

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087456.D  
 Acq On : 05 Aug 2025 15:01  
 Operator : JC\MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Quant Time: Aug 06 01:30:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

| Compound                     | R.T.   | QIon     | Response | Conc    | Units   | Dev(Min) |
|------------------------------|--------|----------|----------|---------|---------|----------|
| -----                        |        |          |          |         |         |          |
| Internal Standards           |        |          |          |         |         |          |
| 1) Bromochloromethane        | 7.800  | 128      | 69078    | 30.000  | ug/l    | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082  | 114      | 387583   | 30.000  | ug/l    | 0.00     |
| 57) Chlorobenzene-d5         | 11.847 | 117      | 364557   | 30.000  | ug/l    | 0.00     |
|                              |        |          |          |         |         |          |
| System Monitoring Compounds  |        |          |          |         |         |          |
| 27) 1,2-Dichloroethane-d4    | 8.565  | 65       | 189674   | 29.770  | ug/l    | 0.00     |
| Spiked Amount 30.000         | Range  | 91 - 110 | Recovery | =       | 99.233% |          |
| 60) 4-Bromofluorobenzene     | 12.829 | 95       | 185190   | 29.518  | ug/l    | 0.00     |
| Spiked Amount 30.000         | Range  | 63 - 112 | Recovery | =       | 98.400% |          |
| 63) Toluene-d8               | 10.547 | 98       | 486934   | 29.029  | ug/l    | 0.00     |
| Spiked Amount 30.000         | Range  | 91 - 112 | Recovery | =       | 96.767% |          |
|                              |        |          |          |         |         |          |
| Target Compounds             |        |          |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142  | 85       | 723378   | 160.391 | ug/l    | 98       |
| 3) Chloromethane             | 2.383  | 50       | 725628   | 156.816 | ug/l    | 99       |
| 4) Vinyl Chloride            | 2.542  | 62       | 763252   | 155.517 | ug/l    | 98       |
| 5) Bromomethane              | 2.948  | 94       | 445899   | 167.854 | ug/l    | 88       |
| 6) Chloroethane              | 3.124  | 64       | 492727   | 155.693 | ug/l    | 98       |
| 7) Trichlorofluoromethane    | 3.506  | 101      | 1085005  | 153.614 | ug/l    | 95       |
| 8) Diethyl Ether             | 3.959  | 74       | 454480   | 154.449 | ug/l    | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.359  | 101      | 551904   | 153.229 | ug/l    | 90       |
| 10) 1,1-Dichloroethene       | 4.330  | 96       | 595776   | 157.473 | ug/l    | 97       |
| 11) Methyl Iodide            | 4.577  | 142      | 615618   | 207.681 | ug/l    | 96       |
| 12) Methyl Acetate           | 5.012  | 43       | 1117123  | 160.008 | ug/l    | 96       |
| 13) Acrolein                 | 4.171  | 56       | 885350   | 830.485 | ug/l    | 100      |
| 14) Acrylonitrile            | 5.706  | 53       | 2386034  | 782.650 | ug/l    | 99       |
| 15) Acetone                  | 4.424  | 58       | 624281   | 716.676 | ug/l    | 93       |
| 16) Carbon Disulfide         | 4.700  | 76       | 1818928  | 154.990 | ug/l    | 99       |
| 17) Allyl chloride           | 5.006  | 41       | 1219550  | 158.149 | ug/l    | 96       |
| 18) Methylene Chloride       | 5.259  | 84       | 741791   | 152.333 | ug/l    | 96       |
| 19) trans-1,2-Dichloroethene | 5.771  | 96       | 697274   | 154.982 | ug/l    | 97       |
| 20) Diisopropyl ether        | 6.659  | 45       | 2747446  | 156.466 | ug/l    | 98       |
| 21) 1,1-Dichloroethane       | 6.553  | 63       | 1407817  | 155.035 | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene   | 7.471  | 96       | 860976   | 155.531 | ug/l    | 99       |
| 23) tert-Butyl Alcohol       | 5.530  | 59       | 986070   | 761.173 | ug/l #  | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789  | 73       | 2719481  | 157.748 | ug/l    | 98       |
| 25) Chloroform               | 7.947  | 83       | 1478128  | 155.945 | ug/l    | 97       |
| 26) Cyclohexane              | 8.235  | 56       | 1125305  | 154.779 | ug/l #  | 98       |
| 29) 1,1-Dichloropropene      | 8.353  | 75       | 964808   | 152.623 | ug/l    | 98       |
| 30) 2-Butanone               | 7.471  | 43       | 3513639  | 754.051 | ug/l    | 99       |
| 31) 2,2-Dichloropropane      | 7.471  | 77       | 1224801  | 150.224 | ug/l    | 100      |
| 32) 1,1,1-Trichloroethane    | 8.153  | 97       | 1249167  | 154.937 | ug/l    | 96       |
| 33) Carbon Tetrachloride     | 8.347  | 117      | 1036608  | 154.768 | ug/l    | 94       |
| 34) Benzene                  | 8.588  | 78       | 3070072  | 153.850 | ug/l    | 98       |
| 35) Methacrylonitrile        | 7.765  | 41       | 743083   | 147.778 | ug/l    | 97       |
| 36) 1,2-Dichloroethane       | 8.653  | 62       | 1229451  | 152.417 | ug/l    | 99       |
| 37) Trichloroethene          | 9.335  | 130      | 671378   | 152.738 | ug/l    | 95       |
| 38) Methylcyclohexane        | 9.582  | 83       | 1115098  | 152.053 | ug/l    | 98       |
| 39) 1,2-Dichloropropane      | 9.600  | 63       | 775438   | 151.562 | ug/l    | 98       |
| 40) Dibromomethane           | 9.688  | 93       | 586203   | 152.708 | ug/l    | 97       |
| 41) Bromodichloromethane     | 9.871  | 83       | 1228566  | 154.020 | ug/l    | 96       |
| 42) Vinyl Acetate            | 6.588  | 43       | 11742175 | 765.203 | ug/l    | 99       |

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 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Quant Time: Aug 06 01:30:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
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Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 1387131  | 156.385  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 2332673  | 152.869  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 293747   | 3019.679 | ug/l # | 93       |
| 46) Methyl methacrylate       | 9.665  | 41   | 1134360  | 157.486  | ug/l   | 96       |
| 47) n-amyl Acetate            | 12.482 | 43   | 1594700  | 207.839  | ug/l # | 59       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 1360863  | 156.815  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 1364130  | 156.195  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 751367   | 154.919  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 1388488  | 162.554  | ug/l   | 99       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 1349103  | 154.396  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.341 | 129  | 890655   | 159.011  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 801234   | 155.619  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 3422234  | 761.062  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 604236   | 163.094  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.429 | 43   | 6842960  | 729.674  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.176 | 43   | 4970555  | 780.064  | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 527237   | 148.447  | ug/l   | 97       |
| 62) Toluene                   | 10.612 | 91   | 3345117  | 148.669  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.870 | 112  | 2069135  | 149.658  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 721459   | 148.418  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.941 | 91   | 3762645  | 150.033  | ug/l   | 98       |
| 67) m/p-Xylenes               | 12.053 | 106  | 2745929  | 298.294  | ug/l   | 98       |
| 68) o-Xylene                  | 12.376 | 106  | 1358102  | 149.962  | ug/l   | 99       |
| 69) Styrene                   | 12.388 | 104  | 2382097  | 154.045  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.676 | 105  | 3492470  | 151.792  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 1145045  | 145.247  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 1117688m | 137.926  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 798843   | 149.771  | ug/l   | 99       |
| 74) n-propylbenzene           | 13.012 | 91   | 4261831  | 148.316  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 2596357  | 146.890  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 2914301  | 147.934  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 466370   | 167.752  | ug/l   | 89       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 2683008  | 149.787  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.417 | 119  | 2427930  | 146.177  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 2936296  | 149.164  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 3544404  | 146.583  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 2934141  | 146.146  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 1508514  | 148.523  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 1521926  | 147.799  | ug/l   | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 2920119  | 148.660  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.311 | 117  | 595863   | 151.982  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 1446749  | 149.224  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 299287   | 149.861  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 893366   | 154.184  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 317783   | 141.046  | ug/l   | 96       |
| 91) Naphthalene               | 15.611 | 128  | 3431814  | 155.335  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 893366   | 154.184  | ug/l   | 99       |

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

