

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\  
 Data File : VU034787.D  
 Acq On : 24 Sep 2019 21:30  
 Operator : JC/SP  
 Sample : K4948-04  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BEDN5

Quant Time: Sep 25 07:39:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 25 02:59:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 580347   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 541078   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 237475   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 204841   | 34.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 68.96%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 183598   | 39.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 79.96%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 290408   | 28.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 57.72%# |
| 21) 2-Butanone-d5              | 4.15    | 46    | 455586   | 100.05   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.05% |
| 24) Chloroform-d               | 4.62    | 84    | 383289   | 44.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.76%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 271087   | 42.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.38%  |
| 32) Benzene-d6                 | 5.31    | 84    | 811120   | 48.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.74%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 286146   | 48.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.64%  |
| 41) Toluene-d8                 | 7.54    | 98    | 761101   | 47.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.40%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 126948   | 45.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.44%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 308356   | 104.74   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 391304   | 48.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.22%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 256340   | 51.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.96% |

## Target Compounds

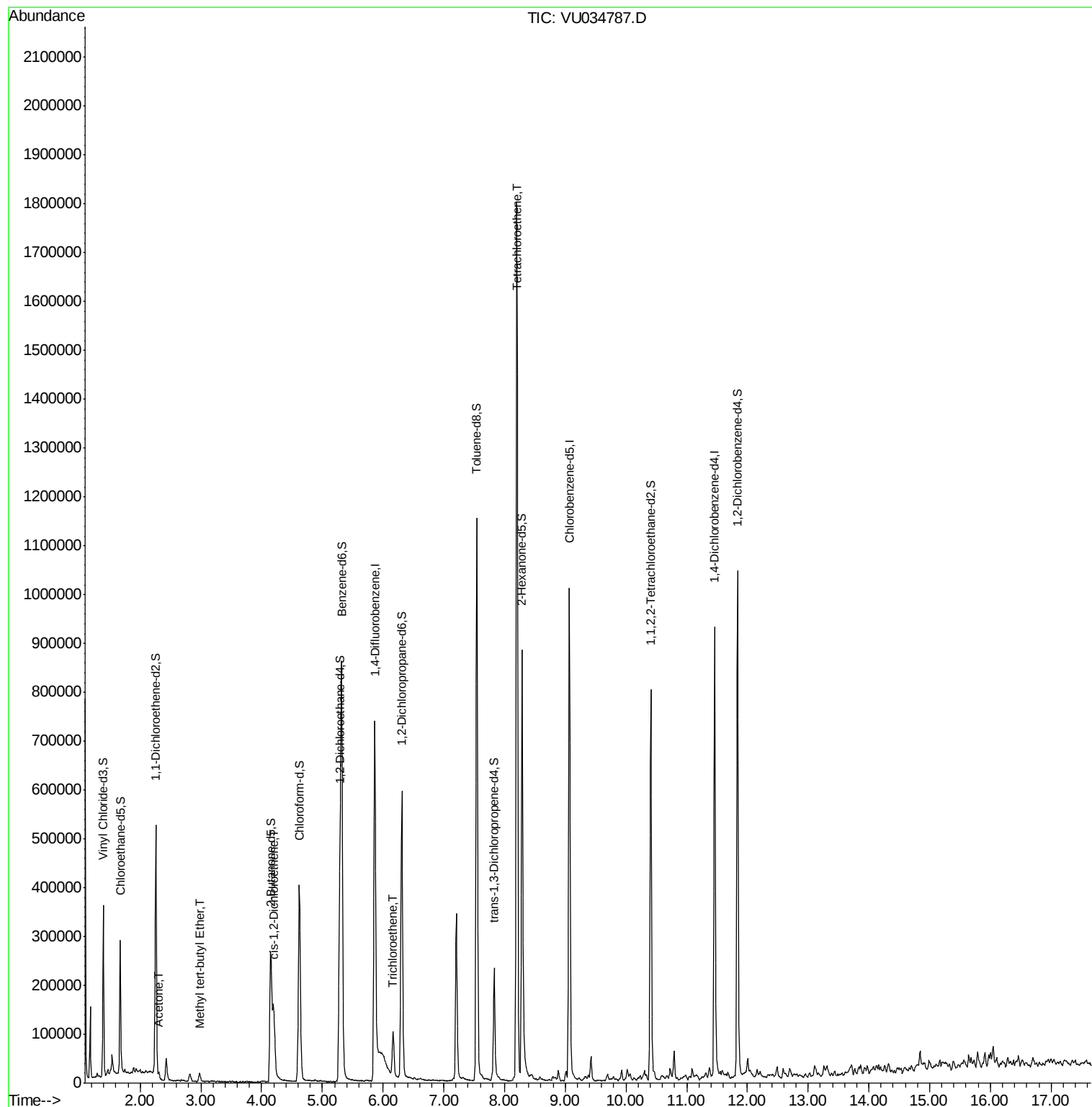
|                             |      |     |        |              | Ovalue |
|-----------------------------|------|-----|--------|--------------|--------|
| 13) Acetone                 | 2.31 | 43  | 14531  | 2.743 ug/L   | 93     |
| 18) Methyl tert-butyl Ether | 2.98 | 73  | 15294  | 0.993 ug/L # | 92     |
| 20) cis-1,2-Dichloroethene  | 4.20 | 96  | 68014  | 14.012 ug/L  | 86     |
| 34) Trichloroethene         | 6.16 | 95  | 31284  | 6.750 ug/L   | 97     |
| 46) Tetrachloroethene       | 8.21 | 164 | 375810 | 115.279 ug/L | 94     |

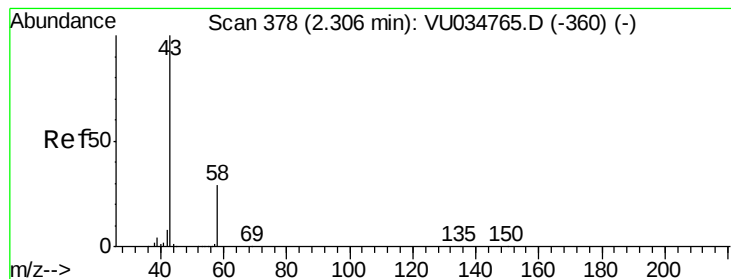
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 2.743 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034787.D

Acq: 24 Sep 2019 21:30

Instrument :

MSVOA\_U

ClientSampled :

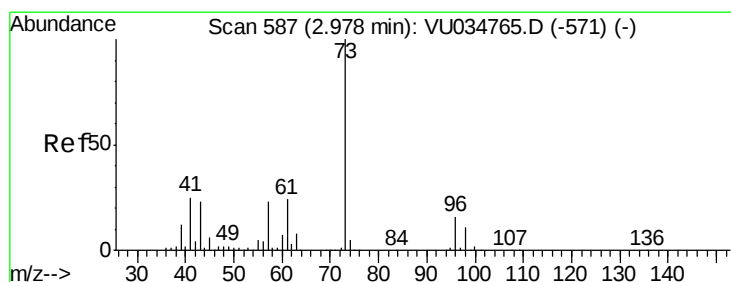
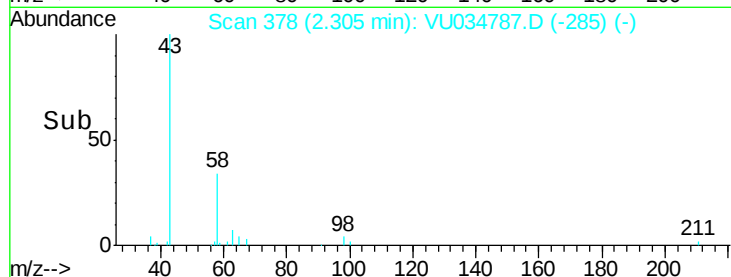
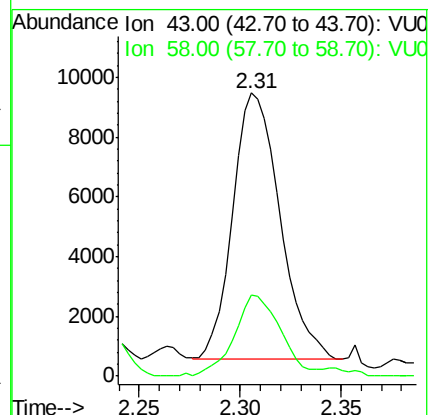
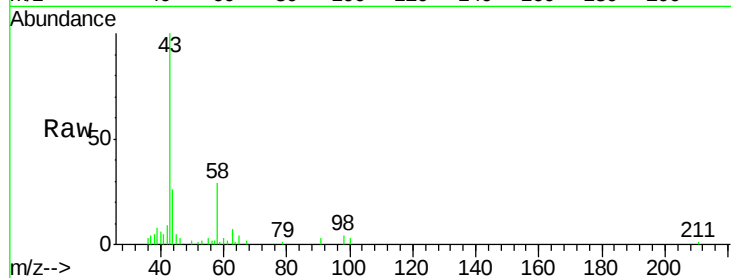
BEDN5

Tot Ion: 43 Resp: 14531

Ion Ratio Lower Upper

43 100

58 30.1 0.0 53.4



#18

Methyl tert-butyl Ether

Concen: 0.993 ug/L

RT: 2.98 min Scan# 589

Delta R.T. 0.01 min

Lab File: VU034787.D

Acq: 24 Sep 2019 21:30

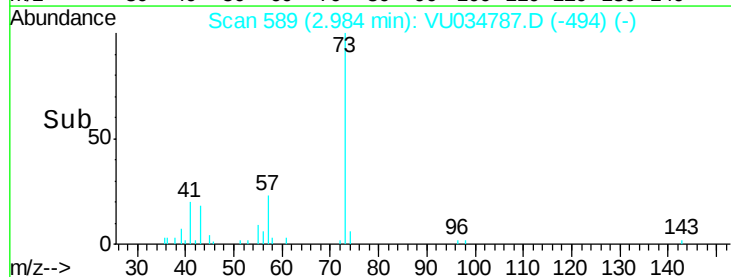
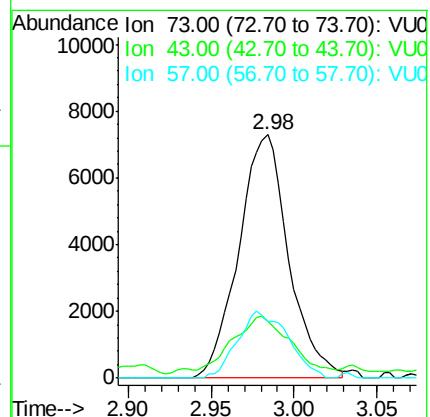
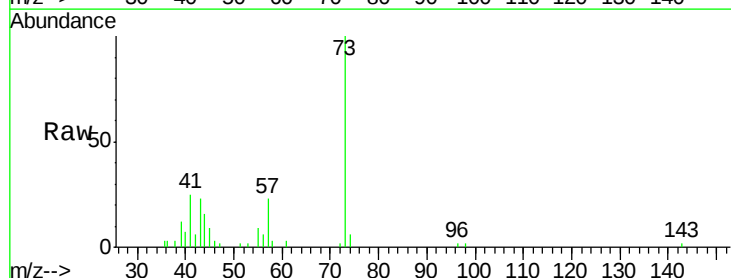
Tgt Ion: 73 Resp: 15294

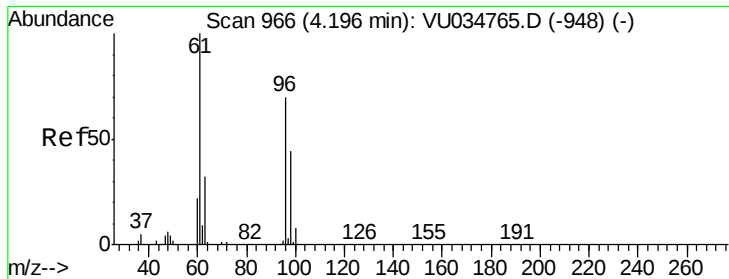
Ion Ratio Lower Upper

73 100

43 23.6 20.9 31.3

57 18.6 19.5 29.3#



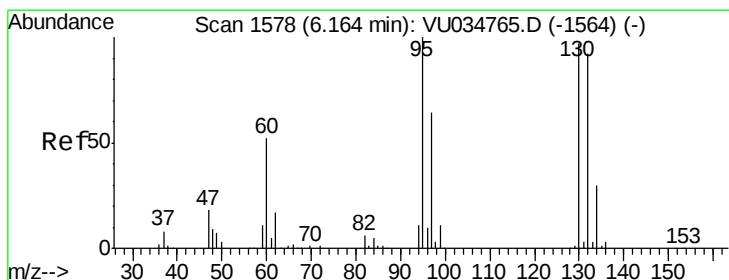
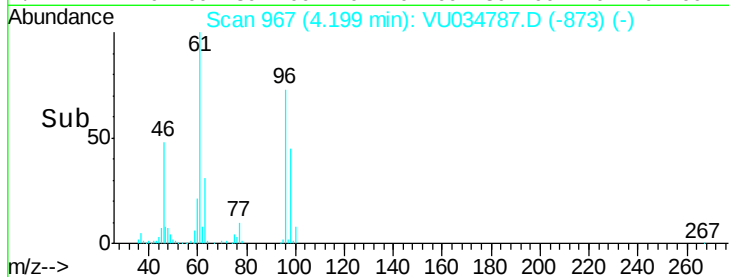
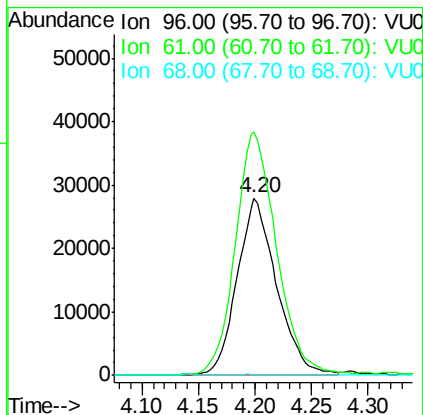
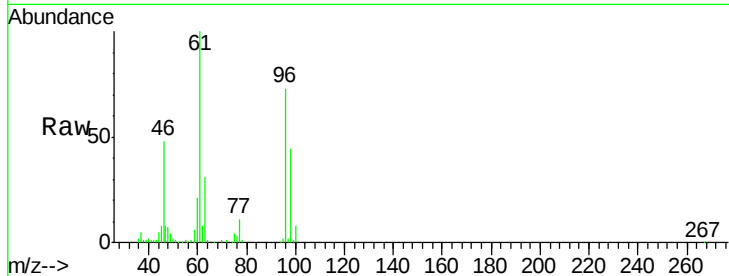


#20

cis-1,2-Dichloroethene  
Concen: 14.012 ug/L  
RT: 4.20 min Scan# 967  
Delta R.T. 0.00 min  
Lab File: VU034787.D  
Acq: 24 Sep 2019 21:30

Instrument :  
MSVOA\_U  
ClientSampleID :  
BEDN5

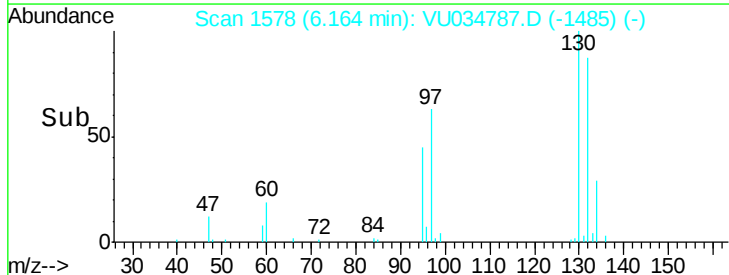
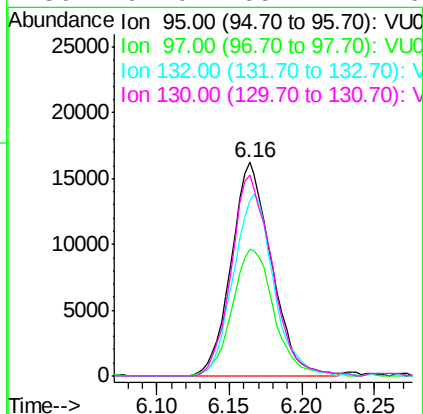
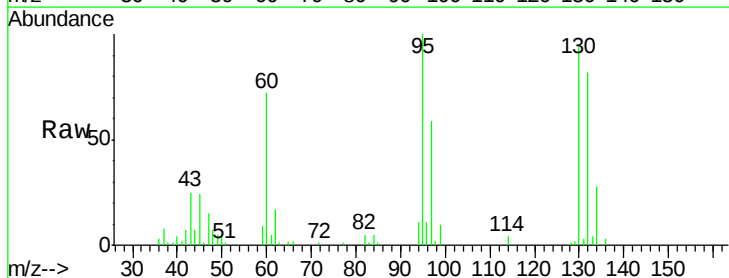
| Tot Ion | 96    | Resp  | 68014 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 137.3 | 108.8 | 202.2 |
| 68      | 0.0   | 0.0   | 0.0   |

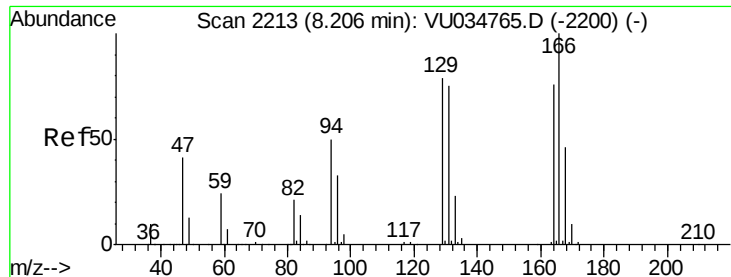


#34

Trichloroethene  
Concen: 6.750 ug/L  
RT: 6.16 min Scan# 1578  
Delta R.T. -0.00 min  
Lab File: VU034787.D  
Acq: 24 Sep 2019 21:30

| Tgt Ion | 95    | Resp  | 31284 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 95      | 100   |       |       |
| 97      | 59.2  | 43.7  | 81.1  |
| 132     | 81.9  | 61.0  | 113.2 |
| 130     | 94.0  | 65.7  | 121.9 |





#46

Tetrachloroethene

Concen: 115.279 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034787.D

Acq: 24 Sep 2019 21:30

Instrument :  
MSVOA\_U  
ClientSampleId :  
BEDN5

Tot Ion:164 Resp: 375810

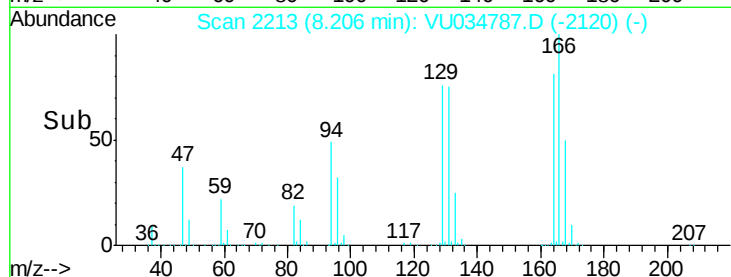
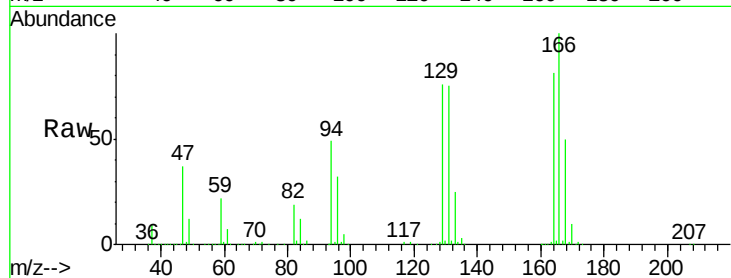
Ion Ratio Lower Upper

164 100

129 94.5 71.9 133.5

131 92.9 66.3 123.1

166 123.5 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

