

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051625\  
 Data File : VN086661.D  
 Acq On : 16 May 2025 11:37  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: May 16 23:00:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042325W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Apr 24 04:42:24 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 2.071 | 2.080 | -0.4  | 101   | 0.00     |
| 3 M  | Chloromethane               | 2.942 | 2.908 | 1.2   | 103   | 0.00     |
| 4 M  | Vinyl Chloride              | 2.818 | 2.716 | 3.6   | 100   | 0.00     |
| 5 M  | Bromomethane                | 1.471 | 1.576 | -7.1  | 108   | 0.00     |
| 6 M  | Chloroethane                | 1.879 | 1.856 | 1.2   | 102   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.326 | 3.391 | -2.0  | 103   | 0.00     |
| 8 T  | Diethyl Ether               | 1.404 | 1.468 | -4.6  | 109   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 2.045 | 2.182 | -6.7  | 110   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 2.093 | 2.081 | 0.6   | 103   | 0.00     |
| 11   | Methyl Iodide               | 2.449 | 2.333 | 4.7   | 99    | -0.01    |
| 12   | Methyl Acetate              | 2.966 | 3.247 | -9.5  | 112   | 0.00     |
| 13 M | Acrolein                    | 0.150 | 0.126 | 16.0  | 102   | 0.00     |
| 14 M | Acrylonitrile               | 1.104 | 1.207 | -9.3  | 113   | 0.00     |
| 15 M | Acetone                     | 0.304 | 0.355 | -16.8 | 132   | 0.00     |
| 16 M | Carbon Disulfide            | 5.515 | 5.234 | 5.1   | 96    | 0.00     |
| 17   | Allyl chloride              | 3.346 | 3.229 | 3.5   | 102   | 0.00     |
| 18 M | Methylene Chloride          | 2.383 | 2.549 | -7.0  | 111   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 2.231 | 2.229 | 0.1   | 105   | 0.00     |
| 20 T | Diisopropyl ether           | 7.957 | 7.744 | 2.7   | 102   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 4.355 | 4.447 | -2.1  | 106   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.789 | 2.802 | -0.5  | 106   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.428 | 0.472 | -10.3 | 107   | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 7.733 | 7.655 | 1.0   | 102   | 0.00     |
| 25 M | Chloroform                  | 4.408 | 4.488 | -1.8  | 104   | 0.00     |
| 26   | Cyclohexane                 | 3.846 | 3.503 | 8.9   | 96    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.892 | 2.758 | 4.6   | 96    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.529 | 0.533 | -0.8  | 105   | 0.00     |
| 30 M | 2-Butanone                  | 0.257 | 0.277 | -7.8  | 111   | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.680 | 0.664 | 2.4   | 100   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.632 | 0.643 | -1.7  | 104   | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.520 | 0.534 | -2.7  | 104   | 0.00     |
| 34 M | Benzene                     | 1.682 | 1.733 | -3.0  | 105   | 0.00     |
| 35   | Methacrylonitrile           | 0.293 | 0.289 | 1.4   | 96    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.546 | 0.548 | -0.4  | 102   | 0.00     |
| 37 M | Trichloroethene             | 0.421 | 0.418 | 0.7   | 105   | 0.00     |
| 38   | Methylcyclohexane           | 0.611 | 0.571 | 6.5   | 96    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.416 | 0.415 | 0.2   | 103   | 0.00     |
| 40   | Dibromomethane              | 0.278 | 0.282 | -1.4  | 103   | 0.00     |
| 41 M | Bromodichloromethane        | 0.588 | 0.594 | -1.0  | 103   | 0.00     |
| 42 M | Vinyl Acetate               | 0.889 | 0.912 | -2.6  | 103   | 0.00     |
| 43   | Ethyl Acetate               | 0.508 | 0.534 | -5.1  | 112   | 0.00     |
| 44   | Isopropyl Acetate           | 0.964 | 0.997 | -3.4  | 106   | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.008 | 0.009 | -12.5 | 114   | 0.00     |
| 46   | Methyl methacrylate         | 0.445 | 0.428 | 3.8   | 99    | 0.00     |
| 47   | n-amyl Acetate              | 0.822 | 0.805 | 2.1   | 102   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.657 | 0.642 | 2.3   | 101   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: May 16 23:00:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042325W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Apr 24 04:42:24 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 0.693 | 0.684 | 1.3   | 102   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.388 | 0.408 | -5.2  | 106   | 0.00     |
| 51   | Ethyl methacrylate          | 0.676 | 0.667 | 1.3   | 103   | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.686 | 0.705 | -2.8  | 105   | 0.00     |
| 53 M | Dibromochloromethane        | 0.436 | 0.441 | -1.1  | 104   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.395 | 0.410 | -3.8  | 106   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.318 | 0.285 | 10.4  | 92    | 0.00     |
| 56 M | Bromoform                   | 0.283 | 0.295 | -4.2  | 107   | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.581 | 0.591 | -1.7  | 105   | 0.00     |
| 59 M | 2-Hexanone                  | 0.428 | 0.438 | -2.3  | 105   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.590 | 0.567 | 3.9   | 99    | 0.00     |
| 61 M | Tetrachloroethene           | 0.458 | 0.463 | -1.1  | 108   | 0.00     |
| 62 M | Toluene                     | 2.008 | 2.018 | -0.5  | 104   | 0.00     |
| 63 S | Toluene-d8                  | 1.650 | 1.628 | 1.3   | 99    | 0.00     |
| 64 M | Chlorobenzene               | 1.251 | 1.280 | -2.3  | 106   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.418 | 0.433 | -3.6  | 108   | 0.00     |
| 66 M | Ethyl Benzene               | 2.260 | 2.221 | 1.7   | 102   | 0.00     |
| 67 M | m/p-Xylenes                 | 0.858 | 0.863 | -0.6  | 105   | 0.00     |
| 68 M | o-Xylene                    | 0.840 | 0.861 | -2.5  | 108   | 0.00     |
| 69 M | Styrene                     | 1.423 | 1.421 | 0.1   | 106   | 0.00     |
| 70   | Isopropylbenzene            | 2.096 | 2.070 | 1.2   | 103   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.552 | 0.629 | -13.9 | 112   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.481 | 0.522 | -8.5  | 113   | 0.00     |
| 73   | Bromobenzene                | 0.482 | 0.501 | -3.9  | 108   | 0.00     |
| 74   | n-propylbenzene             | 2.491 | 2.426 | 2.6   | 103   | 0.00     |
| 75   | 2-Chlorotoluene             | 1.555 | 1.546 | 0.6   | 104   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.720 | 1.686 | 2.0   | 104   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.244 | 0.234 | 4.1   | 103   | 0.00     |
| 78   | 4-Chlorotoluene             | 1.555 | 1.542 | 0.8   | 107   | 0.00     |
| 79   | tert-butylbenzene           | 1.473 | 1.455 | 1.2   | 104   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.757 | 1.699 | 3.3   | 103   | 0.00     |
| 81   | sec-Butylbenzene            | 2.103 | 2.046 | 2.7   | 105   | 0.00     |
| 82   | p-Isopropyltoluene          | 1.759 | 1.676 | 4.7   | 105   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.911 | 0.921 | -1.1  | 111   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.900 | 0.896 | 0.4   | 109   | 0.00     |
| 85   | n-Butylbenzene              | 1.570 | 1.441 | 8.2   | 103   | 0.00     |
| 86 T | Hexachloroethane            | 0.288 | 0.267 | 7.3   | 102   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.867 | 0.879 | -1.4  | 111   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.112 | 0.105 | 6.3   | 103   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.395 | 0.379 | 4.1   | 110   | 0.00     |
| 90   | Hexachlorobutadiene         | 0.159 | 0.156 | 1.9   | 111   | 0.00     |
| 91 M | Naphthalene                 | 1.414 | 1.296 | 8.3   | 105   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.395 | 0.379 | 4.1   | 110   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0