

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111623\  
 Data File : VN080140.D  
 Acq On : 16 Nov 2023 17:58  
 Operator : JC\MD  
 Sample : VN1116WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1116WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/17/2023  
 Supervised By : Mahesh Dadoda 11/17/2023

Quant Time: Nov 17 01:25:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.229          | 168  | 258089     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 416950     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 376397     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 180152     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 174793     | 41.017   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 82.040%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 127190     | 41.342   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 82.680%  |        |          |
| 50) Toluene-d8               | 10.570         | 98   | 470776     | 42.449   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 84.900%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 175324     | 41.853   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 83.700%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 69723      | 18.136   | ug/l   | 98       |
| 3) Chloromethane             | 2.359          | 50   | 52969      | 18.326   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.512          | 62   | 56534      | 18.483   | ug/l   | 98       |
| 5) Bromomethane              | 2.953          | 94   | 38104      | 18.350   | ug/l   | 100      |
| 6) Chloroethane              | 3.124          | 64   | 36043      | 17.950   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 114879     | 18.004   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.965          | 74   | 33131      | 17.854   | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 51609      | 17.696   | ug/l   | 92       |
| 10) Methyl Iodide            | 4.594          | 142  | 57960      | 18.389   | ug/l   | 94       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 48241      | 102.941  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 50018      | 18.336   | ug/l   | 90       |
| 13) Acrolein                 | 4.177          | 56   | 42209      | 101.775  | ug/l   | 97       |
| 14) Allyl chloride           | 5.024          | 41   | 63530      | 18.511   | ug/l   | 94       |
| 15) Acrylonitrile            | 5.718          | 53   | 129065     | 102.592  | ug/l   | 99       |
| 16) Acetone                  | 4.430          | 43   | 110935     | 77.505   | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.712          | 76   | 140378     | 17.235   | ug/l   | 96       |
| 18) Methyl Acetate           | 5.036          | 43   | 85254      | 18.538   | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.800          | 73   | 178717     | 18.552   | ug/l   | 97       |
| 20) Methylene Chloride       | 5.277          | 84   | 59251      | 19.767   | ug/l # | 91       |
| 21) trans-1,2-Dichloroethene | 5.788          | 96   | 55645      | 18.569   | ug/l # | 82       |
| 22) Diisopropyl ether        | 6.671          | 45   | 150618     | 19.836   | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.606          | 43   | 456237     | 99.945   | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 102724     | 18.575   | ug/l   | 99       |
| 25) 2-Butanone               | 7.488          | 43   | 154485     | 90.843   | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 97869      | 17.837   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 63381      | 18.655   | ug/l   | 90       |
| 28) Bromochloromethane       | 7.818          | 49   | 36787      | 16.920   | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 97457      | 106.744  | ug/l   | 91       |
| 30) Chloroform               | 7.971          | 83   | 116087     | 18.780   | ug/l   | 90       |
| 31) Cyclohexane              | 8.259          | 56   | 86682      | 18.704   | ug/l   | 86       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 110818     | 18.384   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 82282      | 18.473   | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.565          | 43   | 65581      | 21.226   | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 100239     | 17.734   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.606          | 83   | 79792      | 18.579   | ug/l   | 91       |
| 40) Benzene                  | 8.612          | 78   | 237154     | 18.733   | ug/l   | 95       |

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 Sample : VN1116WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1116WBSD01

Quant Time: Nov 17 01:25:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/17/2023  
 Supervised By :Mahesh Dadoda 11/17/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.782  | 41   | 32368    | 19.077  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 96796    | 18.689  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 104872   | 17.443  | ug/l   | 97       |
| 44) Trichloroethene           | 9.353  | 130  | 57427    | 17.294  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.623  | 63   | 54698    | 18.592  | ug/l   | 97       |
| 46) Dibromomethane            | 9.718  | 93   | 41465    | 18.620  | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.894  | 83   | 89958    | 18.364  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.682  | 41   | 60152    | 19.414  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 21530    | 417.692 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 319210   | 102.550 | ug/l   | 96       |
| 52) Toluene                   | 10.635 | 92   | 148510   | 18.745  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 91788    | 18.237  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 98631    | 19.181  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 57823    | 19.123  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 60929    | 19.724  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 101367   | 19.200  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 195433   | 112.299 | ug/l   | 95       |
| 59) 2-Hexanone                | 11.200 | 43   | 237473   | 94.942  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.365 | 129  | 67394    | 18.616  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 59031    | 19.136  | ug/l   | 95       |
| 64) Tetrachloroethene         | 11.106 | 164  | 53842    | 18.744  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.894 | 112  | 156375   | 18.335  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 62072    | 18.754  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.965 | 91   | 277198   | 18.265  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.070 | 106  | 209047   | 37.778  | ug/l   | 91       |
| 69) o-Xylene                  | 12.400 | 106  | 98536    | 18.895  | ug/l   | 88       |
| 70) Styrene                   | 12.412 | 104  | 148158   | 19.088  | ug/l   | 94       |
| 71) Bromoform                 | 12.582 | 173  | 45615    | 18.584  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 263443   | 18.819  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 84914    | 19.451  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 80757    | 19.274  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 79560m   | 18.024  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 64150    | 18.176  | ug/l   | 96       |
| 78) n-propylbenzene           | 13.041 | 91   | 289967   | 18.523  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 191667   | 18.851  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 228402   | 18.743  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 27615    | 21.137  | ug/l # | 83       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 195259   | 18.746  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 184053   | 18.834  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 224708   | 18.727  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 230939   | 18.681  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 205411   | 18.600  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 112092   | 17.627  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 112583   | 17.617  | ug/l   | 96       |
| 89) n-Butylbenzene            | 14.059 | 91   | 162419   | 17.572  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 40180    | 18.663  | ug/l   | 76       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146  | 110998   | 18.241  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 18807    | 19.325  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 57979    | 16.382  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.505 | 225  | 30606    | 15.027  | ug/l   | 97       |
| 95) Naphthalene               | 15.647 | 128  | 170300   | 16.594  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 56816    | 17.127  | ug/l   | 97       |

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ALS Vial : 15 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/17/2023  
Supervised By :Mahesh Dadoda 11/17/2023

Quant Time: Nov 17 01:25:33 2023  
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Quant Title : SW846 8260  
QLast Update : Fri Nov 17 01:19:32 2023  
Response via : Initial Calibration

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

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

