

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV050119\  
 Data File : VV010574.D  
 Acq On : 30 Apr 2019 15:02  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

Quant Time: May 01 01:17:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Apr 30 06:45:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 176487   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 190116   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 89736    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 52969    | 6.17     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 123.40%  |
| 7) Chloroethane-d5             | 1.56   | 69    | 38883    | 8.46     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 169.20%# |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 107942   | 6.68     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 133.60%# |
| 20) 2-Butanone-d5              | 3.93   | 46    | 123084   | 55.59    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 111.18%  |
| 24) Chloroform-d               | 4.40   | 84    | 107611   | 4.67     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40%   |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 54085    | 5.10     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.00%  |
| 32) Benzene-d6                 | 5.09   | 84    | 212544   | 4.53     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.60%   |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 63998    | 4.78     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.60%   |
| 41) Toluene-d8                 | 7.36   | 98    | 212159   | 4.73     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.60%   |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 23443    | 4.58     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.60%   |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 103505   | 47.96    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.92%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 49876    | 4.70     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.00%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 78409    | 4.53     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.60%   |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 75857  | 5.355  | ug/L 95  |
| 3) Chloromethane               | 1.25 | 50  | 86880  | 9.250  | ug/L 98  |
| 5) Vinyl chloride              | 1.32 | 62  | 83957  | 8.544  | ug/L 100 |
| 6) Bromomethane                | 1.51 | 94  | 33242  | 7.813  | ug/L 96  |
| 8) Chloroethane                | 1.58 | 64  | 42489  | 10.736 | ug/L 91  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 142438 | 7.397  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 73863  | 7.733  | ug/L 91  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 63317  | 7.430  | ug/L 91  |
| 13) Acetone                    | 2.19 | 43  | 84427  | 76.547 | ug/L 97  |
| 14) Carbon disulfide           | 2.31 | 76  | 170350 | 7.919  | ug/L 96  |
| 15) Methyl Acetate             | 2.46 | 43  | 23612  | 6.452  | ug/L 95  |
| 16) Methylene chloride         | 2.53 | 84  | 70584  | 5.477  | ug/L 87  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 138944 | 5.631  | ug/L 97  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 64924  | 5.333  | ug/L 83  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 126221 | 6.288  | ug/L 98  |
| 21) 2-Butanone                 | 4.01 | 43  | 154581 | 67.810 | ug/L 92  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 74136  | 5.641  | ug/L 90  |

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 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

Quant Time: May 01 01:17:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Apr 30 06:45:30 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 4.30  | 128  | 29564    | 4.813  | ug/L # | 84       |
| 25) Chloroform                  | 4.42  | 83   | 140893   | 6.188  | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 77706    | 5.993  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 115323   | 5.180  | ug/L   | 96       |
| 30) Cyclohexane                 | 4.72  | 56   | 105620   | 6.545  | ug/L   | 91       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 107775   | 5.062  | ug/L   | 98       |
| 33) Benzene                     | 5.14  | 78   | 280125   | 5.695  | ug/L   | 100      |
| 34) Trichloroethene             | 5.95  | 95   | 77460    | 5.411  | ug/L   | 92       |
| 35) Methylcyclohexane           | 6.17  | 83   | 110493   | 5.947  | ug/L   | 94       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 68252    | 6.019  | ug/L   | 98       |
| 38) Bromodichloromethane        | 6.55  | 83   | 88412    | 5.431  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 96856    | 5.916  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 401440   | 66.752 | ug/L # | 93       |
| 42) Toluene                     | 7.43  | 91   | 332667   | 6.162  | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 74659    | 5.800  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 49885    | 5.189  | ug/L   | 94       |
| 47) Tetrachloroethene           | 8.02  | 164  | 61623    | 4.608  | ug/L   | 93       |
| 48) 2-Hexanone                  | 8.18  | 43   | 297418   | 70.881 | ug/L # | 95       |
| 49) Dibromochloromethane        | 8.29  | 129  | 58200    | 4.923  | ug/L   | 87       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 46280    | 5.212  | ug/L # | 97       |
| 51) Chlorobenzene               | 8.92  | 112  | 210426   | 5.552  | ug/L   | 97       |
| 52) Ethylbenzene                | 9.05  | 91   | 365734   | 6.429  | ug/L   | 95       |
| 53) m,p-xylene                  | 9.18  | 106  | 140510   | 6.288  | ug/L   | 99       |
| 54) o-xylene                    | 9.59  | 106  | 138368   | 6.333  | ug/L   | 100      |
| 55) Styrene                     | 9.60  | 104  | 233306   | 6.456  | ug/L   | 99       |
| 56) Isopropylbenzene            | 9.97  | 105  | 362746   | 6.334  | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 57372    | 5.471  | ug/L # | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 42337    | 5.830  | ug/L   | 100      |
| 61) Bromoform                   | 9.77  | 173  | 30833    | 5.287  | ug/L # | 92       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 160211   | 5.788  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 162414   | 5.722  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 152187   | 5.583  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 9284     | 6.165  | ug/L   | 84       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 124298   | 5.355  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 92960    | 5.248  | ug/L   | 97       |
| 69) Naphthalene                 | 13.55 | 128  | 135973   | 5.161  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 85213    | 4.836  | ug/L   | 98       |
| -----                           |       |      |          |        |        |          |

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

