

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121421\  
 Data File : VN070062.D  
 Acq On : 14 Dec 2021 10:21  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/15/2021  
 Supervised By : Mahesh Dadoda 12/21/2021

Quant Time: Dec 14 17:08:09 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  | 923108     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.965          | 114  | 1471006    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.744         | 117  | 1373742    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.672         | 152  | 618858     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 661633     | 46.421   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 92.840%  |        |          |
| 35) Dibromofluoromethane     | 8.019          | 113  | 464426     | 50.404   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 100.800% |        |          |
| 50) Toluene-d8               | 10.441         | 98   | 1776499    | 48.017   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 96.040%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.728         | 95   | 671182     | 50.075   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 100.160% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 543924     | 50.519   | ug/l   | 99       |
| 3) Chloromethane             | 2.301          | 50   | 662940     | 49.148   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.448          | 62   | 611710     | 49.320   | ug/l   | 98       |
| 5) Bromomethane              | 2.840          | 94   | 345500     | 51.275   | ug/l   | 97       |
| 6) Chloroethane              | 3.011          | 64   | 355784     | 46.812   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.374          | 101  | 802598     | 49.305   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.821          | 74   | 329029     | 52.481   | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 4.205          | 101  | 505348     | 55.382   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.417          | 142  | 641080     | 51.428   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.380          | 59   | 547710     | 203.298  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.178          | 96   | 460887     | 52.415   | ug/l   | 89       |
| 13) Acrolein                 | 4.036          | 56   | 545379     | 237.712  | ug/l   | 99       |
| 14) Allyl chloride           | 4.838          | 41   | 1093009    | 55.164   | ug/l   | 92       |
| 15) Acrylonitrile            | 5.551          | 53   | 1774948    | 244.493  | ug/l   | 100      |
| 16) Acetone                  | 4.283          | 43   | 2383934    | 278.052  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.524          | 76   | 1266553    | 55.754   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.851          | 43   | 1207544    | 46.661   | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.616          | 73   | 1744334    | 51.020   | ug/l   | 95       |
| 20) Methylene Chloride       | 5.093          | 84   | 573844     | 50.347   | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.591          | 96   | 495612     | 51.894   | ug/l   | 85       |
| 22) Diisopropyl ether        | 6.495          | 45   | 2141506    | 55.297   | ug/l # | 94       |
| 23) Vinyl Acetate            | 6.431          | 43   | 8502243    | 269.854  | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.385          | 63   | 1095274    | 54.597   | ug/l   | 97       |
| 25) 2-Butanone               | 7.335          | 43   | 2913607    | 250.113  | ug/l # | 90       |
| 26) 2,2-Dichloropropane      | 7.324          | 77   | 851673     | 54.602   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.324          | 96   | 605207     | 52.450   | ug/l   | 85       |
| 28) Bromochloromethane       | 7.657          | 49   | 563565     | 54.022   | ug/l # | 76       |
| 29) Tetrahydrofuran          | 7.683          | 42   | 1666805    | 235.635  | ug/l # | 86       |
| 30) Chloroform               | 7.815          | 83   | 1093115    | 53.953   | ug/l   | 100      |
| 31) Cyclohexane              | 8.094          | 56   | 1006772    | 50.758   | ug/l   | 87       |
| 32) 1,1,1-Trichloroethane    | 8.013          | 97   | 927948     | 53.769   | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 786038     | 56.131   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.413          | 43   | 995407     | 47.759   | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 808051     | 58.844   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.459          | 83   | 940827     | 56.483   | ug/l   | 88       |
| 40) Benzene                  | 8.459          | 78   | 2344986    | 54.785   | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/15/2021  
 Supervised By : Mahesh Dadoda 12/21/2021

Quant Time: Dec 14 17:08:09 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         | 7.635  | 41   | 540225   | 55.215  | ug/l # | 87       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 930696   | 53.863  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 1586479  | 51.437  | ug/l # | 94       |
| 44) Trichloroethene           | 9.215  | 130  | 554253   | 54.252  | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.488  | 63   | 655785   | 57.053  | ug/l   | 98       |
| 46) Dibromomethane            | 9.574  | 93   | 415486   | 55.117  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.759  | 83   | 901283   | 63.147  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.558  | 41   | 746888   | 51.889  | ug/l   | 84       |
| 49) 1,4-Dioxane               | 9.569  | 88   | 241391   | 934.644 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.331 | 43   | 5268782  | 263.321 | ug/l   | 94       |
| 52) Toluene                   | 10.505 | 92   | 1437947  | 55.026  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.717 | 75   | 912654   | 52.981  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75   | 989067   | 54.695  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.896 | 97   | 575439   | 54.576  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.760 | 69   | 952397   | 47.969  | ug/l # | 86       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 1025334  | 55.228  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 1168536  | 219.896 | ug/l   | 91       |
| 59) 2-Hexanone                | 11.084 | 43   | 3997166  | 264.080 | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.237 | 129  | 648052   | 57.014  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.344 | 107  | 589453   | 53.975  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.977 | 164  | 485882   | 52.162  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.768 | 112  | 1526384  | 54.770  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.841 | 131  | 582651   | 59.399  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.843 | 91   | 2903505  | 57.355  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.953 | 106  | 2115994  | 114.797 | ug/l   | 91       |
| 69) o-Xylene                  | 12.280 | 106  | 1040737  | 56.054  | ug/l   | 91       |
| 70) Styrene                   | 12.294 | 104  | 1752546  | 59.528  | ug/l   | 95       |
| 71) Bromoform                 | 12.457 | 173  | 495366   | 58.551  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.578 | 105  | 2783591  | 50.555  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.388 | 43   | 1195328  | 49.089  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.825 | 83   | 911083   | 47.851  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.878 | 75   | 820338m  | 46.223  | ug/l   |          |
| 77) Bromobenzene              | 12.860 | 156  | 639960   | 49.482  | ug/l   | 77       |
| 78) n-propylbenzene           | 12.919 | 91   | 3278315  | 53.505  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 1977531  | 51.079  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.058 | 105  | 2308504  | 52.090  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.624 | 75   | 277073   | 51.007  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 1936369  | 53.184  | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.324 | 119  | 2008232  | 51.176  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.367 | 105  | 2254511  | 53.417  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.501 | 105  | 2869814  | 53.915  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.613 | 119  | 2298338  | 55.240  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 1128604  | 53.118  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.694 | 146  | 1085967  | 52.010  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.943 | 91   | 1942297  | 57.549  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.209 | 117  | 451662   | 61.831  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 13.989 | 146  | 1079216  | 52.131  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.603 | 75   | 176045   | 51.168  | ug/l   | 77       |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180  | 513536   | 50.544  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.367 | 225  | 302427   | 55.122  | ug/l   | 99       |
| 95) Naphthalene               | 15.504 | 128  | 1271815  | 42.686  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180  | 493893   | 49.916  | ug/l   | 99       |

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ALS Vial : 2 Sample Multiplier: 1

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ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/15/2021  
Supervised By :Mahesh Dadoda 12/21/2021

Quant Time: Dec 14 17:08:09 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

