

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072023\  
 Data File : VN078602.D  
 Acq On : 20 Jul 2023 18:46  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 21 06:20:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.746  | 18.5  | 82    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.083  | 9.8   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.520  | 7.0#  | 94    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.803  | 6.4   | 86    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.628  | 2.7   | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.176  | 7.6   | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.334  | 3.3   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.958  | 6.1   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.018  | 6.0   | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 245.741 | 1.7   | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.855  | 8.3#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 224.441 | 10.2  | 85    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.588  | 8.8   | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 250.900 | -0.4  | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 246.368 | 1.5   | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 37.850  | 24.3  | 77    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.148  | -0.3  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.986  | 0.0   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.973  | -1.9  | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.468  | 9.1   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.584  | -5.2  | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 255.121 | -2.0  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.157  | 1.7   | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 254.404 | -1.8  | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.848  | 8.3   | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.084  | 1.8   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.161  | 5.7   | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 252.987 | -1.2  | 95    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.737  | -3.5# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.634  | 14.7  | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.186  | 1.6   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.571  | -1.1  | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.471  | -2.9  | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.620  | 4.8   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.526  | -3.1  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.153  | 1.7   | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.231  | 3.5   | 90    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.031  | -0.1  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.551  | -9.1  | 103   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.986  | 0.0   | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.409  | -6.8  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.206  | 5.6   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.765  | -3.5# | 99    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 51.009  | -2.0  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.502  | -5.0  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 51.499  | -3.0  | 93    | 0.00     |

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 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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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 | 1053.118 | -5.3  | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.155   | -0.3  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 269.066  | -7.6  | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.141   | -0.3# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.722   | -3.4  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.170   | -6.3  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.631   | -5.3  | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.945   | -7.9  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.200   | -2.4  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 252.410  | -1.0  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 267.979  | -7.2  | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.891   | -5.8  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.188   | -2.4  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.699   | -5.4  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 43.999   | 12.0  | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.496   | 3.0   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.801   | 0.4   | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.576   | -1.2# | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.816  | -3.8  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.694   | -1.4  | 96    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.355   | -6.7  | 97    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.671   | -3.3  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 44.164   | 11.7  | 95    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 44.844   | 10.3  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.765   | -3.5  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.340   | 13.3  | 94    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.122   | 3.8   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 45.369   | 9.3   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 43.296   | 13.4  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 45.207   | 9.6   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.747   | 14.5  | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 44.567   | 10.9  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 45.177   | 9.6   | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 46.492   | 7.0   | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 44.716   | 10.6  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 46.346   | 7.3   | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 45.187   | 9.6   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 43.195   | 13.6  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.060   | 1.9   | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 48.632   | 2.7   | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 45.149   | 9.7   | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.553   | 8.9   | 90    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 44.441   | 11.1  | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 50.291   | -0.6  | 92    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 39.771   | 20.5  | 78    | 0.00     |

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ALS Vial : 20 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 | 43.218 | 13.6 | 86    | 0.00     |

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