

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013023\  
 Data File : VN076472.D  
 Acq On : 30 Jan 2023 21:18  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 31 03:25:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 2023  
 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    | 110   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.342  | 5.3    | 101   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 61.877  | -23.8  | 138   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 57.118  | -14.2# | 127   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.016  | 6.0    | 107   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.329  | 1.3    | 116   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 65.083  | -30.2# | 146   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 63.640  | -27.3# | 137   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.492  | 3.0    | 108   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.160  | 1.7    | 107   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 315.960 | -26.4# | 138   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.612  | 2.8#   | 107   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 285.049 | -14.0  | 127   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.179  | -8.4   | 121   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 275.952 | -10.4  | 120   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 272.427 | -9.0   | 123   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.854  | 16.3   | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 56.419  | -12.8  | 128   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.260  | -12.5  | 121   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.367  | -2.7   | 116   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.102  | 3.8    | 108   | 0.01     |
| 22 T  | Diisopropyl ether           | 50.000  | 59.235  | -18.5  | 127   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 302.556 | -21.0  | 124   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.154  | -8.3   | 120   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 274.177 | -9.7   | 121   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.531  | -3.1   | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.552  | -5.1   | 117   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 55.303  | -10.6  | 119   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 292.389 | -17.0  | 123   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.988  | -12.0# | 124   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 44.869  | 10.3   | 108   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.394  | -10.8  | 122   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 56.576  | -13.2  | 126   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 132   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 44.763  | 10.5   | 121   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.290  | 9.4    | 119   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.382  | 9.2    | 122   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.617  | 6.8    | 122   | 0.01     |
| 39 T  | Methylcyclohexane           | 50.000  | 40.248  | 19.5   | 101   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 43.500  | 13.0   | 115   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.544  | 4.9    | 123   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.114  | 3.8    | 128   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 59.232  | -18.5  | 152   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 44.201  | 11.6   | 121   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 45.223  | 9.6#   | 121   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 44.559  | 10.9   | 118   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 48.499  | 3.0    | 126   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 49.623  | 0.8    | 127   | 0.00     |

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 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1006.563 | -0.7   | 123   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 43.473   | 13.1   | 114   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 250.524  | -0.2   | 127   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 43.101   | 13.8#  | 114   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.717   | -1.4   | 122   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 46.808   | 6.4    | 119   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.045   | -6.1   | 144   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.825   | -13.7  | 137   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.881   | -11.8  | 146   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 249.417  | 0.2    | 121   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 291.481  | -16.6  | 146   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.440   | -8.9   | 135   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 59.255   | -18.5  | 152   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.013   | 2.0    | 124   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 116   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 40.260   | 19.5   | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.167   | 1.7    | 116   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.477   | -7.0   | 125   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.462   | -4.9#  | 117   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.981  | -2.0   | 115   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.216   | -2.4   | 114   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.516   | -7.0   | 117   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.092   | -10.2  | 119   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 114   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.389   | -0.8   | 117   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 56.720   | -13.4  | 127   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.425   | -2.8   | 124   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.354   | 1.3    | 112   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.026   | -0.1   | 116   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.268   | -2.5   | 117   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.618   | 0.8    | 119   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.647   | -3.3   | 118   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.117   | -4.2   | 112   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.618   | 0.8    | 119   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.192   | -10.4  | 128   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 56.690   | -13.4  | 130   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.129   | -4.3   | 117   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.147   | -6.3   | 116   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.806   | 6.4    | 113   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.141   | 3.7    | 112   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.470   | -8.9   | 116   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 59.616   | -19.2  | 132   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 57.242   | -14.5  | 139   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 62.543   | -25.1# | 133   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 50.267   | -0.5   | 115   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 45.958   | 8.1    | 107   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 45.876   | 8.2    | 107   | 0.00     |

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Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
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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 | 45.720 | 8.6  | 105   | 0.00     |

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