

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031723\  
 Data File : VN077034.D  
 Acq On : 17 Mar 2023 14:32  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 18 02:28:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 18 02:17:37 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   | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.908  | 10.2  | 78    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 40.260  | 19.5  | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.276  | 13.4# | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.374  | 3.3   | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.904  | -3.8  | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 43.897  | 12.2  | 81    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.864  | -3.7  | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 43.171  | 13.7  | 82    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.455  | 1.1   | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 280.211 | -12.1 | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 44.726  | 10.5# | 81    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 262.366 | -4.9  | 95    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.104  | -8.2  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 261.837 | -4.7  | 93    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 237.203 | 5.1   | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.145  | 11.7  | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.784  | -3.6  | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.893  | -5.8  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.176  | 3.6   | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.053  | 5.9   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.309  | -6.6  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 273.271 | -9.3  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.567  | 2.9   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 265.172 | -6.1  | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.414  | 5.2   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.193  | -2.4  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 43.005  | 14.0  | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 277.631 | -11.1 | 95    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.051  | 1.9#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.463  | 13.1  | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.611  | 6.8   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.220  | 1.6   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.086  | 9.8   | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.848  | 8.3   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.065  | -0.1  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 45.076  | 9.8   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.229  | 5.5   | 81    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.524  | 5.0   | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.848  | -1.7  | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.315  | 1.4   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.094  | -4.2  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 44.722  | 10.6  | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.179  | 1.6#  | 91    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.553  | 2.9   | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 48.096  | 3.8   | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 54.562  | -9.1  | 93    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Sat Mar 18 02:17:37 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 | 1093.773 | -9.4  | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.755   | 8.5   | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 264.763  | -5.9  | 93    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.649   | 2.7#  | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.928   | -7.9  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.117   | -4.2  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.433   | 1.1   | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.614   | -11.2 | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.548   | 0.9   | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 280.079  | -12.0 | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 265.427  | -6.2  | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.208   | -2.4  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.071   | -0.1  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.439   | 3.1   | 83    | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.119   | 11.8  | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.337   | 7.3   | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.799   | 6.4   | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.202   | 3.6#  | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.362   | 2.6   | 86    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.326   | 3.3   | 86    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.297   | -4.6  | 88    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.197   | -2.4  | 91    | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.611   | 4.8   | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.375   | -6.8  | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.859   | 10.3  | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.370   | 9.3   | 80    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.710   | 6.6   | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.391   | 1.2   | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.515   | 5.0   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.816   | 0.4   | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.245   | -0.5  | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.930   | 2.1   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.028   | 3.9   | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.915   | 0.2   | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.651   | 0.7   | 84    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.197   | -2.4  | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.793   | 6.4   | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.825   | 8.3   | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.359   | -2.7  | 84    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 45.325   | 9.3   | 85    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 46.261   | 7.5   | 87    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 49.099   | 1.8   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 52.696   | -5.4  | 85    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.247   | 7.5   | 84    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 47.220   | 5.6   | 86    | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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Quant Title : SW846 8260  
QLast Update : Sat Mar 18 02:17:37 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 | 52.901 | -5.8 | 88    | 0.00     |

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