

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080718\  
 Data File : VV006906.D  
 Acq On : 07 Aug 2018 19:02  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00571

Quant Time: Aug 08 07:01:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 08 06:58:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 195002   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 180834   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 78924    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 60068    | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 102.80% |
| 7) Chloroethane-d5             | 1.58   | 69    | 55145    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 121438   | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 101.00% |
| 20) 2-Butanone-d5              | 3.97   | 46    | 191699   | 51.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 102.76% |
| 24) Chloroform-d               | 4.41   | 84    | 126898   | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.40% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 66811    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.20% |
| 32) Benzene-d6                 | 5.10   | 84    | 235037   | 5.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.20% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 83839    | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 104.20% |
| 41) Toluene-d8                 | 7.36   | 98    | 211131   | 5.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.20% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 29146    | 5.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 112.20% |
| 46) 2-Hexanone-d5              | 8.15   | 63    | 111108   | 51.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.90% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 63323    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 66258    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 103.80% |

## Target Compounds

|                                |      |     |        |       |      | Ovalue |
|--------------------------------|------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 81154  | 5.13  | ug/L | 99     |
| 3) Chloromethane               | 1.25 | 50  | 97832  | 4.67  | ug/L | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 94131  | 5.14  | ug/L | 99     |
| 6) Bromomethane                | 1.54 | 94  | 23554  | 5.38  | ug/L | 99     |
| 8) Chloroethane                | 1.60 | 64  | 58373  | 5.05  | ug/L | 96     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 113528 | 5.08  | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 67830  | 5.03  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 64946  | 5.03  | ug/L | 87     |
| 13) Acetone                    | 2.21 | 43  | 119081 | 48.90 | ug/L | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 204802 | 5.17  | ug/L | 99     |
| 15) Methyl Acetate             | 2.47 | 43  | 32523  | 4.86  | ug/L | 96     |
| 16) Methylene chloride         | 2.54 | 84  | 75609  | 4.51  | ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 2.82 | 73  | 170895 | 5.10  | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 68997  | 4.93  | ug/L | 94     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 140692 | 5.20  | ug/L | 100    |
| 21) 2-Butanone                 | 4.06 | 43  | 207249 | 51.72 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 71416  | 5.10  | ug/L | 99     |

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 Misc : 25 mL/MSVOA V/WATER  
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 ClientSampleId :  
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| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane          | 4.31  | 128  | 31002    | 5.38  | ug/L   | 99       |
| 25) Chloroform                  | 4.43  | 83   | 134771   | 5.13  | ug/L   | 93       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 84040    | 4.96  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 111442   | 5.20  | ug/L   | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 112625   | 5.27  | ug/L   | 100      |
| 31) Carbon tetrachloride        | 4.88  | 117  | 91548    | 5.07  | ug/L   | 97       |
| 33) Benzene                     | 5.15  | 78   | 291952   | 5.23  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 69272    | 5.34  | ug/L   | 97       |
| 35) Methylcyclohexane           | 6.18  | 83   | 104517   | 5.19  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 81195    | 5.24  | ug/L   | 99       |
| 38) Bromodichloromethane        | 6.56  | 83   | 91013    | 5.17  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 97043    | 5.48  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.29  | 43   | 455481   | 52.62 | ug/L   | 99       |
| 42) Toluene                     | 7.44  | 91   | 286407   | 5.48  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 77860    | 5.23  | ug/L   | 95       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 50651    | 5.21  | ug/L   | 98       |
| 47) Tetrachloroethene           | 8.02  | 164  | 52452    | 5.31  | ug/L   | 97       |
| 48) 2-Hexanone                  | 8.20  | 43   | 339265   | 56.06 | ug/L   | 100      |
| 49) Dibromochloromethane        | 8.30  | 129  | 54828    | 5.33  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 42983    | 5.28  | ug/L   | 97       |
| 51) Chlorobenzene               | 8.93  | 112  | 172473   | 5.42  | ug/L   | 96       |
| 52) Ethylbenzene                | 9.06  | 91   | 273031   | 5.29  | ug/L   | 99       |
| 53) m,p-xylene                  | 9.19  | 106  | 99342    | 5.35  | ug/L   | 97       |
| 54) o-xylene                    | 9.59  | 106  | 96169    | 5.29  | ug/L   | 97       |
| 55) Styrene                     | 9.61  | 104  | 158811   | 5.38  | ug/L   | 100      |
| 56) Isopropylbenzene            | 9.98  | 105  | 255453   | 5.40  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 64759    | 5.14  | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane      | 10.33 | 75   | 45386    | 5.13  | ug/L   | 98       |
| 61) Bromoform                   | 9.78  | 173  | 27720    | 4.90  | ug/L # | 94       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 118442   | 5.39  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 118038   | 5.44  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 116764   | 5.34  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 9160     | 4.80  | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 92245    | 5.59  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 65894    | 5.66  | ug/L   | 95       |
| 69) Naphthalene                 | 13.56 | 128  | 99668    | 5.46  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 65204    | 5.65  | ug/L   | 98       |

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

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