

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN063020\  
 Data File : VN062280.D  
 Acq On : 1 Jul 2020 8:44  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 01 10:00:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 24 15:33:00 2020  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 77    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.565 | 0.513 | 9.2    | 74    | 0.00     |
| 3 P   | Chloromethane               | 0.744 | 0.704 | 5.4    | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.890 | 0.841 | 5.5#   | 78    | 0.00     |
| 5 T   | Bromomethane                | 0.575 | 0.501 | 12.9   | 72    | 0.00     |
| 6 T   | Chloroethane                | 0.608 | 0.582 | 4.3    | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.097 | 1.013 | 7.7    | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 0.383 | 0.418 | -9.1   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.574 | 0.550 | 4.2    | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 0.647 | 0.682 | -5.4   | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.101 | 0.121 | -19.8  | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.574 | 0.585 | -1.9#  | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.099 | 0.116 | -17.2  | 92    | 0.00     |
| 14 T  | Allyl chloride              | 0.782 | 0.854 | -9.2   | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 0.275 | 0.337 | -22.5  | 98    | 0.00     |
| 16 T  | Acetone                     | 0.251 | 0.264 | -5.2   | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.833 | 1.609 | 12.2   | 77    | 0.00     |
| 18 T  | Methyl Acetate              | 0.558 | 0.695 | -24.6  | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.835 | 2.081 | -13.4  | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.708 | 0.729 | -3.0   | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.654 | 0.640 | 2.1    | 81    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.780 | 2.090 | -17.4  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.453 | 1.741 | -19.8  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.146 | 1.245 | -8.6   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 0.343 | 0.422 | -23.0  | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.955 | 0.646 | 32.4#  | 55    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.736 | 0.758 | -3.0   | 85    | 0.00     |
| 28 T  | Bromochloromethane          | 0.497 | 0.556 | -11.9  | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.225 | 0.284 | -26.2# | 98    | 0.00     |
| 30 C  | Chloroform                  | 1.166 | 1.246 | -6.9#  | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 0.969 | 1.004 | -3.6   | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.983 | 1.024 | -4.2   | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.702 | 0.784 | -11.7  | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.321 | 0.307 | 4.4    | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.503 | 0.473 | 6.0    | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.416 | 0.459 | -10.3  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.474 | 0.431 | 9.1    | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.551 | 0.515 | 6.5    | 83    | 0.00     |
| 40 TM | Benzene                     | 1.532 | 1.464 | 4.4    | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.193 | 0.198 | -2.6   | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.518 | 0.510 | 1.5    | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.678 | 0.742 | -9.4   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.386 | 0.339 | 12.2   | 81    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.378 | 0.388 | -2.6#  | 93    | 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.256 | 0.250 | 2.3   | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.517 | 0.522 | -1.0  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.304 | 0.345 | -13.5 | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.007 | 0.0   | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 1.282 | 1.237 | 3.5   | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.396 | 0.465 | -17.4 | 99    | 0.00     |
| 52 CM | Toluene                     | 0.935 | 0.914 | 2.2#  | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.569 | 0.547 | 3.9   | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.606 | 0.587 | 3.1   | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.367 | 0.376 | -2.5  | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.490 | 0.551 | -12.4 | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.632 | 0.643 | -1.7  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.184 | 0.220 | -19.6 | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.286 | 0.345 | -20.6 | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.389 | 0.380 | 2.3   | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.378 | 0.370 | 2.1   | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.433 | 0.421 | 2.8   | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.342 | 0.286 | 16.4  | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 1.098 | 1.039 | 5.4   | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.375 | 1.3   | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.854 | 1.883 | -1.6# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.717 | 0.708 | 1.3   | 82    | 0.00     |
| 69 T  | o-Xylene                    | 0.677 | 0.689 | -1.8  | 84    | 0.00     |
| 70 T  | Styrene                     | 1.129 | 1.176 | -4.2  | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.270 | 0.269 | 0.4   | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.870 | 3.815 | 1.4   | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 1.265 | 1.548 | -22.4 | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.288 | 1.324 | -2.8  | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.177 | 1.101 | 6.5   | 83    | 0.00     |
| 77 T  | Bromobenzene                | 0.961 | 0.871 | 9.4   | 80    | 0.00     |
| 78 T  | n-propylbenzene             | 4.427 | 4.465 | -0.9  | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.676 | 2.681 | -0.2  | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.138 | 3.225 | -2.8  | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.403 | 0.387 | 4.0   | 81    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.768 | 2.777 | -0.3  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.685 | 2.648 | 1.4   | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.134 | 3.254 | -3.8  | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.548 | 3.725 | -5.0  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.109 | 3.200 | -2.9  | 84    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.687 | 1.618 | 4.1   | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.739 | 1.601 | 7.9   | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.584 | 2.667 | -3.2  | 84    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.610 | 0.622 | -2.0  | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.636 | 1.574 | 3.8   | 83    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.206 | 0.231 | -12.1 | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.715 | 0.667 | 6.7   | 76    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.310 | 0.290 | 6.5   | 82    | 0.00     |
| 95 T | Naphthalene                 | 2.084 | 2.062 | 1.1   | 79    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.731 | 0.702 | 4.0   | 78    | 0.00     |

(#) = Out of Range

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