

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082118\  
 Data File : VU026234.D  
 Acq On : 21 Aug 2018 15:47  
 Operator : MD/SY  
 Sample : J4488-18DL 25X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0361DL

Quant Time: Aug 22 01:02:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR081718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 22 00:24:50 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 124235   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 129478   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 57121    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 32966    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 100.40% |
| 7) Chloroethane-d5             | 1.68   | 69    | 27671    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 103.80% |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 74487    | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 108.40% |
| 20) 2-Butanone-d5              | 4.19   | 46    | 108580   | 57.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 115.92% |
| 24) Chloroform-d               | 4.65   | 84    | 81223    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 109.60% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 44220    | 5.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 109.00% |
| 32) Benzene-d6                 | 5.34   | 84    | 145259   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.34   | 67    | 48758    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.80% |
| 41) Toluene-d8                 | 7.57   | 98    | 124931   | 4.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 86.00%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 17603    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.00%  |
| 46) 2-Hexanone-d5              | 8.32   | 63    | 82645    | 51.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.48% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44  | 84    | 40686    | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 52285    | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.60% |

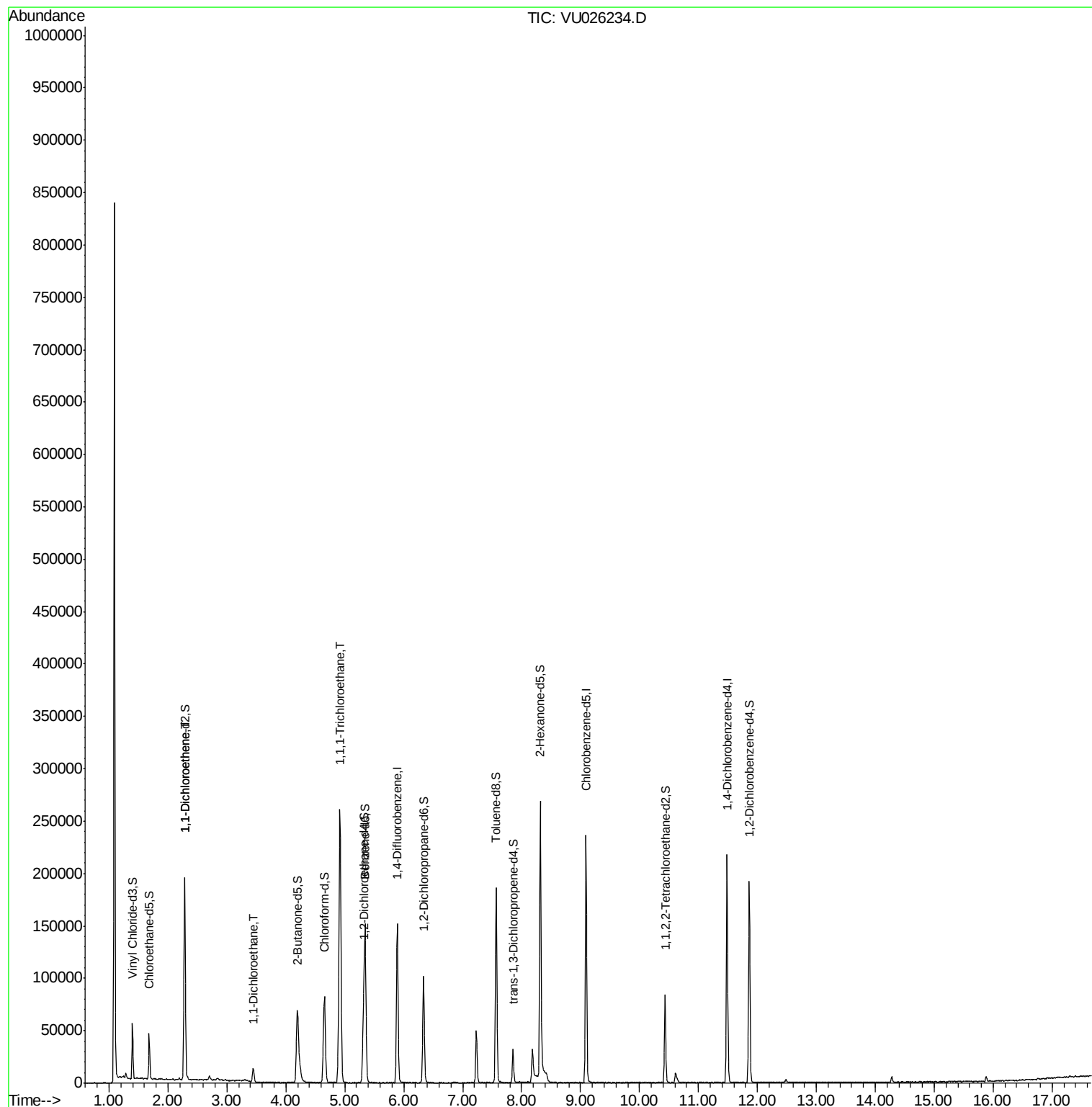
| Target Compounds          |      |    |        |       |      | Ovalue |
|---------------------------|------|----|--------|-------|------|--------|
| 12) 1,1-Dichloroethene    | 2.29 | 96 | 42696  | 5.91  | ug/L | 92     |
| 19) 1,1-Dichloroethane    | 3.45 | 63 | 13920  | 0.93  | ug/L | 95     |
| 29) 1,1,1-Trichloroethane | 4.92 | 97 | 203786 | 12.15 | ug/L | 100    |

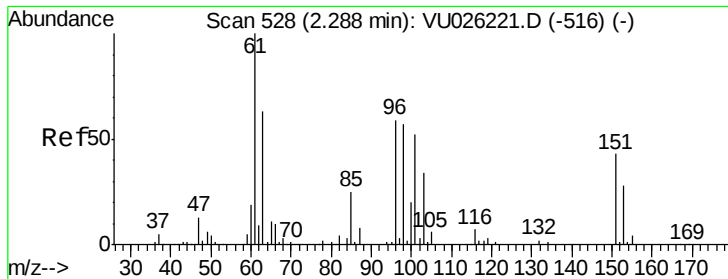
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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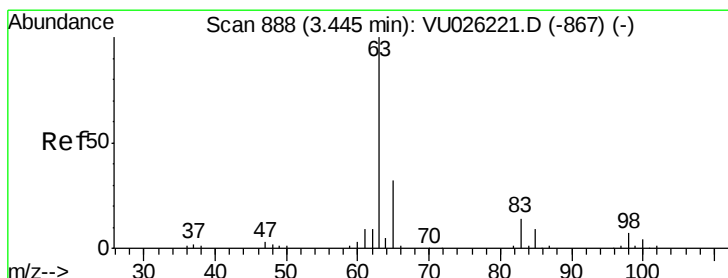
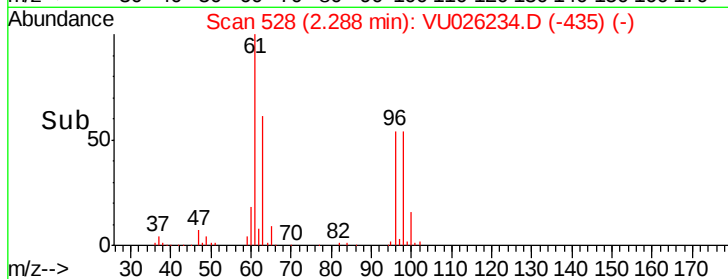
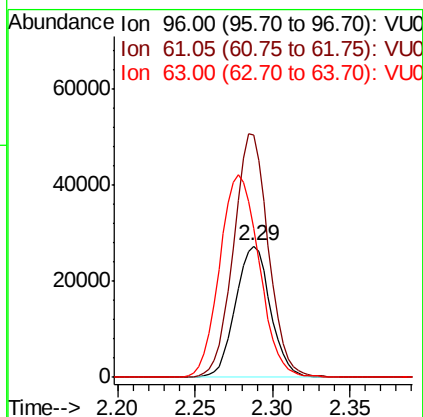
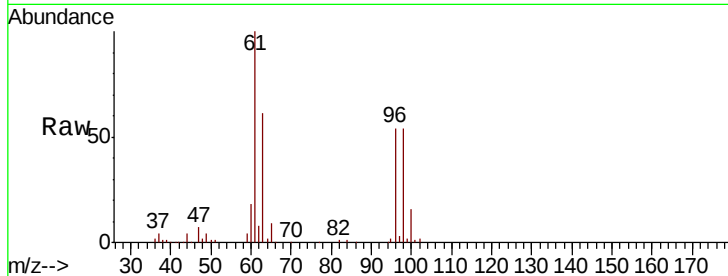




#12  
 1,1-Dichloroethene  
 Concen: 5.91 ug/L  
 RT: 2.29 min Scan# 528  
 Delta R.T. 0.00 min  
 Lab File: VU026234.D  
 Acq: 21 Aug 2018 15:47

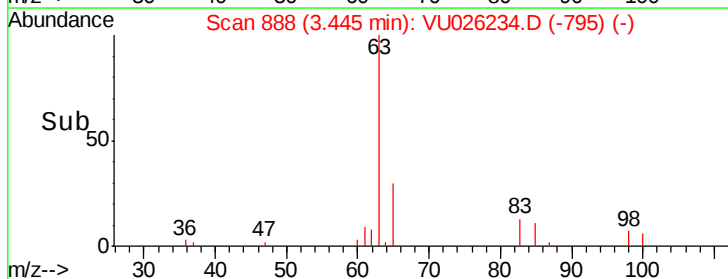
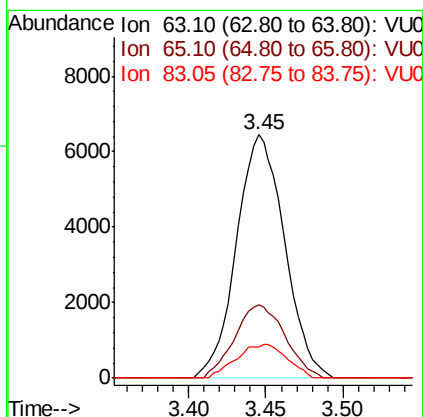
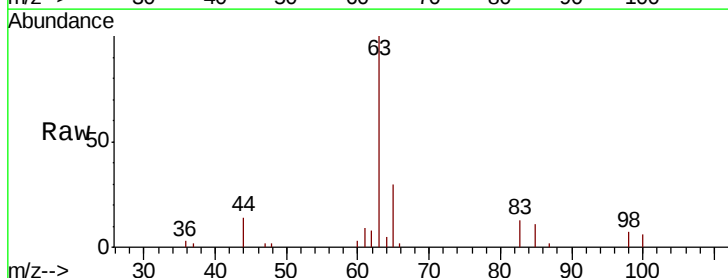
Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 C0361DL

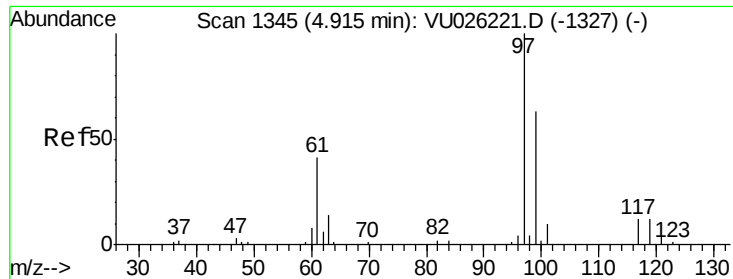
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 184.4 | 125.3 | 232.7 |
| 63      | 112.7 | 90.9  | 168.9 |



#19  
 1,1-Dichloroethane  
 Concen: 0.93 ug/L  
 RT: 3.45 min Scan# 888  
 Delta R.T. 0.00 min  
 Lab File: VU026234.D  
 Acq: 21 Aug 2018 15:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 30.0  | 23.2  | 43.0  |
| 83      | 12.8  | 10.1  | 18.9  |





#29

1,1,1-Trichloroethane

Concen: 12.15 ug/L

RT: 4.92 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VU026234.D

Acq: 21 Aug 2018 15:47

Instrument :

MSVOA\_U

ClientSampleId :

C0361DL

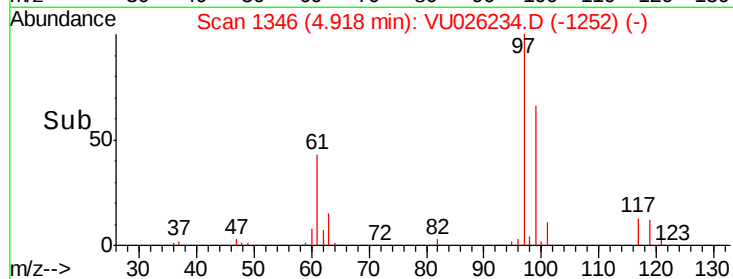
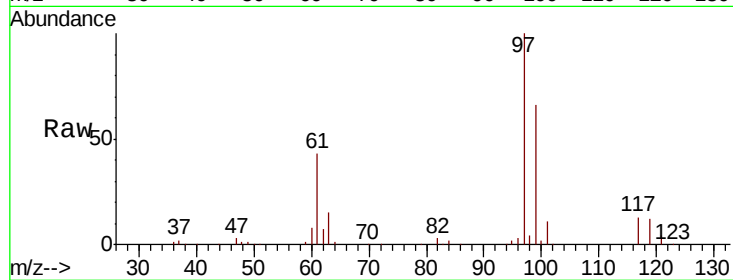
Tot Ion: 97 Resp: 203786

Ion Ratio Lower Upper

97 100

99 65.3 52.3 78.5

61 43.6 35.0 52.6



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0

