

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080819\
 Data File : VW011760.D
 Acq On : 07 Aug 2019 19:05
 Operator : SY/VA
 Sample : K4092-03
 Misc : 4.98G/5ML/MSVOA_W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-080719-B

Quant Time: Aug 08 08:42:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	190298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	321606	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	243843	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	78309	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	133304	61.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	122.00%	
35) Dibromofluoromethane	7.88	113	101553	56.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.56%	
50) Toluene-d8	10.32	98	380846	51.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.10%	
62) 4-Bromofluorobenzene	12.62	95	104852	39.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	79.62%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	1332	1.187	ug/l	71
11) Tert butyl alcohol	5.20	59	139	Below Cal	#	72
16) Acetone	4.14	43	14514	20.881	ug/l	98
20) Methylene Chloride	4.91	84	22149	9.239	ug/l	93
25) 2-Butanone	7.20	43	1107	1.217	ug/l #	56
29) Tetrahydrofuran	7.54	42	7609	14.635	ug/l	96
31) Cyclohexane	7.95	56	4923	1.205	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	16635	4.974	ug/l #	51
38) Carbon Tetrachloride	7.95	117	19627	6.856	ug/l #	18
41) Methacrylonitrile	7.54	41	4585	3.987	ug/l #	56
49) 1,4-Dioxane	9.43	88	19	1.147	ug/l #	15
52) Toluene	10.38	92	9135	1.615	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	56819	68.572	ug/l #	100
78) n-propylbenzene	12.80	91	10422	1.466	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	19654	4.013	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	56819	158.036	ug/l #	6
83) tert-Butylbenzene	13.25	119	11041	2.696	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.25	105	90924	18.431	ug/l	100
85) sec-Butylbenzene	13.38	105	8868	1.518	ug/l	83
86) p-Isopropyltoluene	13.50	119	7104	1.340	ug/l	100
89) n-Butylbenzene	13.82	91	18728	3.540	ug/l #	80
90) Hexachloroethane	14.10	117	6490	6.923	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.51	75	301	1.606	ug/l #	5
95) Naphthalene	15.37	128	18995	7.956	ug/l #	87

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

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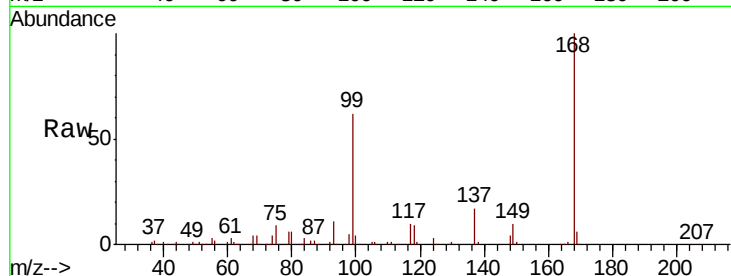
EO-01-080719-B

Tgt Ion:168 Resp: 190298

Ion Ratio Lower Upper

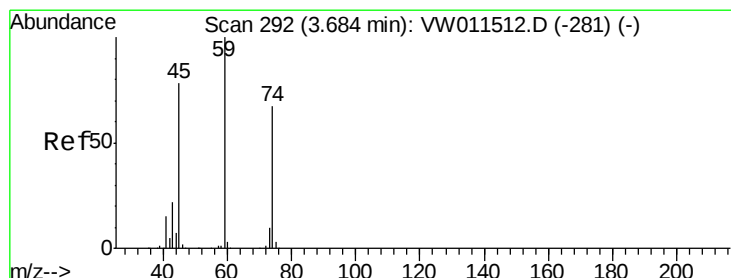
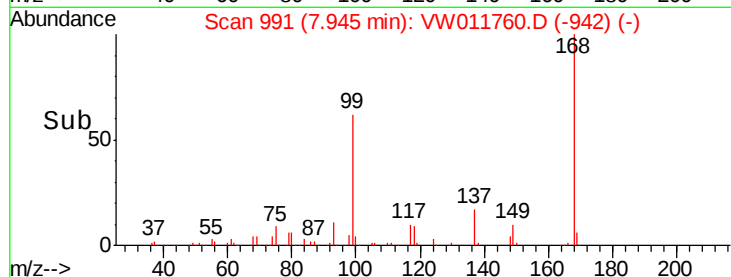
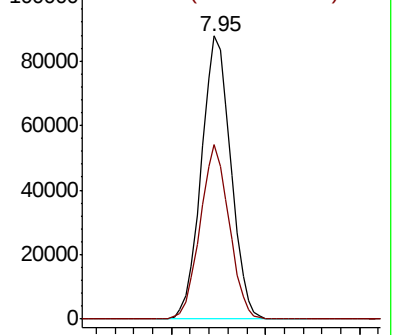
168 100

99 61.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.187 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW011760.D

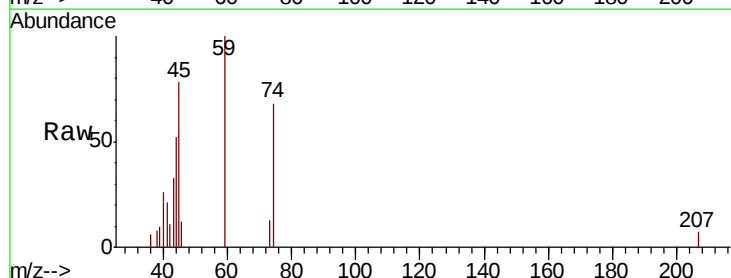
Acq: 07 Aug 2019 19:05

Tgt Ion: 74 Resp: 1332

Ion Ratio Lower Upper

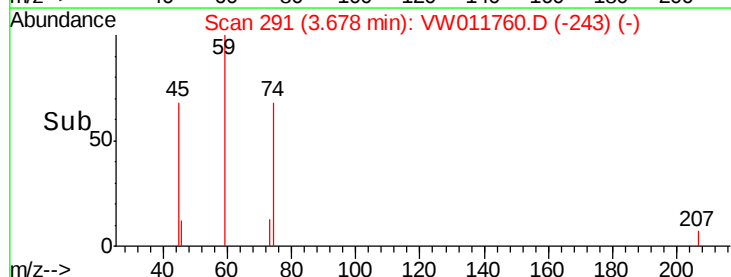
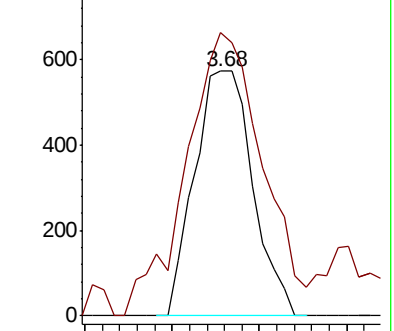
74 100

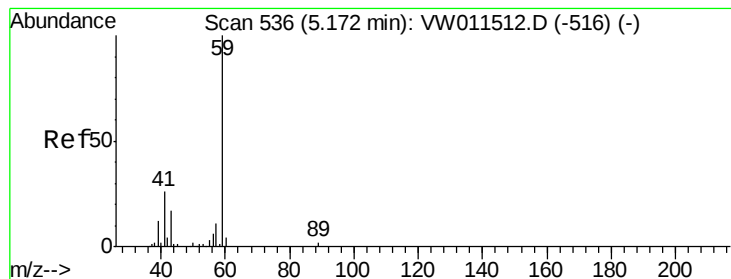
45 151.7 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



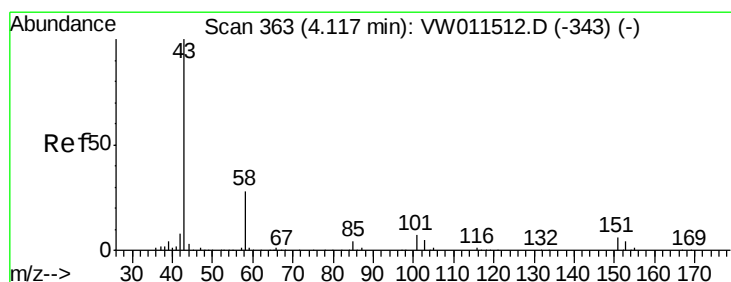
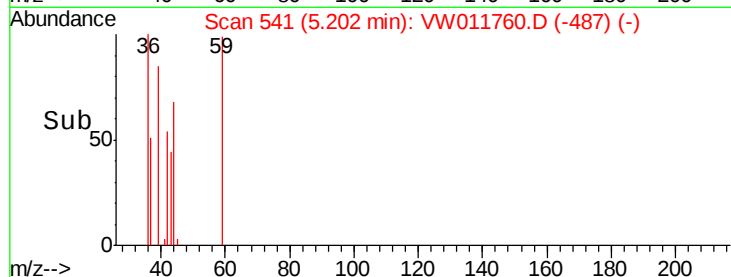
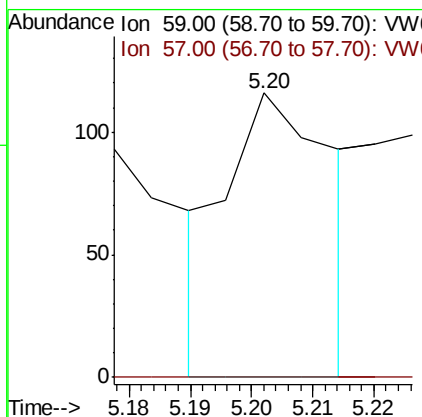
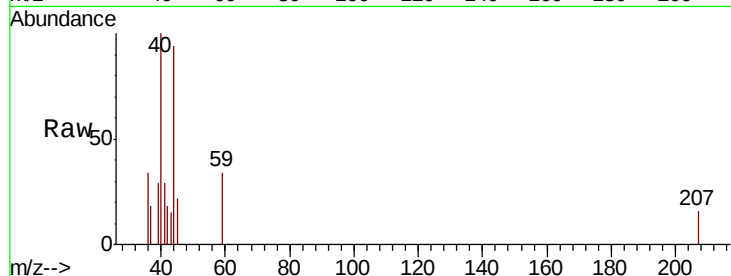


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.20 min Scan# 541
 Delta R.T. 0.03 min
 Lab File: VW011760.D
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Instrument :
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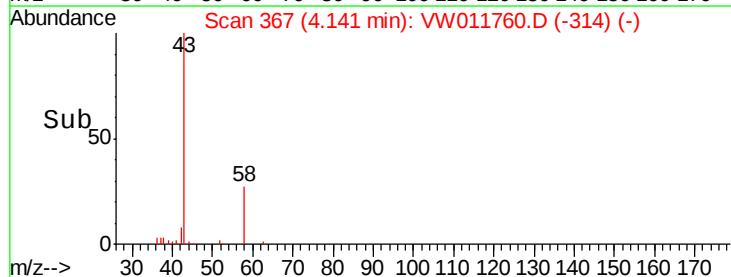
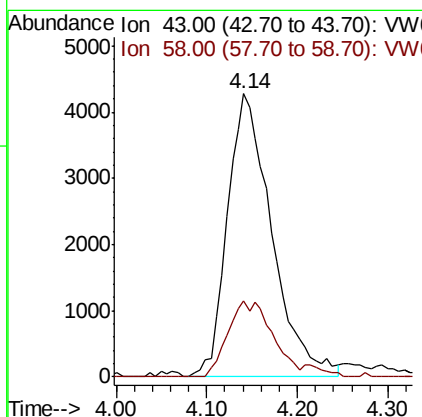
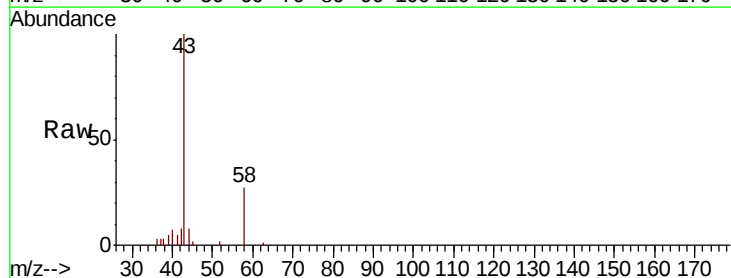
Tgt Ion: 59 Resp: 139
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

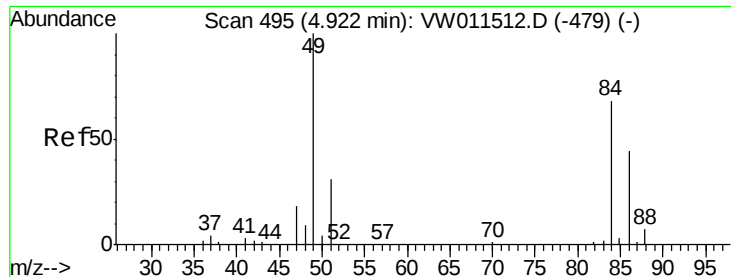


#16

Acetone
 Concen: 20.881 ug/l
 RT: 4.14 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Tgt Ion: 43 Resp: 14514
 Ion Ratio Lower Upper
 43 100
 58 27.0 22.3 33.5

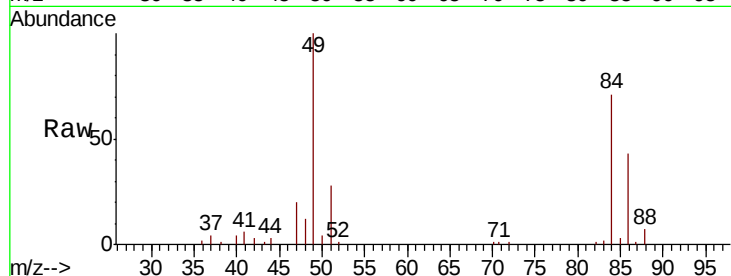




#20
Methylene Chloride
Concen: 9.239 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

Instrument :
MSVOA_W
ClientSampleId :
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Tgt Ion:	84	Resp:	22149
Ion	Ratio	Lower	Upper
84	100		
49	139.9	117.8	176.6
51	38.7	37.0	55.4
86	59.7	51.8	77.8



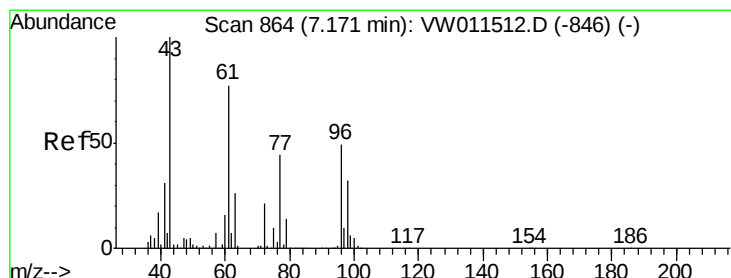
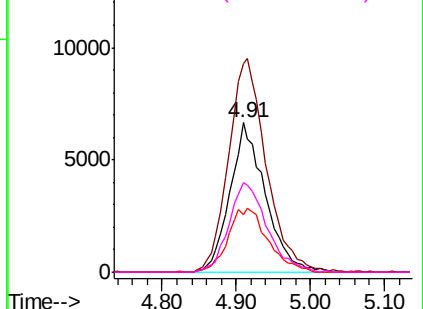
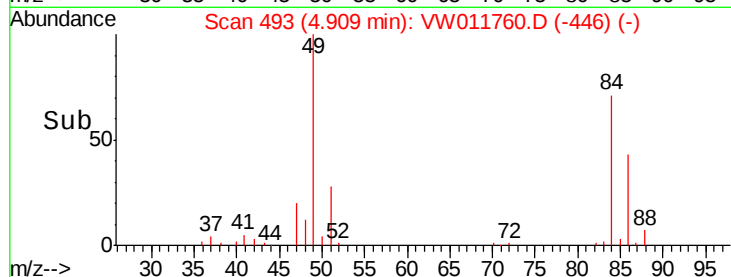
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

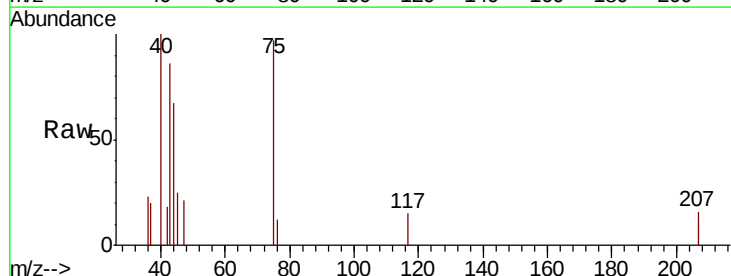
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25
2-Butanone
Concen: 1.217 ug/l
RT: 7.20 min Scan# 868
Delta R.T. 0.02 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

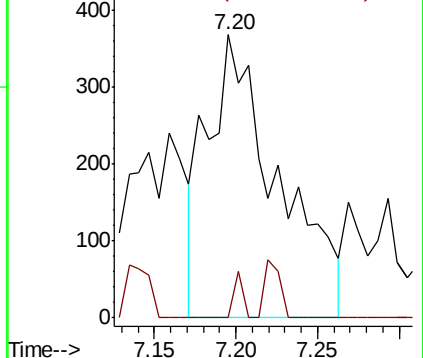
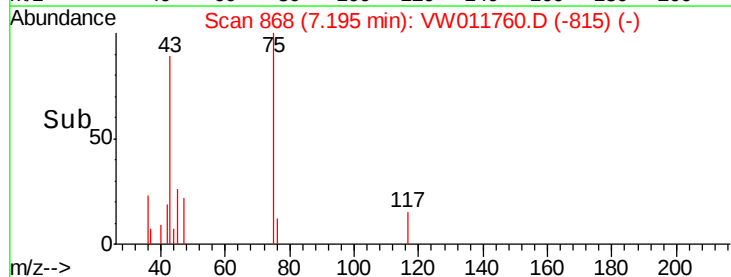
Tgt Ion:	43	Resp:	1107
Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.6	24.8#

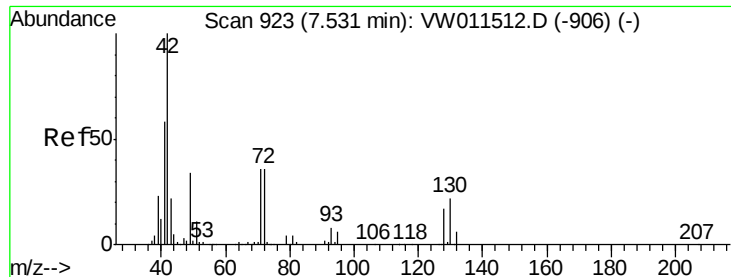


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

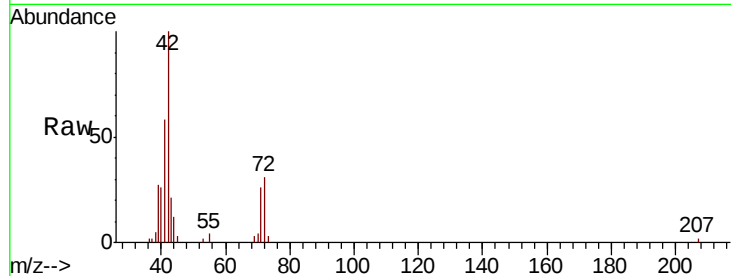




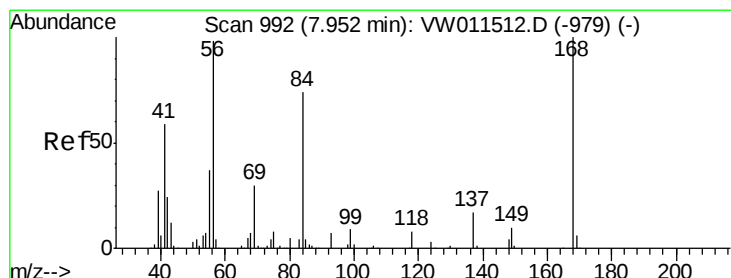
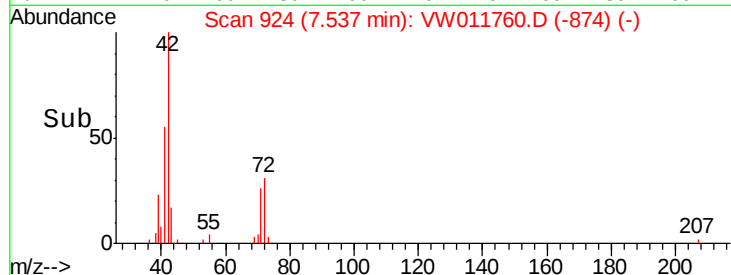
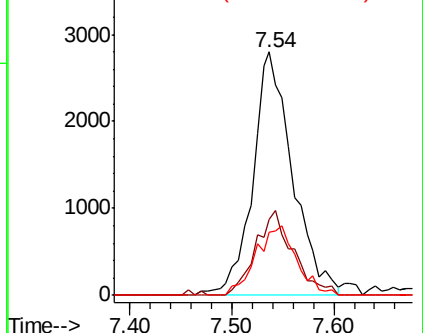
#29
Tetrahydrofuran
Concen: 14.635 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

Instrument :
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ClientSampleId :
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Tgt Ion: 42 Resp: 7609
Ion Ratio Lower Upper
42 100
72 32.8 27.1 40.7
71 29.0 26.2 39.4

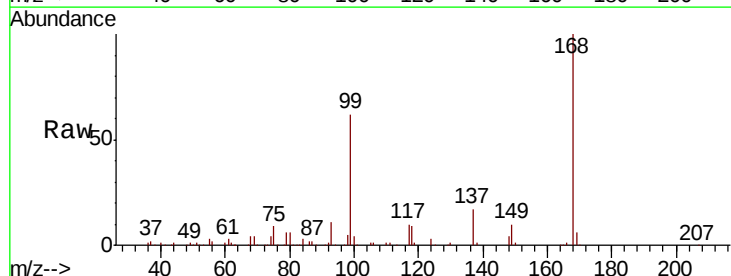


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

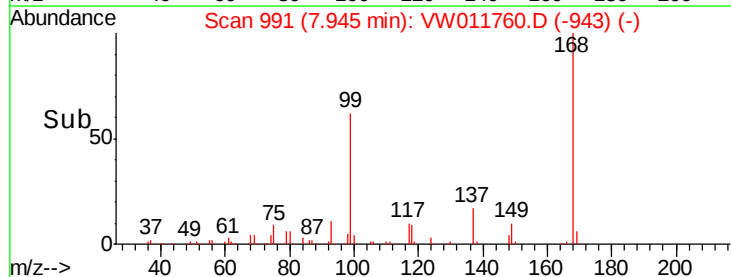
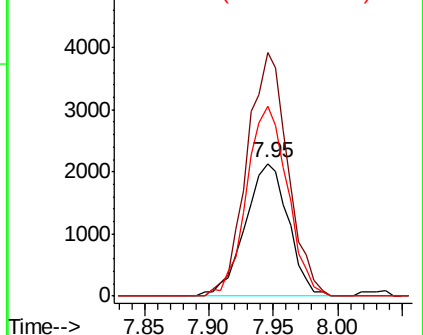


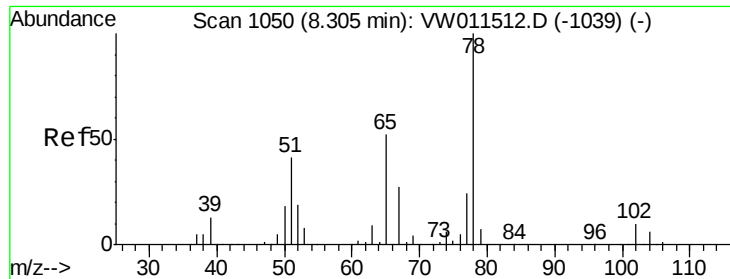
#31
Cyclohexane
Concen: 1.205 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

Tgt Ion: 56 Resp: 4923
Ion Ratio Lower Upper
56 100
69 183.5 24.3 36.5#
84 143.3 60.4 90.6#



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

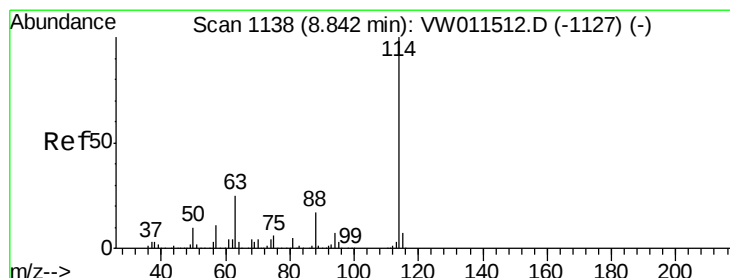
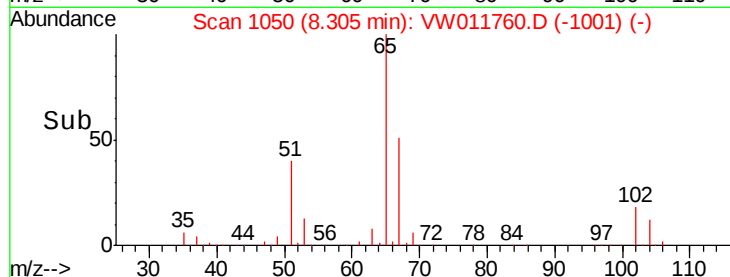
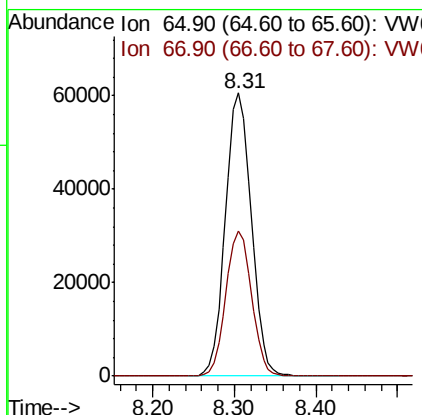
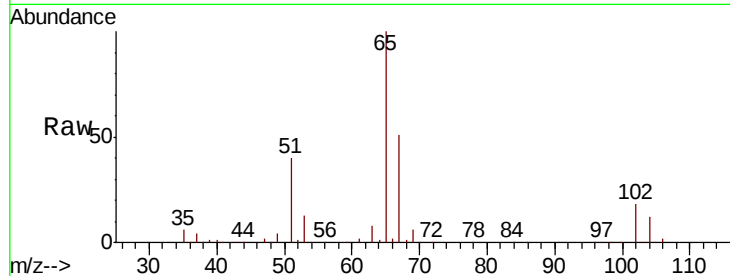




#33
 1,2-Dichloroethane-d4
 Concen: 61.004 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW011760.D
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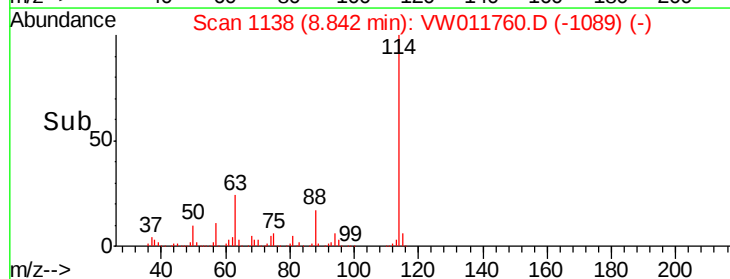
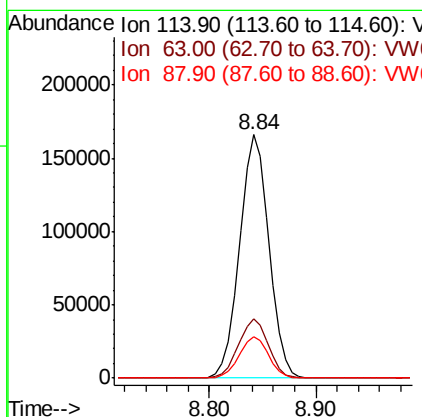
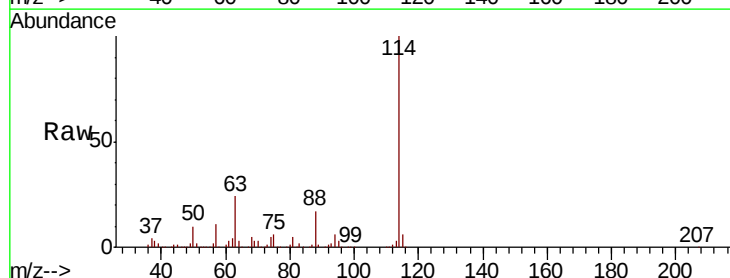
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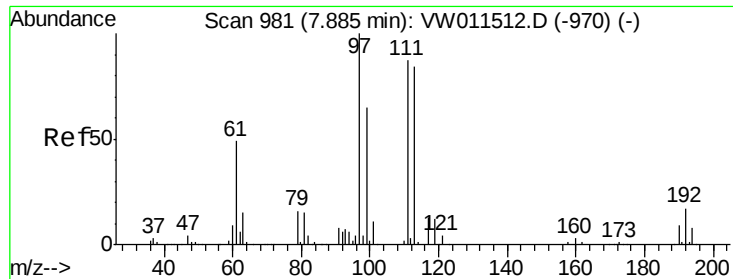
Tgt Ion: 65 Resp: 133304
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Tgt Ion: 114 Resp: 321606
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 49.2
 88 16.9 0.0 33.8

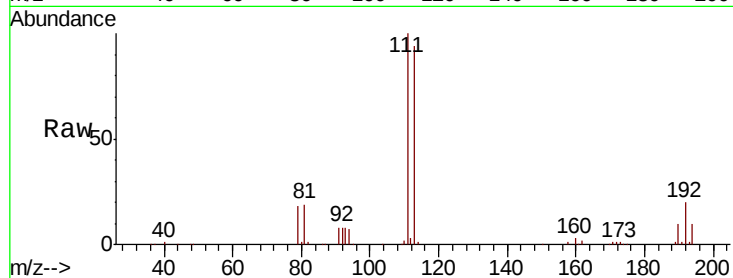




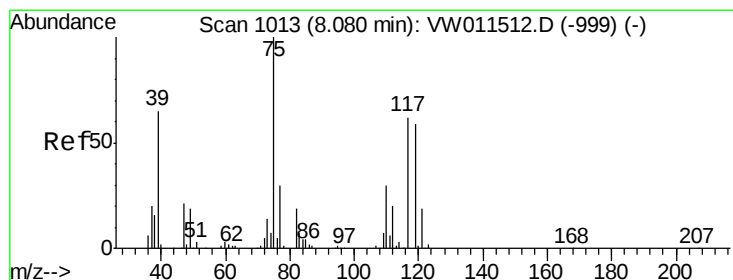
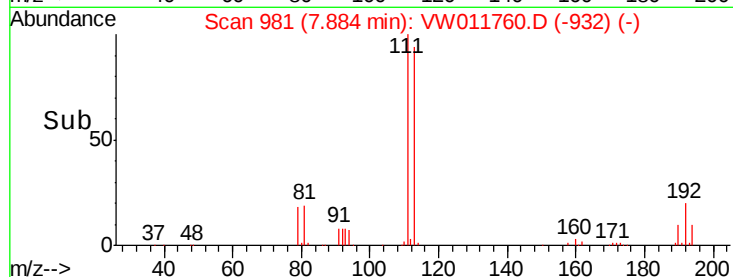
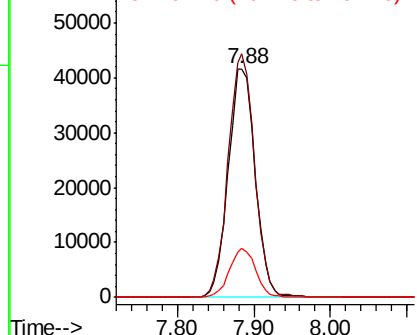
#35
 Dibromofluoromethane
 Concen: 56.285 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Instrument :
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Tgt Ion: 113 Resp: 101553
 Ion Ratio Lower Upper
 113 100
 111 104.4 82.7 124.1
 192 20.8 16.1 24.1

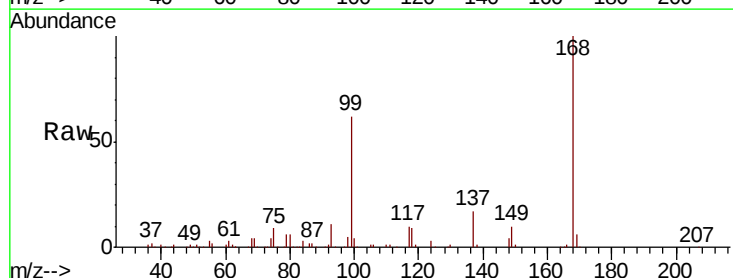


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

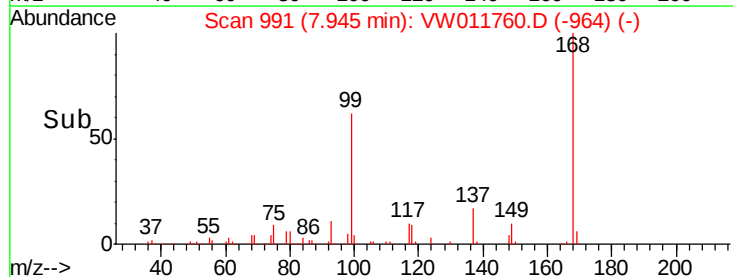
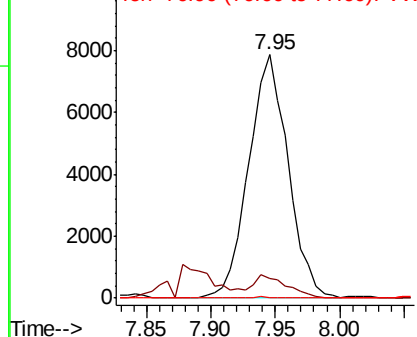


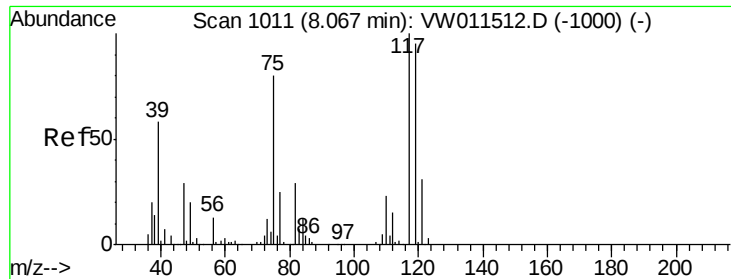
#36
 1,1-Dichloropropene
 Concen: 4.974 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Tgt Ion: 75 Resp: 16635
 Ion Ratio Lower Upper
 75 100
 110 7.9 15.6 46.8#
 77 0.1 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.856 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011760.D

Acq: 07 Aug 2019 19:05

Instrument :

MSVOA_W

ClientSampleId :

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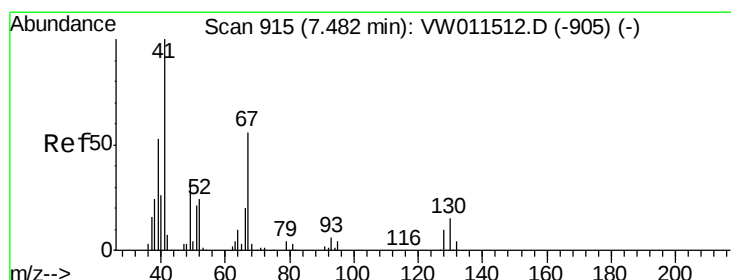
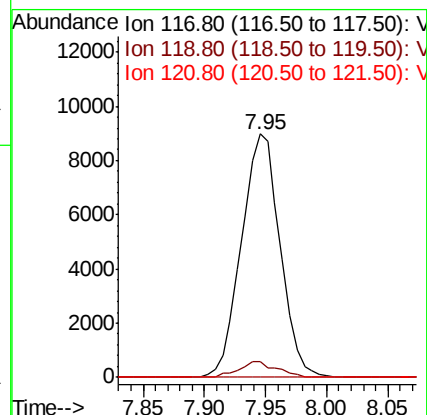
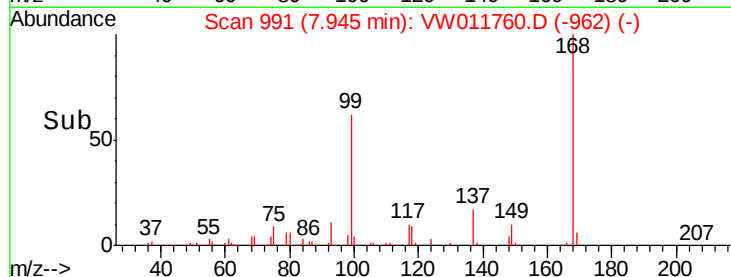
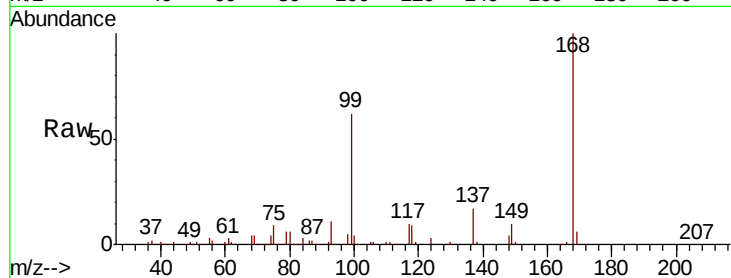
Tgt Ion:117 Resp: 19627

Ion Ratio Lower Upper

117 100

119 6.6 75.8 113.6#

121 0.0 24.7 37.1#



#41

Methacrylonitrile

Concen: 3.987 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW011760.D

Acq: 07 Aug 2019 19:05

Tgt Ion: 41 Resp: 4585

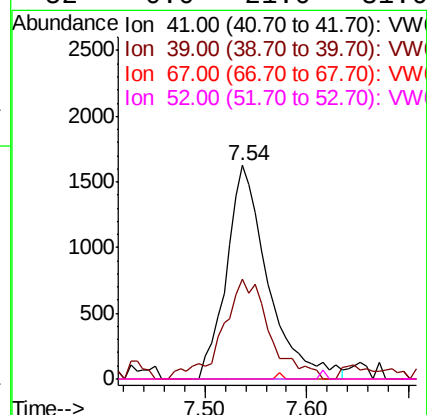
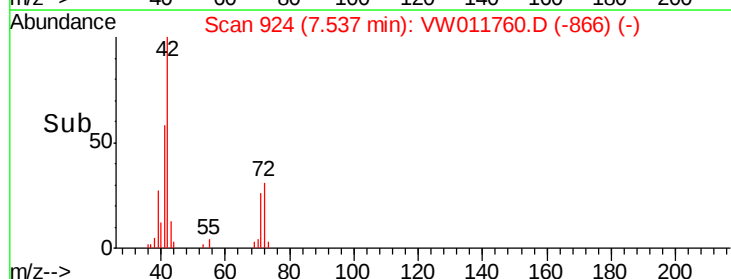
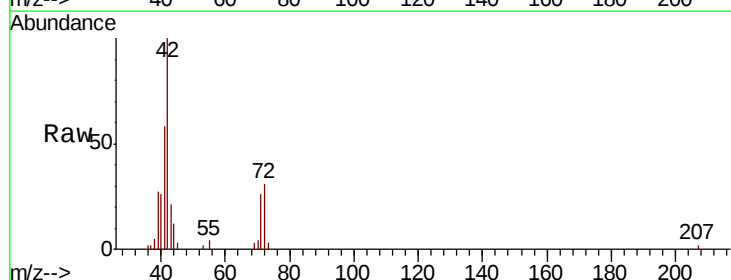
Ion Ratio Lower Upper

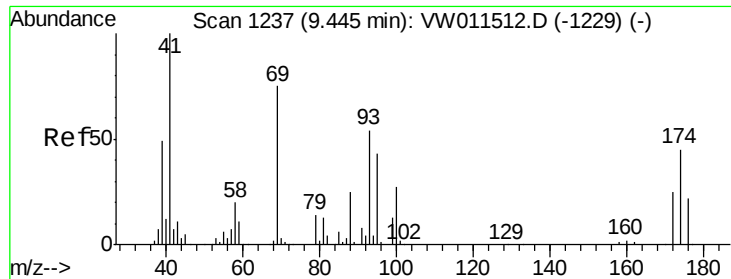
41 100

39 52.9 43.0 64.4

67 0.0 47.5 71.3#

52 0.0 21.0 31.6#

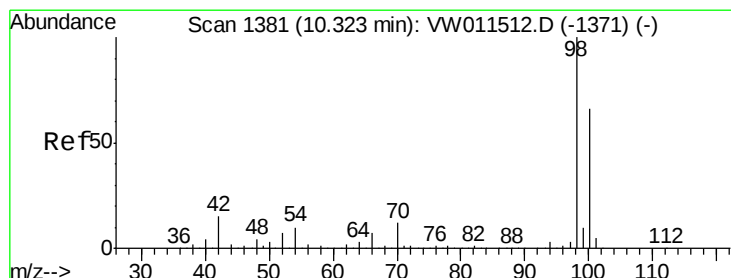
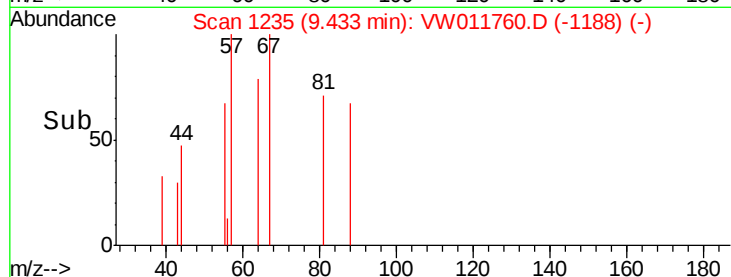
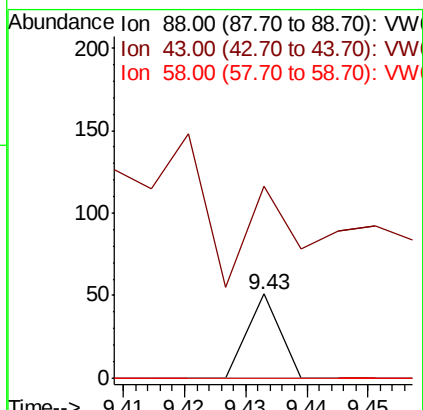
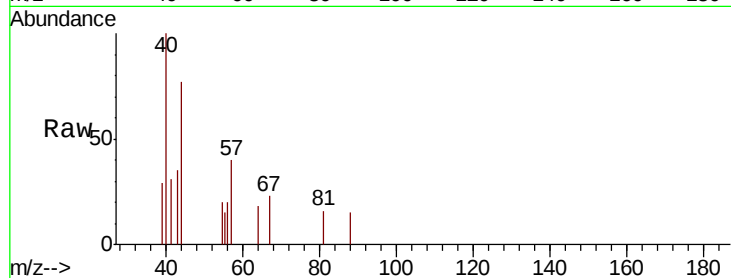




#49
1,4-Dioxane
Concen: 1.147 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. -0.01 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

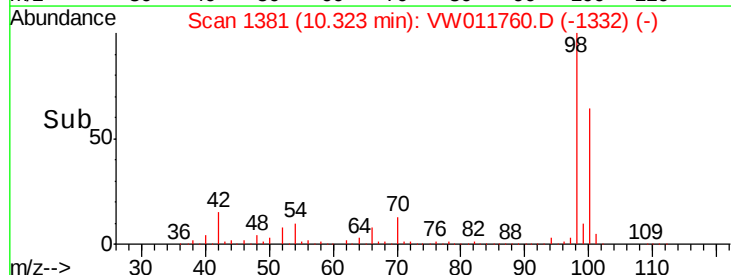
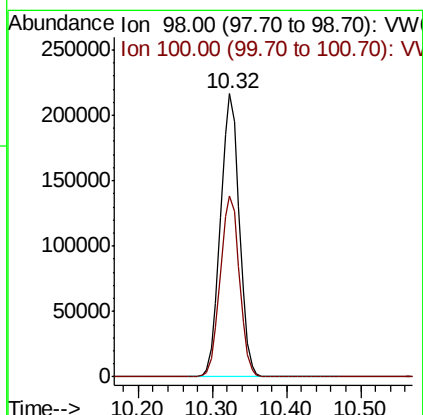
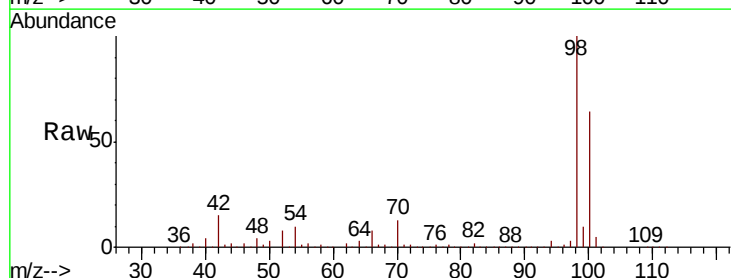
Instrument :
MSVOA_W
ClientSampleId :
EO-01-080719-B

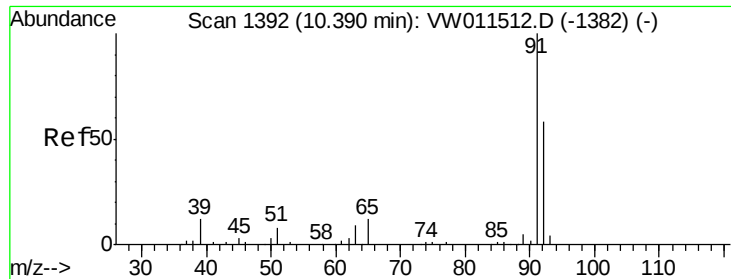
Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 34.0 51.0#
58 0.0 69.7 104.5#



#50
Toluene-d8
Concen: 51.555 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

Tgt Ion: 98 Resp: 380846
Ion Ratio Lower Upper
98 100
100 64.7 52.7 79.1





#52

Toluene

Concen: 1.615 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW011760.D

Acq: 07 Aug 2019 19:05

Instrument :

MSVOA_W

ClientSampleId :

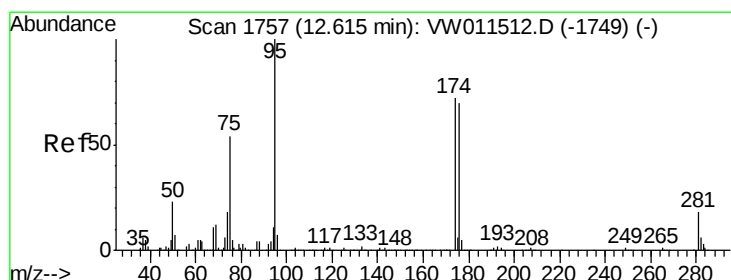
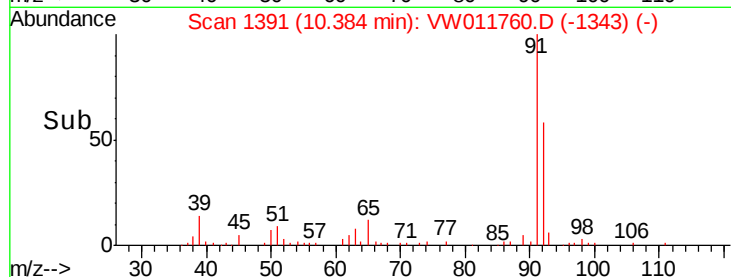
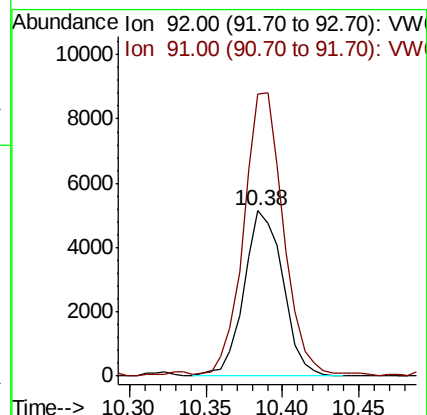
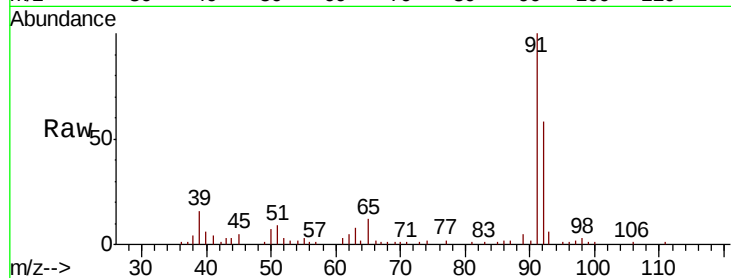
EO-01-080719-B

Tgt Ion: 92 Resp: 9135

Ion Ratio Lower Upper

92 100

91 175.6 136.7 205.1



#62

4-Bromofluorobenzene

Concen: 39.812 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011760.D

Acq: 07 Aug 2019 19:05

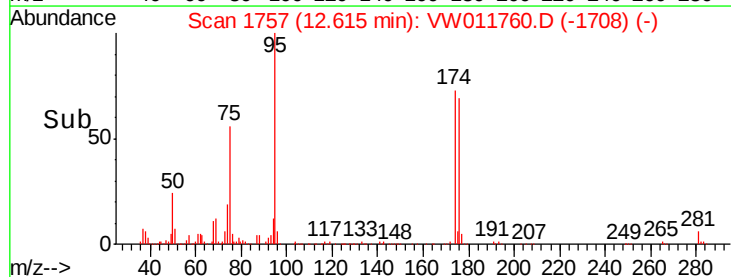
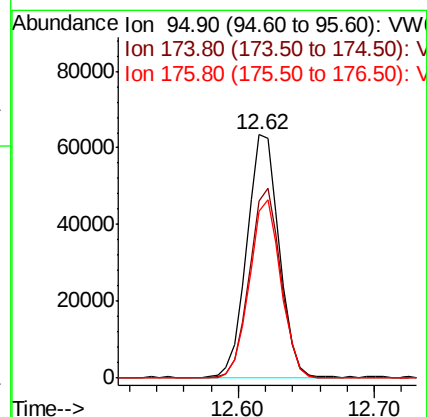
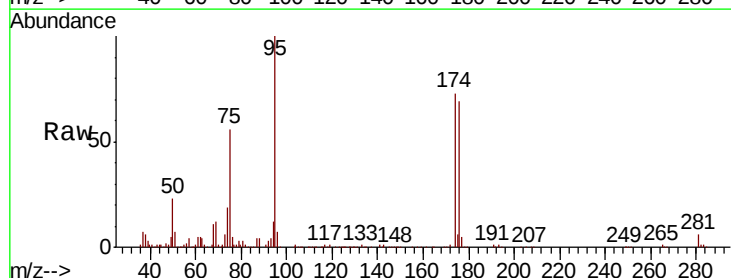
Tgt Ion: 95 Resp: 104852

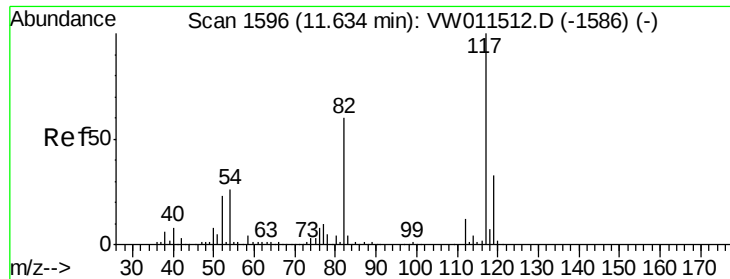
Ion Ratio Lower Upper

95 100

174 76.8 0.0 150.2

176 72.1 0.0 144.4

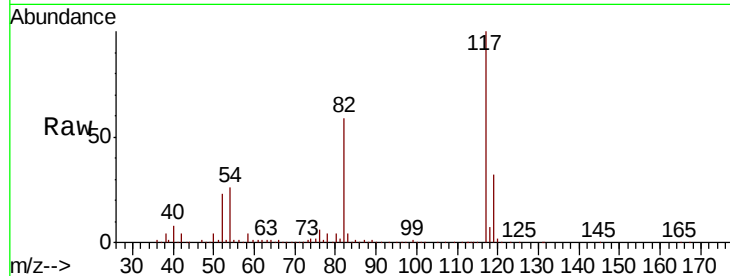




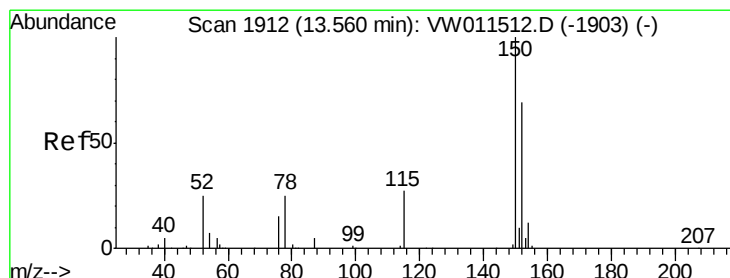
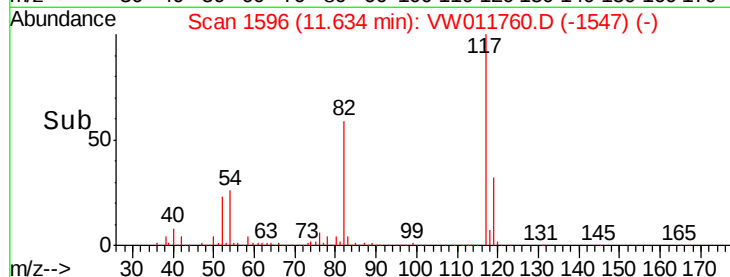
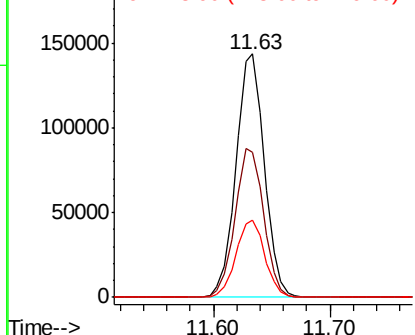
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

Instrument :
MSVOA_W
ClientSampleId :
EO-01-080719-B

Tgt Ion:117 Resp: 243843
Ion Ratio Lower Upper
117 100
82 59.3 47.9 71.9
119 31.9 26.2 39.2

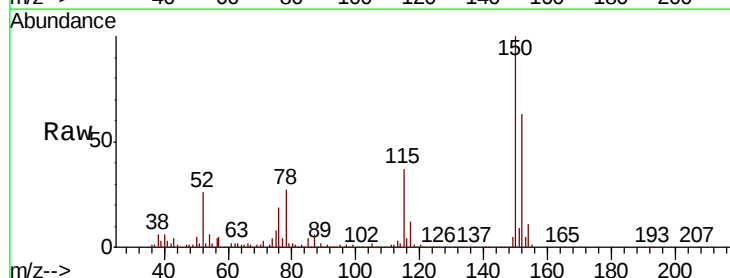


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

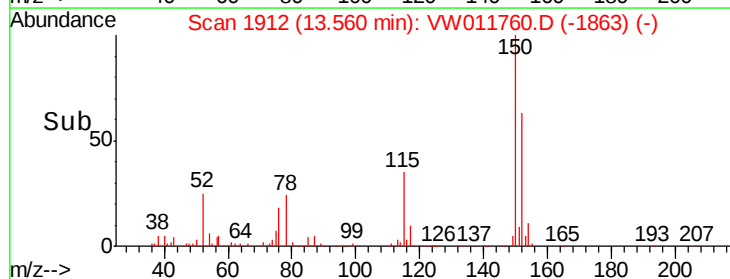
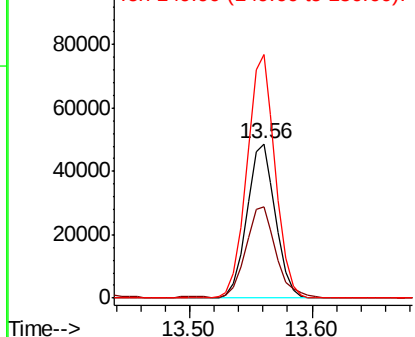


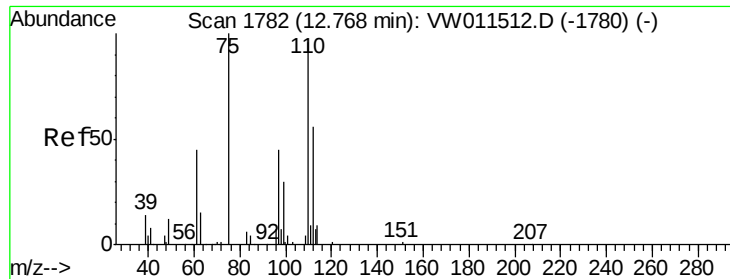
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

Tgt Ion:152 Resp: 78309
Ion Ratio Lower Upper
152 100
115 62.1 30.5 91.5
150 156.7 0.0 352.6



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

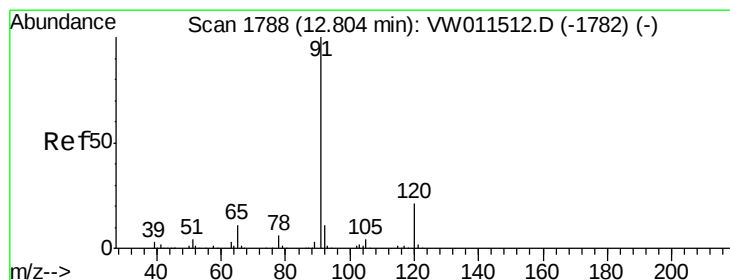
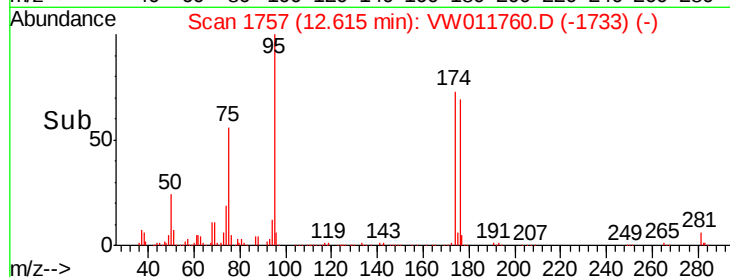
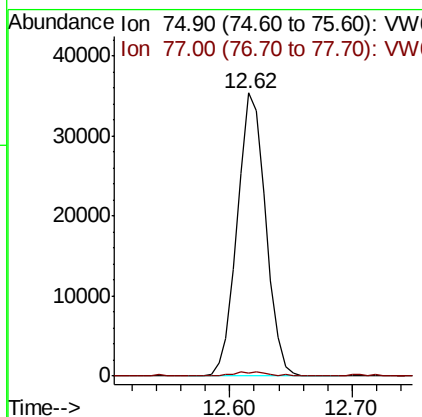
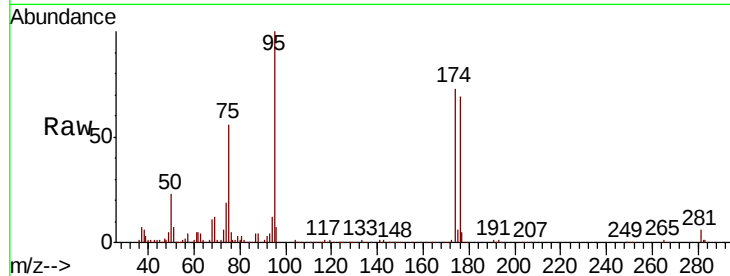




#76
 1,2,3-Trichloropropane
 Concen: 68.572 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

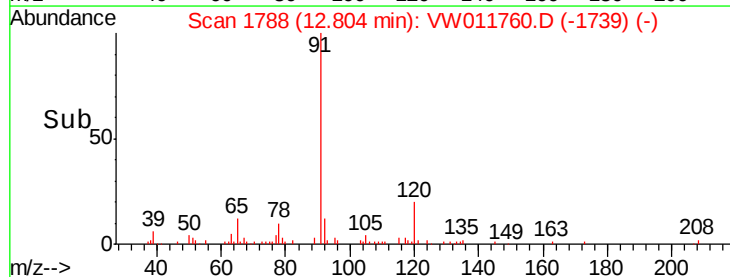
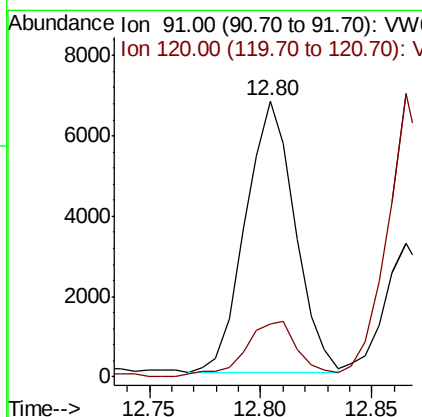
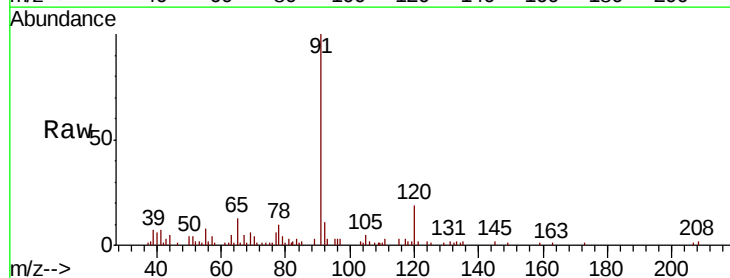
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-080719-B

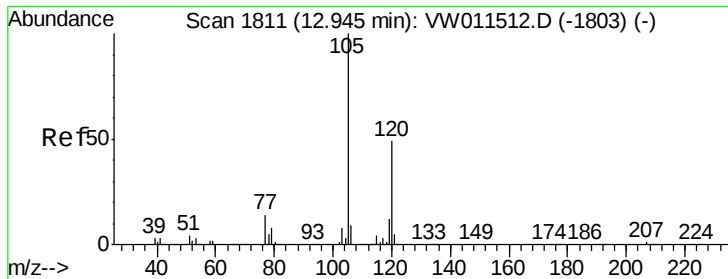
Tgt Ion: 75 Resp: 56819
 Ion Ratio Lower Upper
 75 100
 77 2.1 0.0 0.0#



#78
 n-propylbenzene
 Concen: 1.466 ug/l
 RT: 12.80 min Scan# 1788
 Delta R.T. -0.00 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Tgt Ion: 91 Resp: 10422
 Ion Ratio Lower Upper
 91 100
 120 22.2 10.9 32.7

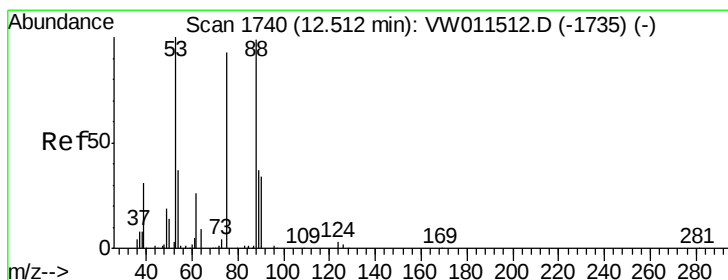
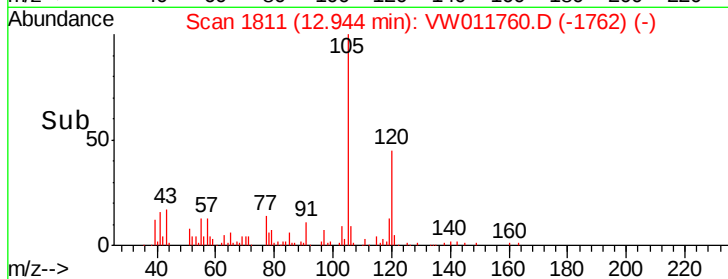
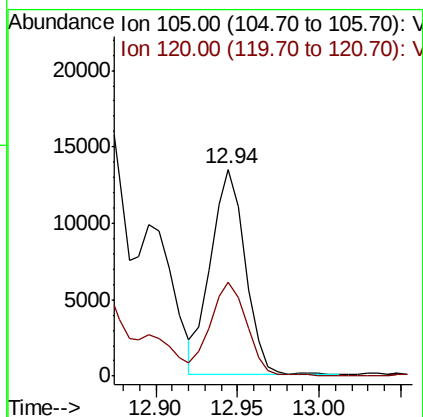
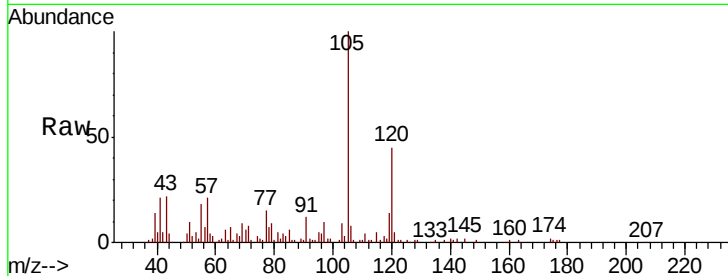




#80
 1,3,5-Trimethylbenzene
 Concen: 4.013 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

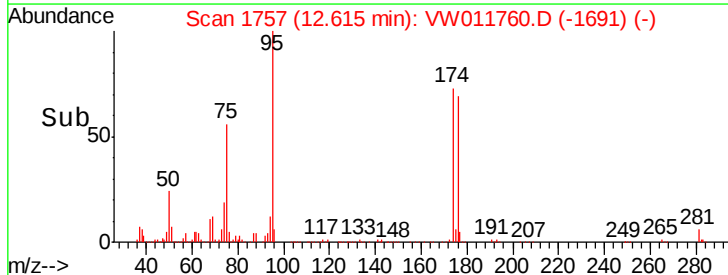
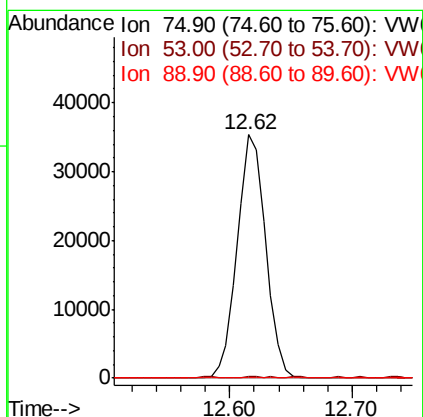
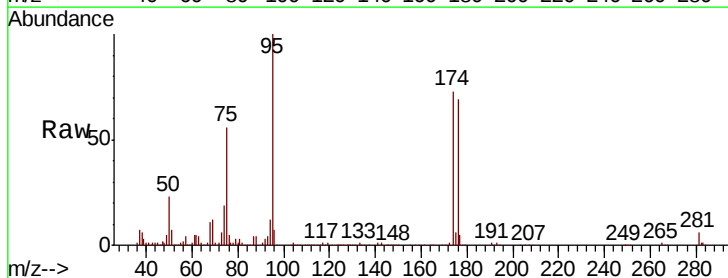
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-080719-B

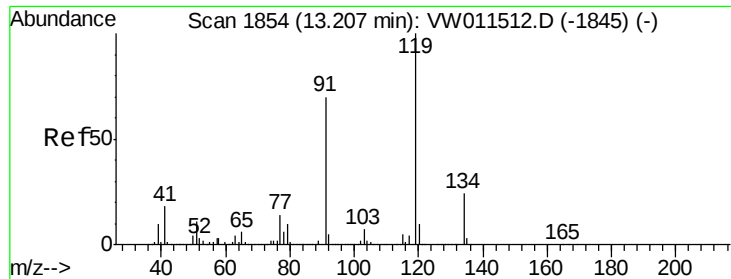
Tgt Ion: 105 Resp: 19654
 Ion Ratio Lower Upper
 105 100
 120 49.1 24.1 72.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 158.036 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Tgt Ion: 75 Resp: 56819
 Ion Ratio Lower Upper
 75 100
 53 0.2 88.0 132.0#
 89 0.1 35.3 52.9#

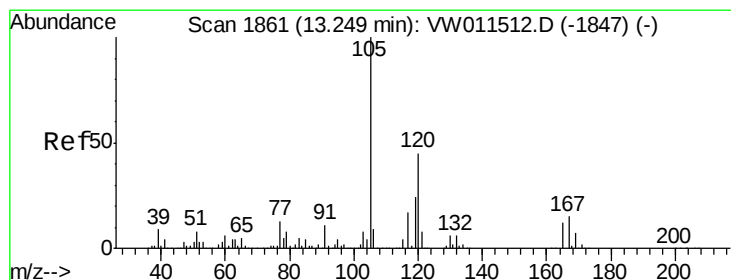
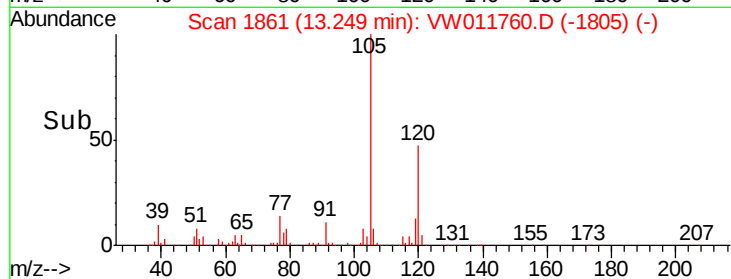
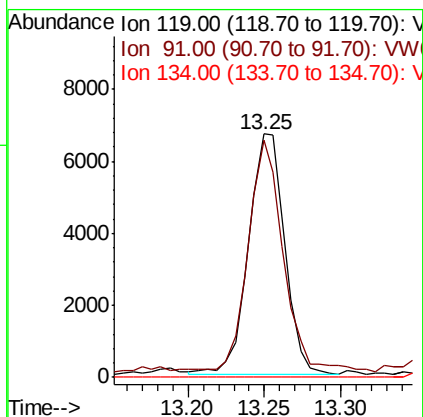
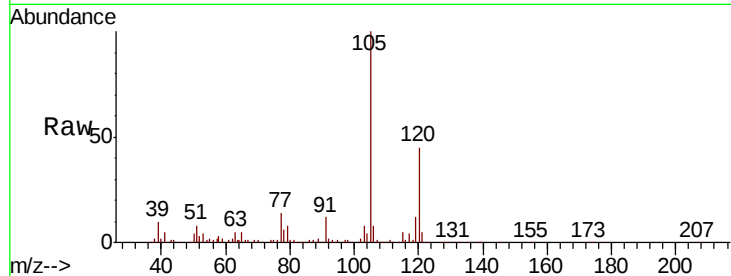




#83
 tert-Butylbenzene
 Concen: 2.696 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.04 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

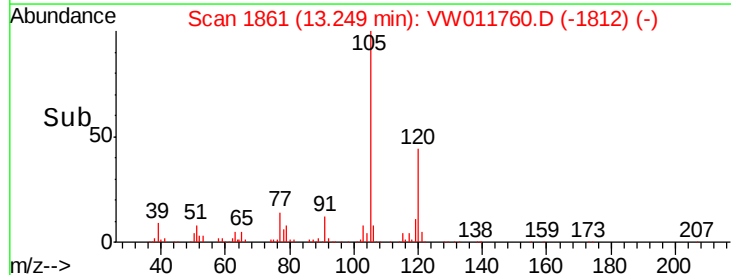
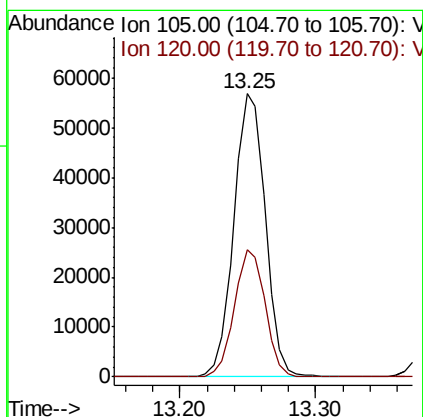
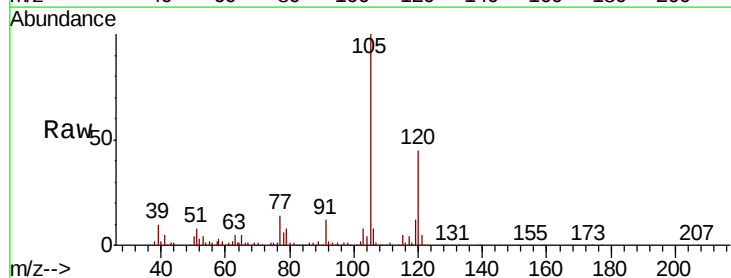
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-080719-B

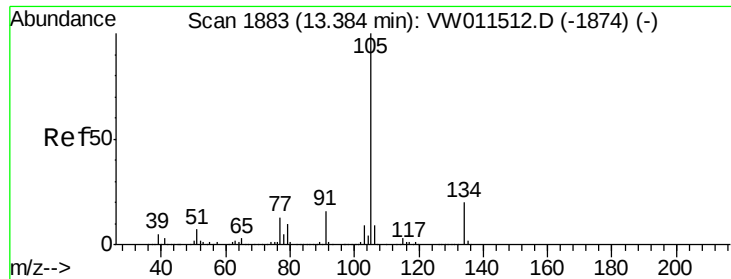
Tgt Ion:119 Resp: 11041
 Ion Ratio Lower Upper
 119 100
 91 92.9 34.5 103.6
 134 0.0 12.4 37.4#



#84
 1,2,4-Trimethylbenzene
 Concen: 18.431 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Tgt Ion:105 Resp: 90924
 Ion Ratio Lower Upper
 105 100
 120 44.3 22.1 66.5

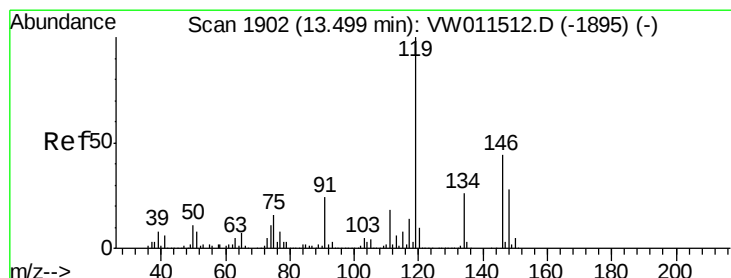
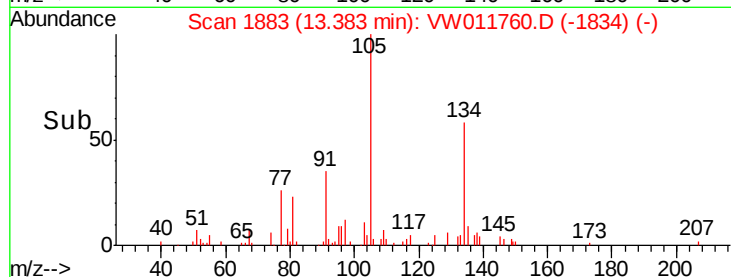
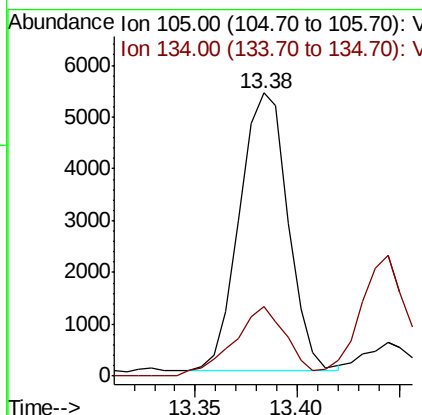
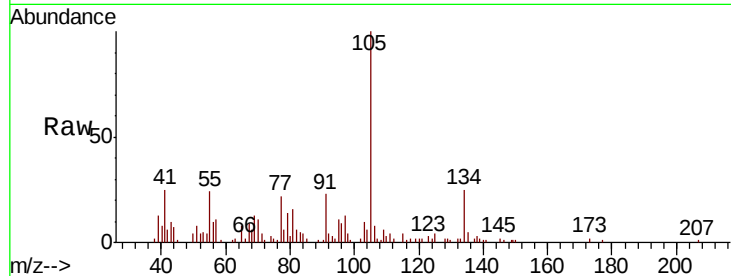




#85
 sec-Butylbenzene
 Concen: 1.518 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

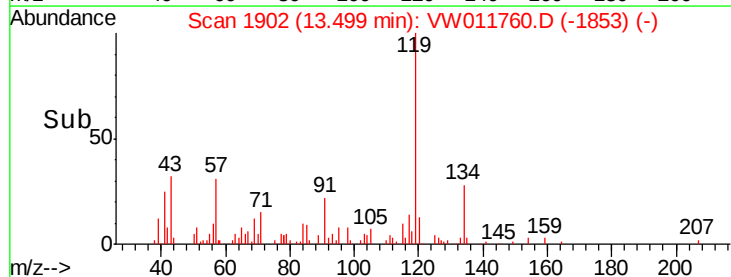
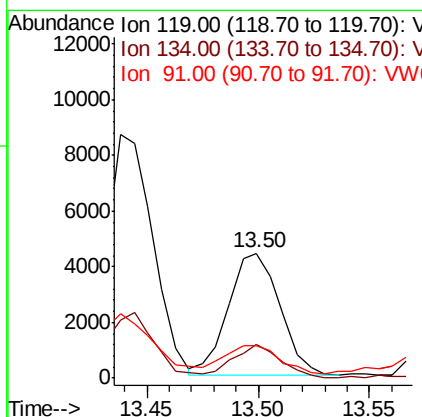
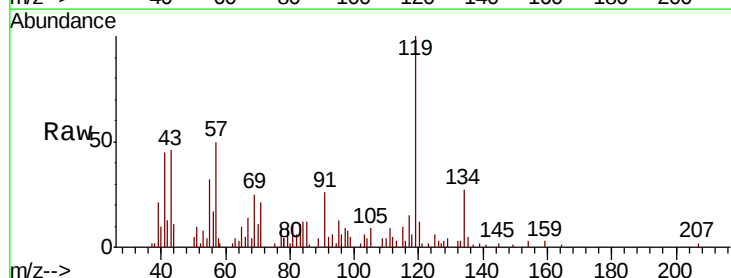
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-080719-B

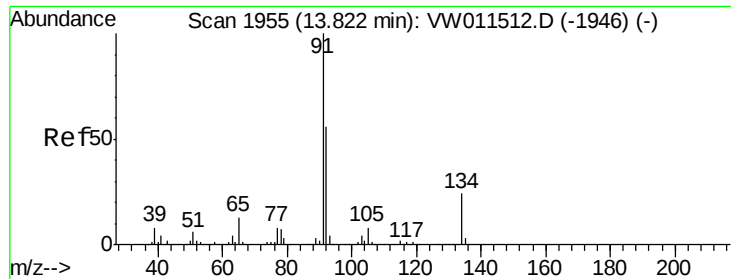
Tgt Ion:105 Resp: 8868
 Ion Ratio Lower Upper
 105 100
 134 27.1 9.7 29.1



#86
 p-Isopropyltoluene
 Concen: 1.340 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Tgt Ion:119 Resp: 7104
 Ion Ratio Lower Upper
 119 100
 134 25.4 12.8 38.4
 91 24.0 12.1 36.3

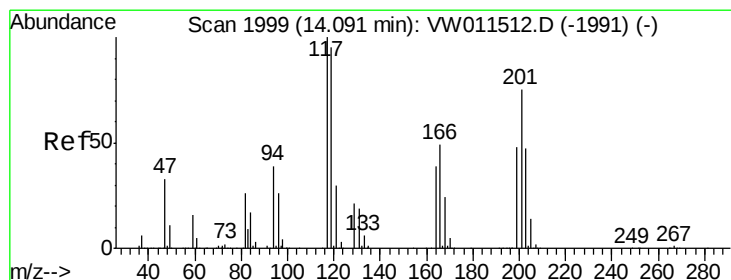
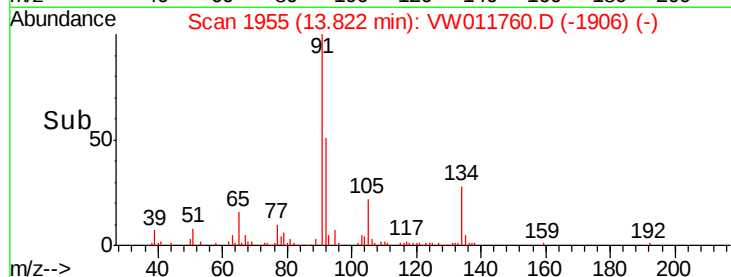
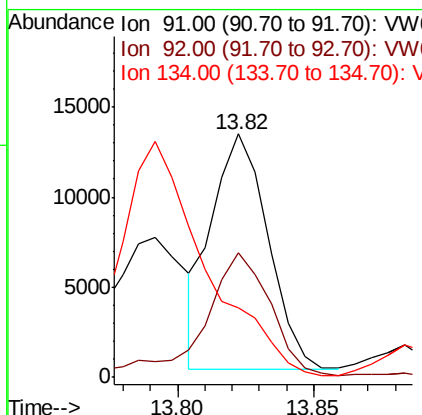
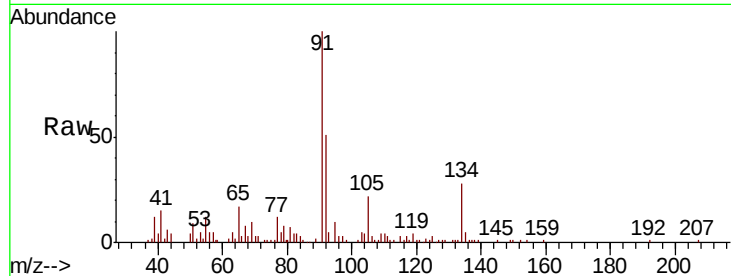




#89
n-Butylbenzene
Concen: 3.540 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

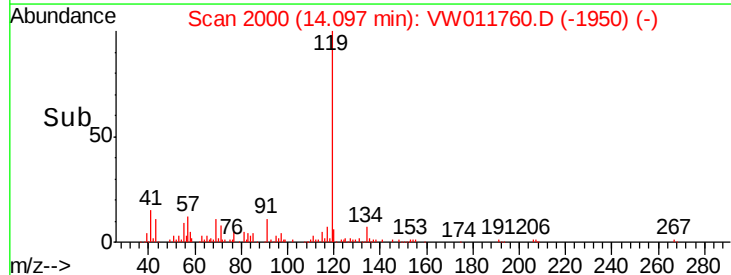
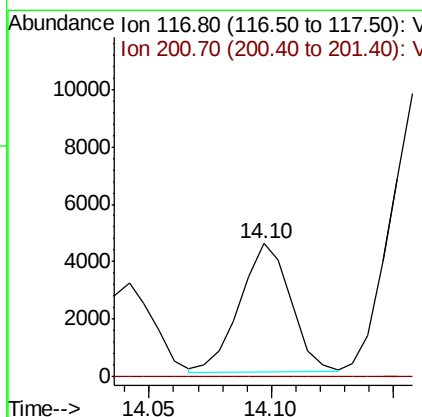
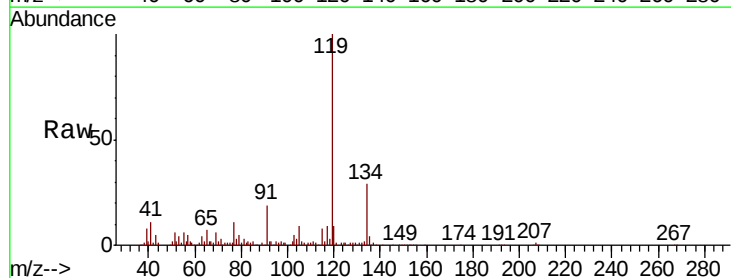
Instrument :
MSVOA_W
ClientSampleId :
EO-01-080719-B

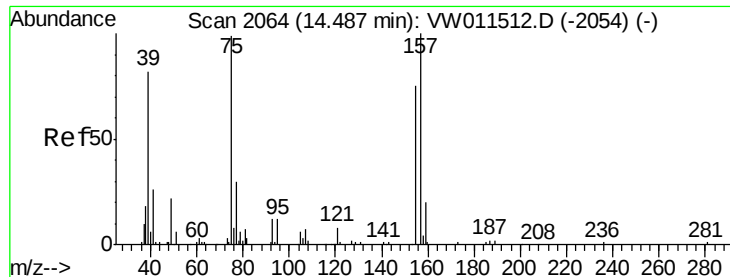
Tgt Ion: 91 Resp: 18728
Ion Ratio Lower Upper
91 100
92 60.3 27.5 82.4
134 0.0 12.2 36.6#



#90
Hexachloroethane
Concen: 6.923 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.01 min
Lab File: VW011760.D
Acq: 07 Aug 2019 19:05

Tgt Ion: 117 Resp: 6490
Ion Ratio Lower Upper
117 100
201 0.0 39.4 118.2#

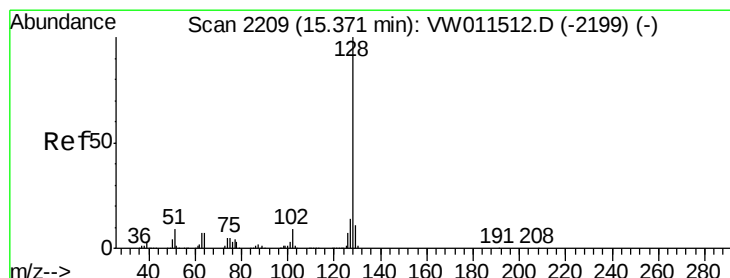
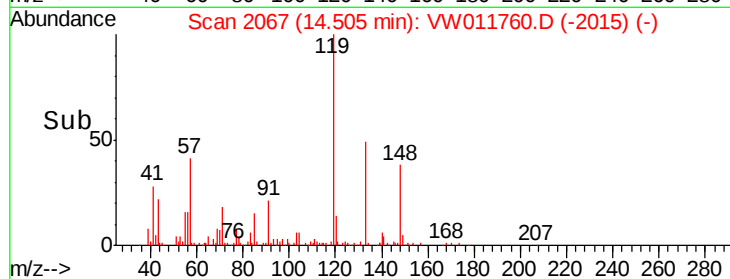
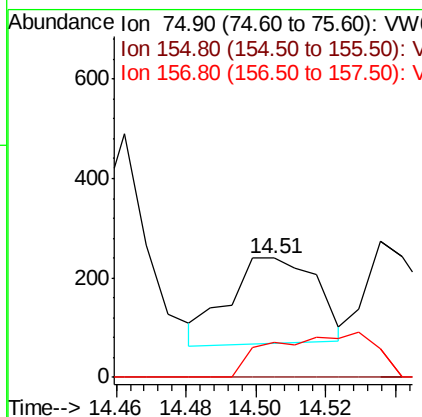
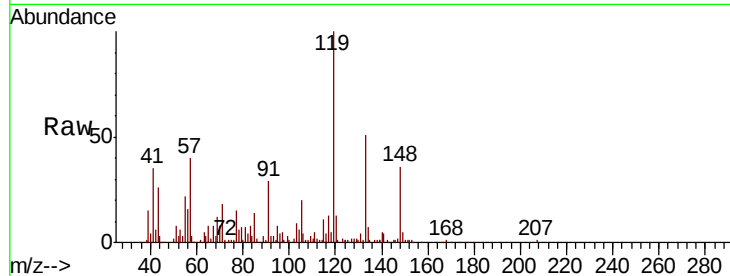




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.606 ug/l
 RT: 14.51 min Scan# 2067
 Delta R.T. 0.02 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-080719-B

Tgt Ion: 75 Resp: 301
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.2 114.6#
 157 0.0 48.9 146.7#



#95
 Naphthalene
 Concen: 7.956 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW011760.D
 Acq: 07 Aug 2019 19:05

Tgt Ion: 128 Resp: 18995
 Ion Ratio Lower Upper
 128 100
 127 19.4 10.6 16.0#
 129 6.6 8.6 13.0#

