

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062718\  
 Data File : VW003624.D  
 Acq On : 27 Jun 2018 19:50  
 Operator : SY/AP  
 Sample : J3048-15  
 Misc : 5.59G/5ML/MSVOA W/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jun 28 05:34:39 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 05:18:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 133355   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 219622   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 187706   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 68787    | 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   | 58609    | 40.58 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.16% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 51366    | 37.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.28% |          |
| 50) Toluene-d8              | 10.33 | 98   | 172612   | 31.90 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 63.80% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 54616    | 28.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 57.04% |          |

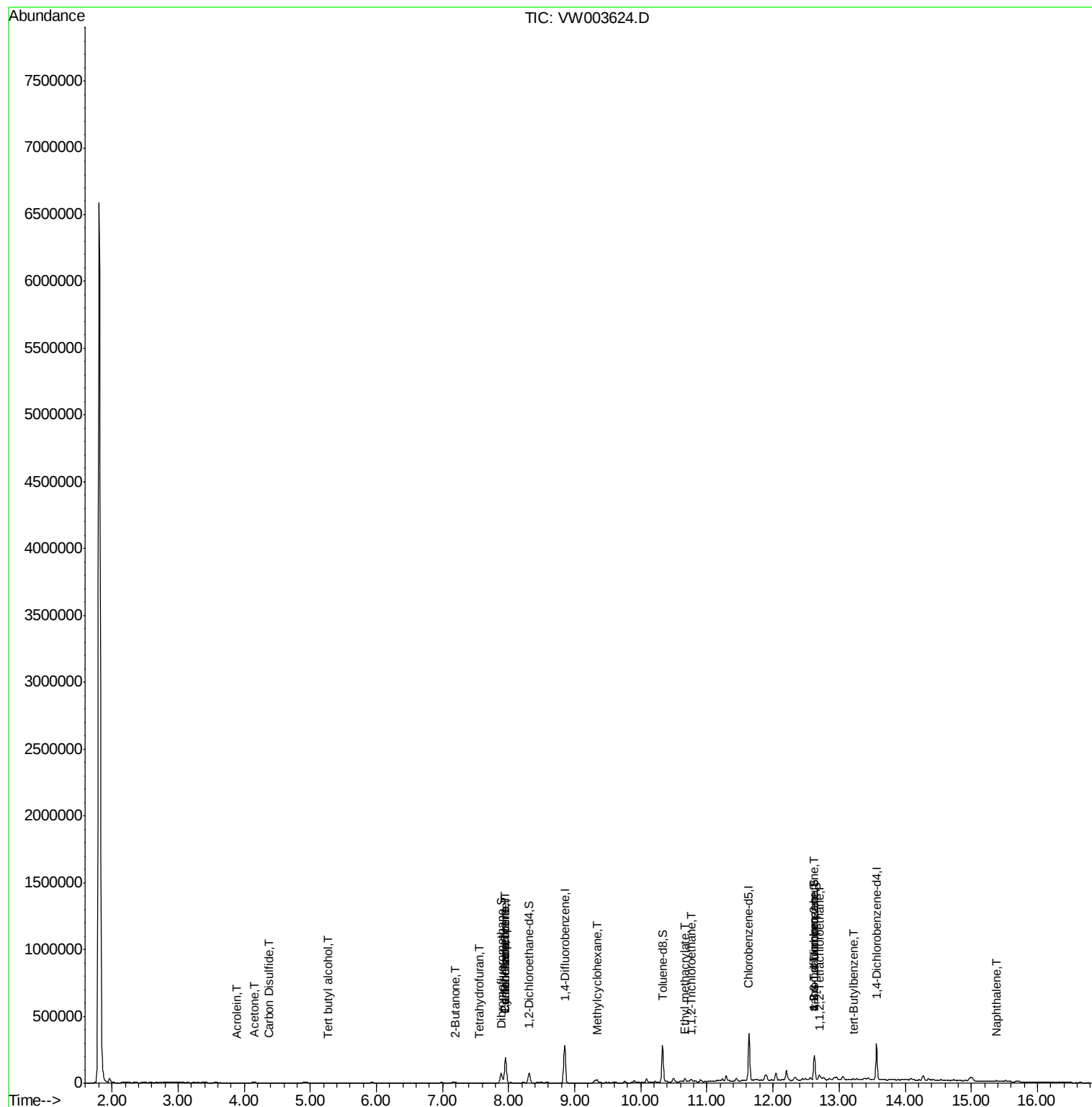
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.26  | 59   | 254      | 3.279   | ug/l # | 84     |
| 13) Acrolein                   | 3.90  | 56   | 174      | 1.571   | ug/l # | 15     |
| 16) Acetone                    | 4.15  | 43   | 21028    | 69.413  | ug/l   | 90     |
| 17) Carbon Disulfide           | 4.38  | 76   | 5182     | 1.452   | ug/l # | 90     |
| 25) 2-Butanone                 | 7.20  | 43   | 6509     | 17.279  | ug/l # | 79     |
| 29) Tetrahydrofuran            | 7.56  | 42   | 511      | 2.220   | ug/l # | 78     |
| 31) Cyclohexane                | 7.95  | 56   | 6781     | 2.905   | ug/l # | 64     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 11254    | 5.306   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 13756    | 6.612   | ug/l # | 16     |
| 39) Methylcyclohexane          | 9.34  | 83   | 10048    | 4.094   | ug/l   | 95     |
| 55) 1,1,2-Trichloroethane      | 10.76 | 97   | 5334     | 4.967   | ug/l # | 19     |
| 56) Ethyl methacrylate         | 10.67 | 69   | 2244     | 1.721   | ug/l # | 1      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.69 | 83   | 871      | 1.076   | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 29555    | 50.259  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 29555    | 115.650 | ug/l # | 10     |
| 83) tert-Butylbenzene          | 13.21 | 119  | 5045     | 1.474   | ug/l   | 86     |
| 95) Naphthalene                | 15.38 | 128  | 3669     | 1.537   | ug/l # | 85     |

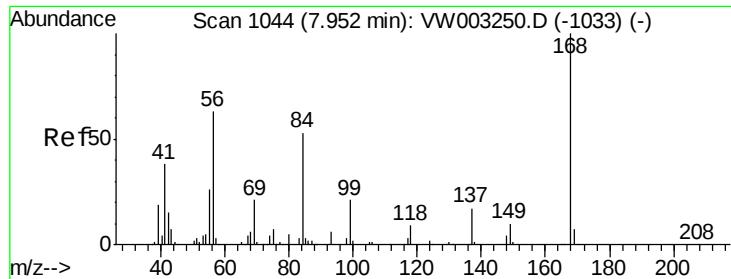
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Jun 16 05:18:54 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

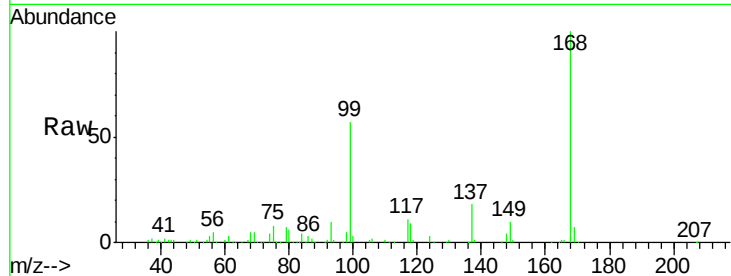
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 133355

Ion Ratio Lower Upper

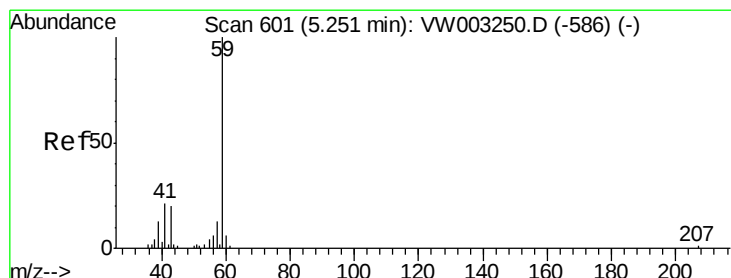
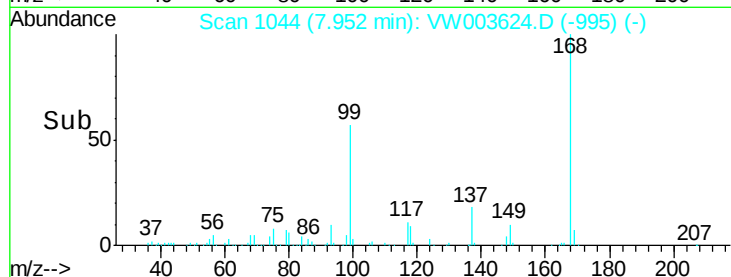
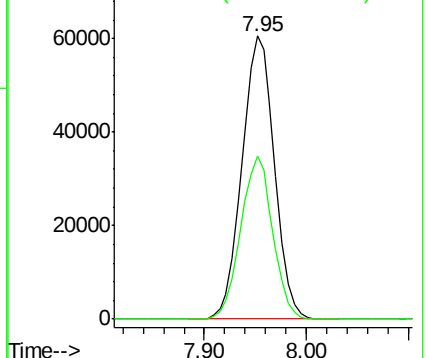
168 100

99 57.4 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 3.279 ug/l

RT: 5.26 min Scan# 602

Delta R.T. 0.01 min

Lab File: VW003624.D

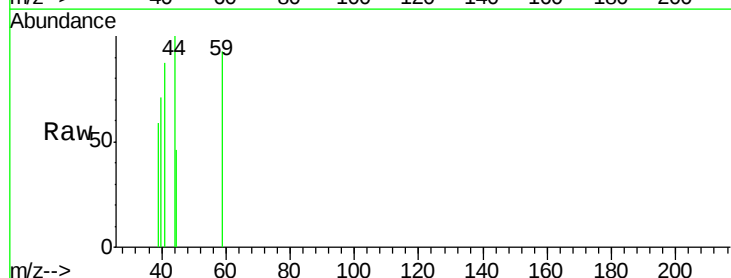
Acq: 27 Jun 2018 19:50

Tgt Ion: 59 Resp: 254

Ion Ratio Lower Upper

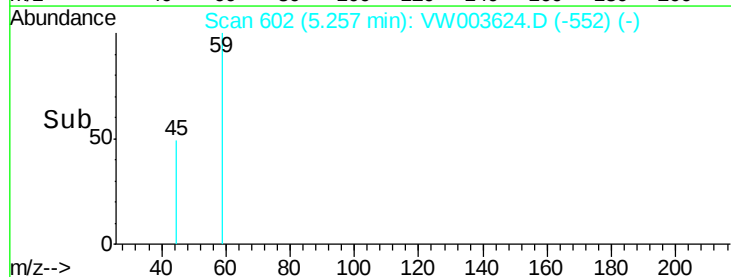
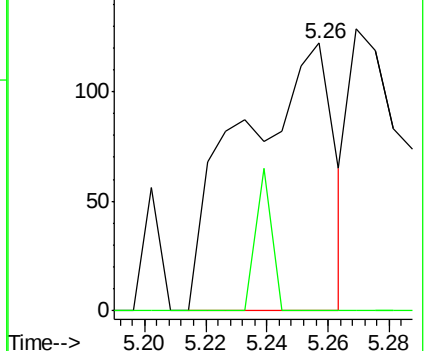
59 100

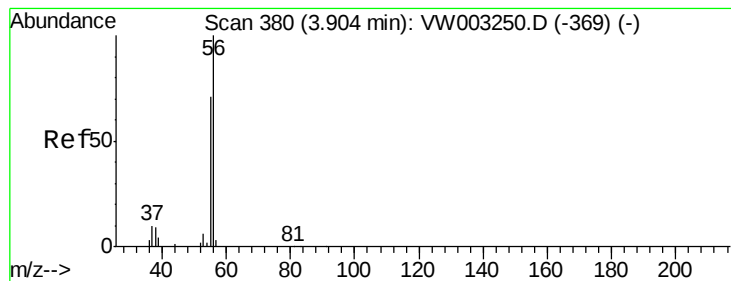
57 0.0 4.2 6.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.571 ug/l

RT: 3.90 min Scan# 379

Delta R.T. -0.01 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

Instrument :

MSVOA\_W

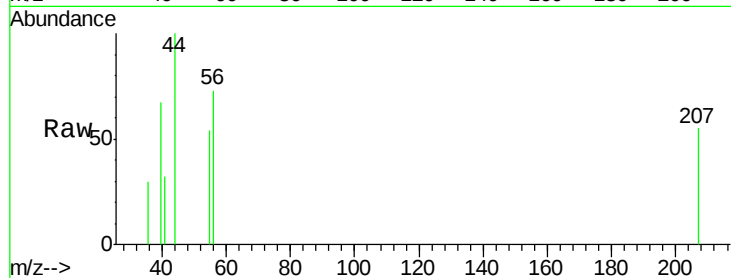
ClientSampled :

Tot Ion: 56 Resp: 174

Ion Ratio Lower Upper

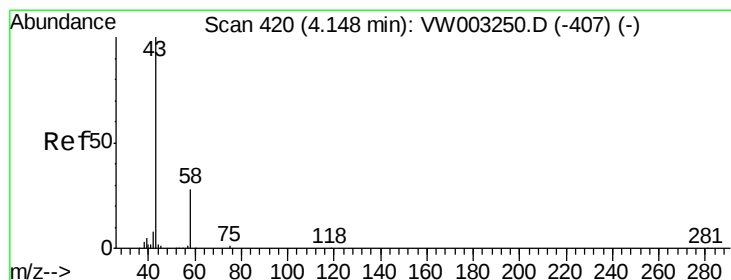
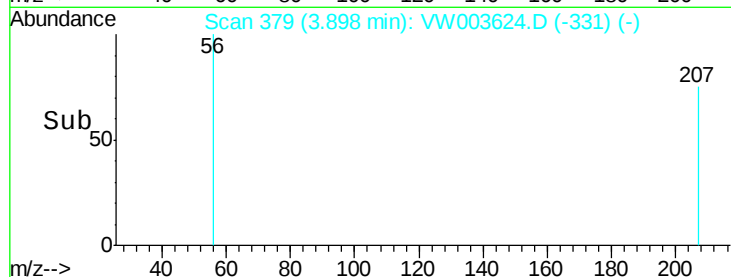
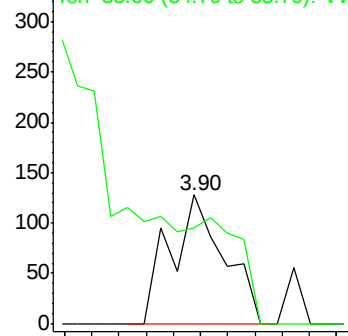
56 100

55 0.0 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 69.413 ug/l

RT: 4.15 min Scan# 421

Delta R.T. 0.01 min

Lab File: VW003624.D

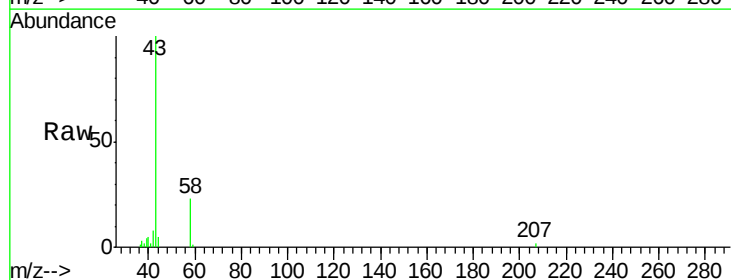
Acq: 27 Jun 2018 19:50

Tgt Ion: 43 Resp: 21028

Ion Ratio Lower Upper

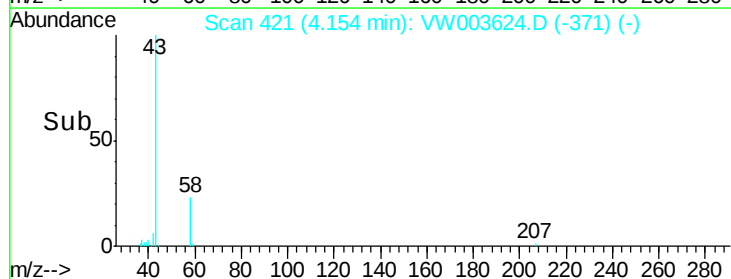
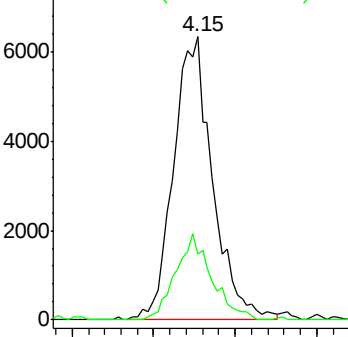
43 100

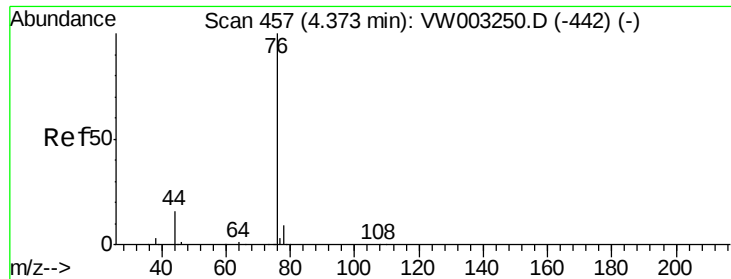
58 23.2 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 1.452 ug/l

RT: 4.38 min Scan# 458

Delta R.T. 0.01 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

Instrument :

MSVOA\_W

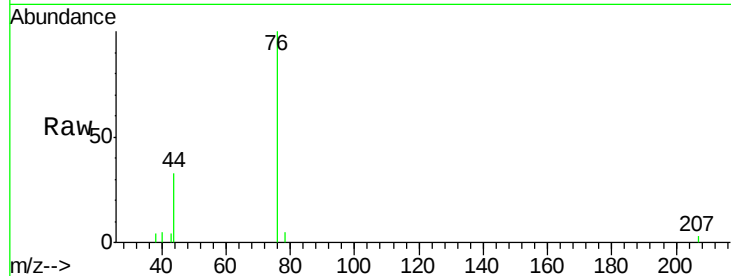
ClientSampled :

Tot Ion: 76 Resp: 5182

Ion Ratio Lower Upper

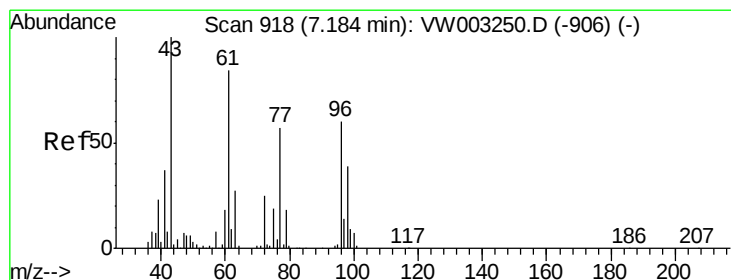
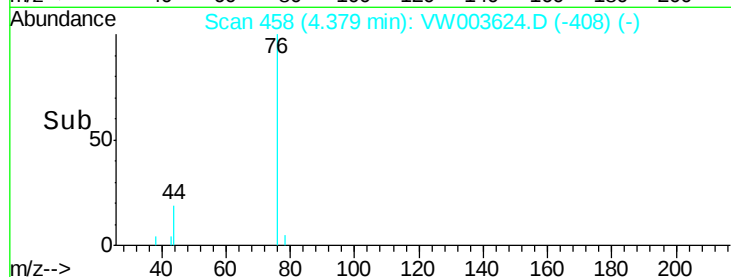
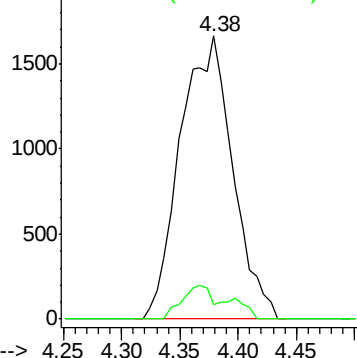
76 100

78 5.3 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#25

2-Butanone

Concen: 17.279 ug/l

RT: 7.20 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW003624.D

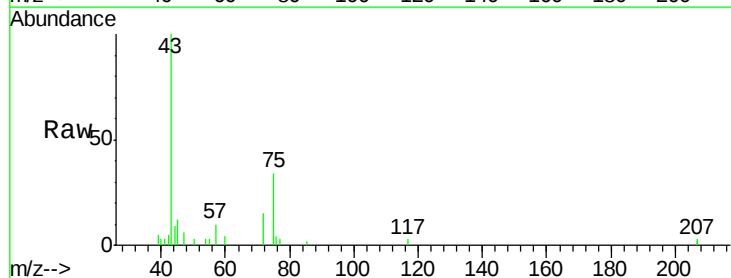
Acq: 27 Jun 2018 19:50

Tgt Ion: 43 Resp: 6509

Ion Ratio Lower Upper

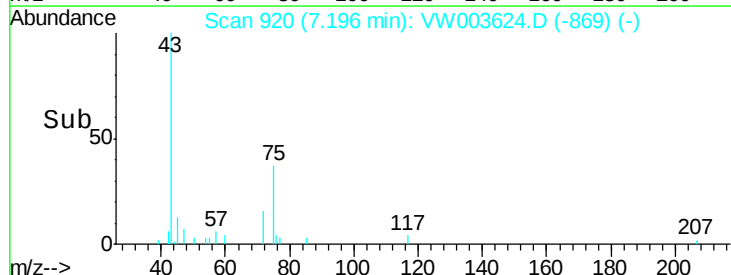
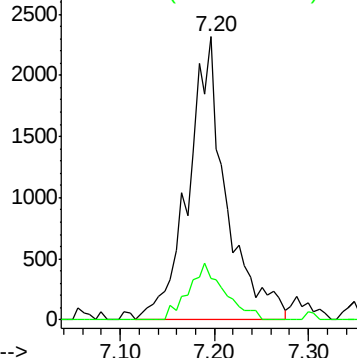
43 100

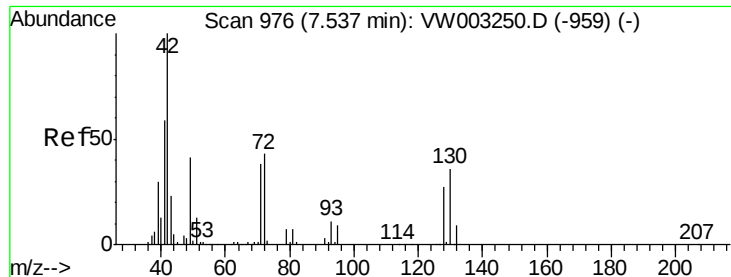
72 14.9 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

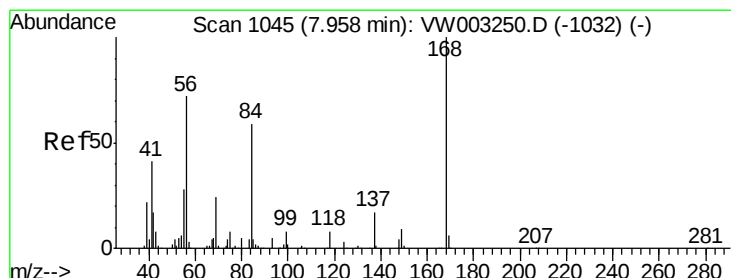
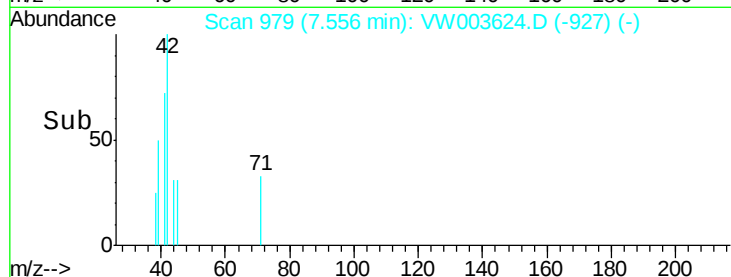
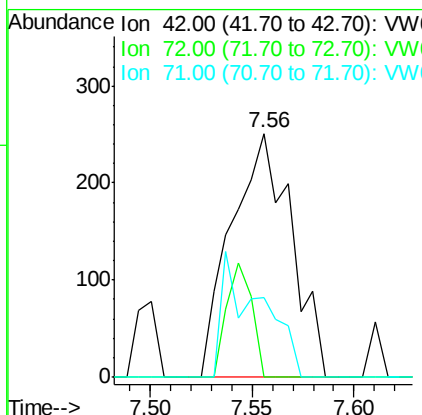
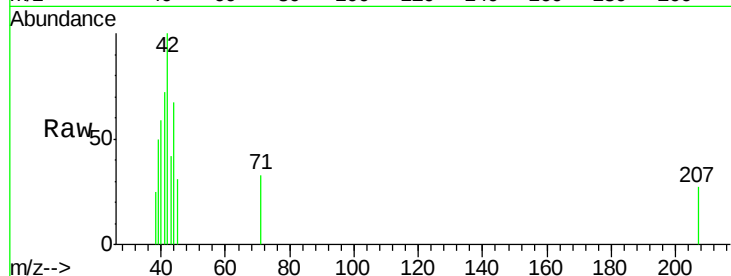




#29  
Tetrahydrofuran  
Concen: 2.220 ug/l  
RT: 7.56 min Scan# 979  
Delta R.T. 0.02 min  
Lab File: VW003624.D  
Acq: 27 Jun 2018 19:50

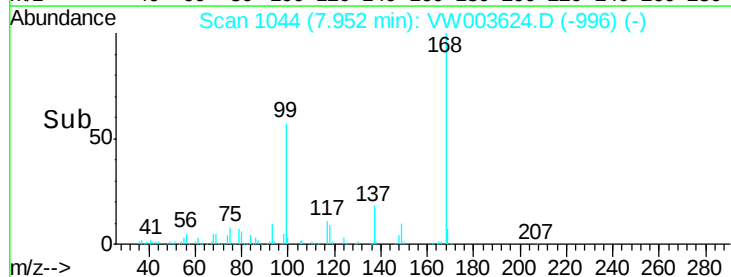
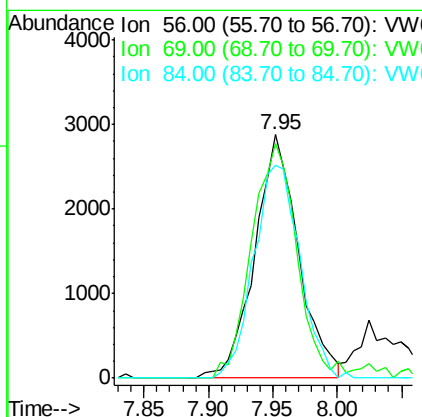
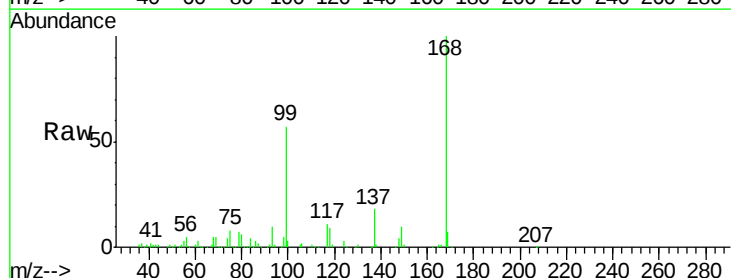
Instrument :  
MSVOA\_W  
ClientSampleId :

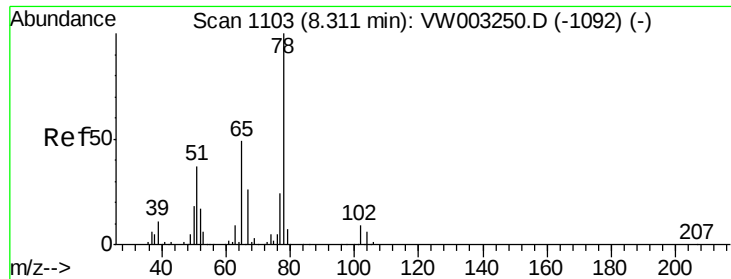
Tot Ion: 42 Resp: 511  
Ion Ratio Lower Upper  
42 100  
72 19.4 32.4 48.6#  
71 33.3 31.2 46.8



#31  
Cyclohexane  
Concen: 2.905 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.01 min  
Lab File: VW003624.D  
Acq: 27 Jun 2018 19:50

Tgt Ion: 56 Resp: 6781  
Ion Ratio Lower Upper  
56 100  
69 96.5 26.3 39.5#  
84 87.4 65.7 98.5





#33

1,2-Dichloroethane-d4

Concen: 40.576 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

Instrument :

MSVOA\_W

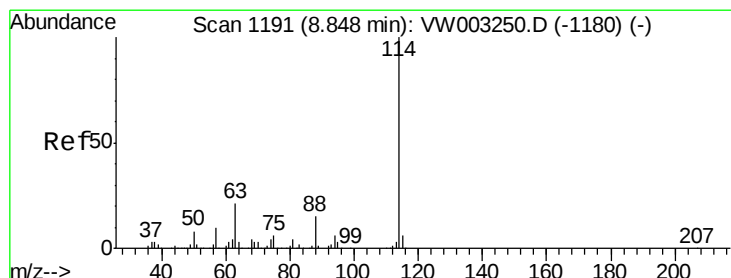
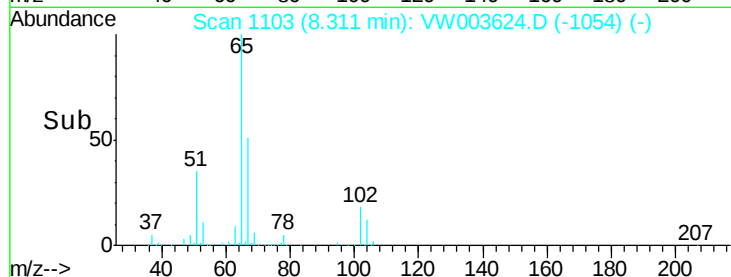
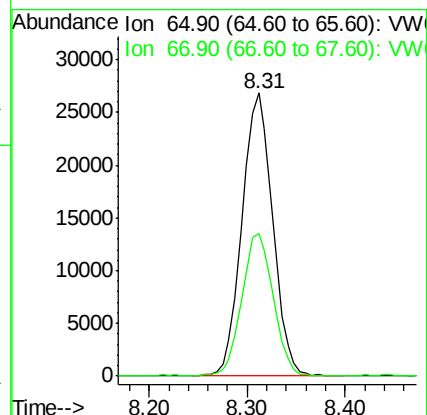
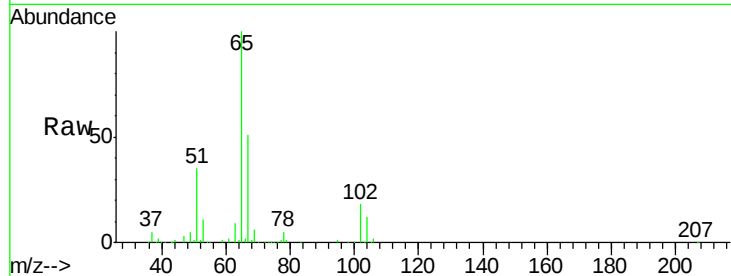
ClientSampleId :

Tot Ion: 65 Resp: 58609

Ion Ratio Lower Upper

65 100

67 51.6 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

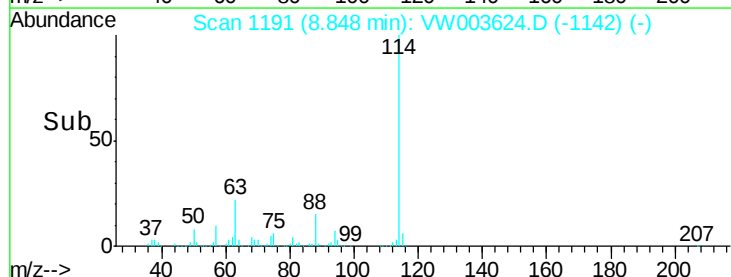
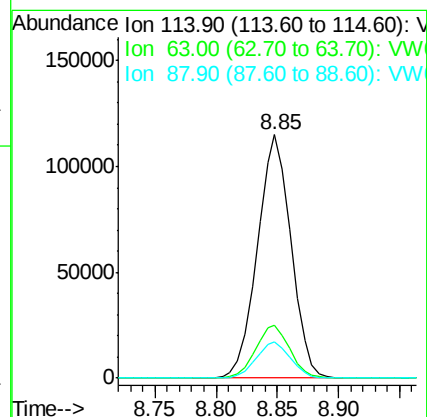
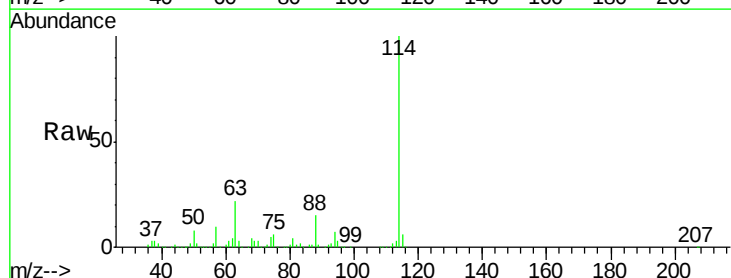
Tgt Ion: 114 Resp: 219622

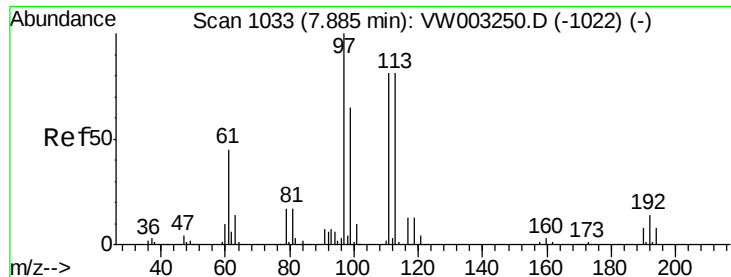
Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.0

88 14.9 0.0 29.6

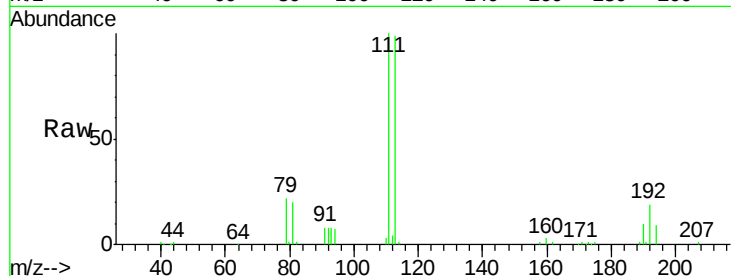




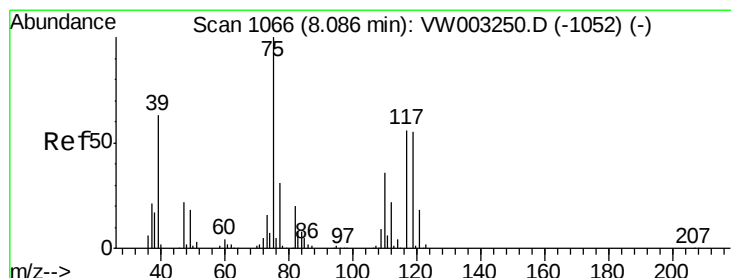
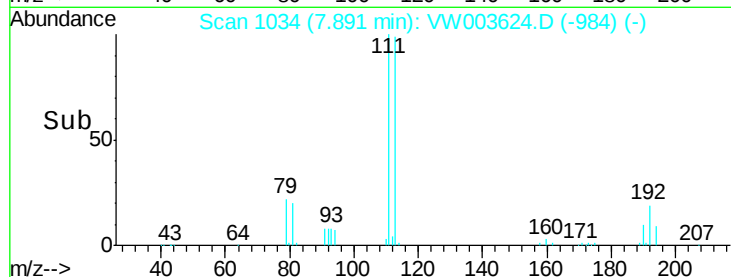
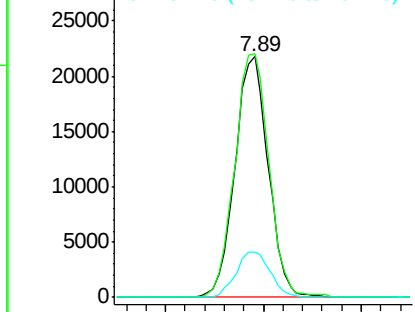
#35  
Dibromofluoromethane  
Concen: 37.640 ug/l  
RT: 7.89 min Scan# 1034  
Delta R.T. 0.01 min  
Lab File: VW003624.D  
Acq: 27 Jun 2018 19:50

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:113 Resp: 51366  
Ion Ratio Lower Upper  
113 100  
111 103.9 82.2 123.2  
192 19.4 16.2 24.2

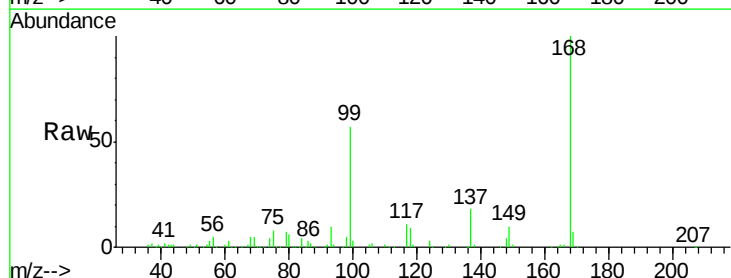


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

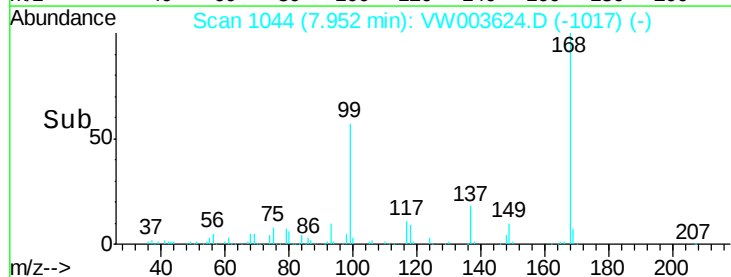
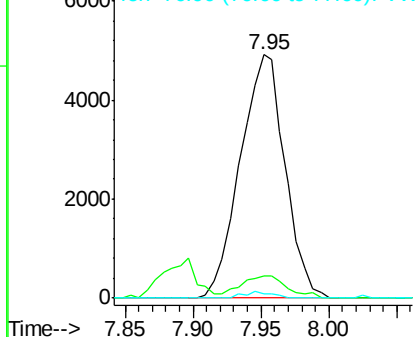


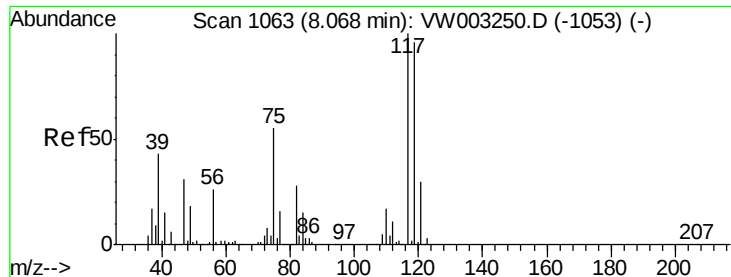
#36  
1,1-Dichloropropene  
Concen: 5.306 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.13 min  
Lab File: VW003624.D  
Acq: 27 Jun 2018 19:50

Tgt Ion: 75 Resp: 11254  
Ion Ratio Lower Upper  
75 100  
110 9.4 17.1 51.3#  
77 1.7 24.9 37.3#



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: 6.612 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

Instrument :

MSVOA\_W

ClientSampled :

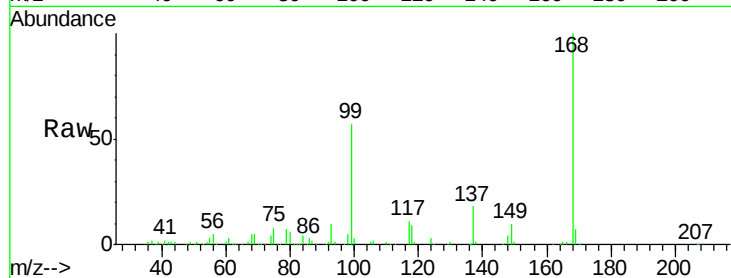
Tot Ion:117 Resp: 13756

Ion Ratio Lower Upper

117 100

119 4.9 76.6 115.0#

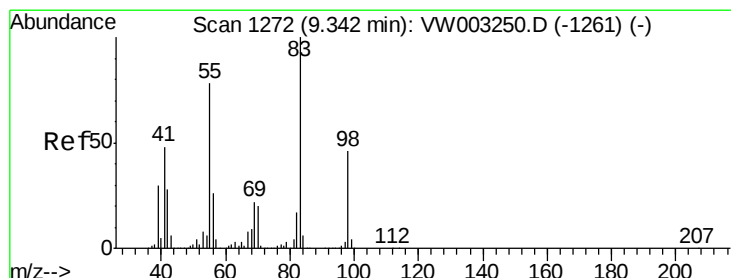
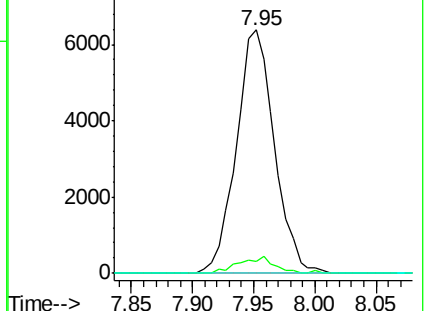
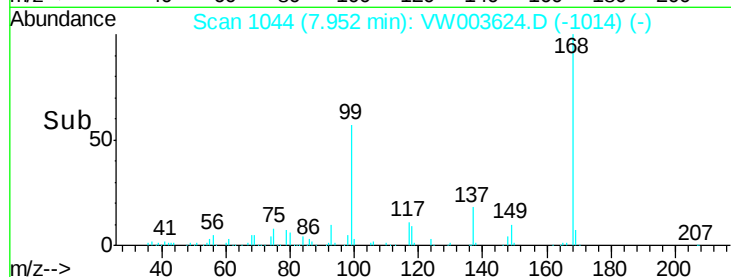
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 4.094 ug/l

RT: 9.34 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

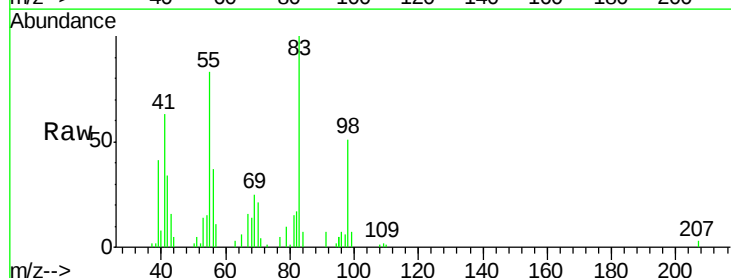
Tgt Ion: 83 Resp: 10048

Ion Ratio Lower Upper

83 100

55 80.4 62.6 93.8

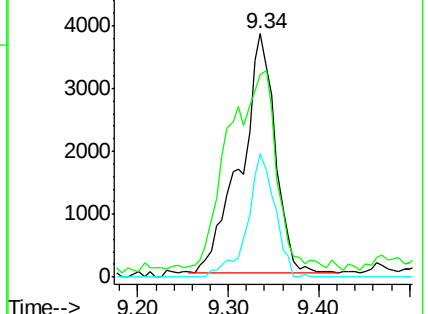
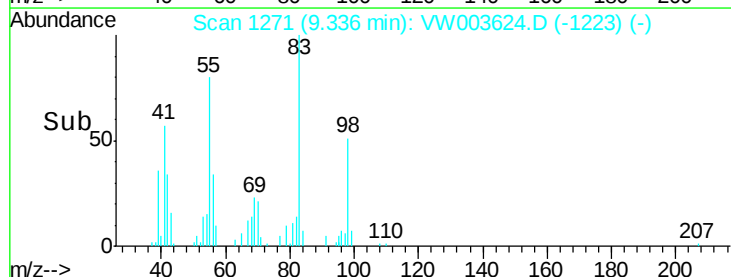
98 51.7 37.0 55.4

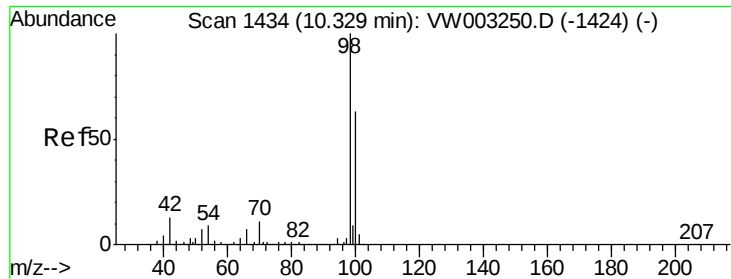


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#50

Toluene-d8

Concen: 31.899 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

Instrument :

MSVOA\_W

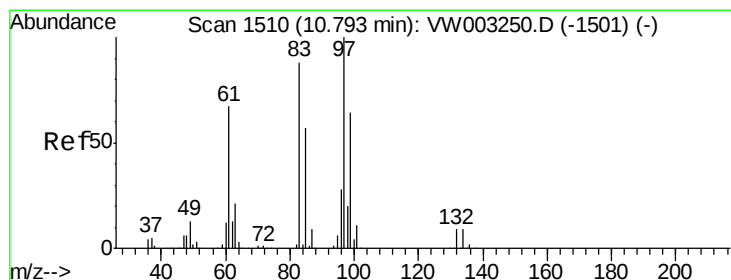
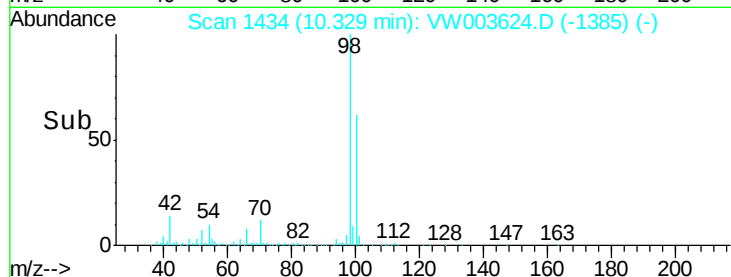
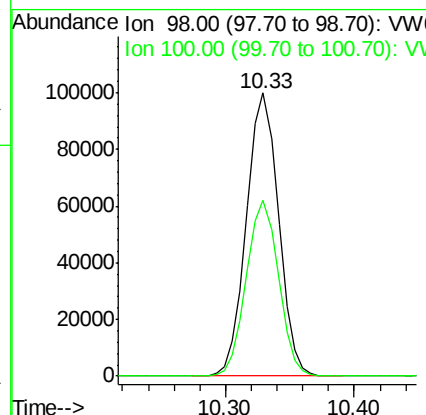
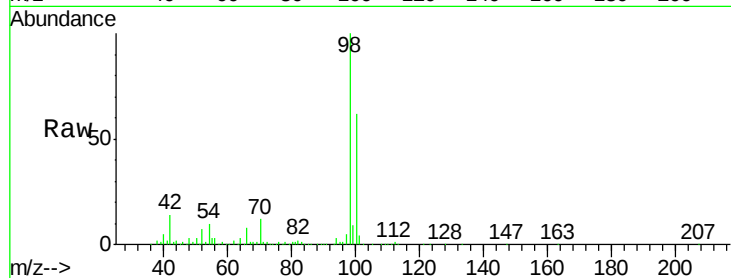
ClientSampled :

Tot Ion: 98 Resp: 172612

Ion Ratio Lower Upper

98 100

100 62.2 50.8 76.2



#55

1,1,2-Trichloroethane

Concen: 4.967 ug/l

RT: 10.76 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

Tgt Ion: 97 Resp: 5334

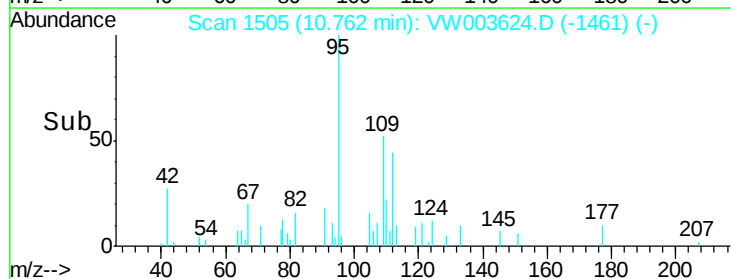
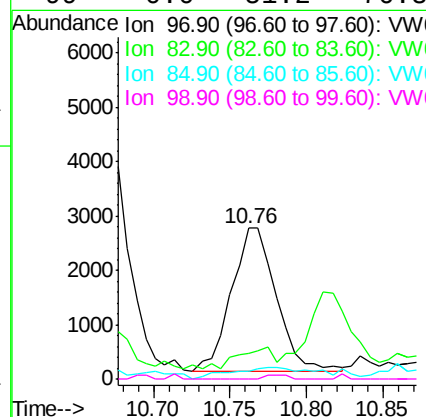
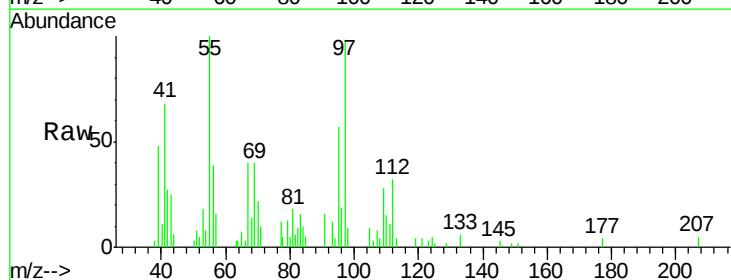
Ion Ratio Lower Upper

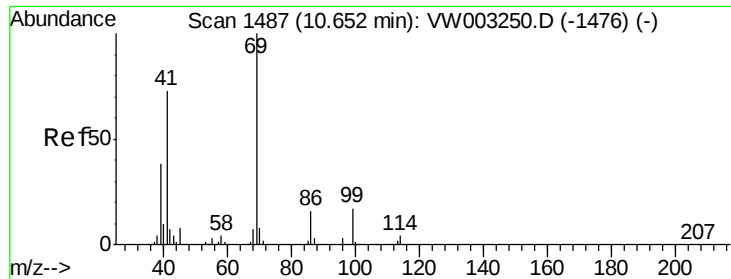
97 100

83 7.4 70.2 105.2#

85 5.0 45.6 68.4#

99 0.0 51.2 76.8#





#56

Ethyl methacrylate

Concen: 1.721 ug/l

RT: 10.67 min Scan# 1490

Delta R.T. 0.02 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

Instrument :

MSVOA\_W

ClientSampled :

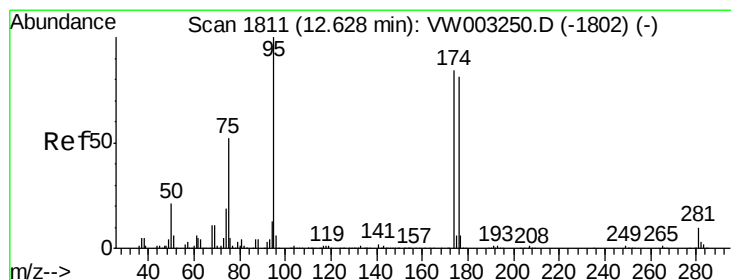
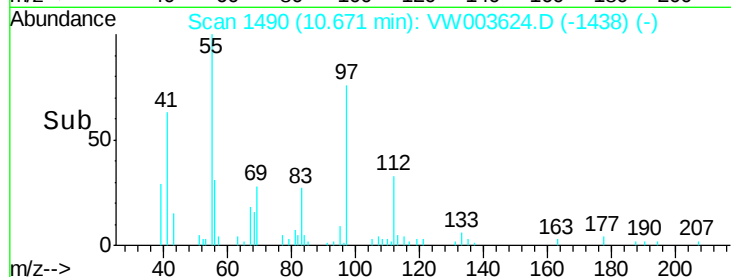
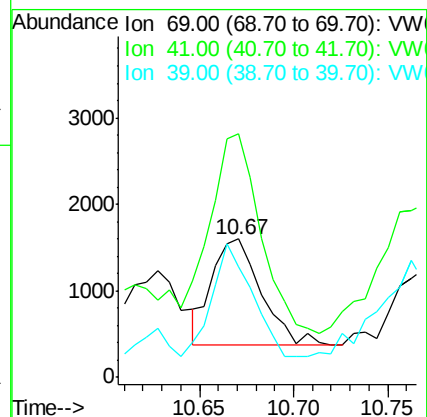
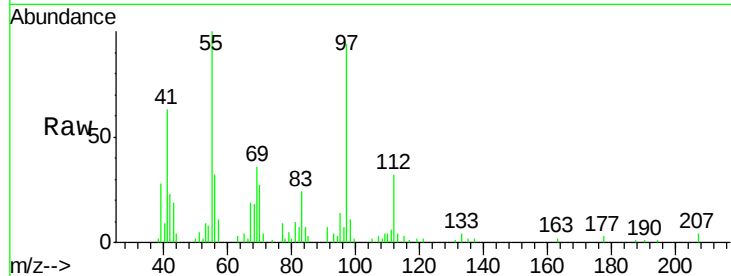
Tot Ion: 69 Resp: 2244

Ion Ratio Lower Upper

69 100

41 190.9 57.8 86.6#

39 85.9 32.7 49.1#



#62

4-Bromofluorobenzene

Concen: 28.520 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.01 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

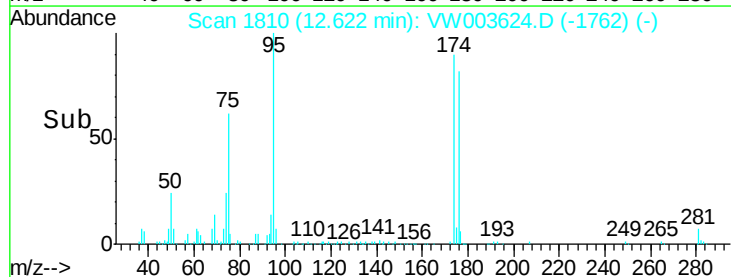
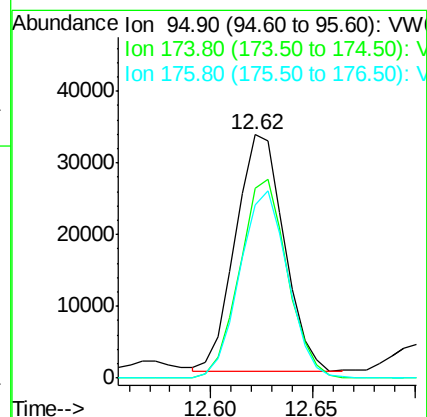
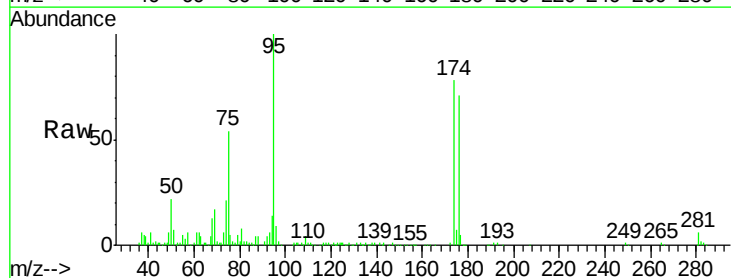
Tgt Ion: 95 Resp: 54616

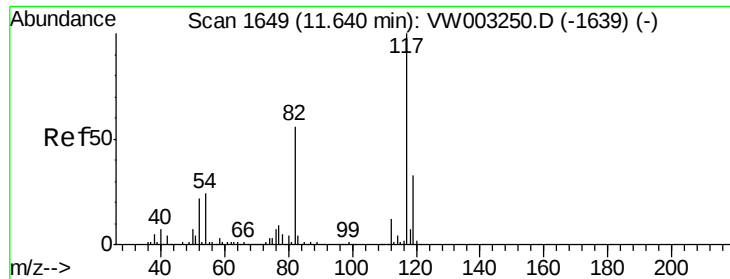
Ion Ratio Lower Upper

95 100

174 82.2 0.0 166.4

176 78.1 0.0 162.0

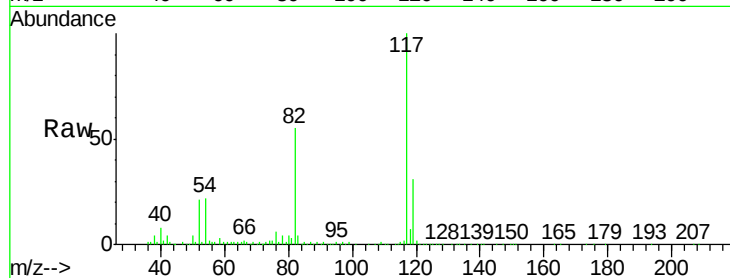




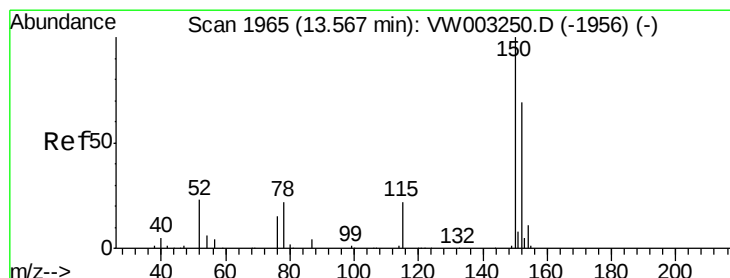
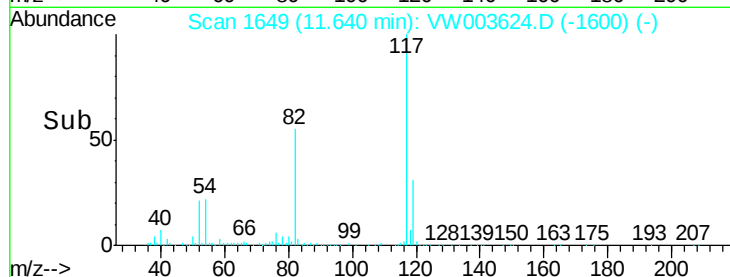
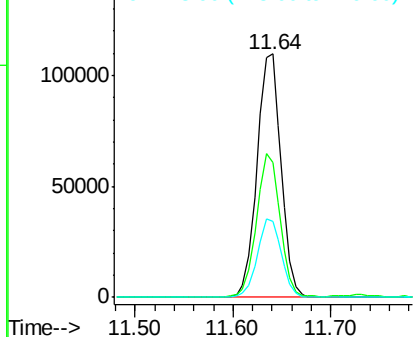
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. 0.00 min  
Lab File: VW003624.D  
Acq: 27 Jun 2018 19:50

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 187706  
Ion Ratio Lower Upper  
117 100  
82 54.9 44.6 67.0  
119 30.9 26.7 40.1

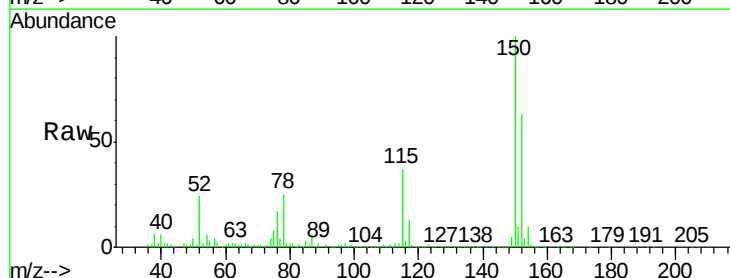


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

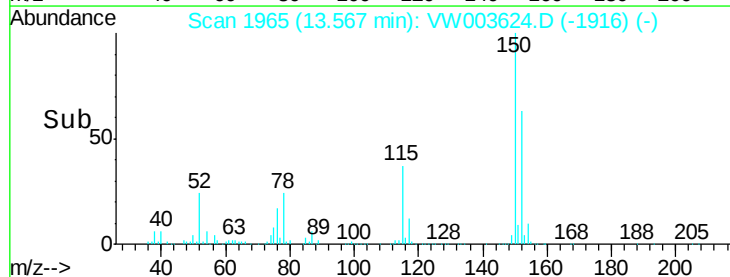
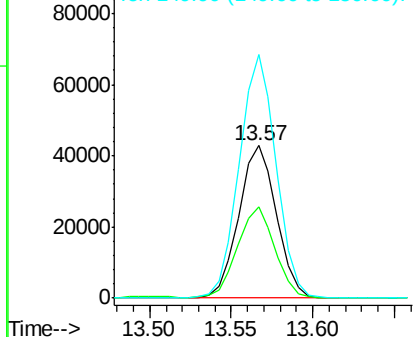


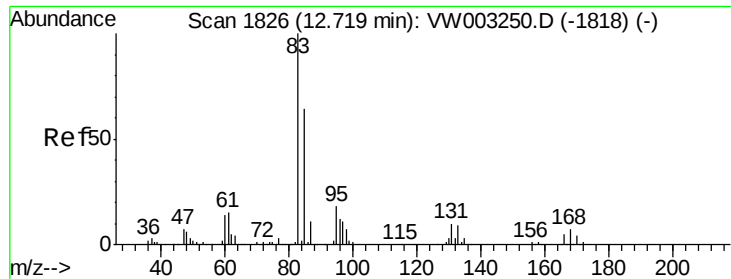
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW003624.D  
Acq: 27 Jun 2018 19:50

Tgt Ion:152 Resp: 68787  
Ion Ratio Lower Upper  
152 100  
115 58.7 29.3 88.0  
150 156.7 0.0 349.6



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





#75

1,1,2,2-Tetrachloroethane

Concen: 1.076 ug/l

RT: 12.69 min Scan# 1822

Delta R.T. -0.02 min

Lab File: VW003624.D

Acq: 27 Jun 2018 19:50

Instrument :

MSVOA\_W

ClientSampled :

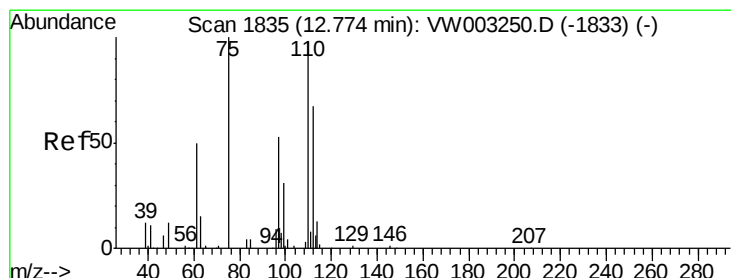
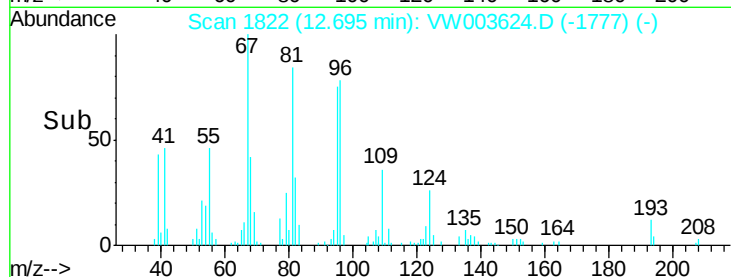
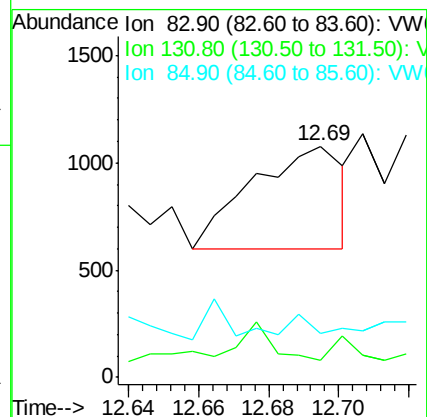
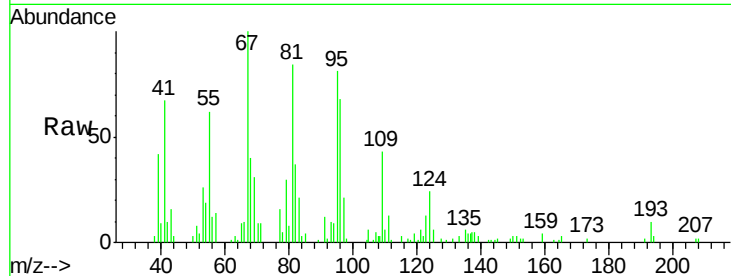
Tot Ion: 83 Resp: 871

Ion Ratio Lower Upper

83 100

131 30.8 5.4 16.2#

85 6.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 50.259 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003624.D

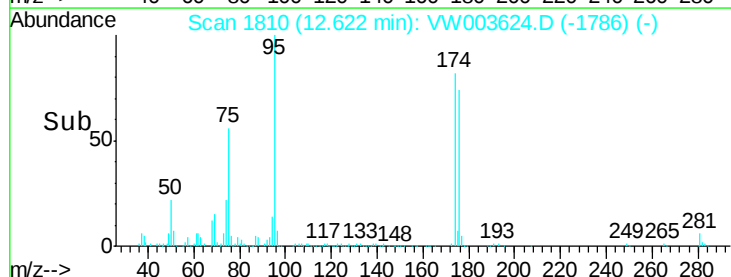
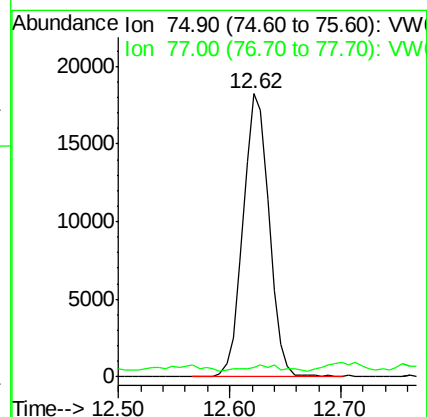
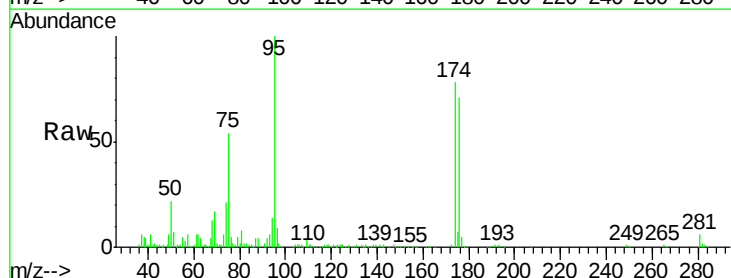
Acq: 27 Jun 2018 19:50

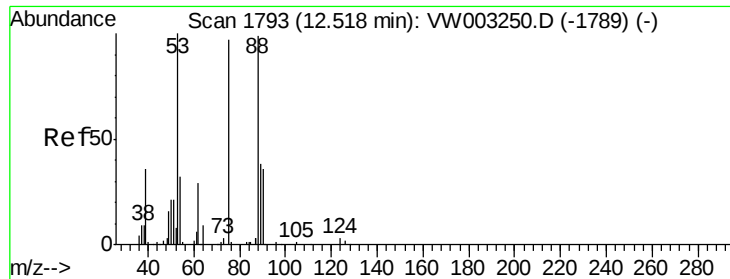
Tgt Ion: 75 Resp: 29555

Ion Ratio Lower Upper

75 100

77 3.1 0.0 0.0#

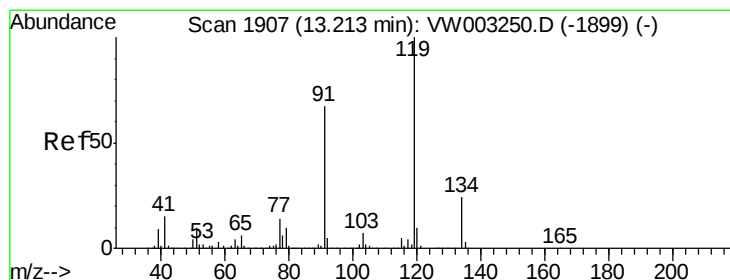
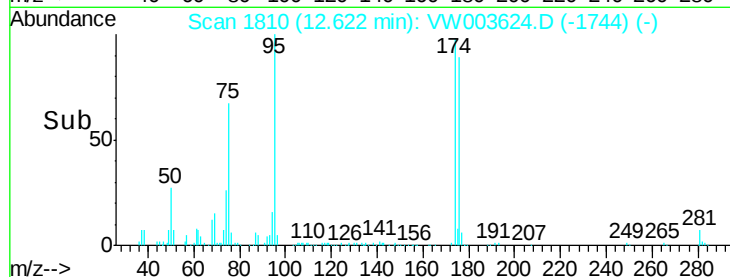
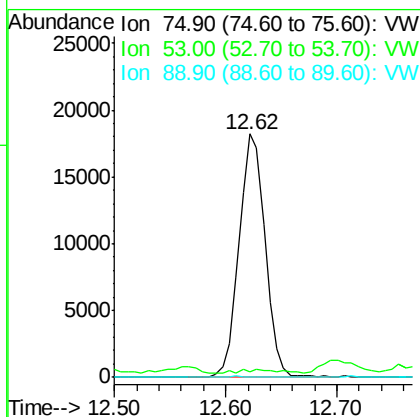
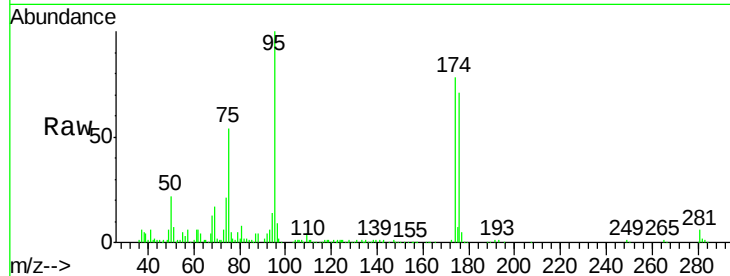




#81  
trans-1,4-Dichloro-2-butene  
Concen: 115.650 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.10 min  
Lab File: VW003624.D  
Acq: 27 Jun 2018 19:50

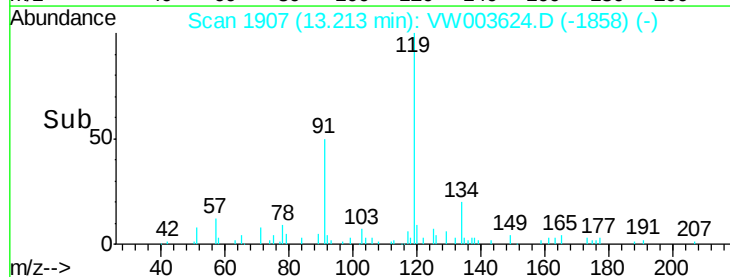
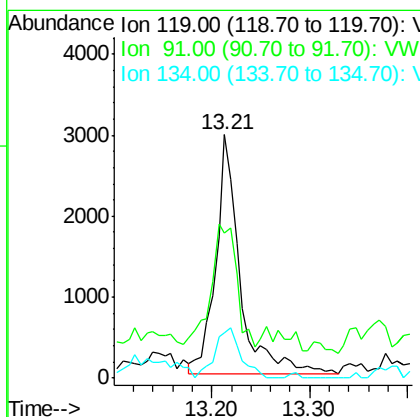
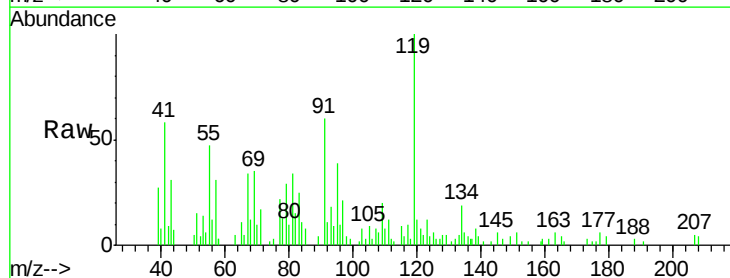
Instrument :  
MSVOA\_W  
ClientSampleId :

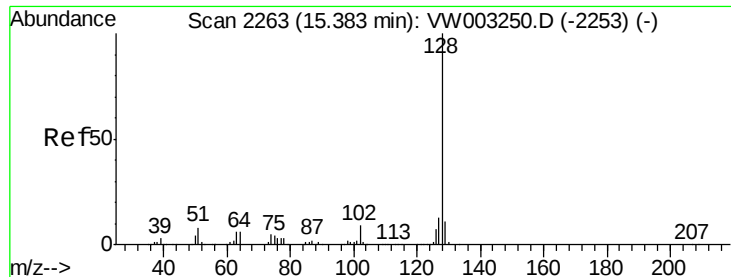
Tot Ion: 75 Resp: 29555  
Ion Ratio Lower Upper  
75 100  
53 1.8 82.9 124.3#  
89 0.2 36.7 55.1#



#83  
tert-Butylbenzene  
Concen: 1.474 ug/l  
RT: 13.21 min Scan# 1907  
Delta R.T. 0.00 min  
Lab File: VW003624.D  
Acq: 27 Jun 2018 19:50

Tgt Ion: 119 Resp: 5045  
Ion Ratio Lower Upper  
119 100  
91 54.6 33.9 101.7  
134 22.5 13.4 40.1

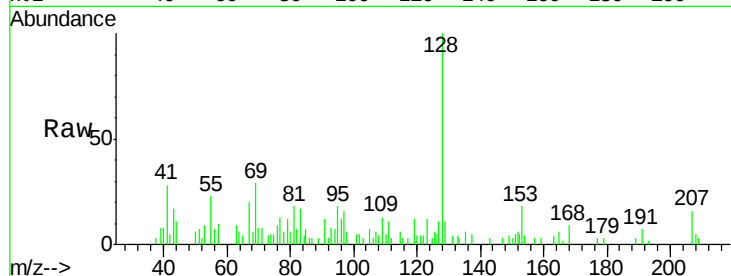




#95  
 Naphthalene  
 Concen: 1.537 ug/l  
 RT: 15.38 min Scan# 2263  
 Delta R.T. 0.00 min  
 Lab File: VW003624.D  
 Acq: 27 Jun 2018 19:50

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 19.4  | 10.5  | 15.7# |
| 129     | 16.7  | 8.9   | 13.3# |



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

