

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070618\  
 Data File : VU025237.D  
 Acq On : 06 Jul 2018 13:14  
 Operator : MD/SY  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05048

Quant Time: Jul 06 23:16:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM062918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 06 23:15:38 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 328764   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 304046   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 161253   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 84096    | 42.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.58%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 72245    | 44.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 89.14%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 198245   | 46.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.48%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 174006   | 105.92   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.92% |
| 24) Chloroform-d               | 4.65    | 84    | 204934   | 48.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.36%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 139512   | 46.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.48%  |
| 32) Benzene-d6                 | 5.35    | 84    | 381843   | 45.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.54%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 123568   | 46.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.00%  |
| 41) Toluene-d8                 | 7.57    | 98    | 377253   | 46.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.44%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 62159    | 46.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.30%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 125920   | 103.83   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.83% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 184865   | 49.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 165548   | 47.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.24%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85   | 154408   | 51.69  | ug/L  | 99     |
| 3) Chloromethane               | 1.33 | 50   | 121617   | 49.35  | ug/L  | 100    |
| 5) Vinyl chloride              | 1.40 | 62   | 126720   | 49.70  | ug/L  | 100    |
| 6) Bromomethane                | 1.62 | 94   | 69772    | 50.97  | ug/L  | 98     |
| 8) Chloroethane                | 1.70 | 64   | 77910    | 50.70  | ug/L  | 96     |
| 9) Trichlorofluoromethane      | 1.89 | 101  | 191496   | 51.43  | ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101  | 114541   | 51.82  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.28 | 96   | 101532   | 50.35  | ug/L  | 89     |
| 13) Acetone                    | 2.32 | 43   | 202038   | 119.66 | ug/L  | 98     |
| 14) Carbon disulfide           | 2.48 | 76   | 295077   | 48.46  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.62 | 43   | 137912   | 53.38  | ug/L  | 99     |
| 16) Methylene chloride         | 2.70 | 84   | 128510   | 54.31  | ug/L  | 97     |
| 17) trans-1,2-Dichloroethene   | 2.99 | 96   | 110590   | 50.65  | ug/L  | 99     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73   | 387235   | 50.97  | ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.45 | 63   | 211418   | 50.87  | ug/L  | 100    |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96   | 128132   | 50.81  | ug/L  | 97     |
| 22) 2-Butanone                 | 4.26 | 43   | 235988   | 118.15 | ug/L  | 98     |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05048

Quant Time: Jul 06 23:16:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM062918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 06 23:15:38 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.55  | 128  | 66646    | 51.41  | ug/L  | 98       |
| 25) Chloroform                  | 4.68  | 83   | 229588   | 51.74  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.41  | 62   | 192188   | 51.68  | ug/L  | 99       |
| 29) Cyclohexane                 | 5.00  | 56   | 194219   | 49.41  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.92  | 97   | 203352   | 50.07  | ug/L  | 100      |
| 31) Carbon tetrachloride        | 5.14  | 117  | 183140   | 51.60  | ug/L  | 100      |
| 33) Benzene                     | 5.39  | 78   | 457476   | 49.61  | ug/L  | 100      |
| 34) Trichloroethene             | 6.19  | 95   | 126054   | 51.39  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.42  | 83   | 208901   | 51.04  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.44  | 63   | 126387   | 51.33  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.76  | 83   | 169021   | 51.64  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 194780   | 49.95  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 385436   | 108.65 | ug/L  | 100      |
| 42) Toluene                     | 7.64  | 91   | 514186   | 51.31  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.88  | 75   | 184352   | 50.81  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.07  | 97   | 121929   | 51.89  | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.23  | 164  | 104978   | 50.56  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.36  | 43   | 321509   | 113.92 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.48  | 129  | 143583   | 52.07  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.59  | 107  | 132059   | 50.81  | ug/L  | 100      |
| 51) Chlorobenzene               | 9.12  | 112  | 342948   | 51.35  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.25  | 91   | 581829   | 51.62  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.38  | 106  | 226949   | 52.03  | ug/L  | 97       |
| 54) o-xylene                    | 9.78  | 106  | 227718   | 52.05  | ug/L  | 100      |
| 55) Styrene                     | 9.80  | 104  | 375738   | 52.40  | ug/L  | 98       |
| 56) Isopropylbenzene            | 10.17 | 105  | 603840   | 52.55  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.46 | 83   | 207012   | 52.79  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 10.50 | 75   | 171869   | 53.84  | ug/L  | 99       |
| 61) Bromoform                   | 9.96  | 173  | 108298   | 51.16  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.42 | 146  | 273336   | 50.60  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.51 | 146  | 273930   | 50.41  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.88 | 146  | 284111   | 49.82  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.66 | 75   | 49949    | 52.93  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.89 | 180  | 208345   | 51.95  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.51 | 180  | 171396   | 51.12  | ug/L  | 98       |
| 69) Naphthalene                 | 13.75 | 128  | 551298   | 49.45  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.99 | 180  | 181525   | 50.40  | ug/L  | 100      |

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

