

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U071020\  
 Data File : VU039449.D  
 Acq On : 10 Jul 2020 22:38  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00515

Quant Time: Jul 11 02:55:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jul 11 02:49:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 95109    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 88776    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 44647    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 25604    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 93.00%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 30882    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 109.60% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 52610    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.00%  |
| 20) 2-Butanone-d5              | 4.65   | 46    | 126631   | 50.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 100.42% |
| 24) Chloroform-d               | 5.09   | 84    | 55859    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 34994    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.00%  |
| 32) Benzene-d6                 | 5.75   | 84    | 101429   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 36433    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.00%  |
| 41) Toluene-d8                 | 7.91   | 98    | 85266    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.00%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 15668    | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.60%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 98158    | 49.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.80%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 37215    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.00% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 38885    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.60%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 33549  | 5.820  | ug/L 100 |
| 3) Chloromethane               | 1.53 | 50  | 33791  | 4.838  | ug/L 98  |
| 5) Vinyl chloride              | 1.61 | 62  | 39609  | 5.108  | ug/L 95  |
| 6) Bromomethane                | 1.87 | 94  | 19106  | 5.721  | ug/L 94  |
| 8) Chloroethane                | 1.94 | 64  | 33035  | 5.896  | ug/L 92  |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 66759  | 4.958  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 30374  | 5.497  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 27783  | 4.912  | ug/L 89  |
| 13) Acetone                    | 2.66 | 43  | 66461  | 48.818 | ug/L 96  |
| 14) Carbon disulfide           | 2.81 | 76  | 91117  | 4.573  | ug/L 98  |
| 15) Methyl Acetate             | 2.97 | 43  | 17519  | 4.872  | ug/L 93  |
| 16) Methylene chloride         | 3.06 | 84  | 33951  | 4.772  | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 86262  | 4.840  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 29293  | 4.678  | ug/L 92  |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 59228  | 4.834  | ug/L 97  |
| 21) 2-Butanone                 | 4.73 | 43  | 111819 | 46.017 | ug/L 100 |
| 22) cis-1,2-Dichloroethene     | 4.69 | 96  | 33671  | 4.795  | ug/L 99  |

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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00515

Quant Time: Jul 11 02:55:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jul 11 02:49:36 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 5.00  | 128  | 14679    | 4.602  | ug/L   | 94       |
| 25) Chloroform                 | 5.11  | 83   | 63439    | 5.127  | ug/L   | 98       |
| 27) 1,2-Dichloroethane         | 5.81  | 62   | 46037    | 5.144  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane      | 5.33  | 97   | 53621    | 5.128  | ug/L   | 98       |
| 30) Cyclohexane                | 5.40  | 56   | 56060    | 5.093  | ug/L   | 96       |
| 31) Carbon tetrachloride       | 5.54  | 117  | 44259    | 4.961  | ug/L   | 98       |
| 33) Benzene                    | 5.79  | 78   | 131241   | 4.945  | ug/L   | 100      |
| 34) Trichloroethene            | 6.56  | 95   | 33806    | 4.927  | ug/L   | 97       |
| 35) Methylcyclohexane          | 6.77  | 83   | 54580    | 4.965  | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 6.81  | 63   | 34480    | 4.765  | ug/L   | 100      |
| 38) Bromodichloromethane       | 7.12  | 83   | 44411    | 4.807  | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene    | 7.62  | 75   | 51271    | 4.688  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone       | 7.80  | 43   | 286271   | 47.428 | ug/L   | 97       |
| 42) Toluene                    | 7.98  | 91   | 140886   | 4.957  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 8.22  | 75   | 44688    | 4.605  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 8.41  | 97   | 25420    | 4.891  | ug/L   | 96       |
| 47) Tetrachloroethene          | 8.56  | 164  | 23150    | 4.850  | ug/L   | 99       |
| 48) 2-Hexanone                 | 8.69  | 43   | 209118   | 46.988 | ug/L   | 99       |
| 49) Dibromochloromethane       | 8.82  | 129  | 30337    | 4.819  | ug/L   | 93       |
| 50) 1,2-Dibromoethane          | 8.93  | 107  | 25125    | 4.759  | ug/L # | 97       |
| 51) Chlorobenzene              | 9.45  | 112  | 85156    | 4.903  | ug/L   | 98       |
| 52) Ethylbenzene               | 9.57  | 91   | 155940   | 4.965  | ug/L   | 100      |
| 53) m,p-Xylene                 | 9.70  | 106  | 57790    | 4.883  | ug/L   | 99       |
| 54) o-Xylene                   | 10.10 | 106  | 56219    | 4.879  | ug/L   | 98       |
| 55) Styrene                    | 10.12 | 104  | 94490    | 4.713  | ug/L   | 99       |
| 56) Isopropylbenzene           | 10.48 | 105  | 151469   | 4.861  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 33812    | 4.674  | ug/L   | 95       |
| 59) 1,2,3-Trichloropropane     | 10.83 | 75   | 24762    | 4.644  | ug/L   | 96       |
| 61) Bromoform                  | 10.29 | 173  | 16197    | 4.304  | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene        | 11.74 | 146  | 65611    | 4.690  | ug/L   | 94       |
| 63) 1,4-Dichlorobenzene        | 11.83 | 146  | 65071    | 4.636  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 12.21 | 146  | 64621    | 4.608  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 5385     | 4.346  | ug/L   | 91       |
| 67) 1,3,5-Trichlorobenzene     | 13.21 | 180  | 48397    | 4.623  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.83 | 180  | 41463    | 4.628  | ug/L   | 98       |
| 69) Naphthalene                | 14.08 | 128  | 75374    | 4.181  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 38250    | 4.608  | ug/L   | 98       |

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

