

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031425\  
 Data File : VN085993.D  
 Acq On : 14 Mar 2025 16:45  
 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 15 00:05:58 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 19 03:43:32 2025  
 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   | 53    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.254  | 9.5   | 49    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 35.976  | 28.0# | 42    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 36.039  | 27.9# | 41    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 34.072  | 31.9# | 40    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 32.294  | 35.4# | 39    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 43.754  | 12.5  | 51    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 43.638  | 12.7  | 48    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 41.926  | 16.1  | 48    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.204  | 9.6   | 50    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 217.579 | 13.0  | 47    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 43.338  | 13.3# | 48    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 186.532 | 25.4# | 37    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 41.770  | 16.5  | 46    | 0.01     |
| 15 T  | Acrylonitrile               | 250.000 | 214.801 | 14.1  | 48    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 199.247 | 20.3  | 47    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.796  | 16.4  | 49    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 33.981  | 32.0# | 41    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.477  | 1.0   | 52    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 41.209  | 17.6  | 49    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 42.521  | 15.0  | 49    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 42.130  | 15.7  | 44    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 218.850 | 12.5  | 46    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 41.996  | 16.0  | 48    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 205.770 | 17.7  | 45    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.167  | 9.7   | 50    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 43.076  | 13.8  | 47    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 38.884  | 22.2  | 42    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 215.749 | 13.7  | 46    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 43.805  | 12.4# | 50    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 40.509  | 19.0  | 46    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.174  | 7.7   | 52    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 37.732  | 24.5  | 42    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 52    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 38.080  | 23.8  | 41    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.295  | 7.4   | 48    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 42.202  | 15.6  | 45    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.366  | -0.7  | 54    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.270  | 5.5   | 45    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.766  | 8.5   | 49    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 43.106  | 13.8  | 42    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.488  | 5.0   | 52    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 44.020  | 12.0  | 48    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 44.010  | 12.0  | 49    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 44.785  | 10.4# | 48    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 47.463  | 5.1   | 51    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 47.179  | 5.6   | 51    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 46.996  | 6.0   | 46    | 0.00     |

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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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1061.219 | -6.1  | 51    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 37.621   | 24.8  | 39    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 232.866  | 6.9   | 47    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.749   | -1.5# | 51    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.987   | -2.0  | 51    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.642   | 2.7   | 49    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 46.317   | 7.4   | 50    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.200   | 1.6   | 51    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.508   | 5.0   | 50    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 247.060  | 1.2   | 57    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 244.286  | 2.3   | 47    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.504   | -1.0  | 53    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.502   | 1.0   | 52    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 43.217   | 13.6  | 42    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 54    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 43.544   | 12.9  | 50    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 45.207   | 9.6   | 50    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.941   | 6.1   | 53    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.242   | -0.5# | 51    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.906  | -4.9  | 52    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.649   | -5.3  | 52    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.607   | 2.8   | 52    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.711   | -3.4  | 56    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 58    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.522   | 7.0   | 52    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 43.231   | 13.5  | 49    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 39.559   | 20.9  | 52    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 40.508   | 19.0  | 56    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 43.545   | 12.9  | 52    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.508   | 5.0   | 51    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.394   | 9.2   | 53    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.792   | 0.4   | 53    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.634   | 14.7  | 48    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.650   | 6.7   | 53    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.520   | 3.0   | 52    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.413   | -2.8  | 54    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.910   | 6.2   | 50    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 44.790   | 10.4  | 52    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 43.742   | 12.5  | 54    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 42.412   | 15.2  | 54    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 44.671   | 10.7  | 48    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 41.909   | 16.2  | 52    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 44.015   | 12.0  | 55    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 43.033   | 13.9  | 56    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 44.768   | 10.5  | 52    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 39.523   | 21.0  | 53    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 46.992   | 6.0   | 52    | 0.00     |

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ALS Vial : 12 Sample Multiplier: 1

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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 | 43.884 | 12.2 | 52    | 0.00     |

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