

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041319\  
 Data File : VU031158.D  
 Acq On : 13 Apr 2019 15:53  
 Operator : JC/SP  
 Sample : K2354-13 20X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF2T4

Manual Integrations  
 APPROVED

MMDadoda  
 4/15/2019 12:01:37 PM

Quant Time: Apr 13 23:00:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 13 22:25:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 469548   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 456633   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 177521   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 192382   | 45.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.80%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 152175   | 47.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.66%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 261441   | 34.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.98%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 301977   | 90.90    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.90%  |
| 24) Chloroform-d               | 4.64    | 84    | 309423   | 48.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.66%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 209374   | 47.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.84%  |
| 32) Benzene-d6                 | 5.34    | 84    | 626525   | 47.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 209246   | 45.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 91.60%  |
| 41) Toluene-d8                 | 7.56    | 98    | 528740   | 44.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.50%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 89227    | 42.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.66%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 180430   | 86.41    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.41%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 282703   | 45.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.76%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 181081   | 51.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.74% |

| Target Compounds       | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|------------------------|------|------|----------|---------|--------|--------|
| 12) 1,1-Dichloroethene | 2.28 | 96   | 14414    | 4.441   | ug/L # | 1      |
| 34) Trichloroethene    | 6.19 | 95   | 11439m   | 3.121   | ug/L   |        |
| 46) Tetrachloroethene  | 8.22 | 164  | 445346   | 167.135 | ug/L   | 99     |

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

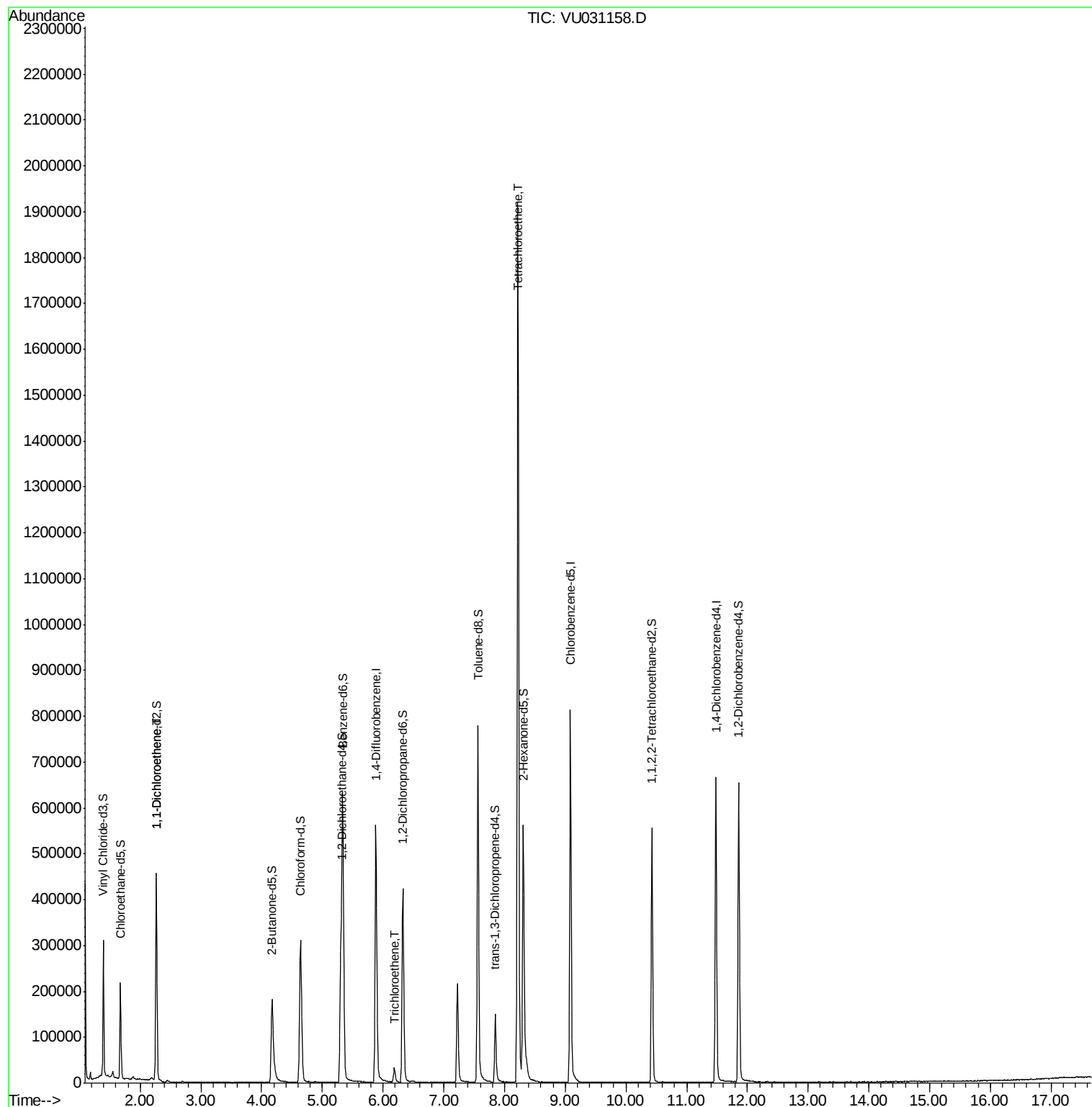
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041319\  
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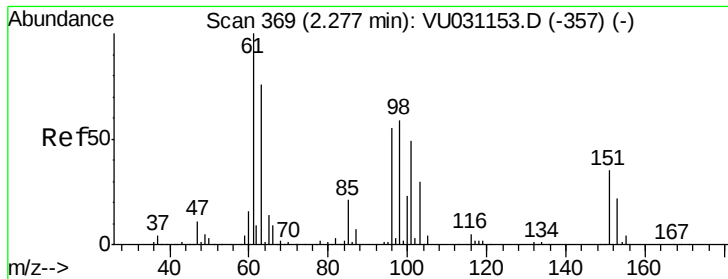
Instrument :  
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Response via : Initial Calibration





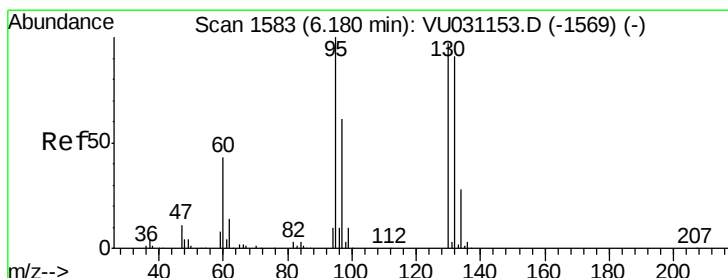
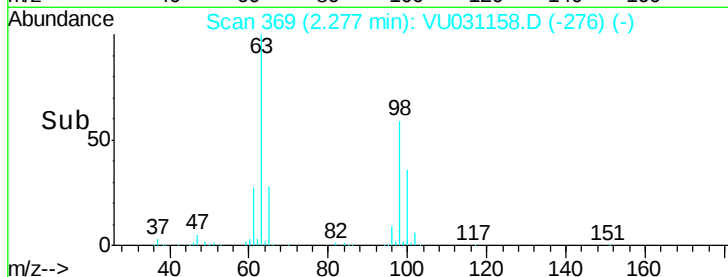
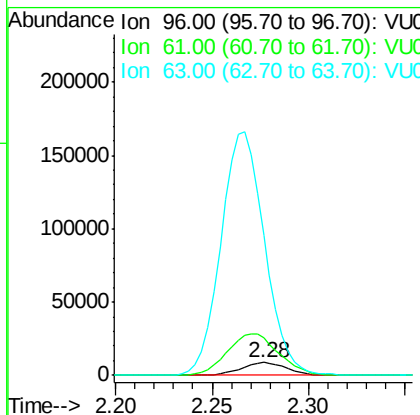
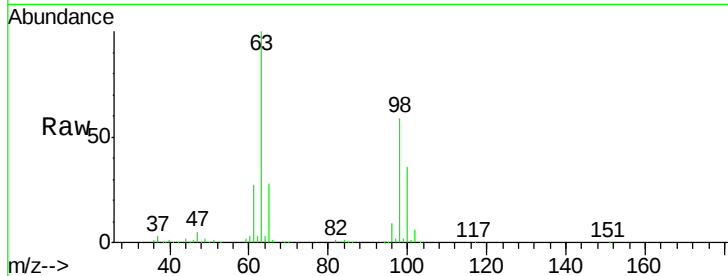
#12  
1,1-Dichloroethene  
Concen: 4.441 ug/L  
RT: 2.28 min Scan# 369  
Delta R.T. -0.00 min  
Lab File: VU031158.D  
Acq: 13 Apr 2019 15:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF2T4

Tot Ion: 96 Resp: 14414  
Ion Ratio Lower Upper  
96 100  
61 286.5 132.0 245.2#  
63 1078.6 90.9 168.9

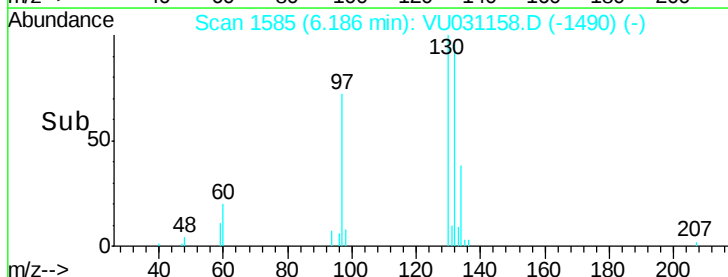
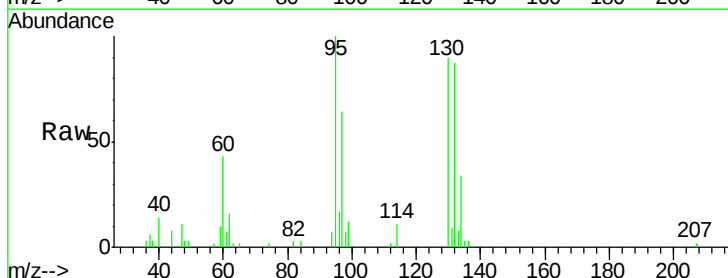
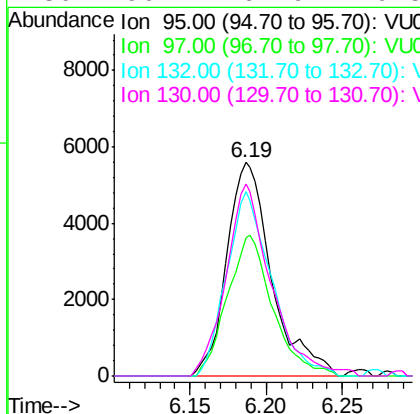
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APPROVED

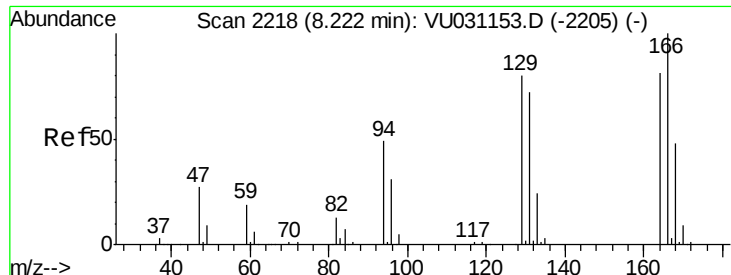
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#34  
Trichloroethene  
Concen: 3.121 ug/L m  
RT: 6.19 min Scan# 1585  
Delta R.T. 0.01 min  
Lab File: VU031158.D  
Acq: 13 Apr 2019 15:53

Tgt Ion: 95 Resp: 11439  
Ion Ratio Lower Upper  
95 100  
97 64.5 44.5 82.7  
132 86.6 61.5 114.1  
130 90.1 64.9 120.5





#46

Tetrachloroethene

Concen: 167.135 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU031158.D

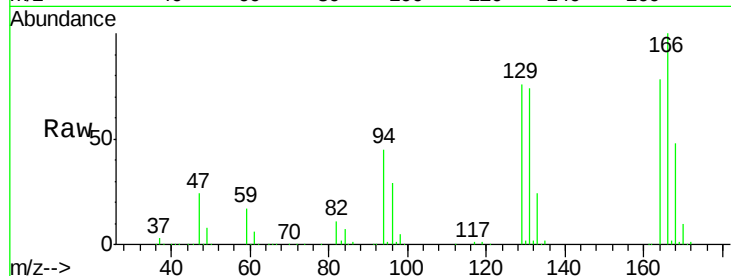
Acq: 13 Apr 2019 15:53

Instrument :

MSVOA\_U

ClientSampleId :

BF2T4



Tot Ion:164 Resp: 445346

Ion Ratio Lower Upper

164 100

129 96.8 67.4 125.2

131 94.4 65.9 122.5

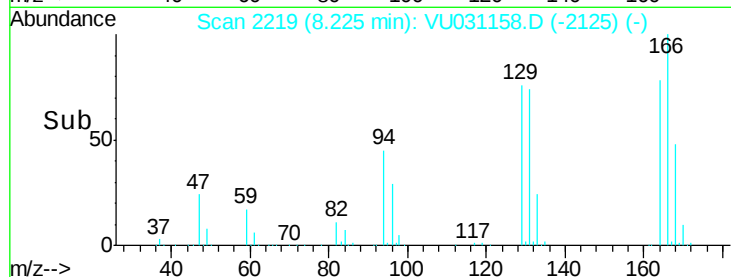
166 128.1 88.6 164.6

Manual Integrations

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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

