

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122719\  
 Data File : VV014191.D  
 Acq On : 27 Dec 2019 14:42  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00540

Quant Time: Dec 28 00:55:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR122719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Dec 28 00:45:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 831876   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 757340   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 350878   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 173168   | 4.44     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.80% |
| 7) Chloroethane-d5             | 1.58   | 69    | 143486   | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.40% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 324158   | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 92.60% |
| 20) 2-Butanone-d5              | 3.95   | 46    | 437218   | 45.18    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 90.36% |
| 24) Chloroform-d               | 4.40   | 84    | 433965   | 4.44     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.80% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 214058   | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.80% |
| 32) Benzene-d6                 | 5.10   | 84    | 930408   | 4.50     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.00% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 281698   | 4.50     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.00% |
| 41) Toluene-d8                 | 7.36   | 98    | 868355   | 4.49     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.80% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 122920   | 4.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.80% |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 483301   | 45.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 90.96% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25  | 84    | 200489   | 4.49     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 291691   | 4.64     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.80% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 306290 | 4.855  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 272475 | 4.766  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 262721 | 4.840  | ug/L 98  |
| 6) Bromomethane                | 1.53 | 94  | 122998 | 4.893  | ug/L 99  |
| 8) Chloroethane                | 1.60 | 64  | 140991 | 4.874  | ug/L 97  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 340569 | 4.884  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 191658 | 5.092  | ug/L 96  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 178442 | 4.856  | ug/L 94  |
| 13) Acetone                    | 2.21 | 43  | 240487 | 40.287 | ug/L 94  |
| 14) Carbon disulfide           | 2.32 | 76  | 752981 | 4.682  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 106904 | 5.408  | ug/L 91  |
| 16) Methylene chloride         | 2.53 | 84  | 270574 | 4.368  | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 632474 | 4.648  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 271616 | 4.731  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 506401 | 4.757  | ug/L 100 |
| 21) 2-Butanone                 | 4.03 | 43  | 537842 | 48.517 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 298424 | 4.771  | ug/L 99  |

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 ClientSampleId :  
 VSTD00540

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Dec 28 00:45:47 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 112654   | 4.634  | ug/L  | 94       |
| 25) Chloroform                  | 4.42  | 83   | 510782   | 4.733  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 286834   | 4.746  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 454038   | 4.940  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 503700   | 5.011  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 386801   | 4.929  | ug/L  | 99       |
| 33) Benzene                     | 5.14  | 78   | 1127340  | 4.812  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 305541   | 4.869  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.17  | 83   | 522416   | 4.996  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 270238   | 4.749  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.55  | 83   | 367389   | 4.838  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 449567   | 4.828  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 1665858  | 47.064 | ug/L  | 98       |
| 42) Toluene                     | 7.43  | 91   | 1220173  | 4.742  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 350607   | 4.814  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 181811   | 4.685  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.01  | 164  | 211539   | 4.822  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.18  | 43   | 1176371  | 48.059 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 231627   | 4.680  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.39  | 107  | 175590   | 4.707  | ug/L  | 98       |
| 51) Chlorobenzene               | 8.92  | 112  | 758574   | 4.767  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.05  | 91   | 1397267  | 4.891  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 520259   | 4.846  | ug/L  | 96       |
| 54) o-xylene                    | 9.58  | 106  | 499350   | 4.763  | ug/L  | 97       |
| 55) Styrene                     | 9.60  | 104  | 845598   | 4.805  | ug/L  | 98       |
| 56) Isopropylbenzene            | 9.97  | 105  | 1351887  | 4.917  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 222631   | 4.758  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 159469   | 4.585  | ug/L  | 98       |
| 61) Bromoform                   | 9.77  | 173  | 121849   | 4.758  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 574419   | 4.946  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 567158   | 4.885  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.68 | 146  | 511267   | 4.802  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 38805    | 4.426  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 414453   | 4.901  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 369512   | 4.981  | ug/L  | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 665065   | 4.923  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 319275   | 4.931  | ug/L  | 98       |

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

