

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051320\  
 Data File : VU038157.D  
 Acq On : 13 May 2020 20:30  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00527

Quant Time: May 14 01:16:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu May 14 01:11:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 355082   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 339145   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.82 | 152  | 169847   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 161353   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 99.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 135369   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 258173   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 95.00%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 473928   | 59.14    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 118.28% |
| 24) Chloroform-d               | 5.10   | 84    | 253196   | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.80% |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 148710   | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.40% |
| 32) Benzene-d6                 | 5.76   | 84    | 526808   | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.60% |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 173347   | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 105.60% |
| 41) Toluene-d8                 | 7.92   | 98    | 476768   | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 104.40% |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 68403    | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 104.20% |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 353783   | 57.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 114.04% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 146439   | 5.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 113.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 168898   | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.20% |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 144671 | 4.455 ug/L  | 98     |
| 3) Chloromethane               | 1.53 | 50  | 173035 | 4.421 ug/L  | 100    |
| 5) Vinyl chloride              | 1.62 | 62  | 174202 | 4.543 ug/L  | 99     |
| 6) Bromomethane                | 1.87 | 94  | 95890  | 4.392 ug/L  | 99     |
| 8) Chloroethane                | 1.95 | 64  | 105956 | 4.492 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 178496 | 4.552 ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 111589 | 4.591 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 114940 | 4.664 ug/L  | 95     |
| 13) Acetone                    | 2.66 | 43  | 270062 | 53.716 ug/L | 100    |
| 14) Carbon disulfide           | 2.82 | 76  | 366775 | 4.173 ug/L  | 100    |
| 15) Methyl Acetate             | 2.98 | 43  | 67468  | 4.797 ug/L  | 96     |
| 16) Methylene chloride         | 3.08 | 84  | 134135 | 4.670 ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 320186 | 4.676 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 123071 | 4.575 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 243325 | 4.631 ug/L  | 97     |
| 21) 2-Butanone                 | 4.75 | 43  | 474697 | 53.493 ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 134878 | 4.652 ug/L  | 96     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.01  | 128  | 59932    | 4.804  | ug/L  | 95       |
| 25) Chloroform                  | 5.13  | 83   | 231002   | 4.713  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 167509   | 4.842  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 5.35  | 97   | 183817   | 4.731  | ug/L  | 100      |
| 30) Cyclohexane                 | 5.42  | 56   | 211056   | 4.600  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 144121   | 4.615  | ug/L  | 97       |
| 33) Benzene                     | 5.81  | 78   | 529146   | 4.872  | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 128161   | 4.718  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.79  | 83   | 208371   | 4.736  | ug/L  | 96       |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 141868   | 4.809  | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.13  | 83   | 163736   | 4.801  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.63  | 75   | 202371   | 4.793  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 1077033  | 52.679 | ug/L  | 99       |
| 42) Toluene                     | 7.99  | 91   | 544443   | 4.749  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 8.23  | 75   | 174960   | 4.873  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.42  | 97   | 103307   | 5.043  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.57  | 164  | 88004    | 4.632  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.71  | 43   | 823761   | 55.016 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.83  | 129  | 107913   | 5.076  | ug/L  | 97       |
| 50) 1,2-Dibromoethane           | 8.94  | 107  | 95759    | 5.037  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.47  | 112  | 341536   | 4.800  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 581363   | 4.681  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.71  | 106  | 227764   | 4.783  | ug/L  | 98       |
| 54) o-Xylene                    | 10.11 | 106  | 221008   | 4.800  | ug/L  | 99       |
| 55) Styrene                     | 10.13 | 104  | 373003   | 4.826  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.50 | 105  | 563153   | 4.762  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 132963   | 5.112  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 103274   | 5.216  | ug/L  | 98       |
| 61) Bromoform                   | 10.31 | 173  | 57051    | 4.969  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 263369   | 4.766  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 260547   | 4.653  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.22 | 146  | 256124   | 4.817  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.01 | 75   | 21970    | 5.056  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 190227   | 4.744  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 176055   | 4.841  | ug/L  | 98       |
| 69) Naphthalene                 | 14.11 | 128  | 386455   | 5.047  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 163757   | 4.844  | ug/L  | 98       |

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

