

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093024\  
 Data File : VN084217.D  
 Acq On : 30 Sep 2024 14:00  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Quant Time: Oct 01 06:49:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 06:46:32 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 10/01/2024  
 Supervised By : Mahesh Dadoda 10/01/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 161547     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 288067     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 245710     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 112491     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.571          | 65   | 13262      | 5.537    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 11.080%# |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 10333      | 5.441    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 10.880%# |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 35782      | 5.121    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 10.240%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 13132      | 5.159    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 10.320%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.130          | 85   | 9807       | 5.132    | ug/l   | 94       |
| 3) Chloromethane             | 2.359          | 50   | 12064      | 5.529    | ug/l   | 92       |
| 4) Vinyl Chloride            | 2.512          | 62   | 11701      | 5.536    | ug/l   | 96       |
| 5) Bromomethane              | 2.947          | 94   | 8091       | 5.804    | ug/l   | 97       |
| 6) Chloroethane              | 3.118          | 64   | 8433       | 5.571    | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 17988      | 5.466    | ug/l   | 90       |
| 8) Diethyl Ether             | 3.953          | 74   | 6430       | 5.268    | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 10220m     | 5.420    | ug/l   |          |
| 10) Methyl Iodide            | 4.589          | 142  | 12344      | 5.083    | ug/l # | 97       |
| 11) Tert butyl alcohol       | 5.512          | 59   | 11537      | 29.211   | ug/l # | 91       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 10191      | 5.603    | ug/l   | 95       |
| 13) Acrolein                 | 4.177          | 56   | 13122      | 28.940   | ug/l   | 99       |
| 14) Allyl chloride           | 5.030          | 41   | 17724      | 5.611    | ug/l   | 90       |
| 15) Acrylonitrile            | 5.718          | 53   | 26537      | 26.607   | ug/l   | 99       |
| 16) Acetone                  | 4.430          | 43   | 27153      | 26.389   | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.712          | 76   | 30816      | 5.351    | ug/l   | 97       |
| 18) Methyl Acetate           | 5.024          | 43   | 12354      | 5.509    | ug/l # | 72       |
| 19) Methyl tert-butyl Ether  | 5.800          | 73   | 33101      | 5.392    | ug/l   | 97       |
| 20) Methylene Chloride       | 5.265          | 84   | 10809      | 5.168    | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 10126m     | 5.314    | ug/l   |          |
| 22) Diisopropyl ether        | 6.671          | 45   | 35654      | 5.457    | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.606          | 43   | 128057m    | 26.284   | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 19800      | 5.419    | ug/l   | 95       |
| 25) 2-Butanone               | 7.482          | 43   | 37739      | 26.929   | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 17552      | 5.327    | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 12388      | 5.380    | ug/l   | 99       |
| 28) Bromochloromethane       | 7.812          | 49   | 9996       | 6.131    | ug/l # | 95       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 23456      | 27.121   | ug/l   | 97       |
| 30) Chloroform               | 7.965          | 83   | 20341      | 5.359    | ug/l   | 92       |
| 31) Cyclohexane              | 8.259          | 56   | 21337      | 6.014    | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 18635      | 5.467    | ug/l # | 53       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 14527      | 5.266    | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.565          | 43   | 16138      | 5.702    | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 15700      | 5.188    | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.594          | 83   | 15377      | 5.009    | ug/l   | 94       |
| 40) Benzene                  | 8.606          | 78   | 45343      | 5.276    | ug/l   | 99       |

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 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Quant Time: Oct 01 06:49:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 06:46:32 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 10/01/2024  
 Supervised By : Mahesh Dadoda 10/01/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.782  | 41   | 7878     | 5.128   | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 15661    | 5.375   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.682  | 43   | 28029m   | 5.059   | ug/l   |          |
| 44) Trichloroethene           | 9.347  | 130  | 10921    | 5.440   | ug/l   | 87       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 11181    | 5.499   | ug/l   | 95       |
| 46) Dibromomethane            | 9.706  | 93   | 7207     | 5.253   | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.888  | 83   | 16407    | 5.382   | ug/l # | 97       |
| 48) Methyl methacrylate       | 9.676  | 41   | 11766    | 5.332   | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.688  | 88   | 4121     | 101.444 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 69730    | 25.883  | ug/l   | 99       |
| 52) Toluene                   | 10.629 | 92   | 26489    | 5.054   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 16242    | 5.227   | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 17448    | 5.220   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 9805     | 5.219   | ug/l   | 89       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 15794    | 5.109   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 17954    | 5.348   | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 38417    | 26.787  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.194 | 43   | 51488    | 25.570  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.359 | 129  | 11412    | 5.141   | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 10394    | 5.324   | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 9167     | 5.356   | ug/l   | 90       |
| 65) Chlorobenzene             | 11.888 | 112  | 28818    | 5.290   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 10054    | 5.358   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.965 | 91   | 49891    | 5.178   | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.065 | 106  | 35820    | 10.051  | ug/l   | 98       |
| 69) o-Xylene                  | 12.400 | 106  | 18041    | 5.350   | ug/l   | 96       |
| 70) Styrene                   | 12.412 | 104  | 28472    | 4.985   | ug/l   | 99       |
| 71) Bromoform                 | 12.582 | 173  | 7067     | 5.115   | ug/l # | 95       |
| 73) Isopropylbenzene          | 12.694 | 105  | 43468    | 5.064   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 19775    | 5.087   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 14517    | 5.624   | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 14072m   | 6.276   | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 11049    | 5.336   | ug/l   | 99       |
| 78) n-propylbenzene           | 13.035 | 91   | 51120    | 5.140   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 33161    | 5.225   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 36100    | 5.156   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 4595     | 4.797   | ug/l # | 79       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 33382    | 5.225   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 31990    | 5.140   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 36099    | 5.118   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.612 | 105  | 40954    | 4.931   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 34083    | 4.963   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 20730    | 5.337   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 21249    | 5.417   | ug/l   | 96       |
| 89) n-Butylbenzene            | 14.059 | 91   | 30253    | 4.858   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 7628     | 5.472   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 19905    | 5.226   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 3046     | 5.719   | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 9439     | 5.031   | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 5174     | 5.530   | ug/l   | 89       |
| 95) Naphthalene               | 15.641 | 128  | 30391    | 4.886   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 9245     | 4.923   | ug/l   | 98       |

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Sample : VSTDICC005  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/01/2024  
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:24 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 01 06:46:32 2024  
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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Manual Integrations  
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