

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062520\  
 Data File : VN062126.D  
 Acq On : 25 Jun 2020 21:18  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 26 04:22:56 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   | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.565 | 0.504 | 10.8  | 89    | 0.00     |
| 3 P   | Chloromethane               | 0.744 | 0.625 | 16.0  | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.890 | 0.790 | 11.2# | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.575 | 0.528 | 8.2   | 93    | 0.00     |
| 6 T   | Chloroethane                | 0.608 | 0.546 | 10.2  | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.097 | 1.004 | 8.5   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 0.383 | 0.368 | 3.9   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.574 | 0.517 | 9.9   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 0.647 | 0.671 | -3.7  | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.101 | 0.094 | 6.9   | 92    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.574 | 0.535 | 6.8#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.099 | 0.068 | 31.3# | 66    | 0.00     |
| 14 T  | Allyl chloride              | 0.782 | 0.658 | 15.9  | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 0.275 | 0.255 | 7.3   | 90    | 0.00     |
| 16 T  | Acetone                     | 0.251 | 0.196 | 21.9  | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.833 | 1.437 | 21.6  | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.558 | 0.517 | 7.3   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.835 | 1.792 | 2.3   | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.708 | 0.616 | 13.0  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.654 | 0.594 | 9.2   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.780 | 1.623 | 8.8   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.453 | 1.337 | 8.0   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.146 | 1.024 | 10.6  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.343 | 0.310 | 9.6   | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.955 | 0.799 | 16.3  | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.736 | 0.679 | 7.7   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.497 | 0.434 | 12.7  | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.225 | 0.212 | 5.8   | 90    | 0.00     |
| 30 C  | Chloroform                  | 1.166 | 1.056 | 9.4#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 0.969 | 0.845 | 12.8  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.983 | 0.925 | 5.9   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.702 | 0.665 | 5.3   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.321 | 0.324 | -0.9  | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.503 | 0.449 | 10.7  | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.416 | 0.375 | 9.9   | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.474 | 0.450 | 5.1   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.551 | 0.510 | 7.4   | 90    | 0.00     |
| 40 TM | Benzene                     | 1.532 | 1.379 | 10.0  | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.193 | 0.184 | 4.7   | 98    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.518 | 0.462 | 10.8  | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.678 | 0.639 | 5.8   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.386 | 0.372 | 3.6   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.378 | 0.351 | 7.1#  | 92    | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.256 | 0.235 | 8.2  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.517 | 0.487 | 5.8  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.304 | 0.288 | 5.3  | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.007 | 0.0  | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 1.282 | 1.264 | 1.4  | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.396 | 0.383 | 3.3  | 90    | 0.00     |
| 52 CM | Toluene                     | 0.935 | 0.892 | 4.6# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.569 | 0.531 | 6.7  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.606 | 0.581 | 4.1  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.367 | 0.355 | 3.3  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.490 | 0.504 | -2.9 | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.632 | 0.596 | 5.7  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.184 | 0.195 | -6.0 | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.286 | 0.282 | 1.4  | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.389 | 0.383 | 1.5  | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.378 | 0.367 | 2.9  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.433 | 0.431 | 0.5  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.342 | 0.327 | 4.4  | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 1.098 | 1.049 | 4.5  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.380 | 0.0  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.854 | 1.846 | 0.4# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.717 | 0.720 | -0.4 | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.677 | 0.695 | -2.7 | 92    | 0.00     |
| 70 T  | Styrene                     | 1.129 | 1.165 | -3.2 | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.270 | 0.282 | -4.4 | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.870 | 3.714 | 4.0  | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 1.265 | 1.227 | 3.0  | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.288 | 1.154 | 10.4 | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.177 | 0.958 | 18.6 | 81    | 0.00     |
| 77 T  | Bromobenzene                | 0.961 | 0.907 | 5.6  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 4.427 | 4.208 | 4.9  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.676 | 2.467 | 7.8  | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.138 | 3.088 | 1.6  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.403 | 0.373 | 7.4  | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.768 | 2.563 | 7.4  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.685 | 2.625 | 2.2  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.134 | 3.089 | 1.4  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.548 | 3.451 | 2.7  | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.109 | 3.066 | 1.4  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.687 | 1.623 | 3.8  | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.739 | 1.603 | 7.8  | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.584 | 2.498 | 3.3  | 88    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.610 | 0.574 | 5.9  | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.636 | 1.589 | 2.9  | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.206 | 0.200 | 2.9  | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.715 | 0.735 | -2.8 | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.310 | 0.290 | 6.5  | 92    | 0.00     |
| 95 T | Naphthalene                 | 2.084 | 2.155 | -3.4 | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.731 | 0.741 | -1.4 | 92    | 0.00     |

(#) = Out of Range

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