

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU043019\  
 Data File : VU031643.D  
 Acq On : 30 Apr 2019 18:49  
 Operator : JC/SP  
 Sample : K2590-13  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0XB9

Manual Integrations  
 APPROVED

MMDadoda  
 5/1/2019 11:16:48 AM

Quant Time: May 01 03:52:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 01 01:38:49 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 638269   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 607710   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 217952   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 301535   | 56.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 112.90% |
| 7) Chloroethane-d5             | 1.68    | 69    | 220771   | 53.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 106.96% |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 453705   | 42.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.30%  |
| 21) 2-Butanone-d5              | 4.19    | 46    | 488461   | 100.92   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.92% |
| 24) Chloroform-d               | 4.64    | 84    | 503157   | 51.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.86% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 358293   | 56.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 112.12% |
| 32) Benzene-d6                 | 5.33    | 84    | 973300   | 52.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.32% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 350464   | 53.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 106.76% |
| 41) Toluene-d8                 | 7.56    | 98    | 769884   | 47.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.74%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 132708   | 47.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.18%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 281151   | 98.94    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.94%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 418467   | 47.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.98%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 227212   | 49.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.14%  |

## Target Compounds

|                           |      |     |         |              | Ovalue |
|---------------------------|------|-----|---------|--------------|--------|
| 9) Trichlorofluoromethane | 1.87 | 101 | 665929  | 73.579 ug/L  | 99     |
| 13) Acetone               | 2.34 | 43  | 41662   | 7.642 ug/L   | 91     |
| 31) Carbon tetrachloride  | 5.13 | 117 | 17785m  | 2.444 ug/L   |        |
| 34) Trichloroethene       | 6.18 | 95  | 732452  | 135.238 ug/L | 94     |
| 46) Tetrachloroethene     | 8.22 | 164 | 1781311 | 482.440 ug/L | 96     |

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

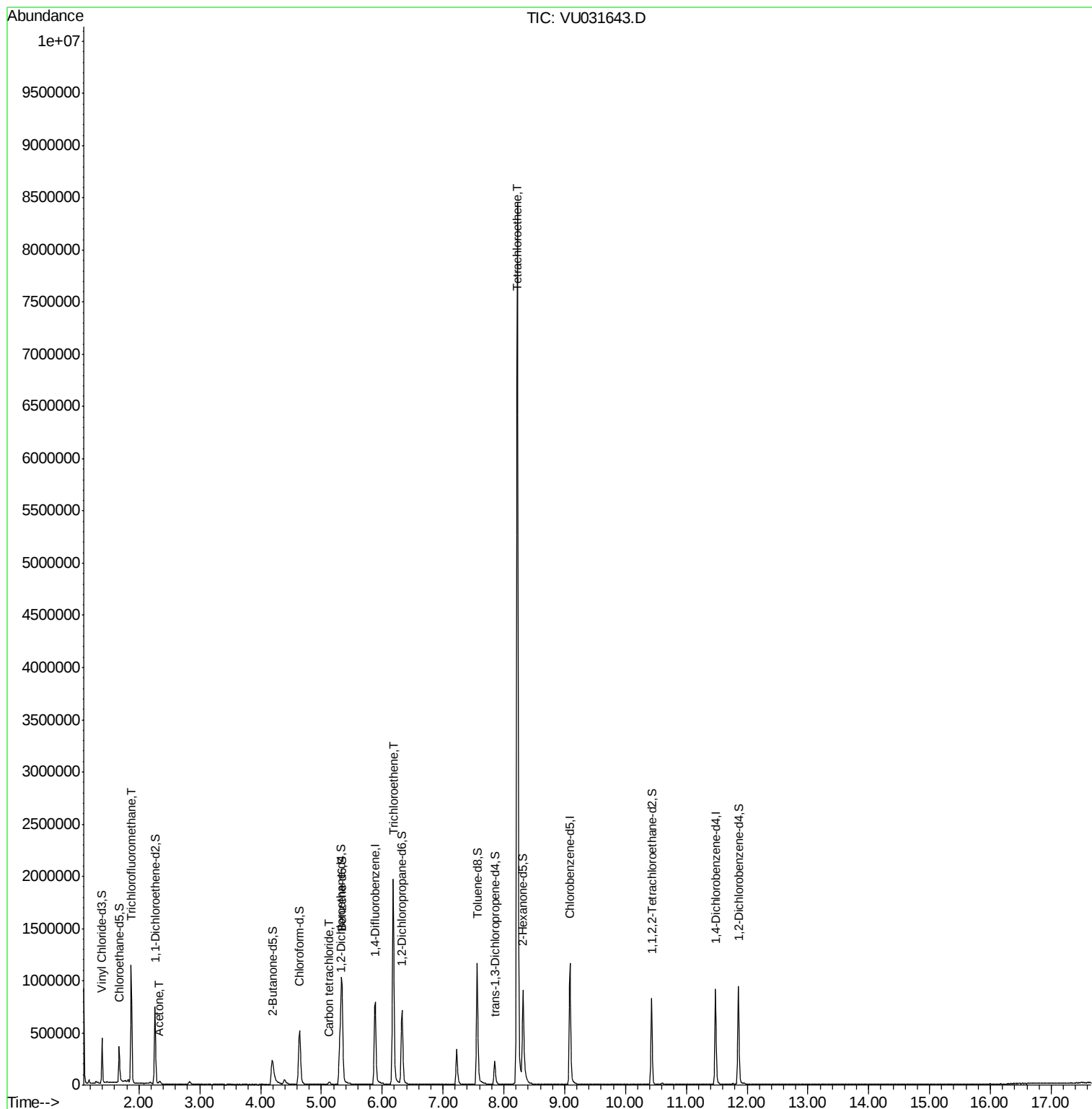
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU043019\  
Data File : VU031643.D  
Acq On : 30 Apr 2019 18:49  
Operator : JC/SP  
Sample : K2590-13  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 20 Sample Multiplier: 1

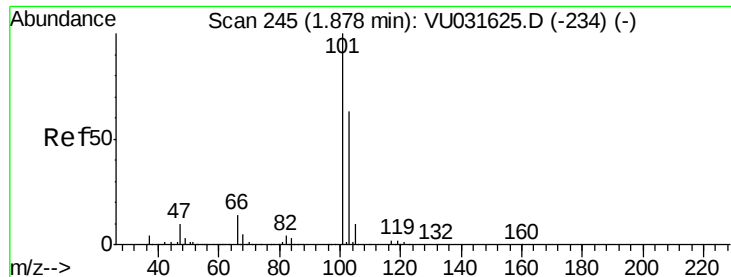
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0XB9

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Quant Time: May 01 03:52:04 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed May 01 01:38:49 2019  
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#9

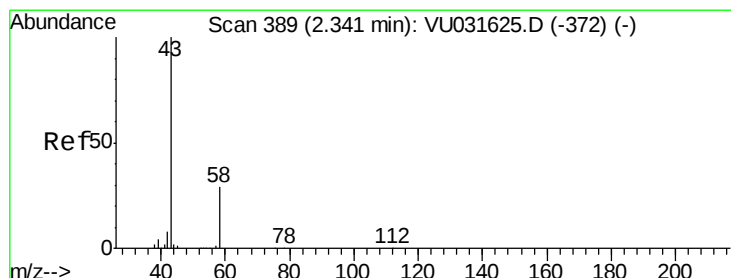
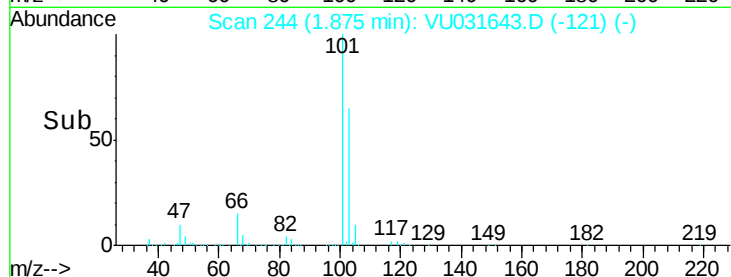
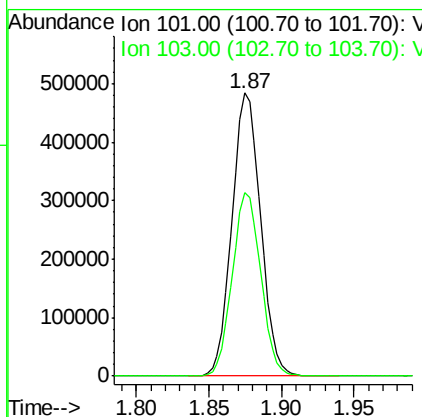
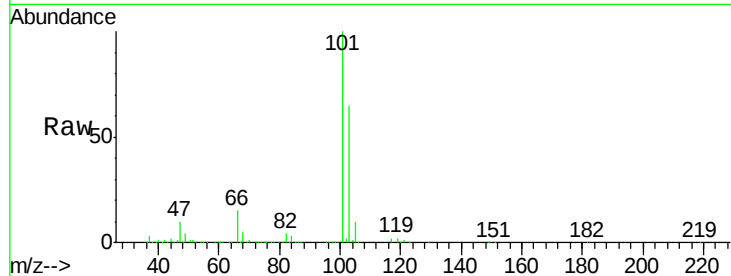
Trichlorofluoromethane  
Concen: 73.579 ug/L  
RT: 1.87 min Scan# 244  
Delta R.T. -0.00 min  
Lab File: VU031643.D  
Acq: 30 Apr 2019 18:49

Instrument :  
MSVOA\_U  
ClientSampled :  
C0XB9

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 665929 |       |       |
| 103     | 64.4  | 50.8   | 76.2  |       |

Manual Integrations  
APPROVED

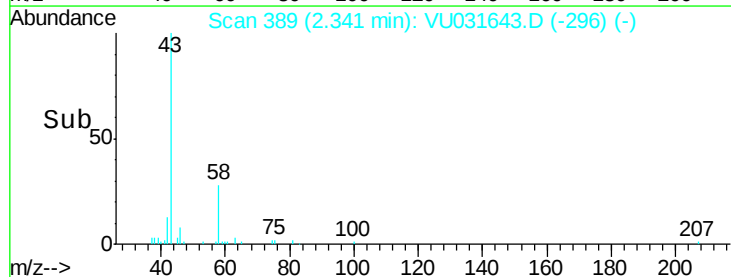
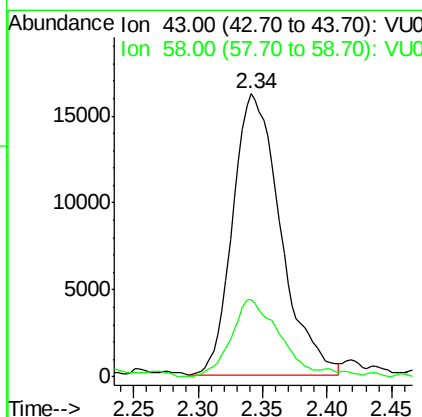
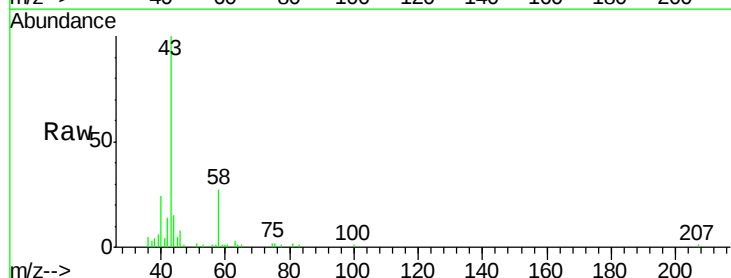
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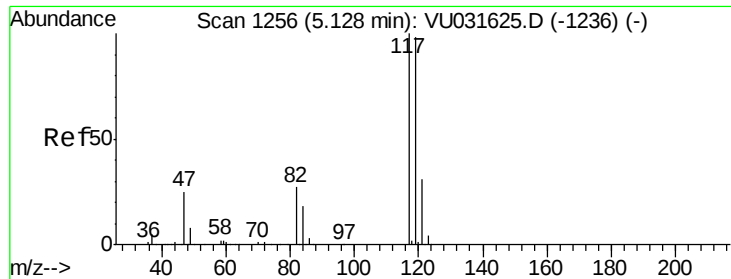


#13

Acetone  
Concen: 7.642 ug/L  
RT: 2.34 min Scan# 389  
Delta R.T. 0.00 min  
Lab File: VU031643.D  
Acq: 30 Apr 2019 18:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 41662 |       |       |
| 58      | 27.4  | 0.0   | 64.4  |       |





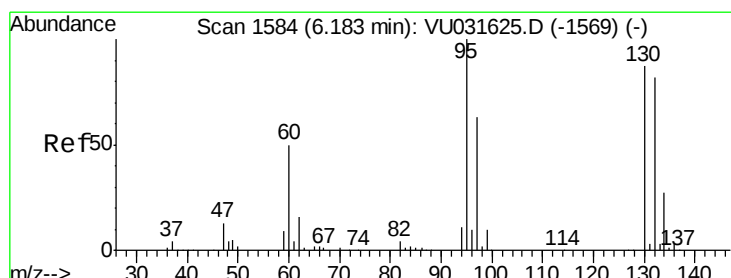
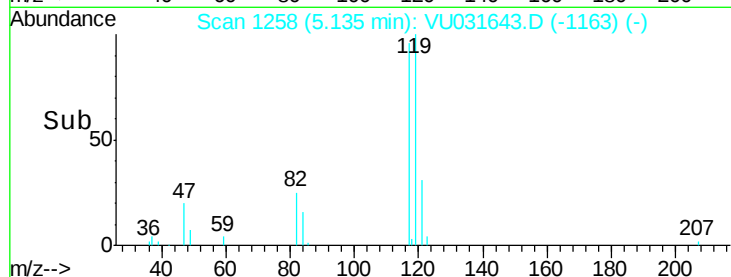
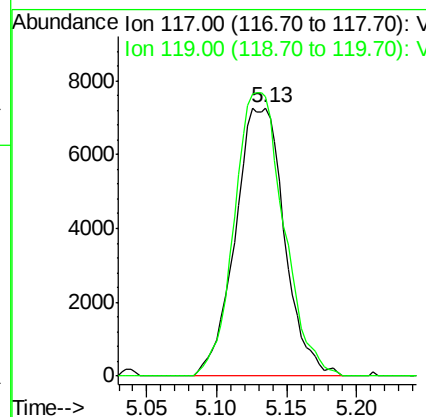
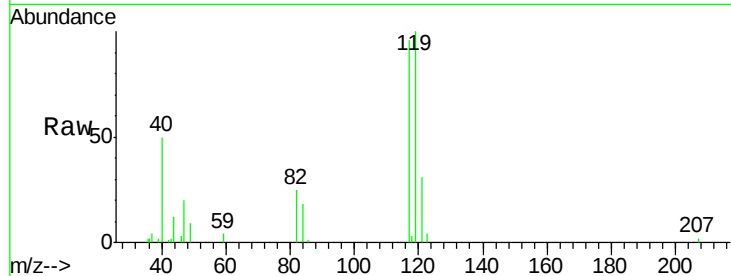
#31  
Carbon tetrachloride  
Concen: 2.444 ug/L m  
RT: 5.13 min Scan# 1258  
Delta R.T. 0.01 min  
Lab File: VU031643.D  
Acq: 30 Apr 2019 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0XB9

Tot Ion:117 Resp: 17785  
Ion Ratio Lower Upper  
117 100  
119 106.6 76.6 114.8

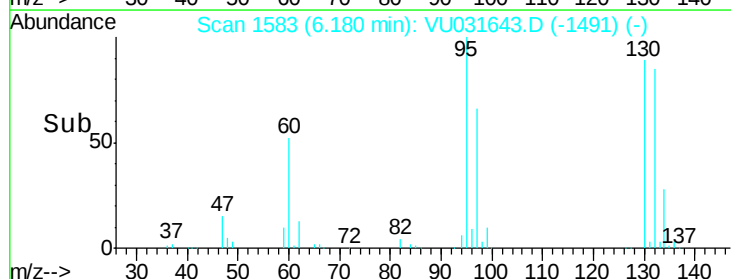
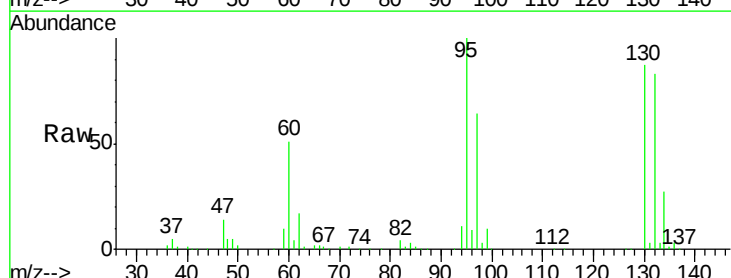
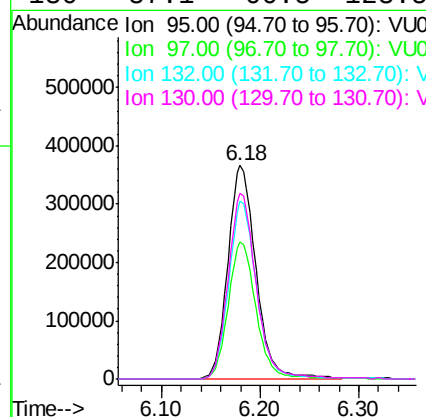
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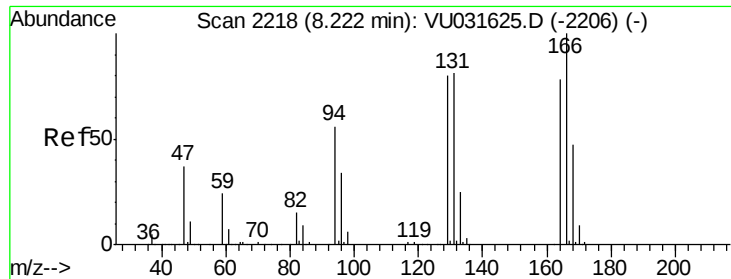
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5/1/2019 11:16:48 AM



#34  
Trichloroethene  
Concen: 135.238 ug/L  
RT: 6.18 min Scan# 1583  
Delta R.T. -0.00 min  
Lab File: VU031643.D  
Acq: 30 Apr 2019 18:49

Tgt Ion: 95 Resp: 732452  
Ion Ratio Lower Upper  
95 100  
97 64.4 44.8 83.2  
132 83.1 63.1 117.1  
130 87.1 66.5 123.5





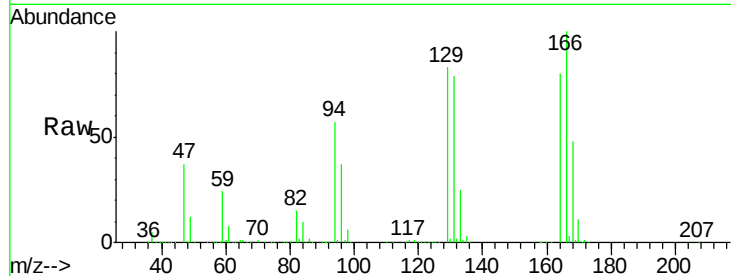
#46  
 Tetrachloroethene  
 Concen: 482.440 ug/L  
 RT: 8.22 min Scan# 2219  
 Delta R.T. 0.00 min  
 Lab File: VU031643.D  
 Acq: 30 Apr 2019 18:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0XB9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 129     | 103.8 | 71.5  | 132.9 |
| 131     | 98.7  | 69.0  | 128.2 |
| 166     | 124.9 | 93.7  | 173.9 |

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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

