

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120821\  
 Data File : VU046205.D  
 Acq On : 09 Dec 2021 02:41  
 Operator : SY/MD  
 Sample : M4983-09MSD  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5N8MSD

Quant Time: Dec 09 04:38:11 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   | 209398   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 205454   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 113472   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.604   | 65    | 54265    | 31.460   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 62.920%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 43966    | 33.198   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 66.400%# |
| 11) 1,1-Dichloroethene-d2     | 2.575   | 63    | 117969   | 38.097   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 76.200%  |
| 21) 2-Butanone-d5             | 4.639   | 46    | 128090   | 93.413   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 93.410%  |
| 24) Chloroform-d              | 5.067   | 84    | 125313   | 43.504   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.706   | 65    | 79878    | 41.320   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 82.640%  |
| 32) Benzene-d6                | 5.732   | 84    | 245035   | 41.611   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 83.220%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 79271    | 43.436   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 86.880%  |
| 41) Toluene-d8                | 7.899   | 98    | 224453   | 41.863   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 83.720%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 40095    | 45.511   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.020%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 94116    | 108.767  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 108.770% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 130550   | 47.169   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 94.340%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 98319    | 44.992   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 89.980%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.388   | 85    | 95276    | 41.821   | ug/L   | 99       |
| 3) Chloromethane              | 1.523   | 50    | 81366    | 39.930   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.607   | 62    | 88140    | 42.898   | ug/L   | 98       |
| 6) Bromomethane               | 1.864   | 94    | 51490    | 44.215   | ug/L   | 98       |
| 8) Chloroethane               | 1.941   | 64    | 49191    | 41.350   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.144   | 101   | 120165   | 44.797   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.588   | 101   | 74397    | 48.828   | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 2.588   | 96    | 76781    | 53.030   | ug/L # | 78       |
| 13) Acetone                   | 2.658   | 43    | 86663    | 50.570   | ug/L   | 95       |
| 14) Carbon disulfide          | 2.800   | 76    | 193038   | 42.973   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.957   | 43    | 83781    | 41.937   | ug/L   | 96       |
| 16) Methylene chloride        | 3.051   | 84    | 79793    | 46.321   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 76715    | 50.068   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.366   | 73    | 254912   | 53.983   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.874   | 63    | 205281   | 73.685   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 123506   | 74.287   | ug/L   | 98       |
| 22) 2-Butanone                | 4.719   | 43    | 140810   | 75.479   | ug/L   | 95       |
| 23) Bromochloromethane        | 4.980   | 128   | 44242    | 52.689   | ug/L   | 91       |
| 25) Chloroform                | 5.092   | 83    | 150252   | 48.541   | ug/L   | 99       |

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Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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 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        | 5.796  | 62   | 110292   | 48.017  | ug/L   | 99       |
| 29) Cyclohexane               | 5.391  | 56   | 121320   | 50.711  | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane     | 5.321  | 97   | 483545   | 191.734 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 5.530  | 117  | 109484   | 51.136  | ug/L   | 97       |
| 33) Benzene                   | 5.777  | 78   | 313167   | 50.362  | ug/L   | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 91939    | 56.123  | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.768  | 83   | 123039   | 48.440  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 81671    | 50.138  | ug/L   | 100      |
| 38) Bromodichloromethane      | 7.108  | 83   | 111781   | 51.628  | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 133370   | 53.820  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 251278   | 104.993 | ug/L   | 98       |
| 42) Toluene                   | 7.970  | 91   | 347173   | 52.031  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 127020   | 52.188  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 86203    | 52.748  | ug/L   | 96       |
| 46) Tetrachloroethene         | 8.555  | 164  | 79810    | 66.296  | ug/L   | 96       |
| 48) 2-Hexanone                | 8.684  | 43   | 202609   | 94.660  | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.812  | 129  | 91345    | 53.227  | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 92965    | 52.469  | ug/L # | 98       |
| 51) Chlorobenzene             | 9.449  | 112  | 225155   | 52.159  | ug/L   | 99       |
| 52) Ethylbenzene              | 9.571  | 91   | 387595   | 53.976  | ug/L   | 98       |
| 53) m,p-Xylene                | 9.693  | 106  | 151316   | 54.032  | ug/L   | 97       |
| 54) o-xylene                  | 10.102 | 106  | 148873   | 54.786  | ug/L   | 95       |
| 55) Styrene                   | 10.115 | 104  | 256678   | 55.326  | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 144523   | 51.582  | ug/L   | 98       |
| 59) Bromoform                 | 10.291 | 173  | 68765    | 51.658  | ug/L   | 99       |
| 60) 1,2,3-Trichloropropane    | 10.825 | 75   | 121374   | 48.795  | ug/L   | 99       |
| 61) Isopropylbenzene          | 10.484 | 105  | 394354   | 53.414  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 334477   | 54.353  | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 337909   | 54.884  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 185414   | 52.870  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 187547   | 51.745  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 184252   | 52.172  | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 33832    | 51.056  | ug/L   | 88       |
| 69) 1,3,5-Trichlorobenzene    | 13.221 | 180  | 133995   | 52.438  | ug/L   | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 126479   | 55.777  | ug/L   | 99       |
| 71) Naphthalene               | 14.086 | 128  | 481936   | 61.076  | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 128892   | 55.741  | ug/L   | 98       |

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

