

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041023\  
 Data File : VN077286.D  
 Acq On : 10 Apr 2023 10:57  
 Operator : JC\MD  
 Sample : VN0410WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0410WBSD01

Quant Time: Apr 11 01:21:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N040723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Apr 07 13:04:49 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.819  | 128   | 56670    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.101  | 114   | 401324   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.866 | 117   | 451062   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.584  | 65    | 146869   | 30.558   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 101.867% |
| 60) 4-Bromofluorobenzene     | 12.848 | 95    | 232518   | 29.812   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 99.367%  |
| 63) Toluene-d8               | 10.566 | 98    | 465464   | 29.354   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 97.833%  |
| Target Compounds             |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.137  | 85    | 94618    | 17.562   | ug/l   | 99       |
| 3) Chloromethane             | 2.372  | 50    | 123021   | 17.188   | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.525  | 62    | 161784   | 15.781   | ug/l   | 93       |
| 5) Bromomethane              | 2.966  | 94    | 127936   | 16.561   | ug/l   | 93       |
| 6) Chloroethane              | 3.131  | 64    | 127691   | 18.582   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.507  | 101   | 166911   | 17.485   | ug/l   | 90       |
| 8) Diethyl Ether             | 3.972  | 74    | 81915    | 20.133   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.378  | 101   | 110096   | 18.444   | ug/l   | 98       |
| 10) 1,1-Dichloroethene       | 4.349  | 96    | 104219   | 17.453   | ug/l   | 95       |
| 11) Methyl Iodide            | 4.601  | 142   | 135327   | 20.059   | ug/l   | 99       |
| 12) Methyl Acetate           | 5.025  | 43    | 173064   | 19.453   | ug/l   | 90       |
| 13) Acrolein                 | 4.184  | 56    | 108490   | 98.242   | ug/l   | 94       |
| 14) Acrylonitrile            | 5.725  | 53    | 296193   | 97.398   | ug/l   | 99       |
| 15) Acetone                  | 4.431  | 58    | 91732    | 83.147   | ug/l   | 97       |
| 16) Carbon Disulfide         | 4.719  | 76    | 270855   | 17.185   | ug/l   | 98       |
| 17) Allyl chloride           | 5.037  | 41    | 137196   | 17.848   | ug/l   | 90       |
| 18) Methylene Chloride       | 5.284  | 84    | 134296   | 19.366   | ug/l   | 98       |
| 19) trans-1,2-Dichloroethene | 5.795  | 96    | 117680   | 18.124   | ug/l   | 93       |
| 20) Diisopropyl ether        | 6.678  | 45    | 345015   | 18.832   | ug/l   | 99       |
| 21) 1,1-Dichloroethane       | 6.578  | 63    | 218442   | 18.811   | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.490  | 96    | 150574   | 19.023   | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 5.519  | 59    | 125915   | 93.118   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.801  | 73    | 434852   | 20.228   | ug/l   | 100      |
| 25) Chloroform               | 7.972  | 83    | 239722   | 19.048   | ug/l   | 99       |
| 26) Cyclohexane              | 8.260  | 56    | 177031   | 17.544   | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.378  | 75    | 162009   | 18.635   | ug/l   | 95       |
| 30) 2-Butanone               | 7.484  | 43    | 384679   | 93.569   | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 7.495  | 77    | 204479   | 19.160   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.172  | 97    | 207665   | 19.410   | ug/l   | 100      |
| 33) Carbon Tetrachloride     | 8.366  | 117   | 176140   | 19.289   | ug/l   | 93       |
| 34) Benzene                  | 8.607  | 78    | 530792   | 19.732   | ug/l   | 99       |
| 35) Methacrylonitrile        | 7.784  | 41    | 77804    | 20.090   | ug/l   | 92       |
| 36) 1,2-Dichloroethane       | 8.678  | 62    | 179511   | 21.285   | ug/l   | 99       |
| 37) Trichloroethene          | 9.354  | 130   | 127904   | 19.439   | ug/l   | 82       |
| 38) Methylcyclohexane        | 9.607  | 83    | 223902   | 18.989   | ug/l   | 100      |
| 39) 1,2-Dichloropropane      | 9.619  | 63    | 138157   | 20.689   | ug/l   | 100      |
| 40) Dibromomethane           | 9.713  | 93    | 101563   | 21.109   | ug/l   | 99       |
| 41) Bromodichloromethane     | 9.889  | 83    | 198917   | 20.733   | ug/l   | 97       |
| 42) Vinyl Acetate            | 6.607  | 43    | 1222660  | 102.757  | ug/l # | 100      |

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 ALS Vial : 4 Sample Multiplier: 1

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 ClientSampleId :  
 VN0410WBSD01

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 QLast Update : Fri Apr 07 13:04:49 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.566  | 43   | 150532m  | 19.791  | ug/l   |          |
| 44) Isopropyl Acetate         | 8.689  | 43   | 280005   | 20.560  | ug/l # | 100      |
| 45) 1,4-Dioxane               | 9.695  | 88   | 56762    | 395.202 | ug/l   | 97       |
| 46) Methyl methacrylate       | 9.683  | 41   | 120750   | 20.594  | ug/l   | 92       |
| 47) n-amyl Acetate            | 12.495 | 43   | 239948   | 20.161  | ug/l   | 99       |
| 48) t-1,3-Dichloropropene     | 10.836 | 75   | 225642   | 21.015  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.313 | 75   | 241983   | 21.184  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 11.019 | 97   | 147797   | 21.148  | ug/l   | 94       |
| 51) Ethyl methacrylate        | 10.878 | 69   | 226558   | 21.110  | ug/l   | 99       |
| 52) 1,3-Dichloropropane       | 11.166 | 76   | 245523   | 21.050  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.360 | 129  | 154795   | 21.015  | ug/l   | 97       |
| 54) 1,2-Dibromoethane         | 11.466 | 107  | 146599   | 20.896  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.160 | 63   | 287125   | 86.652  | ug/l   | 99       |
| 56) Bromoform                 | 12.577 | 173  | 101527   | 20.519  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.448 | 43   | 829543   | 98.224  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.195 | 43   | 608270   | 93.178  | ug/l   | 99       |
| 61) Tetrachloroethene         | 11.107 | 164  | 101484   | 18.916  | ug/l   | 94       |
| 62) Toluene                   | 10.630 | 91   | 605076   | 19.226  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.895 | 112  | 377378   | 19.737  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.960 | 131  | 144593   | 20.565  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.966 | 91   | 682631   | 19.578  | ug/l   | 95       |
| 67) m/p-Xylenes               | 12.072 | 106  | 526286   | 38.509  | ug/l   | 98       |
| 68) o-Xylene                  | 12.401 | 106  | 271807   | 19.880  | ug/l   | 99       |
| 69) Styrene                   | 12.413 | 104  | 432293   | 19.735  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.695 | 105  | 680342   | 19.607  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 218858   | 20.597  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane    | 12.995 | 75   | 177878m  | 24.627  | ug/l   |          |
| 73) Bromobenzene              | 12.983 | 156  | 141388   | 20.056  | ug/l   | 97       |
| 74) n-propylbenzene           | 13.036 | 91   | 739693   | 19.267  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.124 | 91   | 456814   | 19.863  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 552946   | 19.579  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.736 | 75   | 71225    | 19.360  | ug/l   | 94       |
| 78) 4-Chlorotoluene           | 13.224 | 91   | 427563   | 19.675  | ug/l   | 100      |
| 79) tert-butylbenzene         | 13.442 | 119  | 486486   | 19.793  | ug/l   | 100      |
| 80) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 534795   | 19.426  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 13.619 | 105  | 667359   | 19.012  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.730 | 119  | 535410   | 19.039  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.736 | 146  | 257497   | 19.265  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.813 | 146  | 256166   | 19.754  | ug/l   | 98       |
| 85) n-Butylbenzene            | 14.060 | 91   | 427574   | 18.399  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.336 | 117  | 110898   | 18.538  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.107 | 146  | 263660   | 20.132  | ug/l   | 97       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.718 | 75   | 39121    | 19.213  | ug/l   | 99       |
| 89) 1,2,4-Trichlorobenzene    | 15.365 | 180  | 88639    | 17.206  | ug/l   | 100      |
| 90) Hexachlorobutadiene       | 15.465 | 225  | 49701    | 18.811  | ug/l   | 96       |
| 91) Naphthalene               | 15.589 | 128  | 334762   | 17.010  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.760 | 180  | 82858    | 16.484  | ug/l   | 99       |

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

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 ALS Vial : 4 Sample Multiplier: 1

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 MSVOA\_N  
 ClientSampleId :  
 VN0410WBSD01

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