

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041319\  
 Data File : VU031195.D  
 Acq On : 14 Apr 2019 07:06  
 Operator : JC/SP  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05037

Quant Time: Apr 15 01:44:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Apr 15 01:39:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 404308   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 467871   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 182005   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 197524   | 54.73    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 109.46%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 176139   | 64.30    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 128.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 409985   | 62.81    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 125.62%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 296788   | 103.76   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.76%  |
| 24) Chloroform-d               | 4.64    | 84    | 297879   | 54.03    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.06%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 193868   | 51.53    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.06%  |
| 32) Benzene-d6                 | 5.33    | 84    | 572801   | 41.94    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.88%   |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 191105   | 40.83    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 81.66%   |
| 41) Toluene-d8                 | 7.56    | 98    | 512027   | 42.29    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.58%   |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 83296    | 39.03    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.06%   |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 181821   | 84.99    | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 84.99%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 344456   | 54.56    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 109.12%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 192118   | 53.67    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.34%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 162615 | 45.789 | ug/L 100 |
| 3) Chloromethane               | 1.32 | 50  | 195516 | 42.562 | ug/L 98  |
| 5) Vinyl chloride              | 1.40 | 62  | 261649 | 58.841 | ug/L 95  |
| 6) Bromomethane                | 1.61 | 94  | 145507 | 63.159 | ug/L 99  |
| 8) Chloroethane                | 1.69 | 64  | 160891 | 63.437 | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 345117 | 66.608 | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 183923 | 63.530 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 183799 | 65.765 | ug/L 96  |
| 13) Acetone                    | 2.32 | 43  | 265354 | 90.656 | ug/L 99  |
| 14) Carbon disulfide           | 2.47 | 76  | 372978 | 42.960 | ug/L 97  |
| 15) Methyl Acetate             | 2.61 | 43  | 225095 | 49.598 | ug/L 98  |
| 16) Methylene chloride         | 2.69 | 84  | 169312 | 49.869 | ug/L 92  |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 144332 | 48.638 | ug/L 96  |
| 18) Methyl tert-butyl Ether    | 2.99 | 73  | 511807 | 51.489 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 312538 | 51.036 | ug/L 98  |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96  | 168522 | 51.433 | ug/L 93  |
| 22) 2-Butanone                 | 4.25 | 43  | 321707 | 93.741 | ug/L 92  |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.54  | 128  | 89529    | 57.796 | ug/L  | 86       |
| 25) Chloroform                  | 4.67  | 83   | 319637   | 51.932 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.40  | 62   | 250923   | 53.414 | ug/L  | 98       |
| 29) Cyclohexane                 | 4.99  | 56   | 245655   | 36.838 | ug/L  | 92       |
| 30) 1,1,1-Trichloroethane       | 4.91  | 97   | 263900   | 46.283 | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.13  | 117  | 228281   | 46.459 | ug/L  | 100      |
| 33) Benzene                     | 5.38  | 78   | 659790   | 43.093 | ug/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 162018   | 43.145 | ug/L  | 94       |
| 35) Methylcyclohexane           | 6.41  | 83   | 219962   | 37.955 | ug/L  | 96       |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 182120   | 42.008 | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.75  | 83   | 237417   | 45.394 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.26  | 75   | 250772   | 40.639 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.45  | 43   | 590406   | 84.686 | ug/L  | 97       |
| 42) Toluene                     | 7.63  | 91   | 697980   | 44.660 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.87  | 75   | 227764   | 41.883 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.06  | 97   | 172368   | 46.879 | ug/L  | 95       |
| 46) Tetrachloroethene           | 8.22  | 164  | 118491   | 43.401 | ug/L  | 95       |
| 48) 2-Hexanone                  | 8.36  | 43   | 471705   | 86.723 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.47  | 129  | 187976   | 48.180 | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 182475   | 45.863 | ug/L  | 100      |
| 51) Chlorobenzene               | 9.12  | 112  | 528189   | 55.103 | ug/L  | 98       |
| 52) Ethylbenzene                | 9.24  | 91   | 962170   | 56.479 | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.37  | 106  | 343737   | 57.854 | ug/L  | 99       |
| 54) o-xylene                    | 9.77  | 106  | 346867   | 58.692 | ug/L  | 98       |
| 55) Styrene                     | 9.79  | 104  | 608609   | 60.038 | ug/L  | 97       |
| 56) Isopropylbenzene            | 10.16 | 105  | 889701   | 57.179 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.45 | 83   | 365186   | 54.910 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 262564   | 50.567 | ug/L  | 99       |
| 61) Bromoform                   | 9.95  | 173  | 167934   | 69.845 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 298320   | 51.861 | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 297719   | 50.883 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 11.87 | 146  | 325349   | 56.386 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 66086    | 53.877 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 218799   | 52.047 | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 178945   | 50.065 | ug/L  | 99       |
| 69) Naphthalene                 | 13.74 | 128  | 600803   | 51.851 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 200690   | 53.741 | ug/L  | 98       |

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

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