

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112525\  
 Data File : VN088353.D  
 Acq On : 25 Nov 2025 11:03  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

Quant Time: Nov 26 00:16:08 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N111325W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 14 00:49:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) | 11/26/2025<br>Supervised By :Mahesh<br>Dadoda |
|------------------------------|--------|-------|----------|----------|--------|----------|-----------------------------------------------|
| Internal Standards           |        |       |          |          |        |          | 11/26/2025                                    |
| 1) Bromochloromethane        | 7.800  | 128   | 57986    | 30.000   | ug/l   | 0.00     |                                               |
| 28) 1,4-Difluorobenzene      | 9.082  | 114   | 299947   | 30.000   | ug/l   | 0.00     |                                               |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 269125   | 30.000   | ug/l   | 0.00     | 11/26/2025                                    |
| System Monitoring Compounds  |        |       |          |          |        |          |                                               |
| 27) 1,2-Dichloroethane-d4    | 8.559  | 65    | 150428   | 28.400   | ug/l   | 0.00     |                                               |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 94.667%  |                                               |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 129068   | 28.370   | ug/l   | 0.00     |                                               |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 94.567%  |                                               |
| 63) Toluene-d8               | 10.547 | 98    | 390224   | 30.627   | ug/l   | 0.00     |                                               |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 102.100% |                                               |
| Target Compounds             |        |       |          |          |        |          | Qvalue                                        |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 81330    | 19.953   | ug/l   | 98       |                                               |
| 3) Chloromethane             | 2.383  | 50    | 86295    | 20.534   | ug/l   | 97       |                                               |
| 4) Vinyl Chloride            | 2.536  | 62    | 87137    | 19.609   | ug/l   | 100      |                                               |
| 5) Bromomethane              | 2.983  | 94    | 42242    | 17.828   | ug/l   | 88       |                                               |
| 6) Chloroethane              | 3.142  | 64    | 53516    | 19.484   | ug/l   | 97       |                                               |
| 7) Trichlorofluoromethane    | 3.512  | 101   | 123354   | 19.800   | ug/l   | 91       |                                               |
| 8) Diethyl Ether             | 3.965  | 74    | 43861    | 18.836   | ug/l   | 97       |                                               |
| 9) 1,1,2-Trichlorotrifluo... | 4.371  | 101   | 63389    | 19.395   | ug/l   | 81       |                                               |
| 10) 1,1-Dichloroethene       | 4.336  | 96    | 63178    | 19.814   | ug/l   | 87       |                                               |
| 11) Methyl Iodide            | 4.583  | 142   | 57651    | 16.990   | ug/l   | 88       |                                               |
| 12) Methyl Acetate           | 5.012  | 43    | 108311   | 21.055   | ug/l   | 91       |                                               |
| 13) Acrolein                 | 4.171  | 56    | 119806   | 158.297  | ug/l   | 96       |                                               |
| 14) Acrylonitrile            | 5.706  | 53    | 228075   | 97.574   | ug/l   | 100      |                                               |
| 15) Acetone                  | 4.424  | 58    | 50525    | 73.915   | ug/l   | 97       |                                               |
| 16) Carbon Disulfide         | 4.706  | 76    | 207603   | 19.305   | ug/l   | 98       |                                               |
| 17) Allyl chloride           | 5.012  | 41    | 109044   | 17.598   | ug/l   | 96       |                                               |
| 18) Methylene Chloride       | 5.277  | 84    | 77920m   | 19.660   | ug/l   |          |                                               |
| 19) trans-1,2-Dichloroethene | 5.777  | 96    | 72280    | 19.467   | ug/l   | 96       |                                               |
| 20) Diisopropyl ether        | 6.653  | 45    | 260950   | 19.708   | ug/l   | 100      |                                               |
| 21) 1,1-Dichloroethane       | 6.553  | 63    | 143555   | 19.244   | ug/l   | 97       |                                               |
| 22) cis-1,2-Dichloroethene   | 7.465  | 96    | 83004    | 19.234   | ug/l   | 96       |                                               |
| 23) tert-Butyl Alcohol       | 5.518  | 59    | 78340    | 91.146   | ug/l # | 100      |                                               |
| 24) Methyl tert-Butyl Ether  | 5.788  | 73    | 239986   | 18.667   | ug/l   | 100      |                                               |
| 25) Chloroform               | 7.953  | 83    | 146184   | 19.777   | ug/l   | 98       |                                               |
| 26) Cyclohexane              | 8.235  | 56    | 119223   | 18.921   | ug/l # | 94       |                                               |
| 29) 1,1-Dichloropropene      | 8.353  | 75    | 100443   | 20.069   | ug/l   | 99       |                                               |
| 30) 2-Butanone               | 7.471  | 43    | 297757   | 91.975   | ug/l   | 99       |                                               |
| 31) 2,2-Dichloropropane      | 7.477  | 77    | 119813   | 19.410   | ug/l   | 100      |                                               |
| 32) 1,1,1-Trichloroethane    | 8.153  | 97    | 126795   | 20.552   | ug/l   | 98       |                                               |
| 33) Carbon Tetrachloride     | 8.341  | 117   | 102288   | 19.415   | ug/l   | 96       |                                               |
| 34) Benzene                  | 8.588  | 78    | 309055   | 20.659   | ug/l   | 97       |                                               |
| 35) Methacrylonitrile        | 7.765  | 41    | 66069    | 19.565   | ug/l   | 96       |                                               |
| 36) 1,2-Dichloroethane       | 8.653  | 62    | 116495   | 20.010   | ug/l   | 99       |                                               |
| 37) Trichloroethene          | 9.335  | 130   | 72307    | 21.329   | ug/l   | 97       |                                               |
| 38) Methylcyclohexane        | 9.582  | 83    | 108423   | 18.896   | ug/l   | 99       |                                               |
| 39) 1,2-Dichloropropane      | 9.606  | 63    | 80167    | 20.771   | ug/l   | 90       |                                               |
| 40) Dibromomethane           | 9.688  | 93    | 56332    | 20.314   | ug/l   | 97       |                                               |
| 41) Bromodichloromethane     | 9.871  | 83    | 112188   | 20.097   | ug/l   | 97       |                                               |
| 42) Vinyl Acetate            | 6.588  | 43    | 1050214  | 97.196   | ug/l   | 99       |                                               |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112525\  
 Data File : VN088353.D  
 Acq On : 25 Nov 2025 11:03  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

Manual Integrations  
 APPROVED

Reviewed By : John  
 Carlone

Quant Time: Nov 26 00:16:08 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N111325W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 14 00:49:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) | 11/26/2025<br>Supervised By : Mahesh<br>Dadoda |
|-------------------------------|--------|------|----------|---------|-------|----------|------------------------------------------------|
| 43) Ethyl Acetate             | 7.547  | 43   | 137168   | 21.058  | ug/l  | 97       |                                                |
| 44) Isopropyl Acetate         | 8.671  | 43   | 201916   | 20.114  | ug/l  | 98       |                                                |
| 45) 1,4-Dioxane               | 9.682  | 88   | 22935    | 379.398 | ug/l  | 93       |                                                |
| 46) Methyl methacrylate       | 9.665  | 41   | 90614    | 19.290  | ug/l  | 89       | 11/26/2025                                     |
| 47) n-amyl Acetate            | 12.682 | 43   | 82566m   | 16.231  | ug/l  |          |                                                |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 113648   | 19.034  | ug/l  | 100      |                                                |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 127323   | 20.495  | ug/l  | 97       |                                                |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 71796    | 20.939  | ug/l  | 93       |                                                |
| 51) Ethyl methacrylate        | 10.859 | 69   | 107871   | 19.121  | ug/l  | 99       |                                                |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 123799   | 19.825  | ug/l  | 96       |                                                |
| 53) Dibromochloromethane      | 11.341 | 129  | 80423    | 20.419  | ug/l  | 99       |                                                |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 71741    | 20.137  | ug/l  | 97       |                                                |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 315309   | 97.027  | ug/l  | 99       |                                                |
| 56) Bromoform                 | 12.559 | 173  | 48634    | 19.508  | ug/l  | 98       |                                                |
| 58) 4-Methyl-2-Pentanone      | 10.423 | 43   | 642730   | 105.592 | ug/l  | 100      |                                                |
| 59) 2-Hexanone                | 11.182 | 43   | 391928   | 96.966  | ug/l  | 99       |                                                |
| 61) Tetrachloroethene         | 11.082 | 164  | 68500    | 24.687  | ug/l  | 93       |                                                |
| 62) Toluene                   | 10.606 | 91   | 322655   | 20.892  | ug/l  | 97       |                                                |
| 64) Chlorobenzene             | 11.870 | 112  | 190883   | 19.956  | ug/l  | 99       |                                                |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 65001    | 19.855  | ug/l  | 95       |                                                |
| 66) Ethyl Benzene             | 11.941 | 91   | 335239   | 19.695  | ug/l  | 99       |                                                |
| 67) m/p-Xylenes               | 12.053 | 106  | 255824   | 40.190  | ug/l  | 100      |                                                |
| 68) o-Xylene                  | 12.376 | 106  | 119215   | 19.853  | ug/l  | 95       |                                                |
| 69) Styrene                   | 12.394 | 104  | 196457   | 19.263  | ug/l  | 100      |                                                |
| 70) Isopropylbenzene          | 12.676 | 105  | 307298   | 19.311  | ug/l  | 99       |                                                |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 96950    | 18.808  | ug/l  | 99       |                                                |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 92588m   | 18.540  | ug/l  |          |                                                |
| 73) Bromobenzene              | 12.959 | 156  | 71912    | 20.017  | ug/l  | 96       |                                                |
| 74) n-propylbenzene           | 13.011 | 91   | 386973   | 19.650  | ug/l  | 100      |                                                |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 224405   | 18.739  | ug/l  | 99       |                                                |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 256084   | 19.171  | ug/l  | 98       |                                                |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 30678    | 17.889  | ug/l  | 93       |                                                |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 235006   | 19.366  | ug/l  | 99       |                                                |
| 79) tert-butylbenzene         | 13.417 | 119  | 211425   | 18.487  | ug/l  | 98       |                                                |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 250925   | 18.891  | ug/l  | 99       |                                                |
| 81) sec-Butylbenzene          | 13.594 | 105  | 312419   | 18.729  | ug/l  | 99       |                                                |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 255324   | 18.524  | ug/l  | 98       |                                                |
| 83) 1,3-Dichlorobenzene       | 13.711 | 146  | 139122   | 19.931  | ug/l  | 99       |                                                |
| 84) 1,4-Dichlorobenzene       | 13.794 | 146  | 137140   | 19.400  | ug/l  | 98       |                                                |
| 85) n-Butylbenzene            | 14.035 | 91   | 239107   | 18.202  | ug/l  | 99       |                                                |
| 86) Hexachloroethane          | 14.311 | 117  | 45082    | 17.082  | ug/l  | 98       |                                                |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 127211   | 19.308  | ug/l  | 99       |                                                |
| 88) 1,2-Dibromo-3-Chloropr... | 14.706 | 75   | 23395    | 19.309  | ug/l  | 95       |                                                |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 68792    | 18.606  | ug/l  | 97       |                                                |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 26607    | 18.531  | ug/l  | 97       |                                                |
| 91) Naphthalene               | 15.617 | 128  | 241446   | 18.049  | ug/l  | 99       |                                                |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 68792    | 18.606  | ug/l  | 97       |                                                |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112525\  
 Data File : VN088353.D  
 Acq On : 25 Nov 2025 11:03  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## Client Sample Id :

VSTDCCC020

## Manual Integrations

APPROVED

Reviewed By : John  
 Carlone

Quant Time: Nov 26 00:16:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N111325W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Nov 14 00:49:21 2025

Response via : Initial Calibration

