

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101821\  
 Data File : VN068970.D  
 Acq On : 18 Oct 2021 11:21  
 Operator : JC/MD  
 Sample : VN1018WBS01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1018WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/19/2021 5:23:29 PM

Quant Time: Oct 19 06:33:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 333596              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 600375              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.747         | 117  | 545905              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.675         | 152  | 229213              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 244282              | 55.539  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 111.080% |         |        |          |
| 35) Dibromofluoromethane     | 8.021          | 113  | 188507              | 53.967  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 107.940% |         |        |          |
| 50) Toluene-d8               | 10.443         | 98   | 763772              | 54.648  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 109.300% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.731         | 95   | 274052              | 51.972  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 103.940% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 74156               | 18.651  | ug/l   | 100      |
| 3) Chloromethane             | 2.303          | 50   | 85901               | 21.067  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.446          | 62   | 97614               | 23.570  | ug/l   | 100      |
| 5) Bromomethane              | 2.856          | 94   | 64620               | 28.366  | ug/l   | 99       |
| 6) Chloroethane              | 3.019          | 64   | 60944               | 24.970  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.376          | 101  | 124434              | 21.457  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.829          | 74   | 45050               | 20.826  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.218          | 101  | 67281               | 21.576  | ug/l   | 100      |
| 10) Methyl Iodide            | 4.428          | 142  | 84372               | 18.642  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.361          | 59   | 81701               | 101.657 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.189          | 96   | 65179               | 20.221  | ug/l   | 99       |
| 13) Acrolein                 | 4.047          | 56   | 16980               | 47.759  | ug/l   | 98       |
| 14) Allyl chloride           | 4.843          | 41   | 118210              | 20.457  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.551          | 53   | 189584              | 105.275 | ug/l   | 97       |
| 16) Acetone                  | 4.288          | 43   | 208660              | 127.125 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.535          | 76   | 174505              | 19.948  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.854          | 43   | 136569              | 21.936  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.618          | 73   | 255949              | 21.325  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.098          | 84   | 78352               | 20.740  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.605          | 96   | 71090               | 20.414  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.498          | 45   | 252836              | 21.040  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.434          | 43   | 957442              | 105.394 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.391          | 63   | 141558              | 21.682  | ug/l   | 99       |
| 25) 2-Butanone               | 7.335          | 43   | 284999              | 114.824 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.327          | 77   | 132493              | 21.294  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.329          | 96   | 88802               | 21.095  | ug/l   | 100      |
| 28) Bromochloromethane       | 7.657          | 49   | 63990               | 21.640  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.683          | 42   | 176784              | 109.807 | ug/l   | 99       |
| 30) Chloroform               | 7.820          | 83   | 148381              | 21.565  | ug/l   | 98       |
| 31) Cyclohexane              | 8.096          | 56   | 135278              | 19.781  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 134241              | 20.928  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.222          | 75   | 107819              | 21.025  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.413          | 43   | 109082              | 20.596  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.209          | 117  | 115493              | 20.506  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.462          | 83   | 137525              | 20.836  | ug/l   | 99       |
| 40) Benzene                  | 8.461          | 78   | 330769              | 21.182  | ug/l   | 100      |

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 Sample : VN1018WBS01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1018WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/19/2021 5:23:29 PM

Quant Time: Oct 19 06:33:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.638  | 41   | 54958    | 20.585  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 118297   | 21.393  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.560  | 43   | 200633   | 21.470  | ug/l   | 100      |
| 44) Trichloroethene           | 9.217  | 130  | 80544    | 20.609  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 84797    | 20.927  | ug/l   | 98       |
| 46) Dibromomethane            | 9.580  | 93   | 57966    | 20.957  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.762  | 83   | 119495   | 20.848  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.561  | 41   | 89252    | 20.327  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.569  | 88   | 31958    | 395.766 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.331 | 43   | 581375   | 107.294 | ug/l   | 100      |
| 52) Toluene                   | 10.505 | 92   | 212825   | 21.184  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 135515   | 20.872  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.191 | 75   | 138694   | 20.532  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.899 | 97   | 82858    | 20.918  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 137713   | 20.707  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 141458   | 21.658  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 158181   | 93.546  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.084 | 43   | 425177   | 109.418 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.240 | 129  | 89145    | 19.938  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.347 | 107  | 86089    | 21.189  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.980 | 164  | 71243    | 20.259  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.771 | 112  | 221683   | 21.460  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 86205    | 21.321  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.846 | 91   | 416513   | 21.706  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.953 | 106  | 310608   | 42.700  | ug/l   | 100      |
| 69) o-Xylene                  | 12.280 | 106  | 154179   | 21.175  | ug/l   | 99       |
| 70) Styrene                   | 12.296 | 104  | 251711   | 21.237  | ug/l   | 100      |
| 71) Bromoform                 | 12.460 | 173  | 64380    | 19.877  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.581 | 105  | 404861   | 21.221  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.388 | 43   | 149865   | 20.734  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827 | 83   | 122573   | 22.231  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.881 | 75   | 107795m  | 22.103  | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 86559    | 20.518  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.921 | 91   | 456587   | 21.296  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 281445   | 21.297  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 338443   | 21.297  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 39873    | 19.560  | ug/l   | 100      |
| 82) 4-Chlorotoluene           | 13.106 | 91   | 270068   | 21.148  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.324 | 119  | 297240   | 21.487  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105  | 326642   | 21.333  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.503 | 105  | 411555   | 21.482  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.619 | 119  | 326006   | 21.215  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 153635   | 21.053  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 151989   | 20.985  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.943 | 91   | 266436   | 20.827  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.211 | 117  | 66507    | 20.603  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.989 | 146  | 150148   | 21.181  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.603 | 75   | 22991    | 21.628  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 64307    | 18.437  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.373 | 225  | 39288    | 19.464  | ug/l   | 99       |
| 95) Naphthalene               | 15.507 | 128  | 169486   | 18.530  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.703 | 180  | 60648    | 18.238  | ug/l   | 100      |

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Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1018WBS01

Manual Integrations  
APPROVED

MMDadoda  
10/19/2021 5:23:29 PM

Quant Time: Oct 19 06:33:00 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 2021  
Response via : Initial Calibration

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

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

