

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101419\  
 Data File : VU035140.D  
 Acq On : 14 Oct 2019 10:03  
 Operator : JC/SP  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00518

Quant Time: Oct 15 07:00:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 15 02:41:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 162830   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 167806   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 81858    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 44306    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.00%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 43414    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 97976    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 96.60%  |
| 20) 2-Butanone-d5              | 4.16   | 46    | 148995   | 52.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 105.12% |
| 24) Chloroform-d               | 4.62   | 84    | 89873    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 51492    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.60%  |
| 32) Benzene-d6                 | 5.32   | 84    | 172941   | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 59910    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.00%  |
| 41) Toluene-d8                 | 7.54   | 98    | 162923   | 4.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.60%  |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 21181    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.60%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 107614   | 47.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.60%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 54581    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 58856    | 4.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.20%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 74419  | 5.001  | ug/L 99  |
| 3) Chloromethane               | 1.32 | 50  | 79003  | 4.840  | ug/L 100 |
| 5) Vinyl chloride              | 1.40 | 62  | 81860  | 5.105  | ug/L 100 |
| 6) Bromomethane                | 1.62 | 94  | 45803  | 5.139  | ug/L 99  |
| 8) Chloroethane                | 1.69 | 64  | 49115  | 5.107  | ug/L 96  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 104788 | 5.404  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 58350  | 5.240  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 52343  | 5.005  | ug/L 84  |
| 13) Acetone                    | 2.31 | 43  | 122880 | 52.931 | ug/L 95  |
| 14) Carbon disulfide           | 2.46 | 76  | 168841 | 4.851  | ug/L 99  |
| 15) Methyl Acetate             | 2.60 | 43  | 31876  | 5.158  | ug/L 94  |
| 16) Methylene chloride         | 2.68 | 84  | 65413  | 5.052  | ug/L 86  |
| 17) Methyl tert-butyl Ether    | 2.98 | 73  | 150221 | 5.265  | ug/L 97  |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 55997  | 5.000  | ug/L 89  |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 119090 | 5.350  | ug/L 98  |
| 21) 2-Butanone                 | 4.25 | 43  | 174439 | 52.764 | ug/L 96  |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 61422  | 4.917  | ug/L 88  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 28382    | 5.421  | ug/L  | 92       |
| 25) Chloroform                 | 4.65  | 83   | 128107   | 5.122  | ug/L  | 97       |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 76427    | 5.233  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 4.89  | 97   | 95886    | 5.088  | ug/L  | 97       |
| 30) Cyclohexane                | 4.97  | 56   | 93288    | 4.502  | ug/L  | 95       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 85282    | 5.219  | ug/L  | 98       |
| 33) Benzene                    | 5.36  | 78   | 251369   | 4.973  | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 62588    | 4.801  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.39  | 83   | 96428    | 4.567  | ug/L  | 96       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 71693    | 5.258  | ug/L  | 98       |
| 38) Bromodichloromethane       | 6.74  | 83   | 83112    | 5.200  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 91119    | 4.933  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 440477   | 51.328 | ug/L  | 94       |
| 42) Toluene                    | 7.62  | 91   | 273845   | 5.190  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 74051    | 5.176  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 48131    | 5.317  | ug/L  | 95       |
| 47) Tetrachloroethene          | 8.21  | 164  | 50712    | 4.806  | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.35  | 43   | 293091   | 49.813 | ug/L  | 95       |
| 49) Dibromochloromethane       | 8.46  | 129  | 56320    | 5.382  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 45054    | 5.207  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.10  | 112  | 170005   | 4.972  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.23  | 91   | 287859   | 4.940  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.36  | 106  | 105727   | 4.912  | ug/L  | 99       |
| 54) o-Xylene                   | 9.76  | 106  | 104182   | 4.949  | ug/L  | 96       |
| 55) Styrene                    | 9.77  | 104  | 175511   | 5.148  | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.15 | 105  | 274680   | 4.898  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 64337    | 5.226  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 45546    | 5.161  | ug/L  | 96       |
| 61) Bromoform                  | 9.94  | 173  | 31010    | 5.523  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 127538   | 5.058  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 128024   | 5.030  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 123555   | 5.078  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 8490     | 5.490  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 78565    | 4.601  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 51835    | 4.065  | ug/L  | 98       |
| 69) Naphthalene                | 13.73 | 128  | 70665    | 3.564  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 54599    | 4.403  | ug/L  | 96       |

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

