

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081021\  
 Data File : VN068052.D  
 Acq On : 10 Aug 2021 9:49  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 8/11/2021 5:05:20 PM

Quant Time: Aug 11 06:30:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 29 15:02:35 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 422241     | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 737488     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.747         | 117  | 730927     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.678         | 152  | 359695     | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 287627     | 48.118   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 96.240%  |       |          |
| 35) Dibromofluoromethane     | 8.021          | 113  | 224672     | 52.274   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 104.540% |       |          |
| 50) Toluene-d8               | 10.443         | 98   | 906603     | 46.038   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 92.080%  |       |          |
| 62) 4-Bromofluorobenzene     | 12.734         | 95   | 336608     | 46.725   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 93.440%  |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.070          | 85   | 209035     | 48.315   | ug/l  | 100      |
| 3) Chloromethane             | 2.298          | 50   | 233109     | 43.374   | ug/l  | 98       |
| 4) Vinyl Chloride            | 2.443          | 62   | 357306     | 42.611   | ug/l  | 98       |
| 5) Bromomethane              | 2.824          | 94   | 306230     | 40.977   | ug/l  | 99       |
| 6) Chloroethane              | 3.001          | 64   | 271356     | 41.736   | ug/l  | 99       |
| 7) Trichlorofluoromethane    | 3.363          | 101  | 648556     | 42.683   | ug/l  | 98       |
| 8) Diethyl Ether             | 3.819          | 74   | 138169     | 47.854   | ug/l  | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 4.194          | 101  | 206245     | 47.085   | ug/l  | 94       |
| 10) Methyl Iodide            | 4.414          | 142  | 255608     | 45.005   | ug/l  | 90       |
| 11) Tert butyl alcohol       | 5.388          | 59   | 197549     | 246.661  | ug/l  | # 85     |
| 12) 1,1-Dichloroethene       | 4.170          | 96   | 188785     | 47.152   | ug/l  | 87       |
| 13) Acrolein                 | 4.033          | 56   | 184523     | 339.497  | ug/l  | 100      |
| 14) Allyl chloride           | 4.830          | 41   | 319136     | 46.935   | ug/l  | 97       |
| 15) Acrylonitrile            | 5.554          | 53   | 579923     | 258.348  | ug/l  | 99       |
| 16) Acetone                  | 4.285          | 43   | 503358     | 230.787  | ug/l  | 92       |
| 17) Carbon Disulfide         | 4.519          | 76   | 496128     | 42.727   | ug/l  | 99       |
| 18) Methyl Acetate           | 4.857          | 43   | 264470     | 50.435   | ug/l  | 93       |
| 19) Methyl tert-butyl Ether  | 5.613          | 73   | 758442     | 50.463   | ug/l  | 99       |
| 20) Methylene Chloride       | 5.087          | 84   | 233592     | 46.362   | ug/l  | 89       |
| 21) trans-1,2-Dichloroethene | 5.589          | 96   | 219967     | 47.237   | ug/l  | 88       |
| 22) Diisopropyl ether        | 6.495          | 45   | 761556     | 50.454   | ug/l  | 97       |
| 23) Vinyl Acetate            | 6.434          | 43   | 3213711m   | 226.254  | ug/l  |          |
| 24) 1,1-Dichloroethane       | 6.380          | 63   | 412348     | 47.238   | ug/l  | 98       |
| 25) 2-Butanone               | 7.337          | 43   | 790885     | 249.945  | ug/l  | 94       |
| 26) 2,2-Dichloropropane      | 7.327          | 77   | 368232     | 48.232   | ug/l  | 94       |
| 27) cis-1,2-Dichloroethene   | 7.324          | 96   | 264672     | 47.810   | ug/l  | 86       |
| 28) Bromochloromethane       | 7.657          | 49   | 197753     | 47.498   | ug/l  | # 79     |
| 29) Tetrahydrofuran          | 7.689          | 42   | 520564     | 256.910  | ug/l  | 91       |
| 30) Chloroform               | 7.817          | 83   | 467556     | 48.363   | ug/l  | 99       |
| 31) Cyclohexane              | 8.091          | 56   | 368471     | 41.788   | ug/l  | 93       |
| 32) 1,1,1-Trichloroethane    | 8.013          | 97   | 401934     | 48.132   | ug/l  | 97       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 330243     | 48.411   | ug/l  | 95       |
| 37) Ethyl Acetate            | 7.412          | 43   | 320662     | 49.947   | ug/l  | 98       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 349622     | 52.114   | ug/l  | 99       |
| 39) Methylcyclohexane        | 9.459          | 83   | 375589     | 50.947   | ug/l  | 92       |
| 40) Benzene                  | 8.458          | 78   | 1025421    | 50.775   | ug/l  | 100      |

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 ALS Vial : 2 Sample Multiplier: 1

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 VSTDCCC050

Manual Integrations  
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MMDadoda  
 8/11/2021 5:05:20 PM

Quant Time: Aug 11 06:30:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 29 15:02:35 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.635  | 41   | 163098   | 53.328   | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 376364   | 50.456   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.563  | 43   | 575920   | 53.833   | ug/l   | 96       |
| 44) Trichloroethene           | 9.217  | 130  | 257228   | 50.356   | ug/l   | 84       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 258002   | 51.274   | ug/l   | 100      |
| 46) Dibromomethane            | 9.580  | 93   | 192745   | 52.981   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.762  | 83   | 376315   | 54.275   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.561  | 41   | 247658   | 46.594   | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.571  | 88   | 96513    | 1134.165 | ug/l   | 87       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43   | 1815060  | 233.669  | ug/l   | 95       |
| 52) Toluene                   | 10.507 | 92   | 693005   | 52.810   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.722 | 75   | 411885   | 46.930   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.191 | 75   | 433496   | 47.615   | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.899 | 97   | 275038   | 54.060   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 422125   | 46.384   | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.047 | 76   | 445922   | 53.752   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.044 | 63   | 420237   | 237.041  | ug/l   | 91       |
| 59) 2-Hexanone                | 11.089 | 43   | 1313282  | 237.074  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.240 | 129  | 303675   | 47.939   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.347 | 107  | 287837   | 55.089   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.980 | 164  | 235506   | 44.987   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.773 | 112  | 760608   | 51.163   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 287130   | 47.978   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.848 | 91   | 1376313  | 51.988   | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.956 | 106  | 1098901  | 95.217   | ug/l   | 83       |
| 69) o-Xylene                  | 12.283 | 106  | 529362   | 54.391   | ug/l   | 85       |
| 70) Styrene                   | 12.296 | 104  | 894007   | 46.757   | ug/l   | 92       |
| 71) Bromoform                 | 12.460 | 173  | 216330   | 46.602   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.581 | 105  | 1350820  | 46.030   | ug/l   | 96       |
| 74) N-amyl acetate            | 12.390 | 43   | 494751   | 48.503   | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 417871   | 47.121   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.884 | 75   | 372037m  | 51.502   | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 327469   | 48.599   | ug/l   | 73       |
| 78) n-propylbenzene           | 12.924 | 91   | 1580176  | 47.714   | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 951178   | 47.126   | ug/l   | 89       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 1139824  | 47.919   | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.629 | 75   | 120750   | 46.649   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.106 | 91   | 964814   | 47.612   | ug/l   | 90       |
| 83) tert-Butylbenzene         | 13.326 | 119  | 949408   | 48.002   | ug/l   | 88       |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105  | 1148508  | 49.835   | ug/l   | 93       |
| 85) sec-Butylbenzene          | 13.503 | 105  | 1353358  | 48.918   | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.619 | 119  | 1131085  | 51.388   | ug/l   | 92       |
| 87) 1,3-Dichlorobenzene       | 13.619 | 146  | 618856   | 50.003   | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 602751   | 49.317   | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.946 | 91   | 922293   | 48.866   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.214 | 117  | 194993   | 51.794   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 576271   | 49.448   | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.606 | 75   | 69471    | 49.067   | ug/l   | 69       |
| 93) 1,2,4-Trichlorobenzene    | 15.268 | 180  | 249927   | 47.962   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.373 | 225  | 118061   | 48.752   | ug/l   | 98       |
| 95) Naphthalene               | 15.507 | 128  | 694137   | 46.521   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.702 | 180  | 231272   | 46.952   | ug/l   | 98       |

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

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