

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060421\  
 Data File : VN067220.D  
 Acq On : 5 Jun 2021 1:08  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/7/2021 7:21:14 PM

Quant Time: Jun 05 05:36:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060421W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 04 19:00:20 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.091          | 168  | 137052              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.971          | 114  | 252323              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.752         | 117  | 273779              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.680         | 152  | 189317              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.445          | 65   | 97026               | 51.936  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 103.880% |         |        |          |
| 35) Dibromofluoromethane     | 8.027          | 113  | 75729               | 48.413  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 96.820%  |         |        |          |
| 50) Toluene-d8               | 10.446         | 98   | 348721              | 54.739  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 109.480% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.736         | 95   | 150313              | 61.262  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 122.520% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 62009               | 40.184  | ug/l   | 98       |
| 3) Chloromethane             | 2.298          | 50   | 118539              | 61.017  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.446          | 62   | 162850              | 66.132  | ug/l   | 99       |
| 5) Bromomethane              | 2.864          | 94   | 121837              | 65.242  | ug/l   | 97       |
| 6) Chloroethane              | 3.025          | 64   | 120465              | 70.549  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.382          | 101  | 103208              | 45.345  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.832          | 74   | 41744               | 47.464  | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 4.224          | 101  | 58810               | 45.003  | ug/l   | 90       |
| 10) Methyl Iodide            | 4.433          | 142  | 71464               | 42.698  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 5.366          | 59   | 67831               | 221.375 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.191          | 96   | 60144               | 46.016  | ug/l   | 93       |
| 13) Acrolein                 | 4.049          | 56   | 21817               | 251.012 | ug/l   | 91       |
| 14) Allyl chloride           | 4.846          | 41   | 112981              | 47.275  | ug/l # | 86       |
| 15) Acrylonitrile            | 5.562          | 53   | 162279              | 241.464 | ug/l   | 98       |
| 16) Acetone                  | 4.288          | 43   | 134848              | 209.187 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.540          | 76   | 177320              | 46.447  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.857          | 43   | 89005               | 48.708  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.621          | 73   | 220664              | 47.548  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.103          | 84   | 74736               | 46.039  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.602          | 96   | 69679               | 45.867  | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.501          | 45   | 236220              | 51.553  | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.439          | 43   | 1153066             | 258.803 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.391          | 63   | 138438              | 50.040  | ug/l   | 98       |
| 25) 2-Butanone               | 7.340          | 43   | 260759              | 252.615 | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 7.332          | 77   | 107360              | 40.174  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.329          | 96   | 87553               | 49.754  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.662          | 49   | 70700               | 51.748  | ug/l # | 78       |
| 29) Tetrahydrofuran          | 7.689          | 42   | 166953              | 271.984 | ug/l   | 90       |
| 30) Chloroform               | 7.823          | 83   | 151380              | 50.582  | ug/l   | 99       |
| 31) Cyclohexane              | 8.099          | 56   | 118553              | 47.264  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.021          | 97   | 140010              | 50.093  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.228          | 75   | 116585              | 50.029  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.418          | 43   | 109784              | 48.872  | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.209          | 117  | 121816              | 47.865  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.464          | 83   | 128743              | 48.767  | ug/l   | 99       |
| 40) Benzene                  | 8.467          | 78   | 366514              | 50.686  | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/7/2021 7:21:14 PM

Quant Time: Jun 05 05:36:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060421W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 04 19:00:20 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.643  | 41   | 59625    | 51.272  | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.534  | 62   | 124859   | 50.287  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.566  | 43   | 219925   | 51.485  | ug/l   | 92       |
| 44) Trichloroethene           | 9.220  | 130  | 89650    | 49.270  | ug/l   | 84       |
| 45) 1,2-Dichloropropane       | 9.496  | 63   | 92272    | 51.255  | ug/l   | 97       |
| 46) Dibromomethane            | 9.582  | 93   | 63998    | 50.405  | ug/l # | 86       |
| 47) Bromodichloromethane      | 9.765  | 83   | 133720   | 51.690  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.563  | 41   | 93184    | 50.343  | ug/l # | 84       |
| 49) 1,4-Dioxane               | 9.577  | 88   | 25455    | 870.329 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.336 | 43   | 688593   | 275.071 | ug/l   | 91       |
| 52) Toluene                   | 10.510 | 92   | 272253   | 57.082  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.725 | 75   | 159631   | 52.325  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.194 | 75   | 154142   | 49.948  | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 10.904 | 97   | 98399    | 54.350  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.768 | 69   | 161773   | 54.753  | ug/l # | 83       |
| 57) 1,3-Dichloropropane       | 11.049 | 76   | 163546   | 54.812  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 10.046 | 63   | 176329   | 280.885 | ug/l   | 96       |
| 59) 2-Hexanone                | 11.089 | 43   | 507442   | 278.921 | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.242 | 129  | 117816   | 55.073  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.350 | 107  | 104156   | 54.684  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.982 | 164  | 95265    | 51.152  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.776 | 112  | 289702   | 49.641  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.846 | 131  | 116193   | 52.359  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.849 | 91   | 575916   | 53.638  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.958 | 106  | 485860   | 115.290 | ug/l   | 97       |
| 69) o-Xylene                  | 12.286 | 106  | 230283   | 55.913  | ug/l   | 93       |
| 70) Styrene                   | 12.299 | 104  | 408198   | 58.037  | ug/l   | 97       |
| 71) Bromoform                 | 12.465 | 173  | 104241   | 57.011  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.586 | 105  | 624463   | 43.350  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.393 | 43   | 238934   | 41.159  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.833 | 83   | 165736   | 40.386  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.884 | 75   | 154182m  | 42.350  | ug/l   |          |
| 77) Bromobenzene              | 12.865 | 156  | 141468   | 43.131  | ug/l   | 85       |
| 78) n-propylbenzene           | 12.927 | 91   | 736438   | 43.875  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.109 | 91   | 474337   | 46.544  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.066 | 105  | 562972   | 45.135  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.632 | 75   | 59965    | 40.299  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.012 | 91   | 440298   | 44.999  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.329 | 119  | 495926   | 46.454  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.372 | 105  | 570712   | 46.004  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.506 | 105  | 681746   | 46.005  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.621 | 119  | 604337   | 46.072  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.621 | 146  | 304227   | 48.647  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.699 | 146  | 306030   | 48.412  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.948 | 91   | 522795   | 44.285  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.214 | 117  | 98348    | 43.589  | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 294973   | 47.876  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.608 | 75   | 35751    | 42.122  | ug/l   | 82       |
| 93) 1,2,4-Trichlorobenzene    | 15.268 | 180  | 121663   | 42.966  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.375 | 225  | 65275    | 40.663  | ug/l   | 99       |
| 95) Naphthalene               | 15.512 | 128  | 316112   | 38.658  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.705 | 180  | 106850   | 42.509  | ug/l   | 97       |

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ALS Vial : 24 Sample Multiplier: 1

Instrument :  
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VSTDCCC050EC

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Quant Time: Jun 05 05:36:11 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060421W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 04 19:00:20 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

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