

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081718\  
 Data File : VV007045.D  
 Acq On : 17 Aug 2018 10:26  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00563

Quant Time: Aug 18 02:47:25 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 17 01:13:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 246988   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 241665   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 108916   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 67565    | 4.24     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 84.80% |
| 7) Chloroethane-d5             | 1.59   | 69    | 58656    | 4.34     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.80% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 132373   | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 88.40% |
| 20) 2-Butanone-d5              | 3.98   | 46    | 187594   | 40.92    | ug/L | 0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 81.84% |
| 24) Chloroform-d               | 4.40   | 84    | 142446   | 4.40     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.00% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 70376    | 4.31     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 86.20% |
| 32) Benzene-d6                 | 5.10   | 84    | 279310   | 4.50     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.00% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 90802    | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 85.60% |
| 41) Toluene-d8                 | 7.36   | 98    | 249103   | 4.72     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.40% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 29926    | 4.05     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 81.00% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 103825   | 34.38    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 68.76% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 66691    | 4.03     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 80.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 82311    | 4.34     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 86.80% |

## Target Compounds

|                                |      |     |        |            | Ovalue |
|--------------------------------|------|-----|--------|------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 106320 | 4.42 ug/L  | 100    |
| 3) Chloromethane               | 1.25 | 50  | 105955 | 4.58 ug/L  | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 105452 | 4.41 ug/L  | 97     |
| 6) Bromomethane                | 1.54 | 94  | 32604  | 6.28 ug/L  | 96     |
| 8) Chloroethane                | 1.60 | 64  | 62625  | 4.31 ug/L  | 98     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 139204 | 4.57 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 87921  | 4.81 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 78415  | 4.42 ug/L  | 97     |
| 13) Acetone                    | 2.22 | 43  | 118840 | 50.34 ug/L | 97     |
| 14) Carbon disulfide           | 2.32 | 76  | 241372 | 4.12 ug/L  | 99     |
| 15) Methyl Acetate             | 2.47 | 43  | 30775  | 4.63 ug/L  | 96     |
| 16) Methylene chloride         | 2.54 | 84  | 84576  | 3.95 ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 2.82 | 73  | 191666 | 4.51 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 86713  | 4.57 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 150177 | 4.38 ug/L  | 98     |
| 21) 2-Butanone                 | 4.06 | 43  | 240522 | 46.92 ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 93748  | 4.35 ug/L  | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081718\  
 Data File : VV007045.D  
 Acq On : 17 Aug 2018 10:26  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00563

Quant Time: Aug 18 02:47:25 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 17 01:13:44 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|-------|------|----------|-------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 41586    | 4.73  | ug/L  | 88       |
| 25) Chloroform                  | 4.43  | 83   | 172610   | 4.60  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 101702   | 4.35  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 143246   | 4.45  | ug/L  | 98       |
| 30) Cyclohexane                 | 4.72  | 56   | 136592   | 4.07  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 124668   | 4.61  | ug/L  | 99       |
| 33) Benzene                     | 5.15  | 78   | 380542   | 4.55  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 90041    | 4.49  | ug/L  | 94       |
| 35) Methylcyclohexane           | 6.18  | 83   | 139439   | 4.33  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 100509   | 4.39  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 117639   | 4.52  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 119449   | 4.31  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.29  | 43   | 535662   | 43.27 | ug/L  | 98       |
| 42) Toluene                     | 7.43  | 91   | 381726   | 4.74  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 102799   | 4.52  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 67466    | 4.53  | ug/L  | 96       |
| 47) Tetrachloroethene           | 8.02  | 164  | 76558    | 4.70  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.20  | 43   | 406428   | 46.55 | ug/L  | 97       |
| 49) Dibromochloromethane        | 8.30  | 129  | 73506    | 4.70  | ug/L  | 97       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 58720    | 4.66  | ug/L  | 96       |
| 51) Chlorobenzene               | 8.93  | 112  | 236123   | 4.60  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.06  | 91   | 364222   | 4.53  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.19  | 106  | 136910   | 4.57  | ug/L  | 96       |
| 54) o-xylene                    | 9.59  | 106  | 127726   | 4.50  | ug/L  | 97       |
| 55) Styrene                     | 9.61  | 104  | 224814   | 4.70  | ug/L  | 97       |
| 56) Isopropylbenzene            | 9.98  | 105  | 346666   | 4.66  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 81633    | 4.51  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 58233    | 4.54  | ug/L  | 100      |
| 61) Bromoform                   | 9.78  | 173  | 40078    | 4.86  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 165775   | 4.70  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 170778   | 4.73  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 165588   | 4.78  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 10059    | 4.09  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 129955   | 4.87  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 88537    | 4.52  | ug/L  | 99       |
| 69) Naphthalene                 | 13.56 | 128  | 112938   | 4.02  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 86416    | 4.58  | ug/L  | 99       |

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

