

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092325\  
 Data File : VN087923.D  
 Acq On : 23 Sep 2025 08:51  
 Operator : JC\MD  
 Sample : VSTDICC001  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC001

Quant Time: Sep 24 01:54:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092325W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 24 01:53:45 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 09/24/2025  
 Supervised By : Mahesh Dadoda 09/26/2025

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.206  | 168  | 189780   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.082  | 114  | 370813   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.841 | 117  | 340378   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152  | 155283   | 50.000 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 0.000  | 65    | 0d       | 0.000    | ug/l |         |
| Spiked Amount             | 50.000 | Range | 74 - 125 | Recovery | =    | 0.000%# |
| 35) Dibromofluoromethane  | 0.000  | 113   | 0d       | 0.000    | ug/l |         |
| Spiked Amount             | 50.000 | Range | 75 - 124 | Recovery | =    | 0.000%# |
| 50) Toluene-d8            | 0.000  | 98    | 0d       | 0.000    | ug/l |         |
| Spiked Amount             | 50.000 | Range | 86 - 113 | Recovery | =    | 0.000%# |
| 62) 4-Bromofluorobenzene  | 0.000  | 95    | 0d       | 0.000    | ug/l |         |
| Spiked Amount             | 50.000 | Range | 77 - 121 | Recovery | =    | 0.000%# |

#### Target Compounds

|                              |       |     |        |       |        | Qvalue |
|------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane   | 2.148 | 85  | 2403   | 1.077 | ug/l   | 83     |
| 3) Chloromethane             | 2.377 | 50  | 2762   | 1.183 | ug/l   | 99     |
| 4) Vinyl Chloride            | 2.536 | 62  | 3015   | 1.248 | ug/l # | 71     |
| 6) Chloroethane              | 3.142 | 64  | 2064   | 1.300 | ug/l   | 97     |
| 7) Trichlorofluoromethane    | 3.512 | 101 | 4920   | 1.250 | ug/l   | 97     |
| 8) Diethyl Ether             | 3.953 | 74  | 1946   | 1.296 | ug/l   | 77     |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 2974   | 1.388 | ug/l # | 47     |
| 12) 1,1-Dichloroethene       | 4.347 | 96  | 2744   | 1.295 | ug/l # | 66     |
| 14) Allyl chloride           | 5.024 | 41  | 4226   | 1.240 | ug/l # | 76     |
| 15) Acrylonitrile            | 5.706 | 53  | 7184   | 4.982 | ug/l # | 83     |
| 16) Acetone                  | 4.418 | 43  | 9177m  | 6.381 | ug/l   |        |
| 17) Carbon Disulfide         | 4.700 | 76  | 8104   | 1.239 | ug/l # | 93     |
| 18) Methyl Acetate           | 5.012 | 43  | 3695m  | 1.086 | ug/l   |        |
| 19) Methyl tert-butyl Ether  | 5.800 | 73  | 7962   | 1.019 | ug/l # | 88     |
| 20) Methylene Chloride       | 5.265 | 84  | 5055   | 1.652 | ug/l   | 91     |
| 21) trans-1,2-Dichloroethene | 5.765 | 96  | 3650   | 1.380 | ug/l   | 85     |
| 22) Diisopropyl ether        | 6.671 | 45  | 7385   | 0.979 | ug/l # | 88     |
| 23) Vinyl Acetate            | 6.600 | 43  | 28865m | 4.310 | ug/l   |        |
| 24) 1,1-Dichloroethane       | 6.553 | 63  | 5776   | 1.242 | ug/l # | 81     |
| 25) 2-Butanone               | 7.471 | 43  | 11009  | 5.395 | ug/l # | 85     |
| 26) 2,2-Dichloropropane      | 7.459 | 77  | 4425   | 1.102 | ug/l   | 87     |
| 27) cis-1,2-Dichloroethene   | 7.471 | 96  | 3325   | 1.117 | ug/l   | 96     |
| 28) Bromochloromethane       | 7.806 | 49  | 2179m  | 0.920 | ug/l   |        |
| 29) Tetrahydrofuran          | 7.835 | 42  | 6472   | 5.027 | ug/l   | 96     |
| 30) Chloroform               | 7.953 | 83  | 6607   | 1.287 | ug/l   | 86     |
| 32) 1,1,1-Trichloroethane    | 8.147 | 97  | 5182   | 1.213 | ug/l # | 52     |
| 36) 1,1-Dichloropropene      | 8.359 | 75  | 3667m  | 1.105 | ug/l   |        |
| 37) Ethyl Acetate            | 7.547 | 43  | 4209m  | 0.994 | ug/l   |        |
| 38) Carbon Tetrachloride     | 8.347 | 117 | 4674   | 1.206 | ug/l   | 99     |
| 39) Methylcyclohexane        | 9.588 | 83  | 4046   | 1.108 | ug/l # | 80     |
| 40) Benzene                  | 8.588 | 78  | 12110  | 1.106 | ug/l # | 78     |
| 41) Methacrylonitrile        | 7.753 | 41  | 2438   | 1.090 | ug/l # | 78     |
| 42) 1,2-Dichloroethane       | 8.653 | 62  | 4859   | 1.173 | ug/l   | 88     |
| 43) Isopropyl Acetate        | 8.671 | 43  | 6757   | 1.008 | ug/l   | 95     |
| 44) Trichloroethene          | 9.330 | 130 | 2904   | 1.109 | ug/l   | 88     |
| 45) 1,2-Dichloropropane      | 9.600 | 63  | 2808   | 1.037 | ug/l   | 97     |

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 Operator : JC\MD  
 Sample : VSTDICC001  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/24/2025  
 Supervised By : Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 01:54:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092325W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 24 01:53:45 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) Dibromomethane            | 9.694  | 93   | 2588     | 1.177  | ug/l   | 87       |
| 47) Bromodichloromethane      | 9.871  | 83   | 4541     | 1.075  | ug/l # | 89       |
| 48) Methyl methacrylate       | 9.671  | 41   | 2663     | 0.880  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.682  | 88   | 1066m    | 22.665 | ug/l   |          |
| 51) 4-Methyl-2-Pentanone      | 10.424 | 43   | 18862    | 4.591  | ug/l   | 91       |
| 52) Toluene                   | 10.606 | 92   | 5641     | 0.862  | ug/l   | 92       |
| 53) t-1,3-Dichloropropene     | 10.818 | 75   | 3973     | 0.944  | ug/l   | 89       |
| 54) cis-1,3-Dichloropropene   | 10.288 | 75   | 4496     | 1.014  | ug/l # | 78       |
| 55) 1,1,2-Trichloroethane     | 10.994 | 97   | 2978     | 1.073  | ug/l # | 63       |
| 56) Ethyl methacrylate        | 10.859 | 69   | 2656     | 0.711  | ug/l # | 76       |
| 57) 1,3-Dichloropropane       | 11.135 | 76   | 4980     | 1.088  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63   | 5035     | 2.934  | ug/l   | 91       |
| 59) 2-Hexanone                | 11.182 | 43   | 9429m    | 3.656  | ug/l   |          |
| 60) Dibromochloromethane      | 11.335 | 129  | 3378     | 1.042  | ug/l   | 88       |
| 61) 1,2-Dibromoethane         | 11.447 | 107  | 3384     | 1.137  | ug/l   | 88       |
| 64) Tetrachloroethene         | 11.076 | 164  | 2615     | 1.209  | ug/l # | 75       |
| 65) Chlorobenzene             | 11.871 | 112  | 8499     | 1.140  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 3193     | 1.179  | ug/l # | 63       |
| 67) Ethyl Benzene             | 11.947 | 91   | 11878    | 0.986  | ug/l # | 85       |
| 68) m/p-Xylenes               | 12.047 | 106  | 9100     | 1.974  | ug/l   | 92       |
| 69) o-Xylene                  | 12.382 | 106  | 3516     | 0.820  | ug/l   | 92       |
| 70) Styrene                   | 12.388 | 104  | 5579     | 0.766  | ug/l   | 98       |
| 71) Bromoform                 | 12.565 | 173  | 2060     | 0.977  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.665 | 105  | 9586     | 0.997  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.923 | 83   | 4308     | 1.194  | ug/l # | 87       |
| 76) 1,2,3-Trichloropropane    | 12.976 | 75   | 2733m    | 0.637  | ug/l   |          |
| 77) Bromobenzene              | 12.953 | 156  | 2363m    | 0.923  | ug/l   |          |
| 78) n-propylbenzene           | 13.018 | 91   | 11177    | 0.940  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.100 | 91   | 8381     | 1.117  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 13.147 | 105  | 7295     | 0.895  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.206 | 91   | 7377     | 0.999  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.417 | 119  | 6715     | 0.961  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 7000     | 0.845  | ug/l   | 94       |
| 85) sec-Butylbenzene          | 13.594 | 105  | 8356     | 0.835  | ug/l   | 91       |
| 86) p-Isopropyltoluene        | 13.706 | 119  | 7444     | 0.872  | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene       | 13.712 | 146  | 5021     | 1.004  | ug/l   | 93       |
| 88) 1,4-Dichlorobenzene       | 13.794 | 146  | 7096m    | 1.299  | ug/l   |          |
| 89) n-Butylbenzene            | 14.035 | 91   | 7822     | 0.955  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.312 | 117  | 2359     | 1.231  | ug/l   | 78       |
| 91) 1,2-Dichlorobenzene       | 14.094 | 146  | 5339     | 1.089  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 795      | 0.989  | ug/l   | 70       |
| 93) 1,2,4-Trichlorobenzene    | 15.370 | 180  | 3202     | 1.103  | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.482 | 225  | 1478     | 1.321  | ug/l # | 35       |
| 95) Naphthalene               | 15.611 | 128  | 7710     | 0.867  | ug/l # | 90       |
| 96) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 2746     | 0.994  | ug/l # | 21       |

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

