

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091123\  
 Data File : VN079221.D  
 Acq On : 11 Sep 2023 16:54  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN091123

Quant Time: Sep 12 05:19:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 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   | 107   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.728  | 4.5   | 111   | -0.01    |
| 3 P   | Chloromethane               | 50.000  | 45.202  | 9.6   | 108   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.124  | 3.8#  | 111   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.553  | 10.9  | 107   | -0.02    |
| 6 T   | Chloroethane                | 50.000  | 51.622  | -3.2  | 114   | -0.01    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.290  | 5.4   | 111   | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 50.868  | -1.7  | 112   | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.069  | 3.9   | 113   | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 57.656  | -15.3 | 115   | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 215.638 | 13.7  | 105   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.793  | -1.6# | 114   | -0.01    |
| 13 T  | Acrolein                    | 250.000 | 219.642 | 12.1  | 101   | -0.02    |
| 14 T  | Allyl chloride              | 50.000  | 47.878  | 4.2   | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 244.154 | 2.3   | 110   | -0.01    |
| 16 T  | Acetone                     | 250.000 | 260.059 | -4.0  | 119   | -0.01    |
| 17 T  | Carbon Disulfide            | 50.000  | 44.755  | 10.5  | 110   | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 47.083  | 5.8   | 110   | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.840  | -1.7  | 110   | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 46.906  | 6.2   | 114   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.222  | 1.6   | 111   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.743  | -5.5  | 113   | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 264.764 | -5.9  | 112   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.464  | -0.9  | 113   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 259.336 | -3.7  | 112   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.199  | -6.4  | 115   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.004  | -2.0  | 112   | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 52.317  | -4.6  | 107   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 256.912 | -2.8  | 109   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.556  | -1.1# | 113   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.658  | 4.7   | 113   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.917  | -1.8  | 111   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.066  | -4.1  | 107   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.106  | -6.2  | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.682  | -5.4  | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.400  | -0.8  | 106   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.341  | -4.7  | 113   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.517  | -13.0 | 115   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.495  | -5.0  | 112   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.730  | -13.5 | 115   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.390  | -0.8  | 109   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.386  | -2.8  | 110   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.008  | -4.0  | 113   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.459  | -8.9# | 113   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 54.169  | -8.3  | 113   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.166  | -6.3  | 109   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.477  | -7.0  | 110   | 0.00     |

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 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN091123

Quant Time: Sep 12 05:19:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 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 | 1086.740 | -8.7   | 112   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 56.157   | -12.3  | 110   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 270.284  | -8.1   | 110   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.469   | -8.9#  | 114   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.121   | -12.2  | 114   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.985   | -12.0  | 114   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.289   | -6.6   | 114   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 59.885   | -19.8  | 114   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.648   | -7.3   | 113   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 234.486  | 6.2    | 103   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 277.718  | -11.1  | 110   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.518   | -9.0   | 112   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.829   | -9.7   | 112   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 59.159   | -18.3  | 112   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.531   | 0.9    | 115   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.554   | -3.1   | 117   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.026   | -4.1   | 116   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.620   | -11.2# | 116   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 111.875  | -11.9  | 116   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.516   | -13.0  | 115   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 59.424   | -18.8  | 116   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.932   | -7.9   | 112   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 109   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.062   | 1.9    | 115   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 50.291   | -0.6   | 111   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 42.810   | 14.4   | 112   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.068   | 3.9    | 124   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.157   | 5.7    | 114   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.564   | -3.1   | 116   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.416   | 5.2    | 115   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.882   | 2.2    | 114   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.100   | 3.8    | 113   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.814   | -1.6   | 118   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.933   | 0.1    | 114   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.432   | -2.9   | 115   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.929   | 0.1    | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.038   | -4.1   | 116   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.569   | 0.9    | 116   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.177   | 3.6    | 114   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.500   | -9.0   | 118   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 46.693   | 6.6    | 113   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.930   | 4.1    | 113   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 47.758   | 4.5    | 104   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 53.153   | -6.3   | 103   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 43.331   | 13.3   | 114   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 49.368   | 1.3    | 99    | 0.00     |

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Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN091123

Quant Time: Sep 12 05:19:12 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 12 05:05:24 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 | 47.176 | 5.6  | 104   | 0.00     |

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