

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051122\  
 Data File : VN072425.D  
 Acq On : 11 May 2022 18:29  
 Operator : JC\MD  
 Sample : N2791-02MS  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BEM-MW-04MS

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/12/2022  
 Supervised By : Mahesh Dadoda 05/12/2022

Quant Time: May 12 02:14:47 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051022W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 10 15:43:28 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 8.081  | 168   | 205150   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.969  | 114   | 323082   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739 | 117   | 303467   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668 | 152   | 136518   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.433  | 65    | 150969   | 48.045   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 61 - 141 | Recovery | =      | 96.100%  |
| 35) Dibromofluoromethane     | 0.000  | 113   | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 69 - 133 | Recovery | =      | 0.000%#  |
| 50) Toluene-d8               | 10.439 | 98    | 396951   | 48.490   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 65 - 126 | Recovery | =      | 96.980%  |
| 62) 4-Bromofluorobenzene     | 12.727 | 95    | 141736   | 52.134   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 58 - 135 | Recovery | =      | 104.260% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069  | 85    | 121891   | 47.640   | ug/l   | 100      |
| 3) Chloromethane             | 2.299  | 50    | 109911   | 45.788   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.440  | 62    | 95180    | 43.690   | ug/l   | 95       |
| 5) Bromomethane              | 2.828  | 94    | 54764    | 42.222   | ug/l   | 97       |
| 6) Chloroethane              | 3.004  | 64    | 55309    | 48.415   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.363  | 101   | 204035   | 50.531   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.822  | 74    | 65711    | 45.111   | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 4.204  | 101   | 103297   | 46.884   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.422  | 142   | 132532   | 45.378   | ug/l # | 87       |
| 11) Tert butyl alcohol       | 5.363  | 59    | 131237   | 255.428  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.175  | 96    | 149860   | 72.592   | ug/l   | 94       |
| 13) Acrolein                 | 4.040  | 56    | 12011    | 23.893   | ug/l   | 89       |
| 14) Allyl chloride           | 4.840  | 41    | 171807   | 44.699   | ug/l   | 94       |
| 15) Acrylonitrile            | 5.551  | 53    | 293958   | 210.548  | ug/l   | 99       |
| 16) Acetone                  | 4.281  | 43    | 671746   | 539.806  | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.528  | 76    | 103036   | 19.245   | ug/l # | 95       |
| 18) Methyl Acetate           | 4.851  | 43    | 7869     | 2.148    | ug/l # | 68       |
| 19) Methyl tert-butyl Ether  | 5.616  | 73    | 378152   | 50.688   | ug/l   | 100      |
| 20) Methylene Chloride       | 5.092  | 84    | 109974   | 43.101   | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.592  | 96    | 99833    | 46.222   | ug/l   | 91       |
| 22) Diisopropyl ether        | 6.492  | 45    | 334117   | 42.778   | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 6.386  | 63    | 204408   | 46.378   | ug/l   | 99       |
| 25) 2-Butanone               | 7.328  | 43    | 548277   | 279.163  | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.322  | 77    | 166362   | 44.916   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.322  | 96    | 122490   | 47.173   | ug/l   | 93       |
| 28) Bromochloromethane       | 7.651  | 49    | 88348    | 47.209   | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.681  | 42    | 292237   | 228.950  | ug/l   | 95       |
| 30) Chloroform               | 7.816  | 83    | 216034   | 48.179   | ug/l   | 99       |
| 31) Cyclohexane              | 8.092  | 56    | 179725   | 43.165   | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 8.010  | 97    | 207086   | 50.353   | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 8.216  | 75    | 155187   | 50.268   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.204  | 117   | 181447   | 52.514   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.457  | 83    | 186301   | 53.695   | ug/l   | 95       |
| 40) Benzene                  | 8.457  | 78    | 461596   | 50.051   | ug/l   | 96       |
| 41) Methacrylonitrile        | 7.633  | 41    | 93531    | 50.996   | ug/l # | 87       |
| 42) 1,2-Dichloroethane       | 8.528  | 62    | 191831   | 51.751   | ug/l   | 95       |

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 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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 BEM-MW-04MS

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/12/2022  
 Supervised By : Mahesh Dadoda 05/12/2022

Quant Time: May 12 02:14:47 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051022W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 10 15:43:28 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 44) Trichloroethene           | 9.210  | 130  | 221223   | 94.491   | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 115683   | 49.117   | ug/l   | 99       |
| 46) Dibromomethane            | 9.575  | 93   | 82184    | 50.114   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.757  | 83   | 126152   | 37.733   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 52064    | 1149.812 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.327 | 43   | 935438   | 264.785  | ug/l   | 95       |
| 52) Toluene                   | 10.504 | 92   | 296047   | 52.059   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 177620   | 52.193   | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 177069   | 48.768   | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 10.898 | 97   | 38331    | 16.180   | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 206236   | 51.123   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 253644   | 274.520  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.080 | 43   | 719211   | 290.338  | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.233 | 129  | 110325   | 43.839   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.345 | 107  | 121113   | 51.298   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.974 | 164  | 178600   | 81.764   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.763 | 112  | 305743   | 49.313   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 104452   | 42.090   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.839 | 91   | 574391   | 53.694   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.951 | 106  | 444629   | 109.590  | ug/l   | 94       |
| 69) o-Xylene                  | 12.274 | 106  | 220447   | 55.301   | ug/l   | 91       |
| 70) Styrene                   | 12.292 | 104  | 346358   | 56.794   | ug/l   | 96       |
| 71) Bromoform                 | 12.451 | 173  | 93217    | 50.922   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.574 | 105  | 558541   | 49.387   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 154498m  | 43.390   | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 131717   | 48.680   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.916 | 91   | 630666   | 52.113   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 386173   | 48.574   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 480493   | 51.875   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 47371    | 44.383   | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 371307   | 49.281   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 411930   | 50.801   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 473981   | 52.604   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 564749   | 52.223   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 468873   | 55.661   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 234512   | 50.256   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 231667   | 49.904   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.939 | 91   | 359327   | 55.804   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.204 | 117  | 83342    | 49.510   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 232036   | 49.787   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 14511    | 20.325   | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 111257   | 63.019   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.362 | 225  | 61356    | 52.489   | ug/l   | 98       |
| 95) Naphthalene               | 15.498 | 128  | 415605   | 62.826   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 114566   | 64.755   | ug/l   | 98       |

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

