

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061721\  
 Data File : VN067379.D  
 Acq On : 17 Jun 2021 16:13  
 Operator : JC/MD  
 Sample : VN0617WBSD02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0617WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 6/18/2021 9:13:12 AM

Quant Time: Jun 18 05:10:07 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061421W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 15 05:19:42 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 293589              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 593462              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.749         | 117  | 535565              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.678         | 152  | 211837              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.440          | 65   | 296779              | 51.242  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 102.480% |         |        |          |
| 35) Dibromofluoromethane     | 8.024          | 113  | 187935              | 47.615  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 95.220%  |         |        |          |
| 50) Toluene-d8               | 10.443         | 98   | 732409              | 48.414  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 96.820%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.733         | 95   | 284794              | 45.617  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 91.240%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 95252               | 20.639  | ug/l   | 99       |
| 3) Chloromethane             | 2.301          | 50   | 95007               | 21.316  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.445          | 62   | 88475               | 20.248  | ug/l   | 99       |
| 5) Bromomethane              | 2.858          | 94   | 49848               | 26.889  | ug/l   | 99       |
| 6) Chloroethane              | 3.019          | 64   | 56703               | 21.124  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.376          | 101  | 123930              | 20.433  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.824          | 74   | 54478               | 22.082  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.205          | 101  | 78626               | 21.553  | ug/l # | 85       |
| 10) Methyl Iodide            | 4.419          | 142  | 76345               | 24.384  | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.385          | 59   | 93109               | 97.656  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.173          | 96   | 75382               | 21.409  | ug/l   | 98       |
| 13) Acrolein                 | 4.039          | 56   | 76003               | 127.707 | ug/l   | 98       |
| 14) Allyl chloride           | 4.838          | 41   | 156451              | 20.026  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.557          | 53   | 231034              | 110.402 | ug/l   | 98       |
| 16) Acetone                  | 4.291          | 43   | 212002              | 95.386  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.524          | 76   | 234738              | 20.640  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.859          | 43   | 111556              | 20.700  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.621          | 73   | 315058              | 22.291  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.093          | 84   | 95250               | 20.597  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.597          | 96   | 81128               | 20.791  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.501          | 45   | 315777              | 21.897  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.436          | 43   | 1409902             | 106.696 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.388          | 63   | 176393              | 21.804  | ug/l   | 98       |
| 25) 2-Butanone               | 7.340          | 43   | 324960              | 102.320 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.327          | 77   | 160697              | 19.598  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.327          | 96   | 96525               | 21.023  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.662          | 49   | 82270               | 21.852  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.691          | 42   | 213529              | 106.639 | ug/l   | 99       |
| 30) Chloroform               | 7.820          | 83   | 175197              | 20.627  | ug/l   | 99       |
| 31) Cyclohexane              | 8.094          | 56   | 167074              | 21.220  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 150782              | 19.327  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.222          | 75   | 131502              | 19.765  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.415          | 43   | 139160              | 19.742  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 119898              | 16.766  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.461          | 83   | 151426              | 21.505  | ug/l   | 97       |
| 40) Benzene                  | 8.461          | 78   | 381424              | 20.540  | ug/l   | 99       |

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 ALS Vial : 10 Sample Multiplier: 1

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Manual Integrations  
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MMDadoda  
 6/18/2021 9:13:12 AM

Quant Time: Jun 18 05:10:07 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061421W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 15 05:19:42 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.640  | 41   | 74843    | 20.425  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 154904   | 19.741  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.566  | 43   | 246197   | 19.460  | ug/l   | 98       |
| 44) Trichloroethene           | 9.220  | 130  | 81562    | 18.782  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.494  | 63   | 103910   | 20.980  | ug/l   | 98       |
| 46) Dibromomethane            | 9.580  | 93   | 65673    | 19.490  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.765  | 83   | 141845   | 18.766  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.563  | 41   | 107194   | 18.582  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.571  | 88   | 30448    | 385.637 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43   | 708199   | 97.225  | ug/l   | 100      |
| 52) Toluene                   | 10.507 | 92   | 225842   | 19.341  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.722 | 75   | 160349   | 19.158  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.191 | 75   | 168223   | 19.886  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.902 | 97   | 88738    | 19.655  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.765 | 69   | 159046   | 19.595  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.047 | 76   | 163785   | 19.860  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.043 | 63   | 177885   | 75.307  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.087 | 43   | 493949   | 92.560  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.242 | 129  | 88751    | 17.979  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.350 | 107  | 88339    | 18.689  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.980 | 164  | 73647    | 19.367  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.773 | 112  | 229658   | 19.706  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.846 | 131  | 80796    | 18.617  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.848 | 91   | 452338   | 19.627  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.956 | 106  | 319379   | 38.984  | ug/l   | 99       |
| 69) o-Xylene                  | 12.283 | 106  | 154548   | 19.286  | ug/l   | 99       |
| 70) Styrene                   | 12.296 | 104  | 258110   | 19.378  | ug/l   | 99       |
| 71) Bromoform                 | 12.460 | 173  | 54368    | 16.395  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.583 | 105  | 408614   | 20.102  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.390 | 43   | 197230   | 19.875  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 127610   | 21.058  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.884 | 75   | 119132m  | 21.656  | ug/l   |          |
| 77) Bromobenzene              | 12.865 | 156  | 79893    | 19.300  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.924 | 91   | 506329   | 20.943  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 307462   | 20.424  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 342337   | 19.993  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.629 | 75   | 39952    | 17.999  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 13.109 | 91   | 304426   | 20.310  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.326 | 119  | 273721   | 20.076  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.372 | 105  | 343277   | 20.292  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.506 | 105  | 409957   | 21.237  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.619 | 119  | 320362   | 20.563  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.619 | 146  | 145661   | 19.508  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 148086   | 19.717  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.946 | 91   | 318643   | 21.767  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.214 | 117  | 58793    | 19.297  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 144653   | 20.417  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.606 | 75   | 26963    | 17.798  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 70636    | 19.096  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.373 | 225  | 37200    | 17.512  | ug/l   | 98       |
| 95) Naphthalene               | 15.509 | 128  | 225074   | 19.188  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.702 | 180  | 67514    | 19.012  | ug/l   | 99       |

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ALS Vial : 10 Sample Multiplier: 1

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Manual Integrations  
APPROVED

MMDadoda  
6/18/2021 9:13:12 AM

Quant Time: Jun 18 05:10:07 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061421W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 15 05:19:42 2021  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

