

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021623\  
 Data File : VN076700.D  
 Acq On : 16 Feb 2023 10:20  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 17 00:04:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021323W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 14 01:44:47 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.531 | 0.483 | 9.0   | 75    | 0.00     |
| 3 P   | Chloromethane               | 0.693 | 0.608 | 12.3  | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.682 | 0.632 | 7.3#  | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.413 | 0.395 | 4.4   | 95    | 0.00     |
| 6 T   | Chloroethane                | 0.431 | 0.457 | -6.0  | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.928 | 0.829 | 10.7  | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 0.357 | 0.344 | 3.6   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.545 | 0.502 | 7.9   | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 0.673 | 0.685 | -1.8  | 78    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.091 | 0.089 | 2.2   | 87    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.516 | 0.465 | 9.9#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.137 | 0.130 | 5.1   | 84    | 0.00     |
| 14 T  | Allyl chloride              | 0.894 | 0.852 | 4.7   | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 0.323 | 0.328 | -1.5  | 90    | 0.00     |
| 16 T  | Acetone                     | 0.308 | 0.291 | 5.5   | 94    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.363 | 1.219 | 10.6  | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 1.007 | 1.001 | 0.6   | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.740 | 1.754 | -0.8  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.646 | 0.595 | 7.9   | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.581 | 0.531 | 8.6   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.097 | 2.232 | -6.4  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.241 | 1.474 | -18.8 | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.149 | 1.121 | 2.4   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 0.455 | 0.463 | -1.8  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.829 | 0.814 | 1.8   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.689 | 0.654 | 5.1   | 85    | 0.00     |
| 28 T  | Bromochloromethane          | 0.547 | 0.653 | -19.4 | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.297 | 0.310 | -4.4  | 90    | 0.00     |
| 30 C  | Chloroform                  | 1.148 | 1.126 | 1.9#  | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 1.083 | 1.014 | 6.4   | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.966 | 0.934 | 3.3   | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.690 | 0.756 | -9.6  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.327 | 0.329 | -0.6  | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.473 | 0.461 | 2.5   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.498 | 0.502 | -0.8  | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.477 | 0.447 | 6.3   | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.538 | 0.547 | -1.7  | 87    | 0.00     |
| 40 TM | Benzene                     | 1.453 | 1.420 | 2.3   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.288 | 0.294 | -2.1  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.507 | 0.489 | 3.6   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.810 | 0.839 | -3.6  | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.343 | 0.321 | 6.4   | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.385 | 0.376 | 2.3#  | 89    | 0.00     |
| 46 T  | Dibromomethane              | 0.246 | 0.244 | 0.8   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.493 | 0.492 | 0.2   | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.384 | 0.393 | -2.3  | 90    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.007 | 0.0   | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 1.223 | 1.306 | -6.8  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.515 | 0.545 | -5.8  | 93    | 0.00     |
| 52 CM | Toluene                     | 0.877 | 0.918 | -4.7# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.476 | 0.511 | -7.4  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.549 | 0.565 | -2.9  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.357 | 0.362 | -1.4  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.502 | 0.543 | -8.2  | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.613 | 0.626 | -2.1  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.230 | 0.243 | -5.7  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.372 | 0.392 | -5.4  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.376 | 0.376 | 0.0   | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.357 | 0.353 | 1.1   | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.405 | 0.461 | -13.8 | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.315 | 0.288 | 8.6   | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 1.060 | 1.018 | 4.0   | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.381 | 1.0   | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.805 | 1.839 | -1.9# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.696 | 0.721 | -3.6  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.706 | -4.0  | 92    | 0.00     |
| 70 T  | Styrene                     | 1.097 | 1.188 | -8.3  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.282 | 0.283 | -0.4  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.665 | 3.624 | 1.1   | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.652 | 1.592 | 3.6   | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.327 | 1.161 | 12.5  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.011 | 0.980 | 3.1   | 98    | 0.00     |
| 77 T  | Bromobenzene                | 0.914 | 0.839 | 8.2   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 4.303 | 4.294 | 0.2   | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.635 | 2.520 | 4.4   | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.029 | 3.085 | -1.8  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.347 | 0.339 | 2.3   | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.635 | 2.520 | 4.4   | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.740 | 2.674 | 2.4   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.019 | 3.043 | -0.8  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.825 | 3.955 | -3.4  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.055 | 3.260 | -6.7  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.728 | 1.636 | 5.3   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.721 | 1.629 | 5.3   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.657 | 2.855 | -7.5  | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 0.640 | 0.588 | 8.1   | 92    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.772 | 1.648 | 7.0   | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.257 | 0.212 | 17.5  | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.884 | 0.876 | 0.9   | 88    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.433 | 0.406 | 6.2   | 90    | 0.00     |
| 95 T  | Naphthalene                 | 2.682 | 2.804 | -4.5  | 88    | 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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.856 | 0.860 | -0.5 | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6