

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV083018\  
 Data File : VV007271.D  
 Acq On : 30 Aug 2018 18:58  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00570

Quant Time: Aug 31 02:24:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR083018WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 31 02:21:46 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 306954   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 300458   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 142017   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 131105   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 102281   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 218663   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.40%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 261765   | 49.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.92%  |
| 24) Chloroform-d               | 4.41   | 84    | 233154   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 106751   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.60%  |
| 32) Benzene-d6                 | 5.10   | 84    | 475876   | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.00% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 145029   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.20%  |
| 41) Toluene-d8                 | 7.36   | 98    | 436199   | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 104.20% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 51288    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 99.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 179470   | 51.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.20% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 103871   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 140940   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.40%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Ovalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 150812   | 5.61  | ug/L  | # 89   |
| 3) Chloromethane               | 1.25 | 50   | 153975   | 5.18  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 147613   | 5.11  | ug/L  | 99     |
| 6) Bromomethane                | 1.54 | 94   | 75111    | 5.24  | ug/L  | 100    |
| 8) Chloroethane                | 1.60 | 64   | 85279    | 5.14  | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 189231   | 5.18  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 115221   | 5.25  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 108640   | 5.13  | ug/L  | 98     |
| 13) Acetone                    | 2.22 | 43   | 145803   | 50.50 | ug/L  | 100    |
| 14) Carbon disulfide           | 2.32 | 76   | 356561   | 5.09  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.47 | 43   | 37291    | 5.17  | ug/L  | 97     |
| 16) Methylene chloride         | 2.54 | 84   | 134267   | 5.37  | ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 2.82 | 73   | 246625   | 5.18  | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96   | 119743   | 5.10  | ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 216826   | 5.11  | ug/L  | 100    |
| 21) 2-Butanone                 | 4.06 | 43   | 278657   | 53.68 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96   | 129778   | 5.14  | ug/L  | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV083018\  
 Data File : VV007271.D  
 Acq On : 30 Aug 2018 18:58  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00570

Quant Time: Aug 31 02:24:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR083018WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 31 02:21:46 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|-------|------|----------|-------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 56120    | 5.12  | ug/L  | 96       |
| 25) Chloroform                  | 4.43  | 83   | 228877   | 5.18  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 130649   | 5.21  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 193040   | 5.19  | ug/L  | 100      |
| 30) Cyclohexane                 | 4.73  | 56   | 190063   | 5.24  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 4.88  | 117  | 169474   | 5.25  | ug/L  | 99       |
| 33) Benzene                     | 5.15  | 78   | 526471   | 5.41  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 126815   | 5.30  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.18  | 83   | 200865   | 5.28  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 132872   | 5.28  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 154162   | 5.24  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 166284   | 5.25  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.29  | 43   | 640214   | 56.05 | ug/L  | 100      |
| 42) Toluene                     | 7.44  | 91   | 540859   | 5.56  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 140678   | 5.42  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 87463    | 5.29  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.02  | 164  | 108671   | 5.26  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.20  | 43   | 477753   | 58.60 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.30  | 129  | 99591    | 5.24  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 77266    | 5.28  | ug/L  | 98       |
| 51) Chlorobenzene               | 8.93  | 112  | 335900   | 5.29  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.06  | 91   | 526210   | 5.37  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.19  | 106  | 206039   | 5.44  | ug/L  | 97       |
| 54) o-xylene                    | 9.59  | 106  | 190824   | 5.41  | ug/L  | 100      |
| 55) Styrene                     | 9.61  | 104  | 350392   | 5.71  | ug/L  | 98       |
| 56) Isopropylbenzene            | 9.98  | 105  | 504537   | 5.53  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 102805   | 5.24  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 71810    | 5.24  | ug/L  | 100      |
| 61) Bromoform                   | 9.78  | 173  | 53665    | 5.10  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 237897   | 5.36  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 251416   | 5.41  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 237249   | 5.44  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 14316    | 5.24  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 186970   | 5.22  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 143568   | 5.11  | ug/L  | 99       |
| 69) Naphthalene                 | 13.56 | 128  | 197117   | 5.01  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 137783   | 5.21  | ug/L  | 100      |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV083018\  
Data File : VV007271.D  
Acq On : 30 Aug 2018 18:58  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25.0 mL/MSVOA V/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00570

Quant Time: Aug 31 02:24:19 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR083018WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Aug 31 02:21:46 2018  
Response via : Initial Calibration

