

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021720\  
 Data File : VU036802.D  
 Acq On : 17 Feb 2020 10:59  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00520

Quant Time: Feb 18 00:43:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Feb 17 10:22:54 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 123418   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 114616   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 51337    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 44506    | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.80%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 42958    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 80940    | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.20%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 127699   | 57.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 114.74% |
| 24) Chloroform-d               | 5.11   | 84    | 84927    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.80% |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 47073    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.40% |
| 32) Benzene-d6                 | 5.76   | 84    | 174856   | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.40% |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 56991    | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.20% |
| 41) Toluene-d8                 | 7.92   | 98    | 158491   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 21746    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 101.20% |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 106517   | 54.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 108.52% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 45294    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 103.80% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 50990    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.40%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 41854  | 5.135  | ug/L 98  |
| 3) Chloromethane               | 1.54 | 50  | 44868  | 5.289  | ug/L 97  |
| 5) Vinyl chloride              | 1.62 | 62  | 52658  | 5.314  | ug/L 97  |
| 6) Bromomethane                | 1.87 | 94  | 30027  | 5.043  | ug/L 98  |
| 8) Chloroethane                | 1.95 | 64  | 33620  | 4.857  | ug/L 98  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 65300  | 5.009  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 43269  | 5.197  | ug/L 96  |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 37722  | 5.025  | ug/L 99  |
| 13) Acetone                    | 2.66 | 43  | 145201 | 51.016 | ug/L 98  |
| 14) Carbon disulfide           | 2.82 | 76  | 89459  | 4.938  | ug/L 100 |
| 15) Methyl Acetate             | 2.98 | 43  | 19488  | 5.160  | ug/L 96  |
| 16) Methylene chloride         | 3.08 | 84  | 48433  | 3.827  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 3.41 | 73  | 116061 | 5.220  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 39884  | 5.148  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 88105  | 5.423  | ug/L 97  |
| 21) 2-Butanone                 | 4.75 | 43  | 175595 | 53.037 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 49636  | 5.295  | ug/L 96  |

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 MSVOA\_U  
 ClientSampleId :  
 VSTD00520

Quant Time: Feb 18 00:43:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Feb 17 10:22:54 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 19963    | 5.356  | ug/L  | 97       |
| 25) Chloroform                  | 5.13  | 83   | 85467    | 4.926  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 56559    | 5.114  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 65854    | 5.231  | ug/L  | 99       |
| 30) Cyclohexane                 | 5.43  | 56   | 70982    | 5.309  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 52430    | 5.163  | ug/L  | 97       |
| 33) Benzene                     | 5.81  | 78   | 188301   | 5.326  | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 47256    | 5.248  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.79  | 83   | 75496    | 5.284  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 51489    | 5.334  | ug/L  | 100      |
| 38) Bromodichloromethane        | 7.14  | 83   | 61160    | 5.309  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 75495    | 5.405  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.83  | 43   | 335421   | 53.848 | ug/L  | 99       |
| 42) Toluene                     | 8.00  | 91   | 200620   | 5.284  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 58898    | 5.396  | ug/L  | 95       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 35888    | 5.344  | ug/L  | 100      |
| 47) Tetrachloroethene           | 8.58  | 164  | 30583    | 4.993  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.72  | 43   | 285323   | 53.525 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.84  | 129  | 37633    | 5.419  | ug/L  | 90       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 31713    | 5.229  | ug/L  | 100      |
| 51) Chlorobenzene               | 9.47  | 112  | 122296   | 5.207  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 221510   | 5.223  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.72  | 106  | 81936    | 5.250  | ug/L  | 96       |
| 54) o-Xylene                    | 10.12 | 106  | 81432    | 5.313  | ug/L  | 99       |
| 55) Styrene                     | 10.14 | 104  | 136265   | 5.274  | ug/L  | 98       |
| 56) Isopropylbenzene            | 10.51 | 105  | 215148   | 5.246  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 46063    | 5.240  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 33265    | 5.219  | ug/L  | 99       |
| 61) Bromoform                   | 10.31 | 173  | 18889    | 5.340  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 91571    | 5.177  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 90012    | 5.134  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 87440    | 5.128  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 7010     | 5.509  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 13.25 | 180  | 65294    | 5.244  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.88 | 180  | 49078    | 5.227  | ug/L  | 97       |
| 69) Naphthalene                 | 14.12 | 128  | 91197    | 5.361  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.37 | 180  | 44810    | 5.318  | ug/L  | 99       |

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

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