

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN033123\  
 Data File : VN077252.D  
 Acq On : 31 Mar 2023 15:02  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICV050

Quant Time: Apr 03 08:58:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033123W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Apr 01 00:11:10 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  | 47.754  | 4.5   | 104   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 56.042  | -12.1 | 114   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.362  | 3.3#  | 107   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 52.023  | -4.0  | 116   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.577  | 10.8  | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 38.721  | 22.6  | 85    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 50.740  | -1.5  | 105   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.025  | 4.0   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.698  | 4.6   | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 213.973 | 14.4  | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.280  | 3.4#  | 103   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 216.715 | 13.3  | 95    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.794  | 0.4   | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 218.175 | 12.7  | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 222.386 | 11.0  | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.286  | 9.4   | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.550  | 14.9  | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.025  | -0.0  | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 44.204  | 11.6  | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.011  | 4.0   | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.766  | 0.5   | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 250.595 | -0.2  | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.603  | 4.8   | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 224.602 | 10.2  | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.977  | -2.0  | 105   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.505  | 3.0   | 103   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.462  | 5.1   | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 225.596 | 9.8   | 91    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.223  | 5.6#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.567  | 6.9   | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.581  | 4.8   | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.070  | -0.1  | 118   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.240  | -0.5  | 118   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.415  | -0.8  | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.473  | 7.1   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.979  | 0.0   | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.050  | -6.1  | 103   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.547  | 2.9   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.820  | 4.4   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.537  | 4.9   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.184  | 3.6   | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.210  | 1.6   | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.437  | 3.1#  | 100   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 46.922  | 6.2   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 50.299  | -0.6  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.279  | -0.6  | 96    | 0.00     |

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 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

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 MSVOA\_N  
 ClientSampleId :  
 VSTDICV050

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 QLast Update : Sat Apr 01 00:11:10 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 | 965.885 | 3.4   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.815  | -5.6  | 116   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 232.953 | 6.8   | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.902  | 0.2#  | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.338  | -8.7  | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.633  | -5.3  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.347  | 5.3   | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.223  | -4.4  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.076  | 3.8   | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 263.185 | -5.3  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 235.966 | 5.6   | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.793  | 0.4   | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.709  | 2.6   | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.533  | -11.1 | 116   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.650  | 0.7   | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.665  | 0.7   | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.648  | 0.7   | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.827  | -5.7# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.737 | -5.7  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.758  | -7.5  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.280  | -10.6 | 98    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.999  | 0.0   | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.379  | 3.2   | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.446  | 5.1   | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 40.803  | 18.4  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.316  | 1.4   | 112   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 45.037  | 9.9   | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.382  | -2.8  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.346  | 5.3   | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.294  | -0.6  | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.375  | 15.3  | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.684  | 2.6   | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.119  | 1.8   | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.703  | -3.4  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.763  | -3.5  | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.415  | -8.8  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.623  | 2.8   | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.320  | 3.4   | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 57.106  | -14.2 | 104   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 46.590  | 6.8   | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 48.944  | 2.1   | 101   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.540  | 8.9   | 95    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 54.899  | -9.8  | 114   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 51.917  | -3.8  | 107   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 49.036  | 1.9   | 101   | 0.00     |

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VSTDICV050

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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 | 53.202 | -6.4 | 111   | 0.00     |

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