

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030419\  
 Data File : VV009480.D  
 Acq On : 04 Mar 2019 19:26  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00571

Quant Time: Mar 05 04:13:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR030419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Mar 05 04:03:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 85129    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 82739    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 40995    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 30624    | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 105.80% |
| 7) Chloroethane-d5             | 1.58   | 69    | 29949    | 5.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 117.40% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 74421    | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 104.40% |
| 20) 2-Butanone-d5              | 3.97   | 46    | 56609    | 55.81    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 111.62% |
| 24) Chloroform-d               | 4.40   | 84    | 53983    | 5.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.60% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 27363    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 109.60% |
| 32) Benzene-d6                 | 5.10   | 84    | 109600   | 5.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 109.00% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 33482    | 5.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 111.80% |
| 41) Toluene-d8                 | 7.36   | 98    | 110546   | 5.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 109.40% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 12978    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.80% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 46648    | 54.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 108.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 24890    | 5.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 108.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 38712    | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.20% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 25260    | 4.742  | ug/L   | 95     |
| 3) Chloromethane               | 1.25 | 50   | 31453    | 5.307  | ug/L   | 96     |
| 5) Vinyl chloride              | 1.32 | 62   | 33980    | 5.189  | ug/L   | 98     |
| 6) Bromomethane                | 1.54 | 94   | 22256    | 5.287  | ug/L   | 100    |
| 8) Chloroethane                | 1.60 | 64   | 26581    | 6.036  | ug/L   | 96     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 69766    | 4.913  | ug/L   | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 35840    | 5.012  | ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 31026    | 5.006  | ug/L   | 85     |
| 13) Acetone                    | 2.21 | 43   | 45592    | 51.338 | ug/L # | 49     |
| 14) Carbon disulfide           | 2.32 | 76   | 102111   | 5.054  | ug/L   | 98     |
| 15) Methyl Acetate             | 2.47 | 43   | 12369    | 5.092  | ug/L   | 94     |
| 16) Methylene chloride         | 2.54 | 84   | 33720    | 4.668  | ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73   | 84111    | 5.378  | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96   | 35767    | 5.273  | ug/L   | 95     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 45953    | 4.716  | ug/L   | 99     |
| 21) 2-Butanone                 | 4.05 | 43   | 56435    | 51.248 | ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96   | 31025    | 5.132  | ug/L   | 96     |

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 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00571

Quant Time: Mar 05 04:13:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR030419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Mar 05 04:03:59 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.31  | 128  | 12392    | 5.192  | ug/L   | 95       |
| 25) Chloroform                  | 4.43  | 83   | 54399    | 5.277  | ug/L   | 95       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 31226    | 5.019  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 48438    | 5.040  | ug/L   | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 46683    | 5.099  | ug/L   | 98       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 38916    | 4.975  | ug/L   | 99       |
| 33) Benzene                     | 5.15  | 78   | 116153   | 5.178  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 32701    | 5.152  | ug/L   | 98       |
| 35) Methylcyclohexane           | 6.17  | 83   | 47079    | 4.646  | ug/L   | 94       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 27905    | 5.109  | ug/L   | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 38372    | 5.004  | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 43169    | 5.039  | ug/L   | 93       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 156558   | 52.678 | ug/L   | 97       |
| 42) Toluene                     | 7.43  | 91   | 132914   | 5.175  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 34845    | 5.133  | ug/L   | 95       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 20298    | 5.248  | ug/L   | 97       |
| 47) Tetrachloroethene           | 8.02  | 164  | 25481    | 5.217  | ug/L   | 95       |
| 48) 2-Hexanone                  | 8.19  | 43   | 110145   | 53.672 | ug/L   | 97       |
| 49) Dibromochloromethane        | 8.29  | 129  | 24921    | 4.990  | ug/L   | 97       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 19447    | 5.163  | ug/L # | 92       |
| 51) Chlorobenzene               | 8.93  | 112  | 86005    | 5.069  | ug/L   | 98       |
| 52) Ethylbenzene                | 9.06  | 91   | 153783   | 5.212  | ug/L   | 98       |
| 53) m,p-xylene                  | 9.18  | 106  | 59764    | 5.329  | ug/L   | 95       |
| 54) o-xylene                    | 9.59  | 106  | 56386    | 5.104  | ug/L   | 100      |
| 55) Styrene                     | 9.60  | 104  | 94743    | 5.293  | ug/L   | 99       |
| 56) Isopropylbenzene            | 9.98  | 105  | 155244   | 5.177  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 25044    | 5.257  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 17511    | 5.228  | ug/L   | 99       |
| 61) Bromoform                   | 9.78  | 173  | 12050    | 4.740  | ug/L   | 96       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 68526    | 5.197  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 67027    | 5.052  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 62098    | 5.059  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 3993     | 5.086  | ug/L # | 83       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 48783    | 5.002  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 38484    | 5.015  | ug/L   | 100      |
| 69) Naphthalene                 | 13.55 | 128  | 60951    | 4.754  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 34957    | 5.047  | ug/L   | 97       |

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

