

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW052019\  
 Data File : VW010475.D  
 Acq On : 21 May 2019 05:00  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 21 07:35:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 21 06:38:43 2019  
 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     | 0.468 | 0.381 | 18.6   | 72    | 0.00     |
| 3 P   | Chloromethane               | 0.525 | 0.482 | 8.2    | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.609 | 0.514 | 15.6#  | 73    | 0.00     |
| 5 T   | Bromomethane                | 0.419 | 0.417 | 0.5    | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.391 | 0.378 | 3.3    | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.898 | 0.834 | 7.1    | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 0.285 | 0.344 | -20.7# | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.553 | 0.510 | 7.8    | 81    | -0.01    |
| 10 T  | Methyl Iodide               | 0.632 | 0.624 | 1.3    | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.046 | 0.058 | -26.1# | 118   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.528 | 0.506 | 4.2#   | 84    | -0.01    |
| 13 T  | Acrolein                    | 0.032 | 0.024 | 25.0#  | 92    | 0.00     |
| 14 T  | Allyl chloride              | 0.764 | 0.798 | -4.5   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.119 | 0.143 | -20.2# | 107   | 0.00     |
| 16 T  | Acetone                     | 0.105 | 0.111 | -5.7   | 90    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.575 | 1.509 | 4.2    | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 0.258 | 0.350 | -35.7# | 131   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.346 | 1.645 | -22.2# | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 0.751 | 0.637 | 15.2   | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.606 | 0.644 | -6.3   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.568 | 1.810 | -15.4  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.936 | 1.041 | -11.2  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.935 | 1.046 | -11.9  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.151 | 0.178 | -17.9  | 106   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.891 | 0.747 | 16.2   | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.659 | 0.757 | -14.9  | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 0.335 | 0.426 | -27.2# | 109   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.102 | 0.123 | -20.6# | 110   | 0.00     |
| 30 C  | Chloroform                  | 1.009 | 1.154 | -14.4# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 0.980 | 0.839 | 14.4   | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.964 | 0.998 | -3.5   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.516 | 0.623 | -20.7# | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.303 | 0.325 | -7.3   | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.466 | 0.420 | 9.9    | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.198 | 0.215 | -8.6   | 107   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.502 | 0.450 | 10.4   | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.624 | 0.519 | 16.8   | 80    | 0.00     |
| 40 TM | Benzene                     | 1.295 | 1.304 | -0.7   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.118 | 0.128 | -8.5   | 113   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.370 | 0.402 | -8.6   | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.396 | 0.430 | -8.6   | 108   | 0.00     |
| 44 TM | Trichloroethene             | 0.384 | 0.375 | 2.3    | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.307 | 0.319 | -3.9#  | 100   | 0.00     |

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 Quant Title : SW846 8260  
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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              | 0.180 | 0.197 | -9.4  | 106   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.452 | 0.479 | -6.0  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.181 | 0.192 | -6.1  | 104   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 111   | 0.00     |
| 50 S  | Toluene-d8                  | 1.159 | 1.170 | -0.9  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.201 | 0.216 | -7.5  | 106   | 0.00     |
| 52 CM | Toluene                     | 0.869 | 0.860 | 1.0#  | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.458 | 0.460 | -0.4  | 97    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.523 | 0.530 | -1.3  | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.259 | 0.284 | -9.7  | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.357 | 0.377 | -5.6  | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.433 | 0.473 | -9.2  | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.158 | 0.185 | -17.1 | 119   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.143 | 0.148 | -3.5  | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.327 | 0.357 | -9.2  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.262 | 0.287 | -9.5  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.462 | 0.464 | -0.4  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.349 | 0.362 | -3.7  | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 1.066 | 1.048 | 1.7   | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.382 | 0.387 | -1.3  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.881 | 1.757 | 6.6#  | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.738 | 0.693 | 6.1   | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.699 | 0.673 | 3.7   | 96    | 0.00     |
| 70 T  | Styrene                     | 1.186 | 1.174 | 1.0   | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.210 | 0.224 | -6.7  | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.968 | 3.642 | 8.2   | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 0.909 | 0.901 | 0.9   | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.722 | 0.760 | -5.3  | 107   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.508 | 0.526 | -3.5  | 106   | 0.00     |
| 77 T  | Bromobenzene                | 0.888 | 0.915 | -3.0  | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 4.624 | 4.151 | 10.2  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.681 | 2.551 | 4.8   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.360 | 3.192 | 5.0   | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.243 | 0.222 | 8.6   | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.783 | 2.670 | 4.1   | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.935 | 2.736 | 6.8   | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.347 | 3.190 | 4.7   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.108 | 3.611 | 12.1  | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.718 | 3.300 | 11.2  | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.742 | 1.678 | 3.7   | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.748 | 1.692 | 3.2   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.537 | 2.958 | 16.4  | 81    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.720 | 0.678 | 5.8  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.587 | 1.594 | -0.4 | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.134 | 0.133 | 0.7  | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.080 | 0.972 | 10.0 | 84    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.577 | 0.473 | 18.0 | 75    | 0.00     |
| 95 T | Naphthalene                 | 2.267 | 2.179 | 3.9  | 90    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.929 | 0.839 | 9.7  | 84    | 0.00     |

(#) = Out of Range

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