

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080919\  
 Data File : VW011777.D  
 Acq On : 08 Aug 2019 16:38  
 Operator : SY/VA  
 Sample : K4215-03MSD  
 Misc : 5.45G/10ML/MSVOA W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ETOB4MSD

Quant Time: Aug 09 04:50:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM073019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 09 02:27:11 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 212293   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 84307    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 12418    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 91732    | 30.69    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 122.76%  |
| 7) Chloroethane-d5             | 2.88   | 69    | 73796    | 34.27    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 137.08%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 222243   | 32.43    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 129.72%# |
| 20) 2-Butanone-d5              | 7.08   | 46    | 113751   | 84.51    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 169.02%# |
| 24) Chloroform-d               | 7.65   | 84    | 166205   | 28.51    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 114.04%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 99221    | 28.76    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 115.04%  |
| 29) Benzene-d6                 | 8.27   | 84    | 319719   | 60.31    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 241.24%# |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 102072   | 59.64    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 238.56%# |
| 37) Toluene-d8                 | 10.32  | 98    | 186969   | 39.74    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 158.96%# |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 21610    | 28.81    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 115.24%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 47534    | 118.91   | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 237.82%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 62713    | 44.12    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 176.48%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 14169    | 29.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 118.44%  |

## Target Compounds

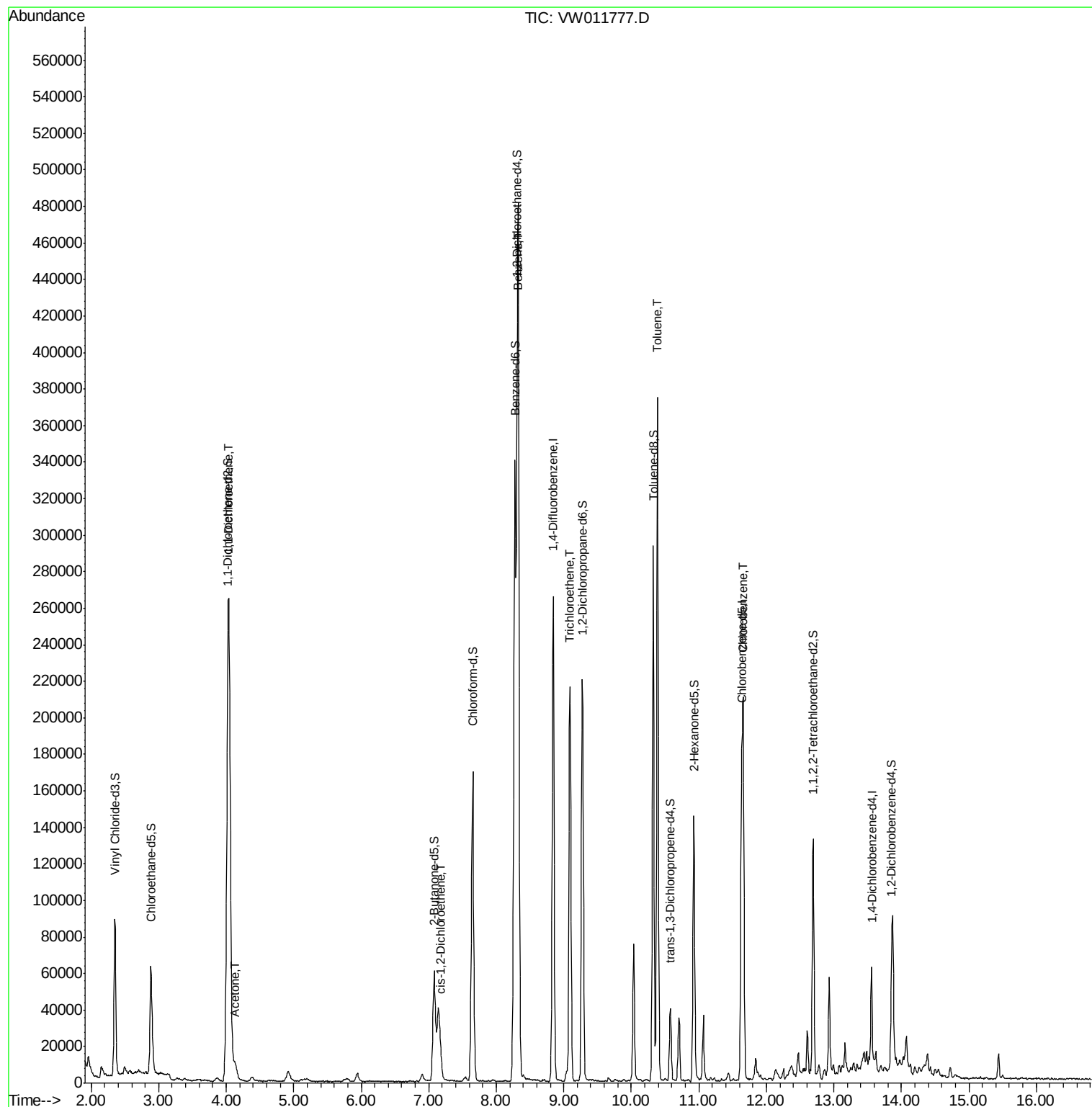
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Ovalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 12) 1,1-Dichloroethene     | 4.04  | 96   | 107802   | 35.356 | ug/L  | 96     |
| 13) Acetone                | 4.13  | 43   | 13844    | 9.603  | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene | 7.18  | 96   | 5743     | 1.743  | ug/L  | 86     |
| 34) Benzene                | 8.32  | 78   | 399977   | 67.701 | ug/L  | 100    |
| 35) Trichloroethene        | 9.09  | 95   | 77195    | 51.469 | ug/L  | 99     |
| 44) Toluene                | 10.39 | 91   | 265294   | 44.198 | ug/L  | 99     |
| 52) Chlorobenzene          | 11.66 | 112  | 97839    | 27.017 | ug/L  | 98     |

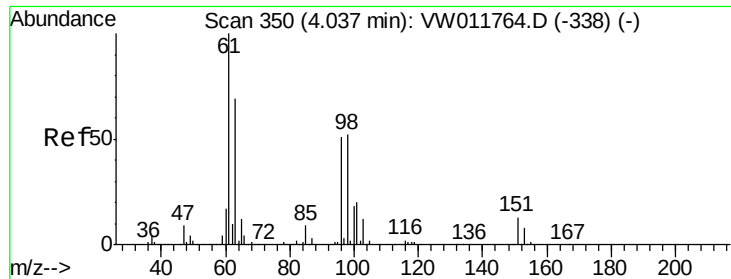
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 09 04:50:09 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM073019S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 09 02:27:11 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 35.356 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW011777.D

Acq: 08 Aug 2019 16:38

Instrument :

MSVOA\_W

ClientSampleId :

ETOB4MSD

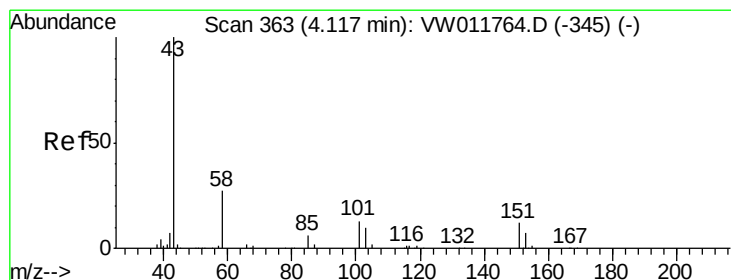
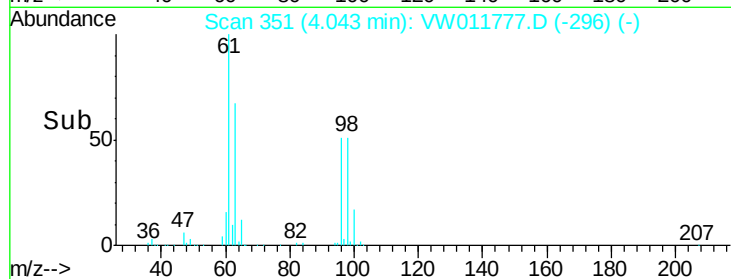
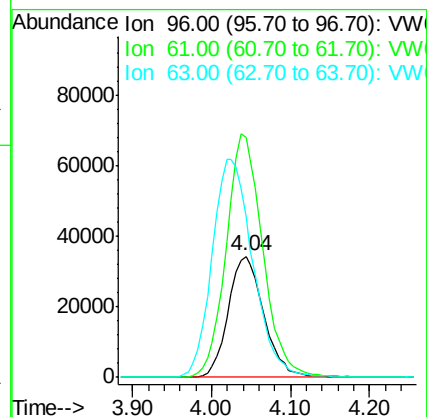
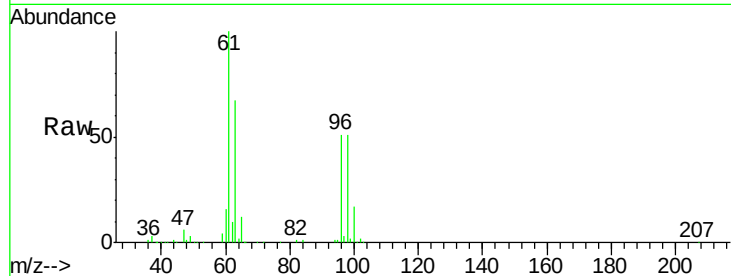
Tot Ion: 96 Resp: 107802

Ion Ratio Lower Upper

96 100

61 197.6 135.0 250.8

63 132.5 89.2 165.8



#13

Acetone

Concen: 9.603 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW011777.D

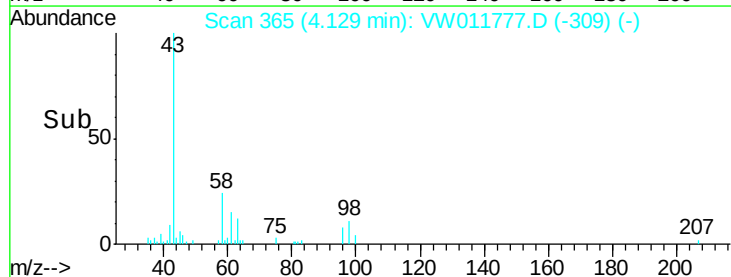
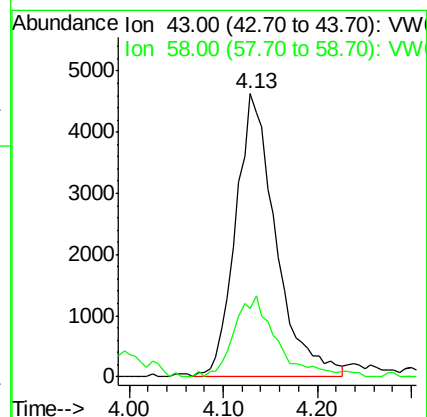
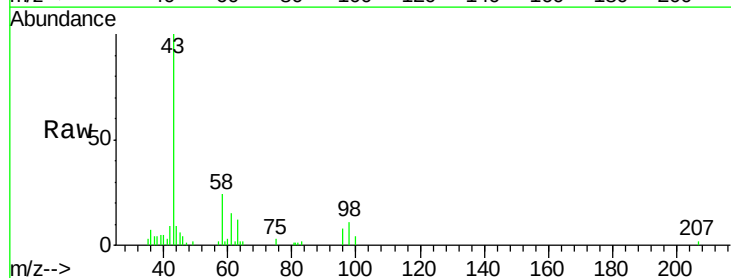
Acq: 08 Aug 2019 16:38

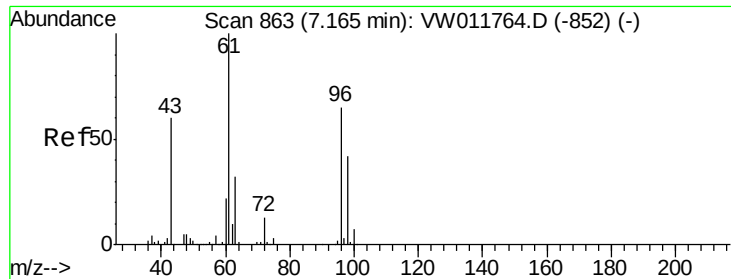
Tgt Ion: 43 Resp: 13844

Ion Ratio Lower Upper

43 100

58 26.2 0.0 53.4



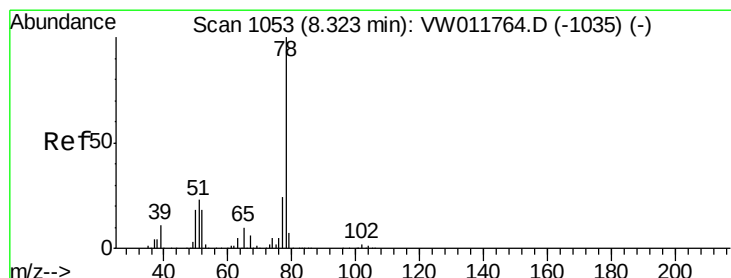
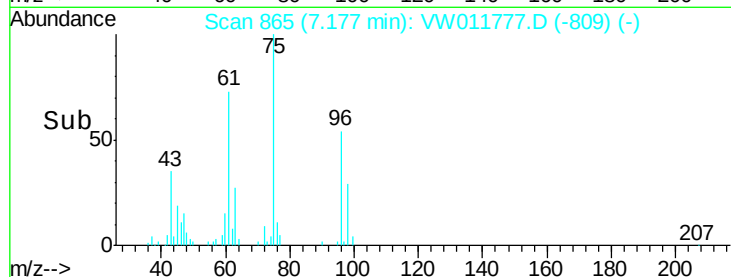
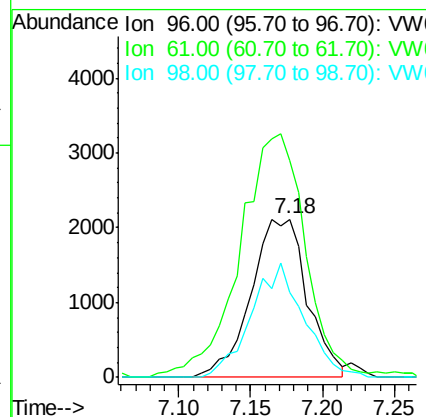
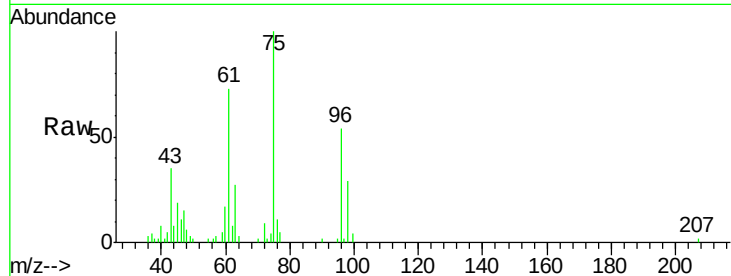


#22

cis-1,2-Dichloroethene  
 Concen: 1.743 ug/L  
 RT: 7.18 min Scan# 865  
 Delta R.T. 0.01 min  
 Lab File: VW011777.D  
 Acq: 08 Aug 2019 16:38

Instrument :  
 MSVOA\_W  
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 ETOB4MSD

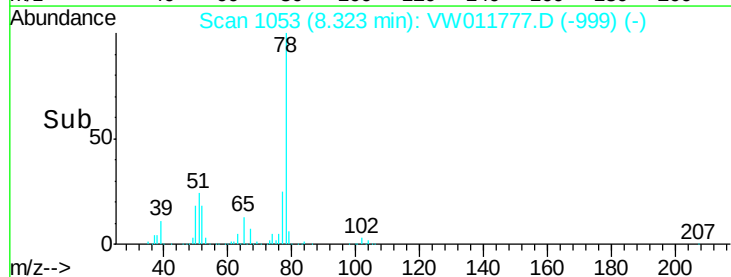
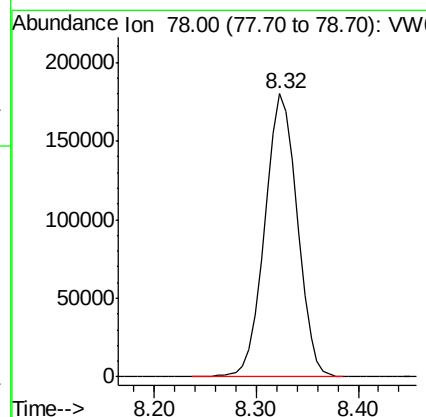
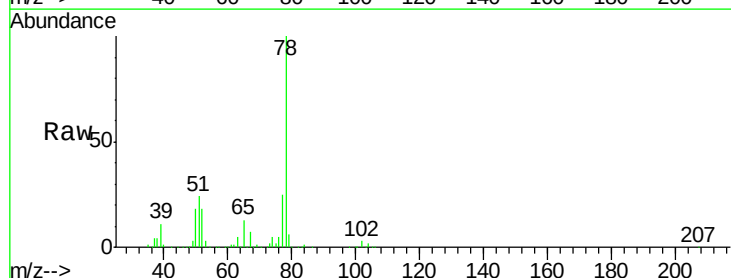
Tot Ion: 96 Resp: 5743  
 Ion Ratio Lower Upper  
 96 100  
 61 131.3 103.9 192.9  
 98 51.7 43.5 80.9

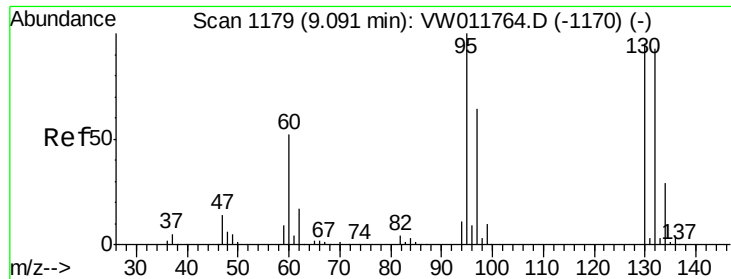


#34

Benzene  
 Concen: 67.701 ug/L  
 RT: 8.32 min Scan# 1053  
 Delta R.T. -0.00 min  
 Lab File: VW011777.D  
 Acq: 08 Aug 2019 16:38

Tgt Ion: 78 Resp: 399977

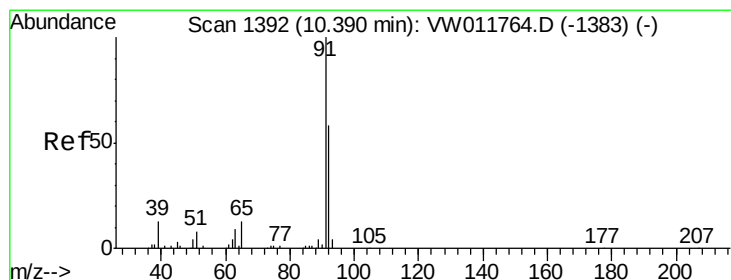
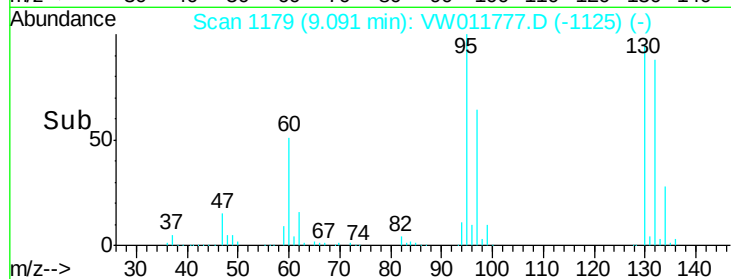
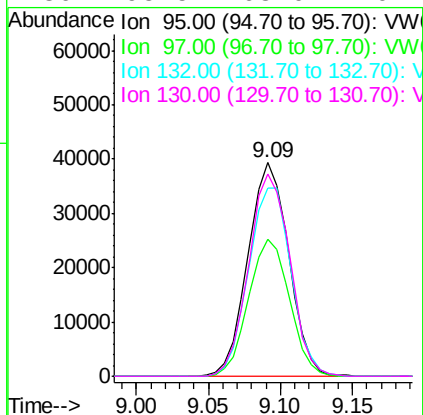
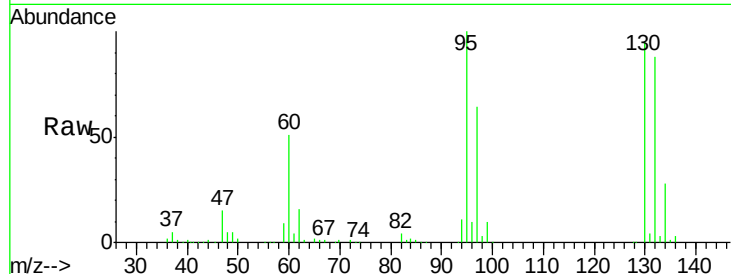




#35  
 Trichloroethene  
 Concen: 51.469 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: VW011777.D  
 Acq: 08 Aug 2019 16:38

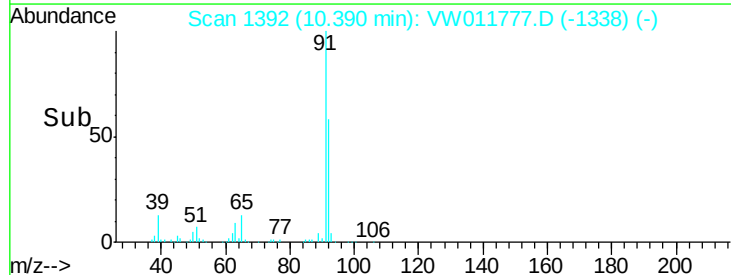
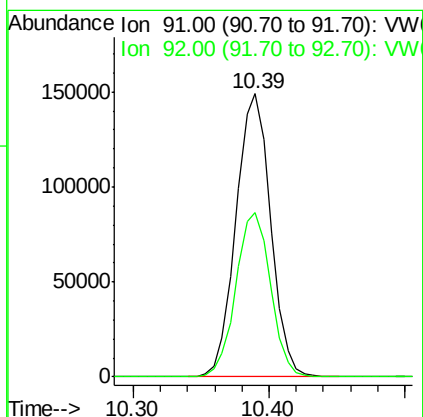
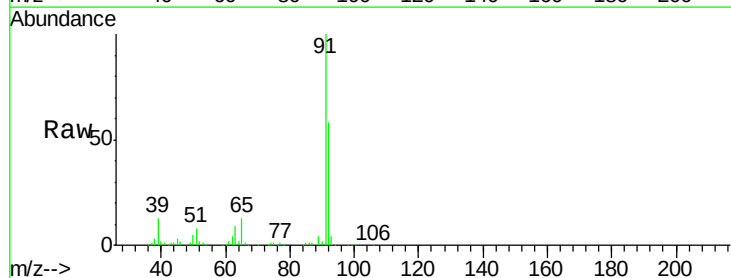
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ETOB4MSD

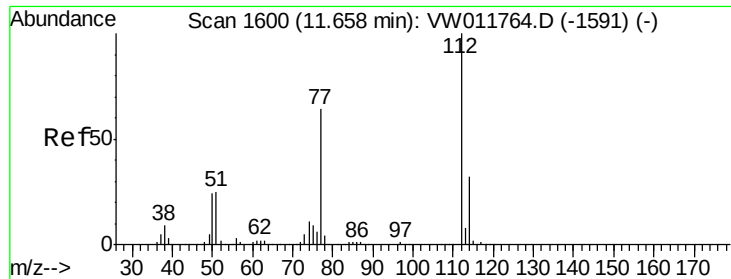
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 77195 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 64.2  | 44.8  | 83.2  |
| 132      | 91.8  | 65.0  | 120.6 |
| 130      | 95.5  | 68.0  | 126.4 |



#44  
 Toluene  
 Concen: 44.198 ug/L  
 RT: 10.39 min Scan# 1392  
 Delta R.T. -0.00 min  
 Lab File: VW011777.D  
 Acq: 08 Aug 2019 16:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 265294 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 57.9  | 40.9  | 76.0   |





#52

Chlorobenzene

Concen: 27.017 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW011777.D

Acq: 08 Aug 2019 16:38

Instrument :

MSVOA\_W

ClientSampleId :

ETOB4MSD

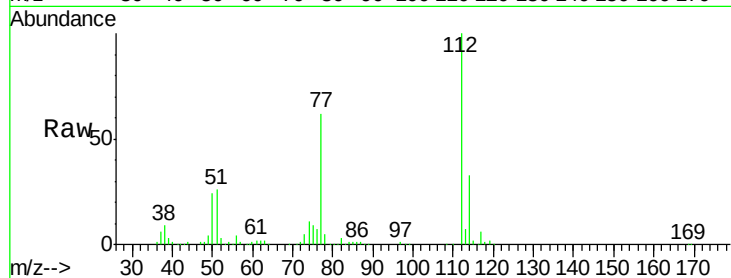
Tot Ion:112 Resp: 97839

Ion Ratio Lower Upper

112 100

77 62.4 51.0 76.4

114 32.9 22.4 41.6



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

