

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU071918\  
 Data File : VU025526.D  
 Acq On : 19 Jul 2018 17:00  
 Operator : MD/SY  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05052

Quant Time: Jul 20 02:46:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071718WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 20 02:44:53 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 314830   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 292421   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 153021   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 57460    | 38.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 77.40%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 56790    | 44.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 89.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.28    | 63    | 152676   | 46.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.66%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 154052   | 97.51    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.51%  |
| 24) Chloroform-d               | 4.65    | 84    | 186259   | 48.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.72%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 124700   | 47.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.16%  |
| 32) Benzene-d6                 | 5.35    | 84    | 332277   | 47.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.04%  |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 110826   | 47.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.72%  |
| 41) Toluene-d8                 | 7.57    | 98    | 320302   | 46.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.66%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 57089    | 46.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.72%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 113954   | 93.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.92%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 174939   | 50.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 100.70% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 146864   | 47.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.78%  |

## Target Compounds

|                                |      |     |        |         | Qvalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 126376 | 48.791  | ug/L 99  |
| 3) Chloromethane               | 1.33 | 50  | 93479  | 40.783  | ug/L 99  |
| 5) Vinyl chloride              | 1.41 | 62  | 107289 | 46.553  | ug/L 99  |
| 6) Bromomethane                | 1.63 | 94  | 21159  | 16.845  | ug/L 99  |
| 8) Chloroethane                | 1.70 | 64  | 67057  | 48.620  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 167664 | 49.486  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 100271 | 54.508  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 89292  | 52.327  | ug/L 98  |
| 13) Acetone                    | 2.32 | 43  | 157454 | 114.130 | ug/L 98  |
| 14) Carbon disulfide           | 2.48 | 76  | 258965 | 46.965  | ug/L 99  |
| 15) Methyl Acetate             | 2.62 | 43  | 120161 | 47.129  | ug/L 98  |
| 16) Methylene chloride         | 2.71 | 84  | 119430 | 53.518  | ug/L 96  |
| 17) trans-1,2-Dichloroethene   | 2.99 | 96  | 99390  | 49.242  | ug/L 94  |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 354982 | 49.636  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 200253 | 49.596  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 124128 | 50.229  | ug/L 97  |
| 22) 2-Butanone                 | 4.26 | 43  | 195344 | 102.870 | ug/L 99  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU071918\  
 Data File : VU025526.D  
 Acq On : 19 Jul 2018 17:00  
 Operator : MD/SY  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05052

Quant Time: Jul 20 02:46:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071718WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 20 02:44:53 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.55  | 128  | 65180    | 52.623 | ug/L  | 96       |
| 25) Chloroform                 | 4.68  | 83   | 211631   | 49.881 | ug/L  | 96       |
| 27) 1,2-Dichloroethane         | 5.41  | 62   | 176205   | 50.011 | ug/L  | 100      |
| 29) Cyclohexane                | 5.00  | 56   | 168323   | 49.987 | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane      | 4.92  | 97   | 192554   | 49.482 | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.14  | 117  | 171935   | 50.294 | ug/L  | 99       |
| 33) Benzene                    | 5.39  | 78   | 428751   | 49.561 | ug/L  | 100      |
| 34) Trichloroethene            | 6.19  | 95   | 113301   | 49.475 | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.42  | 83   | 180926   | 52.036 | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.44  | 63   | 118925   | 49.833 | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.76  | 83   | 157362   | 48.836 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 189389   | 51.220 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 325236   | 93.968 | ug/L  | 100      |
| 42) Toluene                    | 7.64  | 91   | 466390   | 50.561 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 178324   | 50.237 | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 116399   | 51.444 | ug/L  | 96       |
| 46) Tetrachloroethene          | 8.23  | 164  | 97426    | 50.997 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.36  | 43   | 268337   | 97.038 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.48  | 129  | 138975   | 50.738 | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 125015   | 50.058 | ug/L  | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 314621   | 50.833 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.25  | 91   | 519988   | 50.500 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.38  | 106  | 201685   | 51.103 | ug/L  | 97       |
| 54) o-xylene                   | 9.78  | 106  | 204454   | 51.351 | ug/L  | 97       |
| 55) Styrene                    | 9.80  | 104  | 339659   | 51.652 | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.17 | 105  | 534154   | 51.805 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 190900   | 49.005 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 10.50 | 75   | 151843   | 47.846 | ug/L  | 99       |
| 61) Bromoform                  | 9.96  | 173  | 101757   | 47.142 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 250359   | 49.365 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 256141   | 49.977 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 264667   | 49.422 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 43717    | 43.622 | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 198956   | 51.037 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180  | 172572   | 49.646 | ug/L  | 100      |
| 69) Naphthalene                | 13.74 | 128  | 558408   | 46.428 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 185888   | 49.584 | ug/L  | 99       |

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

