

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031220\  
 Data File : VU037189.D  
 Acq On : 12 Mar 2020 14:56  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV32

Quant Time: Mar 13 07:33:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 13 07:30:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 430514   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 425304   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 212835   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 167305   | 50.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 100.42% |
| 7) Chloroethane-d5             | 1.93    | 69    | 135507   | 50.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 100.88% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 311343   | 50.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.86% |
| 21) 2-Butanone-d5              | 4.67    | 46    | 272572   | 103.37   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.37% |
| 24) Chloroform-d               | 5.11    | 84    | 329344   | 51.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.82% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 234570   | 50.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.06% |
| 32) Benzene-d6                 | 5.76    | 84    | 593863   | 50.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.46% |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 192395   | 50.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.40% |
| 41) Toluene-d8                 | 7.92    | 98    | 568243   | 50.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.54% |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 104147   | 49.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.86%  |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 204623   | 103.13   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.13% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 287003   | 48.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.70%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 220943   | 50.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.10% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 216031 | 49.103 | ug/L 98  |
| 3) Chloromethane               | 1.54 | 50  | 184679 | 51.326 | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 201294 | 51.050 | ug/L 100 |
| 6) Bromomethane                | 1.87 | 94  | 89528  | 59.150 | ug/L 98  |
| 8) Chloroethane                | 1.95 | 64  | 113897 | 49.305 | ug/L 98  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 299848 | 49.805 | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 140573 | 49.995 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 128280 | 50.490 | ug/L 97  |
| 13) Acetone                    | 2.65 | 43  | 239904 | 95.895 | ug/L 99  |
| 14) Carbon disulfide           | 2.82 | 76  | 361404 | 50.172 | ug/L 98  |
| 15) Methyl Acetate             | 2.98 | 43  | 200714 | 51.010 | ug/L 98  |
| 16) Methylene chloride         | 3.08 | 84  | 157675 | 49.720 | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 133160 | 50.025 | ug/L 96  |
| 18) Methyl tert-butyl Ether    | 3.40 | 73  | 524868 | 51.059 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 297420 | 49.934 | ug/L 98  |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 161744 | 50.236 | ug/L 99  |
| 22) 2-Butanone                 | 4.75 | 43  | 314332 | 99.342 | ug/L 98  |

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 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 13 07:30:58 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 81289    | 50.065  | uq/L  | 96       |
| 25) Chloroform                  | 5.13  | 83   | 316097   | 49.077  | uq/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 285015   | 49.665  | uq/L  | 99       |
| 29) Cyclohexane                 | 5.43  | 56   | 254060   | 50.529  | uq/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 5.36  | 97   | 282891   | 50.112  | uq/L  | 99       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 249346   | 49.990  | uq/L  | 100      |
| 33) Benzene                     | 5.81  | 78   | 628884   | 50.166  | uq/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 163628   | 50.231  | uq/L  | 99       |
| 35) Methylcyclohexane           | 6.79  | 83   | 253825   | 51.467  | uq/L  | 97       |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 175613   | 49.283  | uq/L  | 99       |
| 38) Bromodichloromethane        | 7.13  | 83   | 245585   | 49.297  | uq/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.63  | 75   | 274328   | 49.651  | uq/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 589601   | 101.645 | uq/L  | 99       |
| 42) Toluene                     | 8.00  | 91   | 685721   | 50.091  | uq/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 8.23  | 75   | 270653   | 51.882  | uq/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 8.42  | 97   | 161057   | 49.639  | uq/L  | 98       |
| 46) Tetrachloroethene           | 8.57  | 164  | 121703   | 50.289  | uq/L  | 98       |
| 48) 2-Hexanone                  | 8.71  | 43   | 480753   | 105.170 | uq/L  | 99       |
| 49) Dibromochloromethane        | 8.83  | 129  | 190101   | 49.802  | uq/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 173786   | 49.633  | uq/L  | 97       |
| 51) Chlorobenzene               | 9.47  | 112  | 425929   | 49.473  | uq/L  | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 782479   | 49.364  | uq/L  | 98       |
| 53) m,p-Xylene                  | 9.71  | 106  | 283645   | 50.592  | uq/L  | 98       |
| 54) o-xylene                    | 10.12 | 106  | 278714   | 50.317  | uq/L  | 95       |
| 55) Styrene                     | 10.13 | 104  | 483782   | 51.502  | uq/L  | 99       |
| 56) Isopropylbenzene            | 10.50 | 105  | 769236   | 49.963  | uq/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 293399   | 49.540  | uq/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 246175   | 49.699  | uq/L  | 99       |
| 61) Bromoform                   | 10.31 | 173  | 147624   | 49.660  | uq/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 339322   | 50.300  | uq/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 338781   | 49.688  | uq/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 338185   | 49.083  | uq/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 76396    | 50.293  | uq/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 244598   | 49.753  | uq/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 205303   | 53.479  | uq/L  | 99       |
| 69) Naphthalene                 | 14.11 | 128  | 322245   | 55.350  | uq/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 218300   | 54.187  | uq/L  | 97       |

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

