

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081619\  
 Data File : VW011949.D  
 Acq On : 16 Aug 2019 01:11  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 16 05:49:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 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   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.279 | 0.233 | 16.5  | 71    | 0.00     |
| 3 P   | Chloromethane               | 0.483 | 0.415 | 14.1  | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.582 | 0.523 | 10.1# | 75    | 0.00     |
| 5 T   | Bromomethane                | 0.322 | 0.256 | 20.5# | 68    | -0.01    |
| 6 T   | Chloroethane                | 0.332 | 0.314 | 5.4   | 78    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 0.260 | 0.250 | 3.8   | 78    | -0.01    |
| 8 T   | Diethyl Ether               | 0.295 | 0.303 | -2.7  | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.493 | 0.478 | 3.0   | 79    | -0.01    |
| 10 T  | Methyl Iodide               | 0.697 | 0.697 | 0.0   | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.048 | 0.040 | 16.7  | 82    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.521 | 0.500 | 4.0#  | 79    | 0.00     |
| 13 T  | Acrolein                    | 0.041 | 0.029 | 29.3# | 62    | 0.00     |
| 14 T  | Allyl chloride              | 1.108 | 1.110 | -0.2  | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 0.147 | 0.157 | -6.8  | 86    | 0.00     |
| 16 T  | Acetone                     | 0.183 | 0.133 | 27.3# | 60    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.630 | 1.480 | 9.2   | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 0.410 | 0.437 | -6.6  | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.826 | 0.894 | -8.2  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.630 | 0.587 | 6.8   | 82    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.561 | 0.564 | -0.5  | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.088 | 2.199 | -5.3  | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.312 | 1.368 | -4.3  | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.118 | 1.166 | -4.3  | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 0.239 | 0.218 | 8.8   | 72    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.688 | 0.580 | 15.7  | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.618 | 0.635 | -2.8  | 85    | 0.00     |
| 28 T  | Bromochloromethane          | 0.496 | 0.543 | -9.5  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.137 | 0.145 | -5.8  | 85    | 0.00     |
| 30 C  | Chloroform                  | 1.032 | 1.072 | -3.9# | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 1.073 | 1.018 | 5.1   | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.786 | 0.825 | -5.0  | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.574 | 0.618 | -7.7  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.281 | 0.295 | -5.0  | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.520 | 0.518 | 0.4   | 84    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.299 | 0.306 | -2.3  | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.445 | 0.447 | -0.4  | 84    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.572 | 0.572 | 0.0   | 84    | 0.00     |
| 40 TM | Benzene                     | 1.456 | 1.459 | -0.2  | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.179 | 0.180 | -0.6  | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.456 | 0.466 | -2.2  | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.550 | 0.578 | -5.1  | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.350 | 0.354 | -1.1  | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.390 | 0.398 | -2.1# | 86    | 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              | 0.178 | 0.181 | -1.7   | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.467 | 0.478 | -2.4   | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.264 | 0.280 | -6.1   | 86    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0    | 91    | 0.01     |
| 50 S  | Toluene-d8                  | 1.148 | 1.200 | -4.5   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.286 | 0.302 | -5.6   | 86    | 0.00     |
| 52 CM | Toluene                     | 0.879 | 0.887 | -0.9#  | 85    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.487 | 0.490 | -0.6   | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.579 | 0.582 | -0.5   | 83    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.252 | 0.257 | -2.0   | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.369 | 0.398 | -7.9   | 86    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.477 | 0.491 | -2.9   | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.168 | 0.203 | -20.8# | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.202 | 0.205 | -1.5   | 80    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.280 | 0.285 | -1.8   | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.239 | 0.246 | -2.9   | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.409 | 0.607 | -48.4# | 128   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.326 | 0.337 | -3.4   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 1.005 | 1.014 | -0.9   | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.350 | 0.358 | -2.3   | 84    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.915 | 1.976 | -3.2#  | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.696 | 0.707 | -1.6   | 85    | 0.00     |
| 69 T  | o-Xylene                    | 0.647 | 0.674 | -4.2   | 86    | 0.00     |
| 70 T  | Styrene                     | 1.119 | 1.171 | -4.6   | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.179 | 0.185 | -3.4   | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.730 | 3.753 | -0.6   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 1.168 | 1.284 | -9.9   | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.702 | 0.783 | -11.5  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.529 | 0.508 | 4.0    | 86    | 0.00     |
| 77 T  | Bromobenzene                | 0.824 | 0.836 | -1.5   | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 4.540 | 4.514 | 0.6    | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.615 | 2.622 | -0.3   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.127 | 3.136 | -0.3   | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.230 | 0.229 | 0.4    | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.744 | 2.726 | 0.7    | 84    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.615 | 2.675 | -2.3   | 86    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.150 | 3.125 | 0.8    | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.731 | 3.749 | -0.5   | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.385 | 3.377 | 0.2    | 84    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.617 | 1.547 | 4.3    | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.608 | 1.567 | 2.5    | 84    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.378 | 3.269 | 3.2    | 81    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.599 | 0.586 | 2.2   | 82    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.430 | 1.402 | 2.0   | 84    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.120 | 0.120 | 0.0   | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.008 | 0.976 | 3.2   | 81    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.628 | 0.611 | 2.7   | 83    | 0.00     |
| 95 T | Naphthalene                 | 1.787 | 1.993 | -11.5 | 87    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.883 | 0.882 | 0.1   | 83    | 0.00     |

(#) = Out of Range

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