

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061019\  
 Data File : VV011412.D  
 Acq On : 12 Jun 2019 02:01  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00547

Quant Time: Jun 12 04:43:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Jun 12 04:39:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 126785   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 122588   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 55399    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 53801    | 5.60     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 112.00%  |
| 7) Chloroethane-d5             | 1.55   | 69    | 41800    | 5.23     | ug/L | -0.02    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 104.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 106499   | 5.55     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 111.00%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 140850   | 65.12    | ug/L | -0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 130.24%# |
| 24) Chloroform-d               | 4.40   | 84    | 98247    | 5.81     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 116.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 55589    | 6.08     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 121.60%  |
| 32) Benzene-d6                 | 5.09   | 84    | 189654   | 5.17     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 57420    | 5.08     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 177454   | 5.27     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.40%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 18888    | 4.39     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.80%   |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 110767   | 60.89    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 121.78%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 45949    | 5.96     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 119.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 58848    | 5.38     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 107.60%  |

## Target Compounds

|                                |      |     |        |        | Ovalue  |
|--------------------------------|------|-----|--------|--------|---------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 57418  | 4.592  | ug/L 97 |
| 3) Chloromethane               | 1.25 | 50  | 58030  | 4.800  | ug/L 99 |
| 5) Vinyl chloride              | 1.32 | 62  | 60373  | 5.176  | ug/L 90 |
| 6) Bromomethane                | 1.51 | 94  | 23483  | 3.869  | ug/L 99 |
| 8) Chloroethane                | 1.57 | 64  | 37955  | 5.092  | ug/L 99 |
| 9) Trichlorofluoromethane      | 1.75 | 101 | 79836  | 4.986  | ug/L 97 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 43834  | 5.333  | ug/L 97 |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 40270  | 5.041  | ug/L 96 |
| 13) Acetone                    | 2.19 | 43  | 92625  | 63.873 | ug/L 98 |
| 14) Carbon disulfide           | 2.31 | 76  | 107427 | 4.433  | ug/L 98 |
| 15) Methyl Acetate             | 2.46 | 43  | 23780  | 6.174  | ug/L 98 |
| 16) Methylene chloride         | 2.53 | 84  | 45011  | 5.469  | ug/L 92 |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 119016 | 5.581  | ug/L 98 |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 44032  | 4.923  | ug/L 95 |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 91744  | 5.200  | ug/L 99 |
| 21) 2-Butanone                 | 4.03 | 43  | 141905 | 63.542 | ug/L 94 |
| 22) cis-1,2-Dichloroethene     | 3.95 | 96  | 49294  | 4.977  | ug/L 98 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061019\  
 Data File : VV011412.D  
 Acq On : 12 Jun 2019 02:01  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00547

Quant Time: Jun 12 04:43:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Jun 12 04:39:23 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.29  | 128  | 19012    | 5.007  | ug/L   | 86       |
| 25) Chloroform                  | 4.42  | 83   | 90794    | 4.983  | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 62311    | 5.596  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 72673    | 4.648  | ug/L   | 97       |
| 30) Cyclohexane                 | 4.71  | 56   | 76819    | 4.431  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 59751    | 4.572  | ug/L   | 98       |
| 33) Benzene                     | 5.14  | 78   | 192936   | 4.946  | ug/L   | 100      |
| 34) Trichloroethene             | 5.95  | 95   | 49009    | 4.863  | ug/L   | 93       |
| 35) Methylcyclohexane           | 6.17  | 83   | 73168    | 4.390  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 48606    | 5.007  | ug/L # | 97       |
| 38) Bromodichloromethane        | 6.55  | 83   | 56688    | 4.723  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 61509    | 4.330  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 365214   | 59.072 | ug/L   | 98       |
| 42) Toluene                     | 7.43  | 91   | 206497   | 4.967  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 46717    | 4.326  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 33627    | 5.411  | ug/L   | 98       |
| 47) Tetrachloroethene           | 8.01  | 164  | 34527    | 4.741  | ug/L   | 97       |
| 48) 2-Hexanone                  | 8.18  | 43   | 255809   | 59.327 | ug/L   | 95       |
| 49) Dibromochloromethane        | 8.29  | 129  | 33719    | 4.777  | ug/L   | 98       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 29842    | 5.052  | ug/L # | 96       |
| 51) Chlorobenzene               | 8.92  | 112  | 125642   | 4.956  | ug/L   | 100      |
| 52) Ethylbenzene                | 9.05  | 91   | 226881   | 4.914  | ug/L   | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 82872    | 4.854  | ug/L   | 99       |
| 54) o-xylene                    | 9.59  | 106  | 83419    | 4.978  | ug/L   | 97       |
| 55) Styrene                     | 9.60  | 104  | 137855   | 5.051  | ug/L   | 97       |
| 56) Isopropylbenzene            | 9.97  | 105  | 216887   | 4.809  | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 42371    | 5.624  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 31330    | 5.533  | ug/L   | 98       |
| 61) Bromoform                   | 9.77  | 173  | 15068    | 4.528  | ug/L   | 95       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 90775    | 4.955  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 89082    | 5.009  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 89896    | 5.309  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 5507     | 4.539  | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 63473    | 4.816  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 47423    | 4.740  | ug/L   | 96       |
| 69) Naphthalene                 | 13.55 | 128  | 83352    | 5.089  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 45595    | 5.082  | ug/L   | 98       |

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

