

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120418\  
 Data File : VW007222.D  
 Acq On : 05 Dec 2018 08:15  
 Operator : SY/AP  
 Sample : J6208-07  
 Misc : 6.01G/5ML/MSVOA W/SOIL  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 05 10:59:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W120418S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 05 01:35:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 95401    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 150432   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 102120   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 24926    | 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   | 43348    | 48.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.60% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 43011    | 49.93 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.86% |          |
| 50) Toluene-d8              | 10.33 | 98   | 143273   | 37.76 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.52% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 34710    | 24.24 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 48.48% |          |

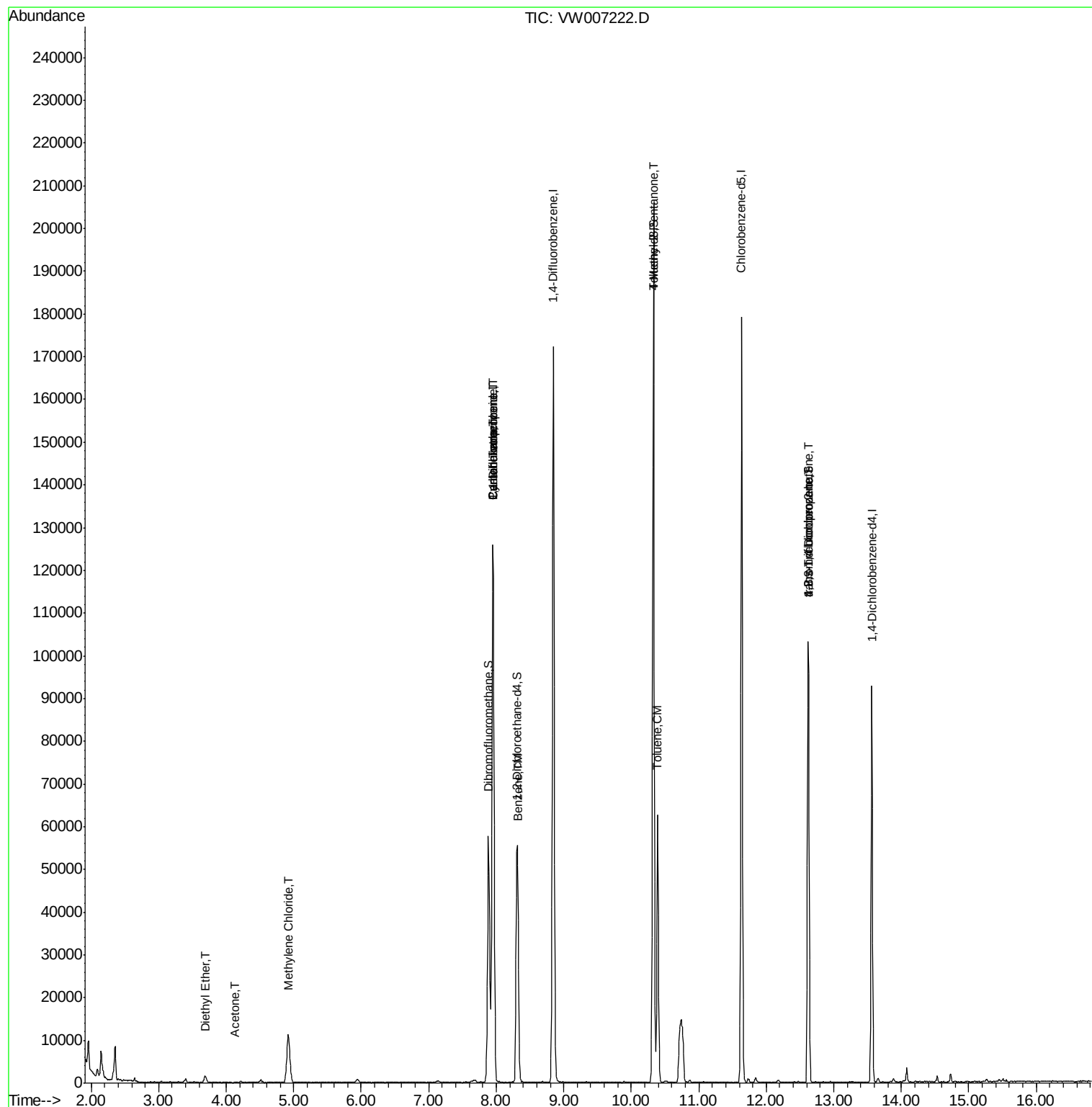
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 3.70  | 74   | 996      | 2.215     | ug/l   | 94     |
| 11) Tert butyl alcohol         | 5.14  | 59   | 20       | Below Cal | #      | 75     |
| 16) Acetone                    | 4.12  | 43   | 276      | 1.313     | ug/l # | 45     |
| 20) Methylene Chloride         | 4.92  | 84   | 9158     | 3.833     | ug/l   | 95     |
| 31) Cyclohexane                | 7.95  | 56   | 1868     | 1.060     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 7146     | 4.882     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 9779     | 6.546     | ug/l # | 17     |
| 40) Benzene                    | 8.32  | 78   | 7511     | 1.871     | ug/l   | 95     |
| 51) 4-Methyl-2-Pentanone       | 10.33 | 43   | 602      | 1.188     | ug/l # | 1      |
| 52) Toluene                    | 10.39 | 92   | 26692    | 9.560     | ug/l   | 100    |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 17219    | 89.216    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 17219    | 192.291   | ug/l # | 13     |

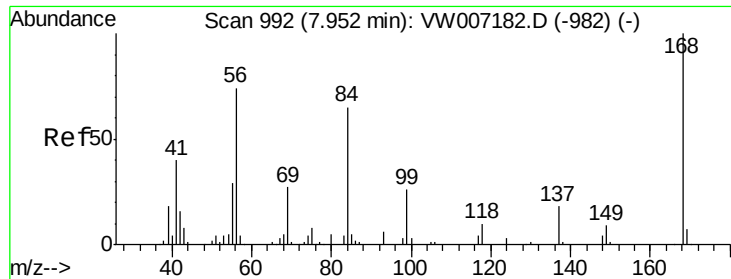
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW120418\  
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MSVOA\_W  
ClientSampleId :

Quant Time: Dec 05 10:59:33 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W120418S.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 05 01:35:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007222.D

Acq: 05 Dec 2018 08:15

Instrument :

MSVOA\_W

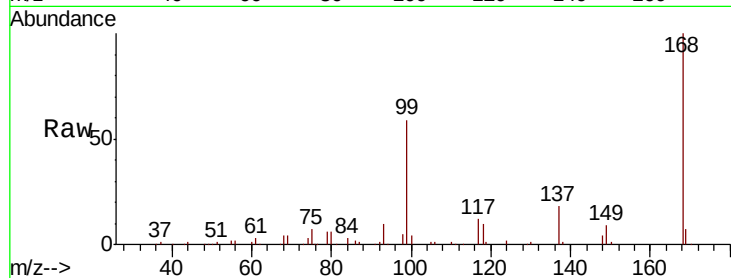
ClientSampled :

Tot Ion:168 Resp: 95401

Ion Ratio Lower Upper

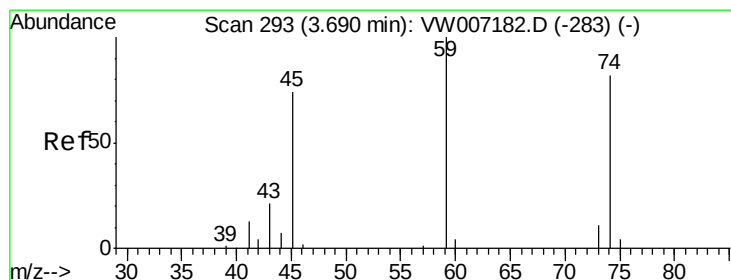
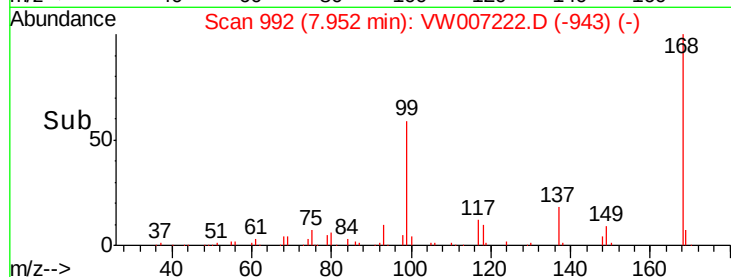
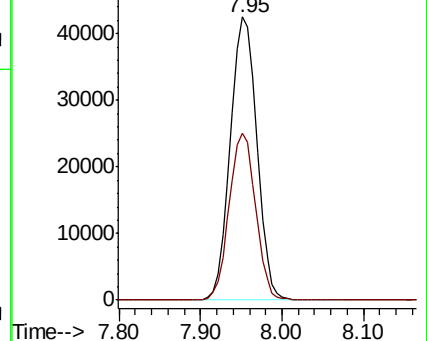
168 100

99 59.1 47.8 71.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.215 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.01 min

Lab File: VW007222.D

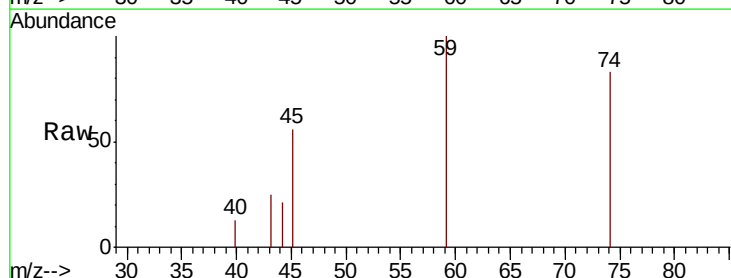
Acq: 05 Dec 2018 08:15

Tgt Ion: 74 Resp: 996

Ion Ratio Lower Upper

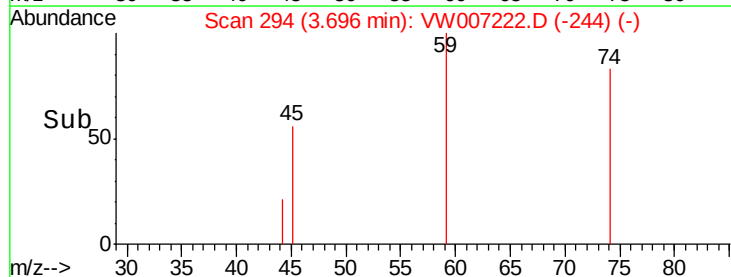
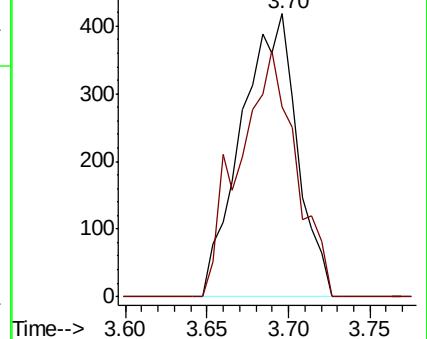
74 100

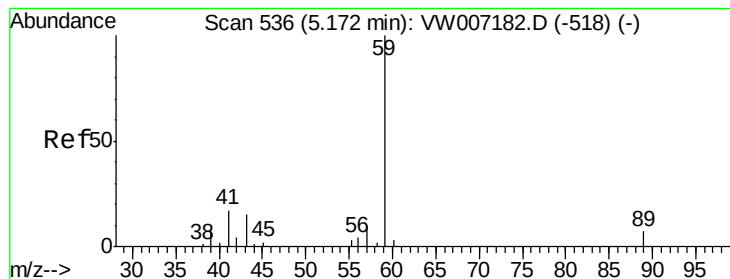
45 88.6 47.2 141.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



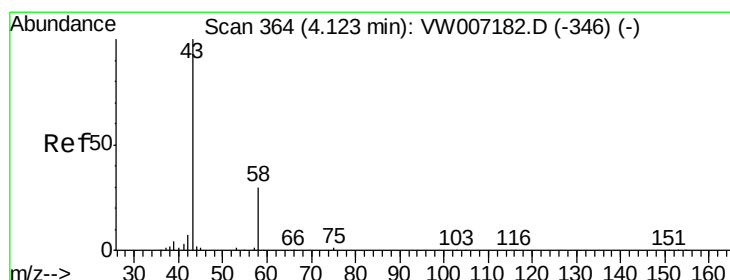
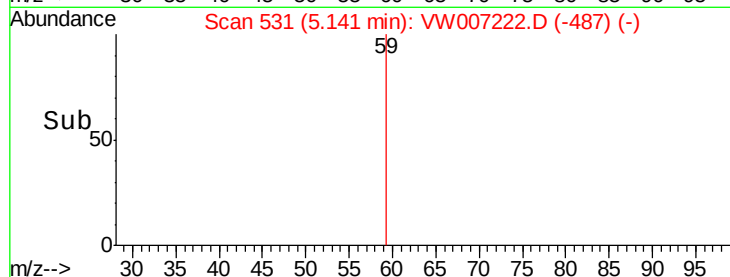
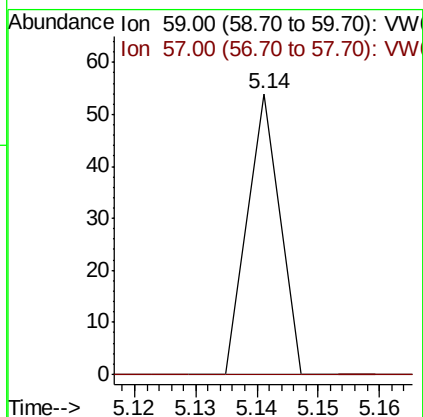
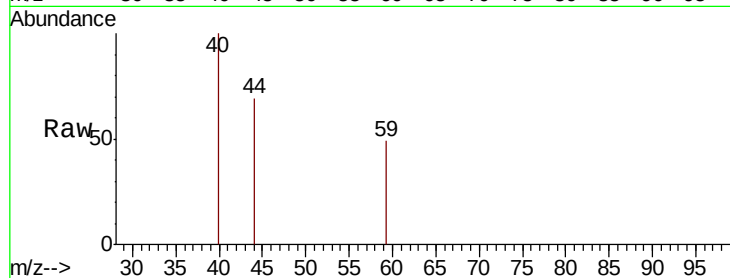


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.14 min Scan# 531  
 Delta R.T. -0.03 min  
 Lab File: VW007222.D  
 Acq: 05 Dec 2018 08:15

Instrument :  
 MSVOA\_W  
 ClientSampled :

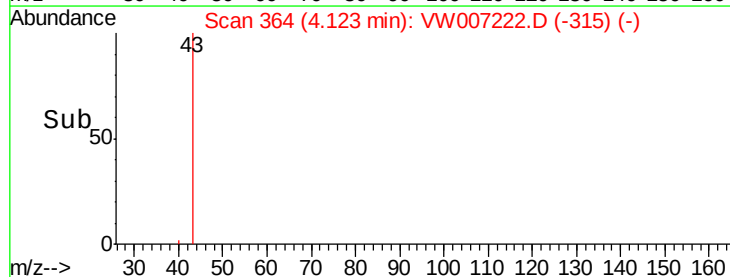
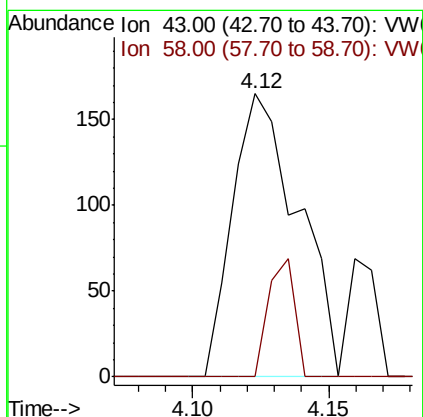
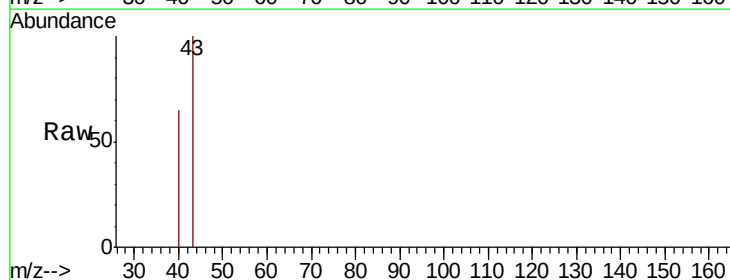
Tot Ion: 59 Resp: 20  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.1 10.7#

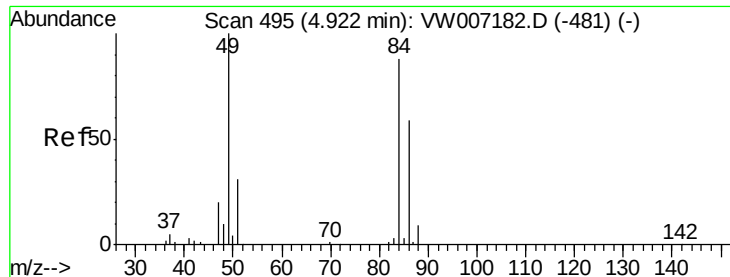


#16

Acetone  
 Concen: 1.313 ug/l  
 RT: 4.12 min Scan# 364  
 Delta R.T. -0.00 min  
 Lab File: VW007222.D  
 Acq: 05 Dec 2018 08:15

Tgt Ion: 43 Resp: 276  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 23.8 35.8#

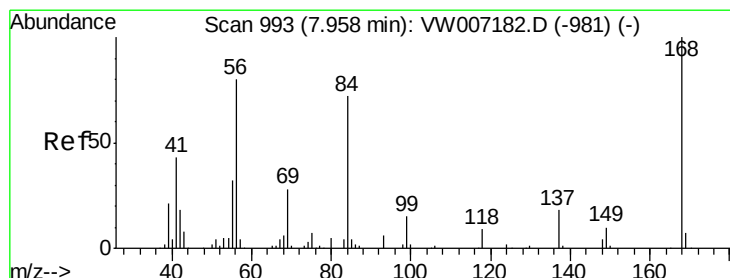
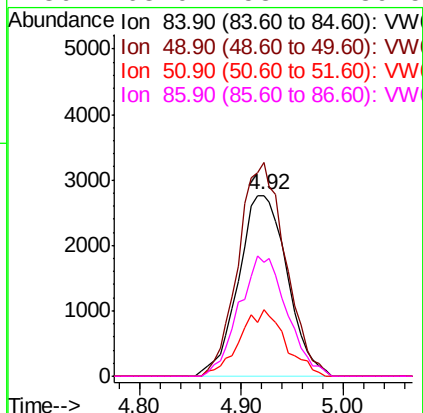
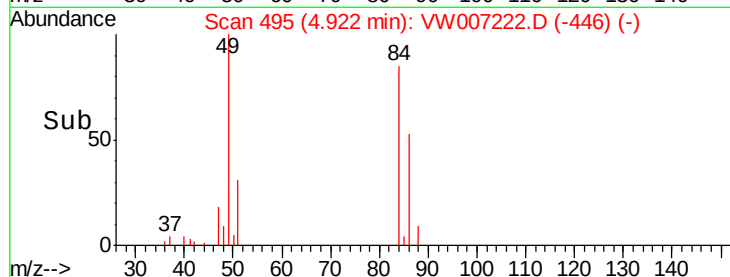
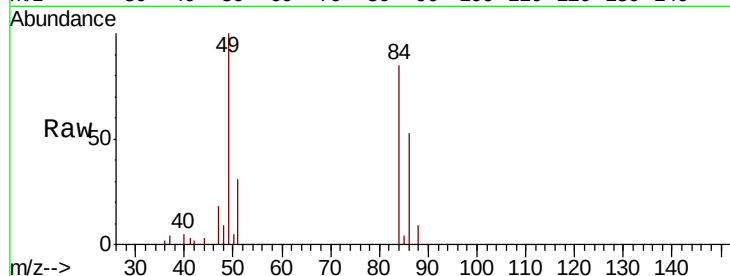




#20  
Methylene Chloride  
Concen: 3.833 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW007222.D  
Acq: 05 Dec 2018 08:15

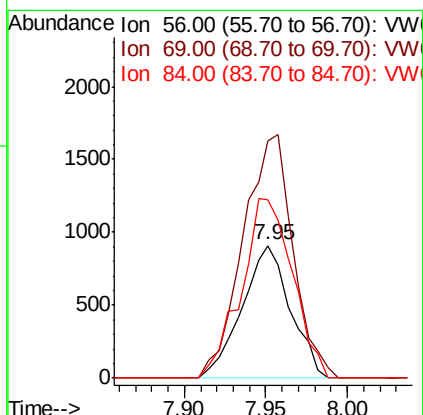
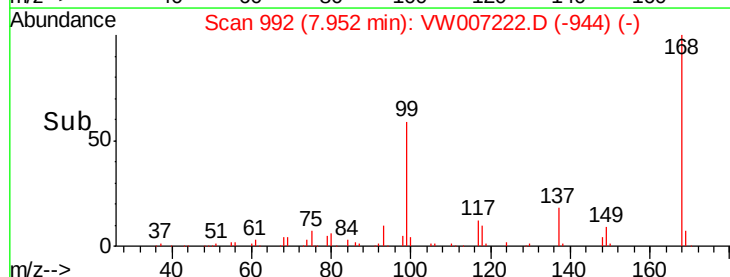
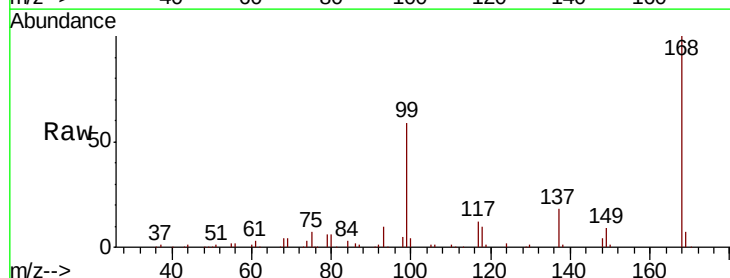
Instrument :  
MSVOA\_W  
ClientSampleId :

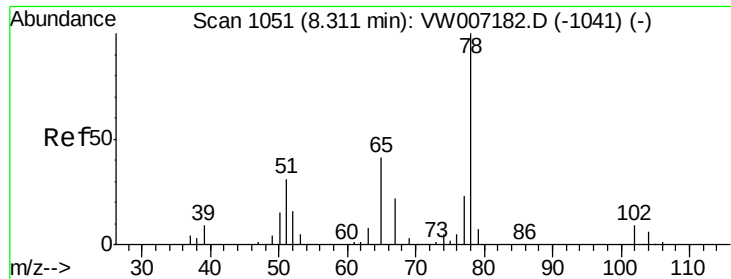
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 9158  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 118.2 | 90.6  | 135.8 |
| 51       | 36.8  | 27.6  | 41.4  |
| 86       | 63.0  | 53.7  | 80.5  |



#31  
Cyclohexane  
Concen: 1.060 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW007222.D  
Acq: 05 Dec 2018 08:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 1868   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 179.6 | 28.2  | 42.2#  |
| 84       | 134.9 | 72.1  | 108.1# |

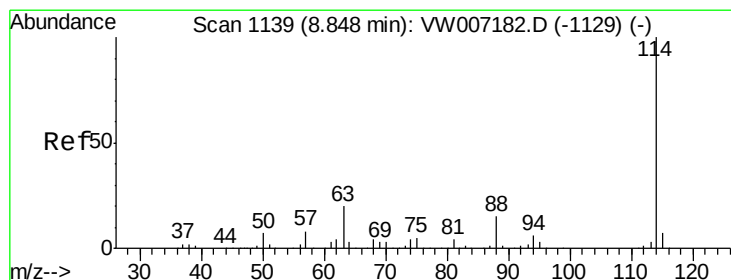
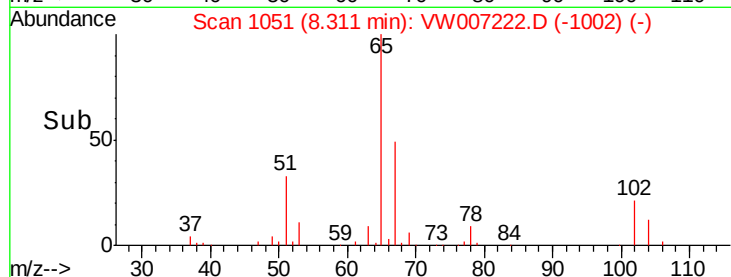
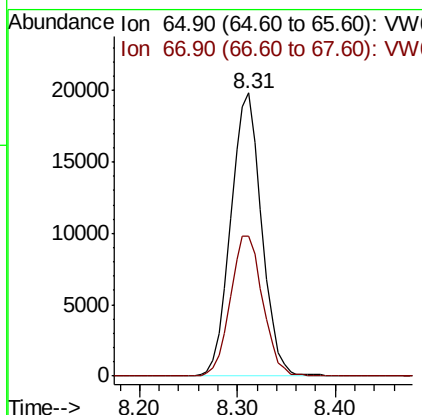
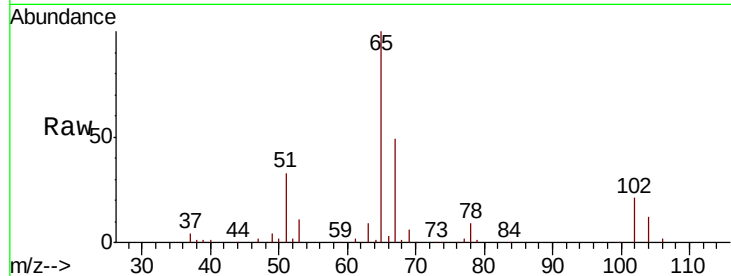




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.803 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VW007222.D  
 Acq: 05 Dec 2018 08:15

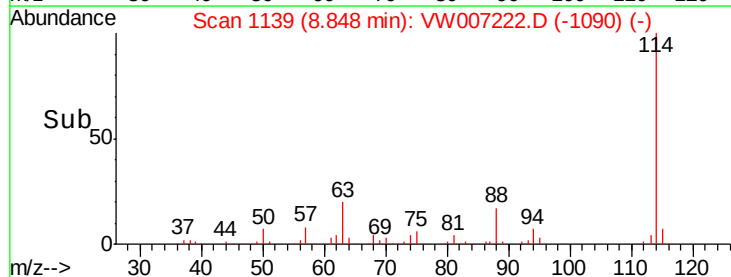
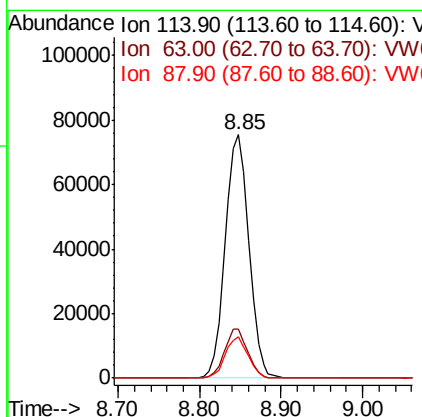
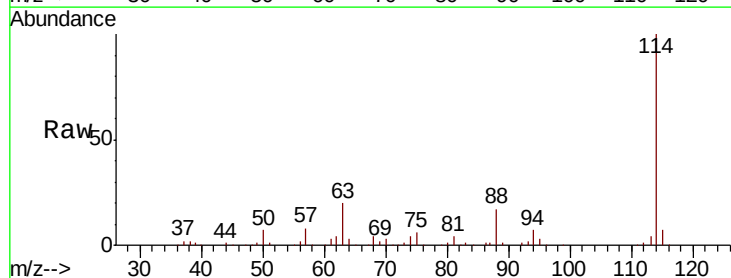
Instrument :  
 MSVOA\_W  
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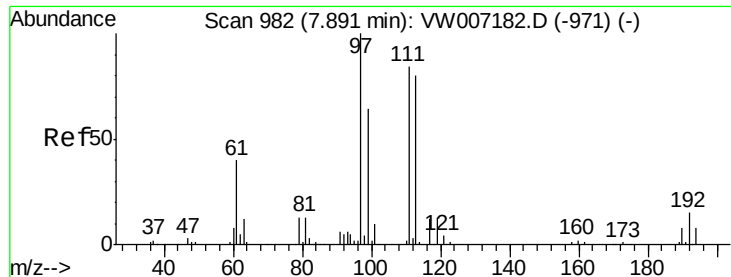
Tot Ion: 65 Resp: 43348  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 106.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW007222.D  
 Acq: 05 Dec 2018 08:15

Tgt Ion: 114 Resp: 150432  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 40.2  
 88 17.0 0.0 30.0

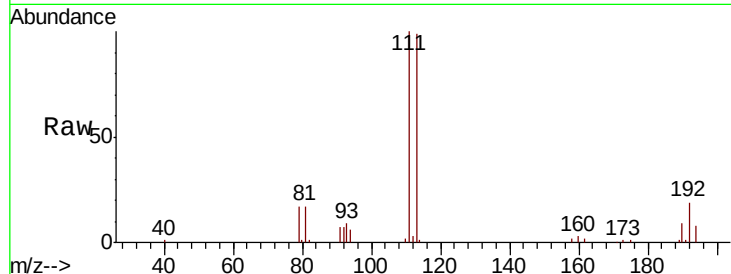




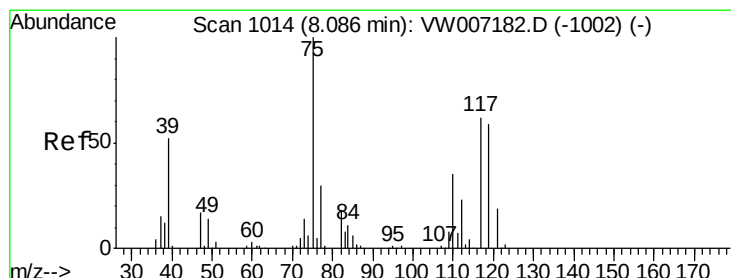
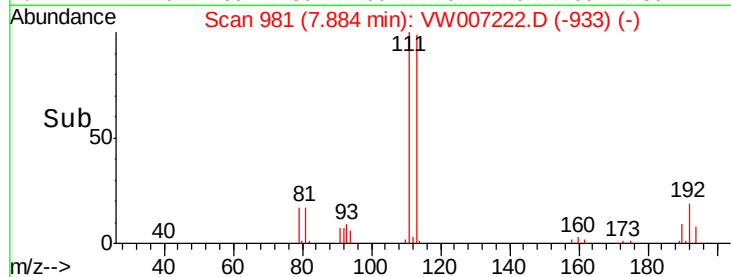
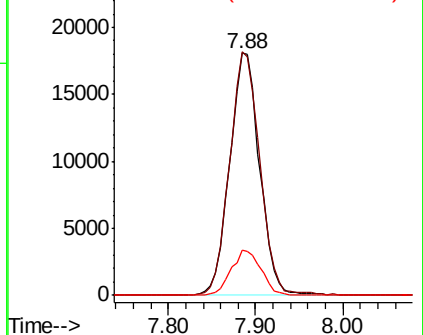
#35  
 Dibromofluoromethane  
 Concen: 49.933 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.01 min  
 Lab File: VW007222.D  
 Acq: 05 Dec 2018 08:15

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:113 Resp: 43011  
 Ion Ratio Lower Upper  
 113 100  
 111 101.4 82.2 123.4  
 192 18.6 14.4 21.6

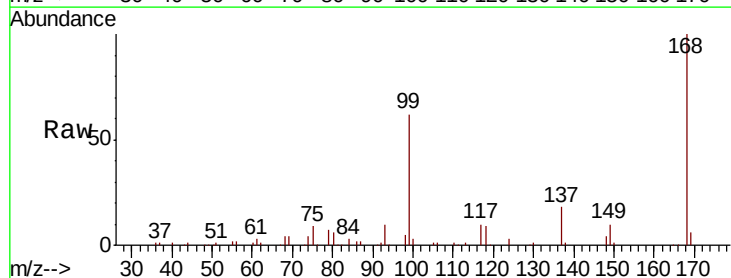


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

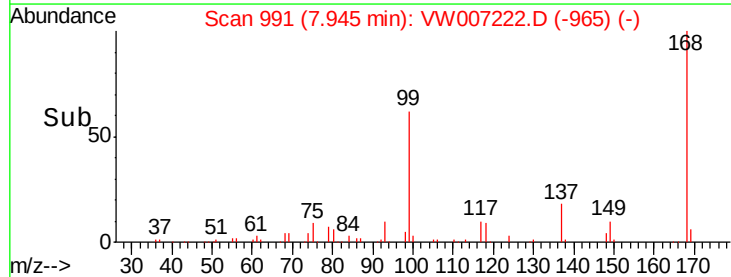
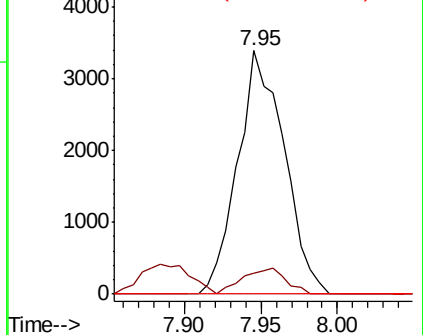


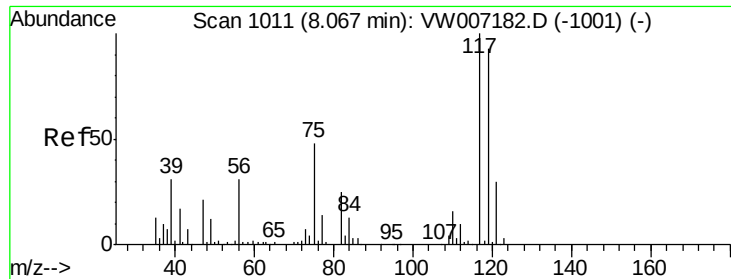
#36  
 1,1-Dichloropropene  
 Concen: 4.882 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW007222.D  
 Acq: 05 Dec 2018 08:15

Tgt Ion: 75 Resp: 7146  
 Ion Ratio Lower Upper  
 75 100  
 110 9.9 18.3 54.9#  
 77 0.0 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

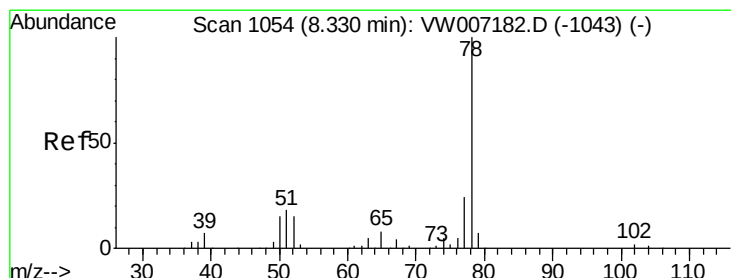
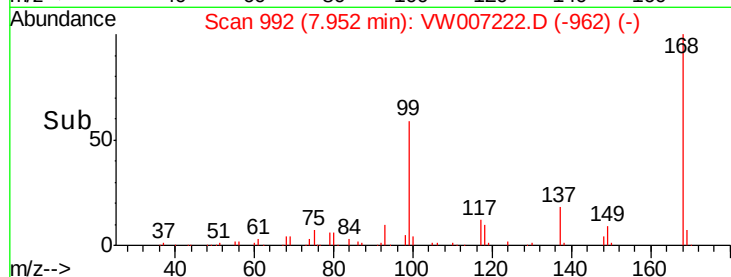
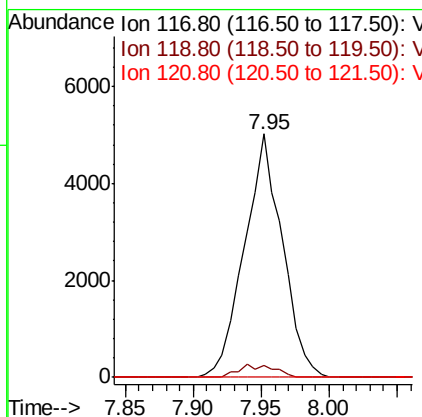
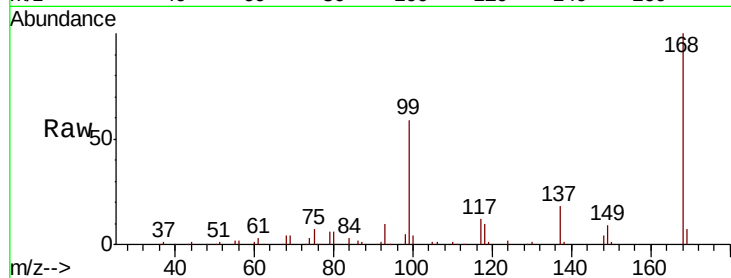




#38  
 Carbon Tetrachloride  
 Concen: 6.546 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW007222.D  
 Acq: 05 Dec 2018 08:15

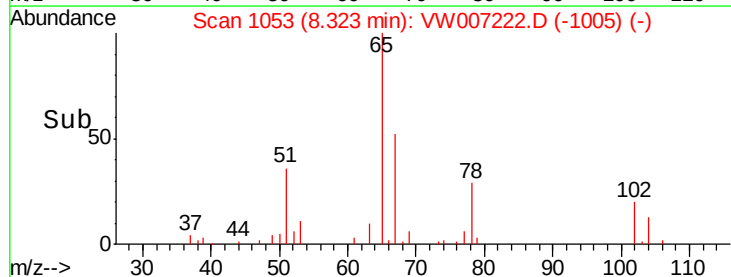
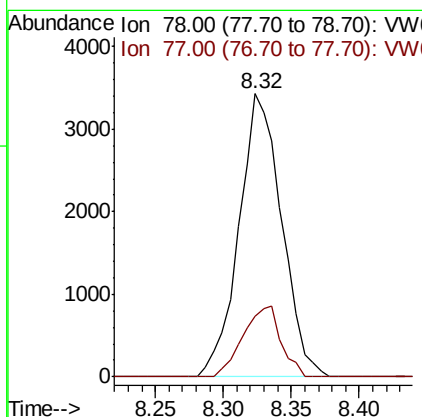
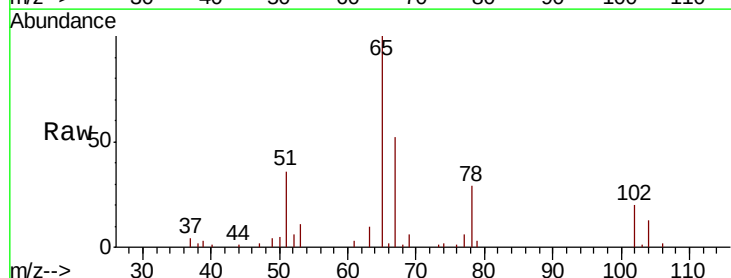
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:117 Resp: 9779  
 Ion Ratio Lower Upper  
 117 100  
 119 5.1 74.1 111.1#  
 121 0.0 23.9 35.9#

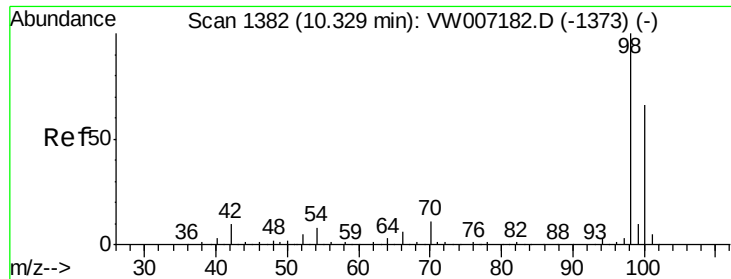


#40  
 Benzene  
 Concen: 1.871 ug/l  
 RT: 8.32 min Scan# 1053  
 Delta R.T. -0.01 min  
 Lab File: VW007222.D  
 Acq: 05 Dec 2018 08:15

Tgt Ion: 78 Resp: 7511  
 Ion Ratio Lower Upper  
 78 100  
 77 21.3 18.9 28.3







#50

Toluene-d8

Concen: 37.760 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW007222.D

Acq: 05 Dec 2018 08:15

Instrument :

MSVOA\_W

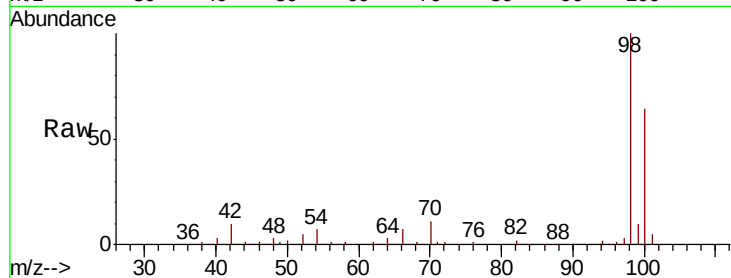
ClientSampleId :

Tot Ion: 98 Resp: 143273

Ion Ratio Lower Upper

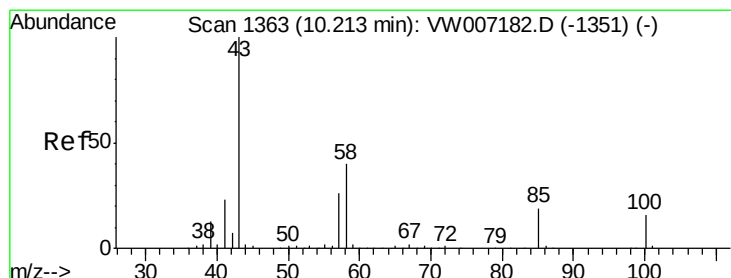
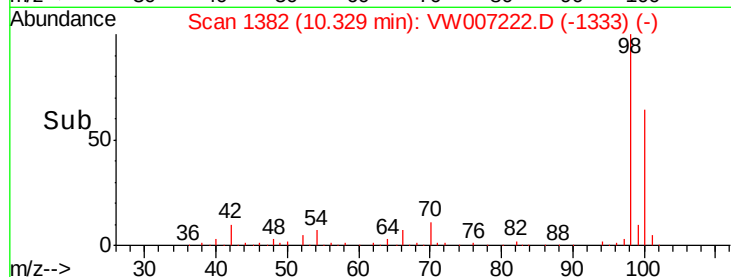
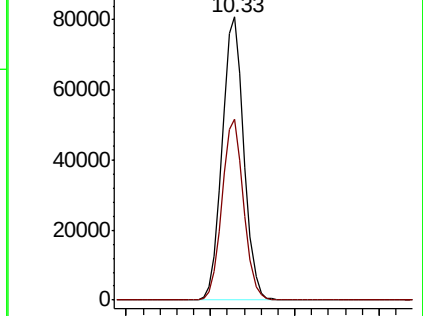
98 100

100 63.5 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.188 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.12 min

Lab File: VW007222.D

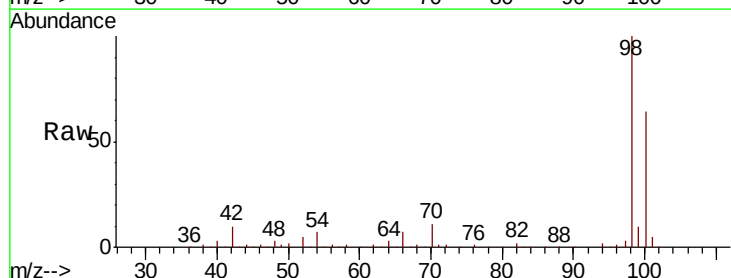
Acq: 05 Dec 2018 08:15

Tgt Ion: 43 Resp: 602

Ion Ratio Lower Upper

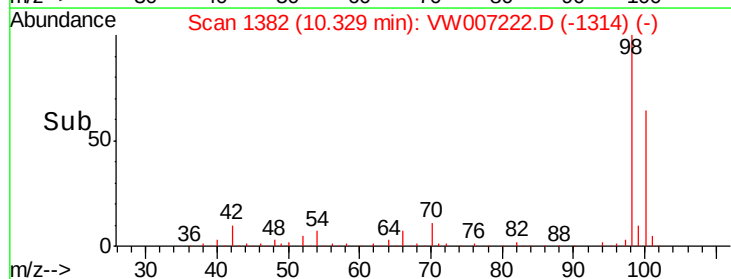
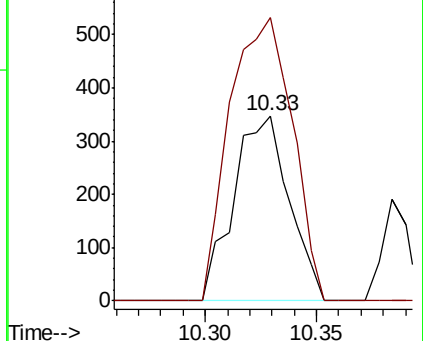
43 100

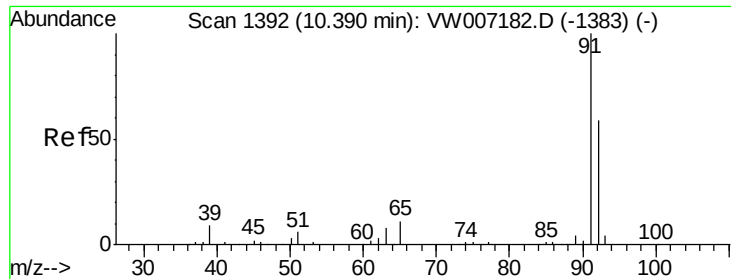
58 172.6 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 9.560 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007222.D

Acq: 05 Dec 2018 08:15

Instrument :

MSVOA\_W

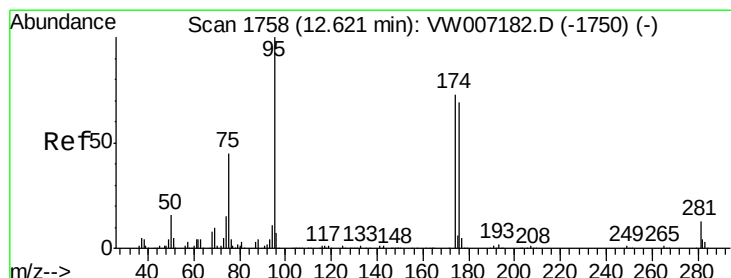
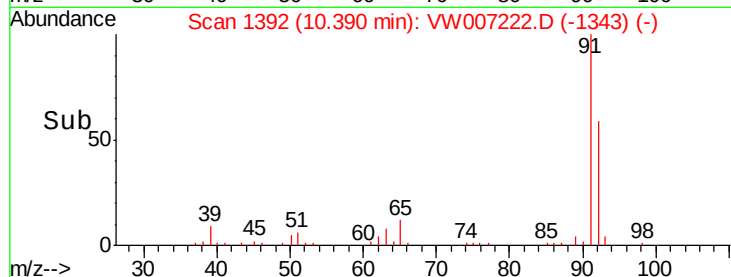
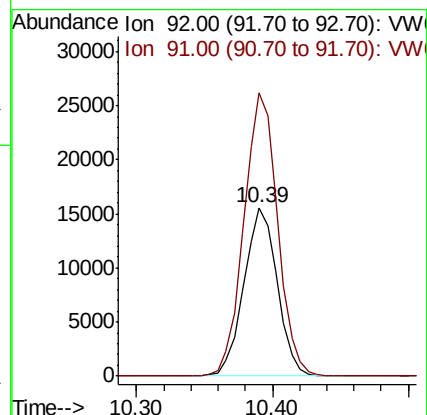
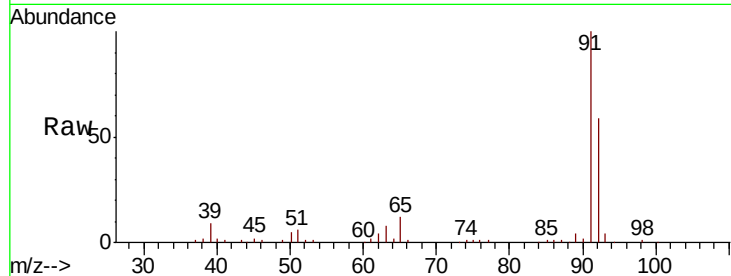
ClientSampleId :

Tot Ion: 92 Resp: 26692

Ion Ratio Lower Upper

92 100

91 170.1 136.0 204.0



#62

4-Bromofluorobenzene

Concen: 24.236 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007222.D

Acq: 05 Dec 2018 08:15

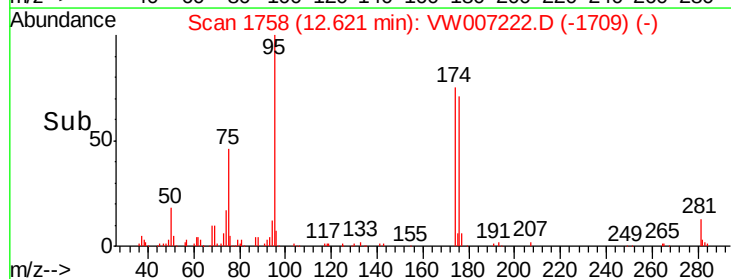
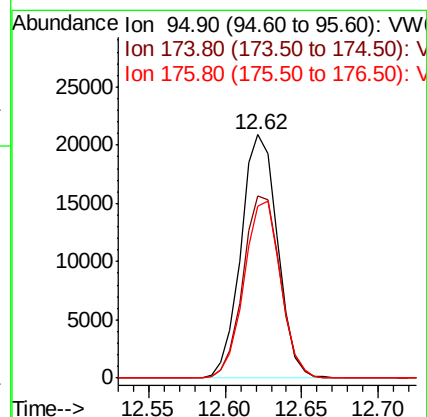
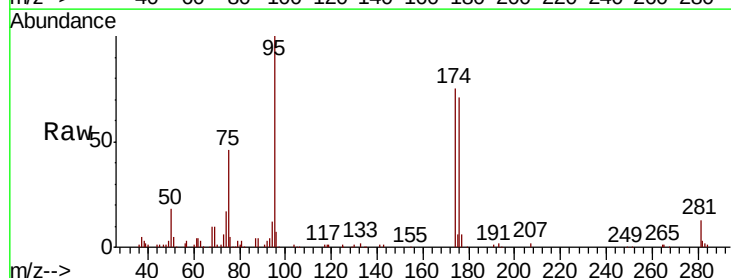
Tgt Ion: 95 Resp: 34710

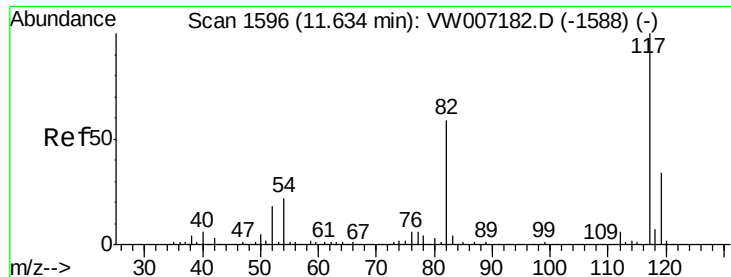
Ion Ratio Lower Upper

95 100

174 76.0 0.0 148.0

176 72.8 0.0 139.4

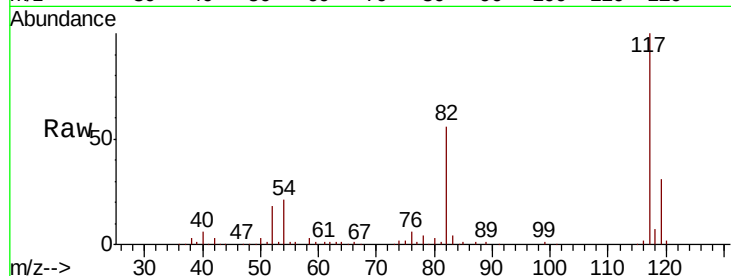




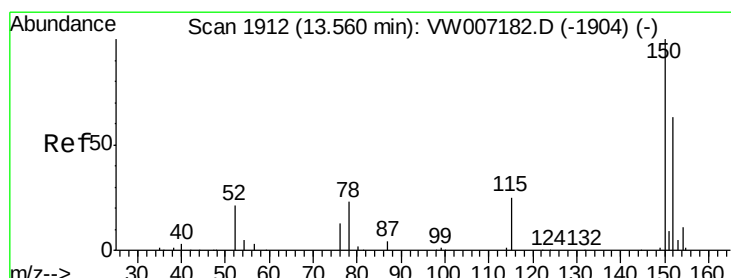
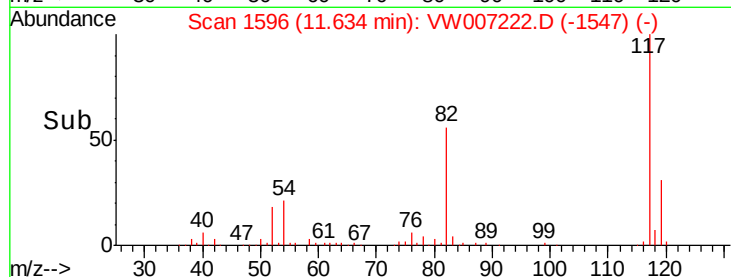
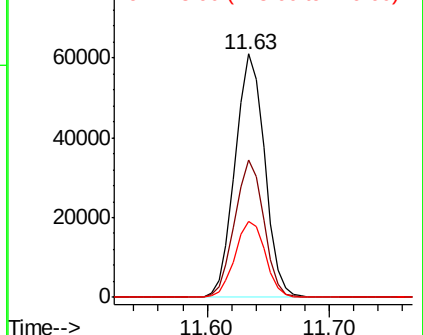
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007222.D  
Acq: 05 Dec 2018 08:15

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 102120  
Ion Ratio Lower Upper  
117 100  
82 56.4 47.4 71.2  
119 31.3 26.8 40.2

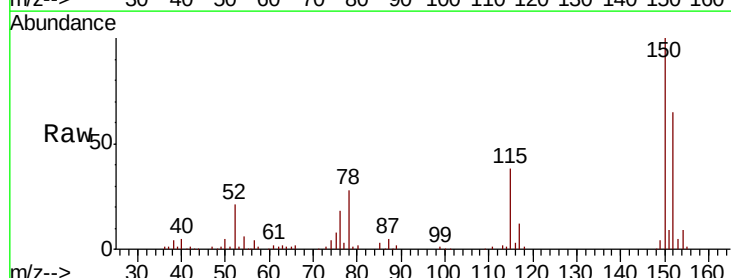


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

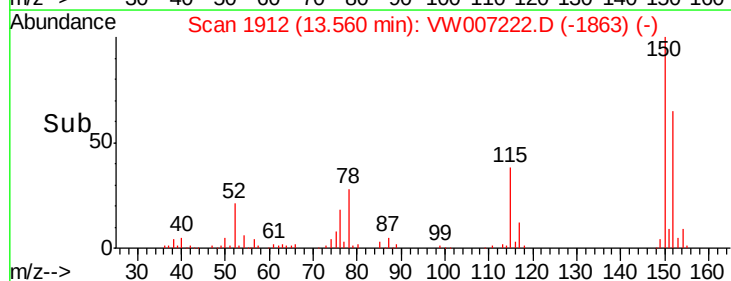
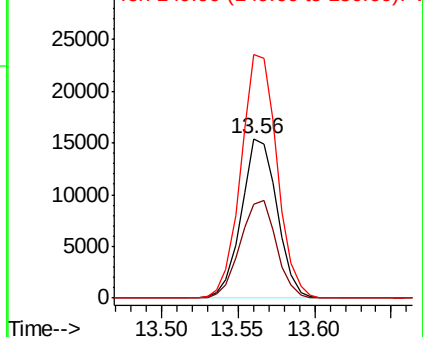


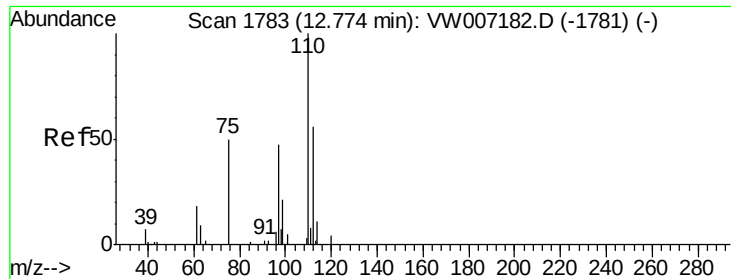
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW007222.D  
Acq: 05 Dec 2018 08:15

Tgt Ion:152 Resp: 24926  
Ion Ratio Lower Upper  
152 100  
115 62.1 31.3 93.8  
150 154.6 0.0 358.0



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 89.216 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. -0.15 min

Lab File: VW007222.D

Acq: 05 Dec 2018 08:15

Instrument :

MSVOA\_W

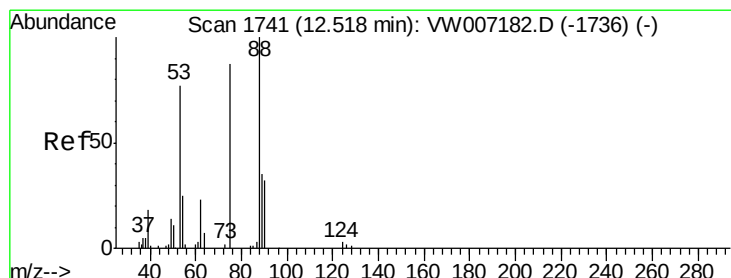
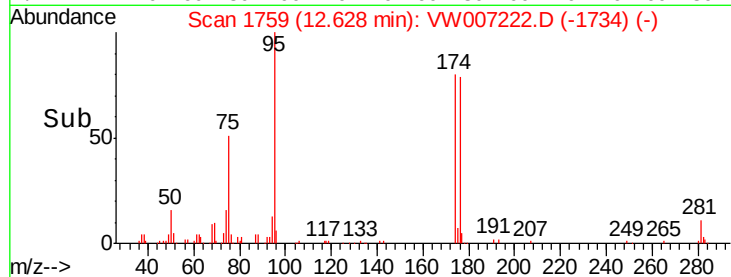
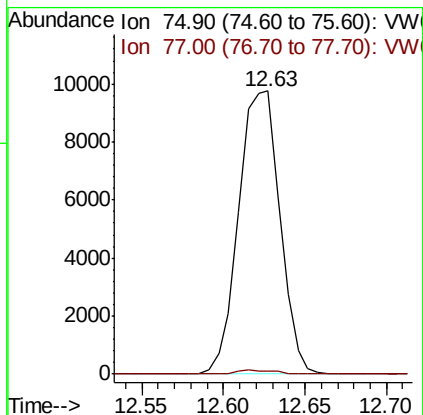
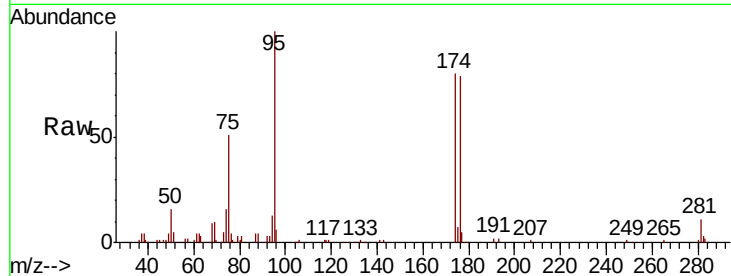
ClientSampled :

Tot Ion: 75 Resp: 17219

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 192.291 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.11 min

Lab File: VW007222.D

Acq: 05 Dec 2018 08:15

Tgt Ion: 75 Resp: 17219

Ion Ratio Lower Upper

75 100

53 0.0 72.8 109.2#

89 0.0 36.4 54.6#

