

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV090219\  
 Data File : VV012522.D  
 Acq On : 02 Sep 2019 12:11  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

Quant Time: Sep 03 05:40:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Sep 03 02:30:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 176538   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 174412   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 86843    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 78602    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.60%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 76798    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 196463   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.80%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 146976   | 44.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 89.98%  |
| 24) Chloroform-d               | 4.40   | 84    | 123099   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 63849    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 229154   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 71088    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.00%  |
| 41) Toluene-d8                 | 7.36   | 98    | 215995   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.20%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 26457    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 105904   | 50.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.28% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 50432    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 72795    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.40%  |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 105043 | 4.646 ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50  | 132020 | 4.932 ug/L  | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 141271 | 4.864 ug/L  | 100    |
| 6) Bromomethane                | 1.54 | 94  | 84396  | 4.887 ug/L  | 100    |
| 8) Chloroethane                | 1.60 | 64  | 92242  | 4.632 ug/L  | 96     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 203139 | 4.562 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 120339 | 4.843 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 112158 | 4.911 ug/L  | 97     |
| 13) Acetone                    | 2.23 | 43  | 192854 | 41.597 ug/L | 98     |
| 14) Carbon disulfide           | 2.32 | 76  | 348266 | 4.743 ug/L  | 99     |
| 15) Methyl Acetate             | 2.47 | 43  | 61457  | 5.469 ug/L  | 92     |
| 16) Methylene chloride         | 2.53 | 84  | 123419 | 4.697 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 197371 | 5.088 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 86886  | 4.759 ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 170485 | 4.851 ug/L  | 99     |
| 21) 2-Butanone                 | 4.05 | 43  | 211607 | 47.702 ug/L | 95     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 89078  | 4.721 ug/L  | 98     |

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 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

Quant Time: Sep 03 05:40:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Sep 03 02:30:09 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 35843    | 4.756  | ug/L  | 98       |
| 25) Chloroform                  | 4.42  | 83   | 168437   | 4.574  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 106626   | 4.972  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 135123   | 4.675  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 146938   | 4.928  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 117384   | 4.671  | ug/L  | 99       |
| 33) Benzene                     | 5.14  | 78   | 358630   | 5.008  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 92873    | 4.681  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.17  | 83   | 145874   | 4.837  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 91908    | 4.796  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.55  | 83   | 115800   | 4.779  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 124157   | 4.982  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 575533   | 51.695 | ug/L  | 97       |
| 42) Toluene                     | 7.43  | 91   | 390617   | 5.018  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 96662    | 4.895  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 59072    | 4.876  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.02  | 164  | 66914    | 4.667  | ug/L  | 95       |
| 48) 2-Hexanone                  | 8.19  | 43   | 417082   | 53.456 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 67769    | 4.804  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 54033    | 4.998  | ug/L  | 97       |
| 51) Chlorobenzene               | 8.92  | 112  | 232687   | 4.759  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.05  | 91   | 425823   | 5.015  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 154343   | 5.012  | ug/L  | 98       |
| 54) o-xylene                    | 9.59  | 106  | 150198   | 5.169  | ug/L  | 95       |
| 55) Styrene                     | 9.60  | 104  | 257370   | 5.206  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.97  | 105  | 409805   | 5.095  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 65520    | 4.806  | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 52505    | 4.916  | ug/L  | 99       |
| 61) Bromoform                   | 9.77  | 173  | 32721    | 4.636  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 181376   | 4.838  | ug/L  | 96       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 180373   | 4.674  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 162798   | 4.738  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 10135    | 4.376  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 131161   | 4.734  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 101122   | 5.066  | ug/L  | 98       |
| 69) Naphthalene                 | 13.55 | 128  | 155539   | 5.256  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 94431    | 5.227  | ug/L  | 95       |

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

