

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081319\  
 Data File : VV012229.D  
 Acq On : 13 Aug 2019 21:53  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00538

Quant Time: Aug 14 02:54:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 14 02:48:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 198201   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 192841   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 98686    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 58829    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 96.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 47589    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 102.00% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 114383   | 5.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 114.40% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 154583   | 58.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 117.22% |
| 24) Chloroform-d               | 4.40   | 84    | 124818   | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.20% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 59924    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 104.80% |
| 32) Benzene-d6                 | 5.10   | 84    | 242414   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 72578    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.00% |
| 41) Toluene-d8                 | 7.36   | 98    | 231004   | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.60% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 27507    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.00% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 106532   | 60.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 120.68% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 55389    | 5.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 110.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 81461    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.60%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 95392    | 5.015  | ug/L  | 98     |
| 3) Chloromethane               | 1.25 | 50   | 89463    | 5.193  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 93127    | 5.261  | ug/L  | 99     |
| 6) Bromomethane                | 1.54 | 94   | 52113    | 5.209  | ug/L  | 96     |
| 8) Chloroethane                | 1.60 | 64   | 53527    | 5.242  | ug/L  | 95     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 121387   | 5.451  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 63029    | 5.598  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 59754    | 5.731  | ug/L  | 93     |
| 13) Acetone                    | 2.23 | 43   | 101502   | 61.759 | ug/L  | 99     |
| 14) Carbon disulfide           | 2.32 | 76   | 176419   | 5.777  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.47 | 43   | 26151    | 6.303  | ug/L  | 94     |
| 16) Methylene chloride         | 2.53 | 84   | 61819    | 5.498  | ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73   | 168512   | 5.867  | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96   | 77098    | 5.543  | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 139449   | 5.475  | ug/L  | 98     |
| 21) 2-Butanone                 | 4.05 | 43   | 196930   | 58.601 | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96   | 79744    | 5.191  | ug/L  | 98     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| -----                           |       |      |          |        |       |          |
| 23) Bromochloromethane          | 4.30  | 128  | 36222    | 5.532  | ug/L  | 98       |
| 25) Chloroform                  | 4.42  | 83   | 146955   | 5.081  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 88269    | 5.556  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 123737   | 5.246  | ug/L  | 98       |
| 30) Cyclohexane                 | 4.72  | 56   | 118301   | 5.036  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 109024   | 5.109  | ug/L  | 99       |
| 33) Benzene                     | 5.14  | 78   | 311518   | 5.355  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 80226    | 5.091  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.17  | 83   | 119977   | 4.901  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 75344    | 5.191  | ug/L  | 98       |
| 38) Bromodichloromethane        | 6.55  | 83   | 98916    | 5.290  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 103305   | 5.168  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 494520   | 61.976 | ug/L  | 99       |
| 42) Toluene                     | 7.43  | 91   | 334161   | 5.400  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 84672    | 5.384  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 53964    | 5.574  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.02  | 164  | 65809    | 5.067  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.19  | 43   | 357888   | 63.637 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 67115    | 5.585  | ug/L  | 95       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 52132    | 5.575  | ug/L  | 96       |
| 51) Chlorobenzene               | 8.92  | 112  | 208557   | 5.205  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.05  | 91   | 342866   | 5.199  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 133736   | 5.281  | ug/L  | 99       |
| 54) o-xylene                    | 9.59  | 106  | 129662   | 5.410  | ug/L  | 95       |
| 55) Styrene                     | 9.60  | 104  | 222880   | 5.565  | ug/L  | 98       |
| 56) Isopropylbenzene            | 9.97  | 105  | 340215   | 5.308  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 64539    | 5.747  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 48226    | 5.857  | ug/L  | 98       |
| 61) Bromoform                   | 9.77  | 173  | 33746    | 5.304  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 165672   | 5.044  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 164630   | 5.028  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 158054   | 5.244  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 10242    | 5.337  | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 120384   | 4.853  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 92427    | 5.013  | ug/L  | 98       |
| 69) Naphthalene                 | 13.55 | 128  | 145390   | 5.455  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 91945    | 5.280  | ug/L  | 99       |
| -----                           |       |      |          |        |       |          |

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

