

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032824\  
 Data File : VN081595.D  
 Acq On : 28 Mar 2024 10:11  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 29 02:42:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031824W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 06:00:00 2024  
 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    | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.673 | 0.608 | 9.7    | 78    | 0.00     |
| 3 P   | Chloromethane               | 0.670 | 0.617 | 7.9    | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.752 | 0.725 | 3.6#   | 85    | 0.00     |
| 5 T   | Bromomethane                | 0.532 | 0.515 | 3.2    | 85    | 0.00     |
| 6 T   | Chloroethane                | 0.517 | 0.535 | -3.5   | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.121 | 1.142 | -1.9   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.371 | 0.384 | -3.5   | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.637 | 0.667 | -4.7   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.634 | 0.701 | -10.6  | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.111 | 0.113 | -1.8   | 83    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.590 | 0.593 | -0.5#  | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.100 | 0.089 | 11.0   | 67    | 0.00     |
| 14 T  | Allyl chloride              | 0.739 | 0.736 | 0.4    | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 0.297 | 0.291 | 2.0    | 83    | 0.00     |
| 16 T  | Acetone                     | 0.206 | 0.186 | 9.7    | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.693 | 1.476 | 12.8   | 77    | 0.00     |
| 18 T  | Methyl Acetate              | 0.635 | 0.708 | -11.5  | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.847 | 2.034 | -10.1  | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 0.675 | 0.696 | -3.1   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.658 | 0.673 | -2.3   | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.718 | 1.956 | -13.9  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.368 | 1.450 | -6.0   | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.151 | 1.219 | -5.9   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.353 | 0.341 | 3.4    | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.998 | 1.136 | -13.8  | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.744 | 0.815 | -9.5   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.469 | 0.443 | 5.5    | 80    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.238 | 0.235 | 1.3    | 80    | 0.00     |
| 30 C  | Chloroform                  | 1.232 | 1.381 | -12.1# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 1.038 | 0.971 | 6.5    | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.118 | 1.224 | -9.5   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.638 | 0.654 | -2.5   | 83    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.316 | 0.348 | -10.1  | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.531 | 0.569 | -7.2   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.455 | 0.451 | 0.9    | 81    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.582 | 0.625 | -7.4   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.593 | 0.637 | -7.4   | 83    | 0.00     |
| 40 TM | Benzene                     | 1.553 | 1.736 | -11.8  | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.240 | 0.251 | -4.6   | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.546 | 0.588 | -7.7   | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.754 | 0.798 | -5.8   | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.437 | 0.474 | -8.5   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.376 | 0.439 | -16.8# | 95    | 0.00     |
| 46 T  | Dibromomethane              | 0.286 | 0.321 | -12.2  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.559 | 0.657 | -17.5  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.348 | 0.360 | -3.4   | 82    | 0.00     |

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 Sample : VSTDCCC050  
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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 29 02:42:18 2024  
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 Quant Title : SW846 8260  
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 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.008 | 0.0    | 73    | 0.00     |
| 50 S  | Toluene-d8                  | 1.141 | 1.203 | -5.4   | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.460 | 0.472 | -2.6   | 81    | 0.00     |
| 52 CM | Toluene                     | 0.987 | 1.114 | -12.9# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.603 | 0.681 | -12.9  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.647 | 0.731 | -13.0  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.397 | 0.451 | -13.6  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.529 | 0.600 | -13.4  | 85    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.651 | 0.733 | -12.6  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.250 | 0.289 | -15.6  | 78    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.340 | 0.338 | 0.6    | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.437 | 0.495 | -13.3  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.405 | 0.449 | -10.9  | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.402 | 0.424 | -5.5   | 81    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.478 | 0.534 | -11.7  | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 1.182 | 1.299 | -9.9   | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.438 | 0.515 | -17.6  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.053 | 2.316 | -12.8# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.770 | 0.910 | -18.2  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.756 | 0.872 | -15.3  | 90    | 0.00     |
| 70 T  | Styrene                     | 1.219 | 1.480 | -21.4  | 91    | 0.00     |
| 71 P  | Bromoform                   | 0.329 | 0.364 | -10.6  | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.262 | 4.507 | -5.7   | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 1.542 | 1.467 | 4.9    | 77    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.253 | 1.184 | 5.5    | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.196 | 1.097 | 8.3    | 83    | 0.00     |
| 77 T  | Bromobenzene                | 1.053 | 1.055 | -0.2   | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 5.033 | 5.398 | -7.3   | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.012 | 3.120 | -3.6   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.520 | 3.830 | -8.8   | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.443 | 0.451 | -1.8   | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.970 | 3.143 | -5.8   | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.036 | 3.183 | -4.8   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.538 | 3.864 | -9.2   | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.340 | 4.715 | -8.6   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.547 | 3.924 | -10.6  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.934 | 2.052 | -6.1   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 2.003 | 2.068 | -3.2   | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.146 | 3.437 | -9.2   | 88    | 0.00     |
| 90 T  | Hexachloroethane            | 0.672 | 0.714 | -6.2   | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.862 | 2.024 | -8.7   | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.267 | 0.252 | 5.6    | 83    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.077 | 1.163 | -8.0   | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.472 | 0.473 | -0.2   | 89    | 0.00     |
| 95 T  | Naphthalene                 | 3.488 | 3.817 | -9.4   | 89    | 0.00     |

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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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.083 | 1.186 | -9.5 | 95    | 0.00     |

(#) = Out of Range

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