

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041323\  
 Data File : VN077316.D  
 Acq On : 13 Apr 2023 09:36  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Apr 14 07:21:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N040523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 06 08:27:03 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/14/2023  
 Supervised By : Mahesh Dadoda 04/14/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.231          | 168  | 524279              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.107          | 114  | 999891              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.866         | 117  | 917725              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.795         | 152  | 413110              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.584          | 65   | 364995              | 50.938  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 101.880% |         |        |          |
| 35) Dibromofluoromethane     | 8.172          | 113  | 333903              | 52.164  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 104.320% |         |        |          |
| 50) Toluene-d8               | 10.572         | 98   | 1304599             | 50.628  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 101.260% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.854         | 95   | 456435              | 53.258  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 106.520% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.137          | 85   | 273632              | 40.892  | ug/l   | 100      |
| 3) Chloromethane             | 2.372          | 50   | 307716              | 37.107  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.525          | 62   | 470600              | 41.856  | ug/l   | 99       |
| 5) Bromomethane              | 2.949          | 94   | 335175              | 41.121  | ug/l   | 99       |
| 6) Chloroethane              | 3.125          | 64   | 312781              | 38.981  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.502          | 101  | 456593              | 46.835  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.972          | 74   | 184151              | 45.077  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 4.378          | 101  | 281327              | 47.153  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.596          | 142  | 343426              | 47.330  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.525          | 59   | 267036              | 182.635 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.343          | 96   | 272504              | 44.370  | ug/l   | 94       |
| 13) Acrolein                 | 4.184          | 56   | 250610              | 180.975 | ug/l   | 98       |
| 14) Allyl chloride           | 5.031          | 41   | 322255              | 34.741  | ug/l # | 85       |
| 15) Acrylonitrile            | 5.731          | 53   | 666891              | 206.314 | ug/l   | 98       |
| 16) Acetone                  | 4.437          | 43   | 632352              | 239.350 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.719          | 76   | 701746              | 42.373  | ug/l   | 99       |
| 18) Methyl Acetate           | 5.037          | 43   | 404857              | 40.236  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.801          | 73   | 1000200             | 45.897  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.290          | 84   | 323495              | 43.356  | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.796          | 96   | 308036              | 45.808  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.684          | 45   | 844485              | 45.411  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.607          | 43   | 3166149m            | 251.802 | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.572          | 63   | 555697              | 46.275  | ug/l   | 99       |
| 25) 2-Butanone               | 7.490          | 43   | 900957              | 210.121 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.495          | 77   | 548352              | 49.798  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.495          | 96   | 387734              | 47.217  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.819          | 49   | 228967              | 47.400  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.842          | 42   | 536990              | 194.822 | ug/l   | 95       |
| 30) Chloroform               | 7.972          | 83   | 610619              | 47.682  | ug/l   | 99       |
| 31) Cyclohexane              | 8.266          | 56   | 471225              | 42.322  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.172          | 97   | 553753              | 47.547  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.372          | 75   | 451940              | 47.738  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.566          | 43   | 355015              | 41.913  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.366          | 117  | 472297              | 48.694  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.607          | 83   | 620201              | 48.584  | ug/l   | 93       |
| 40) Benzene                  | 8.607          | 78   | 1375490             | 46.581  | ug/l   | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Apr 14 07:21:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N040523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 06 08:27:03 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/14/2023  
 Supervised By : Mahesh Dadoda 04/14/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.784  | 41   | 177865   | 39.066  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.672  | 62   | 430462   | 47.365  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.689  | 43   | 643658   | 41.182  | ug/l   | 97       |
| 44) Trichloroethene           | 9.354  | 130  | 343304   | 48.589  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.625  | 63   | 336910   | 48.040  | ug/l   | 94       |
| 46) Dibromomethane            | 9.713  | 93   | 250022   | 47.318  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.889  | 83   | 497535   | 47.110  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.684  | 41   | 280544   | 42.076  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.695  | 88   | 134550   | 832.354 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 1873936  | 207.424 | ug/l   | 98       |
| 52) Toluene                   | 10.631 | 92   | 935258   | 48.389  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 566732   | 49.417  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 601365   | 49.229  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 358394   | 47.237  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.878 | 69   | 552194   | 46.727  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 597937   | 47.702  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.160 | 63   | 809476   | 230.106 | ug/l   | 97       |
| 59) 2-Hexanone                | 11.201 | 43   | 1428000  | 212.166 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.360 | 129  | 394536   | 50.490  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.472 | 107  | 366365   | 48.378  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.107 | 164  | 269347   | 47.510  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.895 | 112  | 985077   | 48.755  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.966 | 131  | 355093   | 46.448  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.966 | 91   | 1834379  | 49.200  | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.077 | 106  | 1423823  | 97.191  | ug/l   | 100      |
| 69) o-Xylene                  | 12.401 | 106  | 704067   | 48.716  | ug/l   | 98       |
| 70) Styrene                   | 12.413 | 104  | 1159439  | 49.853  | ug/l   | 99       |
| 71) Bromoform                 | 12.583 | 173  | 258262   | 47.991  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.701 | 105  | 1850196  | 46.111  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.495 | 43   | 599922   | 39.453  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 531499   | 42.209  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 447834m  | 45.524  | ug/l   |          |
| 77) Bromobenzene              | 12.983 | 156  | 370545   | 45.417  | ug/l   | 97       |
| 78) n-propylbenzene           | 13.036 | 91   | 2112652  | 47.652  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.130 | 91   | 1217815  | 45.618  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 1537253  | 47.967  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.736 | 75   | 200831   | 45.941  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 1182391  | 46.977  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.442 | 119  | 1319352  | 46.251  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 1528468  | 48.275  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.619 | 105  | 1927177  | 48.476  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 1569293  | 50.227  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 729160   | 48.308  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.813 | 146  | 723324   | 48.594  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.060 | 91   | 1360155  | 52.439  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.336 | 117  | 320534   | 46.920  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 713577   | 47.257  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 94895    | 39.765  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.371 | 180  | 295181   | 54.152  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.465 | 225  | 146288   | 46.363  | ug/l   | 98       |
| 95) Naphthalene               | 15.589 | 128  | 1052403  | 51.395  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.760 | 180  | 271025   | 51.982  | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023

Quant Time: Apr 14 07:21:43 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N040523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 06 08:27:03 2023  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

