

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120919\  
 Data File : VU036045.D  
 Acq On : 09 Dec 2019 13:38  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00526

Quant Time: Dec 10 01:40:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Dec 10 01:36:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 320194   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 326913   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 164131   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 123386   | 4.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 129692   | 4.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 240683   | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 92.20%  |
| 20) 2-Butanone-d5              | 4.70   | 46    | 226501   | 46.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.16%  |
| 24) Chloroform-d               | 5.11   | 84    | 206965   | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 102777   | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.80%  |
| 32) Benzene-d6                 | 5.77   | 84    | 420352   | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.60% |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 119849   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.00%  |
| 41) Toluene-d8                 | 7.93   | 98    | 403945   | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.80% |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 53282    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 102.40% |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 201559   | 53.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 107.12% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 102612   | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 150774   | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.60%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 138352   | 4.395  | ug/L  | 96     |
| 3) Chloromethane               | 1.54 | 50   | 126339   | 4.111  | ug/L  | 98     |
| 5) Vinyl chloride              | 1.62 | 62   | 139105   | 4.339  | ug/L  | 100    |
| 6) Bromomethane                | 1.87 | 94   | 107240   | 4.162  | ug/L  | 100    |
| 8) Chloroethane                | 1.95 | 64   | 100954   | 4.139  | ug/L  | 94     |
| 9) Trichlorofluoromethane      | 2.16 | 101  | 252131   | 4.516  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101  | 137295   | 4.432  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.61 | 96   | 129602   | 4.652  | ug/L  | 98     |
| 13) Acetone                    | 2.68 | 43   | 217746   | 35.272 | ug/L  | 98     |
| 14) Carbon disulfide           | 2.82 | 76   | 384780   | 4.822  | ug/L  | 98     |
| 15) Methyl Acetate             | 3.00 | 43   | 34604    | 3.797  | ug/L  | 96     |
| 16) Methylene chloride         | 3.08 | 84   | 122571   | 3.789  | ug/L  | 96     |
| 17) Methyl tert-butyl Ether    | 3.42 | 73   | 224765   | 4.686  | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96   | 107246   | 4.510  | ug/L  | 96     |
| 19) 1,1-Dichloroethane         | 3.92 | 63   | 190150   | 4.456  | ug/L  | 97     |
| 21) 2-Butanone                 | 4.77 | 43   | 258162   | 41.781 | ug/L  | 100    |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96   | 116277   | 4.659  | ug/L  | 99     |

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 Sample : VSTDCCC005  
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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00526

Quant Time: Dec 10 01:40:59 2019  
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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Dec 10 01:36:53 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 55830    | 4.327  | ug/L  | 98       |
| 25) Chloroform                  | 5.13  | 83   | 203952   | 4.288  | ug/L  | 96       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 122402   | 4.356  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 177752   | 4.824  | ug/L  | 98       |
| 30) Cyclohexane                 | 5.43  | 56   | 149124   | 5.155  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.57  | 117  | 163867   | 4.918  | ug/L  | 98       |
| 33) Benzene                     | 5.82  | 78   | 444496   | 4.975  | ug/L  | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 118740   | 5.005  | ug/L  | 96       |
| 35) Methylcyclohexane           | 6.80  | 83   | 170237   | 5.349  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 109144   | 4.870  | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.14  | 83   | 142707   | 4.737  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 161962   | 5.317  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.84  | 43   | 586504   | 50.101 | ug/L  | 100      |
| 42) Toluene                     | 8.00  | 91   | 494936   | 5.165  | ug/L  | 96       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 134464   | 5.106  | ug/L  | 96       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 85142    | 4.825  | ug/L  | 95       |
| 47) Tetrachloroethene           | 8.58  | 164  | 106955   | 4.742  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.73  | 43   | 452563   | 53.890 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.84  | 129  | 109442   | 4.673  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.96  | 107  | 82710    | 4.847  | ug/L  | 97       |
| 51) Chlorobenzene               | 9.47  | 112  | 318717   | 4.772  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.60  | 91   | 493523   | 4.916  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.72  | 106  | 200693   | 5.021  | ug/L  | 98       |
| 54) o-Xylene                    | 10.13 | 106  | 192786   | 5.136  | ug/L  | 95       |
| 55) Styrene                     | 10.14 | 104  | 322577   | 5.011  | ug/L  | 97       |
| 56) Isopropylbenzene            | 10.51 | 105  | 495024   | 4.998  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 101032   | 4.331  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 72419    | 4.520  | ug/L  | 97       |
| 61) Bromoform                   | 10.32 | 173  | 66783    | 4.089  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 262468   | 4.889  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 258167   | 4.881  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.24 | 146  | 247197   | 4.660  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 13349    | 4.006  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 185513   | 5.100  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.86 | 180  | 102506   | 5.307  | ug/L  | 99       |
| 69) Naphthalene                 | 14.11 | 128  | 92486    | 4.975  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 14.35 | 180  | 99041    | 5.348  | ug/L  | 99       |

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

