

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\  
 Data File : VU034765.D  
 Acq On : 24 Sep 2019 12:09  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05043

Quant Time: Sep 25 02:58:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 24 03:36:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 486731   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 458680   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 221933   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 197871   | 39.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 79.42%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 166409   | 43.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.42%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 352098   | 41.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.46%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 372563   | 97.56    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.56%  |
| 24) Chloroform-d               | 4.62    | 84    | 339762   | 46.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 229636   | 43.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.24%  |
| 32) Benzene-d6                 | 5.32    | 84    | 688141   | 48.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 244579   | 49.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.44%  |
| 41) Toluene-d8                 | 7.54    | 98    | 665095   | 49.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.34%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 111251   | 46.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.50%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 250492   | 100.37   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.37% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 333329   | 48.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.68%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 228321   | 49.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.12%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 209465 | 41.754 | ug/L 99  |
| 3) Chloromethane               | 1.32 | 50  | 258522 | 43.022 | ug/L 99  |
| 5) Vinyl chloride              | 1.40 | 62  | 243784 | 44.419 | ug/L 97  |
| 6) Bromomethane                | 1.62 | 94  | 140392 | 46.837 | ug/L 93  |
| 8) Chloroethane                | 1.69 | 64  | 142178 | 44.999 | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 304518 | 44.005 | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 153765 | 46.343 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 148160 | 46.525 | ug/L 92  |
| 13) Acetone                    | 2.31 | 43  | 275077 | 61.921 | ug/L 99  |
| 14) Carbon disulfide           | 2.46 | 76  | 478593 | 44.541 | ug/L 100 |
| 15) Methyl Acetate             | 2.60 | 43  | 263803 | 44.455 | ug/L 98  |
| 16) Methylene chloride         | 2.68 | 84  | 183283 | 45.436 | ug/L 93  |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 165724 | 47.598 | ug/L 90  |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 575927 | 44.587 | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 351182 | 43.968 | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 194082 | 47.674 | ug/L 90  |
| 22) 2-Butanone                 | 4.23 | 43  | 409139 | 77.415 | ug/L 98  |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 89723    | 46.046 | ug/L  | 93       |
| 25) Chloroform                 | 4.65  | 83   | 335965   | 42.715 | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 279422   | 41.126 | ug/L  | 97       |
| 29) Cyclohexane                | 4.97  | 56   | 334315   | 44.158 | ug/L  | 96       |
| 30) 1,1,1-Trichloroethane      | 4.89  | 97   | 273009   | 43.732 | ug/L  | 97       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 236028   | 44.362 | ug/L  | 97       |
| 33) Benzene                    | 5.36  | 78   | 769276   | 48.357 | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 187087   | 47.619 | ug/L  | 96       |
| 35) Methylcyclohexane          | 6.39  | 83   | 312279   | 46.838 | ug/L  | 95       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 219203   | 46.276 | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.73  | 83   | 258188   | 44.945 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 332188   | 46.673 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 784220   | 86.717 | ug/L  | 95       |
| 42) Toluene                    | 7.61  | 91   | 822241   | 47.826 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 296427   | 46.199 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.04  | 97   | 180722   | 47.631 | ug/L  | 96       |
| 46) Tetrachloroethene          | 8.21  | 164  | 132039   | 47.779 | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.34  | 43   | 597104   | 84.538 | ug/L  | 96       |
| 49) Dibromochloromethane       | 8.45  | 129  | 200028   | 47.297 | ug/L  | 95       |
| 50) 1,2-Dibromoethane          | 8.56  | 107  | 200197   | 48.957 | ug/L  | 99       |
| 51) Chlorobenzene              | 9.10  | 112  | 509066   | 48.709 | ug/L  | 96       |
| 52) Ethylbenzene               | 9.23  | 91   | 911661   | 47.090 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.35  | 106  | 336303   | 49.044 | ug/L  | 99       |
| 54) o-xylene                   | 9.76  | 106  | 330501   | 48.729 | ug/L  | 97       |
| 55) Styrene                    | 9.77  | 104  | 566239   | 49.322 | ug/L  | 98       |
| 56) Isopropylbenzene           | 10.14 | 105  | 867128   | 47.416 | ug/L  | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.43 | 83   | 341797   | 46.901 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.47 | 75   | 258859   | 43.754 | ug/L  | 97       |
| 61) Bromoform                  | 9.94  | 173  | 139012   | 45.494 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.39 | 146  | 372168   | 48.423 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.48 | 146  | 375650   | 47.980 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 369042   | 47.522 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.63 | 75   | 73642    | 44.614 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.86 | 180  | 252032   | 48.942 | ug/L  | 96       |
| 68) 1,2,4-trichlorobenzene     | 13.48 | 180  | 214662   | 53.009 | ug/L  | 99       |
| 69) Naphthalene                | 13.72 | 128  | 755452   | 53.888 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.96 | 180  | 211041   | 50.648 | ug/L  | 96       |

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

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