

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082823\  
 Data File : VN079056.D  
 Acq On : 28 Aug 2023 09:55  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 29 03:54:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 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     | 120   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.208  | 5.6     | 118   | -0.01    |
| 3 P   | Chloromethane               | 50.000  | 34.693  | 30.6#   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 41.400  | 17.2#   | 102   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.573  | 12.9    | 113   | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 40.564  | 18.9    | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.404  | -0.8    | 122   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.607  | 2.8     | 121   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.872  | -1.7    | 124   | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 56.906  | -13.8   | 129   | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 223.460 | 10.6    | 110   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.058  | -0.1#   | 121   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 569.708 | -127.9# | 178   | -0.02    |
| 14 T  | Allyl chloride              | 50.000  | 49.633  | 0.7     | 115   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 240.180 | 3.9     | 115   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 298.684 | -19.5   | 140   | -0.01    |
| 17 T  | Carbon Disulfide            | 50.000  | 42.553  | 14.9    | 105   | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 45.954  | 8.1     | 113   | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.291  | -4.6    | 124   | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 47.226  | 5.5     | 118   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.884  | 0.2     | 120   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.259  | -2.5    | 121   | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 243.006 | 2.8     | 112   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.759  | 0.5     | 121   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 245.148 | 1.9     | 117   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.116  | -6.2    | 127   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.404  | 1.2     | 122   | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 46.071  | 7.9     | 110   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 231.509 | 7.4     | 112   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.956  | -1.9#   | 122   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.010  | 4.0     | 113   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.818  | -3.6    | 125   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.295  | 9.4     | 110   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0     | 112   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.870  | -5.7    | 116   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.185  | -8.4    | 117   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.427  | -4.9    | 113   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 56.474  | -12.9   | 124   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.699  | -9.4    | 118   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.361  | -6.7    | 118   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.653  | -11.3   | 119   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.233  | -4.5    | 117   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.374  | -2.7    | 114   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 57.596  | -15.2   | 128   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.085  | -10.2#  | 120   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.742  | -7.5    | 122   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 56.621  | -13.2   | 125   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.403  | -6.8    | 119   | 0.00     |

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

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 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 29 03:54:29 2023  
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 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 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 | 994.581 | 0.5    | 109   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.253  | -0.5   | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 257.474 | -3.0   | 112   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.405  | -10.8# | 121   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.290  | -14.6  | 121   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.040  | -12.1  | 122   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.165  | -12.3  | 124   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.458  | -10.9  | 117   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.298  | -8.6   | 121   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 217.415 | 13.0   | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 263.036 | -5.2   | 113   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 59.101  | -18.2  | 129   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.040  | -10.1  | 122   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.639  | -7.3   | 113   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 110   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 60.389  | -20.8  | 137   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 56.876  | -13.8  | 124   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 58.496  | -17.0  | 125   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.952  | -11.9# | 122   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 113.830 | -13.8  | 121   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.846  | -15.7  | 121   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.161  | -14.3  | 119   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 59.294  | -18.6  | 126   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 110   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.729  | -9.5   | 123   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 49.428  | 1.1    | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.783  | 2.4    | 115   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.864  | 4.3    | 112   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 55.175  | -10.3  | 124   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.653  | -9.3   | 120   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.286  | -6.6   | 122   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.710  | -11.4  | 124   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.349  | 1.3    | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.891  | -5.8   | 116   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 58.346  | -16.7  | 127   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 56.309  | -12.6  | 123   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.300  | -12.6  | 125   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 59.113  | -18.2  | 128   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 55.305  | -10.6  | 121   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.981  | -10.0  | 122   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 58.706  | -17.4  | 124   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.987  | -10.0  | 130   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 55.653  | -11.3  | 125   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 53.413  | -6.8   | 111   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 66.547  | -33.1# | 138   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 69.893  | -39.8# | 148   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 50.284  | -0.6   | 113   | 0.00     |

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

Instrument :  
MSVOA\_N  
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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 | 59.925 | -19.8 | 128   | 0.00     |

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