

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090624\  
 Data File : VN083695.D  
 Acq On : 06 Sep 2024 14:35  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN090624

Quant Time: Sep 06 23:45:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 06 23:42:47 2024  
 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                    | Amount  | Calc.   | %Dev | Area% | Dev(min) |
|------|-----------------------------|---------|---------|------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0  | 102   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 18.305  | 8.5  | 95    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 18.663  | 6.7  | 97    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 18.622  | 6.9  | 97    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 17.912  | 10.4 | 92    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 18.763  | 6.2  | 100   | -0.01    |
| 7 M  | Trichlorofluoromethane      | 20.000  | 18.470  | 7.7  | 98    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 18.791  | 6.0  | 99    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 18.479  | 7.6  | 99    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 18.378  | 8.1  | 98    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 18.347  | 8.3  | 97    | -0.01    |
| 12   | Methyl Acetate              | 20.000  | 18.200  | 9.0  | 101   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 104.937 | -4.9 | 100   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 90.791  | 9.2  | 97    | 0.00     |
| 15 M | Acetone                     | 100.000 | 85.256  | 14.7 | 96    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 17.410  | 13.0 | 91    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 17.590  | 12.1 | 94    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 18.184  | 9.1  | 95    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 17.995  | 10.0 | 94    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 17.779  | 11.1 | 97    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 18.342  | 8.3  | 98    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 18.142  | 9.3  | 95    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 93.850  | 6.2  | 97    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 18.391  | 8.0  | 96    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 18.167  | 9.2  | 95    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 18.166  | 9.2  | 97    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.424  | -1.4 | 103   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0  | 100   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 17.850  | 10.7 | 94    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 88.703  | 11.3 | 95    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 18.213  | 8.9  | 97    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 18.139  | 9.3  | 96    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 18.202  | 9.0  | 97    | 0.00     |
| 34 M | Benzene                     | 20.000  | 18.440  | 7.8  | 96    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.821  | 5.9  | 97    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 18.630  | 6.9  | 98    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 18.345  | 8.3  | 99    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 17.848  | 10.8 | 96    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 18.895  | 5.5  | 100   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 18.272  | 8.6  | 94    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 18.098  | 9.5  | 97    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 82.960  | 17.0 | 94    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 18.441  | 7.8  | 96    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 18.183  | 9.1  | 96    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 389.428 | 2.6  | 97    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 18.598  | 7.0  | 100   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 18.382  | 8.1  | 99    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 17.011  | 14.9 | 91    | 0.00     |

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

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
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 QLast Update : Fri Sep 06 23:42:47 2024  
 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                    | Amount  | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|---------|--------|------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 17.769 | 11.2 | 96    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 18.465 | 7.7  | 97    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 17.893 | 10.5 | 93    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 18.033 | 9.8  | 95    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 17.998 | 10.0 | 98    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 18.052 | 9.7  | 96    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 89.240 | 10.8 | 84    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 17.360 | 13.2 | 94    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0  | 100   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 93.719 | 6.3  | 97    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 91.318 | 8.7  | 96    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.363 | 2.1  | 100   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 17.644 | 11.8 | 96    | 0.00     |
| 62 M | Toluene                     | 20.000  | 18.193 | 9.0  | 96    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.014 | -0.0 | 100   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 17.878 | 10.6 | 94    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 18.692 | 6.5  | 99    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 17.796 | 11.0 | 97    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 36.072 | 9.8  | 96    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 18.197 | 9.0  | 95    | 0.00     |
| 69 M | Styrene                     | 20.000  | 17.479 | 12.6 | 93    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 18.246 | 8.8  | 98    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 18.347 | 8.3  | 95    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 18.507 | 7.5  | 96    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 17.272 | 13.6 | 92    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 17.536 | 12.3 | 95    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 18.021 | 9.9  | 96    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 17.923 | 10.4 | 94    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 16.682 | 16.6 | 91    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 17.508 | 12.5 | 94    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 17.537 | 12.3 | 92    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 17.779 | 11.1 | 95    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 17.765 | 11.2 | 97    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 17.619 | 11.9 | 97    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 17.609 | 12.0 | 95    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 16.562 | 17.2 | 89    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 16.647 | 16.8 | 94    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 17.706 | 11.5 | 97    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 17.551 | 12.2 | 95    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 18.041 | 9.8  | 96    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 15.835 | 20.8 | 86    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 16.708 | 16.5 | 93    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 16.206 | 19.0 | 88    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 15.835 | 20.8 | 86    | 0.00     |

(#) = Out of Range

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