

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102919\  
 Data File : VV013396.D  
 Acq On : 29 Oct 2019 15:19  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0ML/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00538

Quant Time: Oct 30 01:45:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 30 02:28:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 368866   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 381814   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 236469   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 167615   | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 95.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 135172   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 271261   | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 95.20%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 422551   | 52.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 105.90% |
| 24) Chloroform-d               | 4.40   | 84    | 351108   | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.60% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 179910   | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 104.80% |
| 32) Benzene-d6                 | 5.09   | 84    | 700407   | 5.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.00% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 208152   | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 100.60% |
| 41) Toluene-d8                 | 7.35   | 98    | 681677   | 5.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 111.40% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 80146    | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 105.20% |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 269888   | 54.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 109.60% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 137246   | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 236303   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.60%  |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 224252 | 4.530  | ug/L 99   |
| 3) Chloromethane               | 1.25 | 50  | 212048 | 5.087  | ug/L 99   |
| 5) Vinyl chloride              | 1.32 | 62  | 196691 | 4.863  | ug/L 99   |
| 6) Bromomethane                | 1.54 | 94  | 116394 | 5.349  | ug/L 97   |
| 8) Chloroethane                | 1.60 | 64  | 117318 | 5.077  | ug/L 97   |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 245870 | 4.655  | ug/L 97   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 135897 | 4.606  | ug/L 98   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 135149 | 4.789  | ug/L 95   |
| 13) Acetone                    | 2.23 | 43  | 201040 | 51.558 | ug/L 67   |
| 14) Carbon disulfide           | 2.31 | 76  | 416909 | 4.887  | ug/L 99   |
| 15) Methyl Acetate             | 2.47 | 43  | 77948  | 5.341  | ug/L 98   |
| 16) Methylene chloride         | 2.53 | 84  | 188887 | 4.622  | ug/L 97   |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 404157 | 5.381  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 181821 | 4.839  | ug/L 98   |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 350189 | 5.080  | ug/L 99   |
| 21) 2-Butanone                 | 4.05 | 43  | 487085 | 57.338 | ug/L 99   |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 195986 | 5.173  | ug/L # 97 |

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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00538

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 30 02:28:55 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.29  | 128  | 84808    | 4.978  | ug/L  | 98       |
| 25) Chloroform                 | 4.42  | 83   | 353496   | 4.841  | ug/L  | 96       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 212636   | 5.276  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 4.65  | 97   | 285290   | 5.045  | ug/L  | 99       |
| 30) Cyclohexane                | 4.72  | 56   | 298317   | 5.023  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 249869   | 4.867  | ug/L  | 99       |
| 33) Benzene                    | 5.14  | 78   | 764386   | 5.358  | ug/L  | 100      |
| 34) Trichloroethene            | 5.95  | 95   | 194536   | 4.966  | ug/L  | 95       |
| 35) Methylcyclohexane          | 6.17  | 83   | 290094   | 4.965  | ug/L  | 100      |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 191497   | 5.309  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.55  | 83   | 236124   | 5.217  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 262356   | 5.383  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 1141266  | 56.192 | ug/L  | 99       |
| 42) Toluene                    | 7.43  | 91   | 802272   | 5.393  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 206464   | 5.361  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 123331   | 5.136  | ug/L  | 95       |
| 47) Tetrachloroethene          | 8.01  | 164  | 168827   | 5.087  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.18  | 43   | 837045   | 58.287 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.29  | 129  | 154289   | 5.194  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 115977   | 5.262  | ug/L  | 98       |
| 51) Chlorobenzene              | 8.92  | 112  | 489447   | 5.097  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.05  | 91   | 832502   | 5.278  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.18  | 106  | 325171   | 5.582  | ug/L  | 99       |
| 54) o-xylene                   | 9.58  | 106  | 312620   | 5.547  | ug/L  | 100      |
| 55) Styrene                    | 9.60  | 104  | 532925   | 5.612  | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.97  | 105  | 826631   | 5.449  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 132080   | 5.184  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 111988   | 5.395  | ug/L  | 98       |
| 61) Bromoform                  | 9.77  | 173  | 88757    | 5.126  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 417963   | 5.250  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 412758   | 5.169  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 377570   | 5.121  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 19325    | 4.617  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 320375   | 5.019  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 247232   | 5.002  | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 353963   | 5.231  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 239602   | 5.336  | ug/L  | 99       |

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

