

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121121\  
 Data File : VU046278.D  
 Acq On : 11 Dec 2021 11:53  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050136

Quant Time: Dec 12 01:37:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 03 05:08:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 208137   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 209609   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.816  | 152   | 118280   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 70458    | 41.095   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 82.180%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 59093    | 44.890   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 89.780%  |
| 11) 1,1-Dichloroethene-d2     | 2.575   | 63    | 135495   | 44.022   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.040%  |
| 21) 2-Butanone-d5             | 4.642   | 46    | 151371   | 111.060  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 111.060% |
| 24) Chloroform-d              | 5.067   | 84    | 151796   | 53.017   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 106.040% |
| 26) 1,2-Dichloroethane-d4     | 5.706   | 65    | 97338    | 50.657   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.320% |
| 32) Benzene-d6                | 5.732   | 84    | 293025   | 48.774   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.540%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 94059    | 50.517   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 101.040% |
| 41) Toluene-d8                | 7.903   | 98    | 266785   | 48.772   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.540%  |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 48356    | 53.800   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 107.600% |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 113257   | 128.293  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 128.290% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 157005   | 55.603   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 111.200% |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 114381   | 50.214   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 100.420% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.388   | 85    | 93557    | 41.315   | ug/L   | 100      |
| 3) Chloromethane              | 1.523   | 50    | 82857    | 40.908   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.607   | 62    | 92299    | 45.195   | ug/L   | 100      |
| 6) Bromomethane               | 1.864   | 94    | 58712    | 50.722   | ug/L   | 100      |
| 8) Chloroethane               | 1.938   | 64    | 56325    | 47.634   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 2.144   | 101   | 130420   | 48.915   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.588   | 101   | 83571    | 55.181   | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 2.584   | 96    | 73274    | 50.915   | ug/L   | 95       |
| 13) Acetone                   | 2.658   | 43    | 150352   | 88.265   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.800   | 76    | 185716   | 41.594   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.961   | 43    | 95951    | 48.320   | ug/L   | 96       |
| 16) Methylene chloride        | 3.051   | 84    | 88506    | 51.690   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 80848    | 53.085   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.369   | 73    | 271251   | 57.791   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.877   | 63    | 153890   | 55.573   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 93722    | 56.714   | ug/L   | 97       |
| 22) 2-Butanone                | 4.723   | 43    | 176426   | 95.143   | ug/L   | 97       |
| 23) Bromochloromethane        | 4.980   | 128   | 49276    | 59.039   | ug/L   | 92       |
| 25) Chloroform                | 5.092   | 83    | 168389   | 54.730   | ug/L   | 99       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050136

Quant Time: Dec 12 01:37:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 03 05:08:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.800  | 62   | 122713   | 53.748  | ug/L   | 99       |
| 29) Cyclohexane               | 5.395  | 56   | 118549   | 48.571  | ug/L   | 96       |
| 30) 1,1,1-Trichloroethane     | 5.321  | 97   | 139833   | 54.347  | ug/L   | 100      |
| 31) Carbon tetrachloride      | 5.530  | 117  | 121701   | 55.716  | ug/L   | 98       |
| 33) Benzene                   | 5.777  | 78   | 342223   | 53.944  | ug/L   | 100      |
| 34) Trichloroethene           | 6.546  | 95   | 91737    | 54.890  | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.768  | 83   | 132025   | 50.947  | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 6.796  | 63   | 92860    | 55.877  | ug/L   | 100      |
| 38) Bromodichloromethane      | 7.108  | 83   | 129282   | 58.528  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 145759   | 57.653  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.796  | 43   | 271400   | 111.152 | ug/L   | 98       |
| 42) Toluene                   | 7.973  | 91   | 377812   | 55.501  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 140218   | 56.469  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 8.404  | 97   | 95544    | 57.305  | ug/L   | 99       |
| 46) Tetrachloroethene         | 8.555  | 164  | 68440    | 55.724  | ug/L   | 96       |
| 48) 2-Hexanone                | 8.687  | 43   | 229191   | 104.957 | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.812  | 129  | 108315   | 61.865  | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.928  | 107  | 98619    | 54.557  | ug/L # | 98       |
| 51) Chlorobenzene             | 9.449  | 112  | 248911   | 56.519  | ug/L   | 99       |
| 52) Ethylbenzene              | 9.574  | 91   | 418402   | 57.111  | ug/L   | 98       |
| 53) m,p-Xylene                | 9.697  | 106  | 166027   | 58.110  | ug/L   | 97       |
| 54) o-xylene                  | 10.105 | 106  | 159639   | 57.583  | ug/L   | 96       |
| 55) Styrene                   | 10.118 | 104  | 289508   | 61.166  | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 161650   | 56.551  | ug/L   | 99       |
| 59) Bromoform                 | 10.295 | 173  | 82499    | 59.456  | ug/L   | 99       |
| 60) 1,2,3-Trichloropropane    | 10.825 | 75   | 134469   | 51.862  | ug/L   | 99       |
| 61) Isopropylbenzene          | 10.488 | 105  | 427092   | 55.497  | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 368580   | 57.460  | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.472 | 105  | 374915   | 58.419  | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 203157   | 55.574  | ug/L   | 100      |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 206810   | 54.740  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 202554   | 55.023  | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 39465    | 57.136  | ug/L   | 92       |
| 69) 1,3,5-Trichlorobenzene    | 13.221 | 180  | 156721   | 58.838  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 141714   | 59.955  | ug/L   | 99       |
| 71) Naphthalene               | 14.089 | 128  | 515321   | 62.652  | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 146858   | 60.929  | ug/L   | 99       |

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

