

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122922\  
 Data File : VN076055.D  
 Acq On : 29 Dec 2022 17:42  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Dec 30 05:36:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 8.230  | 168   | 303312   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106  | 114   | 484360   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871 | 117   | 442208   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794 | 152   | 227129   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583  | 65    | 164234   | 49.772   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 74 - 125 | Recovery | =      | 99.540%  |
| 35) Dibromofluoromethane     | 8.171  | 113   | 154909   | 51.644   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 103.280% |
| 50) Toluene-d8               | 10.571 | 98    | 556558   | 49.626   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 86 - 113 | Recovery | =      | 99.260%  |
| 62) 4-Bromofluorobenzene     | 12.853 | 95    | 195259   | 52.566   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 83 - 123 | Recovery | =      | 105.140% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 157468   | 73.118   | ug/l   | 99       |
| 3) Chloromethane             | 2.377  | 50    | 148692   | 55.524   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.530  | 62    | 184495   | 57.755   | ug/l   | 98       |
| 5) Bromomethane              | 2.954  | 94    | 142562   | 52.512   | ug/l   | 94       |
| 6) Chloroethane              | 3.124  | 64    | 127472   | 53.886   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.506  | 101   | 260938   | 53.832   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.971  | 74    | 93855    | 53.013   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.389  | 101   | 149913   | 54.162   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.600  | 142   | 244036   | 54.328   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.536  | 59    | 114177   | 244.537  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.353  | 96    | 142033   | 52.835   | ug/l   | 98       |
| 13) Acrolein                 | 4.195  | 56    | 143050   | 249.905  | ug/l   | 97       |
| 14) Allyl chloride           | 5.036  | 41    | 159748   | 50.835   | ug/l   | 92       |
| 15) Acrylonitrile            | 5.730  | 53    | 319515   | 250.763  | ug/l   | 99       |
| 16) Acetone                  | 4.442  | 43    | 246627   | 216.817  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.724  | 76    | 350109   | 53.791   | ug/l   | 100      |
| 18) Methyl Acetate           | 5.036  | 43    | 172062   | 51.174   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.806  | 73    | 491729   | 55.547   | ug/l   | 93       |
| 20) Methylene Chloride       | 5.283  | 84    | 158765   | 52.204   | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.800  | 96    | 156191   | 53.053   | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.683  | 45    | 397697   | 52.096   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.612  | 43    | 1371132  | 266.849  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.583  | 63    | 257599   | 50.597   | ug/l   | 97       |
| 25) 2-Butanone               | 7.494  | 43    | 399888   | 251.077  | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.500  | 77    | 224567   | 52.085   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.494  | 96    | 183691   | 52.170   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.818  | 49    | 96120    | 43.074   | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.847  | 42    | 264300   | 264.804  | ug/l   | 99       |
| 30) Chloroform               | 7.971  | 83    | 290773   | 50.726   | ug/l   | 95       |
| 31) Cyclohexane              | 8.265  | 56    | 235989   | 49.936   | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.177  | 97    | 269829   | 53.095   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.377  | 75    | 210892   | 52.926   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.571  | 43    | 168077   | 52.514   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.371  | 117   | 239989   | 53.813   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.606  | 83    | 279335   | 58.108   | ug/l   | 96       |
| 40) Benzene                  | 8.612  | 78    | 650408   | 52.904   | ug/l   | 100      |

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 Acq On : 29 Dec 2022 17:42  
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 Sample : VSTDC0050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDC0050EC

Quant Time: Dec 30 05:36:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.789  | 41   | 88534    | 53.216   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 209061   | 51.150   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 298831   | 56.600   | ug/l   | 99       |
| 44) Trichloroethene           | 9.359  | 130  | 178781   | 51.619   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 153062   | 51.163   | ug/l   | 100      |
| 46) Dibromomethane            | 9.712  | 93   | 114938   | 51.799   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.894  | 83   | 229564   | 52.756   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.683  | 41   | 135031   | 56.785   | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 61309    | 1048.737 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 869280   | 272.251  | ug/l   | 100      |
| 52) Toluene                   | 10.635 | 92   | 432011   | 53.956   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 234983   | 55.166   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 261115   | 55.833   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 169283   | 53.866   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 241859   | 57.939   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 272315   | 52.826   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 360753   | 271.440  | ug/l   | 100      |
| 59) 2-Hexanone                | 11.200 | 43   | 629478   | 270.336  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.359 | 129  | 190268   | 54.440   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 173614   | 54.590   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 172630   | 55.477   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.894 | 112  | 455724   | 50.211   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 175886   | 52.319   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 824677   | 53.836   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 669001   | 110.342  | ug/l   | 99       |
| 69) o-Xylene                  | 12.400 | 106  | 331016   | 55.170   | ug/l   | 98       |
| 70) Styrene                   | 12.412 | 104  | 535984   | 56.183   | ug/l   | 99       |
| 71) Bromoform                 | 12.582 | 173  | 138943   | 56.799   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 854732   | 52.075   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 256571   | 53.285   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 235285   | 46.371   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 206318m  | 45.064   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 203193   | 48.917   | ug/l   | 97       |
| 78) n-propylbenzene           | 13.035 | 91   | 966674   | 53.399   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 569174   | 50.367   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 721824   | 52.546   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 70203    | 55.193   | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 13.129 | 91   | 569174   | 50.367   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 650856   | 53.738   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 736954   | 54.077   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 908712   | 54.358   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 776558   | 55.827   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 386115   | 50.322   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 381554   | 48.677   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 619313   | 54.957   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.335 | 117  | 133651   | 53.714   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 384214   | 50.837   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 42548    | 47.258   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 194425   | 51.962   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 103973   | 50.932   | ug/l   | 99       |
| 95) Naphthalene               | 15.647 | 128  | 580608   | 47.102   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 185996   | 53.185   | ug/l   | 100      |

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Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Quant Time: Dec 30 05:36:08 2022  
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Quant Title : SW846 8260  
QLast Update : Wed Dec 14 13:03:41 2022  
Response via : Initial Calibration

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

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

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