

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052225\  
 Data File : VN086750.D  
 Acq On : 22 May 2025 08:21  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/23/2025  
 Supervised By : Mahesh Dadoda 05/23/2025

Quant Time: May 23 01:29:16 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051625W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 17 00:46:13 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 268645     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.094          | 114  | 454328     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 397309     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 188336     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 150631     | 40.577  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 81.160% |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 130768     | 48.330  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 96.660% |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 539281     | 48.096  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 96.200% |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 192277     | 48.566  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 97.140% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 142100     | 48.980  | ug/l   | 100      |
| 3) Chloromethane             | 2.359          | 50   | 177578     | 40.468  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.512          | 62   | 171712     | 43.572  | ug/l   | 98       |
| 5) Bromomethane              | 2.948          | 94   | 93279      | 41.058  | ug/l   | 97       |
| 6) Chloroethane              | 3.118          | 64   | 107933     | 41.808  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 220101     | 46.735  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.959          | 74   | 90022      | 46.270  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 139452     | 49.460  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.583          | 142  | 157580     | 44.931  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.512          | 59   | 136652     | 202.124 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 140374     | 46.848  | ug/l   | 97       |
| 13) Acrolein                 | 4.177          | 56   | 183518     | 253.918 | ug/l   | 99       |
| 14) Allyl chloride           | 5.018          | 41   | 188967     | 41.666  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.712          | 53   | 355858     | 212.585 | ug/l   | 100      |
| 16) Acetone                  | 4.424          | 43   | 285763     | 205.792 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.712          | 76   | 373189     | 44.984  | ug/l   | 99       |
| 18) Methyl Acetate           | 5.018          | 43   | 147771     | 38.021  | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.789          | 73   | 465365     | 45.612  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.271          | 84   | 155642     | 42.475  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.783          | 96   | 146800     | 46.338  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.665          | 45   | 434610     | 42.476  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.594          | 43   | 1609963    | 209.360 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 259048     | 43.122  | ug/l   | 98       |
| 25) 2-Butanone               | 7.477          | 43   | 439082     | 204.626 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.489          | 77   | 233544     | 47.109  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 176369     | 45.356  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.806          | 49   | 113388     | 41.544  | ug/l   | 88       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 284293     | 202.982 | ug/l   | 95       |
| 30) Chloroform               | 7.959          | 83   | 261897     | 43.557  | ug/l   | 100      |
| 31) Cyclohexane              | 8.253          | 56   | 227226     | 40.785  | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 225797     | 44.540  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 193624     | 48.515  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.553          | 43   | 170671     | 42.334  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 194806     | 49.540  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.594          | 83   | 220772     | 51.110  | ug/l   | 97       |
| 40) Benzene                  | 8.600          | 78   | 617321     | 47.415  | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/23/2025  
 Supervised By : Mahesh Dadoda 05/23/2025

Quant Time: May 23 01:29:16 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051625W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 17 00:46:13 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.771  | 41   | 94456    | 43.393  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.665  | 62   | 179813   | 44.331  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.683  | 43   | 303653   | 37.572  | ug/l   | 95       |
| 44) Trichloroethene           | 9.347  | 130  | 163686   | 52.126  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 144864   | 46.838  | ug/l   | 99       |
| 46) Dibromomethane            | 9.706  | 93   | 99046    | 47.460  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.882  | 83   | 207343   | 48.219  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.677  | 41   | 137836   | 44.012  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.688  | 88   | 62408    | 941.089 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 867486   | 212.844 | ug/l   | 96       |
| 52) Toluene                   | 10.624 | 92   | 393237   | 48.596  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 227886   | 50.055  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.306 | 75   | 245896   | 49.478  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 141966   | 47.031  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 240637   | 49.651  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 244868   | 47.088  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.153 | 63   | 542149   | 250.294 | ug/l   | 96       |
| 59) 2-Hexanone                | 11.194 | 43   | 635492   | 213.518 | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.359 | 129  | 160829   | 50.840  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 145555   | 47.986  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.100 | 164  | 166680   | 54.764  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.888 | 112  | 434264   | 49.845  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 142827   | 50.782  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.959 | 91   | 739840   | 49.578  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.065 | 106  | 584293   | 103.375 | ug/l   | 96       |
| 69) o-Xylene                  | 12.394 | 106  | 284069   | 50.553  | ug/l   | 100      |
| 70) Styrene                   | 12.406 | 104  | 478067   | 51.964  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 107128   | 53.558  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.694 | 105  | 678798   | 46.666  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.488 | 43   | 249083   | 40.985  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 185291   | 41.463  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 222570m  | 52.254  | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 170628   | 46.632  | ug/l   | 93       |
| 78) n-propylbenzene           | 13.029 | 91   | 787287   | 47.163  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 493894   | 45.504  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 565076   | 48.488  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 84134    | 49.849  | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 504030   | 46.872  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 480343   | 47.263  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.476 | 105  | 571940   | 49.283  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.612 | 105  | 669819   | 49.152  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.723 | 119  | 578026   | 51.747  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 314866   | 49.694  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.806 | 146  | 311786   | 49.665  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 487696   | 52.666  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 93193    | 50.283  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 14.100 | 146  | 297440   | 49.355  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 33939    | 45.845  | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 141097   | 55.466  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 57747    | 54.714  | ug/l   | 97       |
| 95) Naphthalene               | 15.635 | 128  | 464755   | 52.617  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 132698   | 53.267  | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/23/2025  
Supervised By :Mahesh Dadoda 05/23/2025

Quant Time: May 23 01:29:16 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051625W.M  
Quant Title : SW846 8260  
QLast Update : Sat May 17 00:46:13 2025  
Response via : Initial Calibration

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

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

