

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX091019\  
 Data File : VX012266.D  
 Acq On : 10 Sep 2019 20:11  
 Operator : SY/SP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 11 02:24:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 12:55:26 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     | 0.409 | 0.371 | 9.3   | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.368 | 0.353 | 4.1   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.365 | 0.347 | 4.9#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 0.179 | 0.211 | -17.9 | 115   | 0.00     |
| 6 T   | Chloroethane                | 0.244 | 0.226 | 7.4   | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.661 | 0.613 | 7.3   | 83    | 0.00     |
| 8 T   | Diethyl Ether               | 0.226 | 0.241 | -6.6  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.446 | 0.448 | -0.4  | 84    | 0.00     |
| 10 T  | Methyl Iodide               | 0.424 | 0.343 | 19.1  | 66    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.079 | 0.073 | 7.6   | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.378 | 0.376 | 0.5#  | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.037 | 0.029 | 21.6# | 68    | 0.00     |
| 14 T  | Allyl chloride              | 0.771 | 0.771 | 0.0   | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 0.139 | 0.149 | -7.2  | 89    | 0.00     |
| 16 T  | Acetone                     | 0.167 | 0.142 | 15.0  | 77    | 0.00     |
| 17 T  | Carbon Disulfide            | 0.794 | 0.765 | 3.7   | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 0.352 | 0.375 | -6.5  | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.494 | 1.590 | -6.4  | 87    | 0.00     |
| 20 T  | Methylene Chloride          | 0.576 | 0.537 | 6.8   | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.451 | 0.447 | 0.9   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.764 | 1.845 | -4.6  | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.082 | 1.140 | -5.4  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.945 | 0.978 | -3.5  | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 0.214 | 0.210 | 1.9   | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.887 | 0.815 | 8.1   | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.583 | 0.601 | -3.1  | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.443 | 0.467 | -5.4  | 85    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.115 | 0.128 | -11.3 | 91    | 0.00     |
| 30 C  | Chloroform                  | 1.066 | 1.089 | -2.2# | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 0.656 | 0.627 | 4.4   | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.915 | 0.899 | 1.7   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.707 | 0.752 | -6.4  | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.321 | 0.314 | 2.2   | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.365 | 0.342 | 6.3   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.225 | 0.237 | -5.3  | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.428 | 0.398 | 7.0   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.400 | 0.372 | 7.0   | 84    | 0.00     |
| 40 TM | Benzene                     | 1.103 | 1.079 | 2.2   | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.139 | 0.149 | -7.2  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.436 | 0.436 | 0.0   | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.475 | 0.487 | -2.5  | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.299 | 0.288 | 3.7   | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.305 | 0.302 | 1.0#  | 88    | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.167 | 0.173 | -3.6 | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.456 | 0.456 | 0.0  | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.227 | 0.236 | -4.0 | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0  | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 1.124 | 1.166 | -3.7 | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.251 | 0.253 | -0.8 | 88    | 0.00     |
| 52 CM | Toluene                     | 0.729 | 0.707 | 3.0# | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.455 | 0.441 | 3.1  | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.504 | 0.488 | 3.2  | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.259 | 0.263 | -1.5 | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.350 | 0.363 | -3.7 | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.442 | 0.448 | -1.4 | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.179 | 0.186 | -3.9 | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.174 | 0.175 | -0.6 | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.302 | 0.315 | -4.3 | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.241 | 0.240 | 0.4  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.521 | 0.508 | 2.5  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.264 | 0.262 | 0.8  | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 0.914 | 0.881 | 3.6  | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.344 | 0.344 | 0.0  | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.625 | 1.558 | 4.1# | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.598 | 0.578 | 3.3  | 86    | 0.00     |
| 69 T  | o-Xylene                    | 0.586 | 0.571 | 2.6  | 86    | 0.00     |
| 70 T  | Styrene                     | 1.039 | 1.022 | 1.6  | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.179 | 0.184 | -2.8 | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.292 | 3.258 | 1.0  | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 0.979 | 0.993 | -1.4 | 85    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.707 | 0.743 | -5.1 | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.642 | 0.657 | -2.3 | 87    | 0.00     |
| 77 T  | Bromobenzene                | 0.758 | 0.773 | -2.0 | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 3.975 | 3.906 | 1.7  | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.463 | 2.455 | 0.3  | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.960 | 2.935 | 0.8  | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.214 | 0.215 | -0.5 | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.960 | 2.953 | 0.2  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.874 | 2.813 | 2.1  | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.060 | 3.041 | 0.6  | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.430 | 3.300 | 3.8  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.169 | 3.068 | 3.2  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.544 | 1.525 | 1.2  | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.561 | 1.533 | 1.8  | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.106 | 2.973 | 4.3  | 83    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.584 | 0.584 | 0.0  | 84    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.428 | 1.416 | 0.8  | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.144 | 0.145 | -0.7 | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.986 | 0.935 | 5.2  | 81    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.491 | 0.453 | 7.7  | 80    | 0.00     |
| 95 T | Naphthalene                 | 2.116 | 2.125 | -0.4 | 85    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.873 | 0.851 | 2.5  | 84    | 0.00     |

(#) = Out of Range

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