

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071118\  
 Data File : VW003876.D  
 Acq On : 11 Jul 2018 20:59  
 Operator : SY/AP  
 Sample : J3881-02RE  
 Misc : 5.33G/5ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 12 01:56:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 05:07:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 180307   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 305747   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 250046   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 84510    | 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   | 125767   | 53.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.68% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 105634   | 49.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.72%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 358993   | 43.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.72%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 97636    | 32.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 65.94%  |          |

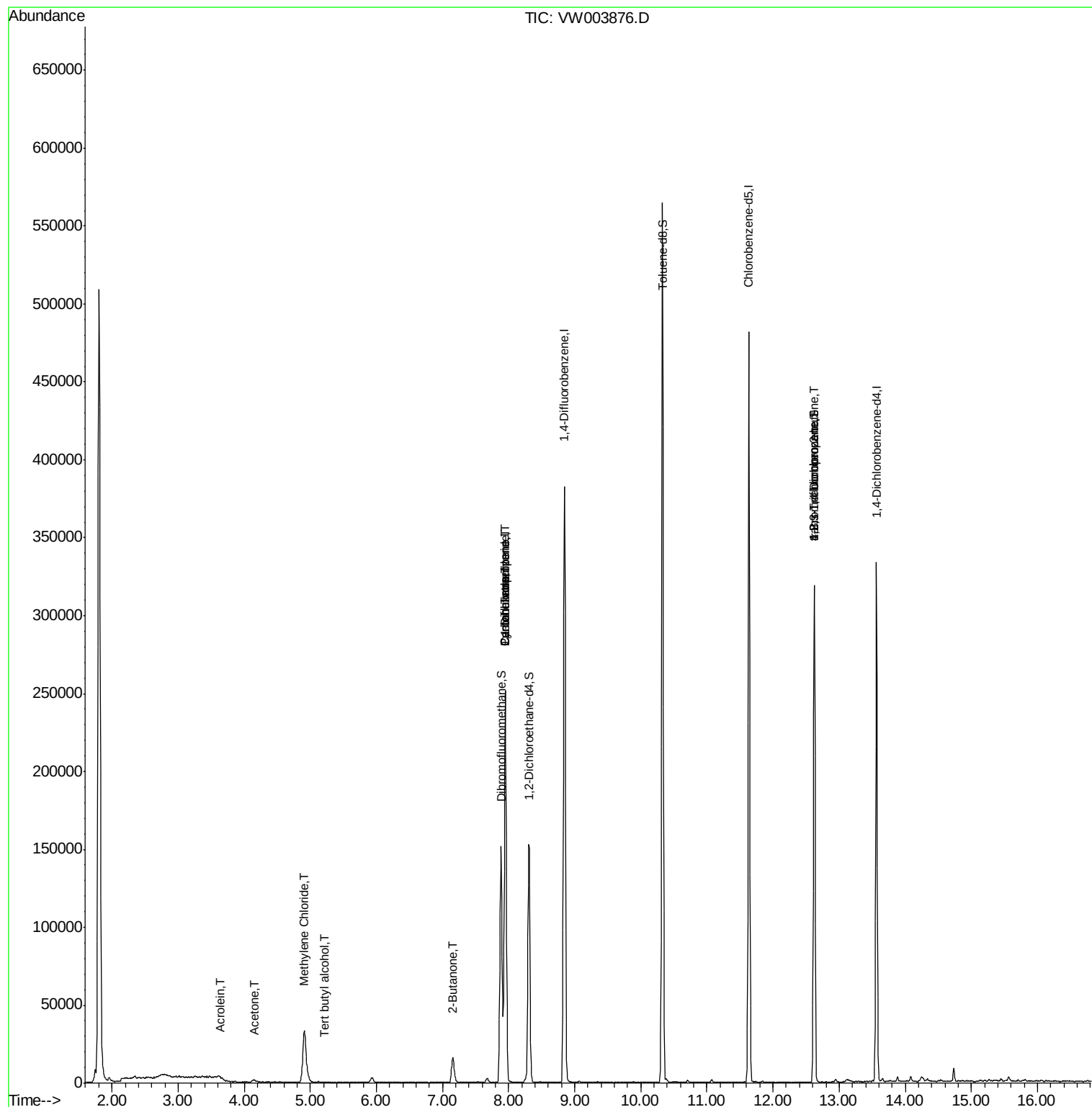
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.20  | 59   | 160      | 1.252   | ug/l # | 70     |
| 13) Acrolein                   | 3.64  | 56   | 30       | 4.881   | ug/l # | 1      |
| 16) Acetone                    | 4.15  | 43   | 2652     | 6.483   | ug/l   | 98     |
| 20) Methylene Chloride         | 4.91  | 84   | 28720    | 10.984  | ug/l   | 98     |
| 25) 2-Butanone                 | 7.15  | 43   | 1206     | 1.882   | ug/l   | 98     |
| 31) Cyclohexane                | 7.95  | 56   | 4846     | 1.408   | ug/l # | 25     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 15307    | 4.718   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 18131    | 5.878   | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 53162    | 64.060  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 53162    | 156.707 | ug/l # | 8      |

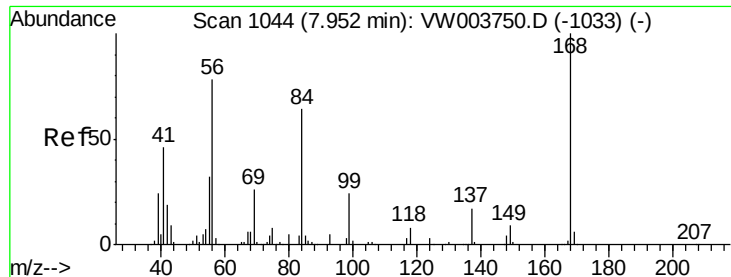
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Jul 07 05:07:25 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: VW003876.D

Acq: 11 Jul 2018 20:59

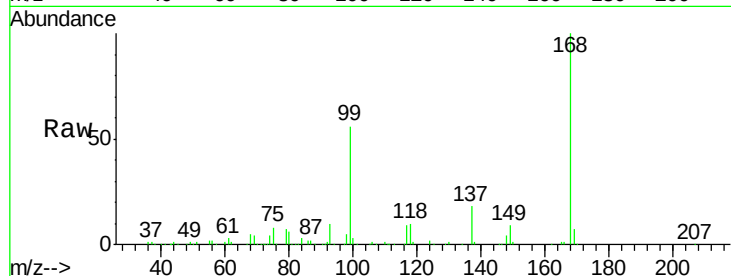
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 180307

Ion Ratio Lower Upper

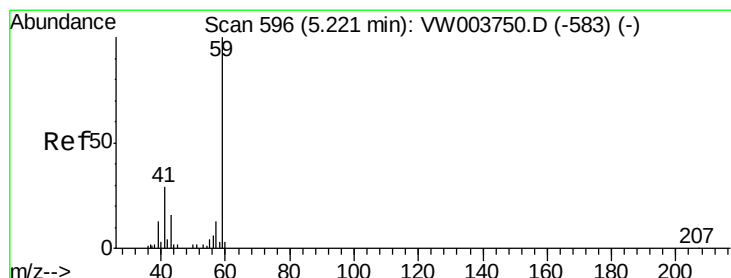
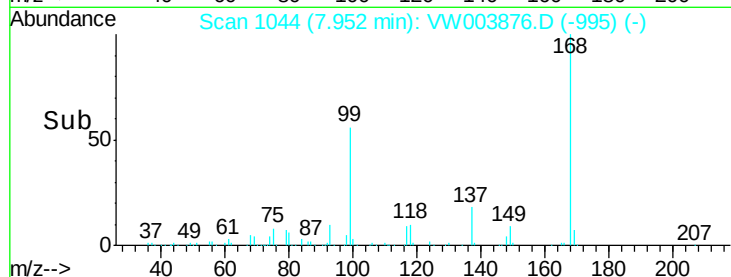
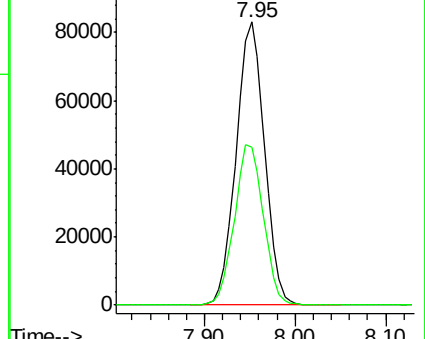
168 100

99 56.0 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.252 ug/l

RT: 5.20 min Scan# 593

Delta R.T. -0.02 min

Lab File: VW003876.D

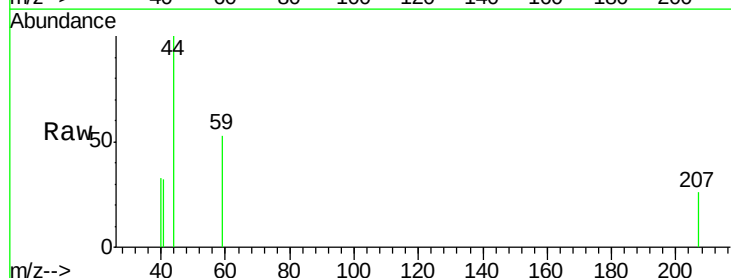
Acq: 11 Jul 2018 20:59

Tgt Ion: 59 Resp: 160

Ion Ratio Lower Upper

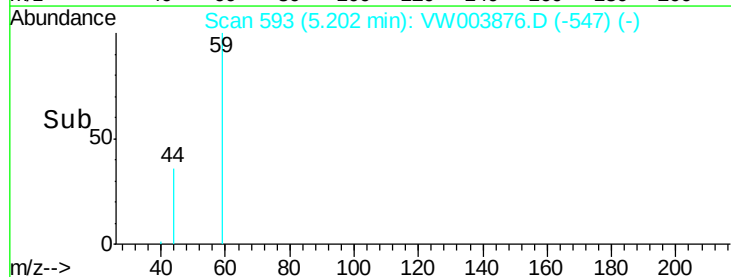
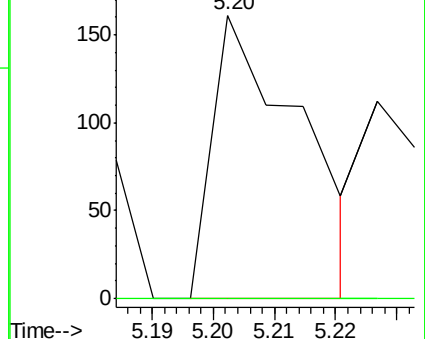
59 100

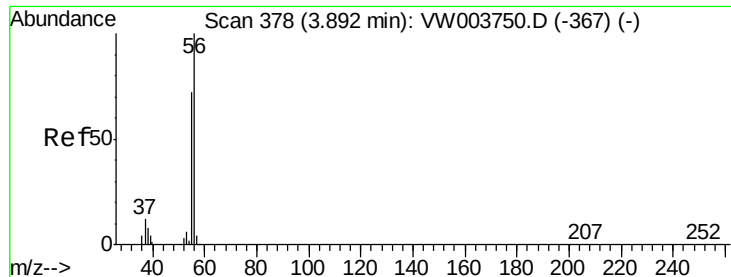
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 4.881 ug/l

RT: 3.64 min Scan# 337

Delta R.T. -0.25 min

Lab File: VW003876.D

Acq: 11 Jul 2018 20:59

Instrument :

MSVOA\_W

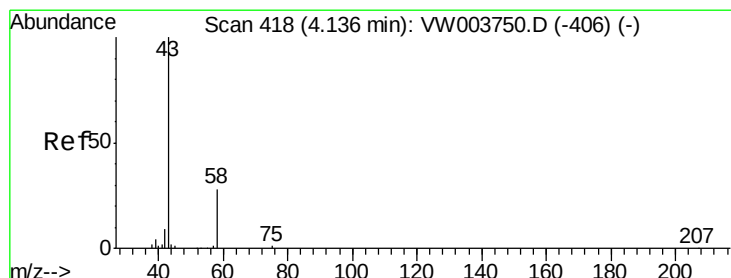
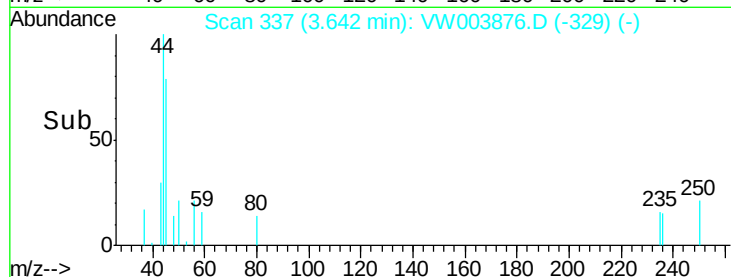
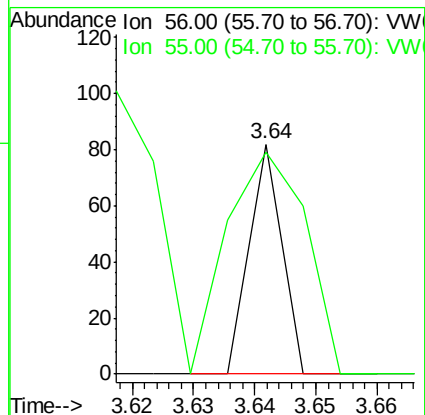
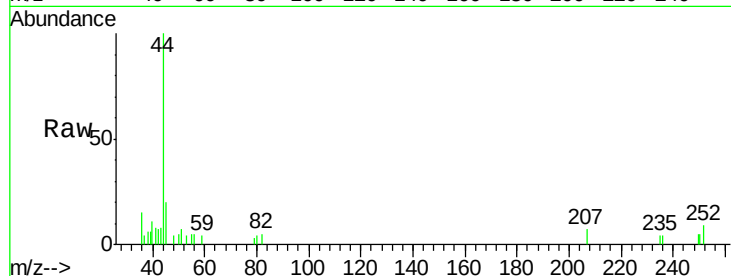
ClientSampleId :

Tot Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 236.7 57.5 86.3#



#16

Acetone

Concen: 6.483 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.01 min

Lab File: VW003876.D

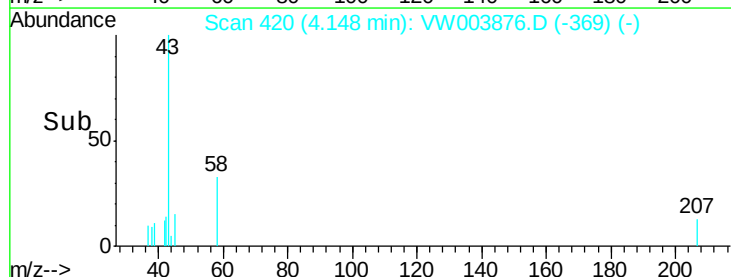
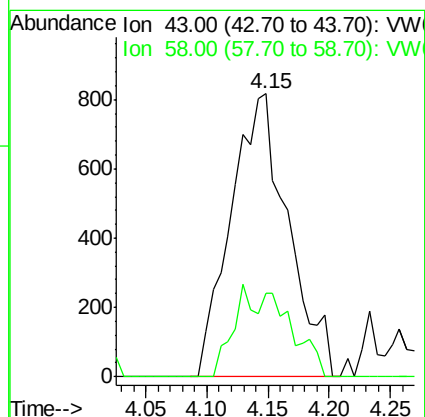
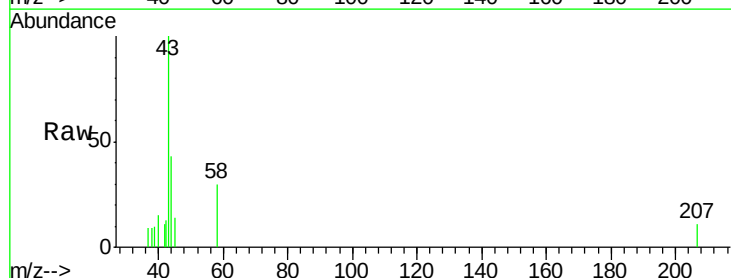
Acq: 11 Jul 2018 20:59

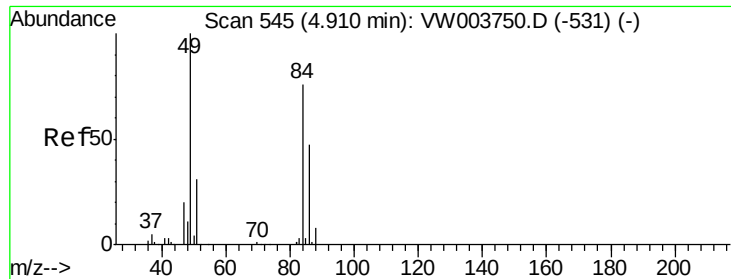
Tgt Ion: 43 Resp: 2652

Ion Ratio Lower Upper

43 100

58 29.6 22.6 34.0

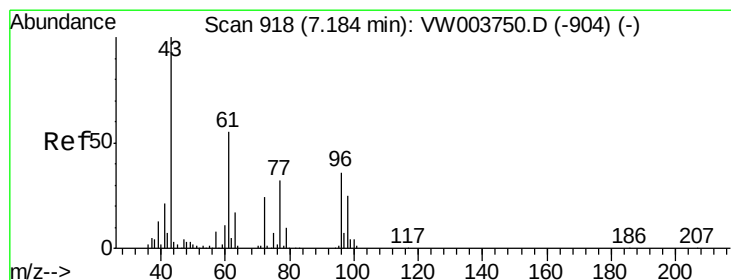
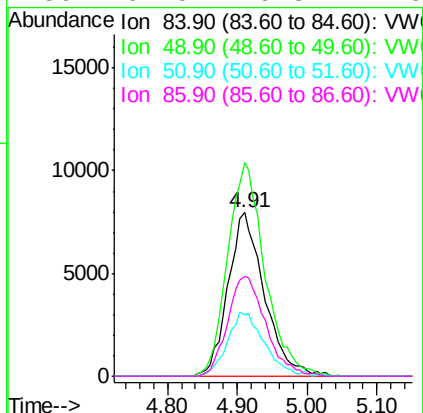
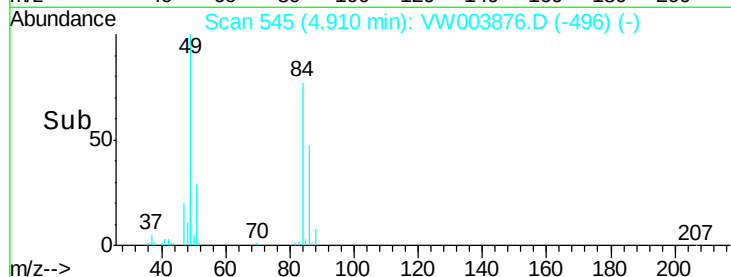
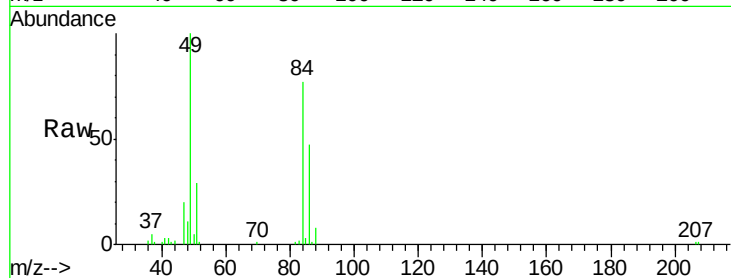




#20  
Methvlene Chloride  
Concen: 10.984 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: VW003876.D  
Acq: 11 Jul 2018 20:59

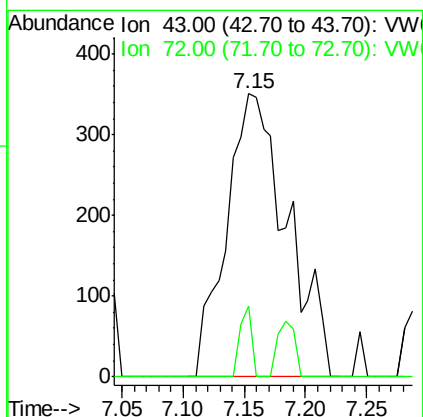
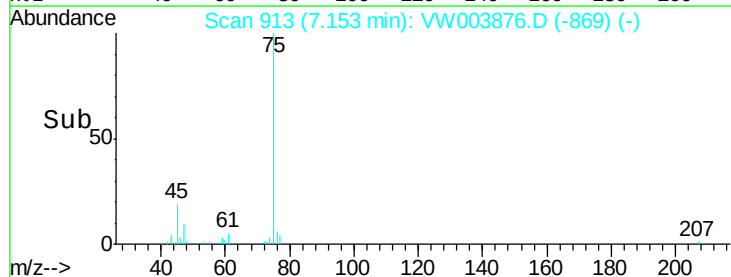
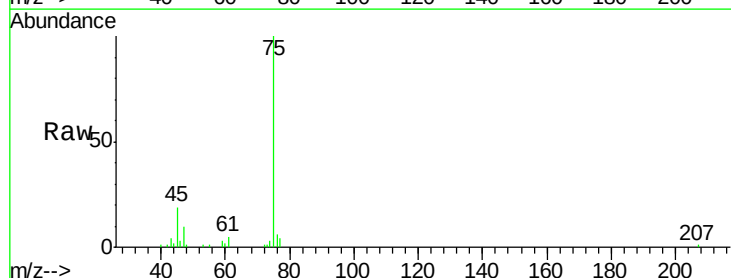
Instrument :  
MSVOA\_W  
ClientSampled :

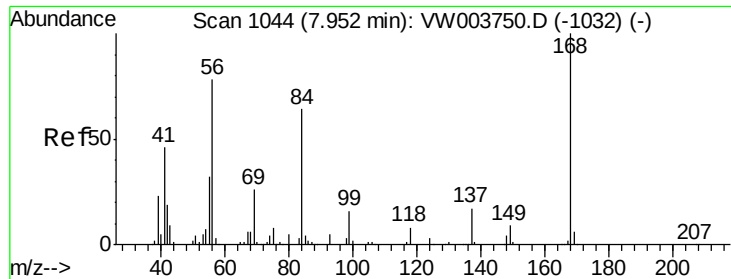
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 28720 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 130.5 | 105.1 | 157.7 |
| 51       | 37.5  | 32.5  | 48.7  |
| 86       | 61.0  | 49.8  | 74.6  |



#25  
2-Butanone  
Concen: 1.882 ug/l  
RT: 7.15 min Scan# 913  
Delta R.T. -0.03 min  
Lab File: VW003876.D  
Acq: 11 Jul 2018 20:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1206  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 25.1  | 19.4  | 29.2  |

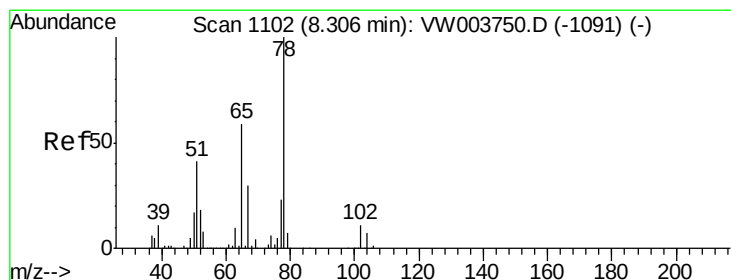
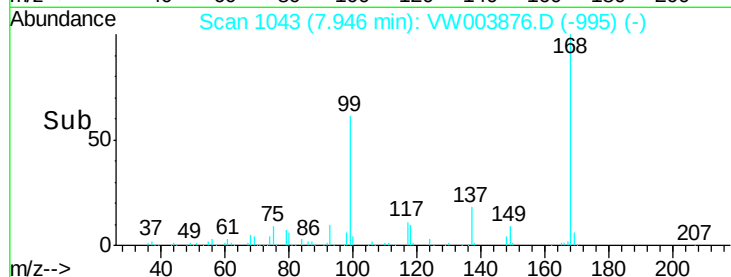
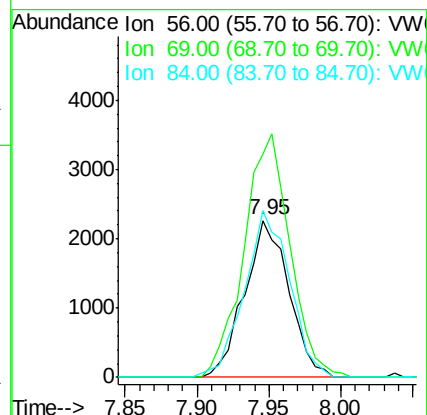
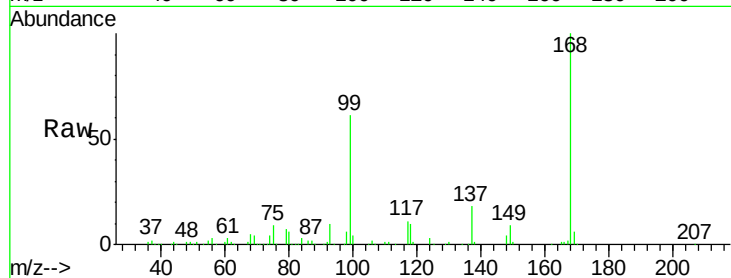




#31  
Cyclohexane  
Concen: 1.408 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW003876.D  
Acq: 11 Jul 2018 20:59

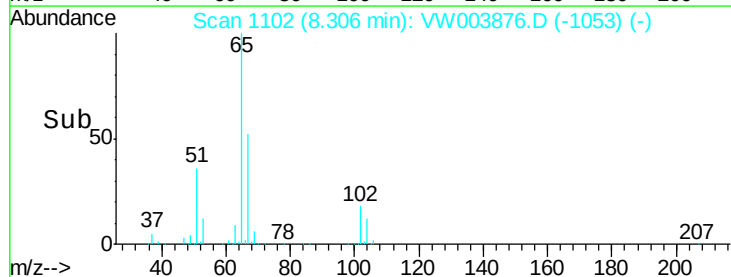
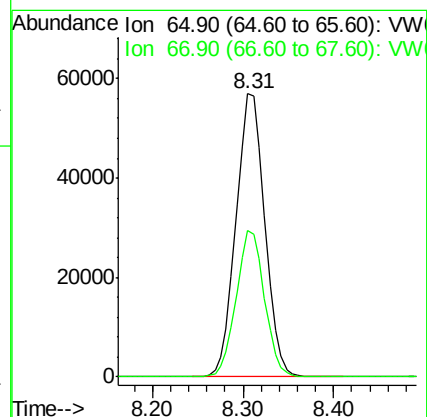
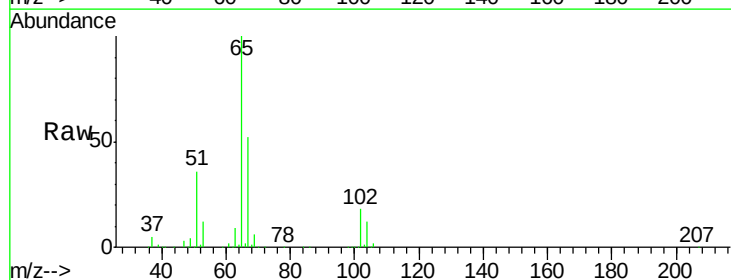
Instrument :  
MSVOA\_W  
ClientSampled :

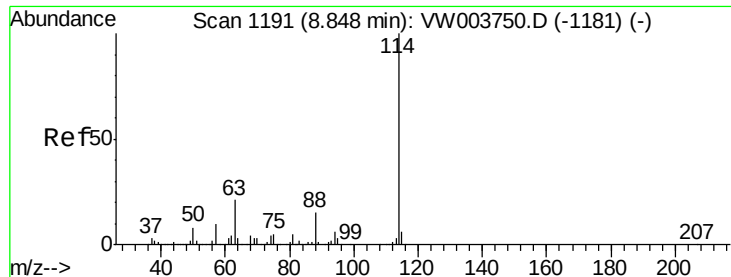
Tot Ion: 56 Resp: 4846  
Ion Ratio Lower Upper  
56 100  
69 141.9 26.2 39.4#  
84 105.9 65.5 98.3#



#33  
1,2-Dichloroethane-d4  
Concen: 53.338 ug/l  
RT: 8.31 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: VW003876.D  
Acq: 11 Jul 2018 20:59

Tgt Ion: 65 Resp: 125767  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 103.8

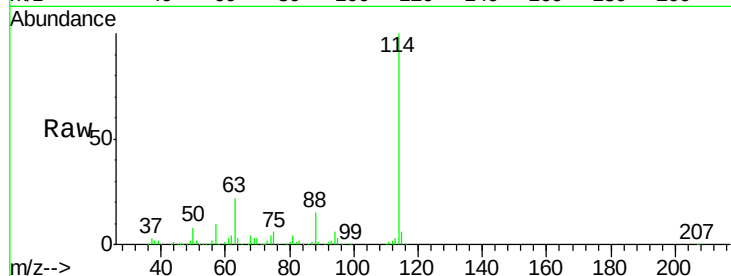




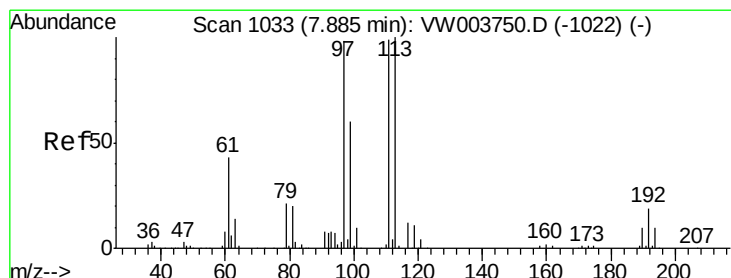
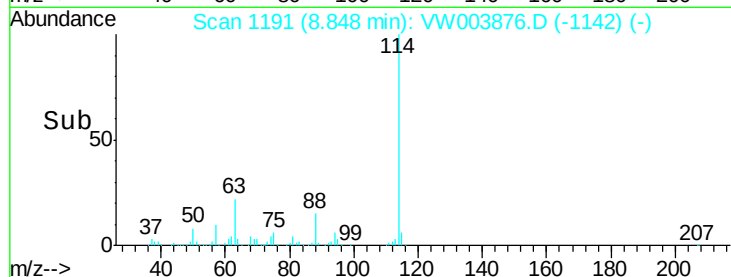
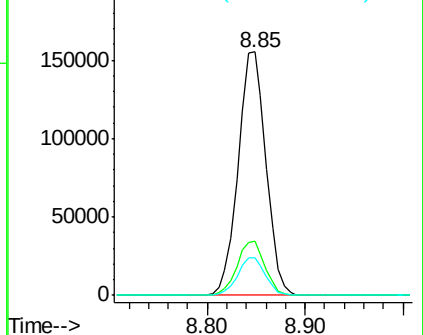
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW003876.D  
 Acq: 11 Jul 2018 20:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.1  | 0.0   | 41.8  |
| 88      | 15.4  | 0.0   | 30.2  |

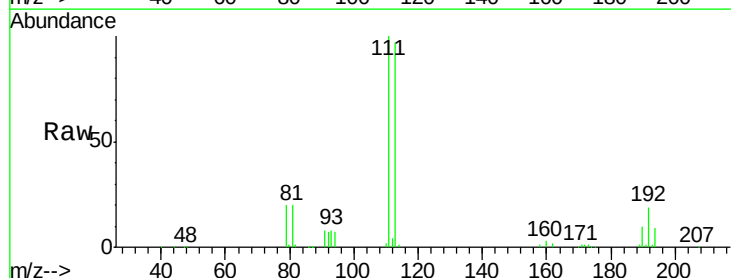


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

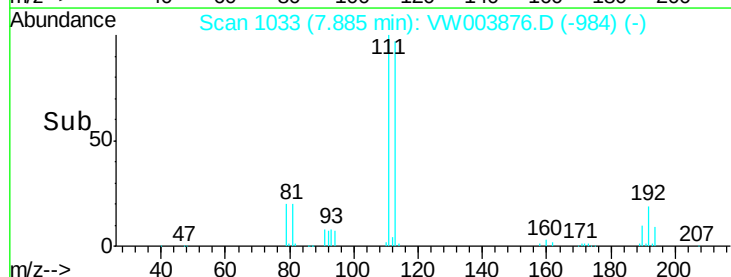
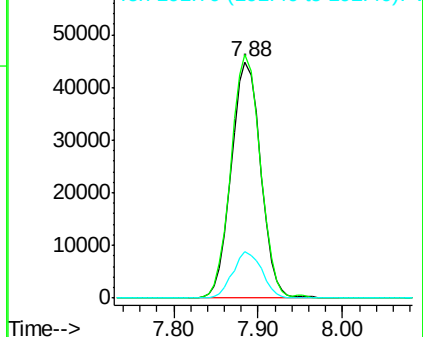


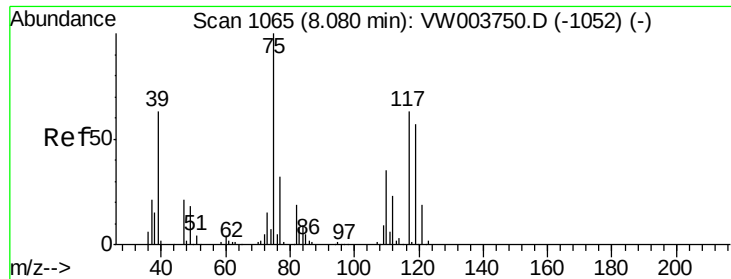
#35  
 Dibromofluoromethane  
 Concen: 49.365 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW003876.D  
 Acq: 11 Jul 2018 20:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 81.7  | 122.5 |
| 192     | 19.4  | 15.8  | 23.8  |



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

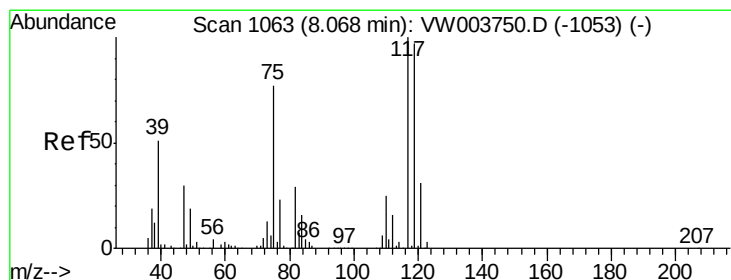
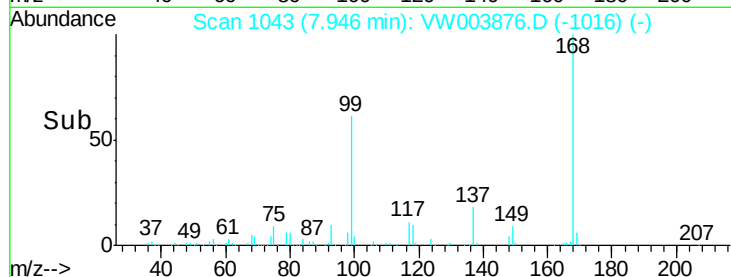
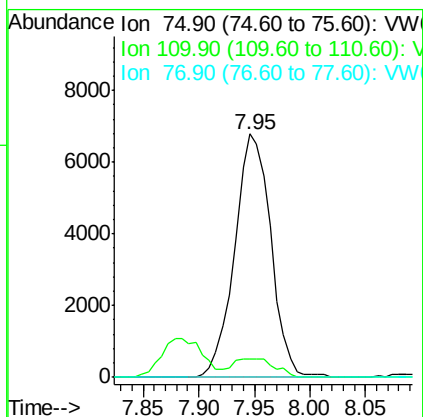
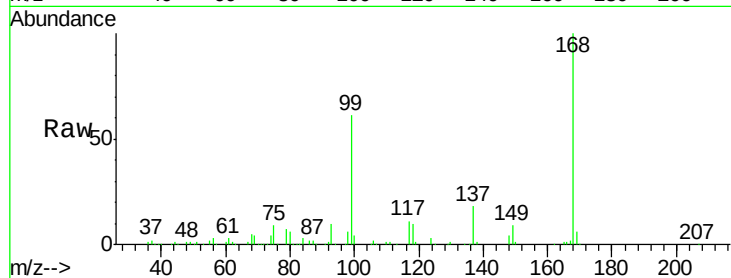




#36  
 1,1-Dichloropropene  
 Concen: 4.718 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.13 min  
 Lab File: VW003876.D  
 Acq: 11 Jul 2018 20:59

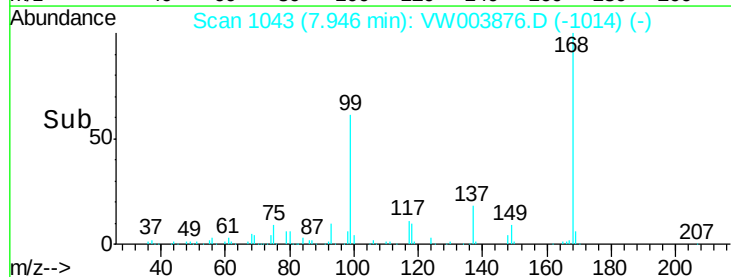
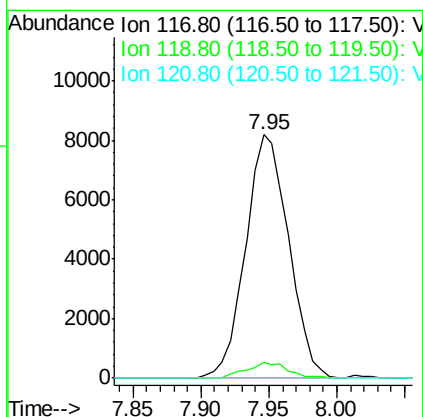
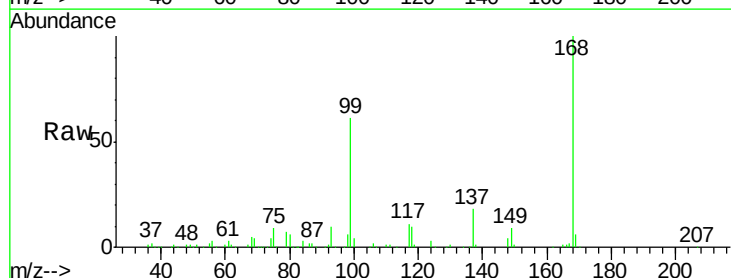
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 75 Resp: 15307  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 16.9 50.6#  
 77 0.0 24.8 37.2#

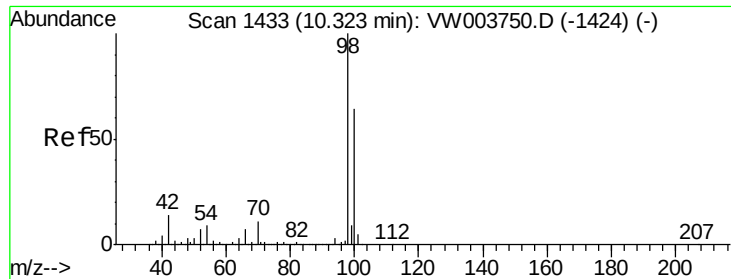


#38  
 Carbon Tetrachloride  
 Concen: 5.878 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.12 min  
 Lab File: VW003876.D  
 Acq: 11 Jul 2018 20:59

Tgt Ion: 117 Resp: 18131  
 Ion Ratio Lower Upper  
 117 100  
 119 6.3 77.4 116.2#  
 121 0.0 24.6 37.0#



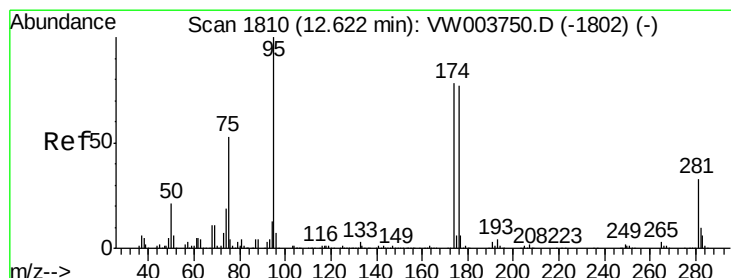
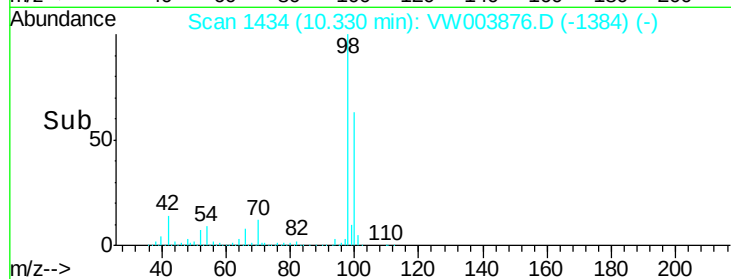
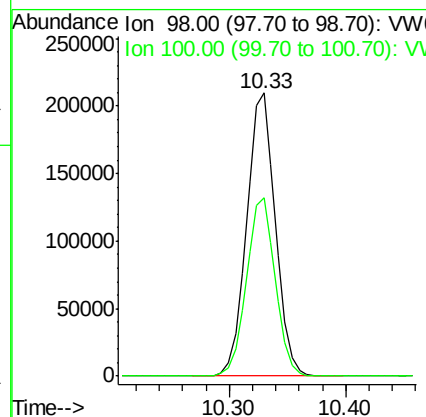
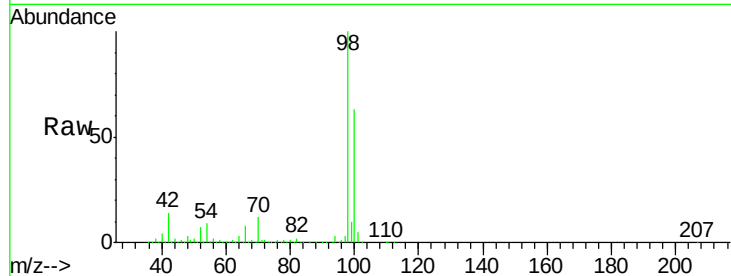




#50  
Toluene-d8  
Concen: 43.857 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. 0.01 min  
Lab File: VW003876.D  
Acq: 11 Jul 2018 20:59

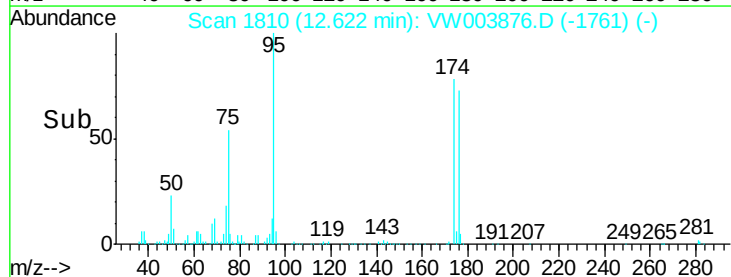
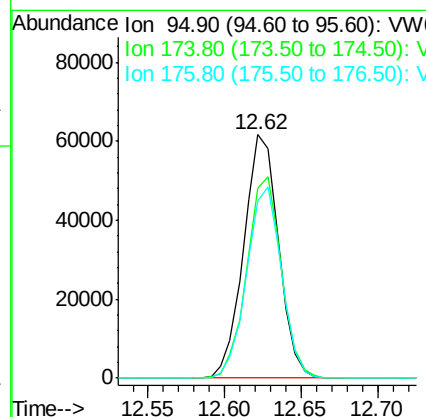
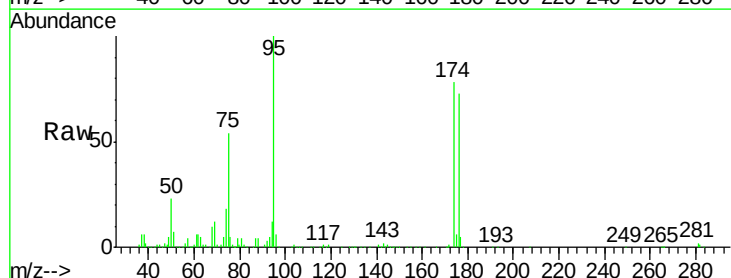
Instrument :  
MSVOA\_W  
ClientSampleId :

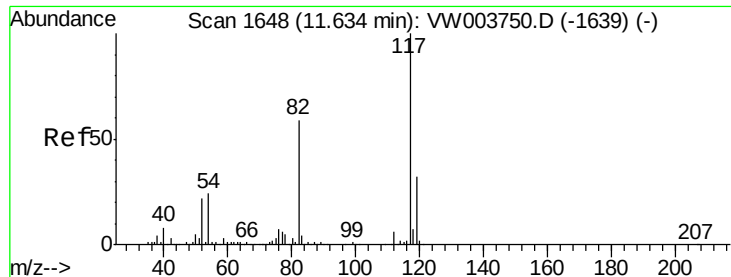
Tot Ion: 98 Resp: 358993  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.8 76.2



#62  
4-Bromofluorobenzene  
Concen: 32.967 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW003876.D  
Acq: 11 Jul 2018 20:59

Tgt Ion: 95 Resp: 97636  
Ion Ratio Lower Upper  
95 100  
174 81.8 0.0 163.4  
176 78.3 0.0 156.8

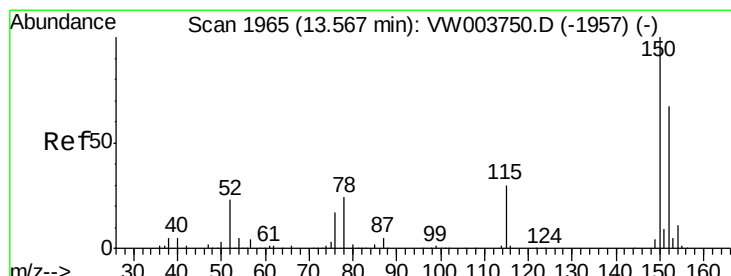
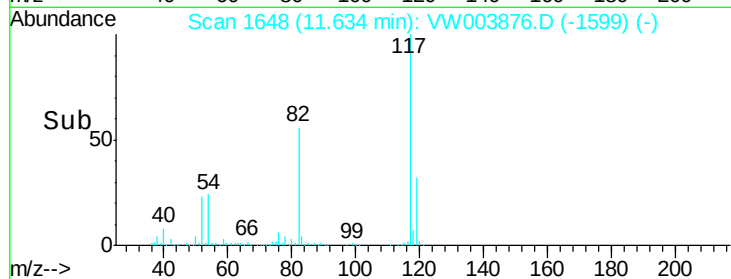
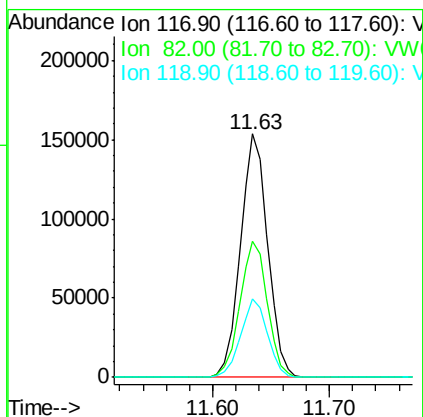
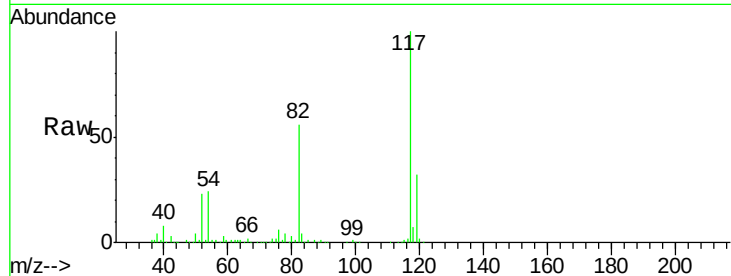




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003876.D  
Acq: 11 Jul 2018 20:59

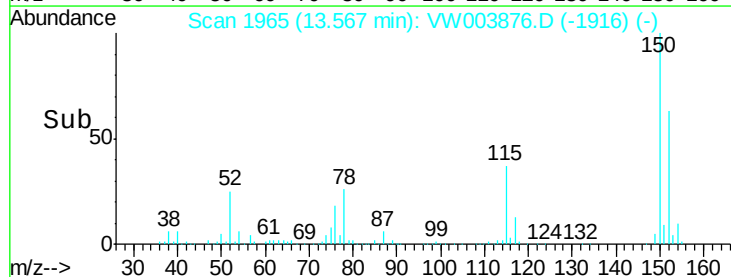
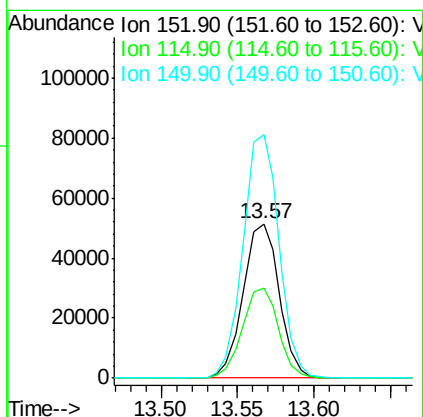
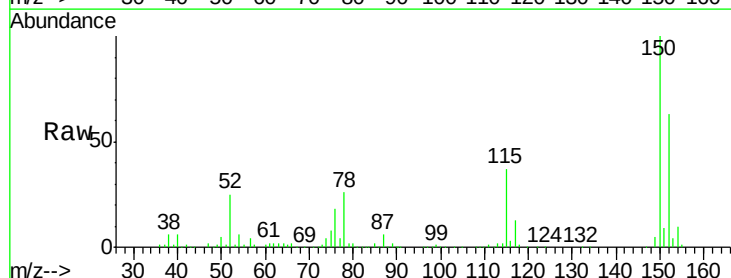
Instrument :  
MSVOA\_W  
ClientSampleId :

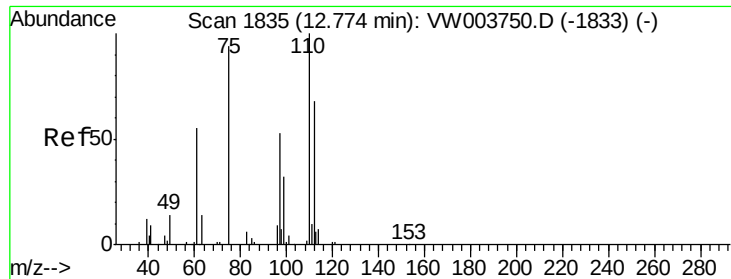
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.8  | 46.9  | 70.3  |
| 119     | 32.2  | 25.5  | 38.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW003876.D  
Acq: 11 Jul 2018 20:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.3  | 28.9  | 86.8  |
| 150     | 156.7 | 0.0   | 342.4 |

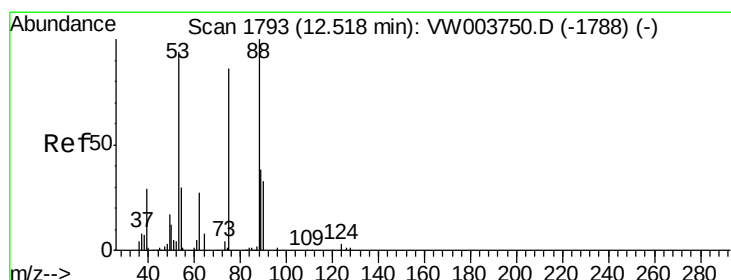
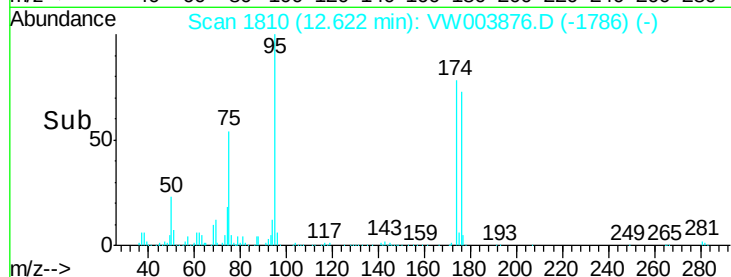
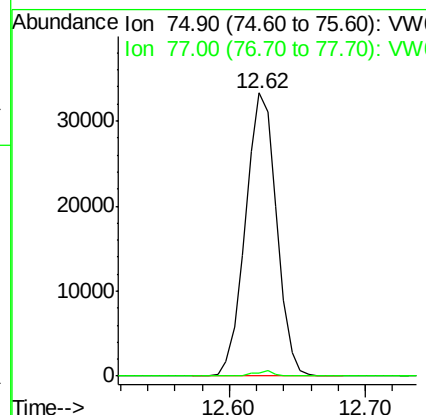
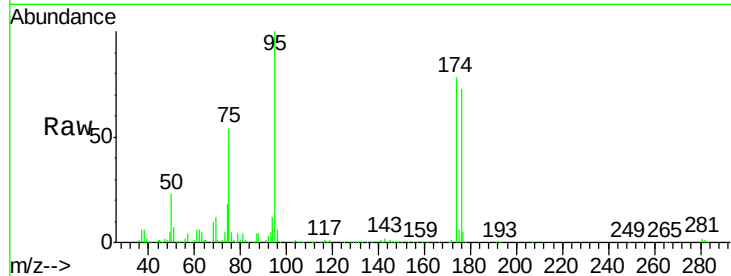




#76  
 1,2,3-Trichloropropane  
 Concen: 64.060 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. -0.15 min  
 Lab File: VW003876.D  
 Acq: 11 Jul 2018 20:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 75 Resp: 53162  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 156.707 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. 0.10 min  
 Lab File: VW003876.D  
 Acq: 11 Jul 2018 20:59

Tgt Ion: 75 Resp: 53162  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 85.0 127.6#  
 89 0.0 36.3 54.5#

