

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032019\  
 Data File : VU030224.D  
 Acq On : 20 Mar 2019 15:54  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05048

Quant Time: Mar 22 01:05:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 22 01:01:18 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 569101   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 556120   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 288924   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 152702   | 39.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 79.36% |
| 7) Chloroethane-d5             | 1.68    | 69    | 127663   | 41.49    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 82.98% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 299446   | 42.65    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.30% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 263334   | 92.24    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.24% |
| 24) Chloroform-d               | 4.65    | 84    | 304191   | 43.07    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.14% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 173804   | 43.15    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.30% |
| 32) Benzene-d6                 | 5.34    | 84    | 626449   | 42.75    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.50% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 196234   | 43.28    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 86.56% |
| 41) Toluene-d8                 | 7.56    | 98    | 587503   | 42.64    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.28% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 96613    | 43.76    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.52% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 218545   | 92.94    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.94% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 313186   | 45.03    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.06% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 248510   | 42.84    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.68% |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 242930 | 50.418  | ug/L 100 |
| 3) Chloromethane               | 1.33 | 50  | 235147 | 50.418  | ug/L 100 |
| 5) Vinyl chloride              | 1.40 | 62  | 254995 | 51.504  | ug/L 100 |
| 6) Bromomethane                | 1.62 | 94  | 142278 | 53.103  | ug/L 99  |
| 8) Chloroethane                | 1.70 | 64  | 147810 | 50.495  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 325869 | 51.828  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 197156 | 51.568  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 194674 | 51.273  | ug/L 93  |
| 13) Acetone                    | 2.32 | 43  | 275912 | 92.491  | ug/L 99  |
| 14) Carbon disulfide           | 2.48 | 76  | 564392 | 49.769  | ug/L 99  |
| 15) Methyl Acetate             | 2.61 | 43  | 225133 | 51.897  | ug/L 99  |
| 16) Methylene chloride         | 2.70 | 84  | 221422 | 51.420  | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 204788 | 51.181  | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 613017 | 53.260  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 359395 | 52.221  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 233795 | 53.330  | ug/L 98  |
| 22) 2-Butanone                 | 4.26 | 43  | 358370 | 102.215 | ug/L 97  |

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 ALS Vial : 10 Sample Multiplier: 1

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 MSVOA\_U  
 ClientSampleId :  
 VSTD05048

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 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 22 01:01:18 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.55  | 128  | 122461   | 52.193  | ug/L  | 98       |
| 25) Chloroform                  | 4.67  | 83   | 371042   | 51.749  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.40  | 62   | 261952   | 51.545  | ug/L  | 98       |
| 29) Cyclohexane                 | 4.99  | 56   | 324008   | 53.622  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane       | 4.91  | 97   | 314717   | 52.511  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.13  | 117  | 283795   | 53.487  | ug/L  | 97       |
| 33) Benzene                     | 5.39  | 78   | 855372   | 53.311  | ug/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 218800   | 51.738  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.41  | 83   | 352885   | 53.214  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 219267   | 53.360  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.75  | 83   | 280068   | 53.010  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 351788   | 53.359  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 590941   | 104.638 | ug/L  | 99       |
| 42) Toluene                     | 7.63  | 91   | 941064   | 53.887  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.87  | 75   | 308525   | 54.081  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.06  | 97   | 221206   | 52.442  | ug/L  | 100      |
| 46) Tetrachloroethene           | 8.23  | 164  | 188028   | 52.624  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.36  | 43   | 485172   | 103.507 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.47  | 129  | 247401   | 52.304  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 245286   | 52.451  | ug/L  | 100      |
| 51) Chlorobenzene               | 9.12  | 112  | 599897   | 51.921  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.25  | 91   | 1011442  | 53.331  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.37  | 106  | 396708   | 54.292  | ug/L  | 99       |
| 54) o-xylene                    | 9.77  | 106  | 390830   | 54.412  | ug/L  | 99       |
| 55) Styrene                     | 9.79  | 104  | 665868   | 54.714  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.16 | 105  | 1004065  | 54.068  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.45 | 83   | 377474   | 52.481  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 283642   | 51.072  | ug/L  | 100      |
| 61) Bromoform                   | 9.95  | 173  | 197644   | 52.972  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 475969   | 51.635  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 481793   | 50.388  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.87 | 146  | 487421   | 51.754  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 81141    | 51.531  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 377010   | 52.332  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 325049   | 51.022  | ug/L  | 100      |
| 69) Naphthalene                 | 13.74 | 128  | 1014020  | 50.168  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 341804   | 51.419  | ug/L  | 98       |

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

