

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092719\  
 Data File : VU034844.D  
 Acq On : 26 Sep 2019 15:41  
 Operator : JC/SP  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

Quant Time: Sep 27 05:03:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR091819WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Sep 18 18:16:37 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 131206   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 124456   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 62839    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 43024    | 4.12     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 82.40% |
| 7) Chloroethane-d5             | 1.67   | 69    | 35165    | 4.15     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 83.00% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 83118    | 4.51     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 90.20% |
| 20) 2-Butanone-d5              | 4.16   | 46    | 125418   | 48.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.74% |
| 24) Chloroform-d               | 4.62   | 84    | 66089    | 4.15     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.00% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 36486    | 4.02     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 80.40% |
| 32) Benzene-d6                 | 5.32   | 84    | 136906   | 4.13     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 82.60% |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 44698    | 4.00     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 80.00% |
| 41) Toluene-d8                 | 7.54   | 98    | 130517   | 4.17     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 83.40% |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 17194    | 3.80     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 76.00% |
| 46) 2-Hexanone-d5              | 8.29   | 63    | 95793    | 47.60    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.20% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 38042    | 4.38     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 87.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 46557    | 4.30     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 86.00% |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 43870  | 4.415 ug/L   | 97     |
| 3) Chloromethane               | 1.32 | 50  | 47415  | 5.061 ug/L   | 97     |
| 5) Vinyl chloride              | 1.40 | 62  | 46342  | 4.722 ug/L   | 100    |
| 6) Bromomethane                | 1.62 | 94  | 24744  | 5.057 ug/L   | 91     |
| 8) Chloroethane                | 1.69 | 64  | 28485  | 4.979 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 65063  | 5.002 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 38371  | 5.250 ug/L # | 86     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 32892  | 5.083 ug/L   | 98     |
| 13) Acetone                    | 2.31 | 43  | 113242 | 57.111 ug/L  | 97     |
| 14) Carbon disulfide           | 2.46 | 76  | 78599  | 4.738 ug/L   | 98     |
| 15) Methyl Acetate             | 2.60 | 43  | 26510  | 5.478 ug/L   | 97     |
| 16) Methylene chloride         | 2.68 | 84  | 41389  | 4.808 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.98 | 73  | 117871 | 5.201 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 35061  | 5.214 ug/L   | 95     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 75762  | 4.615 ug/L   | 98     |
| 21) 2-Butanone                 | 4.25 | 43  | 168745 | 59.116 ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 40043  | 4.452 ug/L   | 100    |

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 ClientSampleId :  
 VSTD00522

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Sep 18 18:16:37 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 17665    | 5.328  | uq/L   | 92       |
| 25) Chloroform                 | 4.65  | 83   | 74321    | 4.048  | uq/L   | 94       |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 49221    | 4.659  | uq/L   | 97       |
| 29) 1,1,1-Trichloroethane      | 4.88  | 97   | 58400    | 4.451  | uq/L   | 99       |
| 30) Cyclohexane                | 4.96  | 56   | 61851    | 4.484  | uq/L   | 99       |
| 31) Carbon tetrachloride       | 5.10  | 117  | 46874    | 4.390  | uq/L   | 95       |
| 33) Benzene                    | 5.36  | 78   | 152263   | 4.525  | uq/L   | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 39198    | 4.673  | uq/L   | 96       |
| 35) Methylcyclohexane          | 6.39  | 83   | 59594    | 4.399  | uq/L   | 99       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 45683    | 4.397  | uq/L # | 98       |
| 38) Bromodichloromethane       | 6.73  | 83   | 54521    | 4.385  | uq/L   | 99       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 66561    | 4.550  | uq/L   | 98       |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 420341   | 53.678 | uq/L   | 97       |
| 42) Toluene                    | 7.61  | 91   | 167293   | 4.600  | uq/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 51946    | 4.377  | uq/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 8.04  | 97   | 30953    | 4.684  | uq/L   | 97       |
| 47) Tetrachloroethene          | 8.21  | 164  | 28179    | 5.541  | uq/L   | 94       |
| 48) 2-Hexanone                 | 8.34  | 43   | 297297   | 56.490 | uq/L   | 95       |
| 49) Dibromochloromethane       | 8.46  | 129  | 36062    | 4.653  | uq/L   | 100      |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 28909    | 4.798  | uq/L   | 100      |
| 51) Chlorobenzene              | 9.10  | 112  | 109068   | 4.785  | uq/L   | 98       |
| 52) Ethylbenzene               | 9.23  | 91   | 193000   | 4.591  | uq/L   | 97       |
| 53) m,p-Xylene                 | 9.35  | 106  | 69897    | 4.688  | uq/L   | 95       |
| 54) o-Xylene                   | 9.76  | 106  | 69782    | 4.659  | uq/L   | 93       |
| 55) Styrene                    | 9.77  | 104  | 119154   | 4.789  | uq/L   | 91       |
| 56) Isopropylbenzene           | 10.14 | 105  | 191530   | 4.603  | uq/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 46243    | 4.740  | uq/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.47 | 75   | 32975    | 4.858  | uq/L   | 99       |
| 61) Bromoform                  | 9.94  | 173  | 20178    | 4.862  | uq/L # | 97       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 88443    | 4.794  | uq/L   | 93       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 88861    | 4.825  | uq/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 11.85 | 146  | 86337    | 4.782  | uq/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 7114     | 4.351  | uq/L # | 78       |
| 67) 1,3,5-Trichlorobenzene     | 12.86 | 180  | 65863    | 5.462  | uq/L   | 96       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 54570    | 5.676  | uq/L   | 98       |
| 69) Naphthalene                | 13.72 | 128  | 113259   | 4.837  | uq/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 51012    | 5.664  | uq/L   | 98       |

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

