

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV103119\  
 Data File : VV013458.D  
 Acq On : 31 Oct 2019 20:37  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0ML/MSVOA\_V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00543

Quant Time: Nov 01 05:36:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR103119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Nov 01 05:32:11 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 349134   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 362523   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 232727   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 134753   | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 104.80% |
| 7) Chloroethane-d5             | 1.58   | 69    | 102343   | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 242044   | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 105.20% |
| 20) 2-Butanone-d5              | 3.94   | 46    | 428628   | 53.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.54% |
| 24) Chloroform-d               | 4.40   | 84    | 305561   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 159805   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.60%  |
| 32) Benzene-d6                 | 5.10   | 84    | 601976   | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.40% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 188737   | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 100.40% |
| 41) Toluene-d8                 | 7.36   | 98    | 554010   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.40%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 72724    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.40%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 276465   | 49.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.70%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 140307   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 218302   | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.20%  |

## Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 215667 | 5.177 ug/L  | 100    |
| 3) Chloromethane               | 1.25 | 50  | 190327 | 5.538 ug/L  | 96     |
| 5) Vinyl chloride              | 1.32 | 62  | 194155 | 5.583 ug/L  | 97     |
| 6) Bromomethane                | 1.54 | 94  | 86571  | 5.292 ug/L  | 100    |
| 8) Chloroethane                | 1.60 | 64  | 99693  | 5.232 ug/L  | 96     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 252206 | 5.464 ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 139873 | 5.319 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 134191 | 5.449 ug/L  | 96     |
| 13) Acetone                    | 2.20 | 43  | 220622 | 61.083 ug/L | 98     |
| 14) Carbon disulfide           | 2.32 | 76  | 401588 | 5.258 ug/L  | 100    |
| 15) Methyl Acetate             | 2.46 | 43  | 74090  | 5.777 ug/L  | 99     |
| 16) Methylene chloride         | 2.53 | 84  | 174757 | 4.695 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 382426 | 5.224 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 167958 | 5.143 ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 316279 | 5.315 ug/L  | 100    |
| 21) 2-Butanone                 | 4.02 | 43  | 476092 | 58.343 ug/L | 96     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 180860 | 5.260 ug/L  | 93     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV103119\  
 Data File : VV013458.D  
 Acq On : 31 Oct 2019 20:37  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0ML/MSVOA\_V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00543

Quant Time: Nov 01 05:36:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR103119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Nov 01 05:32:11 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 78810    | 5.132  | ug/L  | 95       |
| 25) Chloroform                 | 4.43  | 83   | 326067   | 4.970  | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 197299   | 5.345  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane      | 4.66  | 97   | 271380   | 5.281  | ug/L  | 100      |
| 30) Cyclohexane                | 4.72  | 56   | 279950   | 5.040  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 240938   | 5.270  | ug/L  | 99       |
| 33) Benzene                    | 5.14  | 78   | 695008   | 5.392  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 181679   | 5.191  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.17  | 83   | 273584   | 5.041  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 175655   | 5.440  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.55  | 83   | 216371   | 5.177  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 236462   | 5.223  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 1138071  | 55.172 | ug/L  | 98       |
| 42) Toluene                    | 7.43  | 91   | 727825   | 5.430  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 182090   | 5.142  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 120805   | 5.265  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 155104   | 5.160  | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.18  | 43   | 817483   | 54.886 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.29  | 129  | 146197   | 5.232  | ug/L  | 96       |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 112116   | 5.184  | ug/L  | 96       |
| 51) Chlorobenzene              | 8.92  | 112  | 458010   | 5.265  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.05  | 91   | 762072   | 5.352  | ug/L  | 99       |
| 53) m,p-xylene                 | 9.18  | 106  | 297459   | 5.458  | ug/L  | 99       |
| 54) o-xylene                   | 9.59  | 106  | 282389   | 5.407  | ug/L  | 99       |
| 55) Styrene                    | 9.60  | 104  | 493068   | 5.547  | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.97  | 105  | 754278   | 5.434  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 135263   | 5.102  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 104487   | 4.998  | ug/L  | 97       |
| 61) Bromoform                  | 9.77  | 173  | 83853    | 4.900  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 387864   | 5.155  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 386183   | 5.058  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 350916   | 5.047  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 20307    | 4.801  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 295553   | 4.878  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 234412   | 4.635  | ug/L  | 100      |
| 69) Naphthalene                | 13.55 | 128  | 337818   | 4.555  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 224361   | 4.815  | ug/L  | 99       |

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

