

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080118\
 Data File : VW004380.D
 Acq On : 01 Aug 2018 16:38
 Operator : SY/AP
 Sample : J4209-04
 Misc : 6.33G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 02 03:57:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM073118S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 02 03:56:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	149193	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	73586	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.68	152	1563	25.00	ug/L	0.12

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	68858	59.24	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	236.96%#
7) Chloroethane-d5	2.89	69	48548	42.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	169.12%#
10) 1,1-Dichloroethene-d2	4.01	63	99467	29.64	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	118.56%#
20) 2-Butanone-d5	7.09	46	45076	62.54	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	125.08%
24) Chloroform-d	7.65	84	101107	27.41	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	109.64%
26) 1,2-Dichloroethane-d4	8.31	65	66543	32.22	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	128.88%
29) Benzene-d6	8.27	84	196211	51.63	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	206.52%#
33) 1,2-Dichloropropane-d6	9.28	67	55266	46.95	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	187.80%#
37) Toluene-d8	10.33	98	121535	33.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	133.88%#
38) trans-1,3-Dichloropropene-	10.58	79	16749	29.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	117.76%
39) 2-Hexanone-d5	10.93	63	20994	69.45	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	138.90%#
48) 1,1,2,2-Tetrachloroethane-	12.70	84	21724	17.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	70.68%
61) 1,2-Dichlorobenzene-d4	13.87	152	23310	390.20	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	1560.80%#

Target Compounds

					Ovalue
13) Acetone	4.14	43	65254	103.482	ug/L 96
21) 2-Butanone	7.17	43	6861	7.983	ug/L 89
25) Chloroform	7.68	83	9921	2.698	ug/L 86
27) 1,2-Dichloroethane	8.40	62	34406	13.852	ug/L 97
30) Cyclohexane	7.93	56	11659	6.709	ug/L # 50
34) Benzene	8.32	78	11401	2.673	ug/L 100
35) Trichloroethene	9.09	95	2641	2.313	ug/L # 91
36) Methylcyclohexane	9.34	83	43148	21.184	ug/L # 79
43) 4-Methyl-2-pentanone	10.22	43	2989	3.450	ug/L # 90
44) Toluene	10.39	91	199298	43.446	ug/L 98
46) 1,1,2-Trichloroethane	10.76	97	1997	2.263	ug/L # 23
47) Tetrachloroethene	10.87	164	5635	5.747	ug/L 97
49) 2-Hexanone	10.94	43	9020	14.009	ug/L # 51
50) Dibromochloromethane	10.87	129	5225	4.860	ug/L # 10
52) Chlorobenzene	11.66	112	169139	55.393	ug/L 96
53) Ethylbenzene	11.74	91	1306183	251.694	ug/L 96
54) m,p-Xylene	11.84	106	2042970	1040.721	ug/L 98

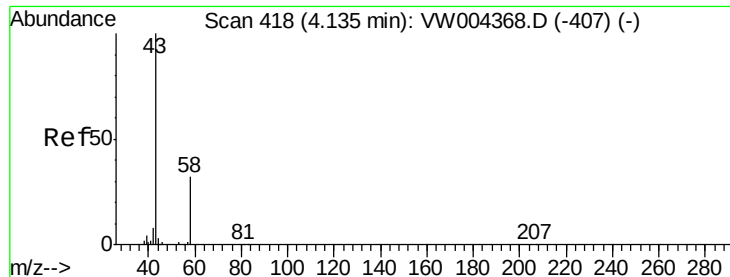
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080118\
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM073118S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 02 03:56:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.17	106	2031317	1095.596	ug/L	95
56) Styrene	12.17	104	103942	32.386	ug/L #	1
57) Isopropylbenzene	12.47	105	37465	7.207	ug/L #	95
63) 1,3-Dichlorobenzene	13.51	146	15435149	153101.063	ug/L	90
64) 1,4-Dichlorobenzene	13.59	146	14425079	139070.815	ug/L	86
66) 1,2-Dibromo-3-chloropropan	14.48	75	2487	264.824	ug/L #	6
67) 1,3,5-Trichlorobenzene	14.64	180	166065	2077.677	ug/L	98
68) 1,2,4-trichlorobenzene	15.15	180	2467023	36344.113	ug/L	99
69) Naphthalene	15.38	128	99591	649.200	ug/L #	85
70) 1,2,3-Trichlorobenzene	15.57	180	901184	14347.771	ug/L	100

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



#13

Acetone

Concen: 103.482 ug/L

RT: 4.14 min Scan# 418

Delta R.T. -0.00 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Instrument :

MSVOA_W

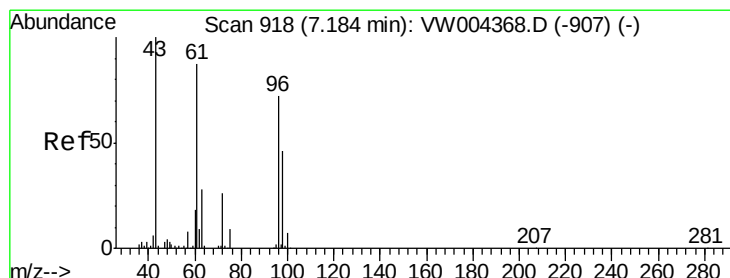
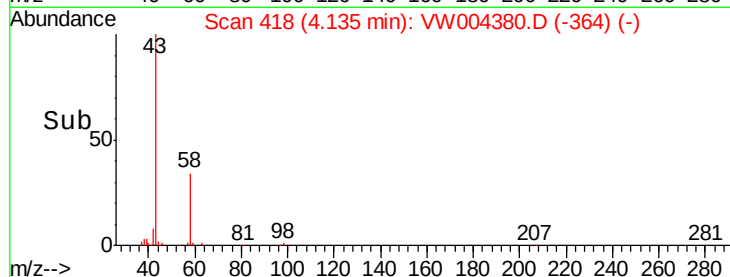
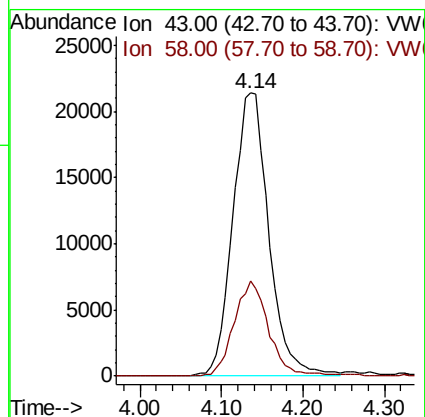
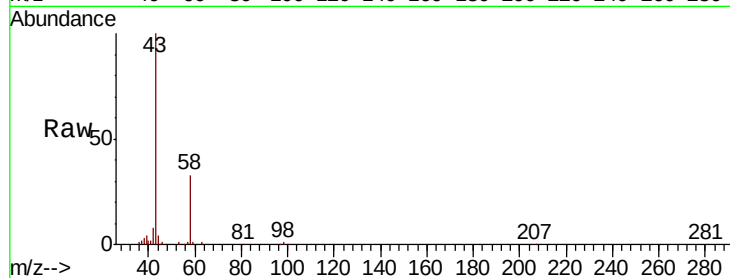
ClientSampleId :

Tot Ion: 43 Resp: 65254

Ion Ratio Lower Upper

43 100

58 30.3 0.0 64.8



#21

2-Butanone

Concen: 7.983 ug/L

RT: 7.17 min Scan# 915

Delta R.T. -0.02 min

Lab File: VW004380.D

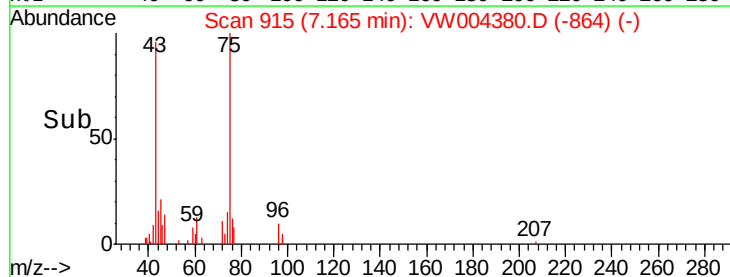
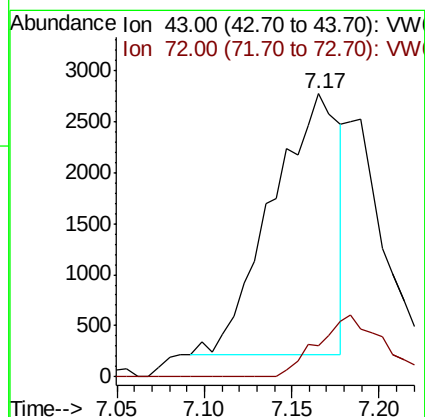
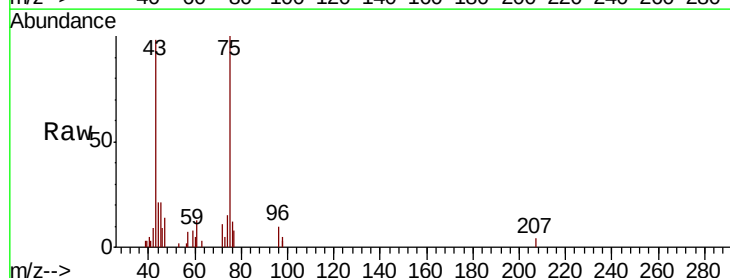
Acq: 01 Aug 2018 16:38

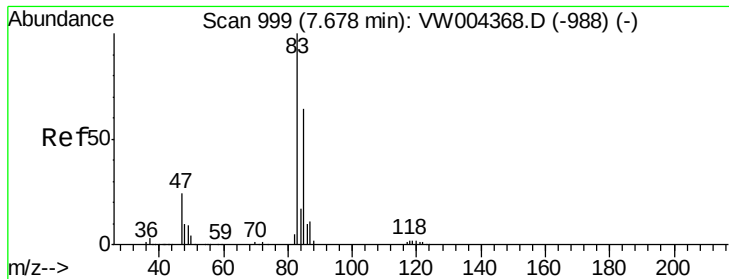
Tgt Ion: 43 Resp: 6861

Ion Ratio Lower Upper

43 100

72 23.2 14.4 43.2





#25

Chloroform

Concen: 2.698 ug/L

RT: 7.68 min Scan# 999

Delta R.T. -0.00 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Instrument :

MSVOA_W

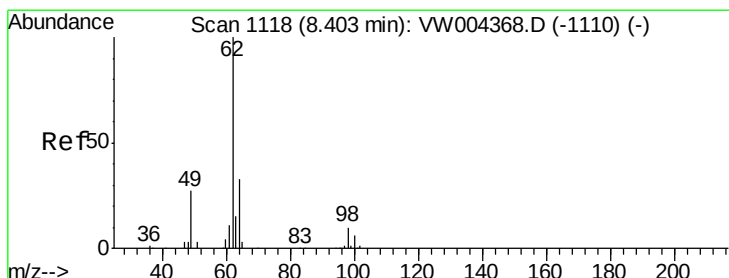
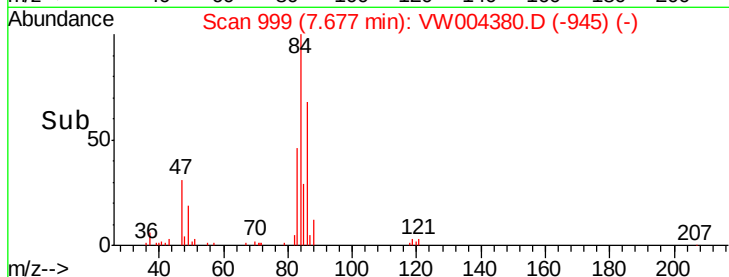
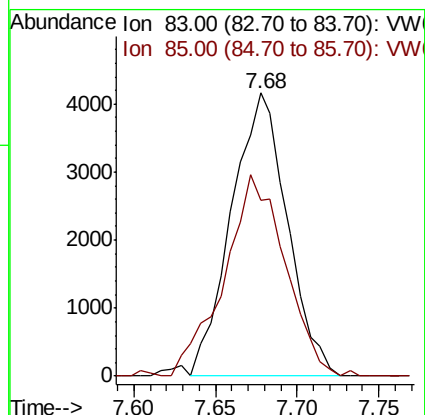
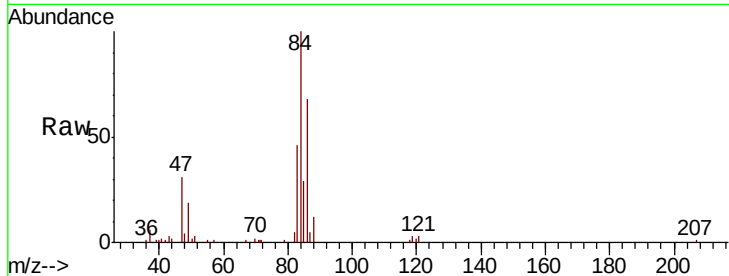
ClientSampleId :

Tot Ion: 83 Resp: 9921

Ion Ratio Lower Upper

83 100

85 77.3 46.2 85.8



#27

1,2-Dichloroethane

Concen: 13.852 ug/L

RT: 8.40 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VW004380.D

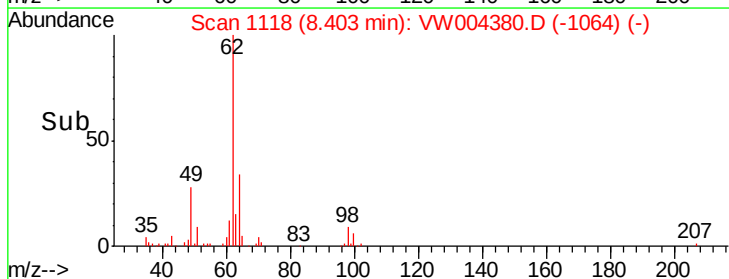
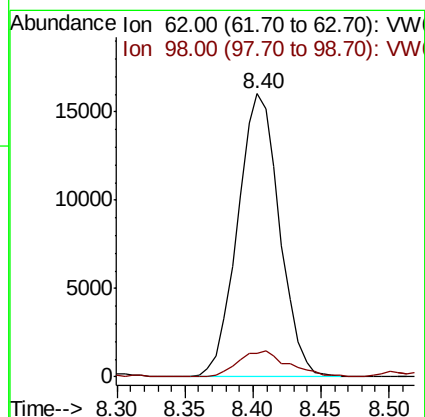
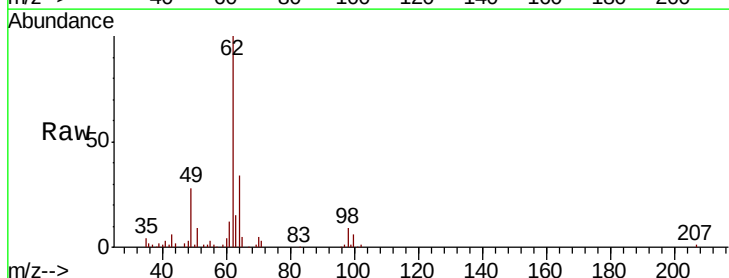
Acq: 01 Aug 2018 16:38

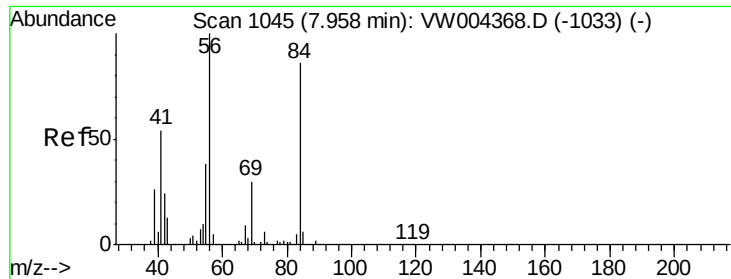
Tgt Ion: 62 Resp: 34406

Ion Ratio Lower Upper

62 100

98 8.5 7.8 11.8

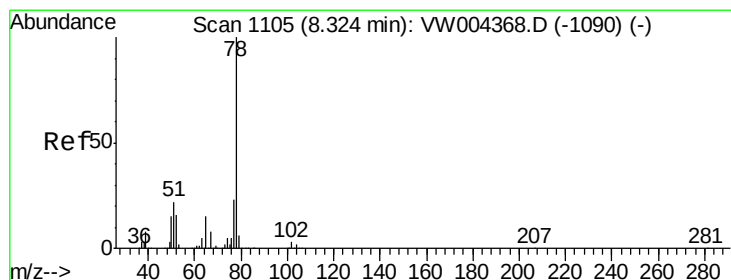
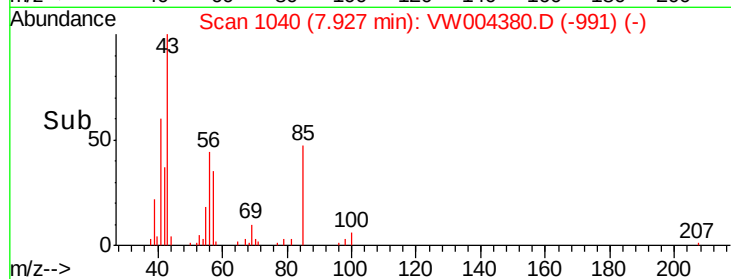
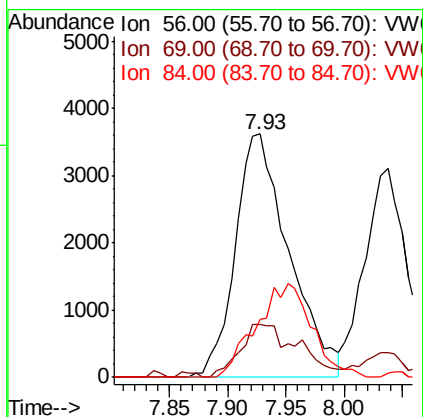
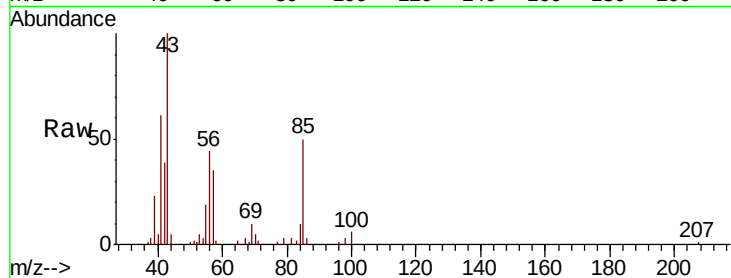




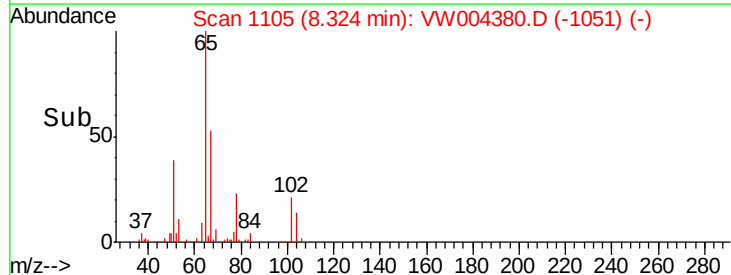
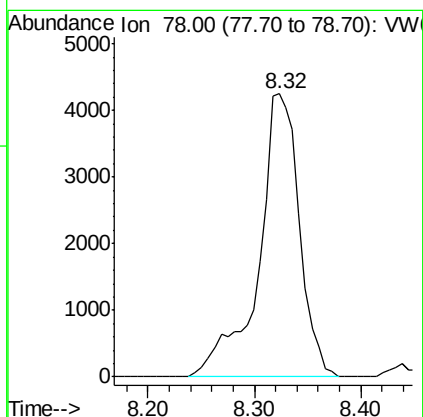
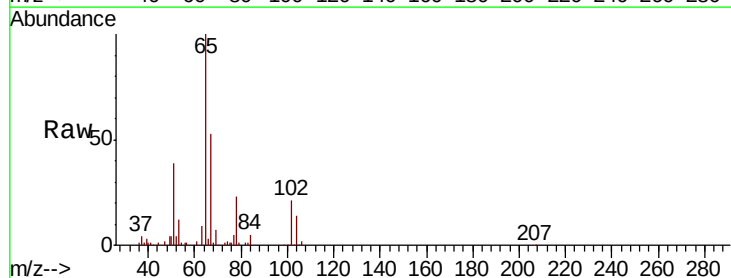
#30
Cyclohexane
Concen: 6.709 ug/L
RT: 7.93 min Scan# 1040
Delta R.T. -0.03 min
Lab File: VW004380.D
Acq: 01 Aug 2018 16:38

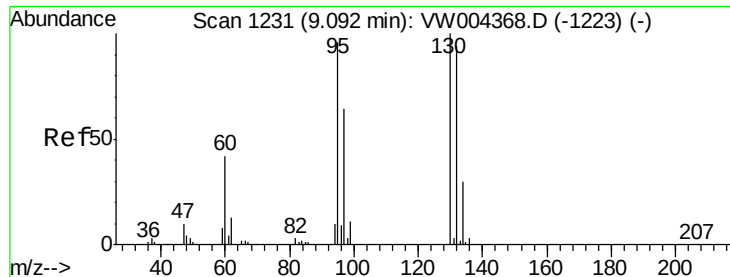
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 56 Resp: 11659
Ion Ratio Lower Upper
56 100
69 11.6 25.7 38.5#
84 39.5 73.8 110.6#



#34
Benzene
Concen: 2.673 ug/L
RT: 8.32 min Scan# 1105
Delta R.T. -0.00 min
Lab File: VW004380.D
Acq: 01 Aug 2018 16:38
Tgt Ion: 78 Resp: 11401





#35

Trichloroethene

Concen: 2.313 ug/L

RT: 9.09 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 95 Resp: 2641

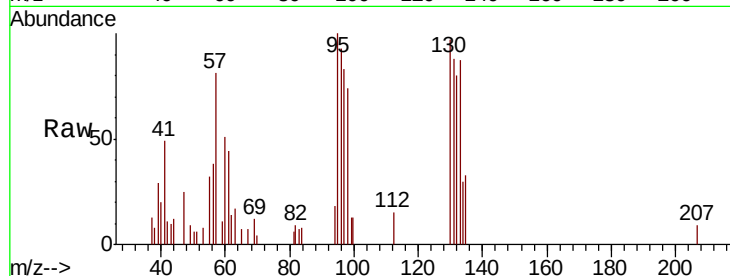
Ion Ratio Lower Upper

95 100

97 87.8 45.6 84.6#

132 98.7 71.2 132.2

130 102.3 73.9 137.3

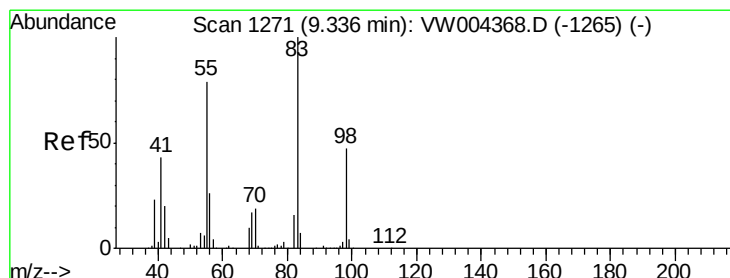
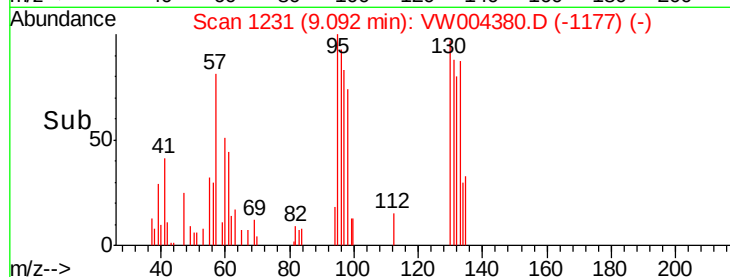
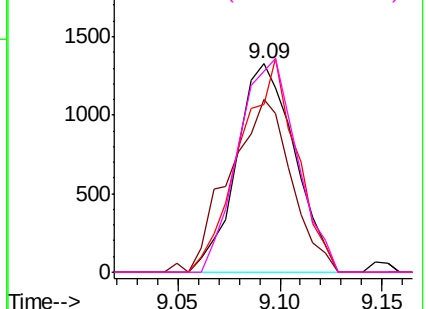


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 21.184 ug/L

RT: 9.34 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

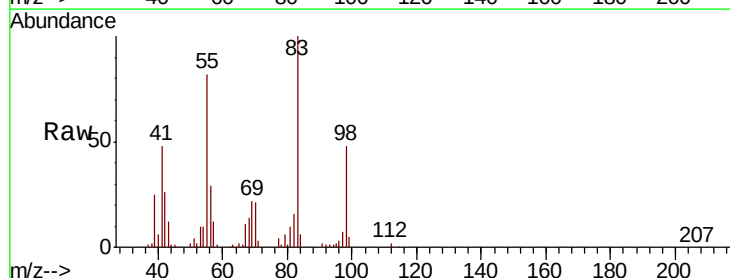
Tgt Ion: 83 Resp: 43148

Ion Ratio Lower Upper

83 100

55 101.1 58.2 87.2#

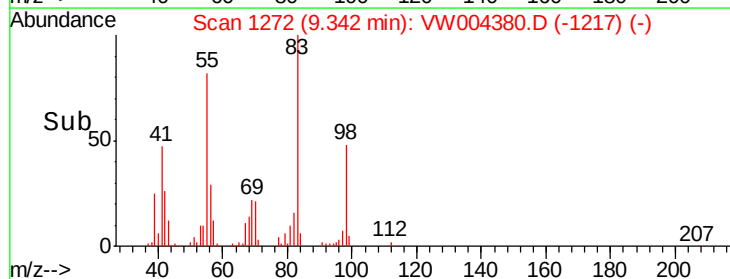
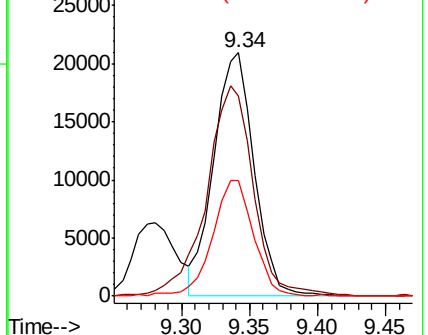
98 47.8 37.7 56.5

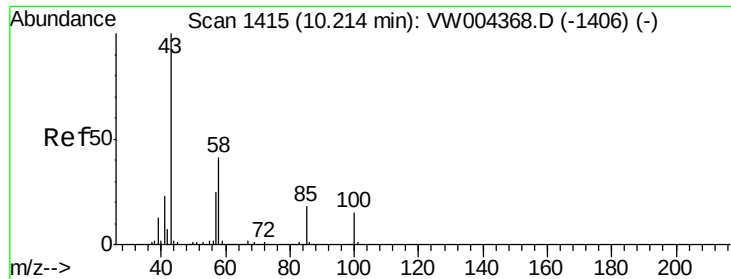


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

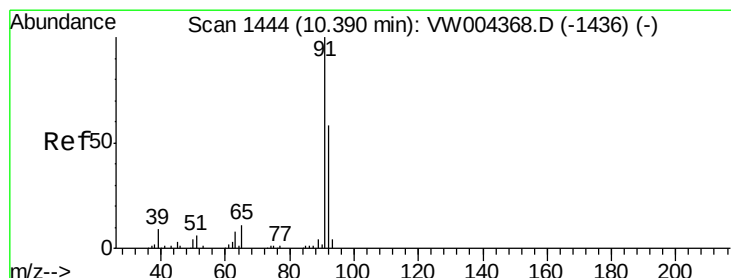
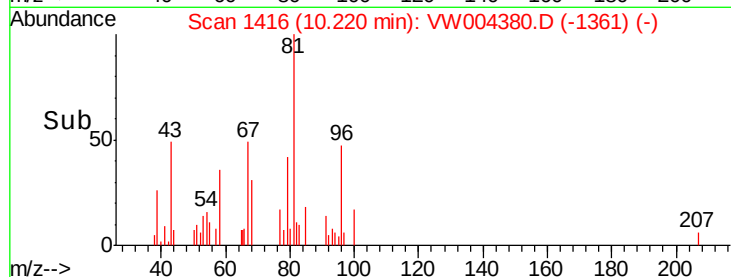
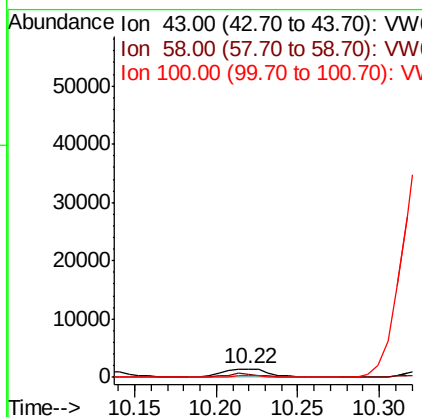
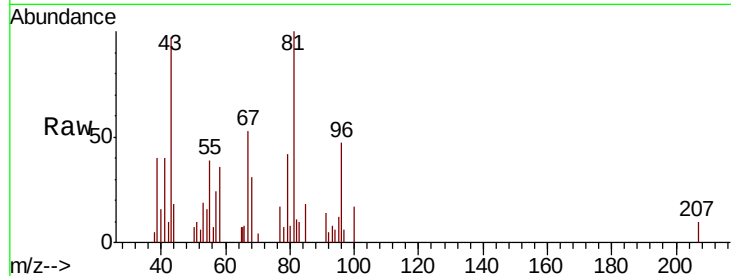




#43
4-Methyl-2-pentanone
Concen: 3.450 ug/L
RT: 10.22 min Scan# 1416
Delta R.T. 0.01 min
Lab File: VW004380.D
Acq: 01 Aug 2018 16:38

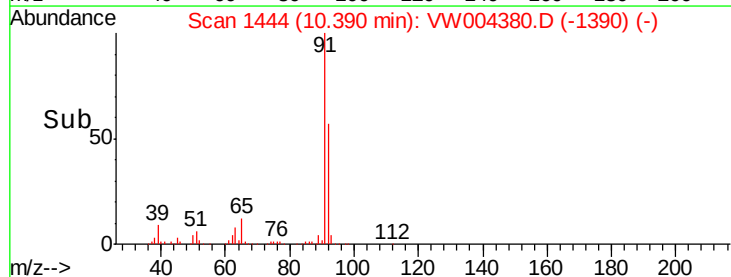
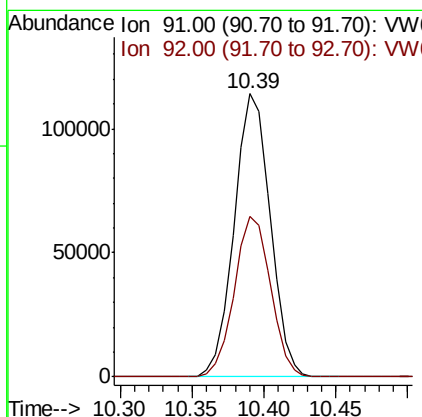
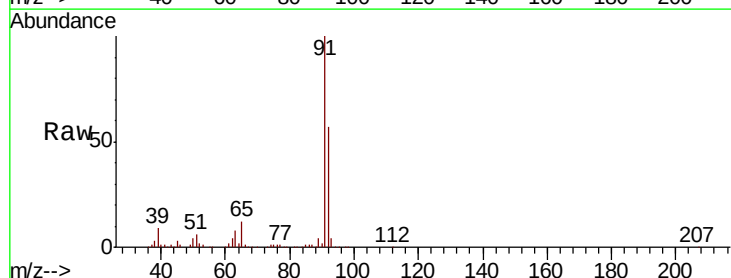
Instrument :
MSVOA_W
ClientSampleId :

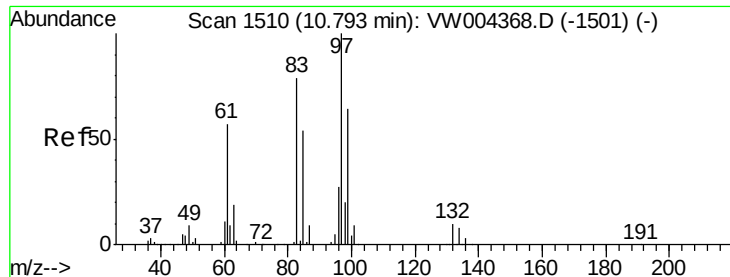
Tot Ion: 43 Resp: 2989
Ion Ratio Lower Upper
43 100
58 34.0 32.3 48.5
100 12.8 13.9 20.9#



#44
Toluene
Concen: 43.446 ug/L
RT: 10.39 min Scan# 1444
Delta R.T. -0.00 min
Lab File: VW004380.D
Acq: 01 Aug 2018 16:38

Tgt Ion: 91 Resp: 199298
Ion Ratio Lower Upper
91 100
92 56.9 40.9 75.9

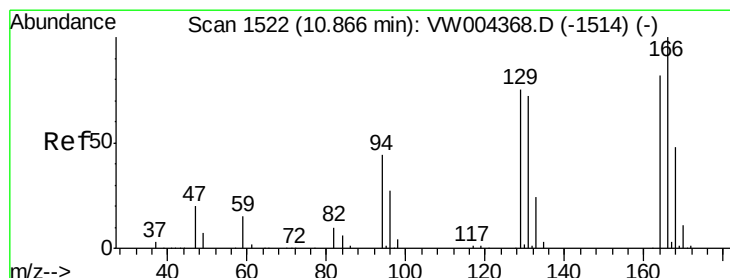
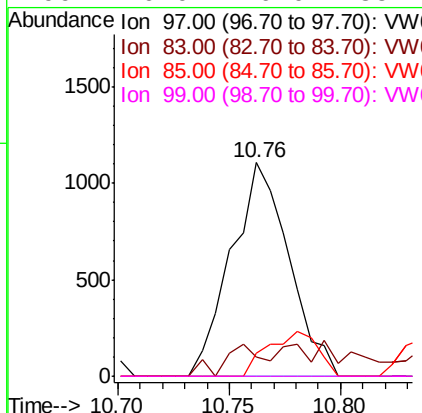
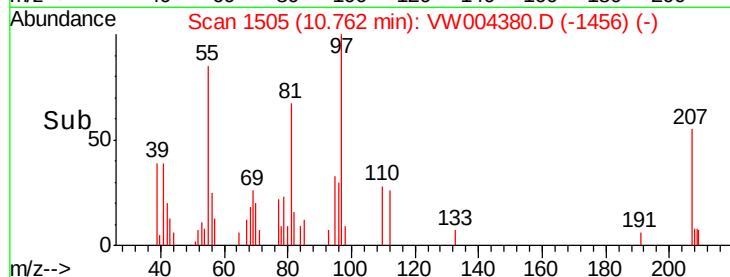
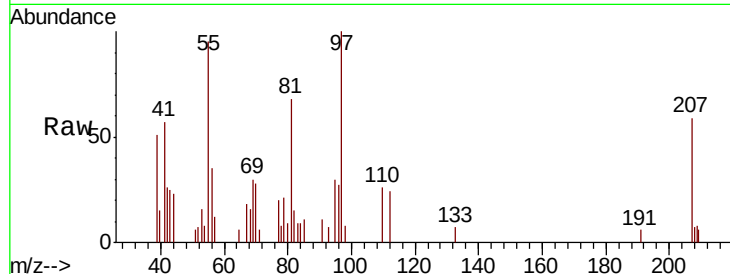




#46
 1,1,2-Trichloroethane
 Concen: 2.263 ug/L
 RT: 10.76 min Scan# 1505
 Delta R.T. -0.03 min
 Lab File: VW004380.D
 Acq: 01 Aug 2018 16:38

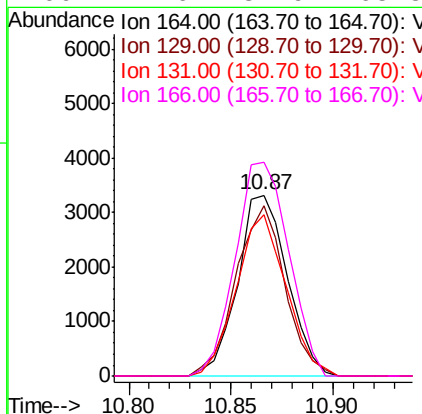
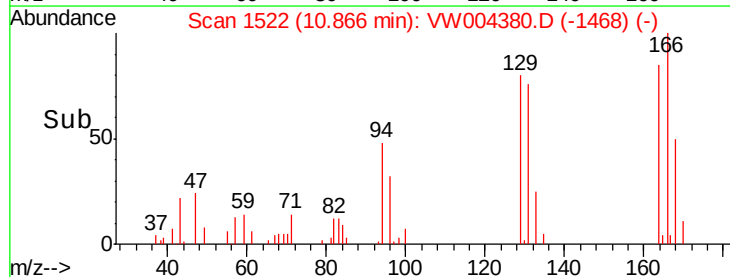
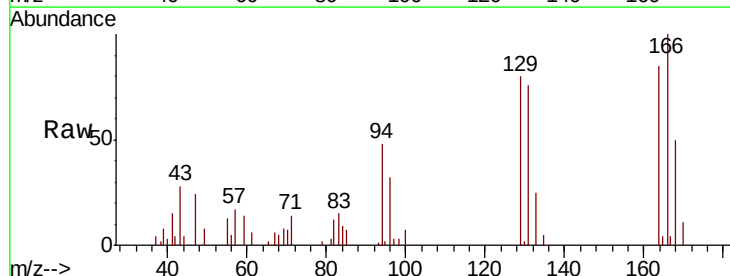
Instrument :
 MSVOA_W
 ClientSampleId :

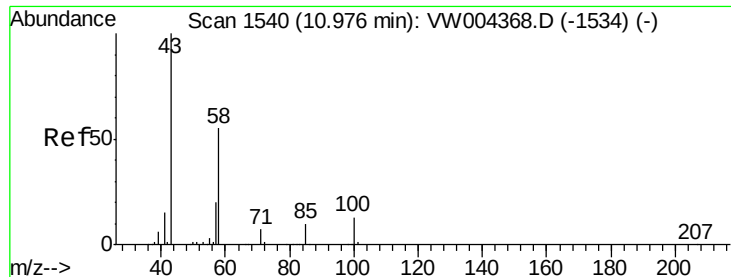
Tot Ion: 97 Resp: 1997
 Ion Ratio Lower Upper
 97 100
 83 9.1 59.4 110.2#
 85 10.9 39.0 72.4#
 99 0.0 46.0 85.4#



#47
 Tetrachloroethene
 Concen: 5.747 ug/L
 RT: 10.87 min Scan# 1522
 Delta R.T. -0.00 min
 Lab File: VW004380.D
 Acq: 01 Aug 2018 16:38

Tgt Ion: 164 Resp: 5635
 Ion Ratio Lower Upper
 164 100
 129 94.1 63.7 118.3
 131 89.6 61.6 114.4
 166 122.6 87.9 163.3

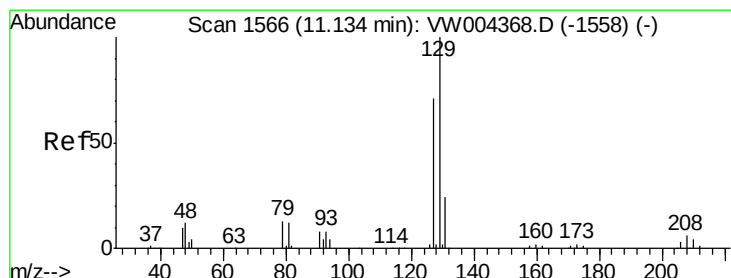
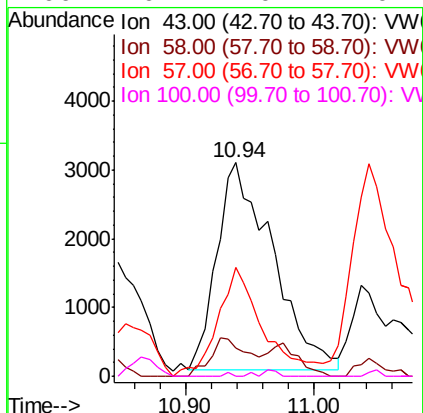
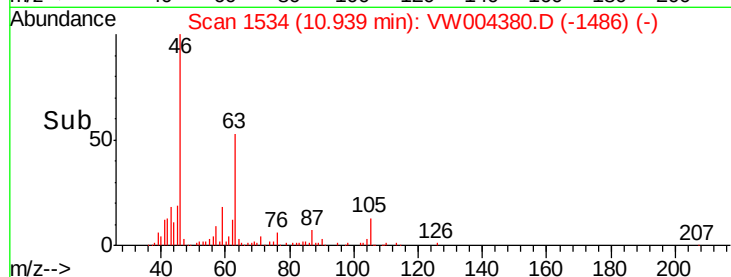
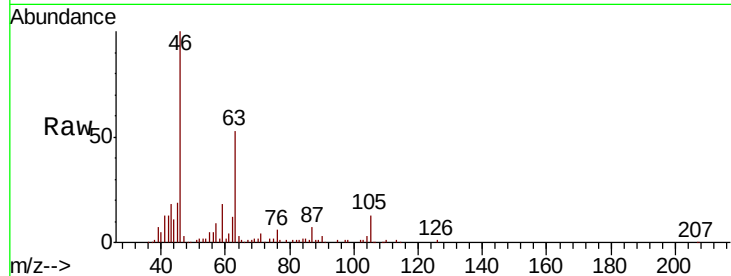




#49
2-Hexanone
Concen: 14.009 ug/L
RT: 10.94 min Scan# 1534
Delta R.T. -0.04 min
Lab File: VW004380.D
Acq: 01 Aug 2018 16:38

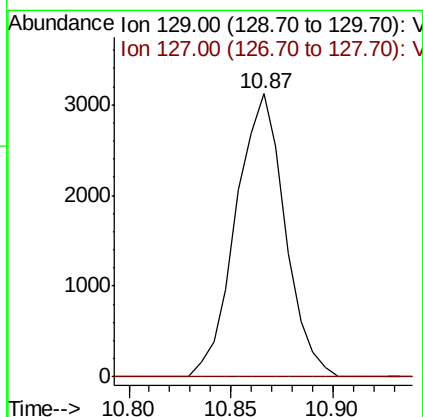
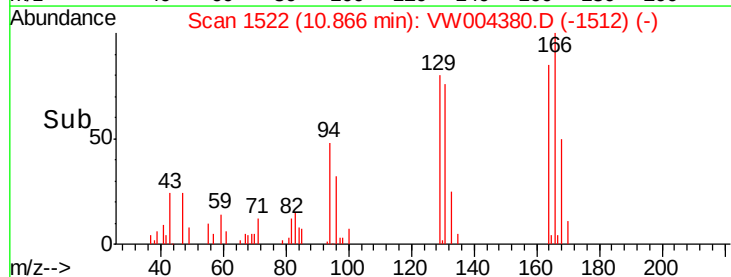
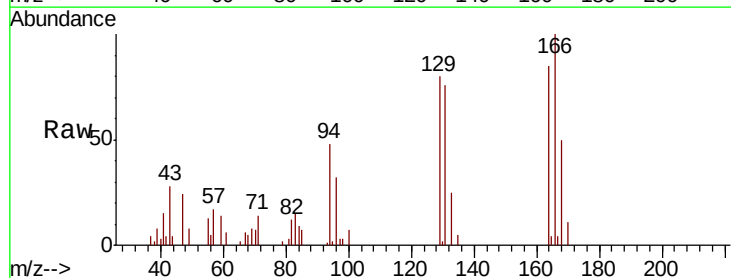
Instrument :
MSVOA_W
ClientSampled :

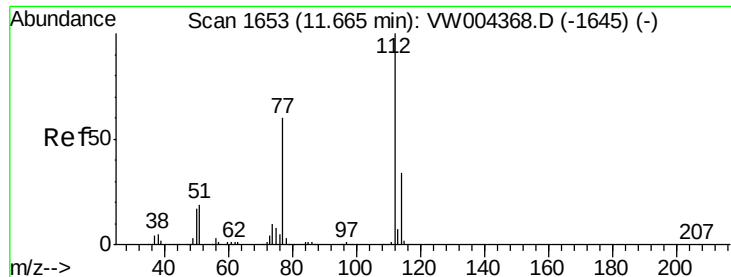
Tot Ion: 43 Resp: 9020
Ion Ratio Lower Upper
43 100
58 12.6 44.0 66.0#
57 35.4 16.0 24.0#
100 0.2 10.7 16.1#



#50
Dibromochloromethane
Concen: 4.860 ug/L
RT: 10.87 min Scan# 1522
Delta R.T. -0.27 min
Lab File: VW004380.D
Acq: 01 Aug 2018 16:38

Tgt Ion: 129 Resp: 5225
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.2#





#52

Chlorobenzene

Concen: 55.393 ug/L

RT: 11.66 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Instrument :

MSVOA_W

ClientSampleId :

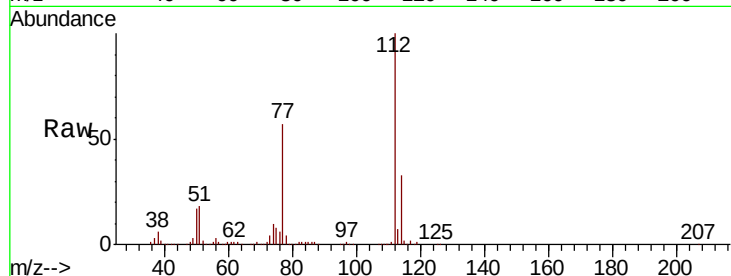
Tot Ion:112 Resp: 169139

Ion Ratio Lower Upper

112 100

77 56.8 42.9 64.3

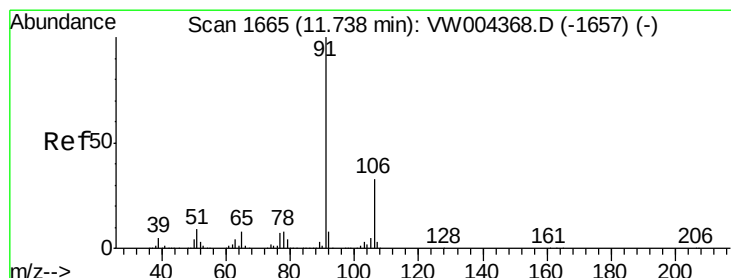
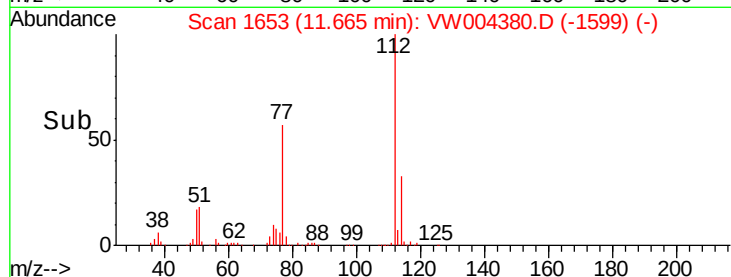
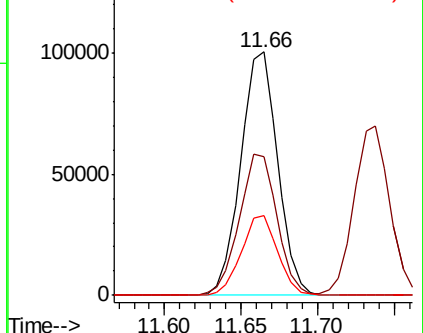
114 32.8 22.0 41.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 251.694 ug/L

RT: 11.74 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VW004380.D

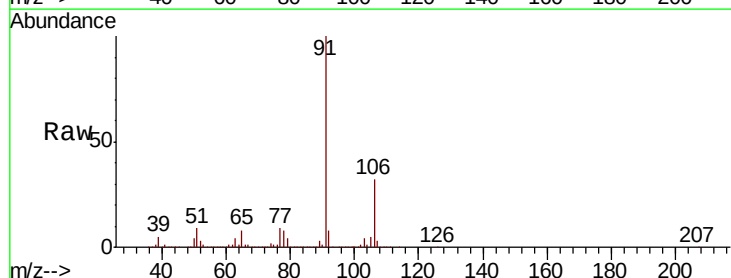
Acq: 01 Aug 2018 16:38

Tgt Ion: 91 Resp: 1306183

Ion Ratio Lower Upper

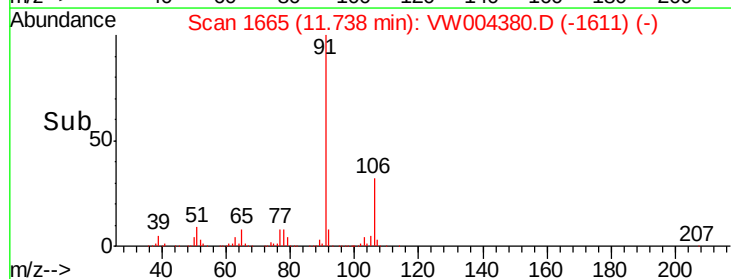
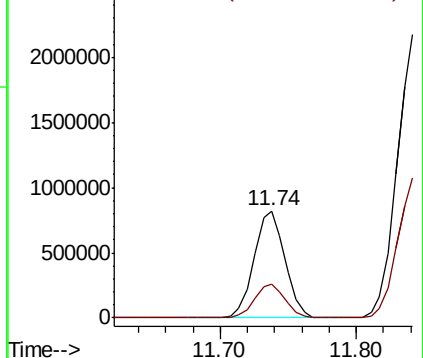
91 100

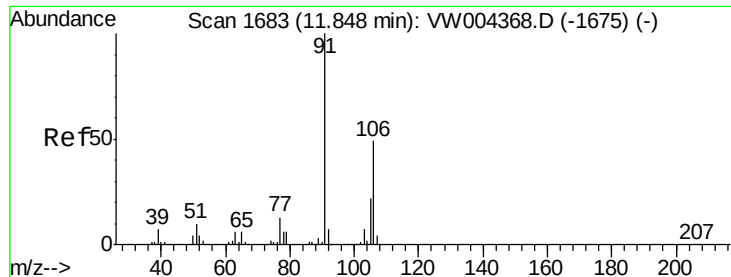
106 31.7 20.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 1040.721 ug/L

RT: 11.84 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Instrument :

MSVOA_W

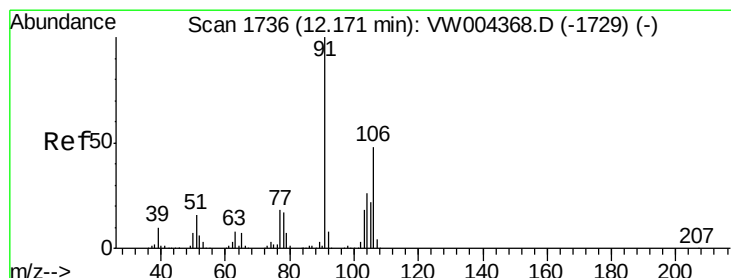
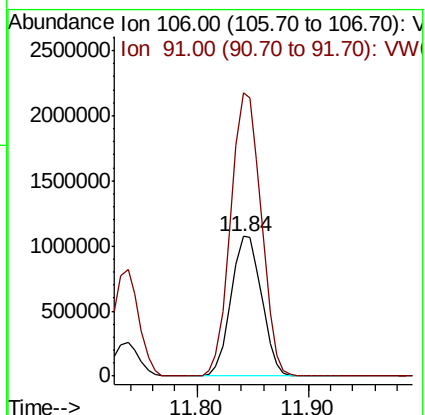
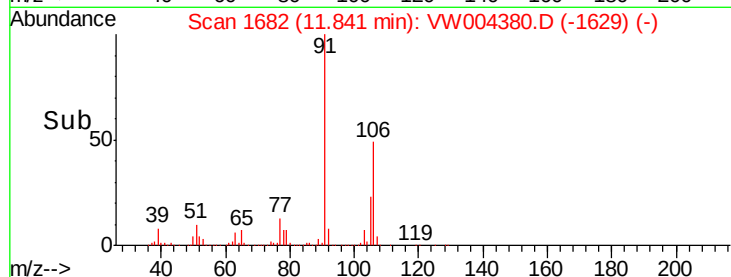
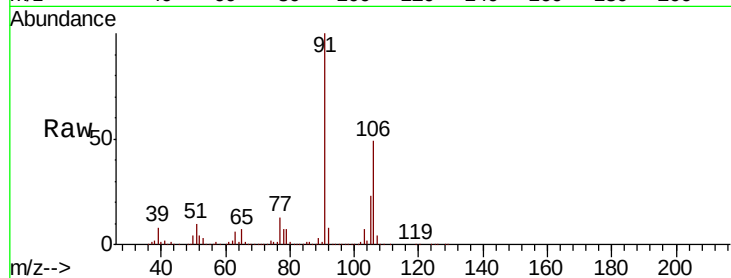
ClientSampled :

Tot Ion:106 Resp: 2042970

Ion Ratio Lower Upper

106 100

91 202.4 139.2 258.6



#55

o-xylene

Concen: 1095.596 ug/L

RT: 12.17 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VW004380.D

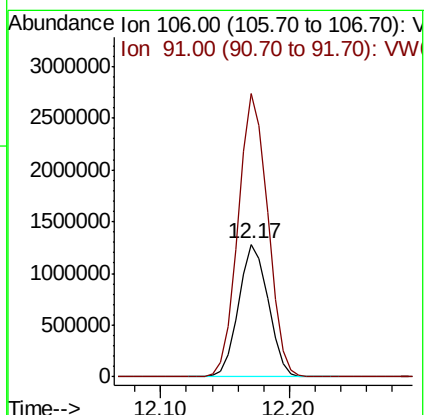
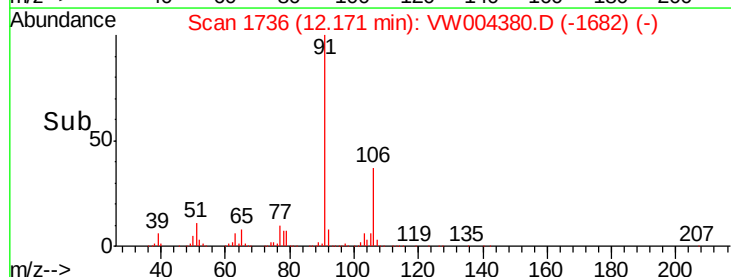
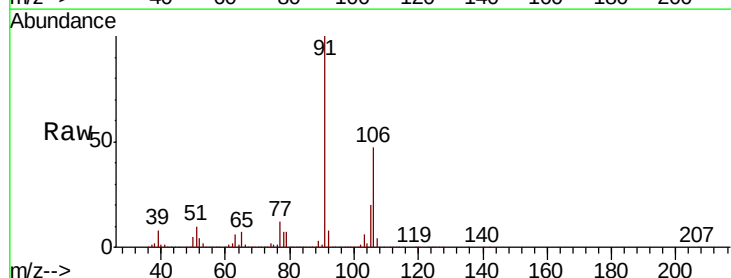
Acq: 01 Aug 2018 16:38

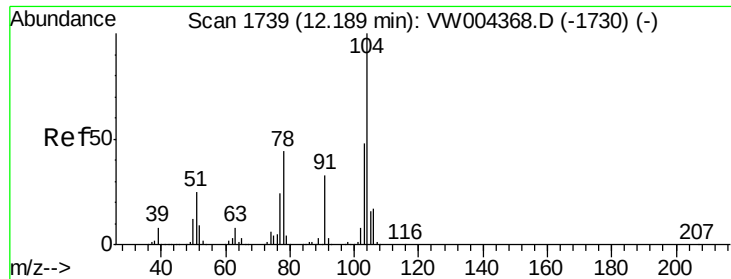
Tgt Ion:106 Resp: 2031317

Ion Ratio Lower Upper

106 100

91 213.1 143.4 266.4





#56

Stvrene

Concen: 32.386 ug/L

RT: 12.17 min Scan# 1736

Delta R.T. -0.02 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Instrument :

MSVOA_W

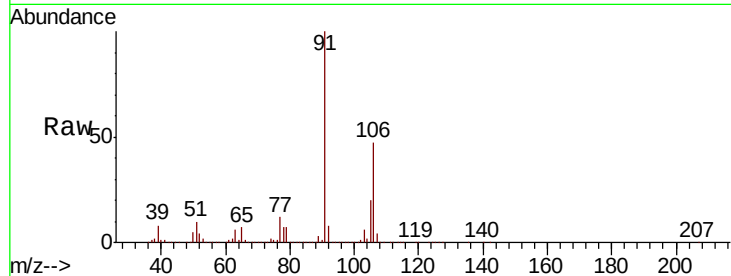
ClientSampleId :

Tot Ion:104 Resp: 103942

Ion Ratio Lower Upper

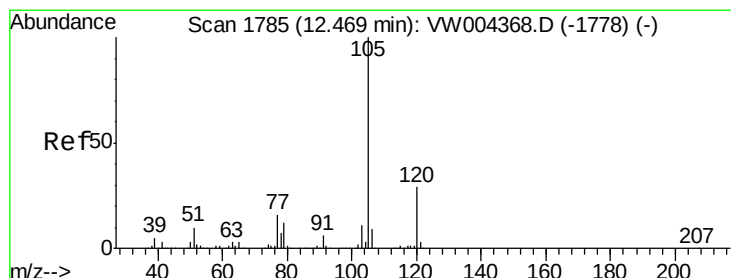
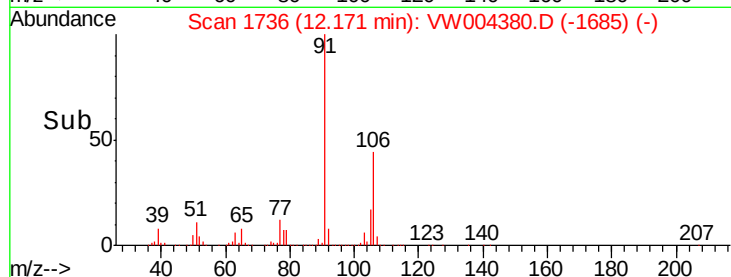
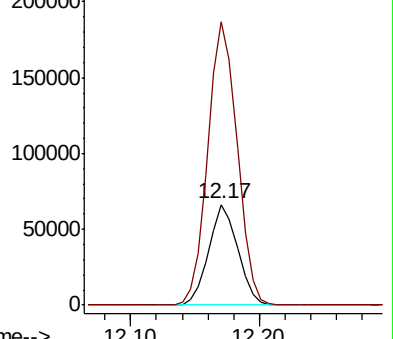
104 100

78 282.0 31.7 58.9#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 7.207 ug/L

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

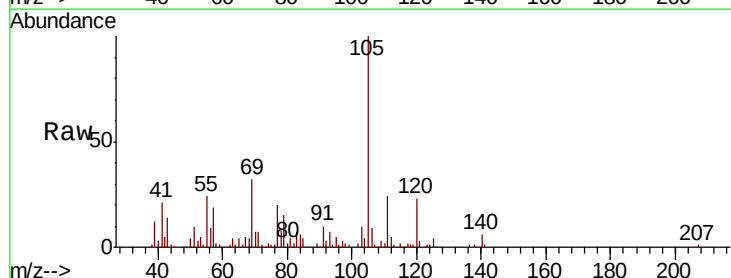
Tgt Ion:105 Resp: 37465

Ion Ratio Lower Upper

105 100

120 26.2 21.8 32.8

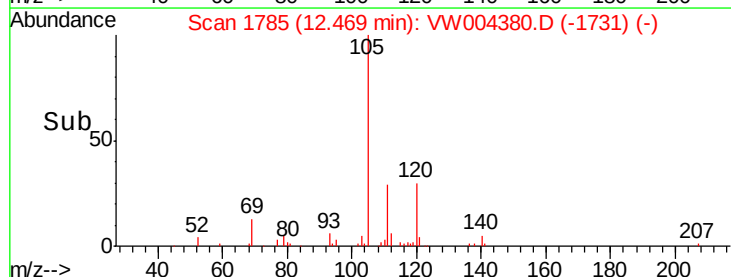
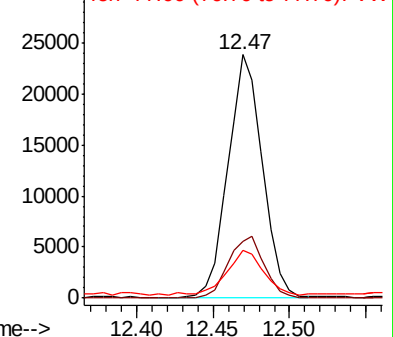
77 19.1 11.8 17.8#

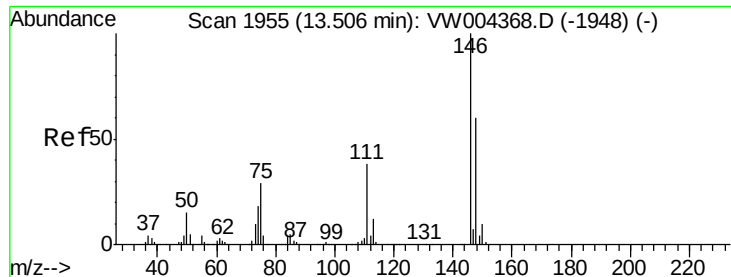


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#63

1,3-Dichlorobenzene

Concen: 153101.063 ug/L

RT: 13.51 min Scan# 1956

Delta R.T. 0.01 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Instrument :

MSVOA_W

ClientSampled :

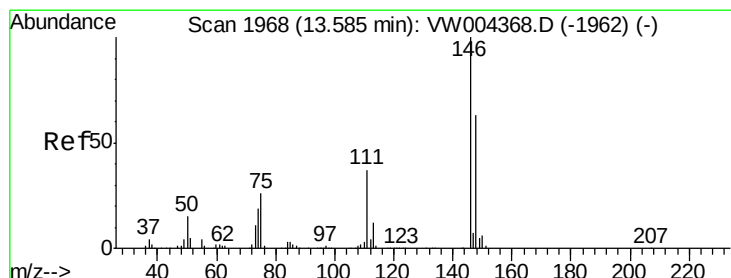
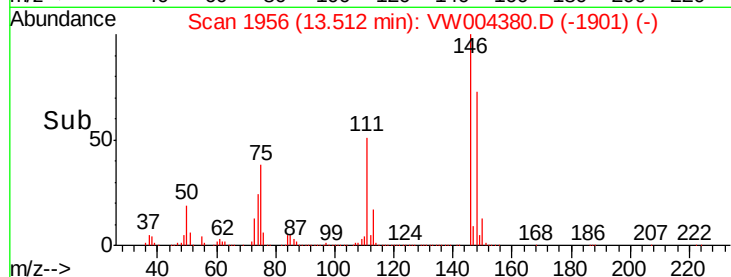
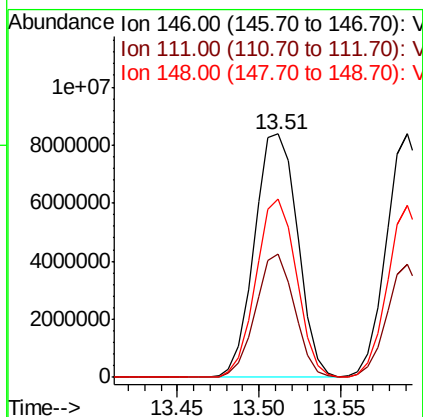
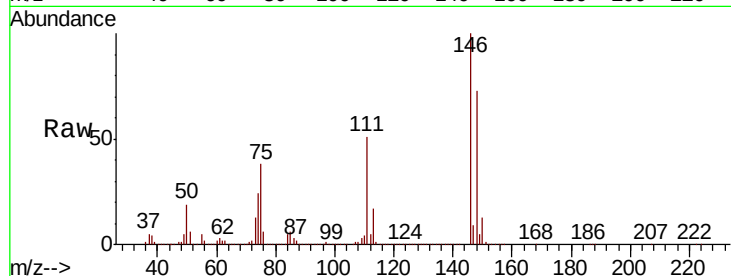
Tot Ion:146 Resp:15435149

Ion Ratio Lower Upper

146 100

111 50.6 28.6 53.2

148 73.5 47.7 88.5



#64

1,4-Dichlorobenzene

Concen: 139070.815 ug/L

RT: 13.59 min Scan# 1969

Delta R.T. 0.01 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

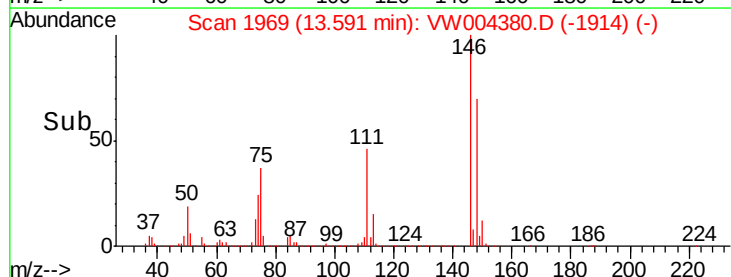
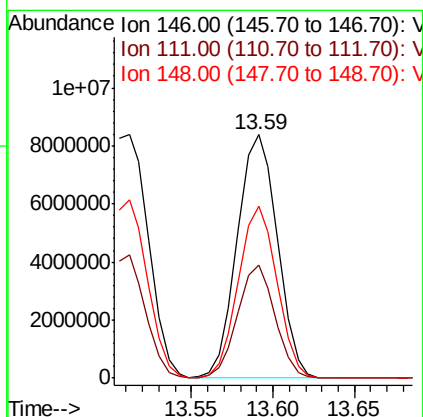
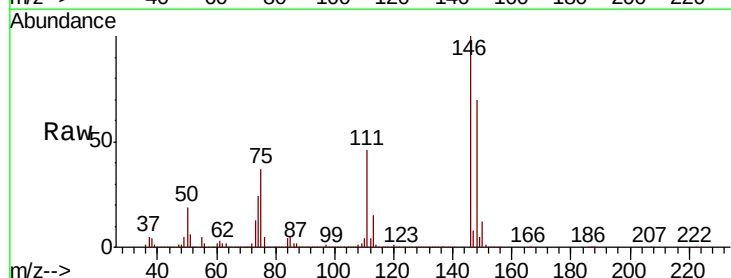
Tgt Ion:146 Resp:14425079

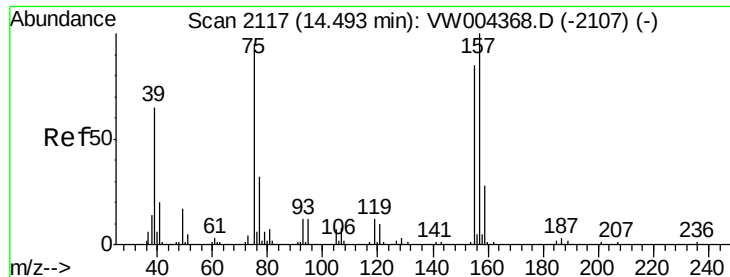
Ion Ratio Lower Upper

146 100

111 46.4 25.4 47.2

148 70.5 42.8 79.6





#66

1,2-Dibromo-3-chloropropane

Concen: 264.824 ug/L

RT: 14.48 min Scan# 2114

Delta R.T. -0.02 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Instrument :

MSVOA_W

ClientSampleId :

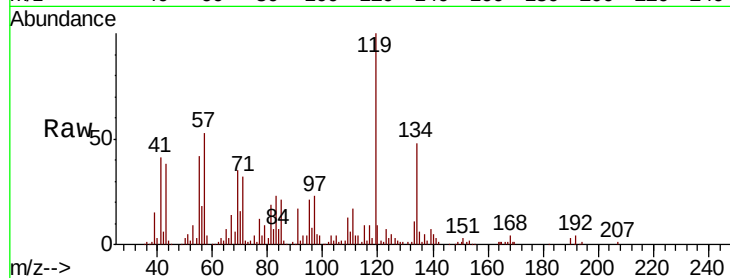
Tot Ion: 75 Resp: 2487

Ion Ratio Lower Upper

75 100

157 0.0 88.6 132.8#

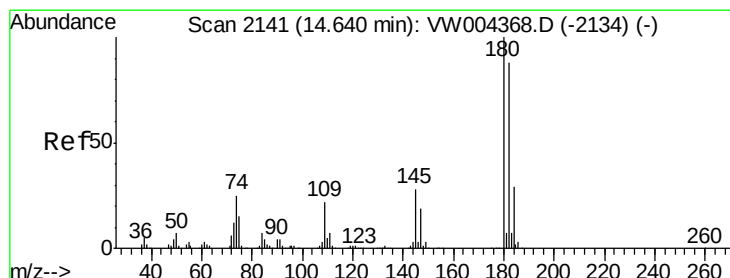
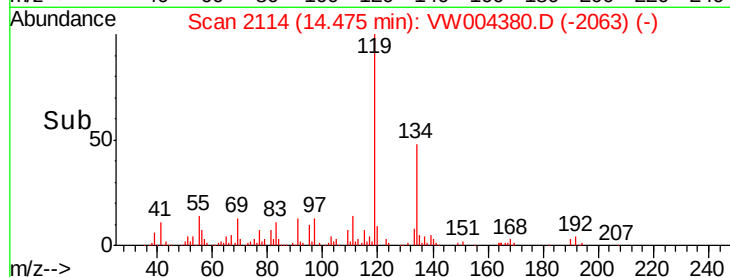
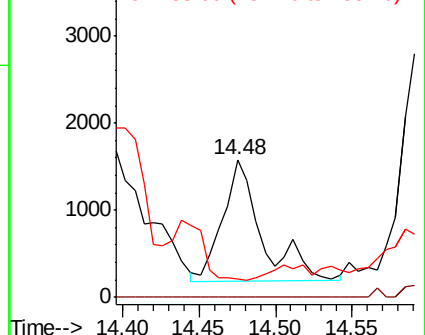
155 13.7 71.8 107.6#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V



#67

1,3,5-Trichlorobenzene

Concen: 2077.677 ug/L

RT: 14.64 min Scan# 2141

Delta R.T. -0.00 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Tgt Ion: 180 Resp: 166065

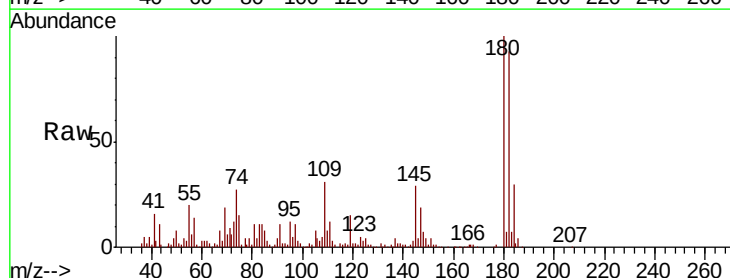
Ion Ratio Lower Upper

180 100

182 94.9 77.7 116.5

184 30.7 24.6 37.0

145 29.2 23.6 35.4

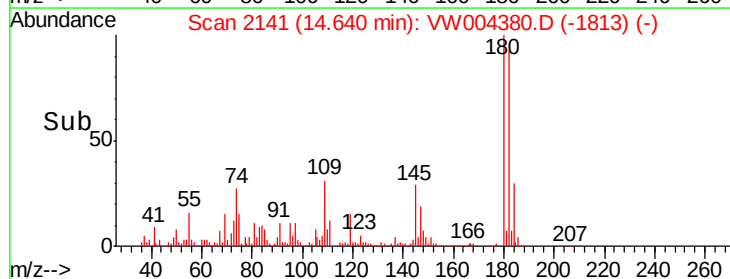
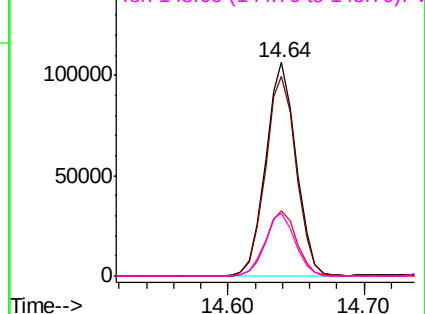


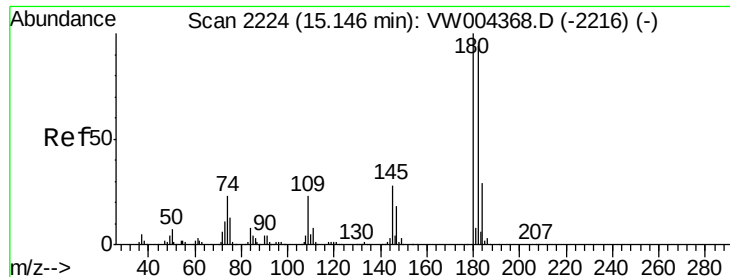
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

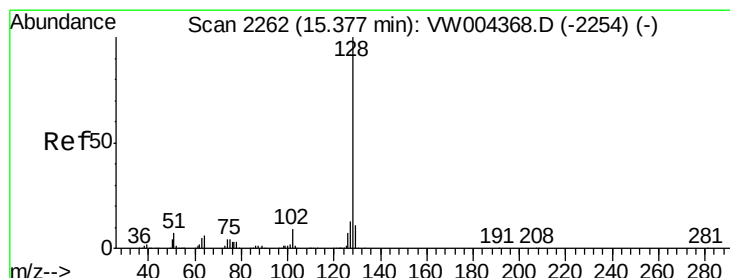
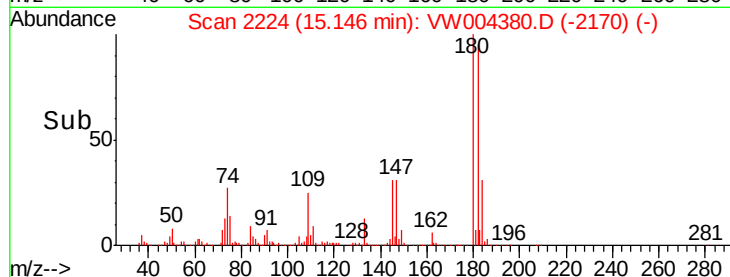
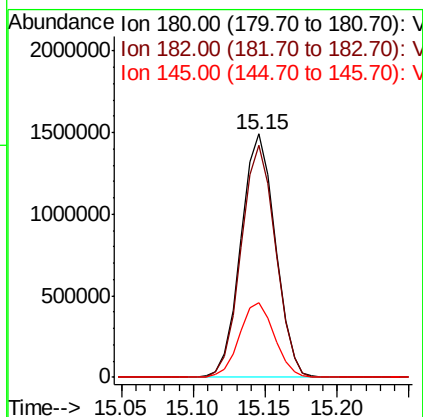
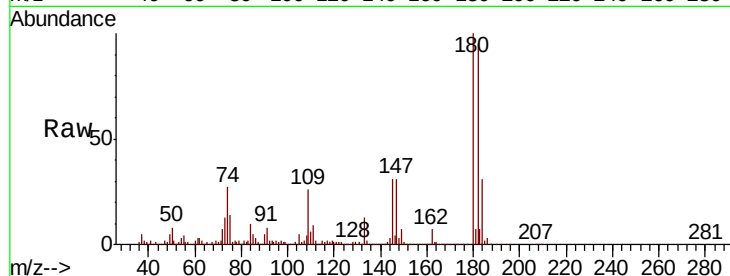




#68
 1,2,4-trichlorobenzene
 Concen: 36344.113 ug/L
 RT: 15.15 min Scan# 2224
 Delta R.T. -0.00 min
 Lab File: VW004380.D
 Acq: 01 Aug 2018 16:38

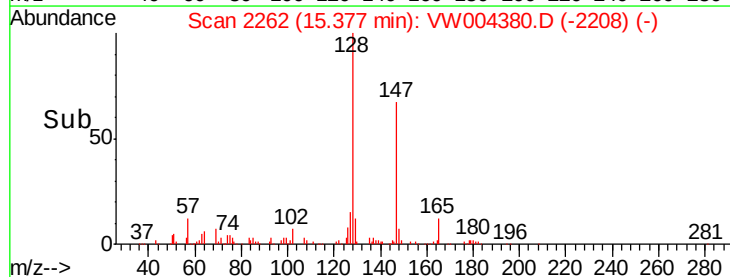
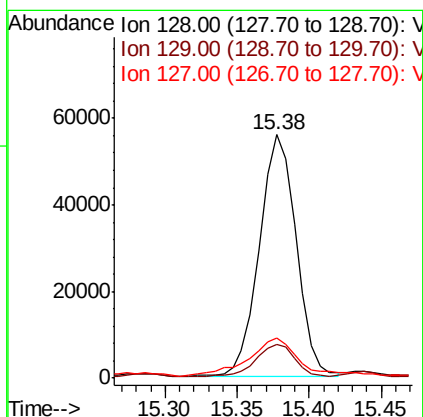
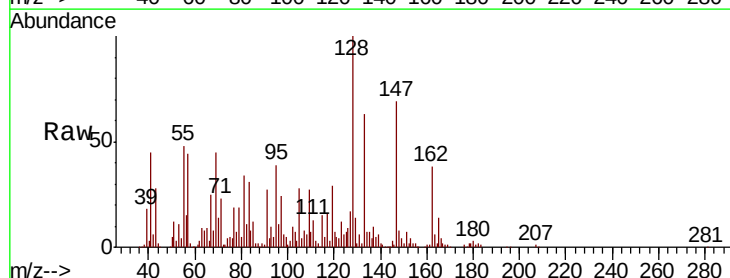
Instrument :
 MSVOA_W
 ClientSampleId :

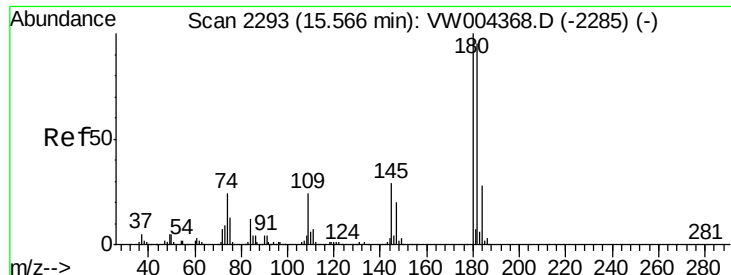
Tot Ion:180 Resp: 2467023
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.5 113.3
 145 31.4 24.2 36.2



#69
 Naphthalene
 Concen: 649.200 ug/L
 RT: 15.38 min Scan# 2262
 Delta R.T. -0.00 min
 Lab File: VW004380.D
 Acq: 01 Aug 2018 16:38

Tgt Ion:128 Resp: 99591
 Ion Ratio Lower Upper
 128 100
 129 14.1 8.9 13.3#
 127 21.2 10.4 15.6#





#70

1,2,3-Trichlorobenzene

Concen: 14347.771 ug/L

RT: 15.57 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VW004380.D

Acq: 01 Aug 2018 16:38

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:180 Resp: 901184

Ion Ratio Lower Upper

180 100

182 96.3 77.0 115.4

145 32.4 25.4 38.0

