

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022724\  
 Data File : VN081234.D  
 Acq On : 27 Feb 2024 21:12  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 28 04:25:34 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 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    | 62    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 53.152  | -6.3   | 62    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.532  | 6.9    | 57    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.715  | -1.4#  | 64    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.898  | 14.2   | 56    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 55.882  | -11.8  | 69    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 54.026  | -8.1   | 68    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.004  | -8.0   | 67    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.769  | -7.5   | 67    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.120  | -0.2   | 60    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 263.973 | -5.6   | 72    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.627  | -1.3#  | 64    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 234.866 | 6.1    | 64    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.840  | -3.7   | 65    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 296.039 | -18.4  | 76    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 269.473 | -7.8   | 72    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.067  | 9.9    | 58    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 67.914  | -35.8# | 83    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.663  | -11.3  | 69    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 58.491  | -17.0  | 72    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.648  | -3.3   | 67    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 58.114  | -16.2  | 72    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 276.929 | -10.8  | 68    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.753  | -15.5  | 72    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 280.136 | -12.1  | 73    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.472  | 9.1    | 56    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.319  | -8.6   | 68    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 61.603  | -23.2  | 78    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 284.229 | -13.7  | 74    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 58.798  | -17.6# | 74    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.533  | 2.9    | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 56.326  | -12.7  | 71    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.280  | -6.6   | 70    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 64    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.865  | -7.7   | 70    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.194  | -4.4   | 68    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.503  | -11.0  | 72    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.544  | -11.1  | 69    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.969  | -1.9   | 65    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.123  | -10.2  | 71    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.563  | -11.1  | 79    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 56.269  | -12.5  | 73    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 55.449  | -10.9  | 72    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.162  | -4.3   | 70    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 57.349  | -14.7# | 74    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 55.930  | -11.9  | 74    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 58.516  | -17.0  | 72    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 56.477  | -13.0  | 75    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 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 | 1233.911 | -23.4  | 75    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.282   | 1.4    | 66    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 296.944  | -18.8  | 76    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.648   | -11.3# | 70    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.174   | -10.3  | 66    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.080   | -8.2   | 68    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 58.894   | -17.8  | 73    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 57.487   | -15.0  | 71    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 57.865   | -15.7  | 74    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 285.628  | -14.3  | 73    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 274.216  | -9.7   | 66    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 58.669   | -17.3  | 70    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 56.165   | -12.3  | 71    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.622   | -3.2   | 69    | 0.00     |
|       |                             |          |          |        |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 65    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 59.067   | -18.1  | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.273   | -6.5   | 71    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.110   | -12.2  | 72    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.626   | -7.3#  | 70    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.300  | -6.3   | 69    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.657   | -7.3   | 70    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.049   | -12.1  | 71    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.618   | -17.2  | 70    | 0.00     |
|       |                             |          |          |        |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 69    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.111   | -4.2   | 72    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.222   | 1.6    | 67    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.512   | -7.0   | 76    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.985   | 6.0    | 69    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.247   | -2.5   | 73    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.394   | -6.8   | 72    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.995   | -2.0   | 73    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.616   | -7.2   | 72    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.068   | -8.1   | 73    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.610   | -3.2   | 72    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.835   | -9.7   | 75    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.898   | -9.8   | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 55.929   | -11.9  | 75    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.022   | -10.0  | 74    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.328   | -2.7   | 74    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.245   | -4.5   | 73    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.456   | -10.9  | 74    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 56.744   | -13.5  | 73    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.648   | -3.3   | 73    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 50.756   | -1.5   | 72    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 49.868   | 0.3    | 68    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 49.720   | 0.6    | 69    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 50.474   | -0.9   | 69    | 0.00     |

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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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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 | 51.758 | -3.5 | 70    | 0.00     |

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