

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051623\  
 Data File : VN077683.D  
 Acq On : 16 May 2023 11:09  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 17 03:55:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.126  | 1.7   | 88    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.853  | 4.3   | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.994  | 4.0#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.254  | 9.5   | 90    | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 50.238  | -0.5  | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.703  | 2.6   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.567  | 2.9   | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.897  | 2.2   | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.439  | -8.9  | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 226.508 | 9.4   | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.626  | 0.7#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 266.647 | -6.7  | 94    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.799  | 6.4   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 237.953 | 4.8   | 92    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 226.017 | 9.6   | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.891  | 8.2   | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.046  | 5.9   | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.488  | 1.0   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.363  | -0.7  | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.588  | 2.8   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.823  | 0.4   | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 241.442 | 3.4   | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.928  | 0.1   | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 237.496 | 5.0   | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.315  | -2.6  | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.214  | 1.6   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.612  | -1.2  | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 235.396 | 5.8   | 93    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.120  | 3.8#  | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.833  | 6.3   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.242  | -0.5  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.587  | -3.2  | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.129  | -4.3  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.619  | -1.2  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 44.707  | 10.6  | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.769  | -3.5  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.210  | -2.4  | 94    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.804  | -1.6  | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.854  | 0.3   | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.723  | 0.6   | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.255  | 3.5   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.553  | 0.9   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.971  | -1.9# | 95    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.403  | 3.2   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.967  | -5.9  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.757  | -1.5  | 95    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 17 03:55:59 2023  
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 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 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 | 904.354 | 9.6   | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.749  | -5.5  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 246.711 | 1.3   | 92    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.000  | -2.0# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.924  | -1.8  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.859  | -1.7  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.094  | -0.2  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.693  | -1.4  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.155  | -0.3  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 246.325 | 1.5   | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 240.238 | 3.9   | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.163  | -2.3  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.012  | -0.0  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.154  | -4.3  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.953  | -5.9  | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.968  | 0.1   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.559  | -5.1  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.261  | -2.5# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.505 | -2.5  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.672  | -1.3  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.135  | -4.3  | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.353  | -6.7  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.915  | 0.2   | 93    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 45.509  | 9.0   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 45.519  | 9.0   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 42.446  | 15.1  | 83    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.450  | 7.1   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.295  | 1.4   | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.977  | 2.0   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.144  | 1.7   | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 56.902  | -13.8 | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.627  | 4.7   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.657  | 2.7   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.114  | -0.2  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.458  | 1.1   | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.648  | -1.3  | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.722  | 6.6   | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.814  | 6.4   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.047  | 1.9   | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 52.399  | -4.8  | 92    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 48.436  | 3.1   | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 46.822  | 6.4   | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 46.134  | 7.7   | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.671  | 6.7   | 86    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 43.370  | 13.3  | 86    | 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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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 | 45.958 | 8.1  | 87    | 0.00     |

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