

Data Path : W:\HPCHEM1\MSVOA V\DATA\VV052618\  
 Data File : VV006052.D  
 Acq On : 26 May 2018 13:43  
 Operator : SY/MD  
 Sample : J3090-03 100X  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 02:20:08 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_V\METHOD\SOMVLM052518WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon May 28 02:03:29 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 170989   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 159787   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 67863    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 38284    | 32.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 64.12%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 21478    | 25.43    | ug/L | -0.01   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 50.86%# |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 57554    | 25.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 51.78%# |
| 21) 2-Butanone-d5              | 3.95    | 46    | 39919    | 58.36    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 58.36%  |
| 24) Chloroform-d               | 4.40    | 84    | 75359    | 33.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 66.96%# |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 50837    | 34.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 69.20%# |
| 32) Benzene-d6                 | 5.10    | 84    | 147261   | 34.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 69.34%# |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 46628    | 34.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 69.14%# |
| 41) Toluene-d8                 | 7.37    | 98    | 129936   | 33.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 66.14%# |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 19336    | 31.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 62.24%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 35638    | 67.22    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 67.22%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 62591    | 33.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 67.48%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 47858    | 35.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 70.92%# |

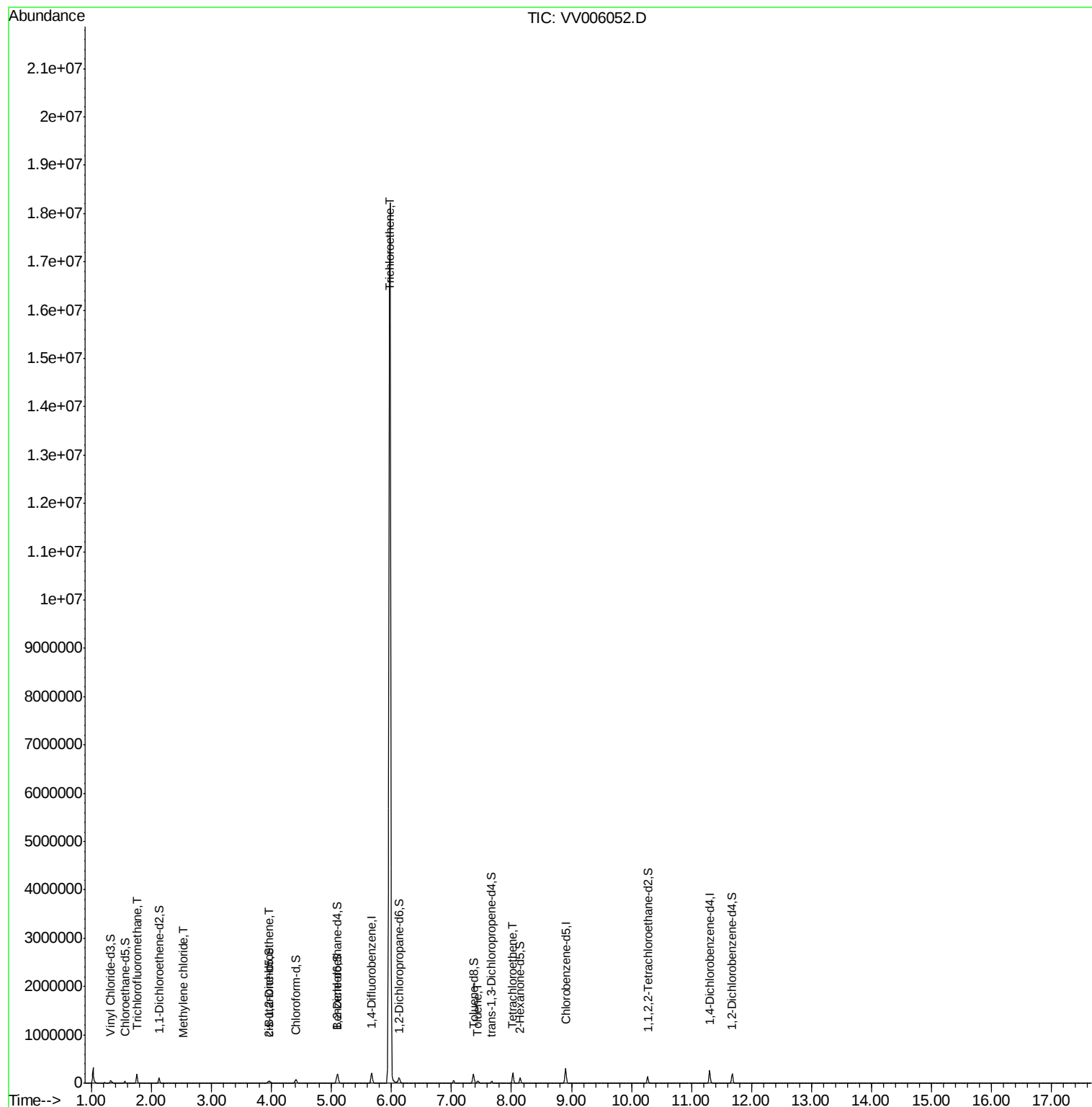
## Target Compounds

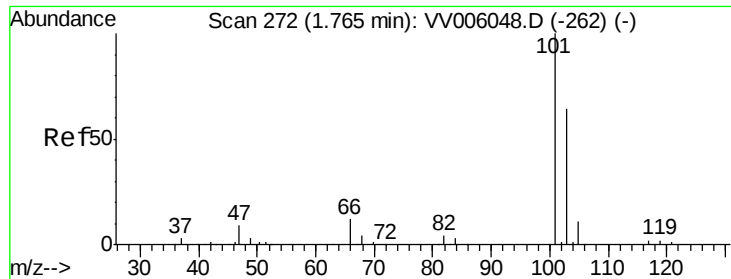
|                            |      |     |         |         |      | Ovalue |
|----------------------------|------|-----|---------|---------|------|--------|
| 9) Trichlorofluoromethane  | 1.76 | 101 | 104921  | 51.78   | ug/L | 99     |
| 16) Methylene chloride     | 2.54 | 84  | 2529    | 2.01    | ug/L | 100    |
| 20) cis-1,2-Dichloroethene | 3.97 | 96  | 4489    | 3.31    | ug/L | 86     |
| 34) Trichloroethene        | 5.97 | 95  | 6677544 | 5181.40 | ug/L | 96     |
| 42) Toluene                | 7.44 | 91  | 33015   | 6.34    | ug/L | 99     |
| 46) Tetrachloroethene      | 8.02 | 164 | 42314   | 43.68   | ug/L | 99     |

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

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Quant Title : VOC Analysis  
QLast Update : Mon May 28 02:03:29 2018  
Response via : Initial Calibration





#9

Trichlorofluoromethane

Concen: 51.78 ug/L

RT: 1.76 min Scan# 269

Delta R.T. -0.01 min

Lab File: VV006052.D

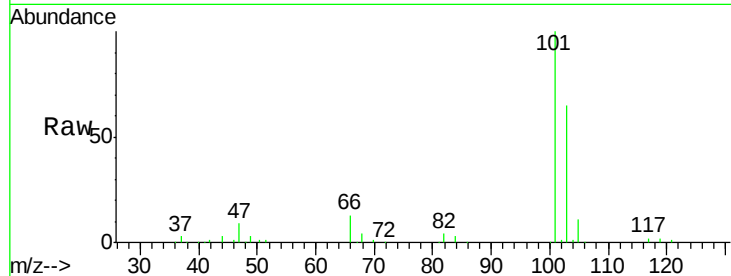
Acq: 26 May 2018 13:43

Tot Ion:101 Resp: 104921

Ion Ratio Lower Upper

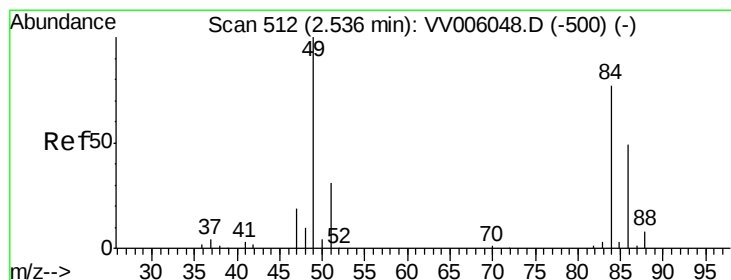
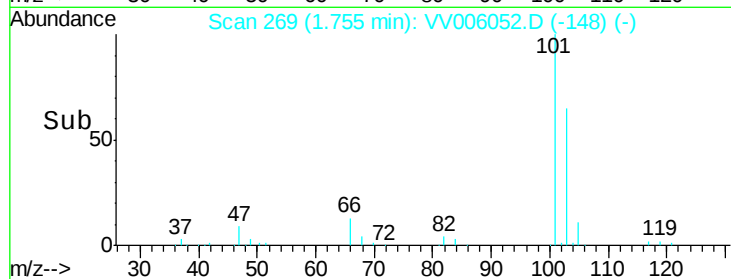
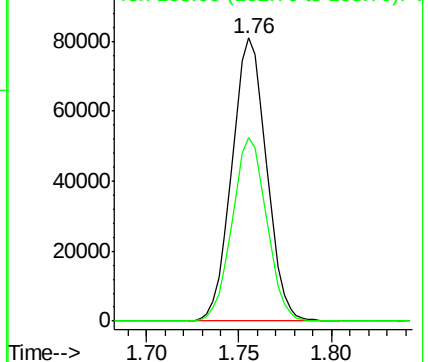
101 100

103 64.5 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#16

Methylene chloride

Concen: 2.01 ug/L

RT: 2.54 min Scan# 512

Delta R.T. -0.00 min

Lab File: VV006052.D

Acq: 26 May 2018 13:43

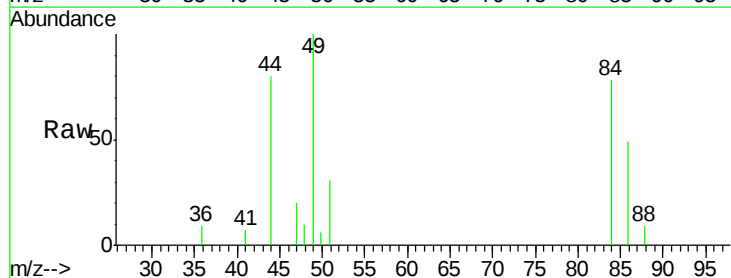
Tgt Ion: 84 Resp: 2529

Ion Ratio Lower Upper

84 100

86 63.8 45.1 83.7

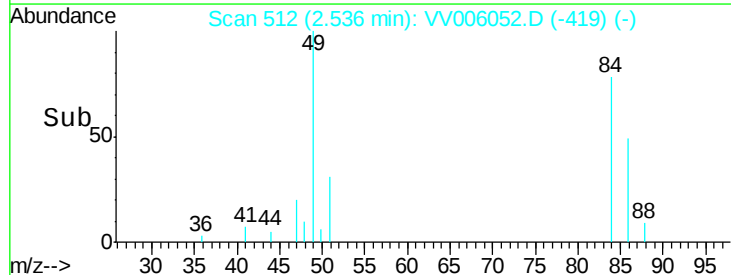
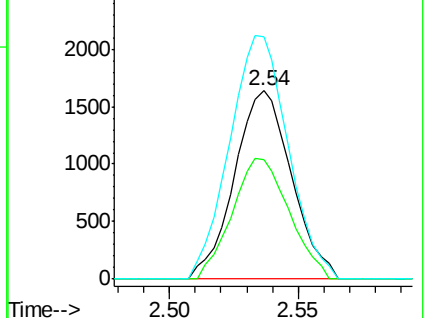
49 129.0 90.2 167.6

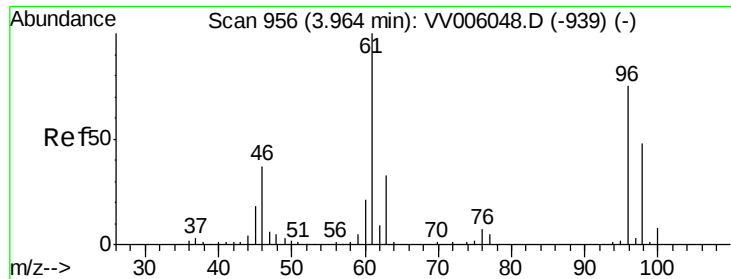


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

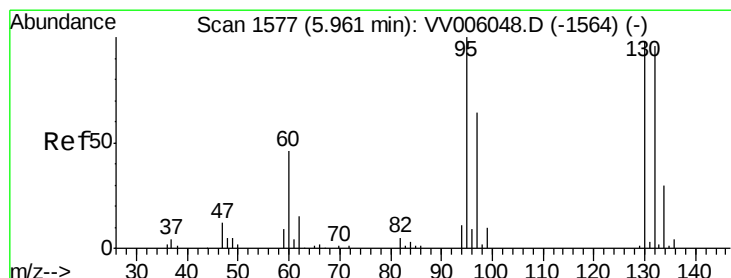
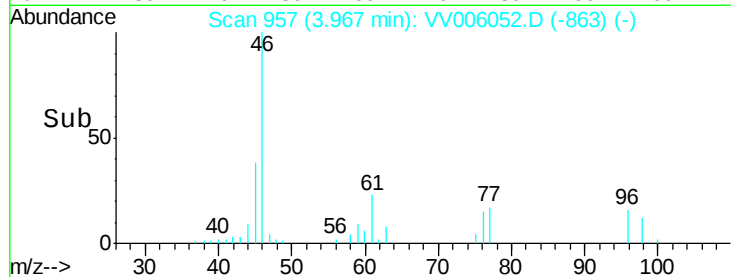
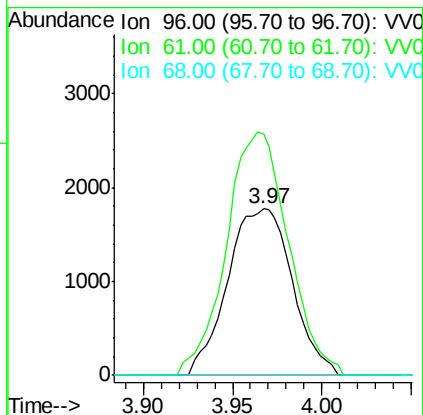
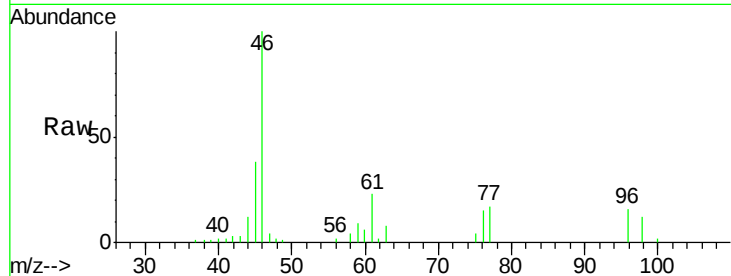
Ion 49.00 (48.70 to 49.70): VV0





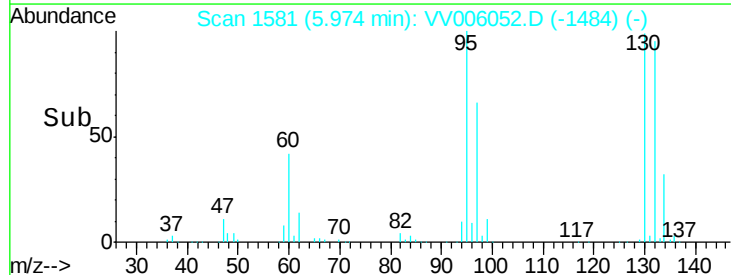
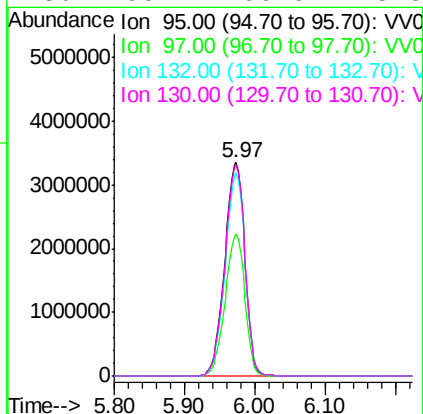
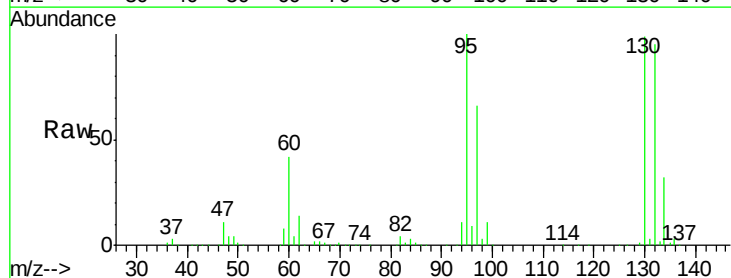
#20  
 cis-1,2-Dichloroethene  
 Concen: 3.31 ug/L  
 RT: 3.97 min Scan# 957  
 Delta R.T. 0.00 min  
 Lab File: VV006052.D  
 Acq: 26 May 2018 13:43

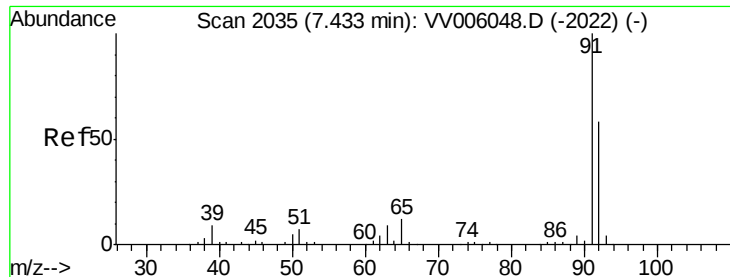
Tot Ion: 96 Resp: 4489  
 Ion Ratio Lower Upper  
 96 100  
 61 145.2 89.9 167.0  
 68 0.0 0.0 0.0



#34  
 Trichloroethene  
 Concen: 5181.40 ug/L  
 RT: 5.97 min Scan# 1581  
 Delta R.T. 0.01 min  
 Lab File: VV006052.D  
 Acq: 26 May 2018 13:43

Tgt Ion: 95 Resp: 6677544  
 Ion Ratio Lower Upper  
 95 100  
 97 66.4 44.0 81.6  
 132 95.3 65.0 120.6  
 130 99.1 66.6 123.8





#42

Toluene

Concen: 6.34 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV006052.D

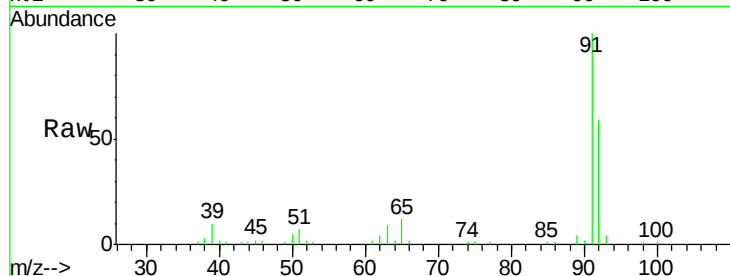
Acq: 26 May 2018 13:43

Tot Ion: 91 Resp: 33015

Ion Ratio Lower Upper

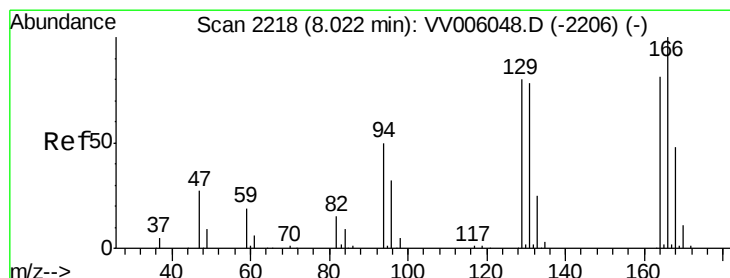
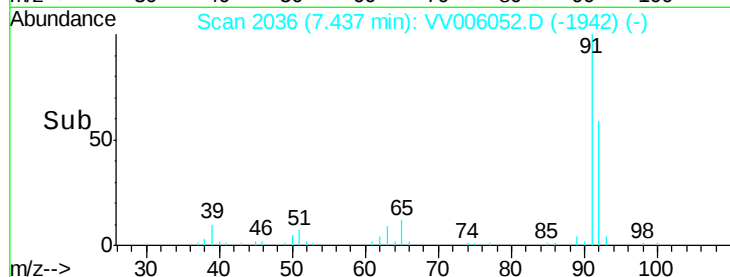
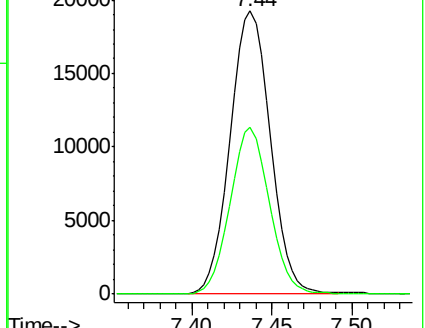
91 100

92 58.9 40.7 75.7



Abundance Ion 91.00 (90.70 to 91.70): VV006048.D (-2022) (-)

Ion 92.00 (91.70 to 92.70): VV006048.D (-2022) (-)



#46

Tetrachloroethene

Concen: 43.68 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VV006052.D

Acq: 26 May 2018 13:43

Tgt Ion: 164 Resp: 42314

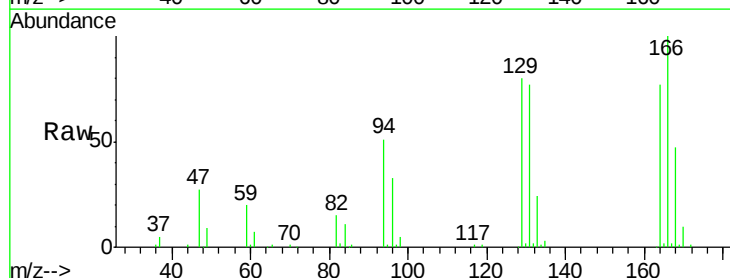
Ion Ratio Lower Upper

164 100

129 103.7 72.2 134.2

131 98.9 70.0 130.0

166 129.3 90.4 167.8



Abundance Ion 164.00 (163.70 to 164.70): VV006048.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VV006048.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VV006048.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VV006048.D (-2206) (-)

