

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121721\  
 Data File : VN070177.D  
 Acq On : 17 Dec 2021 20:52  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/20/2021  
 Supervised By : Mahesh Dadoda 12/23/2021

Quant Time: Dec 19 08:46:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 885172     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 1479097    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.744         | 117  | 1376116    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.675         | 152  | 592998     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 678651     | 49.656   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 99.320%  |        |          |
| 35) Dibromofluoromethane     | 8.021          | 113  | 463190     | 49.995   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 99.980%  |        |          |
| 50) Toluene-d8               | 10.443         | 98   | 1826955    | 49.110   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 98.220%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.731         | 95   | 699641     | 51.913   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 103.820% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 436954     | 42.323   | ug/l   | 99       |
| 3) Chloromethane             | 2.301          | 50   | 544423     | 42.091   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.443          | 62   | 507893     | 42.705   | ug/l   | 99       |
| 5) Bromomethane              | 2.832          | 94   | 264867     | 40.993   | ug/l   | 100      |
| 6) Chloroethane              | 3.003          | 64   | 315735     | 43.323   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.365          | 101  | 690866     | 44.260   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.819          | 74   | 314390     | 52.296   | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 4.202          | 101  | 435489     | 49.771   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.411          | 142  | 555308     | 46.457   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.388          | 59   | 716846     | 277.481  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.173          | 96   | 408588     | 48.459   | ug/l   | 88       |
| 13) Acrolein                 | 4.036          | 56   | 542146     | 246.430  | ug/l   | 99       |
| 14) Allyl chloride           | 4.832          | 41   | 976334     | 51.388   | ug/l # | 90       |
| 15) Acrylonitrile            | 5.557          | 53   | 1875863    | 269.468  | ug/l   | 100      |
| 16) Acetone                  | 4.288          | 43   | 1811114    | 220.294  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.521          | 76   | 894019     | 41.042   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.857          | 43   | 1279017    | 51.541   | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.618          | 73   | 1800688    | 54.925   | ug/l   | 97       |
| 20) Methylene Chloride       | 5.090          | 84   | 528176     | 48.326   | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.591          | 96   | 434741     | 47.471   | ug/l # | 84       |
| 22) Diisopropyl ether        | 6.498          | 45   | 2048905    | 55.173   | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.434          | 43   | 8202780    | 271.507  | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 6.385          | 63   | 1004295    | 52.207   | ug/l   | 98       |
| 25) 2-Butanone               | 7.337          | 43   | 2831847    | 253.512  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.324          | 77   | 710100     | 47.477   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.327          | 96   | 560126     | 50.623   | ug/l   | 87       |
| 28) Bromochloromethane       | 7.657          | 49   | 515057     | 51.488   | ug/l # | 78       |
| 29) Tetrahydrofuran          | 7.686          | 42   | 1824888    | 269.040  | ug/l   | 88       |
| 30) Chloroform               | 7.817          | 83   | 1011289    | 52.054   | ug/l   | 100      |
| 31) Cyclohexane              | 8.094          | 56   | 874679     | 45.988   | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.013          | 97   | 856006     | 51.726   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 691367     | 49.101   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.415          | 43   | 1069470    | 51.031   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 672412     | 48.698   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.459          | 83   | 800868     | 47.817   | ug/l   | 89       |
| 40) Benzene                  | 8.458          | 78   | 2164357    | 50.288   | ug/l   | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/20/2021  
 Supervised By : Mahesh Dadoda 12/23/2021

Quant Time: Dec 19 08:46:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.638  | 41   | 564756   | 57.406   | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 886076   | 51.001   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.563  | 43   | 1678461  | 54.121   | ug/l # | 93       |
| 44) Trichloroethene           | 9.217  | 130  | 509112   | 49.561   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 604336   | 52.290   | ug/l   | 99       |
| 46) Dibromomethane            | 9.577  | 93   | 386908   | 51.045   | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.762  | 83   | 766090   | 53.382   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.561  | 41   | 782806   | 54.087   | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.571  | 88   | 290240   | 1117.635 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 10.330 | 43   | 5712268  | 283.923  | ug/l   | 96       |
| 52) Toluene                   | 10.505 | 92   | 1361453  | 51.814   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 823888   | 47.852   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.191 | 75   | 889365   | 49.124   | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 10.899 | 97   | 565667   | 53.356   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 992486   | 49.632   | ug/l # | 87       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 991005   | 53.087   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.043 | 63   | 1773082  | 322.473  | ug/l   | 92       |
| 59) 2-Hexanone                | 11.087 | 43   | 4246678  | 279.030  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.240 | 129  | 542497   | 47.864   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.347 | 107  | 572991   | 52.181   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.977 | 164  | 461559   | 49.465   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.771 | 112  | 1442751  | 51.680   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.840 | 131  | 523884   | 53.316   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.846 | 91   | 2751458  | 54.257   | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.953 | 106  | 2011527  | 108.941  | ug/l   | 92       |
| 69) o-Xylene                  | 12.280 | 106  | 1007051  | 54.147   | ug/l   | 90       |
| 70) Styrene                   | 12.294 | 104  | 1644936  | 55.776   | ug/l   | 95       |
| 71) Bromoform                 | 12.457 | 173  | 408310   | 48.662   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.578 | 105  | 2659718  | 50.411   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.388 | 43   | 1275743  | 54.676   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827 | 83   | 931483   | 51.055   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.881 | 75   | 828783m  | 48.735   | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 613081   | 49.471   | ug/l   | 76       |
| 78) n-propylbenzene           | 12.921 | 91   | 3006029  | 51.201   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.007 | 91   | 1874316  | 50.524   | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 2196512  | 51.724   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 247521   | 47.829   | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 13.106 | 91   | 1769706  | 50.726   | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.324 | 119  | 1938563  | 51.555   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105  | 2183761  | 53.997   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.503 | 105  | 2642662  | 51.813   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.616 | 119  | 2066229  | 51.827   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 1015011  | 49.855   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.694 | 146  | 987365   | 49.350   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.943 | 91   | 1688836  | 52.221   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.211 | 117  | 346810   | 49.547   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.989 | 146  | 1002506  | 50.537   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.603 | 75   | 175292   | 53.170   | ug/l   | 80       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 491865   | 50.523   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 276628   | 52.619   | ug/l   | 98       |
| 95) Naphthalene               | 15.507 | 128  | 1671558  | 57.068   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.702 | 180  | 494235   | 52.020   | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/20/2021  
Supervised By :Mahesh Dadoda 12/23/2021

Quant Time: Dec 19 08:46:44 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration

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

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

