

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032419\  
 Data File : VU030377.D  
 Acq On : 24 Mar 2019 17:48  
 Operator : JC/SP  
 Sample : K2016-11  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0988

Manual Integrations  
 APPROVED

MMDadoda  
 3/25/2019 12:36:13 PM

Quant Time: Mar 25 13:43:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 25 03:20:51 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 433332   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.15  | 117  | 477234   | 50.00 | ug/L  | 0.07     |
| 60) 1,4-Dichlorobenzene-d4 | 11.52 | 152  | 289769m  | 50.00 | ug/L  | 0.04     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 131076   | 37.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 75.18%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 108824   | 39.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 78.74%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 195609m  | 29.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 59.14%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 292808   | 89.32    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.32%  |
| 24) Chloroform-d               | 4.65    | 84    | 358464   | 59.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 119.32% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 179227   | 45.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.16%  |
| 32) Benzene-d6                 | 5.35    | 84    | 555389   | 40.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 81.16%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 196720   | 42.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 84.02%  |
| 41) Toluene-d8                 | 7.56    | 98    | 504633   | 41.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.12%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 82717    | 37.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.14%  |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 205858   | 81.13    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 81.13%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 285170   | 42.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 85.12%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.92   | 152   | 282855   | 48.72    | ug/L | 0.06    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.44%  |

## Target Compounds

|                            |       |     |           |          | Ovalue    |
|----------------------------|-------|-----|-----------|----------|-----------|
| 13) Acetone                | 2.32  | 43  | 143647    | 43.328   | ug/L 100  |
| 16) Methylene chloride     | 2.70  | 84  | 5990      | 1.639    | ug/L 86   |
| 25) Chloroform             | 4.67  | 83  | 2406025   | 379.210  | ug/L 100  |
| 29) Cyclohexane            | 4.99  | 56  | 67731     | 9.378    | ug/L 99   |
| 31) Carbon tetrachloride   | 5.13  | 117 | 738163    | 149.034  | ug/L 98   |
| 33) Benzene                | 5.37  | 78  | 44991033m | 2769.440 | ug/L      |
| 34) Trichloroethene        | 6.19  | 95  | 9181      | 2.299    | ug/L 96   |
| 35) Methylcyclohexane      | 6.41  | 83  | 22513     | 3.426    | ug/L # 75 |
| 38) Bromodichloromethane   | 6.76  | 83  | 25020     | 4.567    | ug/L 99   |
| 42) Toluene                | 7.64  | 91  | 56426     | 3.347    | ug/L 100  |
| 46) Tetrachloroethene      | 8.23  | 164 | 7454      | 2.672    | ug/L 91   |
| 49) Dibromochloromethane   | 8.48  | 129 | 6925      | 1.711    | ug/L 99   |
| 51) Chlorobenzene          | 9.11  | 112 | 66337859m | 6492.078 | ug/L      |
| 62) 1,3-Dichlorobenzene    | 11.43 | 146 | 19342842  | 2041.196 | ug/L 96   |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146 | 42401799m | 4346.437 | ug/L      |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146 | 46885689m | 4893.117 | ug/L      |
| 67) 1,3,5-Trichlorobenzene | 12.89 | 180 | 19095     | 2.692    | ug/L 99   |

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|----------------------------|-------|------|-----------|----------|-------|----------|
| 68) 1,2,4-trichlorobenzene | 13.51 | 180  | 22741721m | 3689.489 | ug/L  |          |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180  | 8672317   | 1332.395 | ug/L  | 99       |

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

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