

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062519\  
 Data File : VV011744.D  
 Acq On : 25 Jun 2019 09:48  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00549

Quant Time: Jun 26 01:37:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 25 08:19:08 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 211649   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 197130   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 94844    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 54332    | 3.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 77.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 40210    | 4.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 81.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 119546   | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 83.80%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 190537   | 51.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 102.98% |
| 24) Chloroform-d               | 4.40   | 84    | 123851   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 70116    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.00%  |
| 32) Benzene-d6                 | 5.09   | 84    | 245415   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 77735    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.80%  |
| 41) Toluene-d8                 | 7.36   | 98    | 222794   | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.60%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 28400    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.00%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 150549   | 54.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 108.42% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 58769    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 79641    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 89.00%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 102001 | 4.633  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 98139  | 4.913  | ug/L 98  |
| 5) Vinyl chloride              | 1.32 | 62  | 93372  | 4.771  | ug/L 94  |
| 6) Bromomethane                | 1.53 | 94  | 35384  | 4.148  | ug/L 99  |
| 8) Chloroethane                | 1.59 | 64  | 45334  | 4.432  | ug/L 96  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 125282 | 4.948  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 71673  | 4.995  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 63302  | 4.833  | ug/L 93  |
| 13) Acetone                    | 2.21 | 43  | 134153 | 50.188 | ug/L 100 |
| 14) Carbon disulfide           | 2.31 | 76  | 159594 | 4.527  | ug/L 99  |
| 15) Methyl Acetate             | 2.46 | 43  | 32869  | 4.938  | ug/L 98  |
| 16) Methylene chloride         | 2.53 | 84  | 68261  | 4.677  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 182118 | 5.083  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 76707  | 4.981  | ug/L 93  |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 152866 | 4.994  | ug/L 97  |
| 21) 2-Butanone                 | 4.04 | 43  | 230598 | 53.545 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 82319  | 4.864  | ug/L 100 |

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

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00549

Quant Time: Jun 26 01:37:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 25 08:19:08 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 31802    | 4.987  | ug/L   | 97       |
| 25) Chloroform                  | 4.42  | 83   | 155282   | 4.620  | ug/L   | 97       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 101522   | 4.985  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 127660   | 5.030  | ug/L   | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 137720   | 4.750  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 106947   | 4.985  | ug/L   | 98       |
| 33) Benzene                     | 5.14  | 78   | 325324   | 4.978  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 83044    | 4.792  | ug/L   | 96       |
| 35) Methylcyclohexane           | 6.17  | 83   | 140128   | 5.008  | ug/L   | 96       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 83993    | 5.062  | ug/L   | 100      |
| 38) Bromodichloromethane        | 6.55  | 83   | 95350    | 5.039  | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 113884   | 5.230  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 572171   | 54.973 | ug/L   | 99       |
| 42) Toluene                     | 7.43  | 91   | 339757   | 4.975  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 88514    | 5.488  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 52970    | 5.029  | ug/L   | 95       |
| 47) Tetrachloroethene           | 8.02  | 164  | 64532    | 5.000  | ug/L   | 95       |
| 48) 2-Hexanone                  | 8.19  | 43   | 416732   | 56.944 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 56918    | 5.377  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 49613    | 5.159  | ug/L # | 96       |
| 51) Chlorobenzene               | 8.92  | 112  | 209100   | 4.938  | ug/L   | 100      |
| 52) Ethylbenzene                | 9.05  | 91   | 375159   | 4.978  | ug/L   | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 140022   | 5.059  | ug/L   | 99       |
| 54) o-xylene                    | 9.59  | 106  | 137898   | 5.096  | ug/L   | 96       |
| 55) Styrene                     | 9.60  | 104  | 230432   | 5.343  | ug/L   | 98       |
| 56) Isopropylbenzene            | 9.97  | 105  | 363698   | 5.016  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 66929    | 5.344  | ug/L   | 95       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 49680    | 5.152  | ug/L   | 100      |
| 61) Bromoform                   | 9.77  | 173  | 27719    | 5.204  | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 155596   | 4.863  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 157102   | 4.754  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 149944   | 4.921  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 9172     | 5.255  | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 117732   | 4.949  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 98255    | 5.329  | ug/L   | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 174993   | 5.806  | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 91273    | 5.326  | ug/L   | 97       |

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

