

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU102023\  
 Data File : VU055844.D  
 Acq On : 20 Oct 2023 19:51  
 Operator : MD/SY  
 Sample : 04947-03MSD  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E45J0MSD

Quant Time: Oct 23 01:10:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM101023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Oct 23 01:04:15 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.242   | 114   | 512834   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412   | 117   | 509891   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807  | 152   | 292282   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.599   | 65    | 163690   | 35.585   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 71.180%  |
| 7) Chloroethane-d5            | 1.891   | 69    | 146581   | 38.984   | ug/L   | -0.02    |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 77.960%  |
| 11) 1,1-Dichloroethene-d2     | 2.560   | 63    | 330016   | 40.236   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 80.480%  |
| 21) 2-Butanone-d5             | 4.615   | 46    | 272581   | 79.972   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 79.970%  |
| 24) Chloroform-d              | 5.055   | 84    | 377772   | 42.839   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.680%  |
| 26) 1,2-Dichloroethane-d4     | 5.695   | 65    | 238208   | 43.886   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.780%  |
| 32) Benzene-d6                | 5.721   | 84    | 711183   | 43.593   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.180%  |
| 36) 1,2-Dichloropropane-d6    | 6.685   | 67    | 228415   | 44.226   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 88.460%  |
| 41) Toluene-d8                | 7.894   | 98    | 645597   | 43.825   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 87.660%  |
| 43) trans-1,3-Dichloroprop... | 8.174   | 79    | 107498   | 43.329   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 86.660%  |
| 47) 2-Hexanone-d5             | 8.631   | 63    | 155765   | 76.717   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 76.720%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753  | 84    | 398208   | 50.090   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 100.180% |
| 66) 1,2-Dichlorobenzene-d4    | 12.190  | 152   | 277673   | 47.873   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 95.740%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.380   | 85    | 184337   | 43.169   | ug/L   | 99       |
| 3) Chloromethane              | 1.518   | 50    | 205784   | 50.931   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.602   | 62    | 221355   | 49.782   | ug/L   | 96       |
| 6) Bromomethane               | 1.830   | 94    | 82984    | 29.193   | ug/L   | 98       |
| 8) Chloroethane               | 1.914   | 64    | 140106   | 48.037   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.126   | 101   | 301971   | 47.532   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.573   | 101   | 176997   | 43.321   | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.573   | 96    | 174115   | 47.890   | ug/L   | 90       |
| 13) Acetone                   | 2.618   | 43    | 193325   | 61.120   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.785   | 76    | 481508   | 43.520   | ug/L   | 98       |
| 15) Methyl Acetate            | 2.940   | 43    | 202668   | 41.838   | ug/L   | 96       |
| 16) Methylene chloride        | 3.036   | 84    | 211394   | 47.946   | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 3.345   | 96    | 180510   | 48.554   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.354   | 73    | 638040   | 53.365   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.859   | 63    | 370745   | 48.629   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.657   | 96    | 215643   | 50.823   | ug/L   | 99       |
| 22) 2-Butanone                | 4.692   | 43    | 310194   | 81.364   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.968   | 128   | 111087   | 50.553   | ug/L   | 94       |
| 25) Chloroform                | 5.081   | 83    | 393443   | 49.400   | ug/L   | 98       |

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 Sample : 04947-03MSD  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E45J0MSD

Quant Time: Oct 23 01:10:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM101023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Oct 23 01:04:15 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.785  | 62   | 313569   | 49.226  | ug/L  | 100      |
| 29) Cyclohexane               | 5.380  | 56   | 269707   | 46.148  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.309  | 97   | 329521   | 50.022  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.518  | 117  | 277396   | 48.108  | ug/L  | 97       |
| 33) Benzene                   | 5.766  | 78   | 824057   | 51.127  | ug/L  | 100      |
| 34) Trichloroethene           | 6.538  | 95   | 219415   | 49.752  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.756  | 83   | 272472   | 42.582  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 220111   | 49.593  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.100  | 83   | 290706   | 49.668  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 349371   | 51.741  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.785  | 43   | 635751   | 102.964 | ug/L  | 97       |
| 42) Toluene                   | 7.965  | 91   | 869834   | 51.144  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 326738   | 50.573  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 223387   | 51.043  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.547  | 164  | 149054   | 47.205  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.682  | 43   | 542608   | 104.039 | ug/L  | 96       |
| 49) Dibromochloromethane      | 8.804  | 129  | 229920   | 51.417  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 238126   | 50.658  | ug/L  | 100      |
| 51) Chlorobenzene             | 9.441  | 112  | 558333   | 50.739  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.566  | 91   | 949777   | 51.080  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.689  | 106  | 364123   | 52.271  | ug/L  | 96       |
| 54) o-Xylene                  | 10.097 | 106  | 370696   | 54.992  | ug/L  | 96       |
| 55) Styrene                   | 10.110 | 104  | 653666   | 57.241  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 411129   | 54.863  | ug/L  | 99       |
| 59) Bromoform                 | 10.287 | 173  | 189106   | 52.558  | ug/L  | 97       |
| 60) 1,2,3-Trichloropropane    | 10.817 | 75   | 334477   | 52.728  | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.479 | 105  | 947006   | 51.973  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 801523   | 54.363  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 760748   | 52.181  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 466489   | 51.789  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 464388   | 50.145  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146  | 471173   | 52.711  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.994 | 75   | 82931    | 43.730  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.216 | 180  | 284597   | 47.368  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 241537   | 48.264  | ug/L  | 100      |
| 71) Naphthalene               | 14.084 | 128  | 786442   | 52.901  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 244840   | 49.621  | ug/L  | 99       |

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

