

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081418\  
 Data File : VU026097.D  
 Acq On : 14 Aug 2018 13:28  
 Operator : MD/SY  
 Sample : J4451-22  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZL2

Quant Time: Aug 15 18:37:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 15 09:11:09 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 273909   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 263223   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 135828   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 80701    | 40.31    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 80.62% |
| 7) Chloroethane-d5             | 1.66    | 69    | 74299    | 46.81    | ug/L | -0.02  |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.62% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 126364   | 33.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.42% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 149254   | 89.44    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.44% |
| 24) Chloroform-d               | 4.65    | 84    | 204730   | 48.22    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.44% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 134728   | 46.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.96% |
| 32) Benzene-d6                 | 5.34    | 84    | 378054   | 46.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.50% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 125715   | 47.53    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.06% |
| 41) Toluene-d8                 | 7.57    | 98    | 359732   | 46.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.00% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 62812    | 47.14    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.28% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 109504   | 91.16    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.16% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 190113   | 49.15    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.30% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 156615   | 46.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.54% |

## Target Compounds

|                                |      |     |        |        |      | Ovalue |
|--------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 26197  | 10.98  | ug/L | 100    |
| 3) Chloromethane               | 1.33 | 50  | 76404  | 35.68  | ug/L | 99     |
| 6) Bromomethane                | 1.60 | 94  | 8000   | 7.24   | ug/L | 93     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 85985  | 29.09  | ug/L | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 47915  | 27.86  | ug/L | 99     |
| 14) Carbon disulfide           | 2.47 | 76  | 147487 | 28.35  | ug/L | 99     |
| 15) Methyl Acetate             | 2.62 | 43  | 6780   | 3.12   | ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 100211 | 56.87  | ug/L | 97     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 660527 | 114.07 | ug/L | 99     |
| 25) Chloroform                 | 4.67 | 83  | 162623 | 45.70  | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 5.40 | 62  | 129608 | 44.10  | ug/L | 100    |
| 30) 1,1,1-Trichloroethane      | 4.91 | 97  | 72503  | 21.83  | ug/L | 98     |
| 31) Carbon tetrachloride       | 5.13 | 117 | 152172 | 50.18  | ug/L | 98     |
| 34) Trichloroethene            | 6.18 | 95  | 3964   | 2.02   | ug/L | 89     |
| 35) Methylcyclohexane          | 6.42 | 83  | 84346  | 28.20  | ug/L | 98     |
| 39) cis-1,3-Dichloropropene    | 7.27 | 75  | 98738  | 31.76  | ug/L | 97     |
| 40) 4-Methyl-2-pentanone       | 7.46 | 43  | 216976 | 76.98  | ug/L | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) Toluene                    | 7.64  | 91   | 459242   | 57.71 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 57296    | 29.30 | ug/L  | 94       |
| 49) Dibromochloromethane       | 8.48  | 129  | 107458   | 45.56 | ug/L  | 96       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 93313    | 43.81 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.38  | 106  | 123719   | 37.18 | ug/L  | 99       |
| 55) Styrene                    | 9.80  | 104  | 159739   | 29.05 | ug/L  | 94       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 85747    | 25.80 | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 141054   | 31.82 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 23147    | 29.30 | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 129305   | 45.02 | ug/L  | 100      |

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

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