

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072023\  
 Data File : VN078594.D  
 Acq On : 20 Jul 2023 15:23  
 Operator : JC\MD  
 Sample : VN0720MBS01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0720MBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/21/2023  
 Supervised By : Mahesh Dadoda 07/21/2023

Quant Time: Jul 21 06:14:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 516321     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 872664     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 759607     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 310141     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 317689     | 45.897  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 91.800% |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 281657     | 47.546  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 95.100% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 1034492    | 46.226  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 92.460% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 326956     | 47.432  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 94.860% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 102619     | 16.211  | ug/l   | 94       |
| 3) Chloromethane             | 2.371          | 50   | 118371     | 17.204  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.518          | 62   | 161043     | 18.093  | ug/l   | 97       |
| 5) Bromomethane              | 2.959          | 94   | 103306     | 14.855  | ug/l   | 95       |
| 6) Chloroethane              | 3.124          | 64   | 98203      | 16.970  | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 188397     | 17.707  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.971          | 74   | 65150      | 18.379  | ug/l   | 79       |
| 9) 1,1,2-Trichlorotrifluo... | 4.389          | 101  | 107001     | 18.998  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.606          | 142  | 125934     | 16.271  | ug/l   | 90       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 97383      | 91.237  | ug/l # | 81       |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 95669      | 17.560  | ug/l   | 96       |
| 13) Acrolein                 | 4.189          | 56   | 102894     | 97.981  | ug/l   | 95       |
| 14) Allyl chloride           | 5.036          | 41   | 127758     | 17.161  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.730          | 53   | 251707     | 93.334  | ug/l   | 99       |
| 16) Acetone                  | 4.442          | 43   | 232948     | 108.039 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.724          | 76   | 234467     | 14.883  | ug/l   | 97       |
| 18) Methyl Acetate           | 5.042          | 43   | 166666     | 18.260  | ug/l   | 90       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 335111     | 18.669  | ug/l   | 100      |
| 20) Methylene Chloride       | 5.289          | 84   | 120749     | 18.760  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 107805     | 17.560  | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.683          | 45   | 323421     | 19.402  | ug/l # | 93       |
| 23) Vinyl Acetate            | 6.618          | 43   | 989424     | 93.365  | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 204666     | 18.221  | ug/l   | 98       |
| 25) 2-Butanone               | 7.494          | 43   | 331205     | 97.583  | ug/l   | 88       |
| 26) 2,2-Dichloropropane      | 7.506          | 77   | 178083     | 19.384  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.500          | 96   | 131016     | 18.447  | ug/l   | 93       |
| 28) Bromochloromethane       | 7.824          | 49   | 94836      | 17.926  | ug/l   | 89       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 194663     | 87.407  | ug/l   | 86       |
| 30) Chloroform               | 7.971          | 83   | 223882     | 19.145  | ug/l   | 93       |
| 31) Cyclohexane              | 8.265          | 56   | 158137     | 16.905  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 200734     | 19.146  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 158167     | 18.491  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.571          | 43   | 134190     | 18.819  | ug/l   | 94       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 175620     | 18.891  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.606          | 83   | 145631     | 18.652  | ug/l   | 89       |
| 40) Benzene                  | 8.612          | 78   | 488018     | 19.258  | ug/l   | 99       |

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 ALS Vial : 12 Sample Multiplier: 1

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 ClientSampleId :  
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Quant Time: Jul 21 06:14:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.789  | 41   | 66928    | 18.412  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 166656   | 19.335  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.700  | 43   | 243528   | 20.745  | ug/l # | 91       |
| 44) Trichloroethene           | 9.359  | 130  | 125000   | 18.302  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 124297   | 19.367  | ug/l   | 94       |
| 46) Dibromomethane            | 9.712  | 93   | 85503    | 18.928  | ug/l   | 89       |
| 47) Bromodichloromethane      | 9.894  | 83   | 175169   | 19.345  | ug/l   | 93       |
| 48) Methyl methacrylate       | 9.688  | 41   | 98748    | 18.156  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 43763    | 368.971 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 676954   | 96.947  | ug/l   | 95       |
| 52) Toluene                   | 10.635 | 92   | 302550   | 19.264  | ug/l   | 93       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 179856   | 19.388  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 193211   | 19.539  | ug/l # | 92       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 124992   | 20.199  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 171381   | 19.813  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 204367   | 19.424  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 276914   | 89.830  | ug/l   | 92       |
| 59) 2-Hexanone                | 11.200 | 43   | 494262   | 99.596  | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.365 | 129  | 133180   | 19.495  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.477 | 107  | 124913   | 19.596  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.112 | 164  | 104605   | 18.317  | ug/l   | 91       |
| 65) Chlorobenzene             | 11.900 | 112  | 322045   | 18.967  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 130616   | 19.997  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.971 | 91   | 556250   | 19.381  | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.076 | 106  | 422740   | 39.839  | ug/l   | 96       |
| 69) o-Xylene                  | 12.406 | 106  | 210999   | 19.686  | ug/l   | 100      |
| 70) Styrene                   | 12.418 | 104  | 333551   | 19.892  | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 85371    | 19.299  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.700 | 105  | 527795   | 18.111  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 179480   | 17.871  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 171417   | 19.149  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 136661m  | 18.230  | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 125553   | 18.849  | ug/l   | 95       |
| 78) n-propylbenzene           | 13.041 | 91   | 582542   | 18.692  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 367938   | 18.024  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 417571   | 18.135  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 47698    | 16.720  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 340597   | 17.885  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.447 | 119  | 359986   | 18.414  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 422058   | 18.871  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 465930   | 18.856  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 375256   | 18.913  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 208999   | 18.681  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 201639   | 17.894  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 288170   | 20.298  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.341 | 117  | 72683    | 19.432  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 202625   | 18.199  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 25691    | 17.153  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 57266    | 16.116  | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.512 | 225  | 41916    | 20.348  | ug/l   | 97       |
| 95) Naphthalene               | 15.647 | 128  | 177623   | 14.622  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 68775    | 16.833  | ug/l   | 97       |

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ALS Vial : 12 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/21/2023  
Supervised By :Mahesh Dadoda 07/21/2023

Quant Time: Jul 21 06:14:32 2023  
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Quant Title : SW846 8260  
QLast Update : Mon Jul 10 16:13:53 2023  
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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

