

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072723\  
 Data File : VN078653.D  
 Acq On : 27 Jul 2023 10:58  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 27 15:59:51 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    | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.400  | -2.8   | 102   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 57.172  | -14.3  | 118   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 55.498  | -11.0# | 112   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 56.786  | -13.6  | 102   | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 57.989  | -16.0  | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.586  | 0.8    | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.810  | -7.6   | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.069  | -2.1   | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.377  | -8.8   | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 258.570 | -3.4   | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.550  | -1.1#  | 97    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 294.026 | -17.6  | 110   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.114  | 1.8    | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 261.355 | -4.5   | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 259.204 | -3.7   | 104   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.678  | 2.6    | 98    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.515  | -3.0   | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.031  | -8.1   | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 54.342  | -8.7   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.665  | -1.3   | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.252  | -10.5  | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 278.809 | -11.5  | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.688  | -1.4   | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 267.339 | -6.9   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.964  | -5.9   | 101   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.861  | -5.7   | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.154  | 1.7    | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 265.733 | -6.3   | 98    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.620  | -5.2#  | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.343  | 3.3    | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.885  | -3.8   | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.097  | 1.8    | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.840  | -7.7   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.251  | -8.5   | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.814  | -11.6  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.652  | -11.3  | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 57.300  | -14.6  | 101   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.090  | -10.2  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.550  | -13.1  | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.605  | -11.2  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 59.733  | -19.5  | 104   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.128  | -6.3   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 56.931  | -13.9# | 102   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 58.172  | -16.3  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 56.195  | -12.4  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 56.503  | -13.0  | 96    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 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 | 1154.276 | -15.4  | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.154   | -0.3   | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 287.249  | -14.9  | 98    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 57.192   | -14.4# | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 58.826   | -17.7  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 59.126   | -18.3  | 99    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 57.493   | -15.0  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 60.368   | -20.7  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.597   | -11.2  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 267.244  | -6.9   | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 286.979  | -14.8  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 58.458   | -16.9  | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 57.279   | -14.6  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.223   | -6.4   | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.184   | -4.4   | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.101   | -8.2   | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.811   | -9.6   | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 56.459   | -12.9# | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 116.886  | -16.9  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.780   | -13.6  | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.691   | -15.4  | 98    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 60.594   | -21.2  | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.067   | -0.1   | 98    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 50.640   | -1.3   | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 56.318   | -12.6  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.078   | 1.8    | 97    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 57.549   | -15.1  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.233   | -4.5   | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.286   | 1.4    | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.900   | -3.8   | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.413   | -0.8   | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.181   | -2.4   | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.187   | -2.4   | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.843   | -5.7   | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.199   | -2.4   | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.352   | -6.7   | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.701   | -5.4   | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.951   | -1.9   | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.526   | -11.1  | 99    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 55.918   | -11.8  | 103   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.867   | -1.7   | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 52.334   | -4.7   | 94    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 51.252   | -2.5   | 87    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 61.294   | -22.6  | 101   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 46.371   | 7.3    | 83    | 0.00     |

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Sample : VSTDCCC050  
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ALS Vial : 2 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 | 50.474 | -0.9 | 91    | 0.00     |

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