

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121819\  
 Data File : VU036264.D  
 Acq On : 18 Dec 2019 09:49  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 00:45:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Dec 18 09:02:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 254458   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 273737   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 137587   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.62   | 65    | 138985   | 6.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 124.00% |
| 7) Chloroethane-d5             | 1.93   | 69    | 123229   | 6.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 122.80% |
| 11) 1,1-Dichloroethene-d2      | 2.60   | 63    | 188863   | 5.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 116.80% |
| 20) 2-Butanone-d5              | 4.68   | 46    | 197820   | 47.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 94.24%  |
| 24) Chloroform-d               | 5.11   | 84    | 204542   | 5.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 113.60% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 99718    | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.40% |
| 32) Benzene-d6                 | 5.77   | 84    | 387107   | 5.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 112.60% |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 114994   | 5.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 106.20% |
| 41) Toluene-d8                 | 7.93   | 98    | 371810   | 5.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 114.80% |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 48639    | 5.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 109.00% |
| 46) 2-Hexanone-d5              | 8.67   | 63    | 173099   | 50.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.50% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 101340   | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 131658   | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.00% |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 140687 | 4.954 ug/L   | 99     |
| 3) Chloromethane               | 1.54 | 50  | 146855 | 4.121 ug/L   | 98     |
| 5) Vinyl chloride              | 1.62 | 62  | 159053 | 4.704 ug/L   | 100    |
| 6) Bromomethane                | 1.87 | 94  | 97598  | 5.777 ug/L   | 96     |
| 8) Chloroethane                | 1.95 | 64  | 96765  | 4.792 ug/L   | 100    |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 214793 | 5.041 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 104853 | 5.136 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 92640  | 4.908 ug/L # | 84     |
| 13) Acetone                    | 2.66 | 43  | 149734 | 40.927 ug/L  | 96     |
| 14) Carbon disulfide           | 2.83 | 76  | 306281 | 4.836 ug/L   | 99     |
| 15) Methyl Acetate             | 2.99 | 43  | 37667  | 5.096 ug/L   | 96     |
| 16) Methylene chloride         | 3.08 | 84  | 118994 | 4.288 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 3.41 | 73  | 186460 | 4.609 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 96376  | 4.875 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 182078 | 4.988 ug/L   | 96     |
| 21) 2-Butanone                 | 4.76 | 43  | 223423 | 45.701 ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96  | 101216 | 4.773 ug/L   | 97     |

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 QLast Update : Wed Dec 18 09:02:03 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 5.02  | 128  | 51369    | 5.006  | ug/L   | 97       |
| 25) Chloroform                  | 5.13  | 83   | 196420   | 4.975  | ug/L   | 97       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 118040   | 5.041  | ug/L # | 95       |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 168645   | 5.004  | ug/L   | 100      |
| 30) Cyclohexane                 | 5.43  | 56   | 130829   | 4.563  | ug/L   | 98       |
| 31) Carbon tetrachloride        | 5.57  | 117  | 157325   | 5.120  | ug/L   | 98       |
| 33) Benzene                     | 5.82  | 78   | 412444   | 4.902  | ug/L   | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 104010   | 4.796  | ug/L   | 96       |
| 35) Methylcyclohexane           | 6.80  | 83   | 141388   | 4.585  | ug/L   | 96       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 104440   | 4.866  | ug/L   | 98       |
| 38) Bromodichloromethane        | 7.14  | 83   | 137471   | 4.921  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 137913   | 4.716  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone        | 7.83  | 43   | 532621   | 47.444 | ug/L   | 99       |
| 42) Toluene                     | 8.00  | 91   | 456482   | 5.062  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 120807   | 4.918  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 80233    | 4.989  | ug/L   | 96       |
| 47) Tetrachloroethene           | 8.58  | 164  | 97239    | 4.964  | ug/L   | 93       |
| 48) 2-Hexanone                  | 8.72  | 43   | 390965   | 46.665 | ug/L   | 96       |
| 49) Dibromochloromethane        | 8.84  | 129  | 104286   | 5.247  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 75212    | 4.903  | ug/L   | 98       |
| 51) Chlorobenzene               | 9.47  | 112  | 286753   | 4.816  | ug/L   | 97       |
| 52) Ethylbenzene                | 9.60  | 91   | 425635   | 4.699  | ug/L   | 98       |
| 53) m,p-Xylene                  | 9.72  | 106  | 170748   | 4.893  | ug/L   | 96       |
| 54) o-Xylene                    | 10.13 | 106  | 161613   | 4.802  | ug/L   | 94       |
| 55) Styrene                     | 10.14 | 104  | 288597   | 4.845  | ug/L   | 98       |
| 56) Isopropylbenzene            | 10.51 | 105  | 414596   | 4.797  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 101605   | 4.962  | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 71267    | 4.996  | ug/L   | 97       |
| 61) Bromoform                   | 10.32 | 173  | 60782    | 5.089  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 226767   | 4.885  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 225489   | 4.898  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 12.24 | 146  | 210561   | 4.761  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 14500    | 4.936  | ug/L   | 94       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 147978   | 4.254  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.86 | 180  | 93284    | 4.082  | ug/L   | 99       |
| 69) Naphthalene                 | 14.11 | 128  | 115271   | 3.965  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 14.35 | 180  | 92974    | 4.207  | ug/L   | 99       |
| -----                           |       |      |          |        |        |          |

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

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