

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032523\  
 Data File : VN077190.D  
 Acq On : 24 Mar 2023 22:06  
 Operator : JC\MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/27/2023  
 Supervised By :Mahesh Dadoda 03/27/2023

Quant Time: Mar 27 02:27:19 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N032523W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 27 02:24:53 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.231          | 168  | 447059     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.107          | 114  | 784167     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.866         | 117  | 717558     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.795         | 152  | 336225     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.584          | 65   | 342778     | 49.039   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 98.080%  |        |          |
| 35) Dibromofluoromethane     | 8.172          | 113  | 259107     | 48.695   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 97.400%  |        |          |
| 50) Toluene-d8               | 10.572         | 98   | 1005295    | 50.422   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 100.840% |        |          |
| 62) 4-Bromofluorobenzene     | 12.848         | 95   | 339628     | 51.903   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 103.800% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.137          | 85   | 214856     | 46.072   | ug/l   | 92       |
| 3) Chloromethane             | 2.372          | 50   | 306135     | 46.793   | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.525          | 62   | 368784     | 49.906   | ug/l   | 100      |
| 5) Bromomethane              | 2.943          | 94   | 286241     | 48.528   | ug/l   | 92       |
| 6) Chloroethane              | 3.125          | 64   | 306591     | 47.855   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.507          | 101  | 504925     | 44.561   | ug/l   | 91       |
| 8) Diethyl Ether             | 3.972          | 74   | 165615     | 44.405   | ug/l   | 62       |
| 9) 1,1,2-Trichlorotrifluo... | 4.384          | 101  | 233733     | 48.195   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.602          | 142  | 283662     | 51.842   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.537          | 59   | 216351     | 227.104  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.349          | 96   | 228588     | 49.554   | ug/l   | 90       |
| 13) Acrolein                 | 4.190          | 56   | 301279     | 225.478  | ug/l   | 100      |
| 14) Allyl chloride           | 5.037          | 41   | 444860     | 51.332   | ug/l # | 78       |
| 15) Acrylonitrile            | 5.731          | 53   | 695608     | 234.217  | ug/l   | 97       |
| 16) Acetone                  | 4.437          | 43   | 616493     | 237.201  | ug/l   | 90       |
| 17) Carbon Disulfide         | 4.725          | 76   | 653407     | 50.622   | ug/l   | 97       |
| 18) Methyl Acetate           | 5.037          | 43   | 494559     | 47.563   | ug/l # | 81       |
| 19) Methyl tert-butyl Ether  | 5.807          | 73   | 821219     | 50.082   | ug/l   | 93       |
| 20) Methylene Chloride       | 5.284          | 84   | 274416     | 47.415   | ug/l # | 77       |
| 21) trans-1,2-Dichloroethene | 5.801          | 96   | 250933     | 49.570   | ug/l # | 83       |
| 22) Diisopropyl ether        | 6.684          | 45   | 943773     | 50.524   | ug/l # | 89       |
| 23) Vinyl Acetate            | 6.613          | 43   | 3082335    | 255.718  | ug/l # | 88       |
| 24) 1,1-Dichloroethane       | 6.578          | 63   | 515282     | 49.341   | ug/l   | 96       |
| 25) 2-Butanone               | 7.490          | 43   | 982212     | 241.696  | ug/l # | 79       |
| 26) 2,2-Dichloropropane      | 7.501          | 77   | 357163     | 49.593   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.490          | 96   | 295269     | 50.566   | ug/l   | 86       |
| 28) Bromochloromethane       | 7.819          | 49   | 250827     | 47.099   | ug/l # | 72       |
| 29) Tetrahydrofuran          | 7.842          | 42   | 655786     | 243.597  | ug/l # | 74       |
| 30) Chloroform               | 7.972          | 83   | 502809     | 48.883   | ug/l   | 98       |
| 31) Cyclohexane              | 8.260          | 56   | 457198     | 47.084   | ug/l # | 81       |
| 32) 1,1,1-Trichloroethane    | 8.172          | 97   | 439411     | 49.758   | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.378          | 75   | 375785     | 50.744   | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.566          | 43   | 392355     | 47.532   | ug/l # | 90       |
| 38) Carbon Tetrachloride     | 8.372          | 117  | 377841     | 50.321   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.601          | 83   | 446670     | 51.642   | ug/l # | 84       |
| 40) Benzene                  | 8.613          | 78   | 1126739    | 49.645   | ug/l   | 98       |

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 ALS Vial : 1 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Mon Mar 27 02:24:53 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.784  | 41   | 224413   | 49.741  | ug/l # | 80       |
| 42) 1,2-Dichloroethane        | 8.672  | 62   | 416280   | 48.646  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.695  | 43   | 649643   | 48.783  | ug/l # | 86       |
| 44) Trichloroethene           | 9.354  | 130  | 265244   | 51.008  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.625  | 63   | 299952   | 49.694  | ug/l   | 97       |
| 46) Dibromomethane            | 9.713  | 93   | 192761   | 48.861  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.889  | 83   | 390561   | 49.778  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.684  | 41   | 319172   | 49.770  | ug/l # | 75       |
| 49) 1,4-Dioxane               | 9.695  | 88   | 101439   | 927.858 | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 2027228  | 241.940 | ug/l # | 85       |
| 52) Toluene                   | 10.631 | 92   | 703308   | 50.812  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 416959   | 52.369  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 446213   | 51.210  | ug/l # | 83       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 268438   | 49.404  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.878 | 69   | 413488   | 51.551  | ug/l # | 66       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 475753   | 49.114  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.166 | 63   | 798648   | 255.251 | ug/l   | 89       |
| 59) 2-Hexanone                | 11.195 | 43   | 1473687  | 244.725 | ug/l   | 83       |
| 60) Dibromochloromethane      | 11.360 | 129  | 284114   | 50.900  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.472 | 107  | 267548   | 49.547  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.107 | 164  | 222159   | 49.910  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.895 | 112  | 715717   | 49.505  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.960 | 131  | 261030   | 49.421  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.966 | 91   | 1356474  | 51.575  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.072 | 106  | 1027428  | 102.705 | ug/l   | 93       |
| 69) o-Xylene                  | 12.401 | 106  | 506307   | 52.265  | ug/l   | 91       |
| 70) Styrene                   | 12.413 | 104  | 827336   | 52.872  | ug/l   | 95       |
| 71) Bromoform                 | 12.583 | 173  | 198860   | 50.830  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.695 | 105  | 1305090  | 49.334  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.495 | 43   | 558077   | 48.413  | ug/l # | 83       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 402700   | 45.574  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 349014m  | 48.051  | ug/l   |          |
| 77) Bromobenzene              | 12.983 | 156  | 294819   | 48.409  | ug/l   | 92       |
| 78) n-propylbenzene           | 13.036 | 91   | 1555075  | 50.972  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.130 | 91   | 922100   | 49.150  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 1126548  | 51.137  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.736 | 75   | 120410   | 50.881  | ug/l # | 81       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 889207   | 49.935  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.442 | 119  | 964504   | 51.765  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 1115555  | 51.529  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.619 | 105  | 1371259  | 51.600  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 1119658  | 52.606  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 543972   | 49.488  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.813 | 146  | 551525   | 50.166  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.060 | 91   | 946685   | 54.254  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.336 | 117  | 201639   | 50.838  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 540376   | 49.288  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 71925    | 46.001  | ug/l   | 88       |
| 93) 1,2,4-Trichlorobenzene    | 15.395 | 180  | 256023   | 48.134  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.501 | 225  | 138318   | 49.734  | ug/l   | 100      |
| 95) Naphthalene               | 15.642 | 128  | 845542   | 47.296  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.842 | 180  | 249213   | 47.635  | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
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-----  
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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