

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011524\  
 Data File : VN080723.D  
 Acq On : 15 Jan 2024 18:40  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 16 00:43:47 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 06:34:36 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   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.660  | 8.7   | 73    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 55.949  | -11.9 | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 54.125  | -8.3# | 93    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.351  | -2.7  | 90    | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 54.116  | -8.2  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.649  | 10.7  | 73    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.764  | 4.5   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.259  | 5.5   | 80    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 50.547  | -1.1  | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 213.771 | 14.5  | 71    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.745  | 6.5#  | 87    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 251.726 | -0.7  | 96    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.316  | 7.4   | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 239.048 | 4.4   | 83    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 225.909 | 9.6   | 70    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.100  | 7.8   | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.802  | 2.4   | 83    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.681  | 4.6   | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.465  | 5.1   | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.059  | -0.1  | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.193  | -8.4  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 251.017 | -0.4  | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.034  | -4.1  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 228.432 | 8.6   | 79    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.726  | 4.5   | 82    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.380  | -6.8  | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.589  | 2.8   | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 234.222 | 6.3   | 80    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.550  | 0.9#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.941  | 2.1   | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.180  | 5.6   | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.107  | 15.8  | 69    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.494  | 9.0   | 74    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.519  | 7.0   | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 44.838  | 10.3  | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 43.805  | 12.4  | 77    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.875  | 2.3   | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.249  | -0.5  | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.353  | 9.3   | 79    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 43.497  | 13.0  | 78    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 44.960  | 10.1  | 80    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.142  | 7.7   | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.794  | -1.6# | 93    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 46.816  | 6.4   | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 45.029  | 9.9   | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 46.253  | 7.5   | 83    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 16 00:43:47 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 06:34:36 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  | 1,4-Dioxane                 | 1000.000 | 836.874 | 16.3  | 69    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.083  | 3.8   | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 230.001 | 8.0   | 82    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.583  | -1.2# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 47.958  | 4.1   | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.020  | 2.0   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.727  | 2.5   | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 46.310  | 7.4   | 84    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.869  | -1.7  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 257.117 | -2.8  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 224.389 | 10.2  | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 46.100  | 7.8   | 83    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.790  | 2.4   | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 43.374  | 13.3  | 74    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.186  | 5.6   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.402  | 1.2   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.347  | 7.3   | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.522  | 1.0#  | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.341  | 0.7   | 87    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.574  | -3.1  | 89    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.847  | 0.3   | 87    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 45.280  | 9.4   | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.559  | -1.1  | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.242  | 5.5   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.510  | 7.0   | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 41.506  | 17.0  | 76    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.803  | 2.4   | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.506  | -1.0  | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.703  | 6.6   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.612  | 2.8   | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.705  | 10.6  | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.451  | 3.1   | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.865  | 2.3   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.953  | 2.1   | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.230  | -0.5  | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.921  | 2.2   | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.695  | 2.6   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.850  | 4.3   | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.851  | 0.3   | 85    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 46.439  | 7.1   | 82    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.188  | 1.6   | 85    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 40.227  | 19.5  | 71    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 46.764  | 6.5   | 80    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 44.192  | 11.6  | 83    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 43.346  | 13.3  | 75    | 0.00     |

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Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Jan 16 00:43:47 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 11 06:34:36 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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 46.130 | 7.7  | 78    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6