

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\  
 Data File : VN055089.D  
 Acq On : 16 Apr 2019 19:57  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 17 03:31:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 15 12:28:28 2019  
 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.568 | 0.544 | 4.2   | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.741 | 0.712 | 3.9   | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.623 | 0.588 | 5.6#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.352 | 0.327 | 7.1   | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.336 | 0.331 | 1.5   | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.779 | 0.752 | 3.5   | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.249 | 0.240 | 3.6   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.408 | 0.386 | 5.4   | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 0.633 | 0.738 | -16.6 | 121   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.036 | 0.038 | -5.6  | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.397 | 0.369 | 7.1#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.045 | 0.048 | -6.7  | 113   | 0.00     |
| 14 T  | Allyl chloride              | 0.971 | 0.945 | 2.7   | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.218 | 0.217 | 0.5   | 93    | 0.00     |
| 16 T  | Acetone                     | 0.180 | 0.147 | 18.3  | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.281 | 1.164 | 9.1   | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.579 | 0.526 | 9.2   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.420 | 1.435 | -1.1  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.634 | 0.591 | 6.8   | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.537 | 0.520 | 3.2   | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.997 | 2.053 | -2.8  | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.320 | 1.427 | -8.1  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.063 | 1.066 | -0.3  | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 0.269 | 0.264 | 1.9   | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.671 | 0.678 | -1.0  | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.607 | 0.612 | -0.8  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.513 | 0.499 | 2.7   | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.177 | 0.176 | 0.6   | 92    | 0.00     |
| 30 C  | Chloroform                  | 1.033 | 1.020 | 1.3#  | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 1.158 | 0.966 | 16.6  | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.818 | 0.841 | -2.8  | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.665 | 0.650 | 2.3   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.334 | 0.319 | 4.5   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.471 | 0.445 | 5.5   | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.384 | 0.343 | 10.7  | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.448 | 0.421 | 6.0   | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.511 | 0.485 | 5.1   | 96    | 0.00     |
| 40 TM | Benzene                     | 1.421 | 1.377 | 3.1   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.213 | 0.196 | 8.0   | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.493 | 0.474 | 3.9   | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.591 | 0.594 | -0.5  | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.356 | 0.349 | 2.0   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.396 | 0.394 | 0.5#  | 101   | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.226 | 0.219 | 3.1  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.465 | 0.460 | 1.1  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.293 | 0.297 | -1.4 | 97    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0  | 109   | 0.00     |
| 50 S  | Toluene-d8                  | 1.196 | 1.184 | 1.0  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.342 | 0.339 | 0.9  | 93    | 0.00     |
| 52 CM | Toluene                     | 0.814 | 0.811 | 0.4# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.406 | 0.438 | -7.9 | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.504 | 0.533 | -5.8 | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.313 | 0.304 | 2.9  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.376 | 0.412 | -9.6 | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.534 | 0.542 | -1.5 | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.139 | 0.151 | -8.6 | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.215 | 0.209 | 2.8  | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.306 | 0.319 | -4.2 | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.289 | 0.294 | -1.7 | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.389 | 0.400 | -2.8 | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.407 | 0.372 | 8.6  | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.006 | 0.975 | 3.1  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.363 | 1.9  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.797 | 1.764 | 1.8# | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.651 | 0.649 | 0.3  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.630 | 0.639 | -1.4 | 98    | 0.00     |
| 70 T  | Styrene                     | 1.020 | 1.072 | -5.1 | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.212 | 0.224 | -5.7 | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.437 | 3.938 | 11.2 | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 1.249 | 1.257 | -0.6 | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.187 | 1.011 | 14.8 | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.899 | 0.806 | 10.3 | 98    | 0.00     |
| 77 T  | Bromobenzene                | 1.106 | 0.983 | 11.1 | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.794 | 4.342 | 9.4  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.990 | 2.694 | 9.9  | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.581 | 3.241 | 9.5  | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.225 | 0.225 | 0.0  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.790 | 2.591 | 7.1  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.024 | 2.766 | 8.5  | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.393 | 3.168 | 6.6  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.853 | 3.515 | 8.8  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.306 | 3.097 | 6.3  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.681 | 1.599 | 4.9  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.603 | 1.559 | 2.7  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.454 | 2.523 | -2.8 | 99    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.538 | 0.497 | 7.6   | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.692 | 1.579 | 6.7   | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.146 | 0.138 | 5.5   | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.644 | 0.725 | -12.6 | 98    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.522 | 0.499 | 4.4   | 102   | 0.00     |
| 95 T | Naphthalene                 | 1.432 | 1.579 | -10.3 | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.653 | 0.729 | -11.6 | 99    | 0.00     |

(#) = Out of Range

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