

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV062419\  
 Data File : VV011742.D  
 Acq On : 24 Jun 2019 20:34  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00548

Quant Time: Jun 25 08:23:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 25 08:19:08 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 180549   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 171091   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 80152    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 49533    | 4.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 82.60%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 36561    | 4.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 105050   | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 86.20%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 174203   | 55.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.38% |
| 24) Chloroform-d               | 4.40   | 84    | 112069   | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.60% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 65005    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.00%  |
| 32) Benzene-d6                 | 5.09   | 84    | 223017   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 68449    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.20%  |
| 41) Toluene-d8                 | 7.36   | 98    | 204819   | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.80%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 23856    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.00%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 135331   | 56.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 112.30% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 53218    | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 71684    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.80%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 80337  | 4.278  | ug/L 97  |
| 3) Chloromethane               | 1.25 | 50  | 82270  | 4.828  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 75309  | 4.511  | ug/L 97  |
| 6) Bromomethane                | 1.53 | 94  | 35984  | 4.945  | ug/L 99  |
| 8) Chloroethane                | 1.59 | 64  | 36955  | 4.236  | ug/L 96  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 99133  | 4.589  | ug/L 97  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 54482  | 4.451  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 50466  | 4.517  | ug/L 98  |
| 13) Acetone                    | 2.20 | 43  | 107508 | 47.147 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 124170 | 4.129  | ug/L 99  |
| 15) Methyl Acetate             | 2.46 | 43  | 27873  | 4.909  | ug/L 98  |
| 16) Methylene chloride         | 2.53 | 84  | 54898  | 4.409  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 147091 | 4.813  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 60294  | 4.590  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 121001 | 4.634  | ug/L 98  |
| 21) 2-Butanone                 | 4.03 | 43  | 188402 | 51.282 | ug/L 97  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 65174  | 4.515  | ug/L 99  |

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 Sample : VSTDCCC005EC  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00548

Quant Time: Jun 25 08:23:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 25 08:19:08 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 25472    | 4.683  | ug/L  | 98       |
| 25) Chloroform                  | 4.42  | 83   | 125310   | 4.371  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 82543    | 4.751  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 99526    | 4.518  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 107794   | 4.284  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 80869    | 4.343  | ug/L  | 100      |
| 33) Benzene                     | 5.14  | 78   | 259302   | 4.572  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 65302    | 4.341  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.17  | 83   | 105304   | 4.337  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 64652    | 4.489  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.55  | 83   | 73496    | 4.475  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 86247    | 4.563  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 463819   | 51.345 | ug/L  | 100      |
| 42) Toluene                     | 7.43  | 91   | 273346   | 4.612  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 67457    | 4.819  | ug/L  | 96       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 43712    | 4.782  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.02  | 164  | 49358    | 4.406  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.19  | 43   | 332257   | 52.311 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 45028    | 4.901  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 40804    | 4.889  | ug/L  | 100      |
| 51) Chlorobenzene               | 8.92  | 112  | 166016   | 4.518  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 297408   | 4.547  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 109740   | 4.568  | ug/L  | 100      |
| 54) o-xylene                    | 9.59  | 106  | 108594   | 4.624  | ug/L  | 99       |
| 55) Styrene                     | 9.60  | 104  | 180526   | 4.823  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.97  | 105  | 288394   | 4.583  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 55580    | 5.114  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 40429    | 4.831  | ug/L  | 99       |
| 61) Bromoform                   | 9.77  | 173  | 20528    | 4.560  | ug/L  | 96       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 122942   | 4.547  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 121313   | 4.344  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 119739   | 4.650  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 7626     | 5.171  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 89572    | 4.455  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 73089    | 4.691  | ug/L  | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 135544   | 5.321  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 71413    | 4.931  | ug/L  | 99       |

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

