

Data File : VW002857.D  
 Acq On : 24 May 2018 21:29  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 25 08:55:39 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 15 03:32:11 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.193 | 0.241 | -24.9# | 102   | 0.00     |
| 3 P   | Chloromethane               | 0.369 | 0.412 | -11.7  | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.579 | 0.629 | -8.6#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 0.475 | 0.492 | -3.6   | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.398 | 0.418 | -5.0   | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.255 | 0.181 | 29.0#  | 55    | -0.01    |
| 8 T   | Diethyl Ether               | 0.305 | 0.376 | -23.3# | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.422 | 0.480 | -13.7  | 91    | -0.01    |
| 10 T  | Methyl Iodide               | 0.673 | 0.671 | 0.3    | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.040 | 0.043 | -7.5   | 86    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.418 | 0.446 | -6.7#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.039 | 0.070 | -79.5# | 144   | 0.00     |
| 14 T  | Allyl chloride              | 0.621 | 0.544 | 12.4   | 71    | 0.00     |
| 15 T  | Acrylonitrile               | 0.110 | 0.132 | -20.0# | 94    | 0.00     |
| 16 T  | Acetone                     | 0.109 | 0.112 | -2.8   | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.151 | 1.135 | 1.4    | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 0.318 | 0.431 | -35.5# | 108   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.768 | 0.912 | -18.8  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.483 | 0.500 | -3.5   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.452 | 0.492 | -8.8   | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.375 | 1.587 | -15.4  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.833 | 1.003 | -20.4# | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.829 | 0.945 | -14.0  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.154 | 0.198 | -28.6# | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.464 | 0.415 | 10.6   | 75    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.516 | 0.573 | -11.0  | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.370 | 0.441 | -19.2  | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.096 | 0.128 | -33.3# | 102   | 0.00     |
| 30 C  | Chloroform                  | 0.885 | 1.027 | -16.0# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 0.734 | 0.713 | 2.9    | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.667 | 0.717 | -7.5   | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.517 | 0.611 | -18.2  | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.317 | 0.358 | -12.9  | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.441 | 0.479 | -8.6   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.219 | 0.278 | -26.9# | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.432 | 0.473 | -9.5   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.505 | 0.534 | -5.7   | 86    | 0.00     |
| 40 TM | Benzene                     | 1.267 | 1.420 | -12.1  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.122 | 0.161 | -32.0# | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.402 | 0.482 | -19.9  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.421 | 0.526 | -24.9# | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.347 | 0.385 | -11.0  | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.323 | 0.372 | -15.2# | 95    | 0.00     |

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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 : 20% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.184 | 0.221 | -20.1# | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.428 | 0.516 | -20.6# | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.204 | 0.275 | -34.8# | 107   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.004 | -33.3# | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 1.207 | 1.337 | -10.8  | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.231 | 0.304 | -31.6# | 103   | 0.00     |
| 52 CM | Toluene                     | 0.801 | 0.910 | -13.6# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.433 | 0.500 | -15.5  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.483 | 0.561 | -16.1  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.259 | 0.314 | -21.2# | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.315 | 0.395 | -25.4# | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.429 | 0.523 | -21.9# | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.155 | 0.193 | -24.5# | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.160 | 0.215 | -34.4# | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.305 | 0.373 | -22.3# | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.250 | 0.305 | -22.0# | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.441 | 0.499 | -13.2  | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.352 | 0.411 | -16.8  | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 0.996 | 1.091 | -9.5   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.356 | 0.403 | -13.2  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.693 | 1.870 | -10.5# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.658 | 0.724 | -10.0  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.625 | 0.688 | -10.1  | 92    | 0.00     |
| 70 T  | Styrene                     | 1.041 | 1.180 | -13.4  | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.209 | 0.257 | -23.0# | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.082 | 3.405 | -10.5  | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 0.785 | 0.972 | -23.8# | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.624 | 0.752 | -20.5# | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.473 | 0.560 | -18.4  | 98    | 0.00     |
| 77 T  | Bromobenzene                | 0.786 | 0.886 | -12.7  | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 3.722 | 4.141 | -11.3  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.114 | 2.373 | -12.3  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.630 | 2.931 | -11.4  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.173 | 0.209 | -20.8# | 97    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.286 | 2.536 | -10.9  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.271 | 2.557 | -12.6  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.730 | 3.056 | -11.9  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.264 | 3.608 | -10.5  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.936 | 3.243 | -10.5  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.591 | 1.762 | -10.7  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.582 | 1.755 | -10.9  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.777 | 3.072 | -10.6  | 90    | 0.00     |

Data Path : W:\HPCHEM1\MSVOA\_W\DATA\VW052518\  
Evaluate Continuing Calibration Report

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.526 | 0.603 | -14.6  | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.443 | 1.638 | -13.5  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.110 | 0.134 | -21.8# | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.051 | 1.161 | -10.5  | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.585 | 0.644 | -10.1  | 92    | 0.00     |
| 95 T | Naphthalene                 | 1.910 | 2.372 | -24.2# | 97    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.940 | 1.077 | -14.6  | 96    | 0.00     |

(#) = Out of Range

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