

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021720\  
 Data File : VU036824.D  
 Acq On : 17 Feb 2020 21:07  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00521

Quant Time: Feb 18 00:51:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Feb 18 00:46:02 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 120015   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 112232   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 49868    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 39483    | 3.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 76.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 39155    | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 72572    | 4.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 84.20%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 109618   | 50.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.30% |
| 24) Chloroform-d               | 5.11   | 84    | 75967    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 43080    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.40%  |
| 32) Benzene-d6                 | 5.76   | 84    | 159501   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 52273    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.60%  |
| 41) Toluene-d8                 | 7.92   | 98    | 146133   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.00%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 18872    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.60%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 97140    | 50.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 43047    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.80% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 47426    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.20%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 40088  | 5.058  | ug/L 100 |
| 3) Chloromethane               | 1.54 | 50  | 41311  | 5.008  | ug/L 99  |
| 5) Vinyl chloride              | 1.62 | 62  | 49160  | 5.102  | ug/L 96  |
| 6) Bromomethane                | 1.87 | 94  | 25937  | 4.480  | ug/L 89  |
| 8) Chloroethane                | 1.95 | 64  | 32048  | 4.761  | ug/L 99  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 63769  | 5.030  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 39560  | 4.887  | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 35721  | 4.893  | ug/L 99  |
| 13) Acetone                    | 2.66 | 43  | 88149  | 31.849 | ug/L 98  |
| 14) Carbon disulfide           | 2.82 | 76  | 82203  | 4.666  | ug/L 100 |
| 15) Methyl Acetate             | 2.98 | 43  | 19277  | 5.249  | ug/L 98  |
| 16) Methylene chloride         | 3.08 | 84  | 54717  | 4.447  | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 3.41 | 73  | 109358 | 5.058  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 37570  | 4.987  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 82277  | 5.208  | ug/L 98  |
| 21) 2-Butanone                 | 4.75 | 43  | 131049 | 40.704 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 47365  | 5.196  | ug/L 99  |

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Feb 18 00:46:02 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 18512    | 5.108  | ug/L  | 98       |
| 25) Chloroform                  | 5.13  | 83   | 82261    | 4.876  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 53154    | 4.942  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 61990    | 5.029  | ug/L  | 100      |
| 30) Cyclohexane                 | 5.43  | 56   | 65829    | 5.028  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 48937    | 4.921  | ug/L  | 98       |
| 33) Benzene                     | 5.81  | 78   | 179944   | 5.198  | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 44798    | 5.081  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.80  | 83   | 68631    | 4.905  | ug/L  | 97       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 50064    | 5.297  | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.14  | 83   | 56795    | 5.035  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 67447    | 4.931  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.83  | 43   | 309090   | 50.674 | ug/L  | 100      |
| 42) Toluene                     | 8.00  | 91   | 193430   | 5.203  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 53875    | 5.040  | ug/L  | 94       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 34366    | 5.226  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.58  | 164  | 28923    | 4.822  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.71  | 43   | 228713   | 43.817 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.83  | 129  | 34118    | 5.017  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 29723    | 5.005  | ug/L  | 98       |
| 51) Chlorobenzene               | 9.47  | 112  | 116769   | 5.077  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.59  | 91   | 210682   | 5.074  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.72  | 106  | 77448    | 5.068  | ug/L  | 95       |
| 54) o-Xylene                    | 10.12 | 106  | 76008    | 5.065  | ug/L  | 94       |
| 55) Styrene                     | 10.13 | 104  | 128541   | 5.081  | ug/L  | 100      |
| 56) Isopropylbenzene            | 10.50 | 105  | 206382   | 5.139  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 44288    | 5.145  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 31740    | 5.086  | ug/L  | 100      |
| 61) Bromoform                   | 10.31 | 173  | 17436    | 5.075  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 87002    | 5.064  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 84808    | 4.979  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 84331    | 5.091  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 6019     | 4.869  | ug/L  | 86       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 59892    | 4.951  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 42740    | 4.686  | ug/L  | 98       |
| 69) Naphthalene                 | 14.12 | 128  | 75237    | 4.553  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.37 | 180  | 40727    | 4.975  | ug/L  | 97       |

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

