

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\  
 Data File : VU025450.D  
 Acq On : 17 Jul 2018 01:51  
 Operator : MD/SY  
 Sample : J3984-16  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB1A5

Quant Time: Jul 17 09:16:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071618WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 17 02:54:19 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 316659   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 289875   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 129478   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 73882    | 43.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.78%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 62218    | 44.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 89.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 121323   | 32.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.94%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 154059   | 89.55    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.55%  |
| 24) Chloroform-d               | 4.65    | 84    | 175486   | 43.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.88%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 122442   | 44.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.84%  |
| 32) Benzene-d6                 | 5.34    | 84    | 337413   | 46.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.66%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 110834   | 47.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.10%  |
| 41) Toluene-d8                 | 7.57    | 98    | 313389   | 43.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.58%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 30740    | 25.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 51.44%# |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 108154   | 86.07    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.07%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 159420   | 44.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.16%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 124812   | 46.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.26%  |

## Target Compounds

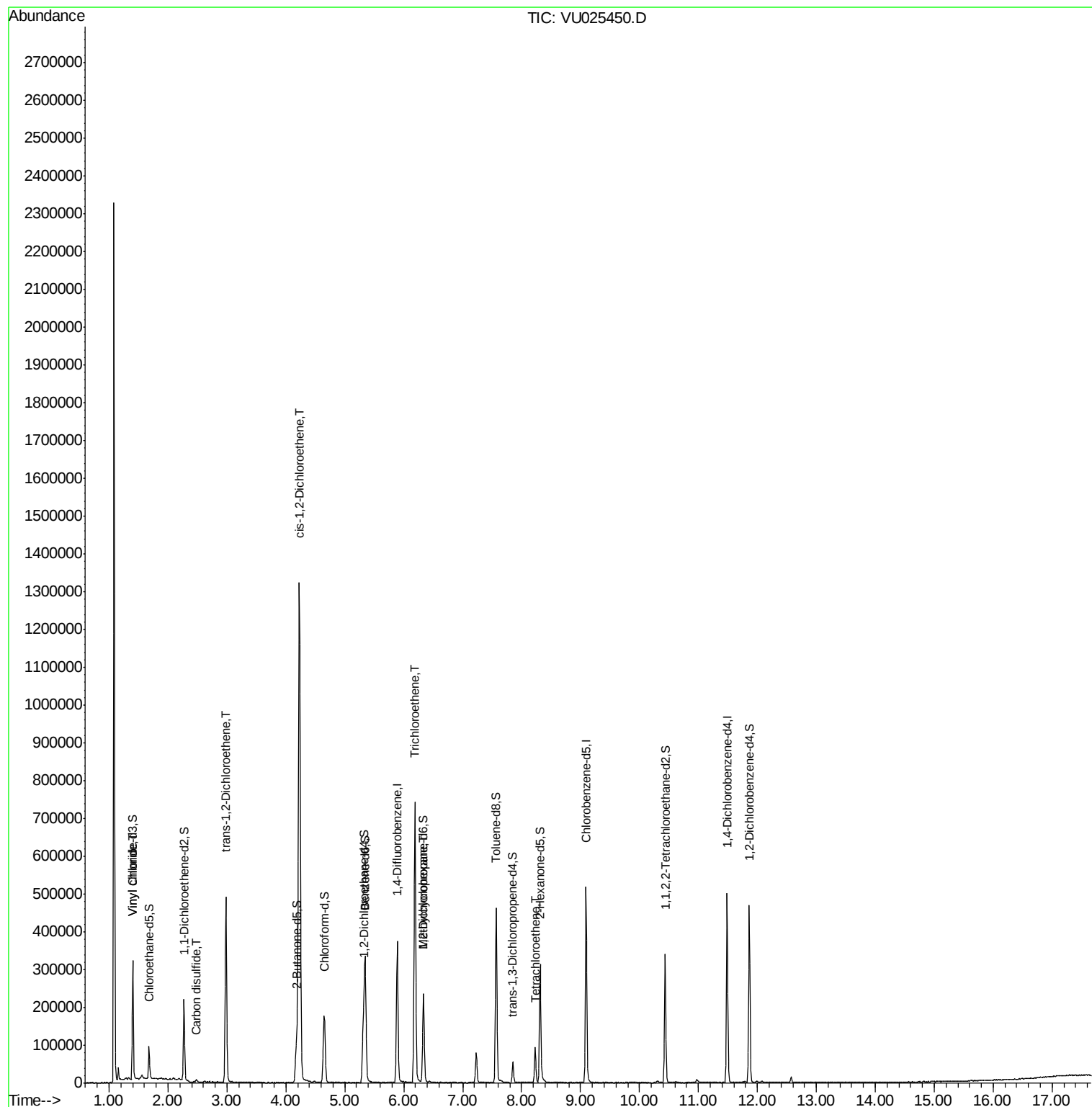
|                              |      |     |        |        |        | Ovalue |
|------------------------------|------|-----|--------|--------|--------|--------|
| 5) Vinyl chloride            | 1.40 | 62  | 145337 | 60.11  | ug/L   | 99     |
| 14) Carbon disulfide         | 2.48 | 76  | 10096  | 1.73   | ug/L   | 100    |
| 17) trans-1,2-Dichloroethene | 2.98 | 96  | 187244 | 90.43  | ug/L   | 95     |
| 20) cis-1,2-Dichloroethene   | 4.23 | 96  | 743898 | 306.16 | ug/L   | 99     |
| 34) Trichloroethene          | 6.19 | 95  | 255793 | 113.29 | ug/L   | 99     |
| 35) Methylcyclohexane        | 6.33 | 83  | 26386  | 7.31   | ug/L # | 20     |
| 46) Tetrachloroethene        | 8.23 | 164 | 21648  | 11.57  | ug/L   | 98     |

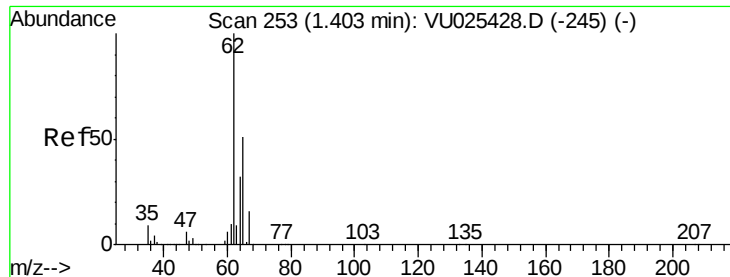
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Tue Jul 17 02:54:19 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 60.11 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025450.D

Acq: 17 Jul 2018 01:51

Instrument :

MSVOA\_U

ClientSampleId :

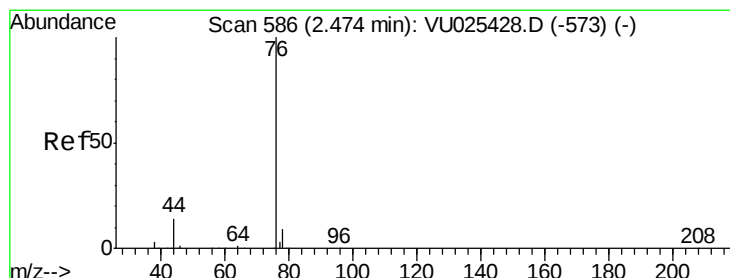
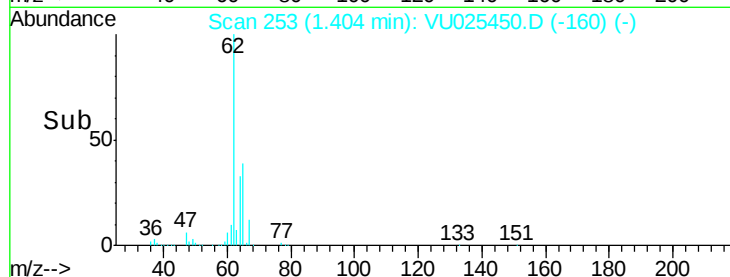
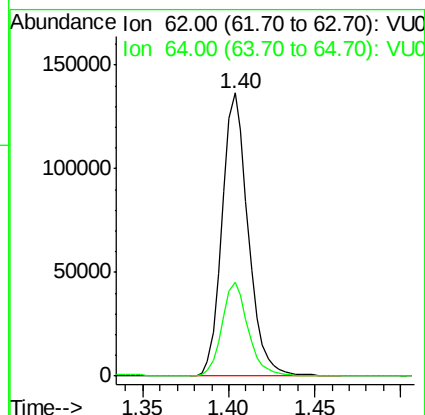
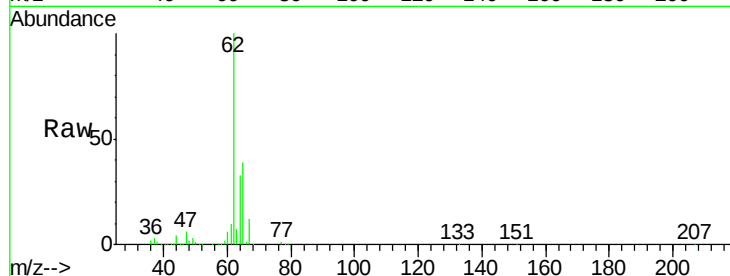
DB1A5

Tot Ion: 62 Resp: 145337

Ion Ratio Lower Upper

62 100

64 33.1 22.6 42.0



#14

Carbon disulfide

Concen: 1.73 ug/L

RT: 2.48 min Scan# 588

Delta R.T. 0.01 min

Lab File: VU025450.D

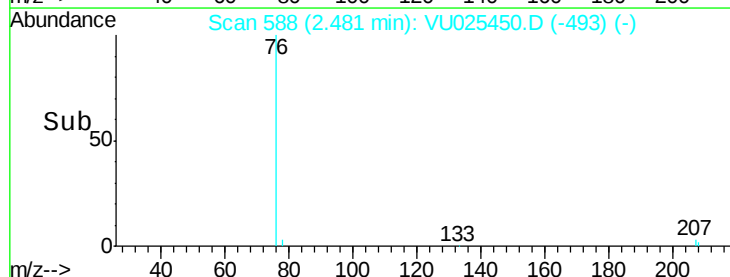
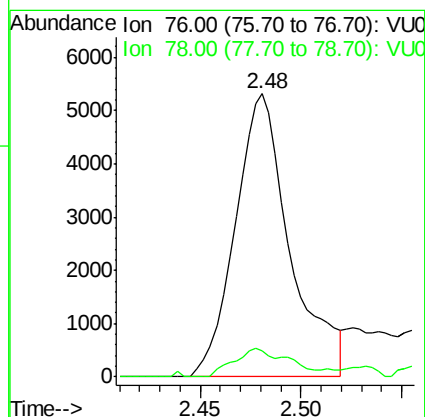
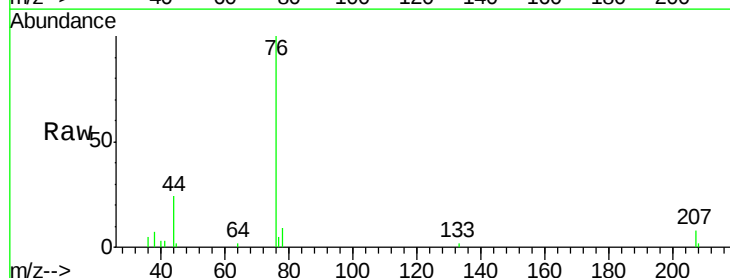
Acq: 17 Jul 2018 01:51

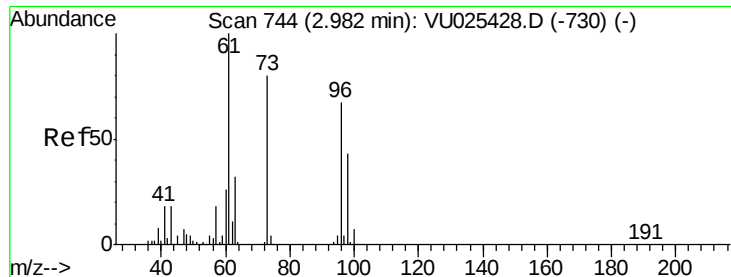
Tgt Ion: 76 Resp: 10096

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8





#17

trans-1,2-Dichloroethene

Concen: 90.43 ug/L

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

Lab File: VU025450.D

Acq: 17 Jul 2018 01:51

Instrument :

MSVOA\_U

ClientSampleId :

DB1A5

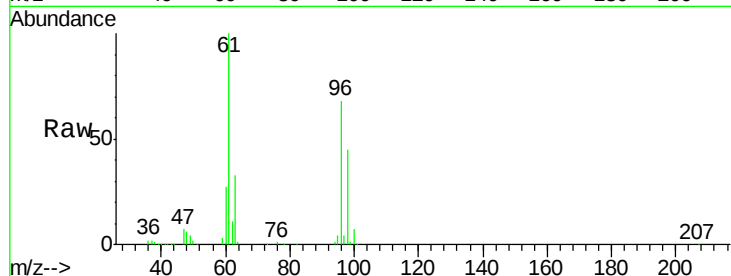
Tot Ion: 96 Resp: 187244

Ion Ratio Lower Upper

96 100

61 146.6 98.2 182.4

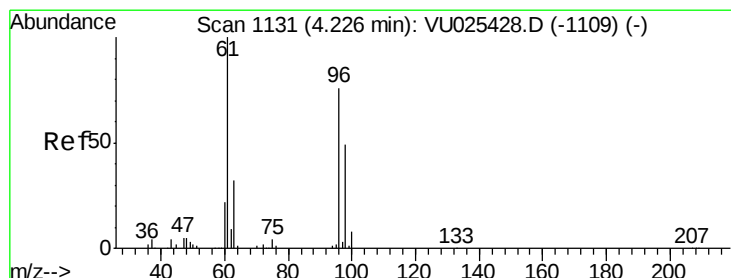
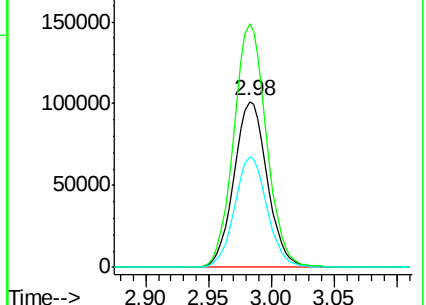
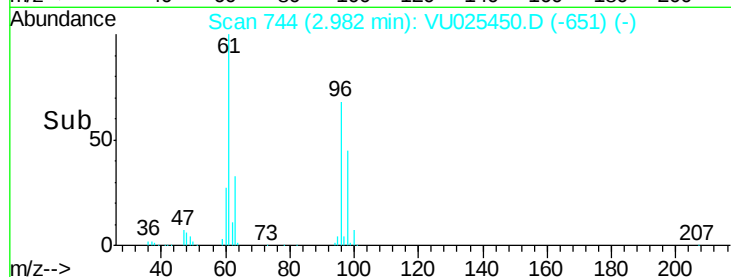
98 66.4 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 306.16 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU025450.D

Acq: 17 Jul 2018 01:51

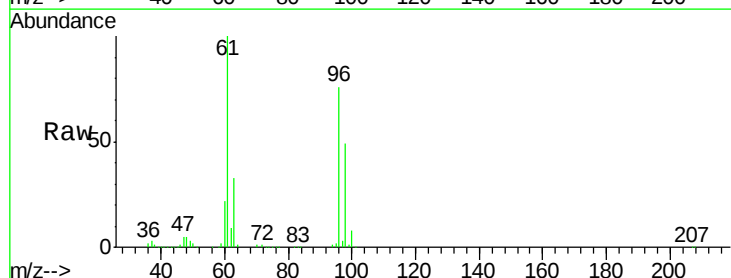
Tgt Ion: 96 Resp: 743898

Ion Ratio Lower Upper

96 100

61 130.8 92.0 170.9

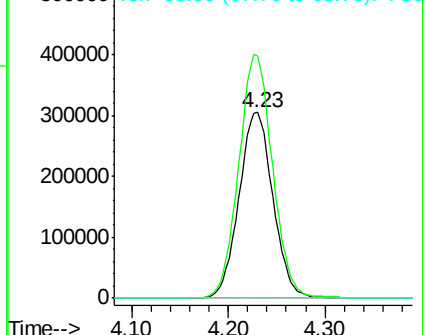
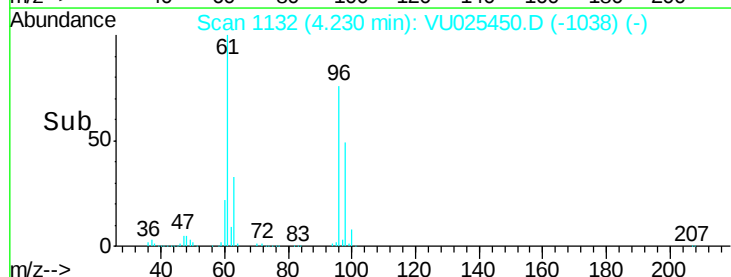
68 0.0 0.0 0.0

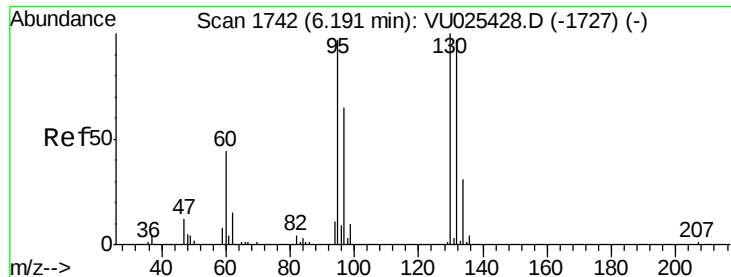


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0

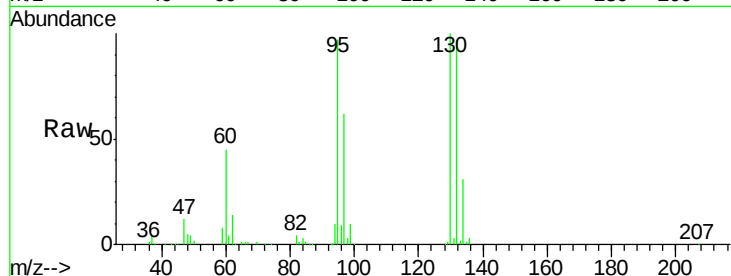




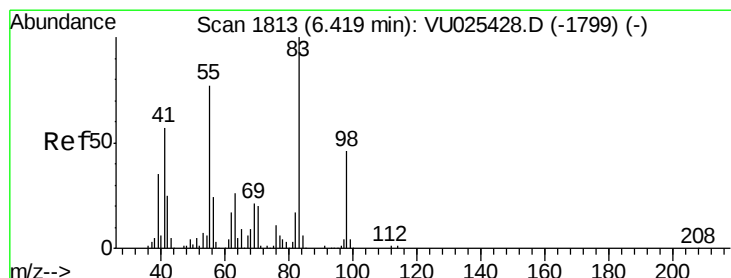
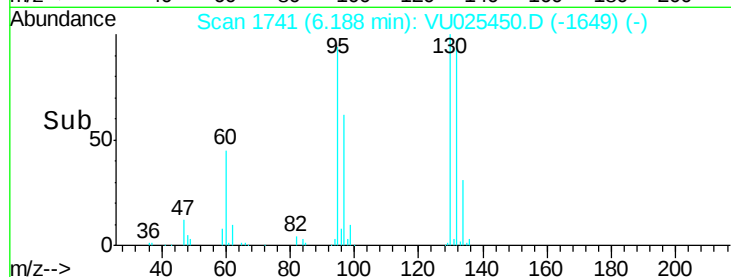
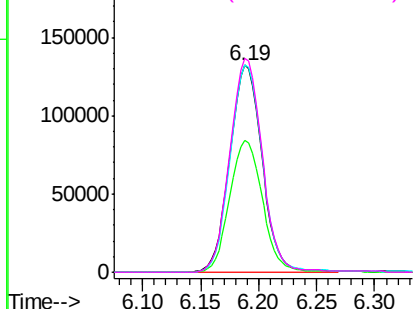
#34  
 Trichloroethene  
 Concen: 113.29 ug/L  
 RT: 6.19 min Scan# 1741  
 Delta R.T. -0.00 min  
 Lab File: VU025450.D  
 Acq: 17 Jul 2018 01:51

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 MSVOA\_U  
 ClientSampleId :  
 DB1A5

Tot Ion: 95 Resp: 255793  
 Ion Ratio Lower Upper  
 95 100  
 97 63.7 44.3 82.3  
 132 100.3 69.6 129.2  
 130 103.2 72.4 134.5

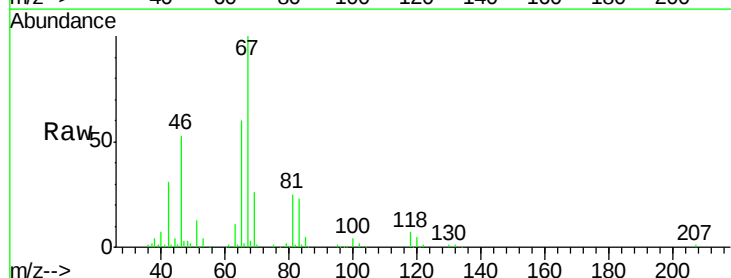


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

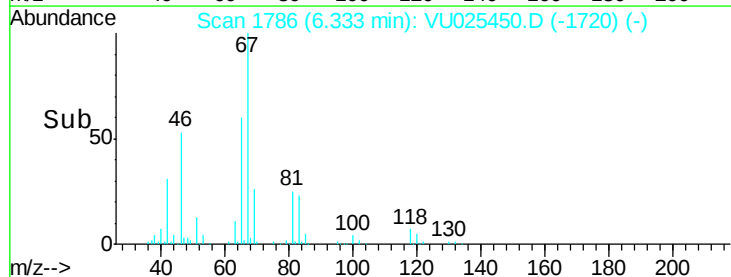
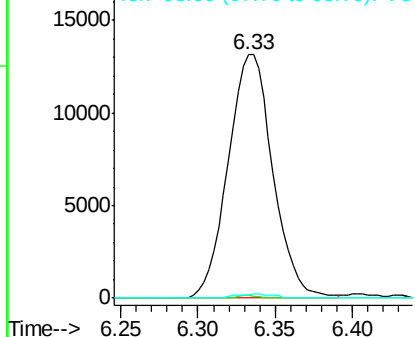


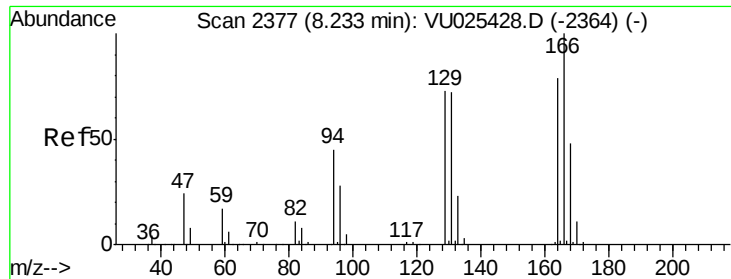
#35  
 Methylcyclohexane  
 Concen: 7.31 ug/L  
 RT: 6.33 min Scan# 1786  
 Delta R.T. -0.09 min  
 Lab File: VU025450.D  
 Acq: 17 Jul 2018 01:51

Tgt Ion: 83 Resp: 26386  
 Ion Ratio Lower Upper  
 83 100  
 55 0.4 60.6 90.8#  
 98 1.4 37.6 56.4#



Abundance Ion 83.00 (82.70 to 83.70): VU0  
 Ion 55.00 (54.70 to 55.70): VU0  
 Ion 98.00 (97.70 to 98.70): VU0

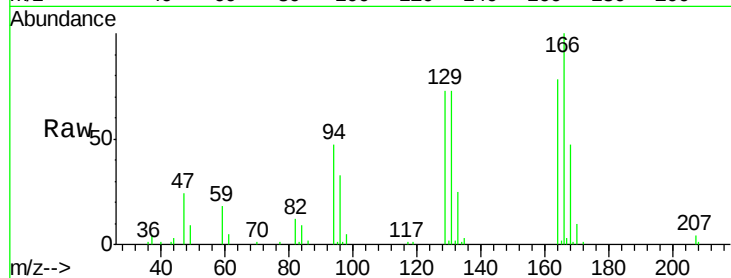




#46  
Tetrachloroethene  
Concen: 11.57 ug/L  
RT: 8.23 min Scan# 2376  
Delta R.T. -0.00 min  
Lab File: VU025450.D  
Acq: 17 Jul 2018 01:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB1A5

Tot Ion:164 Resp: 21648  
Ion Ratio Lower Upper  
164 100  
129 93.7 64.7 120.1  
131 93.3 63.1 117.3  
166 127.5 89.7 166.5



Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

