

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW062318\  
 Data File : VW003477.D  
 Acq On : 23 Jun 2018 23:46  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 25 04:27:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 05:18:54 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    | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.151 | 0.188 | -24.5# | 135   | 0.00     |
| 3 P   | Chloromethane               | 0.382 | 0.350 | 8.4    | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.557 | 0.481 | 13.6#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.370 | 0.306 | 17.3   | 91    | 0.00     |
| 6 T   | Chloroethane                | 0.388 | 0.316 | 18.6   | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.334 | 0.291 | 12.9   | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 0.245 | 0.244 | 0.4    | 107   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.463 | 0.416 | 10.2   | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 0.700 | 0.674 | 3.7    | 105   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.029 | 0.033 | -13.8  | 112   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.453 | 0.415 | 8.4#   | 103   | 0.00     |
| 13 T  | Acrolein                    | 0.042 | 0.050 | -19.0  | 131   | 0.00     |
| 14 T  | Allyl chloride              | 0.784 | 0.780 | 0.5    | 108   | 0.00     |
| 15 T  | Acrylonitrile               | 0.101 | 0.107 | -5.9   | 110   | 0.00     |
| 16 T  | Acetone                     | 0.114 | 0.101 | 11.4   | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.338 | 1.204 | 10.0   | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 0.269 | 0.294 | -9.3   | 117   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.848 | 0.927 | -9.3   | 114   | 0.00     |
| 20 T  | Methylene Chloride          | 0.562 | 0.481 | 14.4   | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.493 | 0.472 | 4.3    | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.578 | 1.689 | -7.0   | 113   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.909 | 0.968 | -6.5   | 109   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.937 | 0.927 | 1.1    | 108   | 0.00     |
| 25 T  | 2-Butanone                  | 0.141 | 0.145 | -2.8   | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.625 | 0.560 | 10.4   | 99    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.541 | 0.541 | 0.0    | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 0.390 | 0.453 | -16.2  | 115   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.086 | 0.095 | -10.5  | 115   | 0.00     |
| 30 C  | Chloroform                  | 0.954 | 0.967 | -1.4#  | 109   | 0.00     |
| 31 T  | Cyclohexane                 | 0.875 | 0.776 | 11.3   | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.788 | 0.747 | 5.2    | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.542 | 0.562 | -3.7   | 110   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.311 | 0.308 | 1.0    | 108   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.483 | 0.446 | 7.7    | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.200 | 0.207 | -3.5   | 113   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.474 | 0.429 | 9.5    | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.559 | 0.512 | 8.4    | 102   | 0.00     |
| 40 TM | Benzene                     | 1.331 | 1.292 | 2.9    | 108   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.123 | 0.115 | 6.5    | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.417 | 0.408 | 2.2    | 108   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.397 | 0.415 | -4.5   | 112   | 0.00     |
| 44 TM | Trichloroethene             | 0.353 | 0.330 | 6.5    | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.339 | 0.338 | 0.3#   | 110   | 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              | 0.174 | 0.172 | 1.1   | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.445 | 0.441 | 0.9   | 109   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.187 | 0.198 | -5.9  | 110   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 1.232 | 1.222 | 0.8   | 107   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.202 | 0.217 | -7.4  | 113   | 0.00     |
| 52 CM | Toluene                     | 0.854 | 0.825 | 3.4#  | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.454 | 0.455 | -0.2  | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.517 | 0.518 | -0.2  | 108   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.244 | 0.247 | -1.2  | 111   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.297 | 0.324 | -9.1  | 112   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.422 | 0.429 | -1.7  | 111   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.133 | 0.148 | -11.3 | 117   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.141 | 0.150 | -6.4  | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.291 | 0.293 | -0.7  | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.231 | 0.235 | -1.7  | 110   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.436 | 0.443 | -1.6  | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.334 | 0.310 | 7.2   | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 1.041 | 0.973 | 6.5   | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.366 | 0.348 | 4.9   | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.846 | 1.755 | 4.9#  | 106   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.702 | 0.665 | 5.3   | 106   | 0.00     |
| 69 T  | o-Xylene                    | 0.650 | 0.635 | 2.3   | 107   | 0.00     |
| 70 T  | Styrene                     | 1.082 | 1.061 | 1.9   | 106   | 0.00     |
| 71 P  | Bromoform                   | 0.190 | 0.187 | 1.6   | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.478 | 3.316 | 4.7   | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 0.792 | 0.831 | -4.9  | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.588 | 0.591 | -0.5  | 111   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.427 | 0.423 | 0.9   | 110   | 0.00     |
| 77 T  | Bromobenzene                | 0.810 | 0.767 | 5.3   | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.258 | 4.044 | 5.0   | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.407 | 2.308 | 4.1   | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.919 | 2.817 | 3.5   | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.186 | 0.184 | 1.1   | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.553 | 2.419 | 5.2   | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.488 | 2.370 | 4.7   | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.003 | 2.909 | 3.1   | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.698 | 3.484 | 5.8   | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.261 | 3.068 | 5.9   | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.664 | 1.557 | 6.4   | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.654 | 1.553 | 6.1   | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.179 | 2.963 | 6.8   | 100   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.590 | 0.558 | 5.4  | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.457 | 1.400 | 3.9  | 106   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.099 | 0.102 | -3.0 | 111   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.023 | 0.978 | 4.4  | 104   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.615 | 0.557 | 9.4  | 99    | 0.00     |
| 95 T | Naphthalene                 | 1.736 | 1.817 | -4.7 | 109   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.901 | 0.871 | 3.3  | 106   | 0.00     |

(#) = Out of Range

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