

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121219\  
 Data File : VU036188.D  
 Acq On : 13 Dec 2019 08:06  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00512

Quant Time: Dec 13 08:26:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Dec 13 04:38:02 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 264534   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 290968   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 137620   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.62   | 65    | 122413   | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.20% |
| 7) Chloroethane-d5             | 1.93   | 69    | 111813   | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.80% |
| 11) 1,1-Dichloroethene-d2      | 2.60   | 63    | 167828   | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 94.80% |
| 20) 2-Butanone-d5              | 4.68   | 46    | 199915   | 46.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 92.84% |
| 24) Chloroform-d               | 5.11   | 84    | 178082   | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.40% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 90742    | 4.60     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.00% |
| 32) Benzene-d6                 | 5.77   | 84    | 352897   | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.80% |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 104167   | 4.30     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 86.00% |
| 41) Toluene-d8                 | 7.93   | 98    | 330083   | 4.59     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.80% |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 41546    | 4.11     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.20% |
| 46) 2-Hexanone-d5              | 8.67   | 63    | 162339   | 43.65    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 87.30% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 87947    | 4.07     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 81.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 115060   | 4.40     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 88.00% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 120299 | 4.103  | ug/L 100 |
| 3) Chloromethane               | 1.54 | 50  | 140130 | 3.702  | ug/L 99  |
| 5) Vinyl chloride              | 1.62 | 62  | 147848 | 4.185  | ug/L 99  |
| 6) Bromomethane                | 1.87 | 94  | 72261  | 3.327  | ug/L 100 |
| 8) Chloroethane                | 1.95 | 64  | 92793  | 4.267  | ug/L 99  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 204417 | 4.746  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 95978  | 4.496  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 88462  | 4.438  | ug/L 83  |
| 13) Acetone                    | 2.66 | 43  | 156527 | 41.777 | ug/L 97  |
| 14) Carbon disulfide           | 2.83 | 76  | 272682 | 4.116  | ug/L 100 |
| 15) Methyl Acetate             | 2.99 | 43  | 33090  | 4.142  | ug/L 97  |
| 16) Methylene chloride         | 3.08 | 84  | 131183 | 4.706  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 3.41 | 73  | 191250 | 4.614  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 91378  | 4.418  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 177311 | 4.661  | ug/L 98  |
| 21) 2-Butanone                 | 4.76 | 43  | 228854 | 45.818 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96  | 99486  | 4.673  | ug/L 99  |

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 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00512

Quant Time: Dec 13 08:26:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Dec 13 04:38:02 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 50701    | 4.785  | ug/L  | 97       |
| 25) Chloroform                  | 5.14  | 83   | 199255   | 4.955  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 114758   | 4.868  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 160007   | 4.485  | ug/L  | 99       |
| 30) Cyclohexane                 | 5.43  | 56   | 126010   | 4.149  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.57  | 117  | 144500   | 4.526  | ug/L  | 99       |
| 33) Benzene                     | 5.82  | 78   | 404489   | 4.519  | ug/L  | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 117674   | 5.141  | ug/L  | 96       |
| 35) Methylcyclohexane           | 6.80  | 83   | 128675   | 3.944  | ug/L  | 96       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 101429   | 4.393  | ug/L  | 100      |
| 38) Bromodichloromethane        | 7.14  | 83   | 135353   | 4.593  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.65  | 75   | 130641   | 4.281  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.83  | 43   | 526876   | 45.207 | ug/L  | 98       |
| 42) Toluene                     | 8.00  | 91   | 442644   | 4.670  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 109274   | 4.247  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 77657    | 4.560  | ug/L  | 95       |
| 47) Tetrachloroethene           | 8.58  | 164  | 87316    | 4.354  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.72  | 43   | 403441   | 47.189 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.84  | 129  | 93048    | 4.411  | ug/L  | 97       |
| 50) 1,2-Dibromoethane           | 8.96  | 107  | 72576    | 4.547  | ug/L  | 95       |
| 51) Chlorobenzene               | 9.48  | 112  | 279103   | 4.522  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.60  | 91   | 418737   | 4.541  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.72  | 106  | 167542   | 4.626  | ug/L  | 95       |
| 54) o-Xylene                    | 10.13 | 106  | 154733   | 4.472  | ug/L  | 96       |
| 55) Styrene                     | 10.14 | 104  | 287064   | 4.682  | ug/L  | 100      |
| 56) Isopropylbenzene            | 10.51 | 105  | 401209   | 4.538  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 82284    | 3.843  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 70249    | 4.615  | ug/L  | 99       |
| 61) Bromoform                   | 10.32 | 173  | 57100    | 4.357  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 209042   | 4.604  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 206835   | 4.662  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 12.24 | 146  | 203940   | 4.684  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 12665    | 4.556  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 124051   | 4.216  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.86 | 180  | 75678    | 4.910  | ug/L  | 97       |
| 69) Naphthalene                 | 14.11 | 128  | 98844    | 6.232  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 14.35 | 180  | 79621    | 5.544  | ug/L  | 99       |

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

