

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\  
 Data File : VU031986.D  
 Acq On : 14 May 2019 11:55  
 Operator : JC/SP  
 Sample : VSTD20054  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD20054

Quant Time: May 15 01:49:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM051419WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 15 01:44:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 1115659  | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 1151006  | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 566075   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |       |
|--------------------------------|-------|-----|---------|--------|------|-------|
| 4) Vinyl Chloride-d3           | 1.40  | 65  | 1821315 | 194.66 | ug/L | 0.00  |
| 7) Chloroethane-d5             | 1.65  | 69  | 1457552 | 198.61 | ug/L | -0.02 |
| 11) 1,1-Dichloroethene-d2      | 2.26  | 63  | 3278644 | 179.44 | ug/L | 0.00  |
| 21) 2-Butanone-d5              | 4.17  | 46  | 2854932 | 353.72 | ug/L | 0.00  |
| 24) Chloroform-d               | 4.64  | 84  | 3121949 | 185.33 | ug/L | 0.00  |
| 26) 1,2-Dichloroethane-d4      | 5.30  | 65  | 1938501 | 177.81 | ug/L | 0.00  |
| 32) Benzene-d6                 | 5.33  | 84  | 6477841 | 185.41 | ug/L | 0.00  |
| 36) 1,2-Dichloropropane-d6     | 6.32  | 67  | 2143589 | 177.13 | ug/L | 0.00  |
| 41) Toluene-d8                 | 7.56  | 98  | 6050755 | 198.63 | ug/L | 0.00  |
| 43) trans-1,3-Dichloropropene- | 7.84  | 79  | 1052765 | 202.56 | ug/L | 0.00  |
| 47) 2-Hexanone-d5              | 8.31  | 63  | 2161917 | 415.59 | ug/L | 0.00  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84  | 3331461 | 201.50 | ug/L | 0.00  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85 | 152 | 2288237 | 192.03 | ug/L | 0.00  |

## Target Compounds

|                                |      |     |         |         |      | Qvalue |
|--------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 1812537 | 152.740 | ug/L | 99     |
| 3) Chloromethane               | 1.32 | 50  | 2007029 | 141.501 | ug/L | 100    |
| 5) Vinyl chloride              | 1.40 | 62  | 2171706 | 161.033 | ug/L | 99     |
| 6) Bromomethane                | 1.60 | 94  | 1084580 | 151.900 | ug/L | 97     |
| 8) Chloroethane                | 1.68 | 64  | 1243466 | 167.116 | ug/L | 100    |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 2407399 | 157.140 | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 1464566 | 166.263 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 1499423 | 174.321 | ug/L | 93     |
| 13) Acetone                    | 2.32 | 43  | 2246185 | 248.583 | ug/L | 98     |
| 14) Carbon disulfide           | 2.47 | 76  | 4858359 | 171.053 | ug/L | 99     |
| 15) Methyl Acetate             | 2.61 | 43  | 1931510 | 141.397 | ug/L | # 100  |
| 16) Methylene chloride         | 2.69 | 84  | 1794307 | 175.828 | ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 2.97 | 96  | 1608432 | 178.882 | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 2.99 | 73  | 5190332 | 182.862 | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 3088896 | 166.309 | ug/L | 100    |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96  | 1818719 | 188.141 | ug/L | 100    |
| 22) 2-Butanone                 | 4.25 | 43  | 3165550 | 315.011 | ug/L | 98     |
| 23) Bromochloromethane         | 4.54 | 128 | 845728  | 179.215 | ug/L | 98     |
| 25) Chloroform                 | 4.67 | 83  | 3022597 | 169.342 | ug/L | 97     |
| 27) 1,2-Dichloroethane         | 5.40 | 62  | 2382081 | 165.060 | ug/L | 99     |
| 29) Cyclohexane                | 4.99 | 56  | 2940343 | 168.277 | ug/L | 99     |
| 30) 1,1,1-Trichloroethane      | 4.91 | 97  | 2445782 | 157.321 | ug/L | 99     |
| 31) Carbon tetrachloride       | 5.13 | 117 | 2065493 | 156.075 | ug/L | 98     |
| 33) Benzene                    | 5.38 | 78  | 7012379 | 169.426 | ug/L | 100    |
| 34) Trichloroethene            | 6.18 | 95  | 1763022 | 175.816 | ug/L | 100    |
| 35) Methylcyclohexane          | 6.41 | 83  | 2929840 | 193.095 | ug/L | 99     |
| 37) 1,2-Dichloropropane        | 6.43 | 63  | 1885718 | 162.123 | ug/L | 100    |
| 38) Bromodichloromethane       | 6.75 | 83  | 2351876 | 167.059 | ug/L | 100    |
| 39) cis-1,3-Dichloropropene    | 7.26 | 75  | 3055730 | 194.769 | ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 7.46 | 43  | 5882367 | 334.184 | ug/L | 99     |

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 VSTD20054

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 QLast Update : Wed May 15 01:44:17 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.63  | 91   | 7655784  | 184.442 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 2686011  | 191.048 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 1756960  | 180.971 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.22  | 164  | 1244876  | 179.903 | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.36  | 43   | 4792519  | 338.207 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.47  | 129  | 1856879  | 184.875 | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 1897018  | 184.025 | ug/L  | 100      |
| 51) Chlorobenzene              | 9.12  | 112  | 4710230  | 190.495 | ug/L  | 100      |
| 52) Ethylbenzene               | 9.24  | 91   | 8579798  | 198.572 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.37  | 106  | 3191543  | 207.988 | ug/L  | 100      |
| 54) o-xylene                   | 9.77  | 106  | 3185718  | 211.196 | ug/L  | 98       |
| 55) Styrene                    | 9.79  | 104  | 5656697  | 220.152 | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.16 | 105  | 8291745  | 210.597 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 3304649  | 190.619 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 2570102  | 183.536 | ug/L  | 100      |
| 61) Bromoform                  | 9.95  | 173  | 1432982  | 174.488 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 3623806  | 193.812 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 3644303  | 187.587 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 3668711  | 184.664 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 720837   | 162.357 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 2631988  | 188.302 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 2305761  | 209.134 | ug/L  | 99       |
| 69) Naphthalene                | 13.74 | 128  | 8285224  | 219.485 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 2340443  | 186.649 | ug/L  | 99       |

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

