

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN033125\  
 Data File : VN086175.D  
 Acq On : 31 Mar 2025 17:26  
 Operator : JC\MD  
 Sample : VN0331WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0331WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/01/2025  
 Supervised By : Mahesh Dadoda 04/01/2025

Quant Time: Apr 01 01:38:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 19 03:20:56 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 202734     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 325904     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 281292     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 133357     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 113914     | 41.034   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 82.060%  |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 95023      | 41.773   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 83.540%  |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 348220     | 42.179   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 84.360%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 109180     | 37.082   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 74.160%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 40835      | 15.203   | ug/l   | 93       |
| 3) Chloromethane             | 2.359          | 50   | 28161      | 11.960   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.512          | 62   | 29635      | 12.309   | ug/l   | 96       |
| 5) Bromomethane              | 2.959          | 94   | 22232      | 13.557   | ug/l   | 95       |
| 6) Chloroethane              | 3.118          | 64   | 20582      | 13.551   | ug/l   | 90       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 60061      | 13.878   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.965          | 74   | 18083      | 13.648   | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 34475      | 14.988   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.589          | 142  | 42618      | 14.219   | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 24145      | 61.430   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 31545      | 15.188   | ug/l   | 98       |
| 13) Acrolein                 | 4.183          | 56   | 18598      | 44.364   | ug/l   | 93       |
| 14) Allyl chloride           | 5.030          | 41   | 37290      | 14.391   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.718          | 53   | 76857      | 74.041   | ug/l   | 98       |
| 16) Acetone                  | 4.424          | 43   | 57018      | 67.228   | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.712          | 76   | 97621      | 14.292   | ug/l # | 95       |
| 18) Methyl Acetate           | 5.024          | 43   | 31218      | 14.877   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 89576      | 13.161   | ug/l   | 97       |
| 20) Methylene Chloride       | 5.277          | 84   | 37312      | 15.038   | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 32353      | 14.253   | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.665          | 45   | 88194      | 15.972   | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.600          | 43   | 297065     | 70.969   | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 60194      | 14.825   | ug/l   | 98       |
| 25) 2-Butanone               | 7.483          | 43   | 86184      | 70.423   | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 53157      | 13.598   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 37876      | 14.684   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.812          | 49   | 32656      | 18.983   | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 57310      | 75.854   | ug/l   | 95       |
| 30) Chloroform               | 7.965          | 83   | 65556      | 14.607   | ug/l   | 98       |
| 31) Cyclohexane              | 8.253          | 56   | 50020      | 14.461   | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 59501      | 14.005   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.365          | 75   | 42525      | 14.197   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.559          | 43   | 36175      | 14.316   | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 53775      | 13.654   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.600          | 83   | 41004      | 13.798   | ug/l   | 95       |
| 40) Benzene                  | 8.606          | 78   | 141380     | 15.036   | ug/l   | 98       |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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Quant Time: Apr 01 01:38:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 19 03:20:56 2025  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By : John Carlone 04/01/2025  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.771  | 41   | 19058    | 15.794  | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 45385    | 13.852  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 64726    | 11.820  | ug/l   | 94       |
| 44) Trichloroethene           | 9.353  | 130  | 33385    | 13.699  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 33122    | 15.487  | ug/l   | 92       |
| 46) Dibromomethane            | 9.706  | 93   | 24324    | 14.462  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.882  | 83   | 51554    | 14.666  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.677  | 41   | 23690    | 13.110  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 11594    | 271.422 | ug/l   | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 181591   | 75.194  | ug/l   | 95       |
| 52) Toluene                   | 10.629 | 92   | 84899    | 14.711  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 46473    | 13.613  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 53386    | 14.822  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 33120    | 15.036  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 40849    | 14.001  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 55344    | 14.793  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 79800    | 72.996  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.194 | 43   | 125522   | 71.349  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.359 | 129  | 41033    | 14.436  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 32670    | 14.447  | ug/l   | 96       |
| 64) Tetrachloroethene         | 11.106 | 164  | 33162    | 14.779  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.888 | 112  | 91110    | 14.155  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 34093    | 14.248  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.959 | 91   | 138306   | 13.433  | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.071 | 106  | 111233   | 27.486  | ug/l   | 97       |
| 69) o-Xylene                  | 12.394 | 106  | 50830    | 13.685  | ug/l   | 98       |
| 70) Styrene                   | 12.412 | 104  | 84900    | 13.382  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 28177    | 14.087  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.694 | 105  | 124042   | 13.621  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 44126    | 14.483  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 45276    | 14.696  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 43141m   | 14.450  | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 36533    | 14.387  | ug/l   | 98       |
| 78) n-propylbenzene           | 13.035 | 91   | 149638   | 14.511  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 95617    | 13.960  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 108428   | 14.102  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 16056    | 14.218  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.217 | 91   | 97788    | 13.883  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 85406    | 12.988  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.476 | 105  | 106898   | 13.785  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.612 | 105  | 125750   | 14.659  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 99740    | 13.735  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 64876    | 14.174  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.806 | 146  | 65099    | 13.537  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 78947    | 13.350  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.329 | 117  | 23802    | 14.205  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 61108    | 13.430  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 8112     | 13.190  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 26884    | 11.751  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 16920    | 12.747  | ug/l   | 96       |
| 95) Naphthalene               | 15.641 | 128  | 65854    | 9.940   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 26118    | 12.031  | ug/l   | 99       |

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| 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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