

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091119\  
 Data File : VV012677.D  
 Acq On : 11 Sep 2019 19:21  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

Quant Time: Sep 12 07:20:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Sep 12 07:16:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 425116   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 417088   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 211659   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 150346   | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 104.20% |
| 7) Chloroethane-d5             | 1.58   | 69    | 123691   | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 103.80% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 258428   | 5.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 111.00% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 353027   | 50.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.74% |
| 24) Chloroform-d               | 4.40   | 84    | 268847   | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.60% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 125267   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.80%  |
| 32) Benzene-d6                 | 5.09   | 84    | 530984   | 5.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.60% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 162773   | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.80% |
| 41) Toluene-d8                 | 7.36   | 98    | 493502   | 5.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.60% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 55207    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 101.40% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 196316   | 47.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.32%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 110093   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 173704   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.00%  |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 174914 | 4.879 ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50  | 175942 | 4.861 ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 184016 | 4.981 ug/L  | 99     |
| 6) Bromomethane                | 1.53 | 94  | 102515 | 5.062 ug/L  | 99     |
| 8) Chloroethane                | 1.60 | 64  | 109813 | 5.027 ug/L  | 98     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 243086 | 5.245 ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 145230 | 5.238 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 133041 | 5.038 ug/L  | 95     |
| 13) Acetone                    | 2.22 | 43  | 218820 | 53.798 ug/L | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 346176 | 4.874 ug/L  | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 56193  | 5.135 ug/L  | 100    |
| 16) Methylene chloride         | 2.53 | 84  | 143313 | 4.440 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 318922 | 5.148 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 147739 | 4.976 ug/L  | 96     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 289924 | 5.187 ug/L  | 99     |
| 21) 2-Butanone                 | 4.04 | 43  | 380405 | 54.537 ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 165385 | 5.128 ug/L  | 94     |

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 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

Quant Time: Sep 12 07:20:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Sep 12 07:16:59 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.29  | 128  | 67241    | 4.878  | ug/L  | 94       |
| 25) Chloroform                  | 4.42  | 83   | 296871   | 4.823  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 167455   | 5.189  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 231382   | 5.040  | ug/L  | 100      |
| 30) Cyclohexane                 | 4.72  | 56   | 234152   | 5.123  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 204037   | 5.046  | ug/L  | 99       |
| 33) Benzene                     | 5.14  | 78   | 636402   | 5.221  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 167504   | 4.973  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.17  | 83   | 247081   | 5.190  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 160098   | 5.273  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.55  | 83   | 194956   | 4.958  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 209658   | 5.263  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 898523   | 53.384 | ug/L  | 99       |
| 42) Toluene                     | 7.43  | 91   | 678014   | 5.354  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 156667   | 5.216  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 107091   | 5.064  | ug/L  | 96       |
| 47) Tetrachloroethene           | 8.02  | 164  | 134995   | 5.105  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.19  | 43   | 677008   | 56.214 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 125217   | 4.978  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 94392    | 5.037  | ug/L  | 98       |
| 51) Chlorobenzene               | 8.92  | 112  | 429930   | 5.164  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 708792   | 5.204  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 273380   | 5.309  | ug/L  | 97       |
| 54) o-xylene                    | 9.59  | 106  | 261687   | 5.307  | ug/L  | 98       |
| 55) Styrene                     | 9.60  | 104  | 448979   | 5.475  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.97  | 105  | 703914   | 5.389  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 104606   | 4.962  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.31 | 75   | 90486    | 5.052  | ug/L  | 98       |
| 61) Bromoform                   | 9.77  | 173  | 67236    | 4.765  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 337472   | 5.147  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 341607   | 5.161  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 315159   | 5.105  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 14758    | 4.587  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 252727   | 5.089  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 195651   | 4.976  | ug/L  | 98       |
| 69) Naphthalene                 | 13.55 | 128  | 290809   | 4.893  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 194232   | 5.239  | ug/L  | 98       |

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

