

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092523\  
 Data File : VN079343.D  
 Acq On : 25 Sep 2023 16:27  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 26 06:19:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 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    | 119   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.669  | 0.7    | 128   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.130  | 1.7    | 131   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.989  | -4.0#  | 133   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.591  | -3.2   | 138   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 55.503  | -11.0  | 135   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.846  | 0.3    | 129   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.519  | -7.0   | 131   | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.877  | -7.8   | 141   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 68.538  | -37.1# | 151   | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 189.995 | 24.0   | 103   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.467  | 1.1#   | 124   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 289.196 | -15.7  | 147   | -0.01    |
| 14 T  | Allyl chloride              | 50.000  | 53.312  | -6.6   | 135   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 251.103 | -0.4   | 126   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 301.340 | -20.5  | 153   | -0.01    |
| 17 T  | Carbon Disulfide            | 50.000  | 38.084  | 23.8   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.758  | -3.5   | 134   | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.062  | -4.1   | 125   | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 47.275  | 5.5    | 128   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.562  | 4.9    | 119   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 57.089  | -14.2  | 135   | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 273.500 | -9.4   | 128   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.196  | -6.4   | 132   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 269.994 | -8.0   | 130   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.980  | -6.0   | 127   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.070  | -0.1   | 122   | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 53.862  | -7.7   | 122   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 265.189 | -6.1   | 125   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.212  | -6.4#  | 132   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.541  | 2.9    | 127   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.525  | -3.0   | 124   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.005  | -4.0   | 118   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 122   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.396  | 1.2    | 112   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.237  | -4.5   | 125   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.880  | -1.8   | 122   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.268  | -0.5   | 124   | -0.01    |
| 39 T  | Methylcyclohexane           | 50.000  | 52.584  | -5.2   | 122   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.586  | -1.2   | 123   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.507  | -7.0   | 124   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.698  | -7.4   | 133   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.536  | -7.1   | 131   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.468  | 3.1    | 121   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.358  | -10.7# | 131   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.971  | -7.9   | 128   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 55.239  | -10.5  | 130   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 54.973  | -9.9   | 129   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 26 06:19:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 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) |
|-------|-----------------------------|----------|---------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 908.877 | 9.1    | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.010  | -0.0   | 112   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 281.484 | -12.6  | 131   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.344  | -2.7#  | 123   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.175  | -6.3   | 123   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.385  | -10.8  | 129   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.358  | -6.7   | 130   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.707  | -9.4   | 119   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.912  | -5.8   | 127   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 318.123 | -27.2# | 166   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 284.274 | -13.7  | 129   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.197  | -6.4   | 125   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.410  | -2.8   | 120   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.797  | -5.6   | 114   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 126   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.824  | 10.4   | 120   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.005  | 4.0    | 126   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.682  | 2.6    | 126   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.534  | -5.1#  | 127   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.652 | -4.7   | 125   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.174  | -4.3   | 123   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.669  | -11.3  | 126   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.457  | 5.1    | 114   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 130   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.399  | 7.2    | 130   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 48.937  | 2.1    | 129   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 41.399  | 17.2   | 130   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.417  | 11.2   | 137   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 41.024  | 18.0   | 119   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.932  | 0.1    | 135   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 44.895  | 10.2   | 130   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.902  | 6.2    | 130   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.593  | 14.8   | 120   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.671  | 6.7    | 129   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.176  | 7.6    | 126   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.061  | 1.9    | 132   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.731  | 0.5    | 136   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.810  | -1.6   | 136   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.190  | 7.6    | 129   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 44.414  | 11.2   | 126   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.975  | -10.0  | 143   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 47.053  | 5.9    | 136   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 45.858  | 8.3    | 130   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 43.024  | 14.0   | 112   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.989  | 2.0    | 114   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 38.569  | 22.9   | 121   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 42.293  | 15.4   | 102   | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 12 05:05:24 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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 43.517 | 13.0 | 115   | 0.00     |

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