

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052925\  
 Data File : VN086812.D  
 Acq On : 29 May 2025 13:29  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN052925

Quant Time: May 30 02:27:48 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N052925W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri May 30 02:22:52 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/30/2025  
 Supervised By : Mahesh Dadoda 05/30/2025

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.812          | 128  | 39229      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.100          | 114  | 223703     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.865         | 117  | 197319     | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.577          | 65   | 80793      | 29.975   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 99.933%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.847         | 95   | 92156      | 29.747   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 99.167%  |        |          |
| 63) Toluene-d8               | 10.565         | 98   | 274925     | 30.356   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 101.200% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 52216      | 19.598   | ug/l   | 100      |
| 3) Chloromethane             | 2.359          | 50   | 64948      | 18.906   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.512          | 62   | 60309      | 19.077   | ug/l   | 100      |
| 5) Bromomethane              | 2.965          | 94   | 32637      | 19.484   | ug/l   | 97       |
| 6) Chloroethane              | 3.124          | 64   | 35780      | 18.505   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 70164      | 18.950   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.959          | 74   | 29654      | 19.200   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 43379      | 19.116   | ug/l   | 99       |
| 10) 1,1-Dichloroethene       | 4.342          | 96   | 44683      | 19.314   | ug/l   | 95       |
| 11) Methyl Iodide            | 4.589          | 142  | 50913      | 18.669   | ug/l   | 96       |
| 12) Methyl Acetate           | 5.018          | 43   | 46483      | 18.092   | ug/l   | 94       |
| 13) Acrolein                 | 4.177          | 56   | 26887      | 101.300  | ug/l   | 99       |
| 14) Acrylonitrile            | 5.718          | 53   | 108321     | 90.599   | ug/l   | 99       |
| 15) Acetone                  | 4.424          | 58   | 33756      | 111.509  | ug/l   | 89       |
| 16) Carbon Disulfide         | 4.712          | 76   | 130013     | 19.252   | ug/l   | 99       |
| 17) Allyl chloride           | 5.024          | 41   | 65922      | 19.181   | ug/l   | 98       |
| 18) Methylene Chloride       | 5.271          | 84   | 50544      | 18.813   | ug/l   | 95       |
| 19) trans-1,2-Dichloroethene | 5.783          | 96   | 46481      | 19.199   | ug/l   | 85       |
| 20) Diisopropyl ether        | 6.671          | 45   | 144697     | 19.116   | ug/l   | 100      |
| 21) 1,1-Dichloroethane       | 6.565          | 63   | 86115      | 18.851   | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 7.483          | 96   | 55265      | 18.849   | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.512          | 59   | 35103      | 91.427   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 145689     | 19.108   | ug/l   | 98       |
| 25) Chloroform               | 7.965          | 83   | 83771      | 18.736   | ug/l   | 98       |
| 26) Cyclohexane              | 8.259          | 56   | 74454      | 18.832   | ug/l # | 96       |
| 29) 1,1-Dichloropropene      | 8.371          | 75   | 61901      | 18.820   | ug/l   | 100      |
| 30) 2-Butanone               | 7.483          | 43   | 139014     | 96.463   | ug/l   | 98       |
| 31) 2,2-Dichloropropane      | 7.488          | 77   | 74345      | 19.149   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 72748      | 19.080   | ug/l   | 98       |
| 33) Carbon Tetrachloride     | 8.359          | 117  | 61019      | 18.722   | ug/l   | 95       |
| 34) Benzene                  | 8.600          | 78   | 203797     | 19.043   | ug/l   | 98       |
| 35) Methacrylonitrile        | 7.777          | 41   | 31328      | 18.924   | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.665          | 62   | 59147      | 18.861   | ug/l   | 100      |
| 37) Trichloroethene          | 9.347          | 130  | 54111      | 18.229   | ug/l   | 96       |
| 38) Methylcyclohexane        | 9.600          | 83   | 71039      | 19.466   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.618          | 63   | 47976      | 18.621   | ug/l   | 97       |
| 40) Dibromomethane           | 9.706          | 93   | 32186      | 19.100   | ug/l   | 99       |
| 41) Bromodichloromethane     | 9.882          | 83   | 64799      | 18.370   | ug/l   | 99       |
| 42) Vinyl Acetate            | 6.600          | 43   | 411482     | 97.955   | ug/l   | 99       |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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Quant Time: May 30 02:27:48 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N052925W.M  
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### Manual Integrations APPROVED

Reviewed By : John Carlone 05/30/2025  
 Supervised By : Mahesh Dadoda 05/30/2025

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 7.559  | 43   | 53372m   | 18.099  | ug/l  |          |
| 44) Isopropyl Acetate         | 8.682  | 43   | 94672    | 18.715  | ug/l  | 99       |
| 45) 1,4-Dioxane               | 9.694  | 88   | 16063    | 357.261 | ug/l  | 99       |
| 46) Methyl methacrylate       | 9.677  | 41   | 43072    | 18.466  | ug/l  | 97       |
| 47) n-amyl Acetate            | 12.488 | 43   | 74476    | 18.339  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 10.835 | 75   | 71129    | 18.844  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene   | 10.306 | 75   | 77974    | 18.781  | ug/l  | 97       |
| 50) 1,1,2-Trichloroethane     | 11.012 | 97   | 44885    | 18.912  | ug/l  | 98       |
| 51) Ethyl methacrylate        | 10.871 | 69   | 71146    | 18.509  | ug/l  | 95       |
| 52) 1,3-Dichloropropane       | 11.159 | 76   | 78678    | 18.680  | ug/l  | 99       |
| 53) Dibromochloromethane      | 11.359 | 129  | 48703    | 18.159  | ug/l  | 99       |
| 54) 1,2-Dibromoethane         | 11.465 | 107  | 44297    | 18.259  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.159 | 63   | 167424   | 90.742  | ug/l  | 100      |
| 56) Bromoform                 | 12.576 | 173  | 30533    | 18.068  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone      | 10.441 | 43   | 275494   | 95.151  | ug/l  | 99       |
| 59) 2-Hexanone                | 11.194 | 43   | 200674   | 96.760  | ug/l  | 100      |
| 61) Tetrachloroethene         | 11.100 | 164  | 63359    | 19.102  | ug/l  | 93       |
| 62) Toluene                   | 10.629 | 91   | 215673   | 19.407  | ug/l  | 100      |
| 64) Chlorobenzene             | 11.888 | 112  | 135267   | 19.086  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 43620    | 18.735  | ug/l  | 99       |
| 66) Ethyl Benzene             | 11.959 | 91   | 226179   | 18.817  | ug/l  | 97       |
| 67) m/p-Xylenes               | 12.070 | 106  | 180739   | 38.318  | ug/l  | 98       |
| 68) o-Xylene                  | 12.394 | 106  | 86496    | 18.922  | ug/l  | 98       |
| 69) Styrene                   | 12.406 | 104  | 141215   | 18.542  | ug/l  | 99       |
| 70) Isopropylbenzene          | 12.694 | 105  | 207175   | 19.055  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 50479    | 19.528  | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane    | 12.988 | 75   | 48037m   | 15.856  | ug/l  |          |
| 73) Bromobenzene              | 12.976 | 156  | 50227    | 18.586  | ug/l  | 98       |
| 74) n-propylbenzene           | 13.035 | 91   | 242286   | 18.813  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 13.123 | 91   | 154366   | 18.675  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 171325   | 18.942  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.735 | 75   | 21596    | 17.419  | ug/l  | 95       |
| 78) 4-Chlorotoluene           | 13.217 | 91   | 155978   | 19.049  | ug/l  | 99       |
| 79) tert-butylbenzene         | 13.435 | 119  | 145783   | 18.642  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene    | 13.476 | 105  | 170675   | 18.799  | ug/l  | 99       |
| 81) sec-Butylbenzene          | 13.612 | 105  | 202713   | 19.027  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 13.723 | 119  | 167950   | 18.774  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 13.729 | 146  | 94570    | 19.076  | ug/l  | 96       |
| 84) 1,4-Dichlorobenzene       | 13.806 | 146  | 91755    | 18.598  | ug/l  | 98       |
| 85) n-Butylbenzene            | 14.053 | 91   | 138182   | 18.451  | ug/l  | 99       |
| 86) Hexachloroethane          | 14.329 | 117  | 27843    | 18.262  | ug/l  | 99       |
| 87) 1,2-Dichlorobenzene       | 14.106 | 146  | 91269    | 19.085  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 9928     | 18.238  | ug/l  | 98       |
| 89) 1,2,4-Trichlorobenzene    | 15.835 | 180  | 38298    | 19.135  | ug/l  | 96       |
| 90) Hexachlorobutadiene       | 15.494 | 225  | 17847    | 20.805  | ug/l  | 97       |
| 91) Naphthalene               | 15.635 | 128  | 127910   | 18.317  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 38298    | 19.135  | ug/l  | 96       |

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

