

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061719\  
 Data File : VU032796.D  
 Acq On : 17 Jun 2019 20:30  
 Operator : JC/SP  
 Sample : K3324-11  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JR7

Quant Time: Jun 18 04:48:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jun 18 02:39:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 229429   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 223502   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 111921   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 60469    | 38.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 77.14%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 53173    | 42.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 85.04%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 95225    | 30.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 60.30%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 144422   | 110.66   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 110.66% |
| 24) Chloroform-d               | 4.64    | 84    | 134162   | 44.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.02%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 95091    | 46.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.66%  |
| 32) Benzene-d6                 | 5.33    | 84    | 261636   | 44.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.82%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 87769    | 47.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.58%  |
| 41) Toluene-d8                 | 7.56    | 98    | 238098   | 43.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.28%  |
| 43) trans-1,3-Dichloropropene- | 7.84    | 79    | 42160    | 43.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.34%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 108732   | 125.46   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 125.46% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.42   | 84    | 133008   | 46.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 92.72%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 101950   | 47.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.14%  |

## Target Compounds

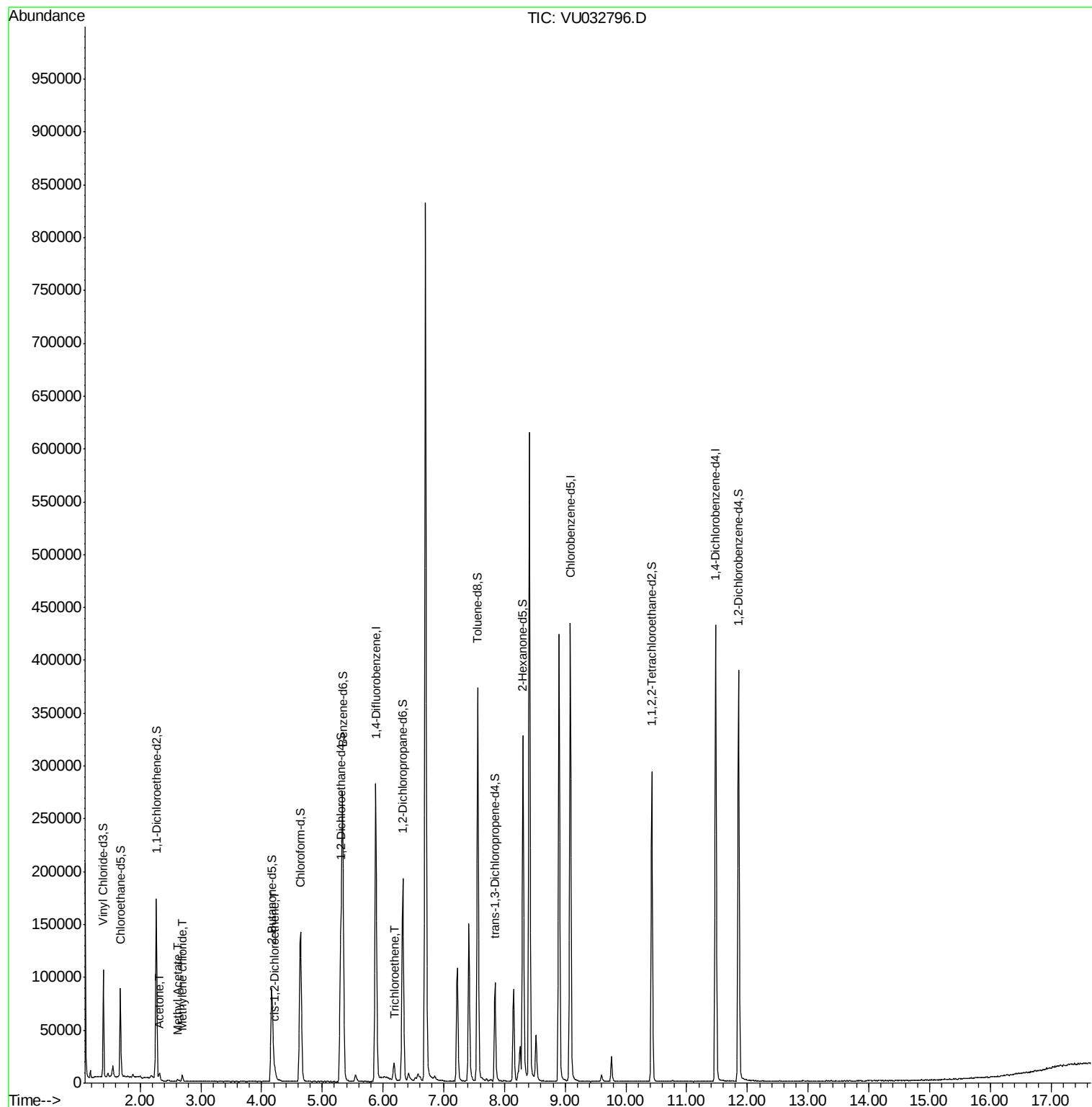
|                            |      |    |      |            | Ovalue |
|----------------------------|------|----|------|------------|--------|
| 13) Acetone                | 2.32 | 43 | 5791 | 3.213 ug/L | 100    |
| 15) Methyl Acetate         | 2.62 | 43 | 2163 | 1.059 ug/L | # 87   |
| 16) Methylene chloride     | 2.69 | 84 | 2320 | 1.368 ug/L | 87     |
| 20) cis-1,2-Dichloroethene | 4.22 | 96 | 2780 | 1.629 ug/L | 96     |
| 34) Trichloroethene        | 6.18 | 95 | 5467 | 3.178 ug/L | 94     |

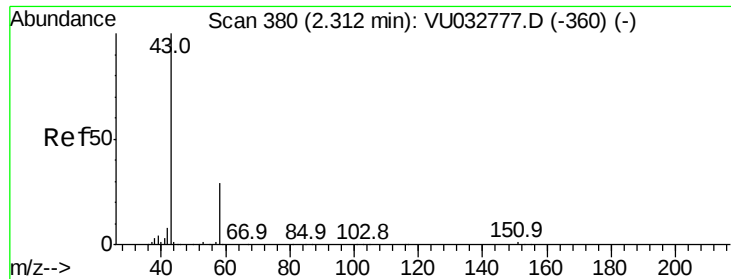
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061719\  
Data File : VU032796.D  
Acq On : 17 Jun 2019 20:30  
Operator : JC/SP  
Sample : K3324-11  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JR7

Quant Time: Jun 18 04:48:27 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jun 18 02:39:23 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 3.213 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VU032796.D

Acq: 17 Jun 2019 20:30

Instrument :

MSVOA\_U

ClientSampleId :

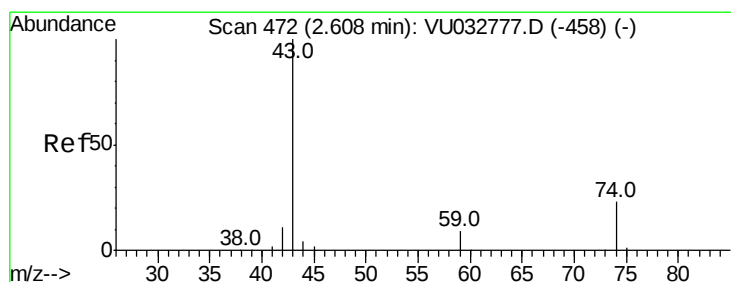
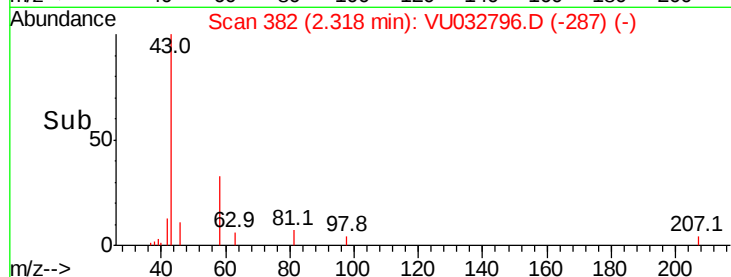
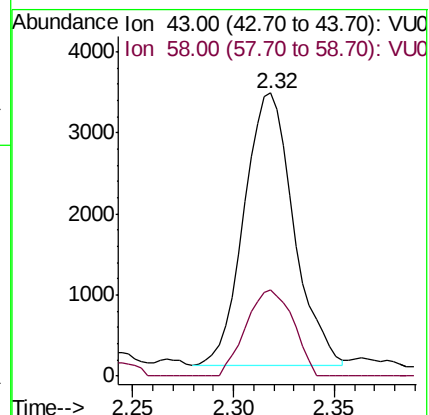
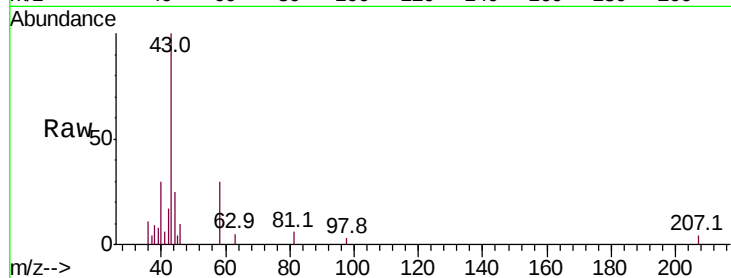
C0JR7

Tot Ion: 43 Resp: 5791

Ion Ratio Lower Upper

43 100

58 30.1 0.0 60.6



#15

Methyl Acetate

Concen: 1.059 ug/L

RT: 2.62 min Scan# 475

Delta R.T. 0.01 min

Lab File: VU032796.D

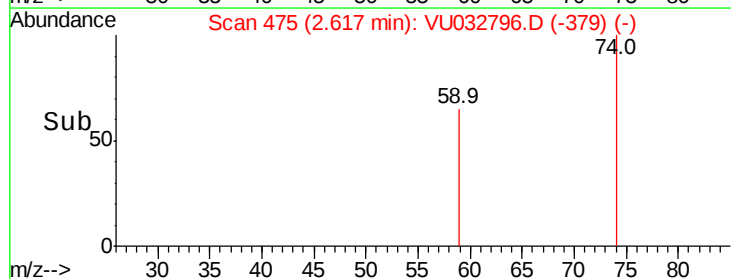
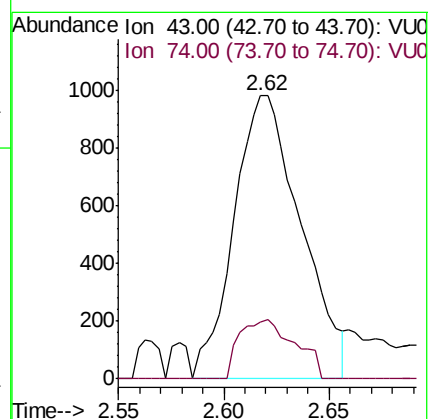
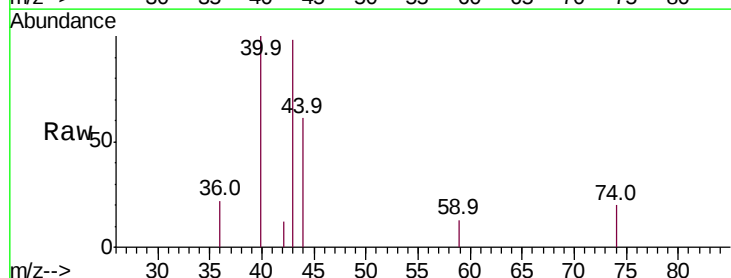
Acq: 17 Jun 2019 20:30

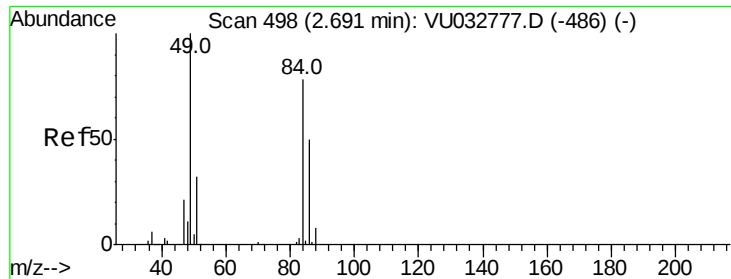
Tgt Ion: 43 Resp: 2163

Ion Ratio Lower Upper

43 100

74 16.4 18.1 27.1#

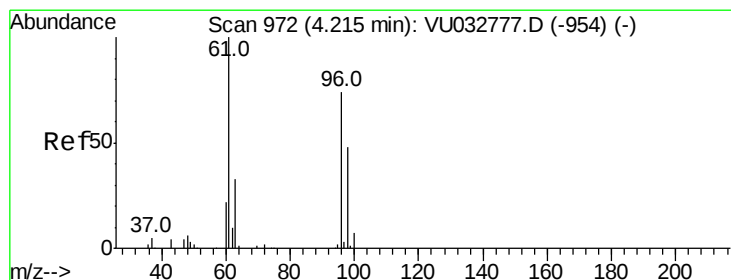
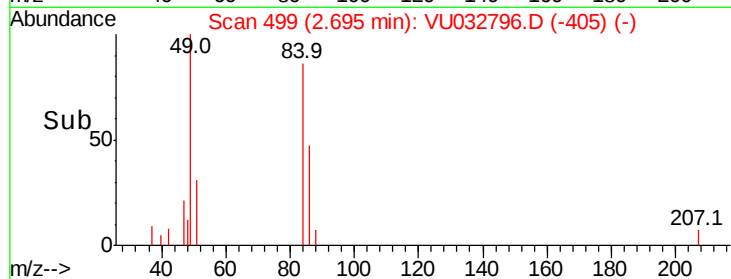
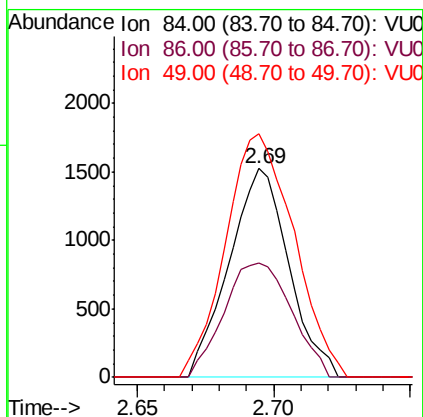
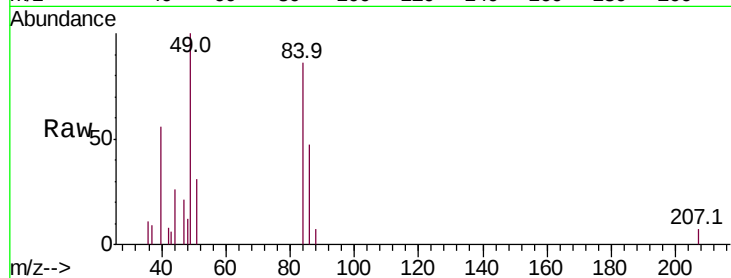




#16  
Methvlene chloride  
Concen: 1.368 ug/L  
RT: 2.69 min Scan# 499  
Delta R.T. 0.00 min  
Lab File: VU032796.D  
Acq: 17 Jun 2019 20:30

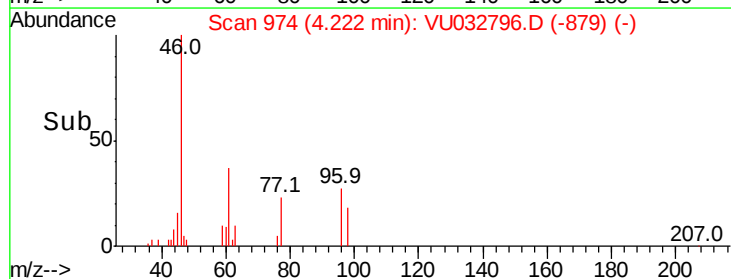
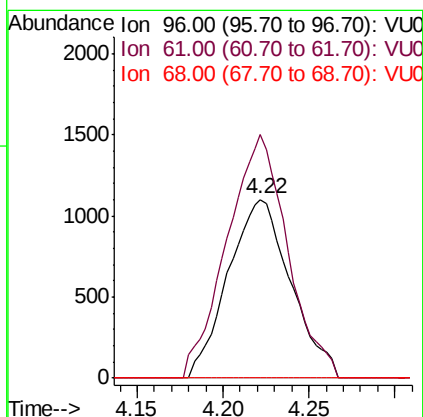
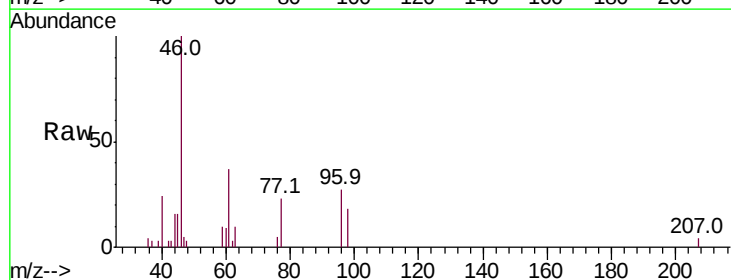
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JR7

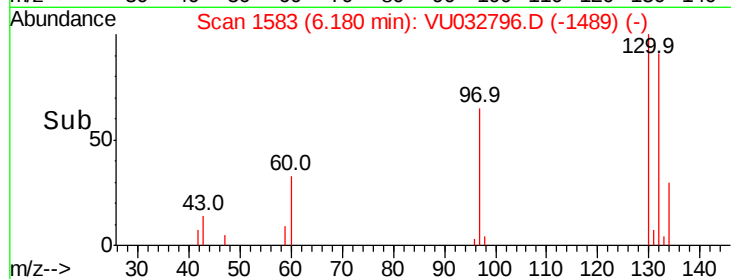
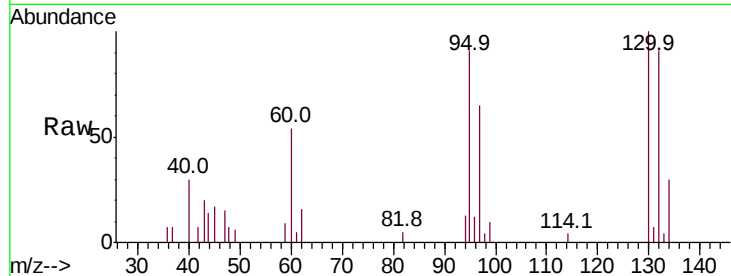
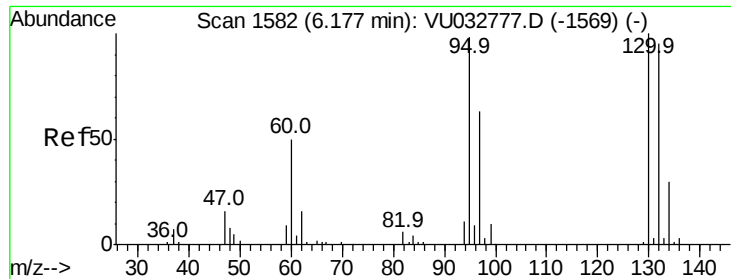
Tot Ion: 84 Resp: 2320  
Ion Ratio Lower Upper  
84 100  
86 54.5 45.5 84.5  
49 116.5 92.1 171.1



#20  
cis-1,2-Dichloroethene  
Concen: 1.629 ug/L  
RT: 4.22 min Scan# 974  
Delta R.T. 0.01 min  
Lab File: VU032796.D  
Acq: 17 Jun 2019 20:30

Tgt Ion: 96 Resp: 2780  
Ion Ratio Lower Upper  
96 100  
61 136.2 92.4 171.6  
68 0.0 0.0 0.0





#34

Trichloroethene

Concen: 3.178 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032796.D

Acq: 17 Jun 2019 20:30

Instrument :

MSVOA\_U

ClientSampleId :

C0JR7

Tot Ion: 95 Resp: 5467

Ion Ratio Lower Upper

95 100

97 71.6 45.9 85.3

132 99.5 68.5 127.3

130 109.4 70.8 131.4

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

6.18

Time-->