

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052220\  
 Data File : VU038289.D  
 Acq On : 22 May 2020 19:48  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00517

Quant Time: May 22 22:22:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri May 22 22:19:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 302909   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 295703   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 150691   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 99173    | 3.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 71.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 86852    | 3.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 72.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 206536   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 89.20%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 366356   | 53.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.18% |
| 24) Chloroform-d               | 5.10   | 84    | 208294   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 118465   | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.40%  |
| 32) Benzene-d6                 | 5.76   | 84    | 422570   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 133567   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.40%  |
| 41) Toluene-d8                 | 7.92   | 98    | 384498   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.60%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 56525    | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 98.60%  |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 282691   | 52.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.52% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 112634   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 150505   | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.60% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 144998 | 5.234  | ug/L 99  |
| 3) Chloromethane               | 1.53 | 50  | 132944 | 3.982  | ug/L 98  |
| 5) Vinyl chloride              | 1.62 | 62  | 145469 | 4.447  | ug/L 99  |
| 6) Bromomethane                | 1.87 | 94  | 62803  | 3.372  | ug/L 98  |
| 8) Chloroethane                | 1.95 | 64  | 84056  | 4.177  | ug/L 98  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 177792 | 5.315  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 106854 | 5.153  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 110321 | 5.248  | ug/L 92  |
| 13) Acetone                    | 2.67 | 43  | 230834 | 53.821 | ug/L 99  |
| 14) Carbon disulfide           | 2.82 | 76  | 373279 | 4.978  | ug/L 100 |
| 15) Methyl Acetate             | 2.98 | 43  | 62629  | 5.220  | ug/L 100 |
| 16) Methylene chloride         | 3.08 | 84  | 127626 | 5.209  | ug/L 94  |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 309153 | 5.293  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 121779 | 5.306  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 224654 | 5.012  | ug/L 98  |
| 21) 2-Butanone                 | 4.75 | 43  | 409484 | 54.092 | ug/L 100 |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 133763 | 5.409  | ug/L 93  |

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 ALS Vial : 3 Sample Multiplier: 1

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 ClientSampleId :  
 VSTD00517

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri May 22 22:19:50 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.01  | 128  | 58059    | 5.455  | ug/L  | 91       |
| 25) Chloroform                  | 5.13  | 83   | 226202   | 5.410  | ug/L  | 96       |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 152039   | 5.152  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 186983   | 5.519  | ug/L  | 97       |
| 30) Cyclohexane                 | 5.42  | 56   | 206060   | 5.151  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 152526   | 5.601  | ug/L  | 98       |
| 33) Benzene                     | 5.81  | 78   | 513025   | 5.418  | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 124955   | 5.276  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.79  | 83   | 200036   | 5.214  | ug/L  | 96       |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 131625   | 5.117  | ug/L  | 98       |
| 38) Bromodichloromethane        | 7.13  | 83   | 159933   | 5.379  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.63  | 75   | 190416   | 5.173  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 936569   | 52.538 | ug/L  | 99       |
| 42) Toluene                     | 7.99  | 91   | 535303   | 5.355  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 8.23  | 75   | 167218   | 5.342  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.42  | 97   | 94238    | 5.276  | ug/L  | 97       |
| 47) Tetrachloroethene           | 8.57  | 164  | 89030    | 5.374  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.71  | 43   | 690517   | 52.893 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.83  | 129  | 101826   | 5.493  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.94  | 107  | 90175    | 5.440  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.46  | 112  | 332130   | 5.354  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 585100   | 5.404  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.71  | 106  | 229759   | 5.534  | ug/L  | 99       |
| 54) o-Xylene                    | 10.12 | 106  | 218365   | 5.440  | ug/L  | 97       |
| 55) Styrene                     | 10.13 | 104  | 375925   | 5.578  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.50 | 105  | 563470   | 5.464  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 117606   | 5.186  | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 90507    | 5.243  | ug/L  | 99       |
| 61) Bromoform                   | 10.31 | 173  | 54807    | 5.381  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 256426   | 5.230  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 255475   | 5.142  | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 12.22 | 146  | 243074   | 5.153  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.01 | 75   | 18458    | 4.788  | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 188935   | 5.310  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 173198   | 5.367  | ug/L  | 99       |
| 69) Naphthalene                 | 14.11 | 128  | 365705   | 5.383  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 161908   | 5.398  | ug/L  | 98       |

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

