

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100918\  
 Data File : VU027524.D  
 Acq On : 09 Oct 2018 13:10  
 Operator : MD/SY  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05044

Quant Time: Oct 10 08:26:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100518WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 10 08:24:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 196624   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 180845   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 88050    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 64095    | 41.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.84%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 50461    | 42.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.66%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 129523   | 44.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.24%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 102000   | 81.65    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 81.65%  |
| 24) Chloroform-d               | 4.65    | 84    | 103554   | 41.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.68%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 74211    | 42.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.58%  |
| 32) Benzene-d6                 | 5.34    | 84    | 220593   | 42.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.12%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 76229    | 42.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 85.88%  |
| 41) Toluene-d8                 | 7.57    | 98    | 192739   | 41.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 83.20%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 35195    | 41.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.28%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 73954    | 82.48    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 82.48%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 97904    | 42.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 84.34%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 68708    | 39.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 79.78%# |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units | Ovalue |
|--------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85   | 97440    | 49.972  | ug/L  | 98     |
| 3) Chloromethane               | 1.33 | 50   | 115535   | 51.565  | ug/L  | 98     |
| 5) Vinyl chloride              | 1.40 | 62   | 108089   | 49.369  | ug/L  | 97     |
| 6) Bromomethane                | 1.62 | 94   | 46100    | 48.182  | ug/L  | 99     |
| 8) Chloroethane                | 1.70 | 64   | 61772    | 47.078  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.89 | 101  | 115642   | 52.767  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101  | 67931    | 52.211  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.29 | 96   | 61616    | 48.512  | ug/L  | 94     |
| 13) Acetone                    | 2.32 | 43   | 123368   | 120.409 | ug/L  | 100    |
| 14) Carbon disulfide           | 2.48 | 76   | 211270   | 45.284  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.62 | 43   | 107424   | 52.323  | ug/L  | 99     |
| 16) Methylene chloride         | 2.70 | 84   | 79257    | 51.378  | ug/L  | 97     |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96   | 66800    | 47.494  | ug/L  | 95     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73   | 239873   | 51.293  | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.45 | 63   | 152236   | 52.419  | ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96   | 77260    | 49.518  | ug/L  | 96     |
| 22) 2-Butanone                 | 4.26 | 43   | 159502   | 108.753 | ug/L  | 99     |

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| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.55  | 128  | 36415    | 51.179  | ug/L  | 93       |
| 25) Chloroform                  | 4.67  | 83   | 147441   | 52.554  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.41  | 62   | 115342   | 51.191  | ug/L  | 100      |
| 29) Cyclohexane                 | 5.00  | 56   | 142770   | 52.048  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane       | 4.92  | 97   | 114716   | 53.017  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.14  | 117  | 97834    | 53.757  | ug/L  | 99       |
| 33) Benzene                     | 5.39  | 78   | 312561   | 52.595  | ug/L  | 100      |
| 34) Trichloroethene             | 6.19  | 95   | 70917    | 49.620  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.42  | 83   | 127650   | 51.405  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 93845    | 54.505  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.76  | 83   | 104909   | 53.619  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 130469   | 51.570  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 277465   | 110.048 | ug/L  | 97       |
| 42) Toluene                     | 7.64  | 91   | 308960   | 51.814  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.88  | 75   | 120525   | 51.323  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 8.07  | 97   | 72831    | 52.694  | ug/L  | 100      |
| 46) Tetrachloroethene           | 8.23  | 164  | 53731    | 50.586  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.36  | 43   | 225933   | 113.484 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.48  | 129  | 75942    | 52.694  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.59  | 107  | 75124    | 51.233  | ug/L  | 100      |
| 51) Chlorobenzene               | 9.12  | 112  | 187586   | 49.761  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.25  | 91   | 335606   | 50.690  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.38  | 106  | 124118   | 51.219  | ug/L  | 98       |
| 54) o-xylene                    | 9.78  | 106  | 121609   | 52.091  | ug/L  | 99       |
| 55) Styrene                     | 9.79  | 104  | 207806   | 51.981  | ug/L  | 97       |
| 56) Isopropylbenzene            | 10.17 | 105  | 320093   | 52.320  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.46 | 83   | 128661   | 53.129  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 104250   | 53.481  | ug/L  | 100      |
| 61) Bromoform                   | 9.96  | 173  | 53211    | 53.186  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.42 | 146  | 130999   | 47.803  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.51 | 146  | 136773   | 47.848  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.88 | 146  | 140497   | 50.364  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.66 | 75   | 27030    | 52.268  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 12.89 | 180  | 99086    | 46.799  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 82587    | 42.416  | ug/L  | 99       |
| 69) Naphthalene                 | 13.74 | 128  | 294917   | 49.122  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.99 | 180  | 93569    | 47.257  | ug/L  | 98       |

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

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