

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U092019\  
 Data File : VU034692.D  
 Acq On : 20 Sep 2019 16:31  
 Operator : JC/SP  
 Sample : K4948-04  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BEDN5

Quant Time: Sep 21 04:28:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 21 02:29:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 503099   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 480110   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 213738   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 215250   | 41.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 83.58%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 176677   | 44.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 88.76%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 290889   | 33.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.70%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 401144   | 101.62   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.62% |
| 24) Chloroform-d               | 4.62    | 84    | 356999   | 47.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.36%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 263989   | 47.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.92%  |
| 32) Benzene-d6                 | 5.32    | 84    | 713357   | 47.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.88%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 255528   | 49.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.26%  |
| 41) Toluene-d8                 | 7.54    | 98    | 664358   | 46.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.86%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 117586   | 47.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.40%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 255593   | 97.84    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.84%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 331241   | 45.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 219943   | 49.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.14%  |

## Target Compounds

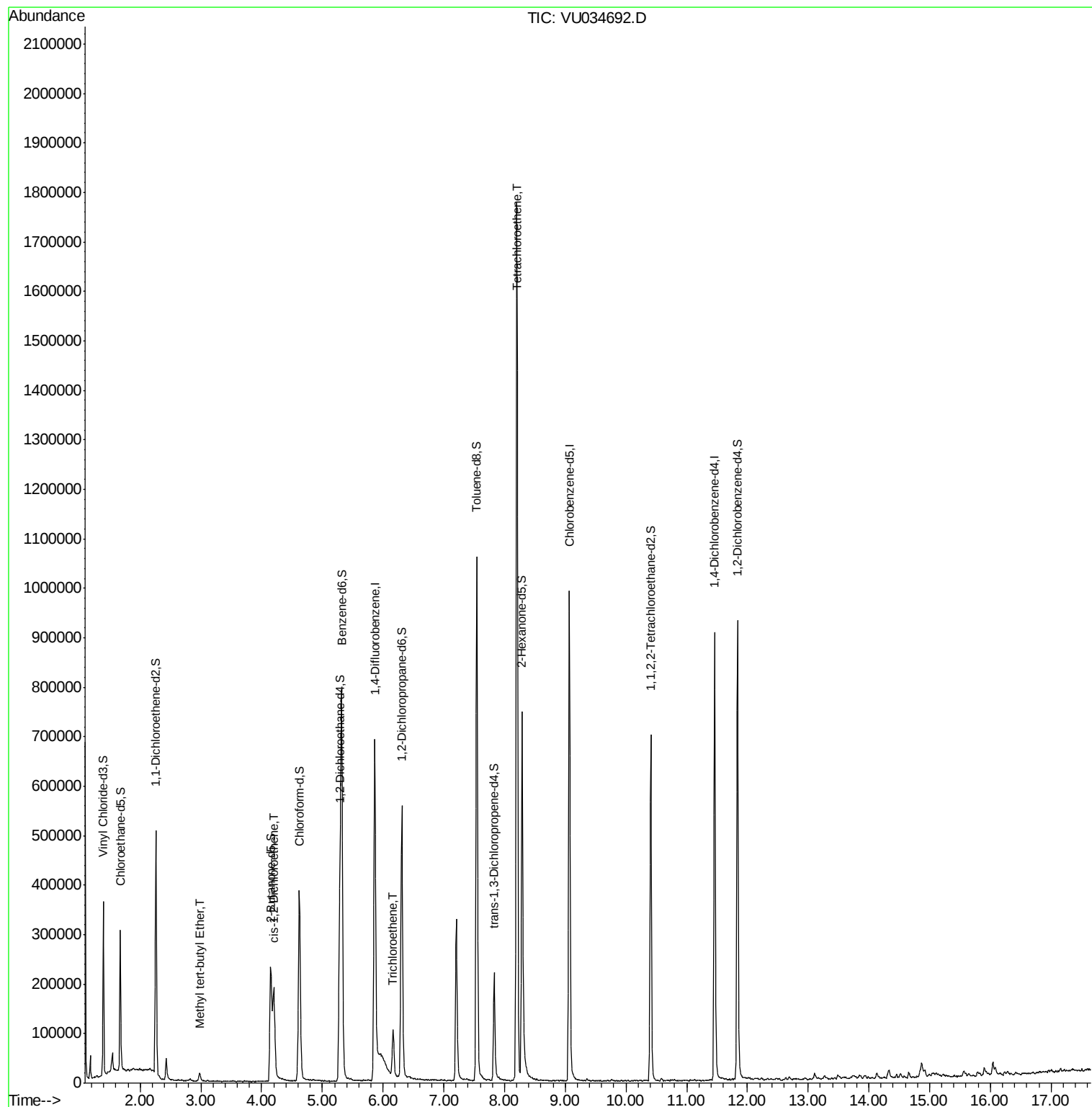
|                             |      |     |        |         | Ovalue  |
|-----------------------------|------|-----|--------|---------|---------|
| 18) Methyl tert-butyl Ether | 2.98 | 73  | 13507  | 1.012   | ug/L 93 |
| 20) cis-1,2-Dichloroethene  | 4.20 | 96  | 79482  | 18.889  | ug/L 94 |
| 34) Trichloroethene         | 6.16 | 95  | 31115  | 7.566   | ug/L 96 |
| 46) Tetrachloroethene       | 8.21 | 164 | 344504 | 119.096 | ug/L 97 |

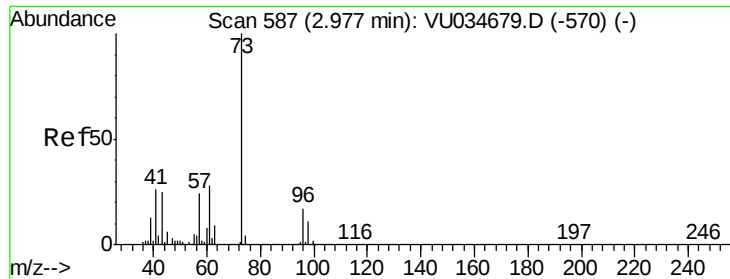
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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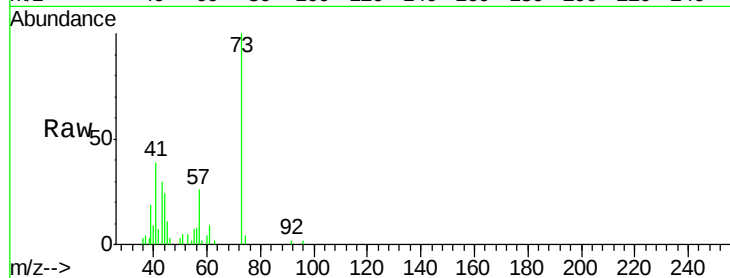




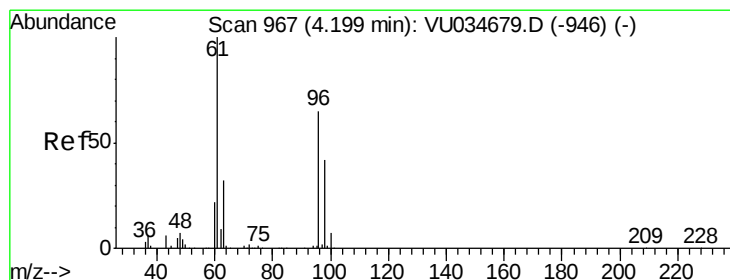
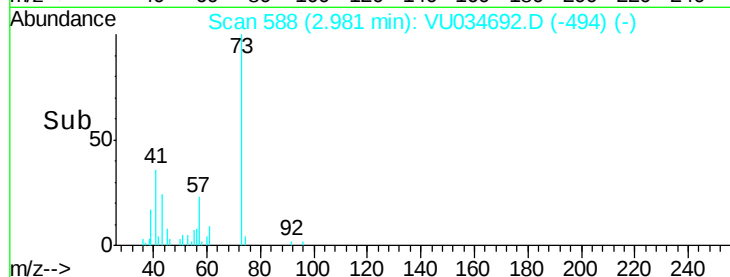
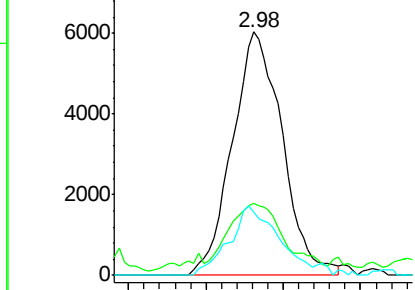
#18  
Methvl tert-butvl Ether  
Concen: 1.012 ug/L  
RT: 2.98 min Scan# 588  
Delta R.T. 0.00 min  
Lab File: VU034692.D  
Acq: 20 Sep 2019 16:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
BEDN5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 23.0  | 20.9  | 31.3  |
| 57      | 27.9  | 19.5  | 29.3  |

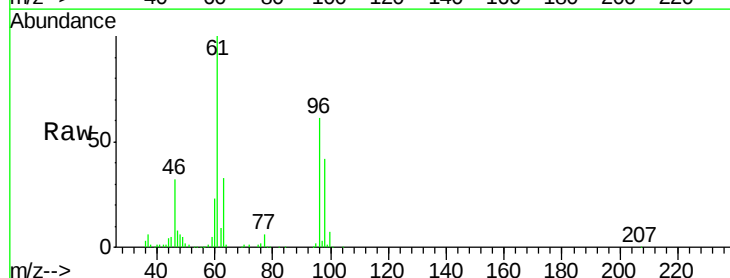


Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0

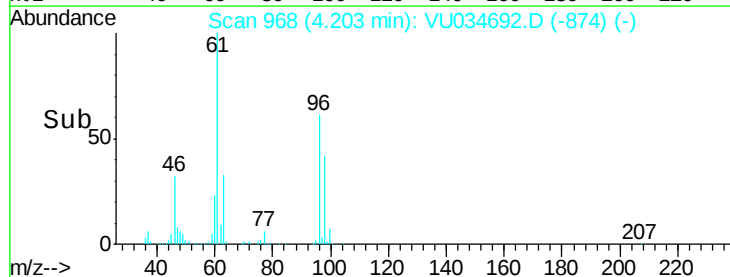
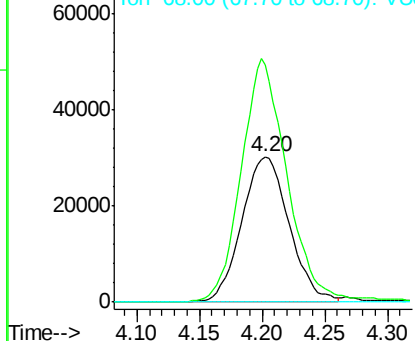


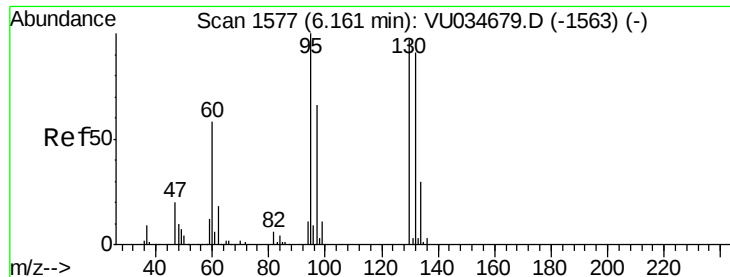
#20  
cis-1,2-Dichloroethene  
Concen: 18.889 ug/L  
RT: 4.20 min Scan# 968  
Delta R.T. 0.00 min  
Lab File: VU034692.D  
Acq: 20 Sep 2019 16:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 163.2 | 108.8 | 202.2 |
| 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: 7.566 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034692.D

Acq: 20 Sep 2019 16:31

Instrument :

MSVOA\_U

ClientSampleId :

BEDN5

Tot Ion: 95 Resp: 31115

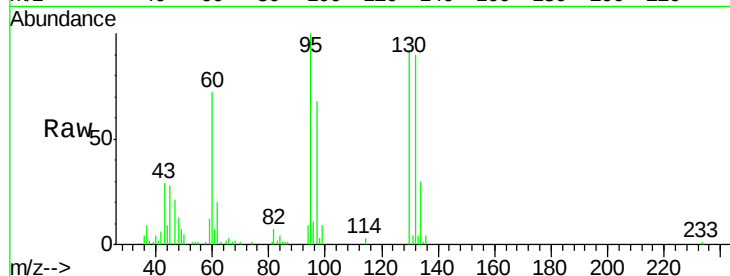
Ion Ratio Lower Upper

95 100

97 67.5 43.7 81.1

132 89.6 61.0 113.2

130 91.6 65.7 121.9

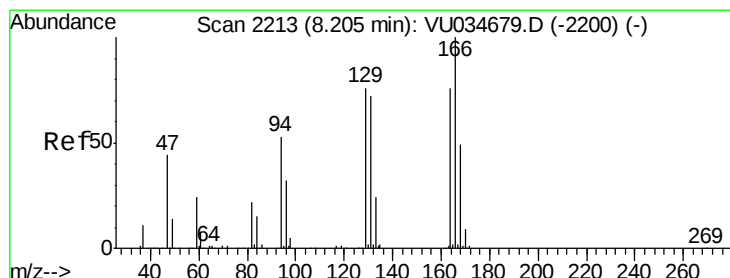
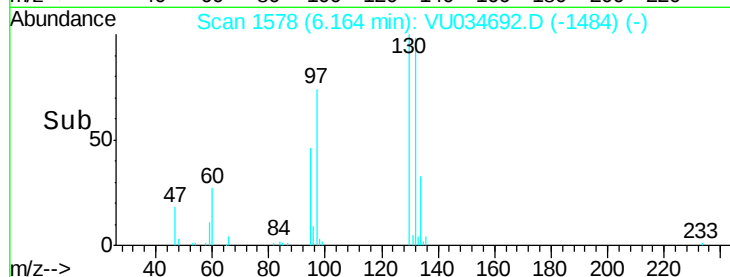
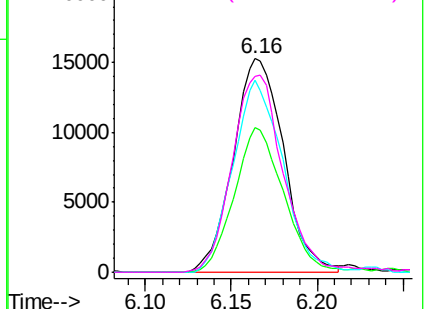


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#46

Tetrachloroethene

Concen: 119.096 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034692.D

Acq: 20 Sep 2019 16:31

Tgt Ion: 164 Resp: 344504

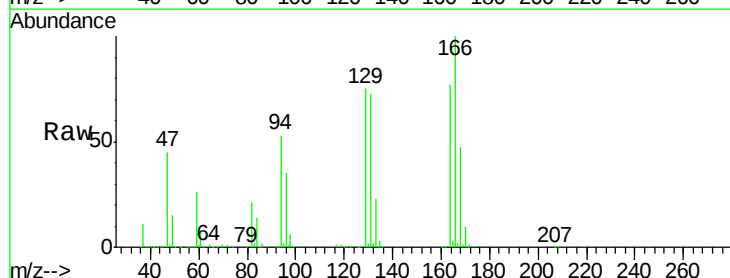
Ion Ratio Lower Upper

164 100

129 98.1 71.9 133.5

131 95.1 66.3 123.1

166 130.5 93.4 173.6



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

