

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU053120\  
 Data File : VU038411.D  
 Acq On : 30 May 2020 13:48  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00524

Quant Time: Jun 01 02:12:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 02:06:52 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 333371   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 318003   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 158953   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 109601   | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 101.60% |
| 7) Chloroethane-d5             | 1.93   | 69    | 85474    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 103.00% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 215371   | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 101.40% |
| 20) 2-Butanone-d5              | 4.69   | 46    | 335549   | 51.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 102.38% |
| 24) Chloroform-d               | 5.10   | 84    | 204827   | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.00% |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 114922   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.80%  |
| 32) Benzene-d6                 | 5.76   | 84    | 411921   | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.80% |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 125574   | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.80% |
| 41) Toluene-d8                 | 7.92   | 98    | 365759   | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.80% |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 54149    | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 103.20% |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 284658   | 54.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 109.80% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 108000   | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 141385   | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 103.20% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 132017   | 5.025  | ug/L  | 98     |
| 3) Chloromethane               | 1.53 | 50   | 117444   | 4.867  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.62 | 62   | 130421   | 5.045  | ug/L  | 98     |
| 6) Bromomethane                | 1.88 | 94   | 66938    | 5.333  | ug/L  | 98     |
| 8) Chloroethane                | 1.95 | 64   | 77071    | 4.975  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 2.16 | 101  | 169591   | 4.945  | ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101  | 100055   | 4.954  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.61 | 96   | 100243   | 4.883  | ug/L  | 95     |
| 13) Acetone                    | 2.69 | 43   | 204253   | 47.618 | ug/L  | 83     |
| 14) Carbon disulfide           | 2.82 | 76   | 346765   | 4.978  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.99 | 43   | 54975    | 5.231  | ug/L  | 95     |
| 16) Methylene chloride         | 3.08 | 84   | 115115   | 4.955  | ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 3.40 | 73   | 280659   | 5.214  | ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96   | 110908   | 5.013  | ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.91 | 63   | 202030   | 5.102  | ug/L  | 97     |
| 21) 2-Butanone                 | 4.76 | 43   | 373326   | 51.745 | ug/L  | 95     |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96   | 120774   | 5.069  | ug/L  | 95     |

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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00524

Quant Time: Jun 01 02:12:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 02:06:52 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 52647    | 4.910  | ug/L  | 91       |
| 25) Chloroform                  | 5.13  | 83   | 203563   | 5.061  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 144030   | 5.086  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 5.35  | 97   | 175926   | 5.228  | ug/L  | 98       |
| 30) Cyclohexane                 | 5.42  | 56   | 183645   | 5.205  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 143355   | 5.117  | ug/L  | 99       |
| 33) Benzene                     | 5.81  | 78   | 454295   | 5.123  | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 116352   | 5.055  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.79  | 83   | 183448   | 5.148  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 114742   | 5.142  | ug/L  | 100      |
| 38) Bromodichloromethane        | 7.13  | 83   | 144041   | 5.198  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.63  | 75   | 177304   | 5.376  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 861024   | 53.955 | ug/L  | 100      |
| 42) Toluene                     | 7.99  | 91   | 476978   | 5.128  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 8.23  | 75   | 150582   | 5.170  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 8.42  | 97   | 86892    | 5.162  | ug/L  | 97       |
| 47) Tetrachloroethene           | 8.57  | 164  | 83435    | 4.990  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.71  | 43   | 647510   | 53.578 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.83  | 129  | 97593    | 5.371  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.94  | 107  | 85043    | 5.276  | ug/L  | 100      |
| 51) Chlorobenzene               | 9.47  | 112  | 303260   | 5.056  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.59  | 91   | 524030   | 5.064  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.71  | 106  | 203251   | 5.107  | ug/L  | 97       |
| 54) o-Xylene                    | 10.12 | 106  | 198527   | 5.196  | ug/L  | 99       |
| 55) Styrene                     | 10.13 | 104  | 335771   | 5.178  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.50 | 105  | 506041   | 5.033  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 110962   | 5.187  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 86135    | 5.172  | ug/L  | 99       |
| 61) Bromoform                   | 10.31 | 173  | 53176    | 5.370  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 240616   | 5.152  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 238656   | 5.039  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 12.22 | 146  | 228760   | 5.158  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 19400    | 5.403  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 177204   | 5.086  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 168699   | 5.231  | ug/L  | 99       |
| 69) Naphthalene                 | 14.11 | 128  | 357441   | 5.569  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 154850   | 5.277  | ug/L  | 99       |

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

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VSTD00524

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