

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082823\  
 Data File : VN079058.D  
 Acq On : 28 Aug 2023 11:12  
 Operator : JC\MD  
 Sample : VN0828WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0828WBS01

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

Quant Time: Aug 29 05:19:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N081723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Aug 18 05:21:14 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |                          |
|------------------------------|--------|-------|----------|----------|--------|----------|--------------------------|
| Internal Standards           |        |       |          |          |        |          | 08/29/2023               |
| 1) Bromochloromethane        | 7.824  | 128   | 49244    | 30.000   | ug/l   | 0.00     | Supervised By :Semsettin |
| 28) 1,4-Difluorobenzene      | 9.106  | 114   | 283397   | 30.000   | ug/l   | 0.00     | esilyurt                 |
| 57) Chlorobenzene-d5         | 11.871 | 117   | 252949   | 30.000   | ug/l   | 0.00     |                          |
| System Monitoring Compounds  |        |       |          |          |        |          | 08/29/2023               |
| 27) 1,2-Dichloroethane-d4    | 8.582  | 65    | 120267   | 30.146   | ug/l   | 0.00     |                          |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 100.500% |                          |
| 60) 4-Bromofluorobenzene     | 12.853 | 95    | 110912   | 30.059   | ug/l   | 0.00     |                          |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 100.200% |                          |
| 63) Toluene-d8               | 10.571 | 98    | 352580   | 29.848   | ug/l   | 0.00     |                          |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 99.500%  |                          |
| Target Compounds             |        |       |          |          |        |          | Qvalue                   |
| 2) Dichlorodifluoromethane   | 2.130  | 85    | 62145    | 19.999   | ug/l   | 97       |                          |
| 3) Chloromethane             | 2.365  | 50    | 70553    | 18.945   | ug/l   | 95       |                          |
| 4) Vinyl Chloride            | 2.518  | 62    | 69900    | 18.965   | ug/l   | 95       |                          |
| 5) Bromomethane              | 2.948  | 94    | 49034    | 21.552   | ug/l   | 96       |                          |
| 6) Chloroethane              | 3.118  | 64    | 49105    | 20.502   | ug/l   | 97       |                          |
| 7) Trichlorofluoromethane    | 3.495  | 101   | 101801   | 20.507   | ug/l   | 97       |                          |
| 8) Diethyl Ether             | 3.959  | 74    | 36889    | 19.757   | ug/l   | 90       |                          |
| 9) 1,1,2-Trichlorotrifluo... | 4.371  | 101   | 52583    | 20.281   | ug/l   | 96       |                          |
| 10) 1,1-Dichloroethene       | 4.342  | 96    | 51657    | 19.804   | ug/l # | 85       |                          |
| 11) Methyl Iodide            | 4.589  | 142   | 61843    | 19.648   | ug/l   | 94       |                          |
| 12) Methyl Acetate           | 5.036  | 43    | 116356   | 19.031   | ug/l   | 97       |                          |
| 13) Acrolein                 | 4.183  | 56    | 24051    | 56.439   | ug/l   | 96       |                          |
| 14) Acrylonitrile            | 5.724  | 53    | 149625   | 93.098   | ug/l # | 91       |                          |
| 15) Acetone                  | 4.430  | 58    | 55665    | 112.908  | ug/l   | 95       |                          |
| 16) Carbon Disulfide         | 4.718  | 76    | 138766   | 18.515   | ug/l   | 98       |                          |
| 17) Allyl chloride           | 5.024  | 41    | 93525    | 19.562   | ug/l   | 98       |                          |
| 18) Methylene Chloride       | 5.283  | 84    | 61685    | 19.782   | ug/l   | 93       |                          |
| 19) trans-1,2-Dichloroethene | 5.789  | 96    | 55984    | 19.070   | ug/l   | 91       |                          |
| 20) Diisopropyl ether        | 6.683  | 45    | 206732   | 19.879   | ug/l # | 92       |                          |
| 21) 1,1-Dichloroethane       | 6.571  | 63    | 115283   | 19.977   | ug/l   | 97       |                          |
| 22) cis-1,2-Dichloroethene   | 7.494  | 96    | 66499    | 19.792   | ug/l   | 98       |                          |
| 23) tert-Butyl Alcohol       | 5.524  | 59    | 56203    | 93.750   | ug/l # | 100      |                          |
| 24) Methyl tert-Butyl Ether  | 5.794  | 73    | 181639   | 19.617   | ug/l # | 83       |                          |
| 25) Chloroform               | 7.965  | 83    | 114460   | 19.689   | ug/l   | 99       |                          |
| 26) Cyclohexane              | 8.265  | 56    | 87463m   | 20.719   | ug/l   |          |                          |
| 29) 1,1-Dichloropropene      | 8.371  | 75    | 85948    | 19.936   | ug/l   | 98       |                          |
| 30) 2-Butanone               | 7.488  | 43    | 241314   | 95.617   | ug/l   | 100      |                          |
| 31) 2,2-Dichloropropane      | 7.494  | 77    | 96907    | 20.339   | ug/l   | 100      |                          |
| 32) 1,1,1-Trichloroethane    | 8.177  | 97    | 100555   | 19.537   | ug/l   | 99       |                          |
| 33) Carbon Tetrachloride     | 8.365  | 117   | 87569    | 19.642   | ug/l # | 95       |                          |
| 34) Benzene                  | 8.612  | 78    | 249996   | 19.351   | ug/l   | 97       |                          |
| 35) Methacrylonitrile        | 7.783  | 41    | 46239    | 17.190   | ug/l   | 97       |                          |
| 36) 1,2-Dichloroethane       | 8.677  | 62    | 92671    | 19.155   | ug/l   | 98       |                          |
| 37) Trichloroethene          | 9.353  | 130   | 60197    | 18.719   | ug/l   | 98       |                          |
| 38) Methylcyclohexane        | 9.606  | 83    | 83933    | 22.114   | ug/l   | 97       |                          |
| 39) 1,2-Dichloropropane      | 9.630  | 63    | 65861    | 18.926   | ug/l   | 100      |                          |
| 40) Dibromomethane           | 9.712  | 93    | 45236    | 19.393   | ug/l   | 96       |                          |
| 41) Bromodichloromethane     | 9.894  | 83    | 90906    | 19.379   | ug/l   | 97       |                          |
| 42) Vinyl Acetate            | 6.612  | 43    | 635556   | 89.319   | ug/l   | 98       |                          |

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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 7.571  | 43   | 86266    | 17.619  | ug/l  | 98       |
| 44) Isopropyl Acetate         | 8.694  | 43   | 149407   | 17.318  | ug/l  | 98       |
| 45) 1,4-Dioxane               | 9.700  | 88   | 23623    | 363.875 | ug/l  | 94       |
| 46) Methyl methacrylate       | 9.688  | 41   | 71146    | 18.717  | ug/l  | 95       |
| 47) n-amyl Acetate            | 12.500 | 43   | 113946   | 17.212  | ug/l  | 97       |
| 48) t-1,3-Dichloropropene     | 10.841 | 75   | 92323    | 18.479  | ug/l  | 91       |
| 49) cis-1,3-Dichloropropene   | 10.318 | 75   | 100790   | 18.813  | ug/l  | 98       |
| 50) 1,1,2-Trichloroethane     | 11.024 | 97   | 61967    | 19.658  | ug/l  | 95       |
| 51) Ethyl methacrylate        | 10.876 | 69   | 94153    | 19.298  | ug/l  | 91       |
| 52) 1,3-Dichloropropane       | 11.165 | 76   | 106371   | 18.840  | ug/l  | 98       |
| 53) Dibromochloromethane      | 11.365 | 129  | 63675    | 18.456  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 11.471 | 107  | 59937    | 18.520  | ug/l  | 92       |
| 55) 2-Chloroethyl vinyl ether | 10.165 | 63   | 123348   | 54.697  | ug/l  | 98       |
| 56) Bromoform                 | 12.582 | 173  | 42230    | 17.349  | ug/l  | 96       |
| 58) 4-Methyl-2-Pentanone      | 10.447 | 43   | 456944   | 91.050  | ug/l  | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 340435   | 92.584  | ug/l  | 100      |
| 61) Tetrachloroethene         | 11.112 | 164  | 51255    | 20.927  | ug/l  | 97       |
| 62) Toluene                   | 10.635 | 91   | 270136   | 19.561  | ug/l  | 100      |
| 64) Chlorobenzene             | 11.894 | 112  | 161671   | 19.471  | ug/l  | 93       |
| 65) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 62020    | 19.535  | ug/l  | 100      |
| 66) Ethyl Benzene             | 11.971 | 91   | 286952   | 19.865  | ug/l  | 98       |
| 67) m/p-Xylenes               | 12.076 | 106  | 219433   | 40.741  | ug/l  | 99       |
| 68) o-Xylene                  | 12.400 | 106  | 105575   | 19.880  | ug/l  | 98       |
| 69) Styrene                   | 12.418 | 104  | 168182   | 19.490  | ug/l  | 99       |
| 70) Isopropylbenzene          | 12.700 | 105  | 264991   | 20.594  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 88849    | 18.420  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane    | 12.994 | 75   | 83150m   | 21.012  | ug/l  |          |
| 73) Bromobenzene              | 12.982 | 156  | 61920    | 18.902  | ug/l  | 97       |
| 74) n-propylbenzene           | 13.041 | 91   | 309627   | 21.232  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 13.129 | 91   | 187318   | 20.248  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 216312   | 21.207  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.747 | 75   | 26665    | 18.132  | ug/l  | 79       |
| 78) 4-Chlorotoluene           | 13.223 | 91   | 180828   | 20.402  | ug/l  | 99       |
| 79) tert-butylbenzene         | 13.447 | 119  | 179087   | 20.777  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 207929   | 20.731  | ug/l  | 96       |
| 81) sec-Butylbenzene          | 13.623 | 105  | 251578   | 22.116  | ug/l  | 99       |
| 82) p-Isopropyltoluene        | 13.735 | 119  | 204403   | 22.009  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 13.735 | 146  | 110653   | 20.931  | ug/l  | 95       |
| 84) 1,4-Dichlorobenzene       | 13.817 | 146  | 102442   | 19.737  | ug/l  | 99       |
| 85) n-Butylbenzene            | 14.059 | 91   | 160785   | 22.011  | ug/l  | 97       |
| 86) Hexachloroethane          | 14.335 | 117  | 38618    | 20.322  | ug/l  | 92       |
| 87) 1,2-Dichlorobenzene       | 14.112 | 146  | 108171   | 19.977  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 14832    | 17.132  | ug/l  | 94       |
| 89) 1,2,4-Trichlorobenzene    | 15.847 | 180  | 42113    | 19.693  | ug/l  | 98       |
| 90) Hexachlorobutadiene       | 15.506 | 225  | 24234    | 21.767  | ug/l  | 97       |
| 91) Naphthalene               | 15.647 | 128  | 110188   | 17.865  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 42113    | 19.693  | ug/l  | 98       |

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

