

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW051518\  
 Data File : VW002566.D  
 Acq On : 15 May 2018 23:16  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 16 07:23:44 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.193 | 0.204 | -5.7   | 96    | 0.00     |
| 3 P   | Chloromethane               | 0.369 | 0.388 | -5.1   | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.579 | 0.635 | -9.7#  | 102   | 0.00     |
| 5 T   | Bromomethane                | 0.475 | 0.492 | -3.6   | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.398 | 0.420 | -5.5   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.255 | 0.220 | 13.7   | 74    | 0.00     |
| 8 T   | Diethyl Ether               | 0.305 | 0.378 | -23.9# | 114   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.422 | 0.435 | -3.1   | 91    | -0.01    |
| 10 T  | Methyl Iodide               | 0.673 | 0.700 | -4.0   | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.040 | 0.041 | -2.5   | 90    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.418 | 0.431 | -3.1#  | 95    | 0.00     |
| 13 T  | Acrolein                    | 0.039 | 0.042 | -7.7   | 95    | 0.00     |
| 14 T  | Allyl chloride              | 0.621 | 0.569 | 8.4    | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 0.110 | 0.124 | -12.7  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.109 | 0.105 | 3.7    | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.151 | 1.127 | 2.1    | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.318 | 0.371 | -16.7  | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.768 | 0.880 | -14.6  | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 0.483 | 0.474 | 1.9    | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.452 | 0.468 | -3.5   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.375 | 1.466 | -6.6   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.833 | 0.911 | -9.4   | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.829 | 0.874 | -5.4   | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 0.154 | 0.174 | -13.0  | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.464 | 0.405 | 12.7   | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.516 | 0.544 | -5.4   | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.370 | 0.391 | -5.7   | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.096 | 0.112 | -16.7  | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.885 | 0.943 | -6.6#  | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.734 | 0.689 | 6.1    | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.667 | 0.681 | -2.1   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.517 | 0.562 | -8.7   | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.317 | 0.331 | -4.4   | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.441 | 0.452 | -2.5   | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.219 | 0.247 | -12.8  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.432 | 0.441 | -2.1   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.505 | 0.509 | -0.8   | 89    | 0.00     |
| 40 TM | Benzene                     | 1.267 | 1.319 | -4.1   | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.122 | 0.138 | -13.1  | 99    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.402 | 0.439 | -9.2   | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.421 | 0.469 | -11.4  | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.347 | 0.361 | -4.0   | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.323 | 0.344 | -6.5#  | 97    | 0.00     |

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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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.184 | 0.199 | -8.2   | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.428 | 0.470 | -9.8   | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.204 | 0.247 | -21.1# | 105   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.004 | -33.3# | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 1.207 | 1.264 | -4.7   | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.231 | 0.267 | -15.6  | 99    | 0.00     |
| 52 CM | Toluene                     | 0.801 | 0.849 | -6.0#  | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.433 | 0.471 | -8.8   | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.483 | 0.521 | -7.9   | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.259 | 0.286 | -10.4  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.315 | 0.373 | -18.4  | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.429 | 0.475 | -10.7  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.155 | 0.167 | -7.7   | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.160 | 0.189 | -18.1  | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.305 | 0.340 | -11.5  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.250 | 0.279 | -11.6  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.441 | 0.463 | -5.0   | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.352 | 0.404 | -14.8  | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 0.996 | 1.056 | -6.0   | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.356 | 0.383 | -7.6   | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.693 | 1.802 | -6.4#  | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.658 | 0.702 | -6.7   | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.625 | 0.675 | -8.0   | 97    | 0.00     |
| 70 T  | Styrene                     | 1.041 | 1.140 | -9.5   | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.209 | 0.238 | -13.9  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.082 | 3.243 | -5.2   | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 0.785 | 0.895 | -14.0  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.624 | 0.681 | -9.1   | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.473 | 0.502 | -6.1   | 95    | 0.00     |
| 77 T  | Bromobenzene                | 0.786 | 0.842 | -7.1   | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 3.722 | 3.937 | -5.8   | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.114 | 2.240 | -6.0   | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.630 | 2.801 | -6.5   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.173 | 0.188 | -8.7   | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.286 | 2.423 | -6.0   | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.271 | 2.435 | -7.2   | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.730 | 2.935 | -7.5   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.264 | 3.459 | -6.0   | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.936 | 3.156 | -7.5   | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.591 | 1.675 | -5.3   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.582 | 1.675 | -5.9   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.777 | 2.969 | -6.9   | 95    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.526 | 0.568 | -8.0  | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.443 | 1.543 | -6.9  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.110 | 0.126 | -14.5 | 101   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.051 | 1.128 | -7.3  | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.585 | 0.612 | -4.6  | 95    | 0.00     |
| 95 T | Naphthalene                 | 1.910 | 2.213 | -15.9 | 98    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.940 | 1.015 | -8.0  | 98    | 0.00     |

(#) = Out of Range

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