

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041020\  
 Data File : VV015455.D  
 Acq On : 10 Apr 2020 16:15  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00543

Quant Time: Apr 11 04:51:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Apr 11 04:49:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 116968   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 111827   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 58166    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 39528    | 6.51     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 130.20%# |
| 7) Chloroethane-d5             | 1.58   | 69    | 32375    | 5.79     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 115.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 72935    | 5.71     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 114.20%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 93058    | 54.61    | ug/L | 0.03     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.22%  |
| 24) Chloroform-d               | 4.38   | 84    | 68521    | 5.10     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 38095    | 5.26     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.20%  |
| 32) Benzene-d6                 | 5.08   | 84    | 136988   | 5.52     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 41405    | 5.36     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 107.20%  |
| 41) Toluene-d8                 | 7.34   | 98    | 132365   | 5.59     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 111.80%  |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 17845    | 5.31     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 106.20%  |
| 46) 2-Hexanone-d5              | 8.12   | 63    | 76952    | 47.48    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.96%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 30343    | 4.95     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.00%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 46338    | 4.96     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.20%   |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 58104  | 5.019  | ug/L 99   |
| 3) Chloromethane               | 1.25 | 50  | 54173  | 4.914  | ug/L 98   |
| 5) Vinyl chloride              | 1.32 | 62  | 53382  | 5.028  | ug/L 99   |
| 6) Bromomethane                | 1.53 | 94  | 30662  | 5.226  | ug/L 98   |
| 8) Chloroethane                | 1.59 | 64  | 31302  | 5.084  | ug/L 100  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 70421  | 5.185  | ug/L 99   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 38528  | 5.022  | ug/L 98   |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 37086  | 5.051  | ug/L 96   |
| 13) Acetone                    | 2.25 | 43  | 66781  | 55.468 | ug/L 94   |
| 14) Carbon disulfide           | 2.30 | 76  | 118971 | 4.648  | ug/L 99   |
| 15) Methyl Acetate             | 2.47 | 43  | 17711  | 4.972  | ug/L 97   |
| 16) Methylene chloride         | 2.52 | 84  | 43230  | 5.026  | ug/L 98   |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 104074 | 5.303  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 41915  | 5.066  | ug/L 98   |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 81423  | 5.220  | ug/L 98   |
| 21) 2-Butanone                 | 4.04 | 43  | 113769 | 58.476 | ug/L # 71 |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 45070  | 5.246  | ug/L 96   |

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 Quant Title : TRACE VOA SOM01.0  
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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 18174    | 5.085  | ug/L   | 98       |
| 25) Chloroform                  | 4.40  | 83   | 86319    | 5.408  | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 5.16  | 62   | 53609    | 5.195  | ug/L # | 95       |
| 29) 1,1,1-Trichloroethane       | 4.63  | 97   | 76117    | 5.246  | ug/L   | 98       |
| 30) Cyclohexane                 | 4.70  | 56   | 76872    | 4.990  | ug/L   | 98       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 64135    | 5.079  | ug/L   | 100      |
| 33) Benzene                     | 5.13  | 78   | 174304   | 5.208  | ug/L   | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 46006    | 5.107  | ug/L   | 97       |
| 35) Methylcyclohexane           | 6.15  | 83   | 75360    | 4.965  | ug/L   | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 43069    | 5.188  | ug/L   | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 57615    | 5.205  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 65826    | 5.167  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 282721   | 51.867 | ug/L   | 98       |
| 42) Toluene                     | 7.41  | 91   | 189996   | 5.229  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 55925    | 5.192  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 28820    | 5.165  | ug/L   | 94       |
| 47) Tetrachloroethene           | 8.00  | 164  | 34320    | 5.142  | ug/L   | 99       |
| 48) 2-Hexanone                  | 8.16  | 43   | 198424   | 52.099 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 34950    | 5.229  | ug/L   | 97       |
| 50) 1,2-Dibromoethane           | 8.38  | 107  | 27905    | 5.218  | ug/L   | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 120543   | 5.204  | ug/L   | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 220217   | 5.264  | ug/L   | 99       |
| 53) m,p-xylene                  | 9.16  | 106  | 82082    | 5.196  | ug/L   | 99       |
| 54) o-xylene                    | 9.57  | 106  | 79915    | 5.226  | ug/L   | 99       |
| 55) Styrene                     | 9.58  | 104  | 135493   | 5.272  | ug/L   | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 218903   | 5.222  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 36224    | 5.334  | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 26864    | 5.234  | ug/L   | 98       |
| 61) Bromoform                   | 9.75  | 173  | 16630    | 4.875  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 96889    | 5.166  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 97357    | 5.102  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 86965    | 5.087  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 6434     | 4.918  | ug/L   | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 69553    | 5.133  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 61740    | 5.058  | ug/L   | 98       |
| 69) Naphthalene                 | 13.53 | 128  | 107792   | 4.687  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 53521    | 4.964  | ug/L   | 99       |

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

