

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011420\  
 Data File : VU036460.D  
 Acq On : 14 Jan 2020 23:39  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05039

Quant Time: Jan 15 00:45:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM011420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 15 00:18:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 474545   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 453392   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 202428   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 177199   | 57.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 115.18% |
| 7) Chloroethane-d5             | 1.93    | 69    | 149486   | 56.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 112.26% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 325273   | 55.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 110.12% |
| 21) 2-Butanone-d5              | 4.68    | 46    | 273039   | 103.22   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.22% |
| 24) Chloroform-d               | 5.11    | 84    | 334723   | 54.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 109.30% |
| 26) 1,2-Dichloroethane-d4      | 5.75    | 65    | 223514   | 54.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 109.78% |
| 32) Benzene-d6                 | 5.77    | 84    | 652797   | 55.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 110.10% |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 214259   | 55.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 111.12% |
| 41) Toluene-d8                 | 7.93    | 98    | 611563   | 54.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 109.06% |
| 43) trans-1,3-Dichloropropene- | 8.21    | 79    | 112666   | 54.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 108.46% |
| 47) 2-Hexanone-d5              | 8.67    | 63    | 212025   | 107.29   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.29% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78   | 84    | 309908   | 53.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.86% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 215641   | 54.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 108.16% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 214021   | 48.666 | ug/L  | 99     |
| 3) Chloromethane               | 1.54 | 50   | 188947   | 47.714 | ug/L  | 99     |
| 5) Vinyl chloride              | 1.62 | 62   | 195484   | 49.734 | ug/L  | 98     |
| 6) Bromomethane                | 1.87 | 94   | 119656   | 50.061 | ug/L  | 97     |
| 8) Chloroethane                | 1.95 | 64   | 112582   | 48.419 | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 2.16 | 101  | 266275   | 49.738 | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101  | 142750   | 50.433 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.61 | 96   | 139697   | 49.807 | ug/L  | 93     |
| 13) Acetone                    | 2.66 | 43   | 176755   | 61.742 | ug/L  | 99     |
| 14) Carbon disulfide           | 2.82 | 76   | 445699   | 49.132 | ug/L  | 99     |
| 15) Methyl Acetate             | 2.99 | 43   | 192414   | 50.260 | ug/L  | 99     |
| 16) Methylene chloride         | 3.08 | 84   | 168763   | 48.906 | ug/L  | 95     |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96   | 150177   | 48.838 | ug/L  | 96     |
| 18) Methyl tert-butyl Ether    | 3.41 | 73   | 537668   | 51.309 | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.92 | 63   | 293807   | 50.611 | ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 4.72 | 96   | 179168   | 50.820 | ug/L  | 99     |
| 22) 2-Butanone                 | 4.76 | 43   | 281688   | 86.706 | ug/L  | 99     |

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 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05039

Quant Time: Jan 15 00:45:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM011420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 15 00:18:03 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 87968    | 51.648 | ug/L  | 98       |
| 25) Chloroform                  | 5.13  | 83   | 315346   | 50.936 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 254171   | 51.835 | ug/L  | 98       |
| 29) Cyclohexane                 | 5.43  | 56   | 271161   | 49.865 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 5.36  | 97   | 274623   | 51.000 | ug/L  | 100      |
| 31) Carbon tetrachloride        | 5.56  | 117  | 239671   | 51.932 | ug/L  | 97       |
| 33) Benzene                     | 5.82  | 78   | 660841   | 50.725 | ug/L  | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 180999   | 51.451 | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.80  | 83   | 272908   | 50.388 | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 173513   | 50.252 | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.14  | 83   | 238640   | 50.220 | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 287900   | 51.504 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.83  | 43   | 550160   | 99.046 | ug/L  | 100      |
| 42) Toluene                     | 8.00  | 91   | 706899   | 49.957 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 257277   | 49.686 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 167906   | 50.875 | ug/L  | 96       |
| 46) Tetrachloroethene           | 8.58  | 164  | 120551   | 50.944 | ug/L  | 94       |
| 48) 2-Hexanone                  | 8.72  | 43   | 431670   | 98.260 | ug/L  | 96       |
| 49) Dibromochloromethane        | 8.84  | 129  | 189956   | 51.742 | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 190719   | 50.977 | ug/L  | 99       |
| 51) Chlorobenzene               | 9.47  | 112  | 448040   | 50.354 | ug/L  | 99       |
| 52) Ethylbenzene                | 9.60  | 91   | 791178   | 50.060 | ug/L  | 98       |
| 53) m,p-Xylene                  | 9.72  | 106  | 298129   | 50.443 | ug/L  | 95       |
| 54) o-xylene                    | 10.13 | 106  | 292967   | 49.654 | ug/L  | 95       |
| 55) Styrene                     | 10.14 | 104  | 490430   | 51.251 | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.51 | 105  | 761074   | 50.258 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 277732   | 48.391 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 236037   | 49.572 | ug/L  | 98       |
| 61) Bromoform                   | 10.32 | 173  | 135538   | 49.166 | ug/L  | 96       |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 313242   | 49.142 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 308370   | 48.146 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 315288   | 50.146 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 65465    | 47.348 | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 185550   | 48.138 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.86 | 180  | 134273   | 47.270 | ug/L  | 97       |
| 69) Naphthalene                 | 14.10 | 128  | 432060   | 45.013 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.35 | 180  | 143140   | 48.574 | ug/L  | 98       |

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

