

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072822\  
 Data File : VN073617.D  
 Acq On : 28 Jul 2022 11:20  
 Operator : JC\MD  
 Sample : VSTDIC010  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC010

Quant Time: Jul 29 01:30:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 29 01:29:16 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 07/29/2022  
 Supervised By : Mahesh Dadoda 07/29/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 322031     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.904          | 114  | 545124     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.686         | 117  | 485694     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.615         | 152  | 213454     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 37446      | 9.542    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 19.080%# |        |          |
| 35) Dibromofluoromethane     | 7.957          | 113  | 31559      | 9.220    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 18.440%# |        |          |
| 50) Toluene-d8               | 10.380         | 98   | 117197     | 8.701    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 17.400%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.674         | 95   | 33572      | 8.060    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 16.120%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 32395      | 10.537   | ug/l   | 92       |
| 3) Chloromethane             | 2.269          | 50   | 47564      | 10.579   | ug/l   | 89       |
| 4) Vinyl Chloride            | 2.404          | 62   | 57897      | 10.677   | ug/l   | 100      |
| 5) Bromomethane              | 2.816          | 94   | 33276      | 10.503   | ug/l   | 97       |
| 6) Chloroethane              | 2.975          | 64   | 39203      | 10.311   | ug/l   | 89       |
| 7) Trichlorofluoromethane    | 3.316          | 101  | 55558      | 9.911    | ug/l   | 99       |
| 8) Diethyl Ether             | 3.769          | 74   | 20380      | 9.914    | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.145          | 101  | 31183      | 9.761    | ug/l   | 98       |
| 10) Methyl Iodide            | 4.357          | 142  | 32109      | 10.140   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.287          | 59   | 43253      | 51.104   | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.116          | 96   | 31244      | 10.427   | ug/l   | 90       |
| 13) Acrolein                 | 3.987          | 56   | 44623      | 53.181   | ug/l   | 95       |
| 14) Allyl chloride           | 4.763          | 41   | 49291      | 9.940    | ug/l   | 99       |
| 15) Acrylonitrile            | 5.481          | 53   | 119930     | 51.768   | ug/l   | 98       |
| 16) Acetone                  | 4.228          | 43   | 105122     | 50.011   | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.463          | 76   | 82600      | 10.049   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.787          | 43   | 52325      | 10.010   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.539          | 73   | 104889     | 10.224   | ug/l   | 95       |
| 20) Methylene Chloride       | 5.016          | 84   | 41407      | 9.904    | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.522          | 96   | 33341      | 10.050   | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.416          | 45   | 107539     | 10.460   | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.351          | 43   | 445689     | 51.102   | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.310          | 63   | 66164      | 10.411   | ug/l   | 97       |
| 25) 2-Butanone               | 7.263          | 43   | 167622     | 50.914   | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.245          | 77   | 49544      | 9.669    | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.251          | 96   | 42240      | 10.414   | ug/l   | 94       |
| 28) Bromochloromethane       | 7.580          | 49   | 24544      | 9.161    | ug/l   | 90       |
| 29) Tetrahydrofuran          | 7.610          | 42   | 105777     | 50.836   | ug/l   | 99       |
| 30) Chloroform               | 7.751          | 83   | 70122      | 10.424   | ug/l   | 95       |
| 31) Cyclohexane              | 8.028          | 56   | 61193      | 10.473   | ug/l # | 94       |
| 32) 1,1,1-Trichloroethane    | 7.945          | 97   | 56600      | 10.137   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.151          | 75   | 47596      | 9.751    | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.339          | 43   | 63126      | 10.252   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.133          | 117  | 47965      | 9.806    | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.392          | 83   | 54536      | 9.490    | ug/l   | 99       |
| 40) Benzene                  | 8.392          | 78   | 158203     | 10.069   | ug/l   | 95       |

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 Sample : VSTDICC010  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC010

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/29/2022  
 Supervised By : Mahesh Dadoda 07/29/2022

Quant Time: Jul 29 01:30:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 29 01:29:16 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.569  | 41   | 27314    | 9.448   | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.469  | 62   | 53896    | 10.039  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.498  | 43   | 85462    | 9.908   | ug/l   | 99       |
| 44) Trichloroethene           | 9.151  | 130  | 38773    | 9.791   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.427  | 63   | 39345    | 10.008  | ug/l   | 97       |
| 46) Dibromomethane            | 9.516  | 93   | 26660    | 9.731   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.698  | 83   | 50531    | 9.680   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.498  | 41   | 34230    | 9.192   | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.510  | 88   | 20596    | 200.296 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.274 | 43   | 313945   | 51.313  | ug/l   | 99       |
| 52) Toluene                   | 10.445 | 92   | 95536    | 10.006  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.663 | 75   | 48886    | 9.422   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.127 | 75   | 56186    | 9.658   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 40700    | 9.995   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.704 | 69   | 51557    | 9.324   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 67036    | 9.881   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.980  | 63   | 118835   | 47.023  | ug/l   | 96       |
| 59) 2-Hexanone                | 11.027 | 43   | 233454   | 50.012  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.174 | 129  | 38264    | 9.441   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.286 | 107  | 38838    | 9.413   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.916 | 164  | 39064    | 10.159  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.710 | 112  | 99964    | 9.670   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 36353    | 9.939   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.786 | 91   | 167134   | 9.715   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.892 | 106  | 127406   | 19.309  | ug/l   | 96       |
| 69) o-Xylene                  | 12.221 | 106  | 62879    | 9.820   | ug/l   | 100      |
| 70) Styrene                   | 12.233 | 104  | 99233    | 9.687   | ug/l   | 98       |
| 71) Bromoform                 | 12.398 | 173  | 28167    | 9.485   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.521 | 105  | 158089   | 10.079  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.333 | 43   | 58298    | 9.908   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.768 | 83   | 61358    | 10.151  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.821 | 75   | 47522m   | 9.396   | ug/l   |          |
| 77) Bromobenzene              | 12.804 | 156  | 38692    | 9.548   | ug/l   | 96       |
| 78) n-propylbenzene           | 12.862 | 91   | 174942   | 10.053  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 111620   | 10.266  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.004 | 105  | 130971   | 10.256  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.568 | 75   | 15829    | 9.610   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.045 | 91   | 104432   | 10.030  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.262 | 119  | 115843   | 10.277  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.310 | 105  | 129942   | 10.373  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.439 | 105  | 156333   | 10.063  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.557 | 119  | 121475   | 9.894   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.557 | 146  | 72126    | 9.894   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.633 | 146  | 73833    | 9.927   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.886 | 91   | 92644    | 9.200   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.145 | 117  | 24101    | 9.569   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.927 | 146  | 74526    | 9.919   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.545 | 75   | 11931    | 10.017  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.198 | 180  | 33600    | 9.046   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.304 | 225  | 19423    | 9.601   | ug/l   | 98       |
| 95) Naphthalene               | 15.439 | 128  | 111635   | 9.242   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.627 | 180  | 36541    | 9.402   | ug/l   | 99       |

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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC010

Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/29/2022  
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Quant Time: Jul 29 01:30:59 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 29 01:29:16 2022  
Response via : Initial Calibration

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

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

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