

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041919\  
 Data File : VW010069.D  
 Acq On : 19 Apr 2019 16:43  
 Operator : SY/VA  
 Sample : VIBLK  
 Misc : 5.08G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Apr 20 03:54:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 20 03:50:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 782073   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 754315   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 370692   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 166650   | 22.55    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.20% |
| 7) Chloroethane-d5             | 2.89   | 69    | 131937   | 17.62    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 70.48% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 325810   | 15.90    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 63.60% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 166397   | 41.62    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 83.24% |
| 24) Chloroform-d               | 7.65   | 84    | 442849   | 19.59    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 78.36% |
| 26) 1,2-Dichloroethane-d4      | 8.39   | 65    | 379      | 0.03     | ug/L | 0.09   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 0.12%# |
| 29) Benzene-d6                 | 8.27   | 84    | 894767   | 21.59    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 86.36% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 283372   | 21.46    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 85.84% |
| 37) Toluene-d8                 | 10.32  | 98    | 827742   | 21.89    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.56% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 127513   | 20.37    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 81.48% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 131762   | 45.04    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.08% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 243286   | 19.70    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 78.80% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 297940   | 21.38    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 85.52% |

## Target Compounds

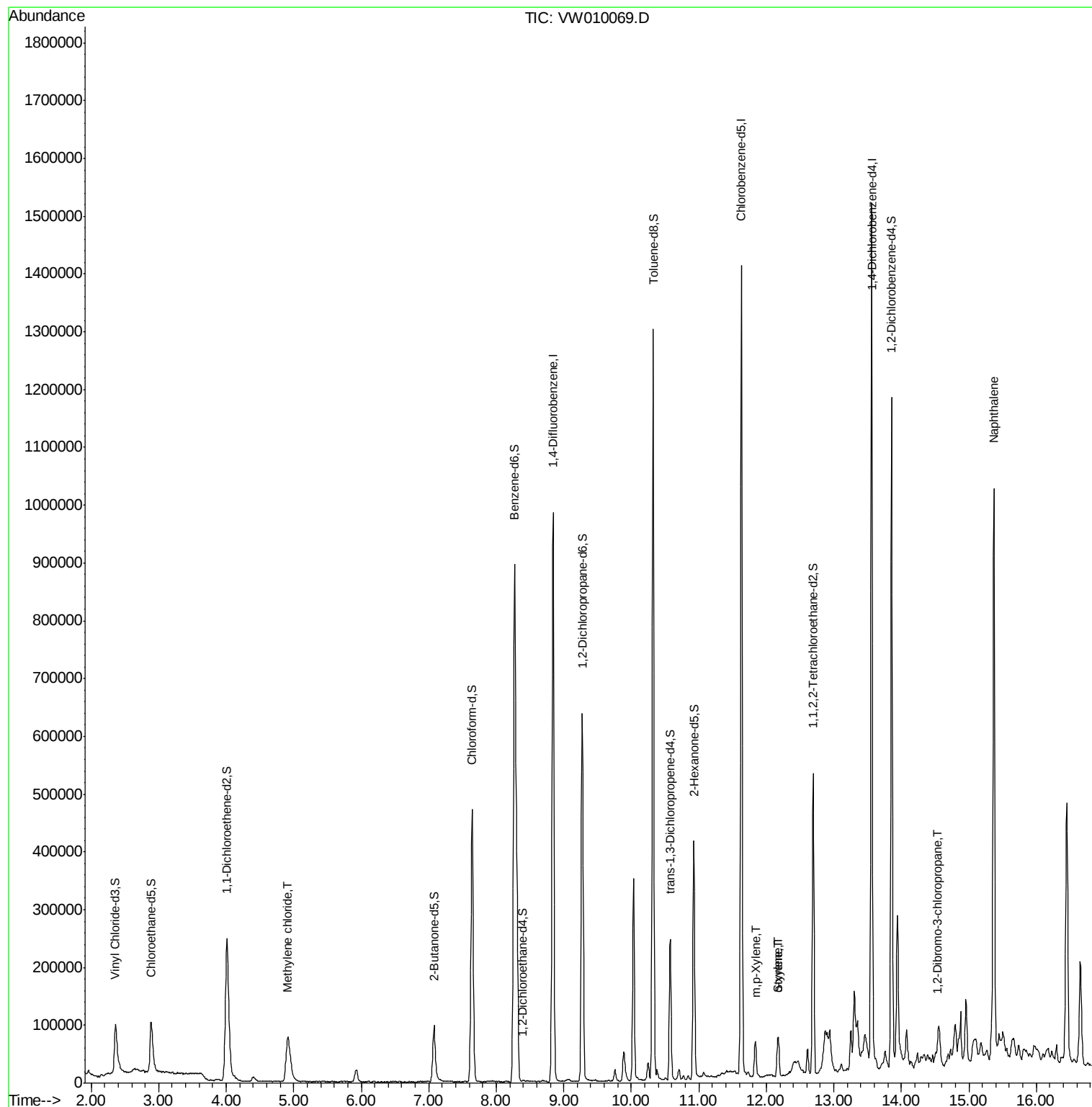
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Methylene chloride         | 4.92  | 84   | 79575    | 5.619  | ug/L   | 89     |
| 54) m,p-Xylene                 | 11.84 | 106  | 19231    | 0.998  | ug/L   | 93     |
| 55) o-xylene                   | 12.17 | 106  | 10641    | 0.576  | ug/L   | 94     |
| 56) Styrene                    | 12.18 | 104  | 22994    | 0.711  | ug/L   | 98     |
| 66) 1,2-Dibromo-3-chloropropan | 14.54 | 75   | 3999     | 1.798  | ug/L # | 24     |
| 69) Naphthalene                | 15.37 | 128  | 822651   | 28.521 | ug/L   | 100    |

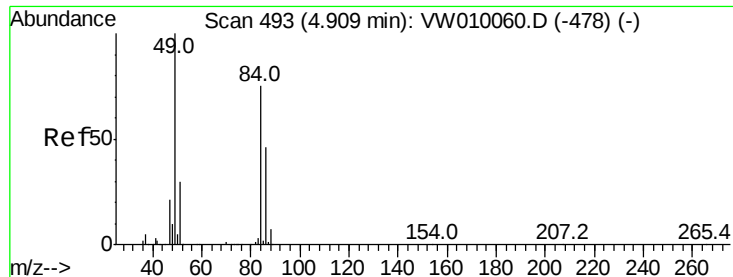
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :

Quant Time: Apr 20 03:54:28 2019  
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QLast Update : Sat Apr 20 03:50:46 2019  
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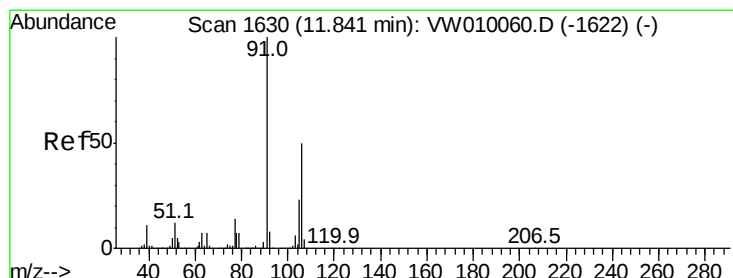
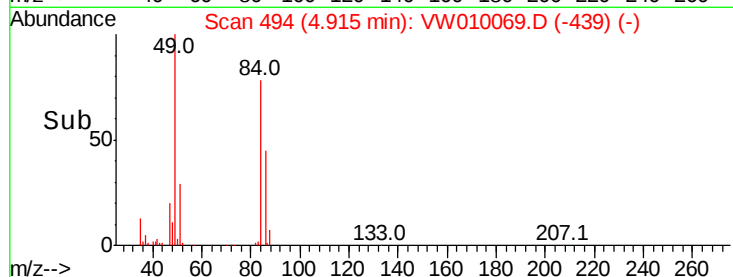
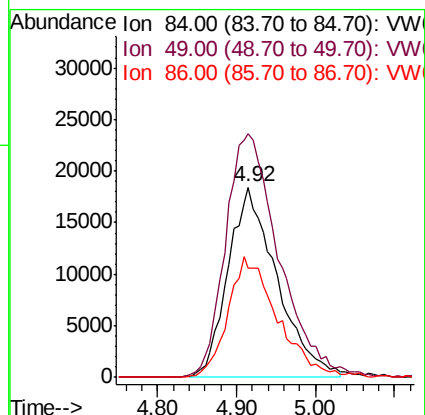
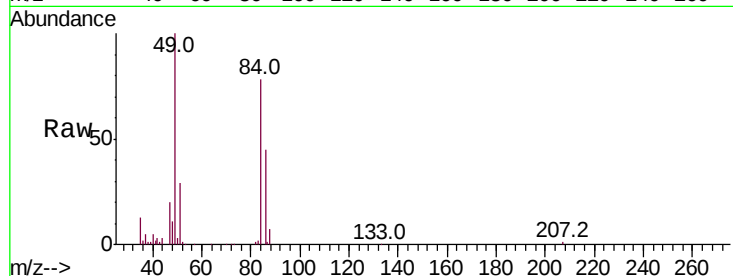




#16  
Methvlene chloride  
Concen: 5.619 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW010069.D  
Acq: 19 Apr 2019 16:43

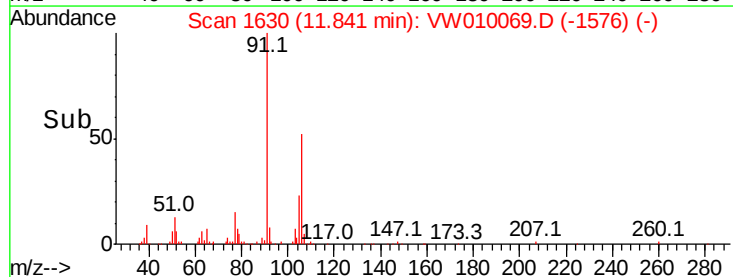
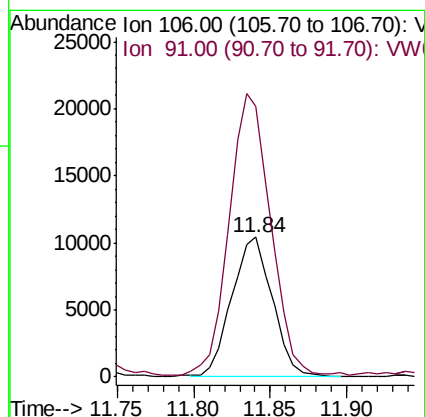
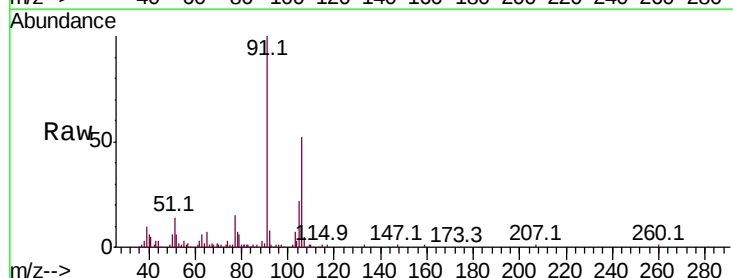
Instrument :  
MSVOA\_W  
ClientSampleId :

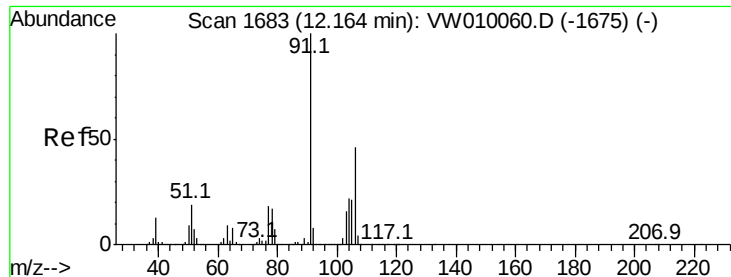
Tot Ion: 84 Resp: 79575  
Ion Ratio Lower Upper  
84 100  
49 127.9 100.7 187.1  
86 57.6 43.8 81.3



#54  
m,p-Xylene  
Concen: 0.998 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW010069.D  
Acq: 19 Apr 2019 16:43

Tgt Ion:106 Resp: 19231  
Ion Ratio Lower Upper  
106 100  
91 193.5 143.4 266.2





#55

o-xylene

Concen: 0.576 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW010069.D

Acq: 19 Apr 2019 16:43

Instrument :

MSVOA\_W

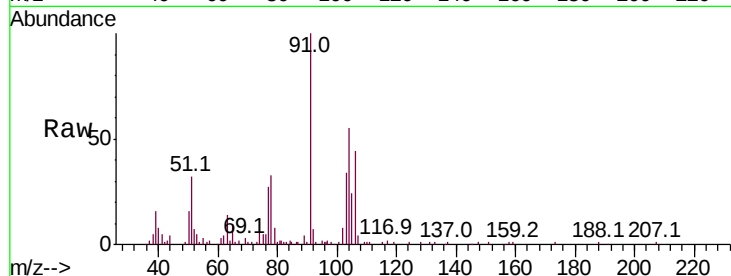
ClientSampleId :

Tot Ion:106 Resp: 10641

Ion Ratio Lower Upper

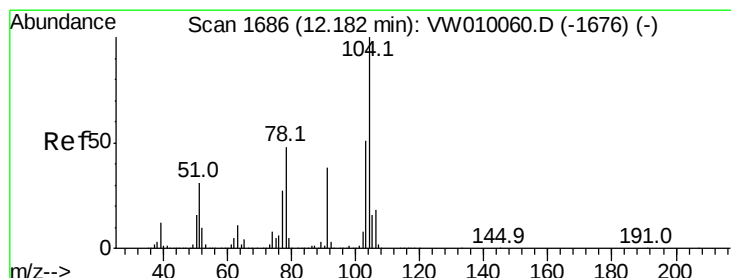
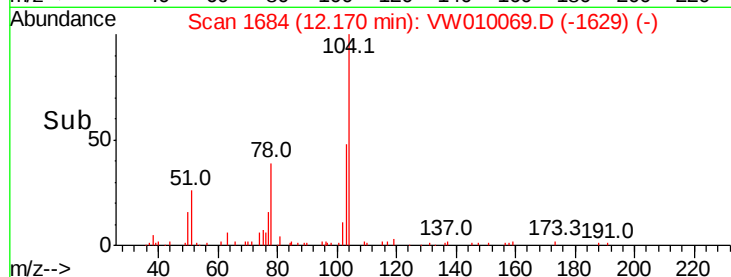
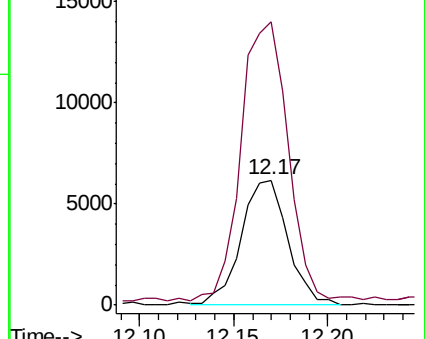
106 100

91 227.1 152.2 282.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 0.711 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW010069.D

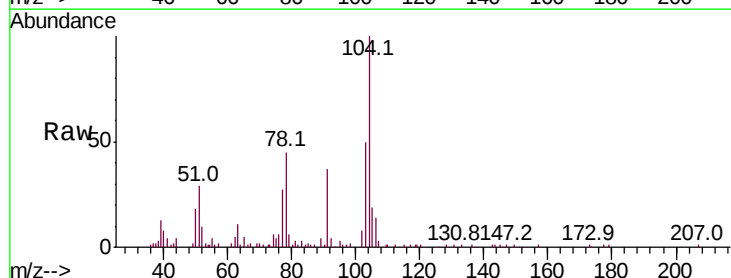
Acq: 19 Apr 2019 16:43

Tgt Ion:104 Resp: 22994

Ion Ratio Lower Upper

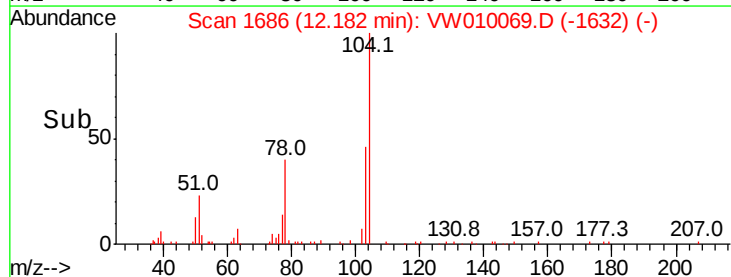
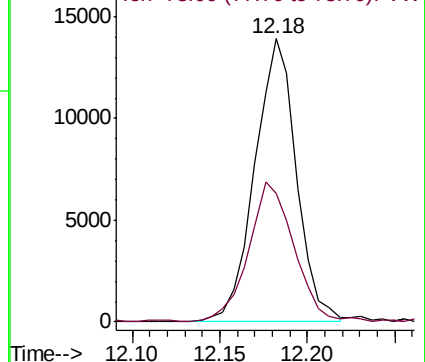
104 100

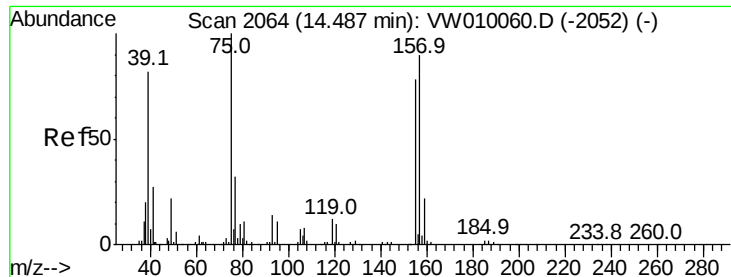
78 45.5 32.7 60.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#66

1,2-Dibromo-3-chloropropane

Concen: 1.798 ug/L

RT: 14.54 min Scan# 2072

Delta R.T. 0.05 min

Lab File: VW010069.D

Acq: 19 Apr 2019 16:43

Instrument :

MSVOA\_W

ClientSampleId :

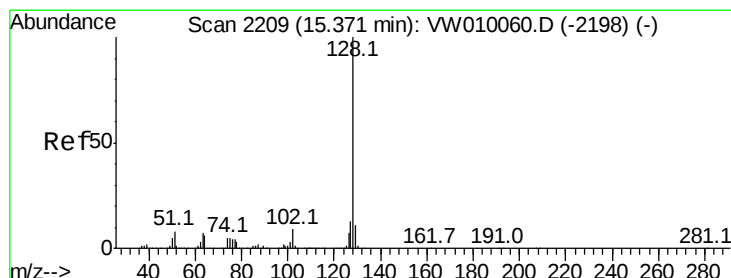
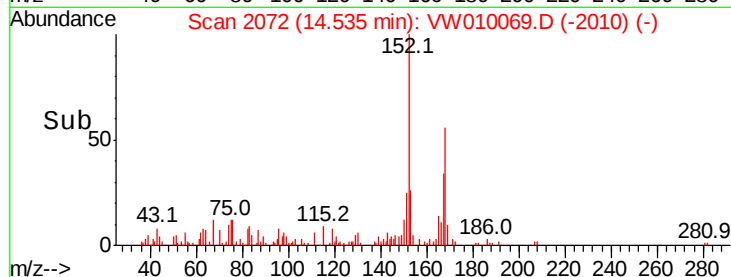
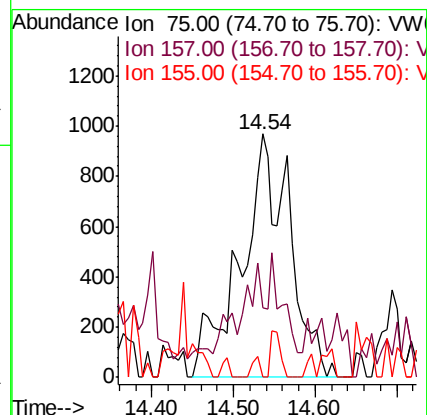
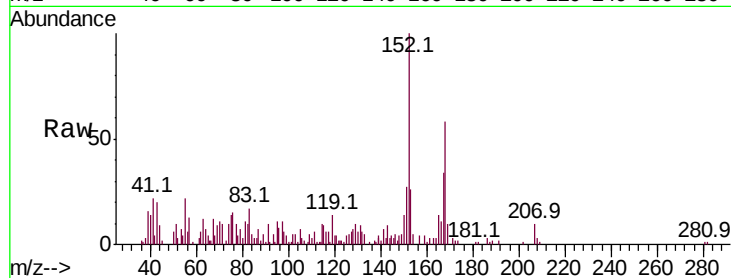
Tot Ion: 75 Resp: 3999

Ion Ratio Lower Upper

75 100

157 28.4 73.3 109.9#

155 0.0 58.6 88.0#



#69

Naphthalene

Concen: 28.521 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010069.D

Acq: 19 Apr 2019 16:43

Tgt Ion: 128 Resp: 822651

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

127 13.1 10.6 16.0

