

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092118\  
 Data File : VV007702.D  
 Acq On : 21 Sep 2018 16:51  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00576

Quant Time: Sep 21 17:12:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR091918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Sep 21 03:27:29 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 97481    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 92225    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 52660    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 15352    | 3.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 76.60%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 16585    | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 46503    | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 87.40%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 55178    | 53.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.98% |
| 24) Chloroform-d               | 4.41   | 84    | 46783    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 23500    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.60%  |
| 32) Benzene-d6                 | 5.10   | 84    | 80197    | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 25101    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.00%  |
| 41) Toluene-d8                 | 7.36   | 98    | 80826    | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.80%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 9779     | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.20%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 40199    | 47.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.12%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 22722    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 39729    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.40%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 40546    | 5.171  | ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50   | 30876    | 5.076  | ug/L  | 98     |
| 5) Vinyl chloride              | 1.32 | 62   | 35932    | 5.072  | ug/L  | 99     |
| 6) Bromomethane                | 1.54 | 94   | 23544    | 4.949  | ug/L  | 100    |
| 8) Chloroethane                | 1.60 | 64   | 24539    | 5.322  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 78137    | 5.274  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 43106    | 5.348  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.15 | 96   | 38013    | 5.351  | ug/L  | 93     |
| 13) Acetone                    | 2.22 | 43   | 48694    | 49.457 | ug/L  | 98     |
| 14) Carbon disulfide           | 2.32 | 76   | 89907    | 4.749  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.47 | 43   | 12261    | 5.051  | ug/L  | 98     |
| 16) Methylene chloride         | 2.54 | 84   | 38729    | 5.371  | ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73   | 86713    | 5.217  | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96   | 40801    | 5.229  | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 52556    | 4.965  | ug/L  | 98     |
| 21) 2-Butanone                 | 4.05 | 43   | 63000    | 50.728 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96   | 36291    | 5.265  | ug/L  | 100    |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.31  | 128  | 16895    | 5.386  | ug/L  | 97       |
| 25) Chloroform                  | 4.43  | 83   | 61556    | 5.446  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 36427    | 5.332  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 56043    | 5.118  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.73  | 56   | 45960    | 4.919  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 4.88  | 117  | 52213    | 5.212  | ug/L  | 99       |
| 33) Benzene                     | 5.15  | 78   | 127000   | 5.186  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 36197    | 5.024  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.18  | 83   | 56373    | 5.068  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 30123    | 5.093  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.56  | 83   | 38280    | 4.905  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 42806    | 5.002  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 161190   | 50.375 | ug/L  | 99       |
| 42) Toluene                     | 7.44  | 91   | 146097   | 5.238  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 33997    | 4.895  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 24227    | 5.322  | ug/L  | 94       |
| 47) Tetrachloroethene           | 8.02  | 164  | 37704    | 5.325  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.19  | 43   | 115476   | 50.956 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.30  | 129  | 28507    | 5.031  | ug/L  | 97       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 22992    | 5.327  | ug/L  | 98       |
| 51) Chlorobenzene               | 8.93  | 112  | 101334   | 5.238  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.06  | 91   | 165088   | 5.235  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.19  | 106  | 64589    | 5.211  | ug/L  | 97       |
| 54) o-xylene                    | 9.59  | 106  | 63885    | 5.237  | ug/L  | 99       |
| 55) Styrene                     | 9.61  | 104  | 103294   | 5.181  | ug/L  | 98       |
| 56) Isopropylbenzene            | 9.98  | 105  | 172163   | 5.187  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 26795    | 5.157  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 19078    | 5.263  | ug/L  | 98       |
| 61) Bromoform                   | 9.78  | 173  | 15290    | 4.502  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 90385    | 5.170  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 91301    | 5.194  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 84335    | 5.128  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 3572     | 4.775  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 77043    | 5.086  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 61111    | 4.947  | ug/L  | 99       |
| 69) Naphthalene                 | 13.56 | 128  | 78871    | 4.274  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 55891    | 4.914  | ug/L  | 96       |

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

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