

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122722\  
 Data File : VN075976.D  
 Acq On : 27 Dec 2022 10:01  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 28 04:42:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 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    | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.981  | 12.0   | 92    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 39.758  | 20.5   | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 41.851  | 16.3#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 40.163  | 19.7   | 84    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 42.208  | 15.6   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.305  | 9.4    | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.327  | 5.3    | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.598  | 4.8    | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.260  | 9.5    | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 219.650 | 12.1   | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.029  | 9.9#   | 93    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 342.167 | -36.9# | 140   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.533  | 8.9    | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 235.449 | 5.8    | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 296.593 | -18.6  | 132   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.426  | 19.1   | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.778  | 6.4    | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.429  | -2.9   | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.757  | 4.5    | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.213  | 7.6    | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.199  | -2.4   | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 256.636 | -2.7   | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.001  | 6.0    | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 260.524 | -4.2   | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.559  | -3.1   | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.448  | 3.1    | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.948  | 8.1    | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 238.006 | 4.8    | 95    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.874  | 4.3#   | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.032  | 15.9   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.265  | 1.5    | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.191  | -2.4   | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.689  | -5.4   | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.120  | 3.8    | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.276  | 5.4    | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.216  | -0.4   | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.961  | -3.9   | 96    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.387  | 1.2    | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.207  | -4.4   | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.032  | -0.1   | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.258  | -4.5   | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.498  | 5.0    | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.697  | 0.6#   | 99    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 50.440  | -0.9   | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.494  | -5.0   | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 52.483  | -5.0   | 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  
 QLast Update : Wed Dec 14 13:03:41 2022  
 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 | 993.785 | 0.6   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.360  | -4.7  | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 258.663 | -3.5  | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.052  | -2.1# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.200  | -12.4 | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.773  | -9.5  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.646  | -5.3  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.605  | -13.2 | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.441  | -2.9  | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 285.194 | -14.1 | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 274.779 | -9.9  | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.727  | -7.5  | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.137  | -4.3  | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.651  | -11.3 | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.199  | 1.6   | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.585  | 2.8   | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.665  | -1.3  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.397  | -2.8# | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.219 | -3.2  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.313  | -2.6  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.919  | -7.8  | 99    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.479  | -11.0 | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.015  | -0.0  | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.452  | -4.9  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.416  | 7.2   | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.125  | 11.8  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.864  | 4.3   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.380  | -4.8  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.179  | 1.6   | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.233  | -2.5  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.434  | -8.9  | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.179  | 1.6   | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.832  | -3.7  | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.641  | -3.3  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.573  | -7.1  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.183  | -10.4 | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.715  | 0.6   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.298  | 3.4   | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.931  | -11.9 | 100   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 53.406  | -6.8  | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.650  | 0.7   | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.724  | 8.6   | 96    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 54.180  | -8.4  | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 51.635  | -3.3  | 99    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 46.534  | 6.9   | 99    | 0.00     |

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ALS Vial : 2 Sample Multiplier: 1

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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 | 54.755 | -9.5 | 99    | 0.00     |

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