

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062322\  
 Data File : VN073042.D  
 Acq On : 23 Jun 2022 12:37  
 Operator : JC\MD  
 Sample : N3381-05MSD  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-6MSD

Quant Time: Jun 24 01:17:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 06:22:45 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John Carlone 06/24/2022  
 Supervised By :Mahesh Dadoda 06/28/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 232860              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.898          | 114  | 424533              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.680         | 117  | 380601              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.610         | 152  | 172208              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 182677              | 58.026  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 116.060% |         |        |          |
| 35) Dibromofluoromethane     | 7.951          | 113  | 141089              | 53.769  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 107.540% |         |        |          |
| 50) Toluene-d8               | 10.374         | 98   | 519466              | 53.202  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 106.400% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.668         | 95   | 192790              | 54.911  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 109.820% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 122772              | 55.375  | ug/l   | 100      |
| 3) Chloromethane             | 2.269          | 50   | 115409              | 48.442  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.410          | 62   | 113090              | 56.878  | ug/l   | 99       |
| 5) Bromomethane              | 2.793          | 94   | 43444               | 55.505  | ug/l   | 91       |
| 6) Chloroethane              | 2.963          | 64   | 73540               | 59.119  | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.316          | 101  | 202863              | 62.653  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.763          | 74   | 93355               | 55.866  | ug/l   | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.140          | 101  | 120410              | 53.799  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.351          | 142  | 101428              | 39.537  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.287          | 59   | 215409              | 264.883 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.116          | 96   | 117487              | 52.698  | ug/l   | 98       |
| 13) Acrolein                 | 3.987          | 56   | 73069               | 228.139 | ug/l   | 93       |
| 14) Allyl chloride           | 4.763          | 41   | 248469              | 52.164  | ug/l # | 92       |
| 15) Acrylonitrile            | 5.475          | 53   | 538737              | 287.380 | ug/l   | 99       |
| 16) Acetone                  | 4.222          | 43   | 572804              | 330.996 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.463          | 76   | 252886              | 44.271  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.775          | 43   | 214895              | 46.632  | ug/l   | 90       |
| 19) Methyl tert-butyl Ether  | 5.534          | 73   | 488613              | 58.356  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.016          | 84   | 149566              | 55.748  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.516          | 96   | 125154              | 51.608  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.416          | 45   | 529602              | 59.641  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.351          | 43   | 1930633             | 235.529 | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.310          | 63   | 269114              | 57.807  | ug/l   | 99       |
| 25) 2-Butanone               | 7.257          | 43   | 788624              | 287.178 | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.245          | 77   | 133769              | 34.435  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.245          | 96   | 162226              | 55.991  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.580          | 49   | 119488              | 62.061  | ug/l   | 84       |
| 29) Tetrahydrofuran          | 7.610          | 42   | 520872              | 287.231 | ug/l   | 86       |
| 30) Chloroform               | 7.745          | 83   | 272180              | 57.752  | ug/l   | 96       |
| 31) Cyclohexane              | 8.022          | 56   | 212707              | 49.948  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.939          | 97   | 239102              | 57.813  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.151          | 75   | 181536              | 51.128  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.339          | 43   | 264543              | 46.581  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 8.133          | 117  | 194675              | 52.126  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.392          | 83   | 205812              | 48.091  | ug/l   | 96       |
| 40) Benzene                  | 8.386          | 78   | 589585              | 52.837  | ug/l   | 98       |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-6MSD

Quant Time: Jun 24 01:17:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 06:22:45 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 06/24/2022  
 Supervised By :Mahesh Dadoda 06/28/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.569  | 41   | 151533   | 56.267  | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.463  | 62   | 222806   | 56.217  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.492  | 43   | 407943   | 50.251  | ug/l   | 94       |
| 44) Trichloroethene           | 9.145  | 130  | 142143   | 50.267  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.422  | 63   | 158955   | 55.729  | ug/l   | 96       |
| 46) Dibromomethane            | 9.510  | 93   | 105156   | 54.525  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.698  | 83   | 217350   | 56.707  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.492  | 41   | 202597   | 54.660  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 81416    | 976.246 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 1510208  | 285.275 | ug/l   | 91       |
| 52) Toluene                   | 10.439 | 92   | 369777   | 53.976  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 218973   | 53.123  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.127 | 75   | 232601   | 51.661  | ug/l # | 90       |
| 55) 1,1,2-Trichloroethane     | 10.833 | 97   | 158683   | 52.753  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.698 | 69   | 270799   | 56.166  | ug/l # | 86       |
| 57) 1,3-Dichloropropane       | 10.980 | 76   | 271607   | 54.425  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.021 | 43   | 1160989  | 283.548 | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.174 | 129  | 167756   | 59.010  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.280 | 107  | 163176   | 55.026  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.910 | 164  | 113570   | 49.051  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.704 | 112  | 389148   | 52.355  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.774 | 131  | 153450   | 54.241  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.780 | 91   | 716579   | 54.765  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.892 | 106  | 549447   | 107.063 | ug/l   | 96       |
| 69) o-Xylene                  | 12.216 | 106  | 277030   | 54.022  | ug/l   | 97       |
| 70) Styrene                   | 12.233 | 104  | 451306   | 54.802  | ug/l   | 99       |
| 71) Bromoform                 | 12.392 | 173  | 122015   | 57.201  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.515 | 105  | 710575   | 53.337  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.327 | 43   | 310685   | 44.939  | ug/l   | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.763 | 83   | 256818   | 53.527  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.815 | 75   | 196110m  | 46.971  | ug/l   |          |
| 77) Bromobenzene              | 12.798 | 156  | 167211   | 52.391  | ug/l   | 90       |
| 78) n-propylbenzene           | 12.857 | 91   | 805495   | 54.968  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 495019   | 52.166  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.992 | 105  | 588599   | 53.786  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.563 | 75   | 69534    | 44.977  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 13.039 | 91   | 479970   | 53.460  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.257 | 119  | 539283   | 53.808  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.304 | 105  | 588594   | 54.001  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.433 | 105  | 716233   | 53.571  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.551 | 119  | 577469   | 53.349  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.551 | 146  | 294864   | 51.748  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.627 | 146  | 294967   | 51.146  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.874 | 91   | 460354   | 52.084  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.145 | 117  | 114377   | 56.050  | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.921 | 146  | 313269   | 52.718  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.539 | 75   | 63013    | 52.083  | ug/l   | 88       |
| 93) 1,2,4-Trichlorobenzene    | 15.192 | 180  | 156055   | 47.453  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.298 | 225  | 64993    | 45.415  | ug/l   | 98       |
| 95) Naphthalene               | 15.427 | 128  | 642508   | 48.296  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.621 | 180  | 162499   | 46.273  | ug/l   | 99       |

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 ALS Vial : 7 Sample Multiplier: 1

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 MSVOA\_N  
**ClientSampleId :**  
 MW-6MSD

**Manual Integrations**  
**APPROVED**

Reviewed By : John Carlone 06/24/2022  
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 24 01:17:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 06:22:45 2022  
 Response via : Initial Calibration

| Compound                                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

