

Data File : VV007594.D  
Acq On : 17 Sep 2018 18:35  
Operator : SY/MD  
Sample : VSTDCCC005EC  
Misc : 25.0 mL/MSVOA\_V/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00566

Quant Time: Sep 18 03:42:21 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR091318WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Sep 18 03:38:22 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 120937   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 109520   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 61974    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 22415    | 3.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 71.00% |
| 7) Chloroethane-d5             | 1.58   | 69    | 22675    | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 85.60% |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 56748    | 4.32     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 86.40% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 41787    | 47.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 94.84% |
| 24) Chloroform-d               | 4.41   | 84    | 58085    | 4.48     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.60% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 29011    | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.40% |
| 32) Benzene-d6                 | 5.10   | 84    | 110395   | 4.44     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.80% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 32488    | 4.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 87.80% |
| 41) Toluene-d8                 | 7.36   | 98    | 115006   | 4.45     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.00% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 14023    | 4.09     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 81.80% |
| 46) 2-Hexanone-d5              | 8.15   | 63    | 22993    | 42.03    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 84.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 22884    | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 88.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 51623    | 4.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.00% |

#### Target Compounds

|                                |      |     |       |        | Qvalue  |
|--------------------------------|------|-----|-------|--------|---------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 31183 | 4.763  | ug/L 98 |
| 3) Chloromethane               | 1.25 | 50  | 25751 | 4.526  | ug/L 96 |
| 5) Vinyl chloride              | 1.32 | 62  | 30505 | 4.802  | ug/L 97 |
| 6) Bromomethane                | 1.54 | 94  | 22266 | 4.911  | ug/L 96 |
| 8) Chloroethane                | 1.60 | 64  | 19542 | 5.047  | ug/L 98 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 63006 | 5.028  | ug/L 99 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 35672 | 5.217  | ug/L 98 |
| 12) 1,1-Dichloroethene         | 2.15 | 96  | 31440 | 5.122  | ug/L 87 |
| 13) Acetone                    | 2.21 | 43  | 27642 | 48.033 | ug/L 97 |
| 14) Carbon disulfide           | 2.32 | 76  | 84941 | 4.730  | ug/L 99 |
| 15) Methyl Acetate             | 2.47 | 43  | 7661  | 4.857  | ug/L 98 |
| 16) Methylene chloride         | 2.54 | 84  | 32122 | 4.842  | ug/L 99 |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 72312 | 4.897  | ug/L 98 |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 33927 | 5.081  | ug/L 99 |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 47335 | 4.862  | ug/L 99 |
| 21) 2-Butanone                 | 4.05 | 43  | 43639 | 45.204 | ug/L 94 |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 32201 | 4.892  | ug/L 90 |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 14203    | 4.923  | ug/L   | 93       |
| 25) Chloroform                 | 4.43  | 83   | 54781    | 4.924  | ug/L   | 97       |
| 27) 1,2-Dichloroethane         | 5.19  | 62   | 31138    | 4.861  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane      | 4.66  | 97   | 50870    | 4.776  | ug/L   | 99       |
| 30) Cyclohexane                | 4.72  | 56   | 42824    | 4.611  | ug/L   | 99       |
| 31) Carbon tetrachloride       | 4.88  | 117  | 47398    | 4.742  | ug/L   | 99       |
| 33) Benzene                    | 5.15  | 78   | 110723   | 4.896  | ug/L   | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 36722    | 5.294  | ug/L   | 98       |
| 35) Methylcyclohexane          | 6.18  | 83   | 52569    | 4.908  | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 6.23  | 63   | 26545    | 4.763  | ug/L   | 100      |
| 38) Bromodichloromethane       | 6.56  | 83   | 36712    | 4.542  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 41507    | 4.684  | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone       | 7.29  | 43   | 145400   | 47.255 | ug/L   | 99       |
| 42) Toluene                    | 7.43  | 91   | 127735   | 4.889  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 32382    | 4.443  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 20774    | 4.992  | ug/L   | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 31737    | 5.096  | ug/L   | 99       |
| 48) 2-Hexanone                 | 8.20  | 43   | 113894   | 48.756 | ug/L   | 95       |
| 49) Dibromochloromethane       | 8.30  | 129  | 27060    | 4.568  | ug/L   | 98       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 20124    | 4.980  | ug/L # | 98       |
| 51) Chlorobenzene              | 8.93  | 112  | 89011    | 5.066  | ug/L   | 97       |
| 52) Ethylbenzene               | 9.06  | 91   | 145668   | 4.950  | ug/L   | 99       |
| 53) m,p-xylene                 | 9.18  | 106  | 57513    | 5.044  | ug/L   | 99       |
| 54) o-xylene                   | 9.59  | 106  | 55547    | 4.975  | ug/L   | 99       |
| 55) Styrene                    | 9.61  | 104  | 91153    | 5.011  | ug/L   | 100      |
| 56) Isopropylbenzene           | 9.98  | 105  | 150883   | 4.977  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 18113    | 4.443  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 16783    | 4.925  | ug/L   | 100      |
| 61) Bromoform                  | 9.78  | 173  | 15554    | 4.228  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 78805    | 5.033  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 77400    | 4.944  | ug/L   | 100      |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 72397    | 4.968  | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 3141     | 4.190  | ug/L   | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 64625    | 5.288  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 47394    | 5.386  | ug/L   | 99       |
| 69) Naphthalene                | 13.56 | 128  | 53330    | 5.006  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 42429    | 5.288  | ug/L   | 98       |

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

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