

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120722\  
 Data File : VN075635.D  
 Acq On : 08 Dec 2022 02:45  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/08/2022  
 Supervised By : Mahesh Dadoda 12/08/2022

Quant Time: Dec 08 06:45:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 23 00:18:03 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 141549               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 252037               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 229806               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 118365               | 50.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 48506                | 63.839  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 127.680%# |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 61633                | 62.250  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 124.500%# |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 114442               | 51.321  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 102.640%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 89951                | 54.650  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 109.300%  |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 48743                | 45.034  | ug/l   | 96       |
| 3) Chloromethane             | 2.371          | 50   | 75395                | 55.981  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.524          | 62   | 86891                | 51.192  | ug/l   | 97       |
| 5) Bromomethane              | 2.918          | 94   | 92730                | 62.127  | ug/l   | 99       |
| 6) Chloroethane              | 3.100          | 64   | 72167                | 56.112  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.489          | 101  | 106201               | 43.797  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.971          | 74   | 61518                | 72.385  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 60964                | 45.542  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.594          | 142  | 138630               | 63.911  | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.541          | 59   | 103214               | 323.593 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.347          | 96   | 66403                | 50.658  | ug/l   | 87       |
| 13) Acrolein                 | 4.189          | 56   | 95520                | 343.760 | ug/l   | 100      |
| 14) Allyl chloride           | 5.036          | 41   | 100456               | 59.247  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.730          | 53   | 233912               | 319.646 | ug/l   | 98       |
| 16) Acetone                  | 4.442          | 43   | 184121               | 259.793 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.712          | 76   | 166706               | 48.936  | ug/l   | 95       |
| 18) Methyl Acetate           | 5.036          | 43   | 125641               | 70.861  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 317133               | 68.296  | ug/l   | 96       |
| 20) Methylene Chloride       | 5.283          | 84   | 98069                | 68.717  | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 81259                | 54.395  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.688          | 45   | 257819               | 66.632  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.612          | 43   | 1062829m             | 345.270 | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 151445               | 60.978  | ug/l   | 97       |
| 25) 2-Butanone               | 7.494          | 43   | 294079               | 297.210 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 88286                | 38.249  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 107240               | 63.486  | ug/l   | 89       |
| 28) Bromochloromethane       | 7.818          | 49   | 68657                | 68.104  | ug/l   | 85       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 194024               | 322.375 | ug/l   | 97       |
| 30) Chloroform               | 7.971          | 83   | 173761               | 60.924  | ug/l   | 100      |
| 31) Cyclohexane              | 8.259          | 56   | 93954                | 38.920  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 135115               | 52.176  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 98156                | 45.461  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.571          | 43   | 118845               | 61.129  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 114073               | 48.094  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.606          | 83   | 113148               | 41.872  | ug/l   | 95       |
| 40) Benzene                  | 8.612          | 78   | 358740               | 54.267  | ug/l   | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/08/2022  
 Supervised By : Mahesh Dadoda 12/08/2022

Quant Time: Dec 08 06:45:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 23 00:18:03 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.782  | 41   | 61998    | 62.375   | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 135751   | 61.315   | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 250082   | 80.139   | ug/l   | 93       |
| 44) Trichloroethene           | 9.353  | 130  | 90517    | 50.041   | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.629  | 63   | 92808    | 58.912   | ug/l   | 94       |
| 46) Dibromomethane            | 9.712  | 93   | 73906    | 62.024   | ug/l # | 88       |
| 47) Bromodichloromethane      | 9.888  | 83   | 142237   | 61.641   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.688  | 41   | 91431    | 63.364   | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 49918    | 1218.302 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 630988   | 317.465  | ug/l   | 98       |
| 52) Toluene                   | 10.635 | 92   | 226432   | 53.153   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 144042   | 62.179   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 148835   | 59.155   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.023 | 97   | 107551   | 61.987   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 159568   | 68.100   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 172207   | 60.870   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 250199   | 296.069  | ug/l   | 95       |
| 59) 2-Hexanone                | 11.200 | 43   | 472403   | 316.522  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.365 | 129  | 121169   | 68.036   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 112908   | 62.697   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 72528    | 41.328   | ug/l   | 87       |
| 65) Chlorobenzene             | 11.894 | 112  | 254352   | 53.594   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 104356   | 58.916   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.970 | 91   | 409582   | 50.586   | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.076 | 106  | 335364   | 101.996  | ug/l   | 98       |
| 69) o-Xylene                  | 12.400 | 106  | 172547   | 52.818   | ug/l   | 97       |
| 70) Styrene                   | 12.412 | 104  | 291288   | 56.522   | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 92758    | 68.807   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 408605   | 47.250   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.500 | 43   | 181174   | 68.147   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 161273   | 61.170   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 124303m  | 55.543   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 118068   | 55.303   | ug/l   | 86       |
| 78) n-propylbenzene           | 13.041 | 91   | 454115   | 47.054   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 289500   | 49.786   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 361268   | 50.284   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 43036    | 56.897   | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 13.129 | 91   | 289500   | 49.786   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 305928   | 46.702   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 367749   | 51.029   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 419188   | 47.162   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 368240   | 49.242   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 206403   | 51.026   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 206478   | 50.250   | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 287730   | 45.555   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 63299    | 49.065   | ug/l   | 79       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146  | 216050   | 54.794   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 31310    | 62.692   | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 107801   | 53.351   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 51445    | 48.879   | ug/l   | 98       |
| 95) Naphthalene               | 15.647 | 128  | 369909   | 58.191   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 107773   | 54.268   | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/08/2022  
Supervised By :Mahesh Dadoda 12/08/2022

Quant Time: Dec 08 06:45:18 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 23 00:18:03 2022  
Response via : Initial Calibration

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

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

