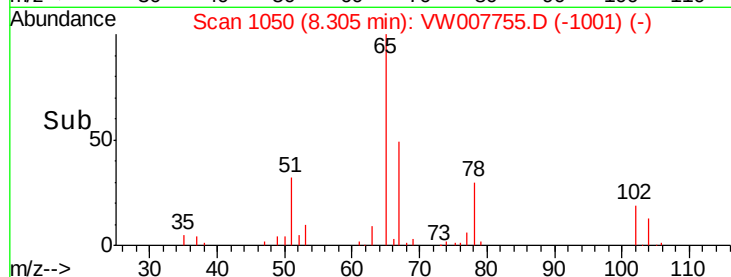
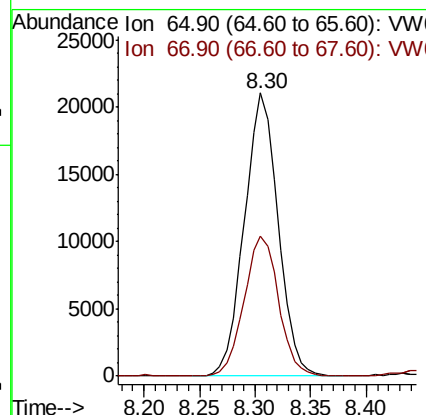
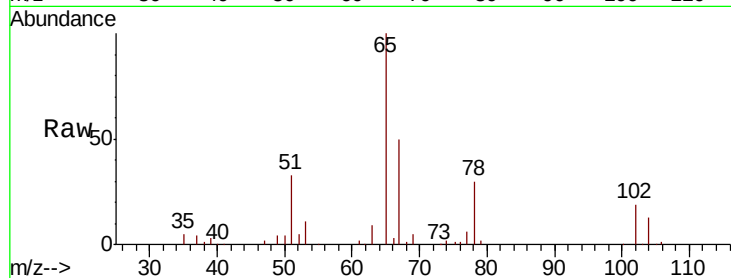




#33
 1,2-Dichloroethane-d4
 Concen: 46.997 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW007755.D
 Acq: 20 Dec 2018 18:50

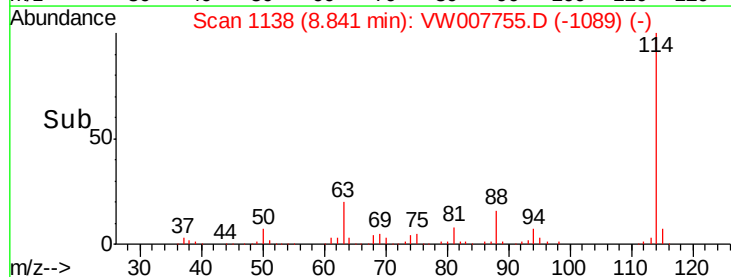
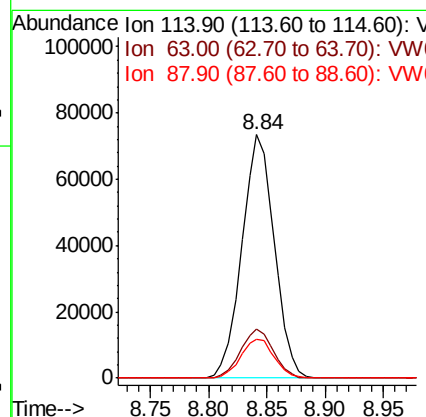
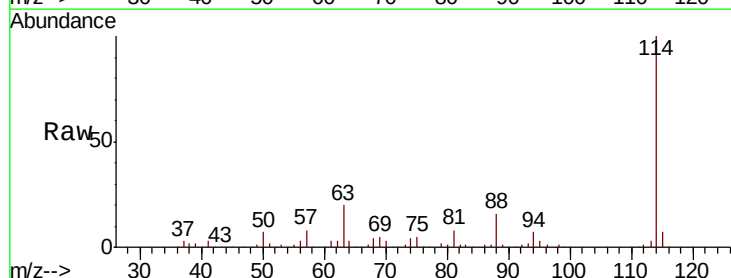
Instrument :
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 KY001SB105-121218-(18-20)

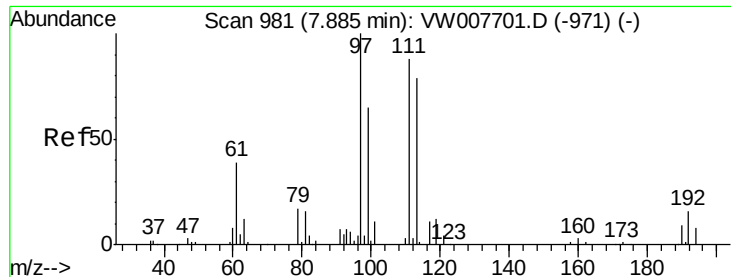
Tgt Ion: 65 Resp: 44467
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007755.D
 Acq: 20 Dec 2018 18:50

Tgt Ion: 114 Resp: 142401
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.0
 88 15.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.003 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007755.D

Acq: 20 Dec 2018 18:50

Instrument :

MSVOA_W

ClientSampleId :

KY001SB105-121218-(18-20)

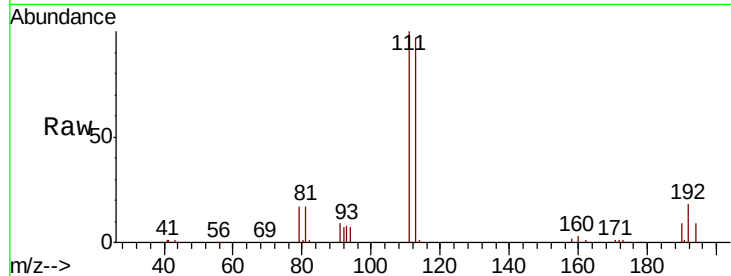
Tgt Ion:113 Resp: 40832

Ion Ratio Lower Upper

113 100

111 101.3 82.6 124.0

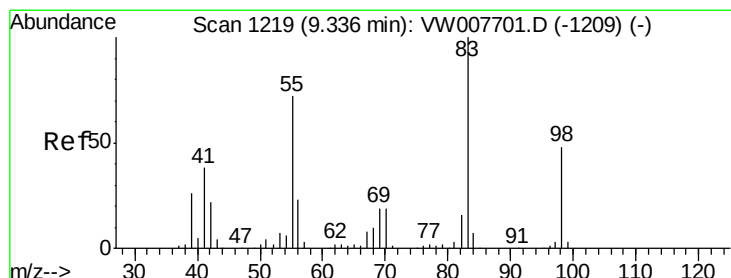
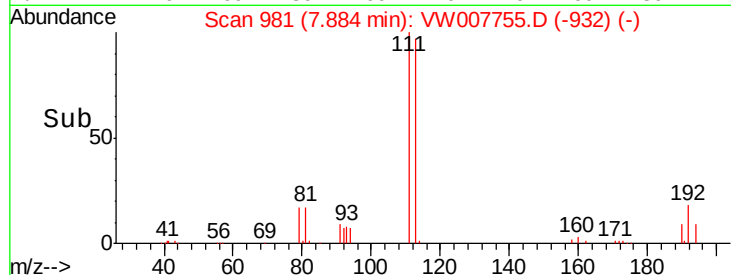
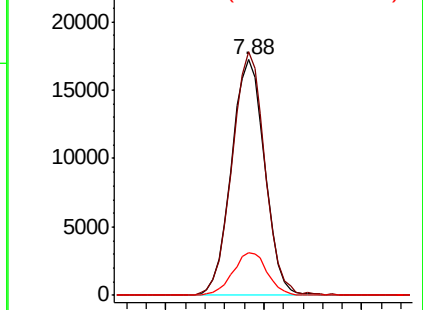
192 18.5 15.5 23.3



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



#39

Methylcyclohexane

Concen: 17.504 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW007755.D

Acq: 20 Dec 2018 18:50

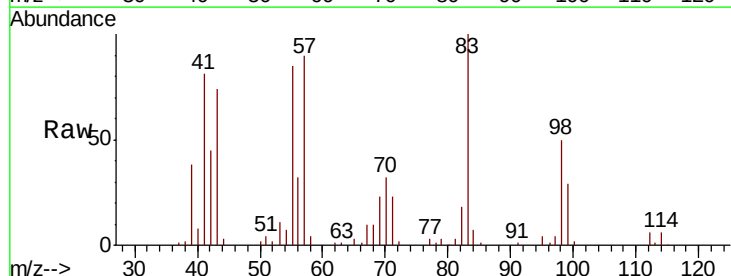
Tgt Ion: 83 Resp: 29894

Ion Ratio Lower Upper

83 100

55 84.8 57.2 85.8

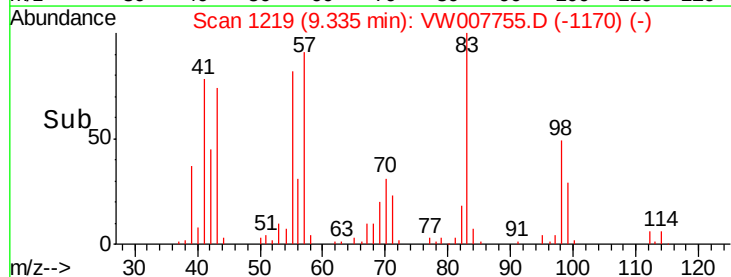
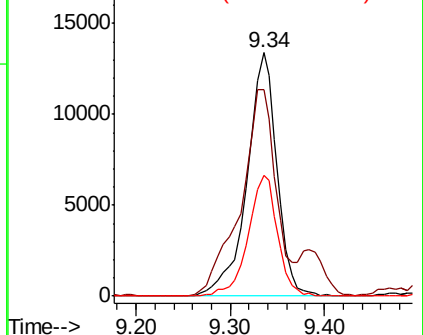
98 49.8 38.6 58.0

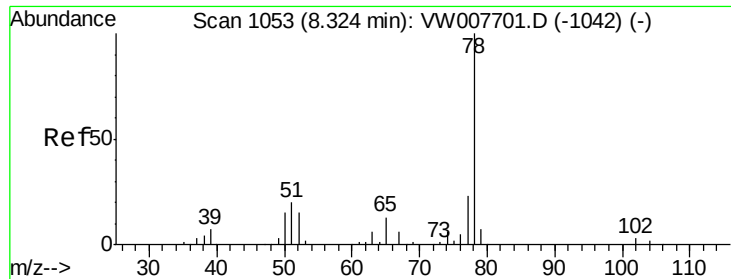


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

Benzene

Concen: 7.614 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW007755.D

Acq: 20 Dec 2018 18:50

Instrument :

MSVOA_W

ClientSampleId :

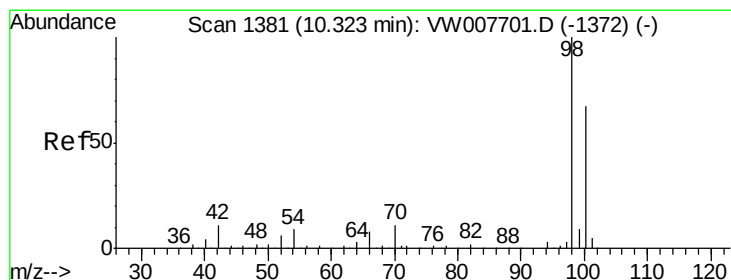
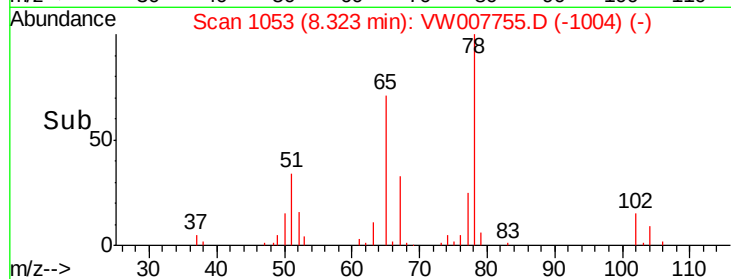
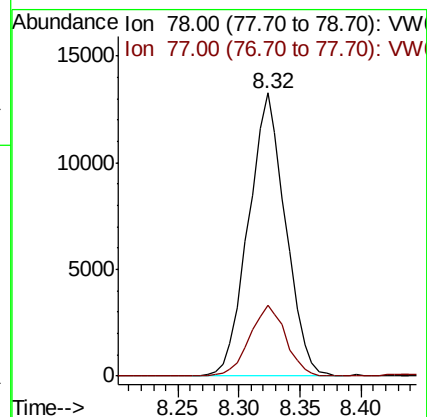
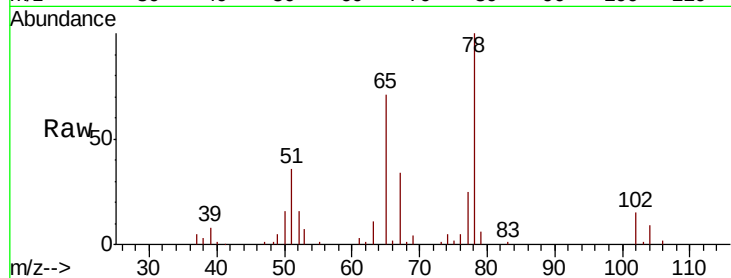
KY001SB105-121218-(18-20)

Tgt Ion: 78 Resp: 27924

Ion Ratio Lower Upper

78 100

77 24.9 18.7 28.1



#50

Toluene-d8

Concen: 43.898 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007755.D

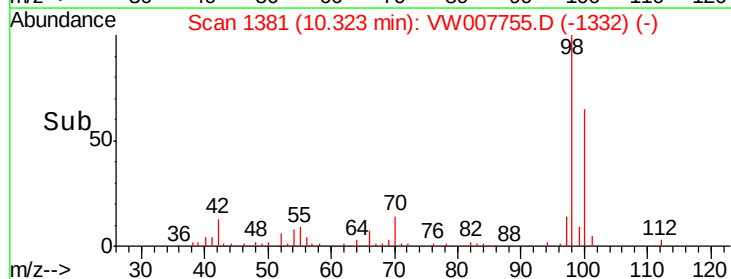
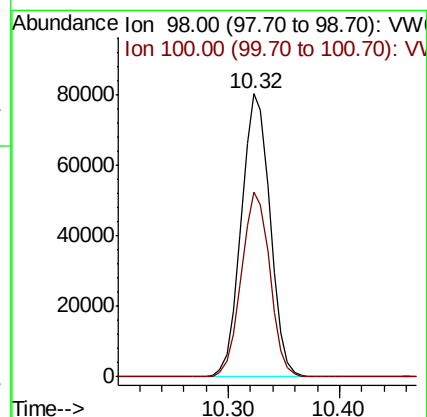
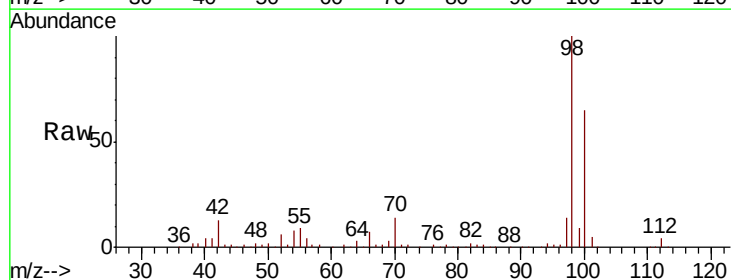
Acq: 20 Dec 2018 18:50

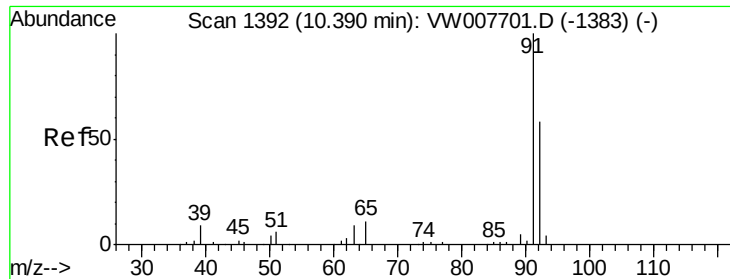
Tgt Ion: 98 Resp: 143764

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2





#52

Toluene

Concen: 10.991 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007755.D

Acq: 20 Dec 2018 18:50

Instrument :

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ClientSampleId :

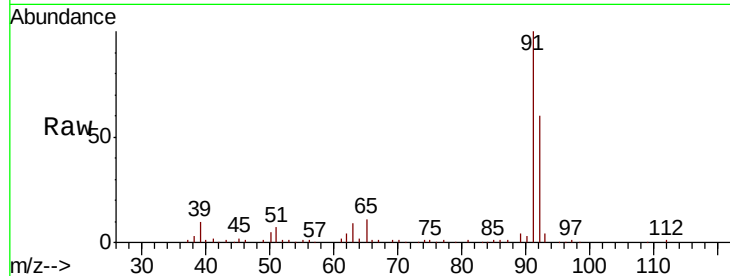
KY001SB105-121218-(18-20)

Tgt Ion: 92 Resp: 27046

Ion Ratio Lower Upper

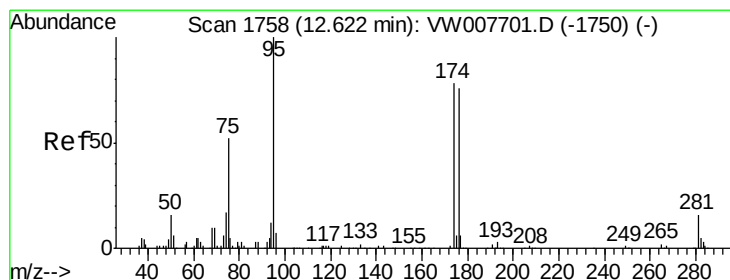
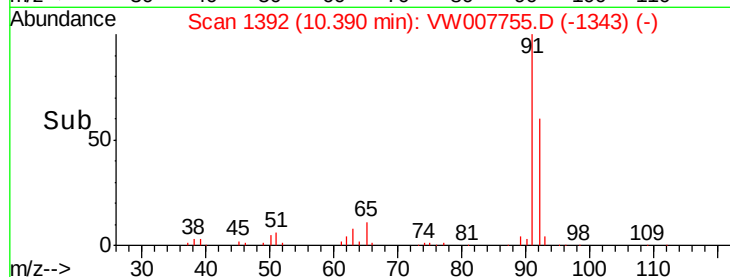
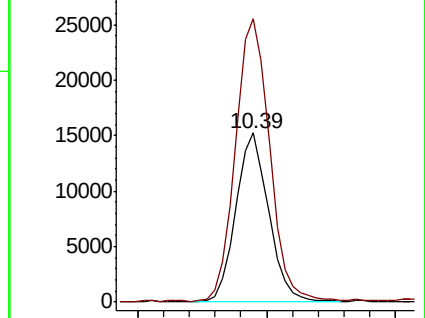
92 100

91 173.3 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#62

4-Bromofluorobenzene

Concen: 46.396 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007755.D

Acq: 20 Dec 2018 18:50

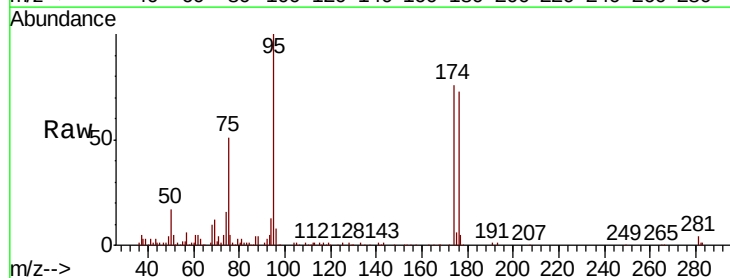
Tgt Ion: 95 Resp: 58700

Ion Ratio Lower Upper

95 100

174 75.7 0.0 152.2

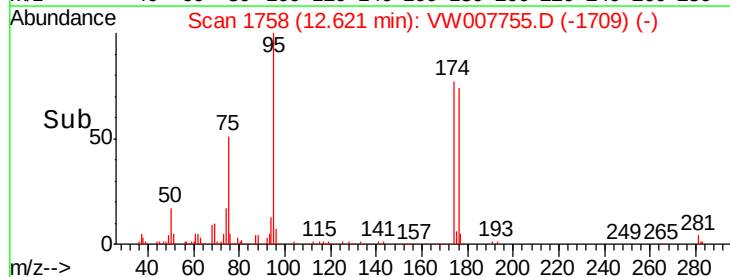
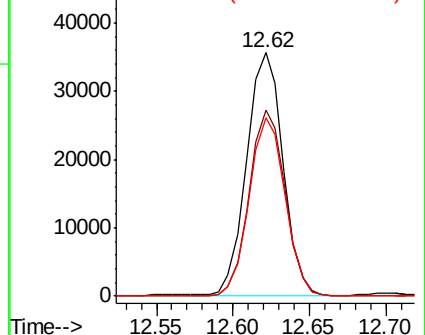
176 72.7 0.0 146.8

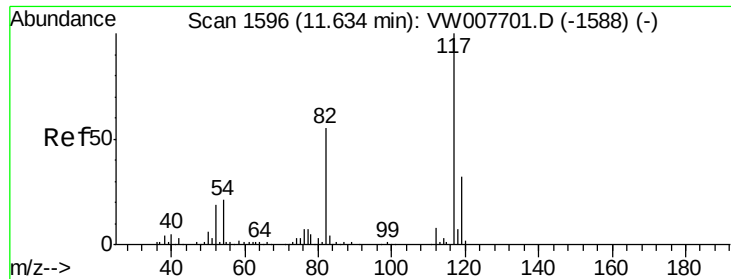


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

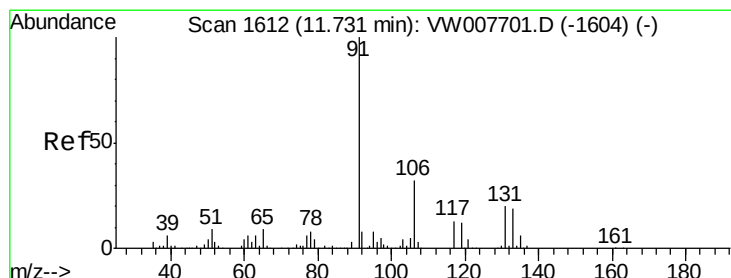
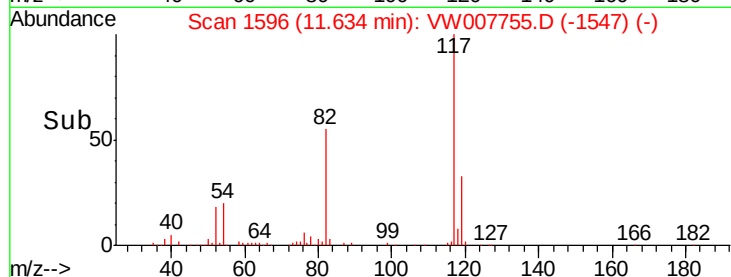
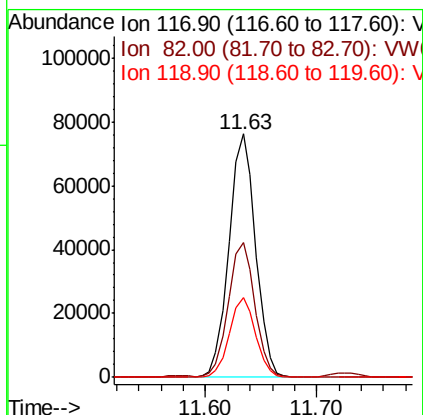
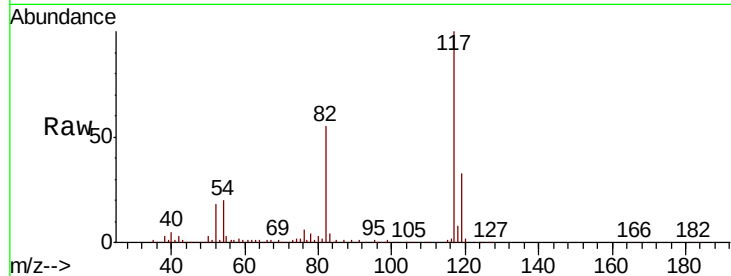




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007755.D
Acq: 20 Dec 2018 18:50

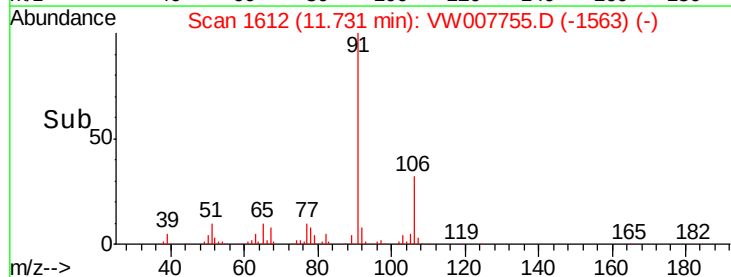
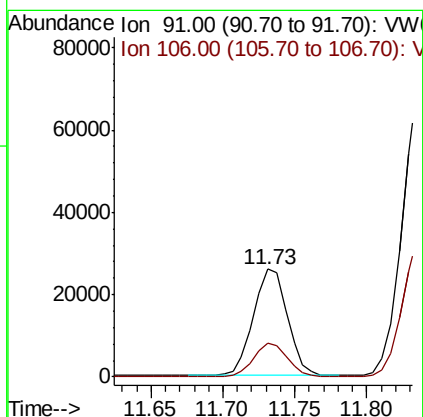
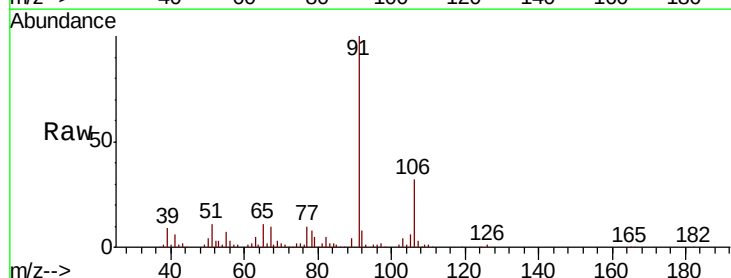
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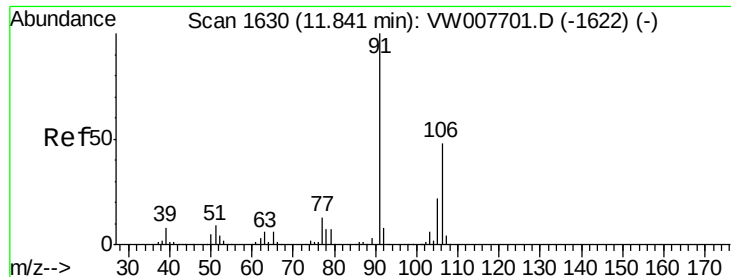
Tgt Ion: 117 Resp: 125601
Ion Ratio Lower Upper
117 100
82 54.7 44.3 66.5
119 32.6 25.7 38.5



#67
Ethyl Benzene
Concen: 9.134 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW007755.D
Acq: 20 Dec 2018 18:50

Tgt Ion: 91 Resp: 42608
Ion Ratio Lower Upper
91 100
106 31.6 25.8 38.8

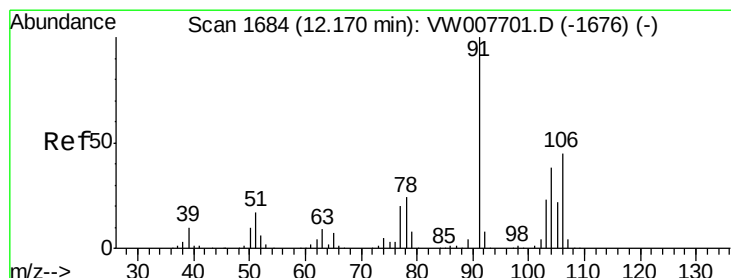
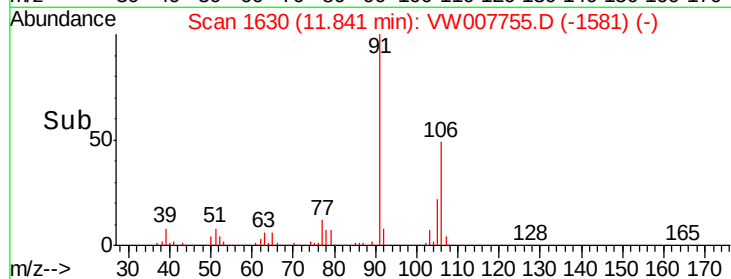
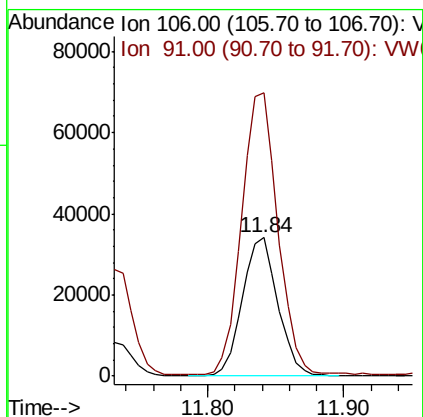
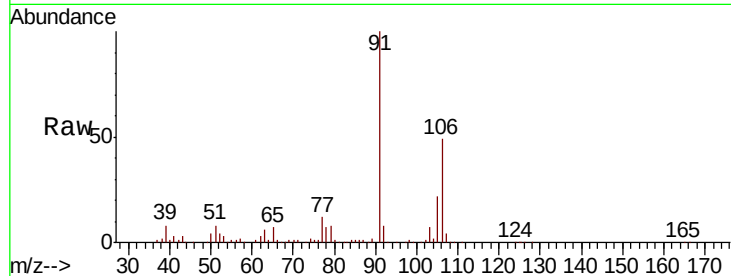




#68
m/p-Xylenes
Concen: 34.149 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007755.D
Acq: 20 Dec 2018 18:50

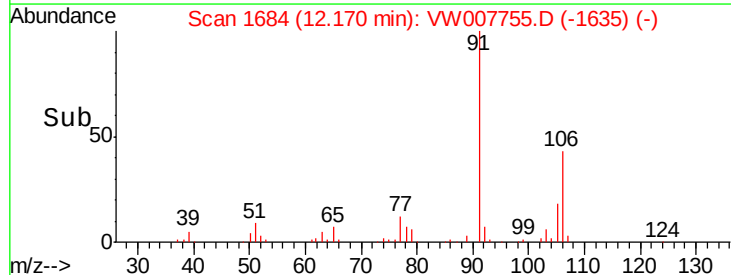
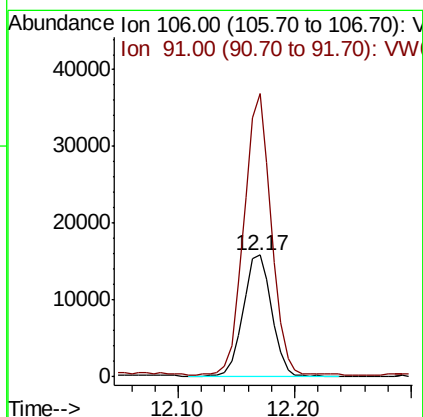
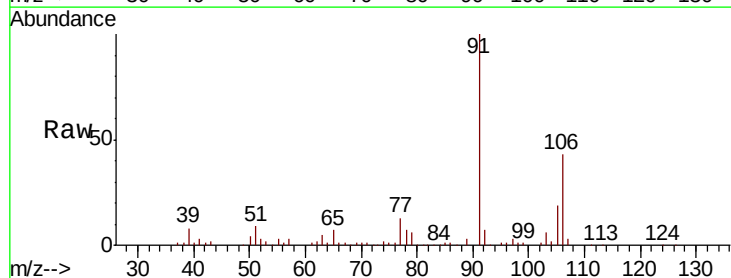
Instrument :
MSVOA_W
ClientSampleId :
KY001SB105-121218-(18-20)

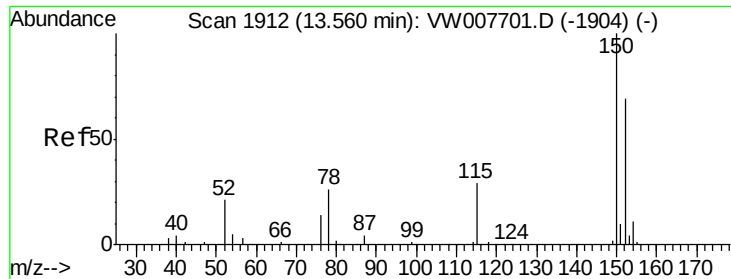
Tgt Ion:106 Resp: 61797
Ion Ratio Lower Upper
106 100
91 208.3 165.2 247.8



#69
o-Xylene
Concen: 15.942 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007755.D
Acq: 20 Dec 2018 18:50

Tgt Ion:106 Resp: 27043
Ion Ratio Lower Upper
106 100
91 222.4 110.5 331.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007755.D

Acq: 20 Dec 2018 18:50

Instrument :

MSVOA_W

ClientSampleId :

KY001SB105-121218-(18-20)

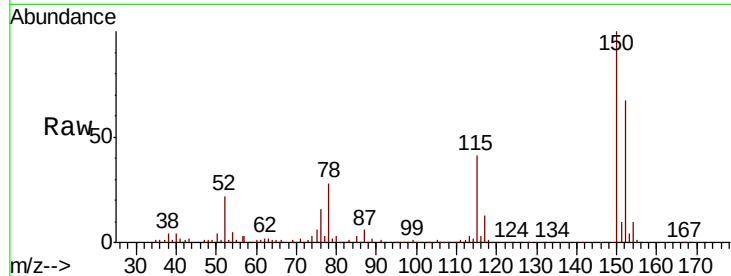
Tgt Ion:152 Resp: 62574

Ion Ratio Lower Upper

152 100

115 62.9 31.8 95.4

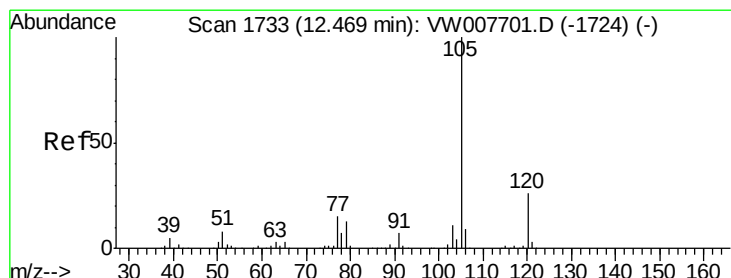
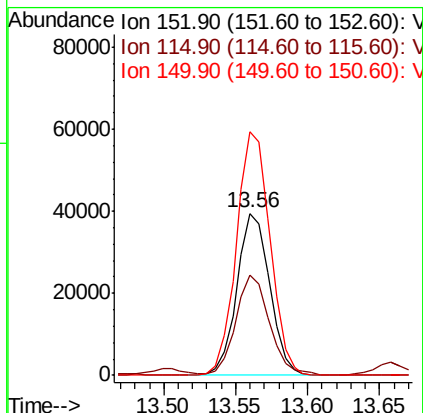
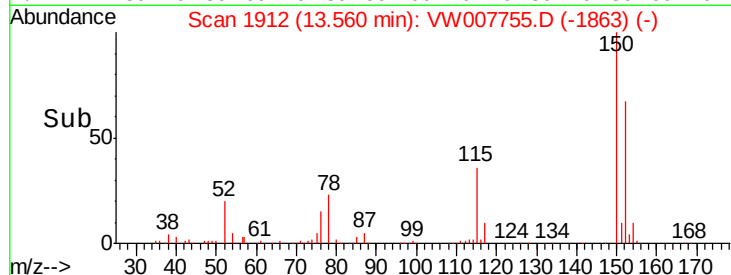
150 153.5 0.0 350.8



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



#73

Isopropylbenzene

Concen: 42.254 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007755.D

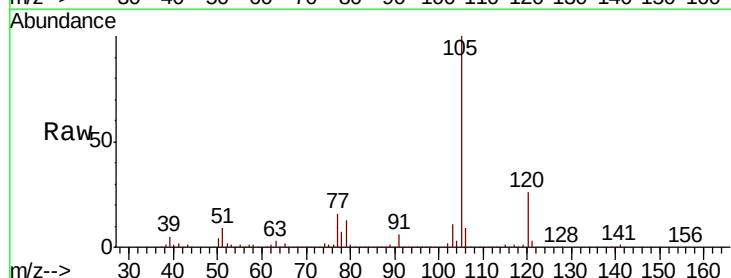
Acq: 20 Dec 2018 18:50

Tgt Ion:105 Resp: 199859

Ion Ratio Lower Upper

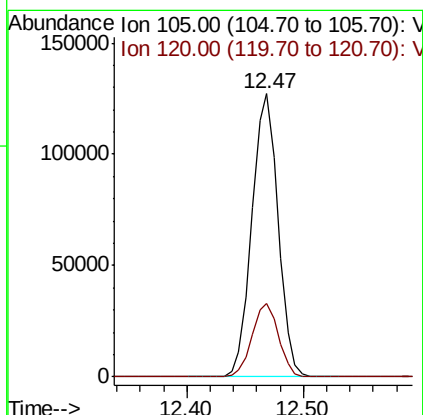
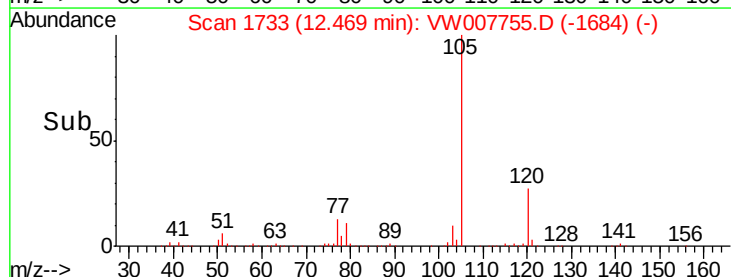
105 100

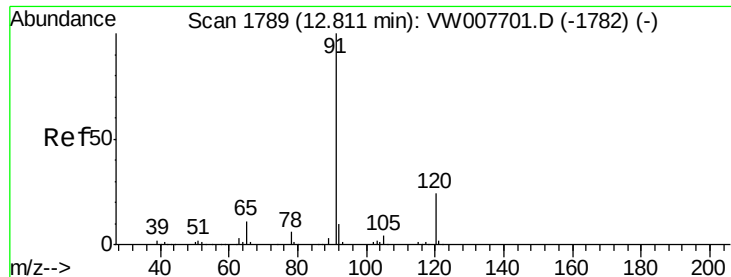
120 26.2 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

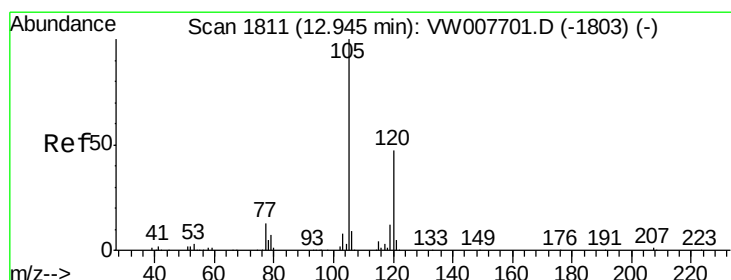
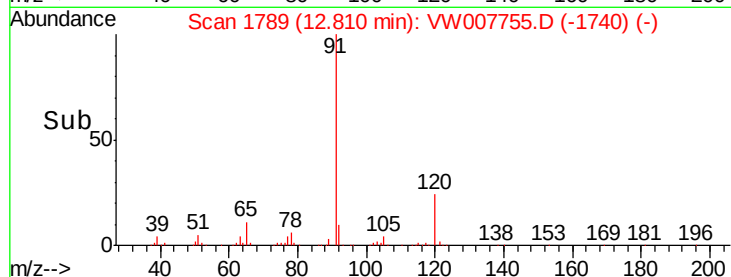
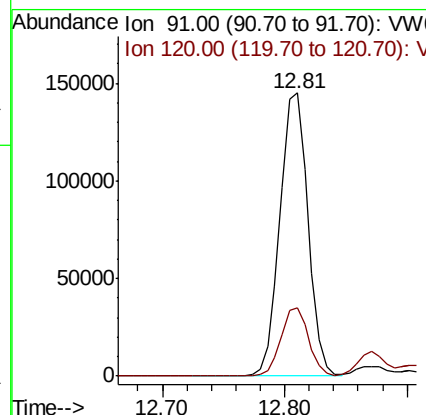
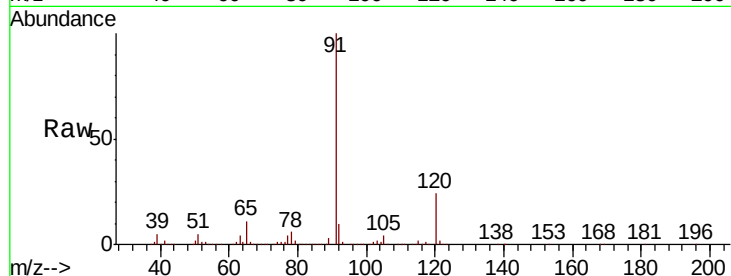




#78
n-propylbenzene
Concen: 42.018 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VW007755.D
Acq: 20 Dec 2018 18:50

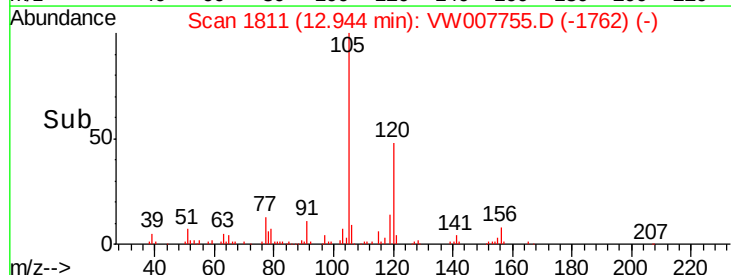
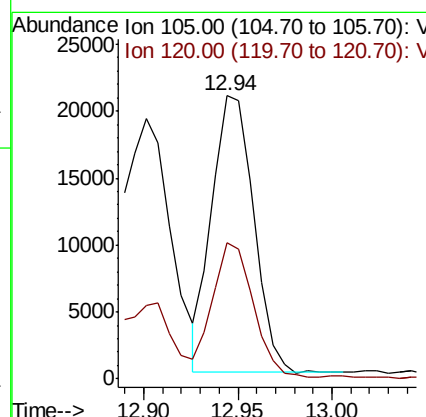
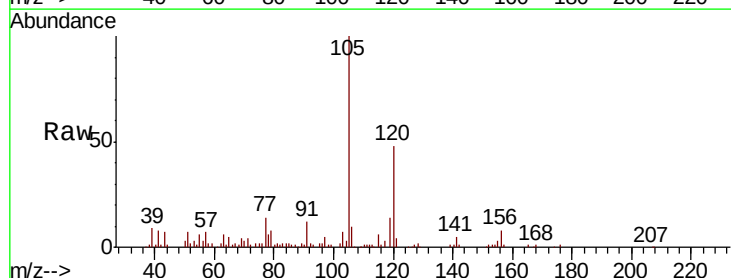
Instrument :
MSVOA_W
ClientSampleId :
KY001SB105-121218-(18-20)

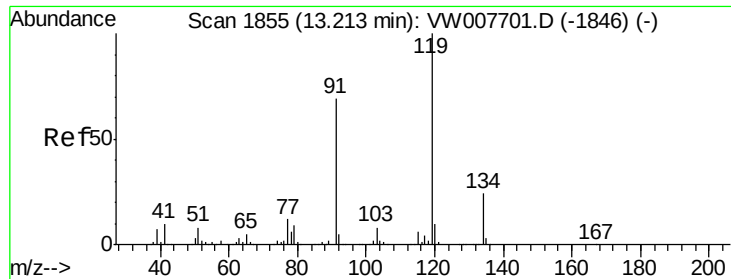
Tgt Ion: 91 Resp: 231346
Ion Ratio Lower Upper
91 100
120 23.6 11.9 35.7



#80
1,3,5-Trimethylbenzene
Concen: 7.826 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW007755.D
Acq: 20 Dec 2018 18:50

Tgt Ion:105 Resp: 31931
Ion Ratio Lower Upper
105 100
120 47.4 23.6 70.8

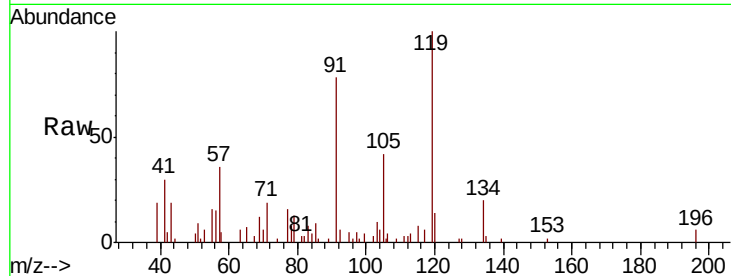




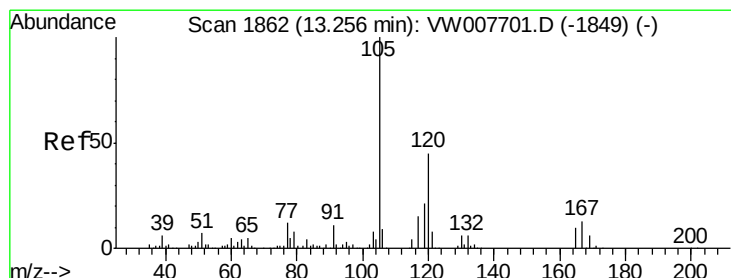
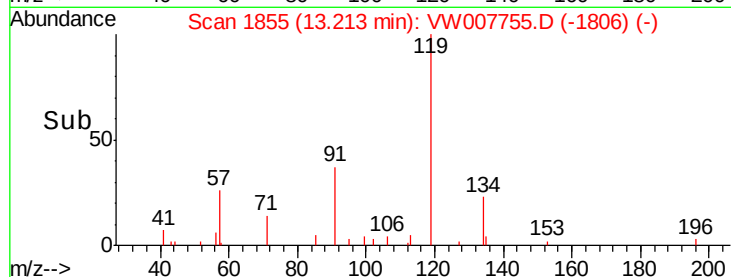
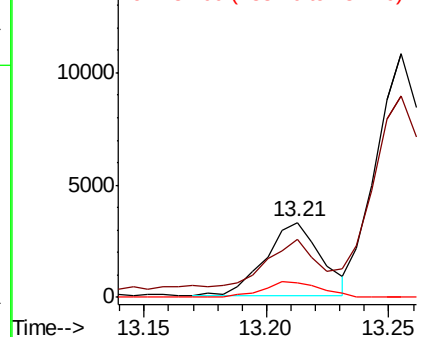
#83
 tert-Butylbenzene
 Concen: 1.457 ug/l
 RT: 13.21 min Scan# 1855
 Delta R.T. -0.00 min
 Lab File: VW007755.D
 Acq: 20 Dec 2018 18:50

Instrument :
 MSVOA_W
 ClientSampleId :
 KY001SB105-121218-(18-20)

Tgt Ion:119 Resp: 5214
 Ion Ratio Lower Upper
 119 100
 91 76.1 34.2 102.5
 134 21.8 12.8 38.4

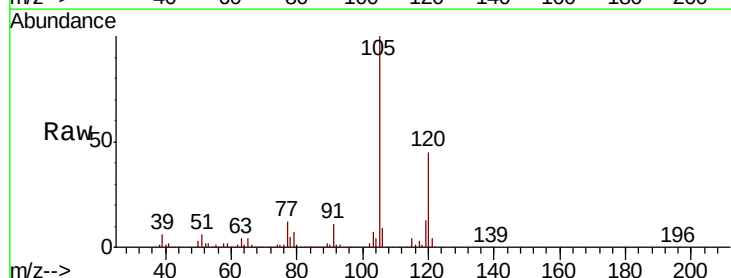


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

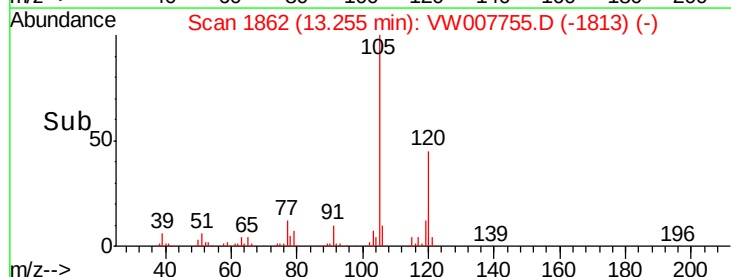
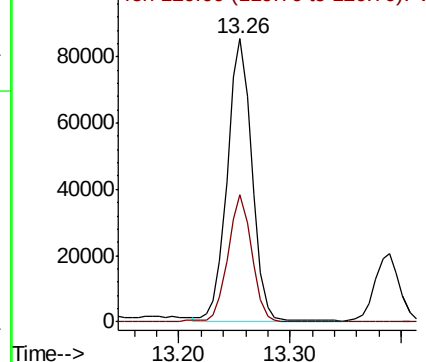


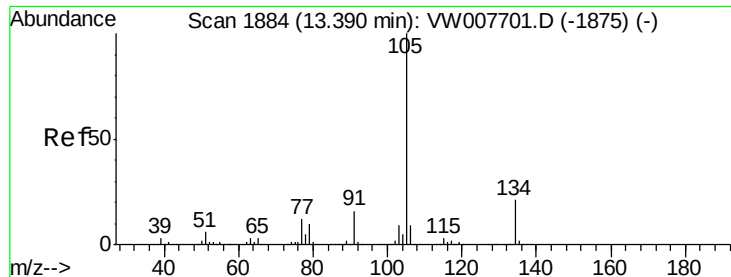
#84
 1,2,4-Trimethylbenzene
 Concen: 31.616 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW007755.D
 Acq: 20 Dec 2018 18:50

Tgt Ion:105 Resp: 130156
 Ion Ratio Lower Upper
 105 100
 120 43.4 22.0 66.0



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

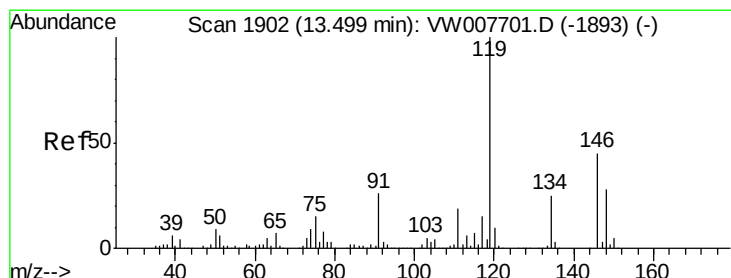
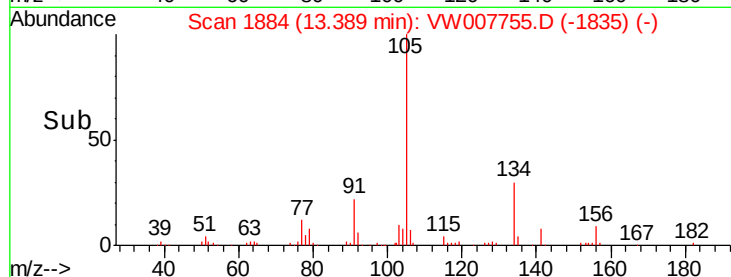
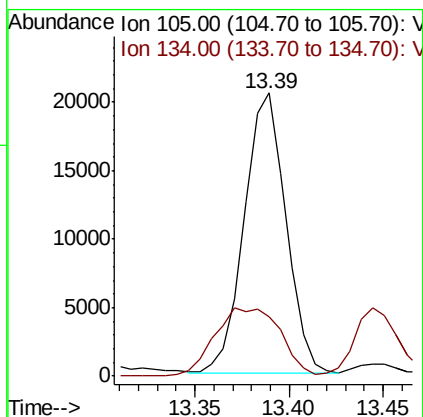
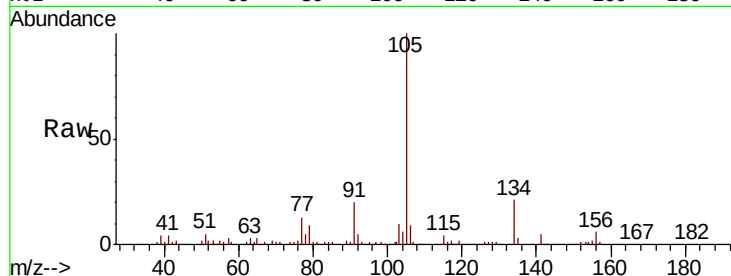




#85
 sec-Butylbenzene
 Concen: 6.343 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW007755.D
 Acq: 20 Dec 2018 18:50

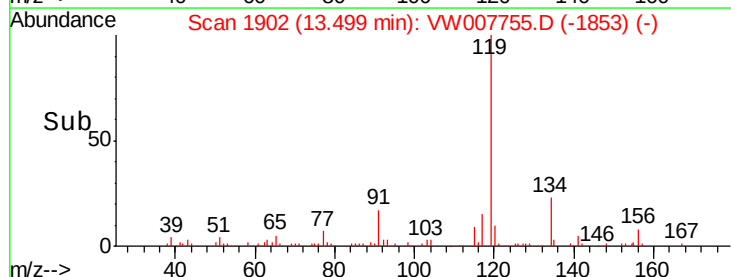
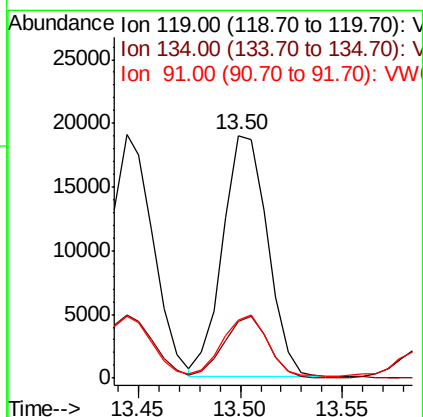
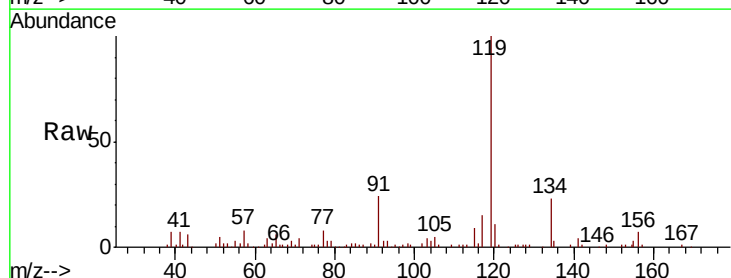
Instrument :
 MSVOA_W
 ClientSampleId :
 KY001SB105-121218-(18-20)

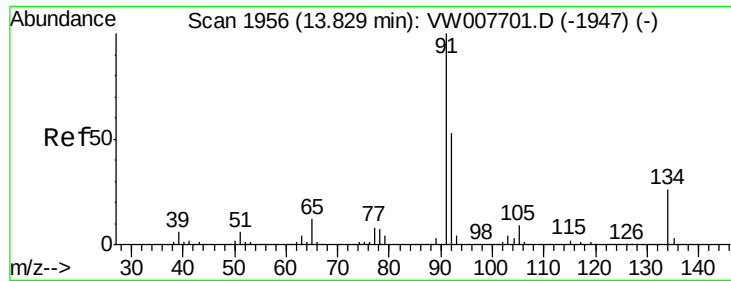
Tgt Ion:105 Resp: 31293
 Ion Ratio Lower Upper
 105 100
 134 38.2 10.2 30.4#



#86
 p-Isopropyltoluene
 Concen: 6.424 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW007755.D
 Acq: 20 Dec 2018 18:50

Tgt Ion:119 Resp: 28821
 Ion Ratio Lower Upper
 119 100
 134 25.3 13.0 39.0
 91 25.1 12.8 38.4

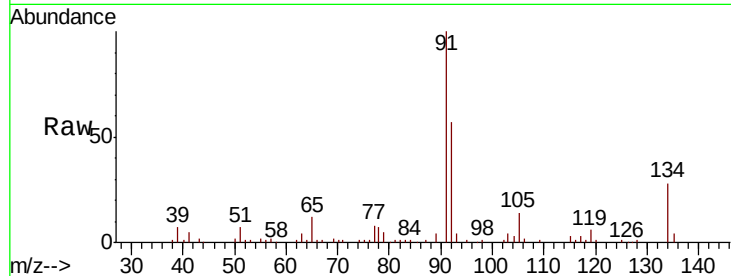




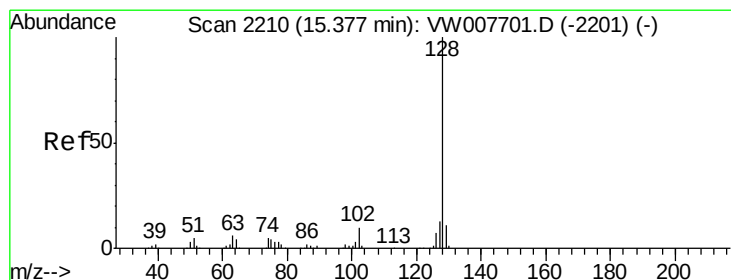
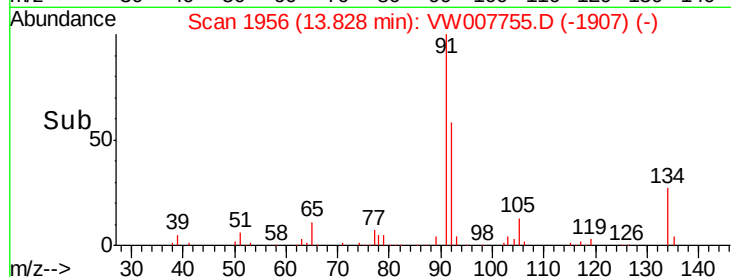
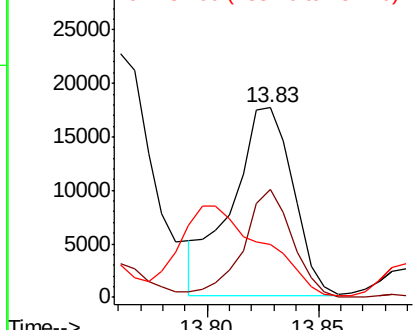
#89
n-Butylbenzene
Concen: 8.172 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW007755.D
Acq: 20 Dec 2018 18:50

Instrument :
MSVOA_W
ClientSampleId :
KY001SB105-121218-(18-20)

Tgt Ion: 91 Resp: 33615
Ion Ratio Lower Upper
91 100
92 46.1 26.4 79.2
134 0.0 13.7 41.0#

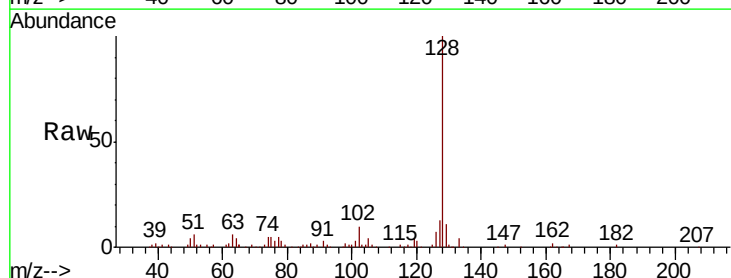


Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW
Ion 134.00 (133.70 to 134.70): V



#95
Naphthalene
Concen: 19.455 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.01 min
Lab File: VW007755.D
Acq: 20 Dec 2018 18:50

Tgt Ion: 128 Resp: 48112
Ion Ratio Lower Upper
128 100
127 14.6 10.7 16.1
129 12.6 8.8 13.2



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

