

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU031825\  
 Data File : VU063299.D  
 Acq On : 18 Mar 2025 11:10  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050104

Quant Time: Mar 24 12:30:24 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM031725WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 24 12:29:15 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) 1,4-Difluorobenzene     | 6.238  | 114  | 277077   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.409  | 117  | 272282   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.804 | 152  | 138219   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                               |         |       |          |          |      |         |
|-------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3          | 1.592   | 65    | 103861   | 44.88    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =    | 89.76%  |
| 7) Chloroethane-d5            | 1.891   | 69    | 88797    | 46.68    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =    | 93.36%  |
| 11) 1,1-Dichloroethene-d2     | 2.554   | 63    | 192872   | 47.57    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =    | 95.14%  |
| 21) 2-Butanone-d5             | 4.611   | 46    | 161624   | 96.73    | ug/L | 0.00    |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =    | 96.73%  |
| 24) Chloroform-d              | 5.049   | 84    | 206726   | 47.78    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 95.56%  |
| 26) 1,2-Dichloroethane-d4     | 5.689   | 65    | 127021   | 47.09    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 94.18%  |
| 32) Benzene-d6                | 5.714   | 84    | 410469   | 48.05    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 96.10%  |
| 36) 1,2-Dichloropropane-d6    | 6.679   | 67    | 132271   | 47.60    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =    | 95.20%  |
| 41) Toluene-d8                | 7.888   | 98    | 375074   | 49.39    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =    | 98.78%  |
| 43) trans-1,3-Dichloroprop... | 8.171   | 79    | 59200    | 48.11    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =    | 96.22%  |
| 47) 2-Hexanone-d5             | 8.621   | 63    | 109642   | 104.01   | ug/L | 0.00    |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =    | 104.01% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.746  | 84    | 201090   | 48.18    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =    | 96.36%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.184  | 152   | 130245   | 46.60    | ug/L | 0.00    |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =    | 93.20%  |

## Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.380 | 85  | 122717 | 52.88  | ug/L   | 99     |
| 3) Chloromethane              | 1.518 | 50  | 127416 | 48.95  | ug/L   | 100    |
| 5) Vinyl chloride             | 1.599 | 62  | 133601 | 50.37  | ug/L   | 99     |
| 6) Bromomethane               | 1.830 | 94  | 69195  | 46.44  | ug/L   | 100    |
| 8) Chloroethane               | 1.914 | 64  | 80160  | 49.48  | ug/L   | 99     |
| 9) Trichlorofluoromethane     | 2.123 | 101 | 162271 | 52.97  | ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.563 | 101 | 102506 | 54.73  | ug/L   | 98     |
| 12) 1,1-Dichloroethene        | 2.567 | 96  | 92806  | 51.73  | ug/L   | 90     |
| 13) Acetone                   | 2.615 | 43  | 115182 | 101.51 | ug/L   | 99     |
| 14) Carbon disulfide          | 2.779 | 76  | 291226 | 50.94  | ug/L   | 99     |
| 15) Methyl Acetate            | 2.936 | 43  | 124673 | 50.14  | ug/L # | 100    |
| 16) Methylene chloride        | 3.030 | 84  | 112854 | 51.26  | ug/L   | 95     |
| 17) trans-1,2-Dichloroethene  | 3.338 | 96  | 95295  | 50.18  | ug/L   | 96     |
| 18) Methyl tert-butyl Ether   | 3.351 | 73  | 309993 | 51.08  | ug/L   | 99     |
| 19) 1,1-Dichloroethane        | 3.853 | 63  | 197555 | 50.78  | ug/L   | 98     |
| 20) cis-1,2-Dichloroethene    | 4.650 | 96  | 112129 | 51.45  | ug/L   | 98     |
| 22) 2-Butanone                | 4.689 | 43  | 175506 | 106.55 | ug/L   | 96     |
| 23) Bromochloromethane        | 4.959 | 128 | 57456  | 51.43  | ug/L   | 99     |
| 25) Chloroform                | 5.074 | 83  | 201665 | 51.50  | ug/L   | 98     |

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 Sample : VSTDCCC050  
 Misc : 5mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050104

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 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 24 12:29:15 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.779  | 62   | 163016   | 53.01  | ug/L  | 100      |
| 29) Cyclohexane               | 5.374  | 56   | 168032   | 53.11  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.303  | 97   | 163627   | 51.50  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.512  | 117  | 138561   | 52.36  | ug/L  | 99       |
| 33) Benzene                   | 5.759  | 78   | 448684   | 52.26  | ug/L  | 100      |
| 34) Trichloroethene           | 6.531  | 95   | 114586   | 52.38  | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.753  | 83   | 172684   | 55.29  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.779  | 63   | 123233   | 51.21  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.094  | 83   | 151425   | 51.17  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.595  | 75   | 180332   | 51.16  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.779  | 43   | 333962   | 106.72 | ug/L  | 100      |
| 42) Toluene                   | 7.959  | 91   | 478544   | 53.88  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.200  | 75   | 170395   | 52.31  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.389  | 97   | 115878   | 50.72  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.544  | 164  | 84233    | 54.55  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.672  | 43   | 259812   | 108.90 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.798  | 129  | 113917   | 51.40  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.914  | 107  | 123140   | 51.61  | ug/L  | 99       |
| 51) Chlorobenzene             | 9.438  | 112  | 292115   | 52.24  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.560  | 91   | 498936   | 53.68  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.685  | 106  | 190548   | 55.49  | ug/L  | 97       |
| 54) o-Xylene                  | 10.090 | 106  | 181546   | 54.24  | ug/L  | 98       |
| 55) Styrene                   | 10.103 | 104  | 313697   | 56.77  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.772 | 83   | 205096   | 51.63  | ug/L  | 98       |
| 59) Bromoform                 | 10.280 | 173  | 91860    | 50.39  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.811 | 75   | 160323   | 49.98  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.473 | 105  | 484358   | 53.43  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 386855   | 54.08  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.460 | 105  | 377972   | 55.10  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.737 | 146  | 222556   | 52.02  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.827 | 146  | 222748   | 51.25  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.203 | 146  | 219667   | 50.92  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.987 | 75   | 41706    | 49.84  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 151612   | 52.66  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.833 | 180  | 113652   | 51.06  | ug/L  | 100      |
| 71) Naphthalene               | 14.081 | 128  | 308000   | 50.29  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 114520   | 52.65  | ug/L  | 97       |

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

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