

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061722\  
 Data File : VN072912.D  
 Acq On : 17 Jun 2022 15:02  
 Operator : JC\MD  
 Sample : VSTDIC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 06/20/2022  
 Supervised By :Mahesh Dadoda 06/20/2022

Quant Time: Jun 18 05:44:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 05:42:29 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 314171     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.904          | 114  | 552263     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.680         | 117  | 478633     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.610         | 152  | 210258     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 80564      | 14.893   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 29.780%# |        |          |
| 35) Dibromofluoromethane     | 7.951          | 113  | 64697      | 13.936   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 27.880%# |        |          |
| 50) Toluene-d8               | 10.374         | 98   | 236648     | 13.029   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 26.060%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.668         | 95   | 82929      | 13.272   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 26.540%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 60528      | 14.711   | ug/l   | 90       |
| 3) Chloromethane             | 2.263          | 50   | 62451      | 13.352   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.404          | 62   | 54845      | 15.078   | ug/l   | 99       |
| 5) Bromomethane              | 2.804          | 94   | 25307      | 18.267   | ug/l   | 99       |
| 6) Chloroethane              | 2.963          | 64   | 33421      | 15.470   | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.316          | 101  | 96748      | 14.412   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.769          | 74   | 45644      | 15.649   | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 4.145          | 101  | 59554      | 15.094   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.345          | 142  | 70985      | 14.931   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.298          | 59   | 106732     | 74.985   | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.116          | 96   | 60502      | 14.584   | ug/l   | 96       |
| 13) Acrolein                 | 3.987          | 56   | 44704      | 94.960   | ug/l   | 97       |
| 14) Allyl chloride           | 4.763          | 41   | 126500     | 15.019   | ug/l   | 93       |
| 15) Acrylonitrile            | 5.481          | 53   | 255579     | 81.835   | ug/l   | 98       |
| 16) Acetone                  | 4.228          | 43   | 224762     | 80.368   | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.457          | 76   | 152329     | 13.697   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.787          | 43   | 118473     | 14.836   | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.540          | 73   | 233178     | 15.386   | ug/l   | 100      |
| 20) Methylene Chloride       | 5.022          | 84   | 73956      | 14.929   | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.516          | 96   | 63433      | 14.433   | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.416          | 45   | 244754     | 15.696   | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.351          | 43   | 1132756    | 79.992   | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.304          | 63   | 128039     | 15.711   | ug/l   | 99       |
| 25) 2-Butanone               | 7.263          | 43   | 368239     | 82.510   | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 7.251          | 77   | 106721     | 14.467   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.251          | 96   | 78943      | 14.834   | ug/l   | 97       |
| 28) Bromochloromethane       | 7.586          | 49   | 53108      | 15.119   | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.616          | 42   | 246450     | 83.517   | ug/l   | 89       |
| 30) Chloroform               | 7.745          | 83   | 128069     | 15.197   | ug/l   | 99       |
| 31) Cyclohexane              | 8.028          | 56   | 111045     | 15.224   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.945          | 97   | 112230     | 15.141   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.151          | 75   | 90255      | 13.979   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.339          | 43   | 145719     | 15.598   | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.139          | 117  | 94412      | 13.635   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.392          | 83   | 108717     | 13.582   | ug/l   | 98       |
| 40) Benzene                  | 8.392          | 78   | 286991     | 13.964   | ug/l   | 99       |

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 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 06/20/2022  
 Supervised By :Mahesh Dadoda 06/20/2022

Quant Time: Jun 18 05:44:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 05:42:29 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.569  | 41   | 65487    | 13.484  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.463  | 62   | 104288   | 14.091  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.492  | 43   | 210284   | 14.434  | ug/l   | 95       |
| 44) Trichloroethene           | 9.151  | 130  | 72508    | 13.262  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.427  | 63   | 72126    | 13.888  | ug/l   | 100      |
| 46) Dibromomethane            | 9.510  | 93   | 49723    | 13.854  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.698  | 83   | 100791   | 13.886  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.492  | 41   | 93735    | 14.125  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 41941    | 297.488 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 681506   | 72.149  | ug/l   | 93       |
| 52) Toluene                   | 10.439 | 92   | 180530   | 13.633  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 107594   | 13.041  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.127 | 75   | 116204   | 13.556  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.833 | 97   | 75204    | 14.022  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.698 | 69   | 124059   | 13.673  | ug/l   | 87       |
| 57) 1,3-Dichloropropane       | 10.980 | 76   | 126576   | 13.864  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.975  | 63   | 283487   | 85.927  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.022 | 43   | 532248   | 75.974  | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.174 | 129  | 76978    | 13.480  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.280 | 107  | 78776    | 13.587  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.910 | 164  | 59154    | 13.672  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.704 | 112  | 186269   | 15.474  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 71576    | 15.396  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.780 | 91   | 330434   | 15.511  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.886 | 106  | 252520   | 30.816  | ug/l   | 96       |
| 69) o-Xylene                  | 12.216 | 106  | 129255   | 15.383  | ug/l   | 97       |
| 70) Styrene                   | 12.227 | 104  | 210477   | 16.176  | ug/l   | 99       |
| 71) Bromoform                 | 12.392 | 173  | 54131    | 14.544  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.516 | 105  | 326822   | 16.666  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.327 | 43   | 168265   | 19.710  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.763 | 83   | 118868   | 18.417  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.821 | 75   | 119225m  | 19.828  | ug/l   |          |
| 77) Bromobenzene              | 12.792 | 156  | 78713    | 17.167  | ug/l   | 90       |
| 78) n-propylbenzene           | 12.857 | 91   | 360801   | 17.616  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.939 | 91   | 229804   | 17.294  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.998 | 105  | 270128   | 17.125  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.563 | 75   | 38788    | 18.062  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 13.039 | 91   | 213447   | 17.294  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.257 | 119  | 251445   | 17.738  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.304 | 105  | 271979   | 17.925  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.433 | 105  | 326904   | 17.841  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.551 | 119  | 267852   | 18.067  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.551 | 146  | 136895   | 18.169  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.627 | 146  | 137480   | 18.028  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.874 | 91   | 214190   | 18.676  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.139 | 117  | 49198    | 15.551  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.921 | 146  | 144342   | 18.848  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.533 | 75   | 29570    | 18.470  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.192 | 180  | 79849    | 20.610  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.292 | 225  | 33661    | 17.662  | ug/l   | 100      |
| 95) Naphthalene               | 15.427 | 128  | 314167   | 23.143  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.621 | 180  | 83873    | 21.743  | ug/l   | 99       |

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 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_N  
**ClientSampleId :**  
 VSTDICC020

**Manual Integrations**  
**APPROVED**

Reviewed By :Krupa Patel 06/20/2022  
 Supervised By :Mahesh Dadoda 06/20/2022

Quant Time: Jun 18 05:44:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 05:42:29 2022  
 Response via : Initial Calibration

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

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

