

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022725\  
 Data File : VN085880.D  
 Acq On : 27 Feb 2025 10:18  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/28/2025  
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 01:55:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 19 03:43:32 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 237819     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 375919     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 353534     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 188357     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 148283     | 48.093   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 96.180%  |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 130885     | 53.209   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 106.420% |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 490676     | 54.826   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 109.660% |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 176428     | 59.832   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 119.660% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 145881     | 45.097   | ug/l   | 99       |
| 3) Chloromethane             | 2.359          | 50   | 137300     | 42.298   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.512          | 62   | 145176     | 42.241   | ug/l   | 98       |
| 5) Bromomethane              | 2.942          | 94   | 87919      | 40.007   | ug/l   | 92       |
| 6) Chloroethane              | 3.112          | 64   | 95487      | 41.945   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 225611     | 45.340   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.965          | 74   | 74019      | 45.973   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 137772     | 47.898   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.583          | 142  | 161331     | 45.502   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 103623     | 273.255  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 118340     | 45.375   | ug/l   | 96       |
| 13) Acrolein                 | 4.177          | 56   | 140017     | 248.984  | ug/l   | 97       |
| 14) Allyl chloride           | 5.024          | 41   | 147641     | 43.118   | ug/l   | 95       |
| 15) Acrylonitrile            | 5.718          | 53   | 345666     | 280.390  | ug/l   | 98       |
| 16) Acetone                  | 4.424          | 43   | 249363     | 255.601  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.712          | 76   | 314031     | 40.628   | ug/l   | 99       |
| 18) Methyl Acetate           | 5.024          | 43   | 182909     | 54.509   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.789          | 73   | 396349     | 51.143   | ug/l   | 98       |
| 20) Methylene Chloride       | 5.277          | 84   | 146309     | 46.634   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 129705     | 46.188   | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.671          | 45   | 391516     | 50.602   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.600          | 43   | 1308586    | 247.013  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 248787     | 47.301   | ug/l   | 98       |
| 25) 2-Butanone               | 7.483          | 43   | 400315     | 278.911  | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 216992     | 46.396   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 154948     | 47.587   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.812          | 49   | 115793     | 53.564   | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 277473     | 299.381  | ug/l   | 98       |
| 30) Chloroform               | 7.965          | 83   | 264172     | 48.062   | ug/l   | 96       |
| 31) Cyclohexane              | 8.259          | 56   | 182622     | 41.469   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 227205     | 46.474   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 171560     | 49.280   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.559          | 43   | 163595     | 57.103   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 208658     | 50.443   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.600          | 83   | 162255     | 47.442   | ug/l   | 97       |
| 40) Benzene                  | 8.606          | 78   | 571775     | 51.244   | ug/l   | 100      |

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Feb 28 01:55:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 19 03:43:32 2025  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By :John Carlone 02/28/2025  
 Supervised By :Mahesh Dadoda 02/28/2025

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 83912    | 54.790   | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 178056   | 48.992   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 257848   | 51.298   | ug/l   | 97       |
| 44) Trichloroethene           | 9.353  | 130  | 129365   | 47.220   | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 143276   | 53.197   | ug/l   | 99       |
| 46) Dibromomethane            | 9.706  | 93   | 100446   | 52.873   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.888  | 83   | 209614   | 51.572   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.677  | 41   | 120287   | 56.535   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 57812    | 1428.861 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 868344   | 314.369  | ug/l   | 98       |
| 52) Toluene                   | 10.629 | 92   | 357834   | 54.710   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 199840   | 53.172   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 219898   | 53.357   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 142412   | 54.763   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 205498   | 54.377   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 233251   | 53.731   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 508568   | 318.943  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.194 | 43   | 638353   | 335.935  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.359 | 129  | 170941   | 56.451   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 136307   | 55.476   | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.100 | 164  | 125655   | 45.879   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.888 | 112  | 388571   | 47.978   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 147109   | 50.535   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 649772   | 51.217   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 531418   | 110.276  | ug/l   | 98       |
| 69) o-Xylene                  | 12.394 | 106  | 245287   | 53.565   | ug/l   | 100      |
| 70) Styrene                   | 12.412 | 104  | 435412   | 50.988   | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 120129   | 55.536   | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.694 | 105  | 612586   | 47.472   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.494 | 43   | 225612   | 49.579   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 211981   | 47.738   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 198649m  | 47.478   | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 163974   | 47.033   | ug/l   | 97       |
| 78) n-propylbenzene           | 13.035 | 91   | 746020   | 50.480   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 468516   | 47.449   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 544104   | 51.761   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 72032m   | 50.232   | ug/l   |          |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 481814   | 49.221   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 427958   | 48.414   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 550334   | 52.917   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.617 | 105  | 614410   | 49.195   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 517165   | 45.568   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 309474   | 47.380   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 306342   | 45.759   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 412920   | 46.567   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 108029   | 45.672   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 298060   | 47.454   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 39643    | 48.618   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 135202   | 45.173   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 74381    | 40.892   | ug/l   | 99       |
| 95) Naphthalene               | 15.641 | 128  | 407042   | 49.537   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 137278   | 45.688   | ug/l   | 99       |

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ALS Vial : 3 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/28/2025  
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 01:55:10 2025  
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Quant Title : SW846 8260  
QLast Update : Wed Feb 19 03:43:32 2025  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

