

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041219\  
 Data File : VU031149.D  
 Acq On : 12 Apr 2019 23:13  
 Operator : JC/SP  
 Sample : K2409-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFC22

Manual Integrations  
 APPROVED

MMDadoda  
 4/15/2019 12:49:35 PM

Quant Time: Apr 13 04:07:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 13 01:01:33 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 497621   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 499799   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 201892   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 208578   | 46.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 93.90% |
| 7) Chloroethane-d5             | 1.68    | 69    | 155491   | 46.12    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.24% |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 261748   | 32.58    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.16% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 301486   | 85.63    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 85.63% |
| 24) Chloroform-d               | 4.64    | 84    | 318848   | 46.99    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.98% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 220182   | 47.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.10% |
| 32) Benzene-d6                 | 5.33    | 84    | 652073   | 44.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.38% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 223335   | 44.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.32% |
| 41) Toluene-d8                 | 7.56    | 98    | 562078   | 43.46    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.92% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 93863    | 41.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.34% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 183654   | 80.36    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 80.36% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 298867   | 44.31    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.62% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 198401   | 49.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.94% |

## Target Compounds

|                            |      |     |        |              | Ovalue |
|----------------------------|------|-----|--------|--------------|--------|
| 13) Acetone                | 2.32 | 43  | 13247  | 3.677 ug/L   | 95     |
| 20) cis-1,2-Dichloroethene | 4.22 | 96  | 3707m  | 0.919 ug/L   |        |
| 34) Trichloroethene        | 6.18 | 95  | 450618 | 112.332 ug/L | 94     |
| 46) Tetrachloroethene      | 8.22 | 164 | 3093   | 1.061 ug/L   | 95     |

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

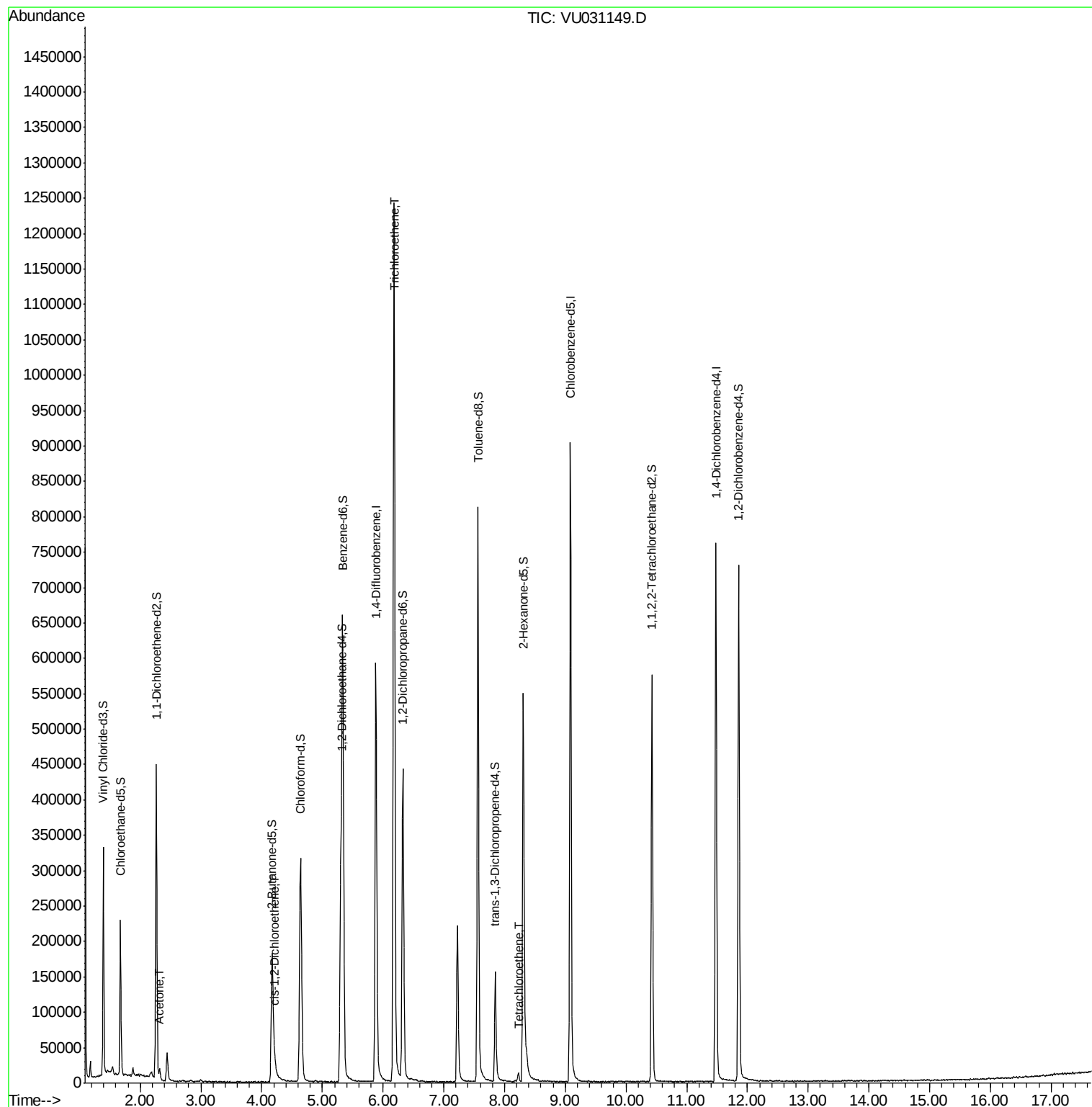
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041219\  
Data File : VU031149.D  
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Operator : JC/SP  
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Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 24 Sample Multiplier: 1

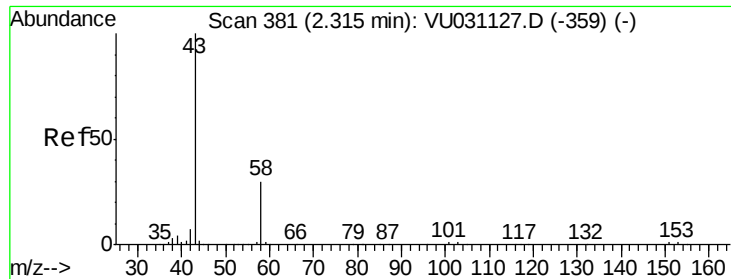
Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 13 01:01:33 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 3.677 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU031149.D

Acq: 12 Apr 2019 23:13

Instrument :

MSVOA\_U

ClientSampleId :

BFC22

Tot Ion: 43 Resp: 13247

Ion Ratio Lower Upper

43 100

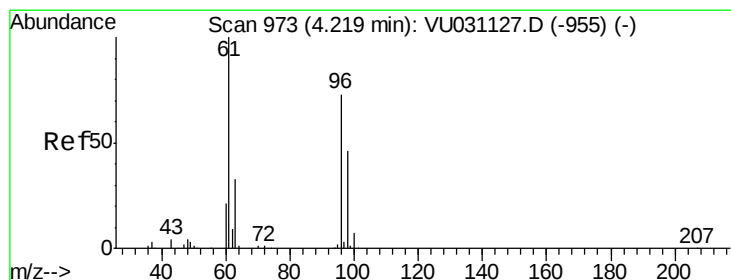
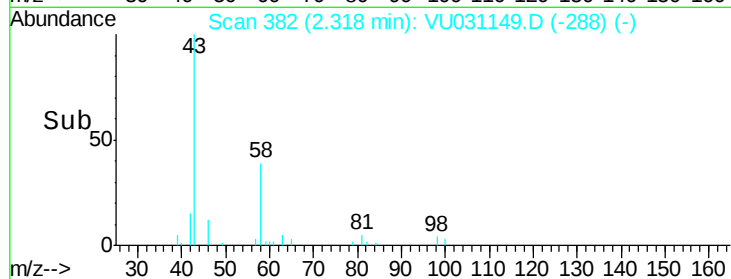
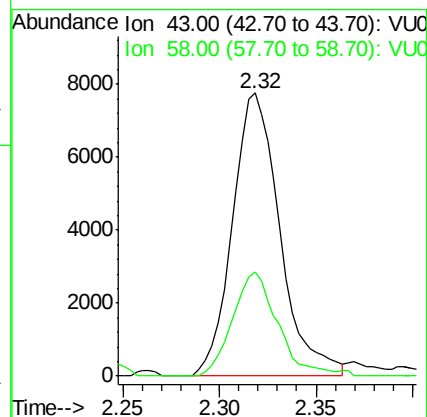
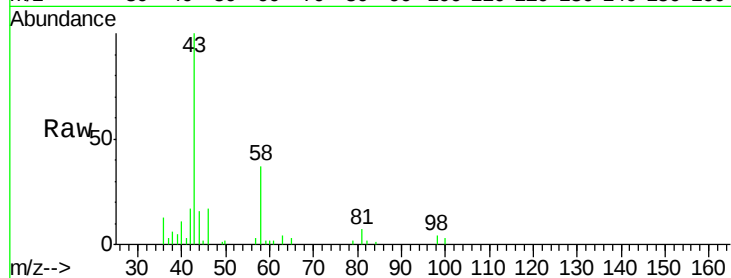
58 34.6 0.0 64.0

Manual Integrations

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4/15/2019 12:49:35 PM



#20

cis-1,2-Dichloroethene

Concen: 0.919 ug/L m

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU031149.D

Acq: 12 Apr 2019 23:13

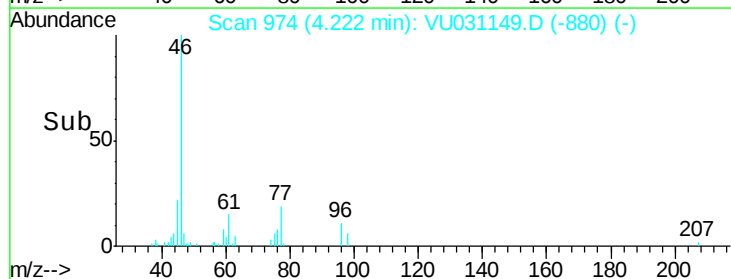
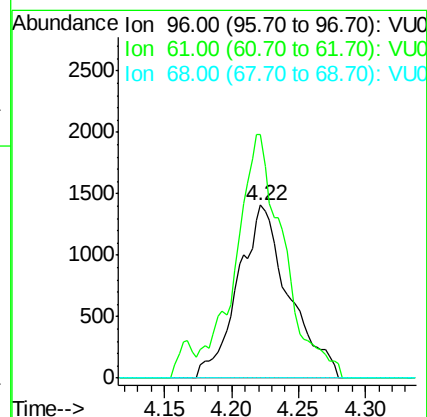
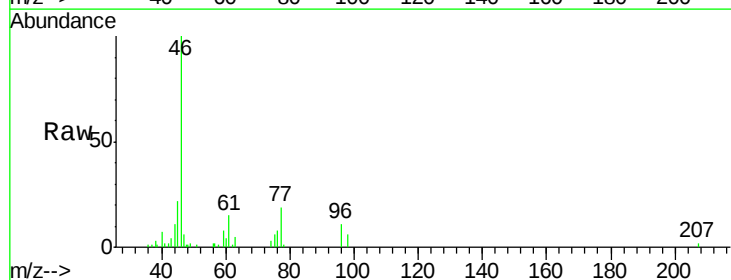
Tgt Ion: 96 Resp: 3707

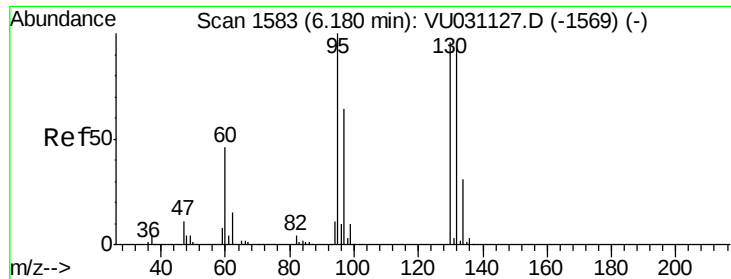
Ion Ratio Lower Upper

96 100

61 140.8 102.9 191.1

68 0.0 0.0 0.0





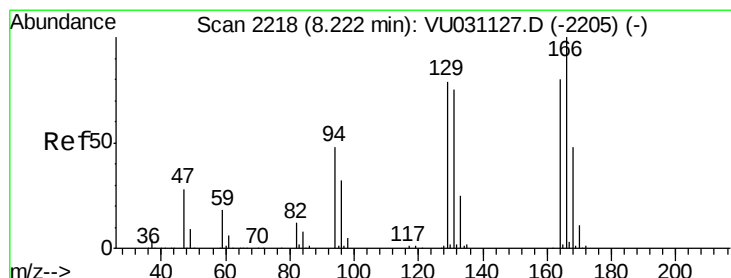
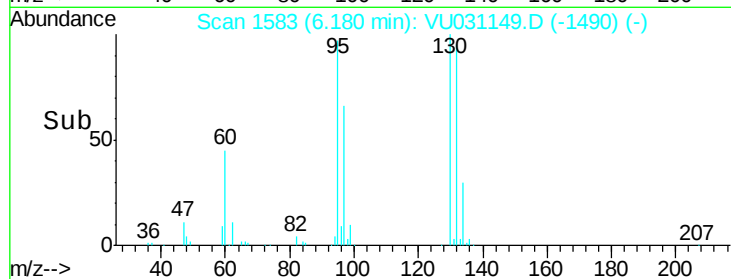
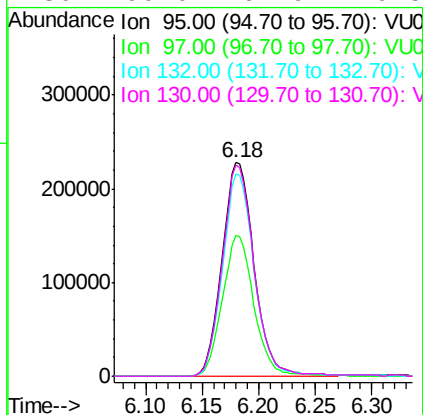
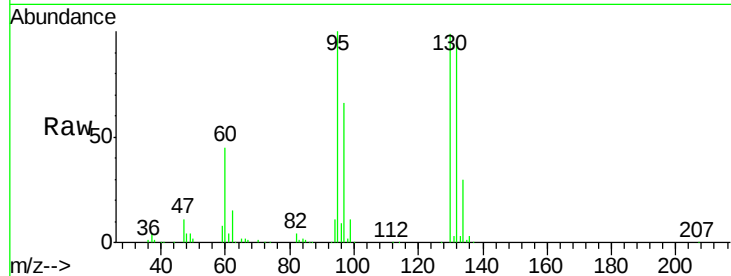
#34  
 Trichloroethene  
 Concen: 112.332 ug/L  
 RT: 6.18 min Scan# 1583  
 Delta R.T. 0.00 min  
 Lab File: VU031149.D  
 Acq: 12 Apr 2019 23:13

Instrument :  
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| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 95      | 100  |       | 450618 |       |       |
| 97      | 65.7 | 44.5  | 82.7   |       |       |
| 132     | 94.5 | 61.5  | 114.1  |       |       |
| 130     | 99.0 | 64.9  | 120.5  |       |       |

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#46  
 Tetrachloroethene  
 Concen: 1.061 ug/L  
 RT: 8.22 min Scan# 2219  
 Delta R.T. 0.00 min  
 Lab File: VU031149.D  
 Acq: 12 Apr 2019 23:13

| Tgt Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 164     | 100   |       | 3093  |       |       |
| 129     | 87.2  | 67.4  | 125.2 |       |       |
| 131     | 92.9  | 65.9  | 122.5 |       |       |
| 166     | 121.0 | 88.6  | 164.6 |       |       |

