

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv111919\  
 Data File : VY000737.D  
 Acq On : 19 Nov 2019 10:50  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 19 15:39:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.492 | 0.441 | 10.4  | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.678 | 0.589 | 13.1  | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.630 | 0.577 | 8.4#  | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.378 | 0.380 | -0.5  | 103   | 0.00     |
| 6 T   | Chloroethane                | 0.394 | 0.375 | 4.8   | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.850 | 0.805 | 5.3   | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.302 | 0.270 | 10.6  | 87    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.514 | 0.475 | 7.6   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 0.606 | 0.541 | 10.7  | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.050 | 0.037 | 26.0# | 78    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.499 | 0.453 | 9.2#  | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.044 | 0.033 | 25.0# | 75    | 0.00     |
| 14 T  | Allyl chloride              | 0.812 | 0.800 | 1.5   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 0.155 | 0.135 | 12.9  | 86    | 0.00     |
| 16 T  | Acetone                     | 0.143 | 0.153 | -7.0  | 96    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.575 | 1.367 | 13.2  | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 0.443 | 0.377 | 14.9  | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.389 | 1.247 | 10.2  | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.611 | 0.516 | 15.5  | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.565 | 0.521 | 7.8   | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.765 | 1.768 | -0.2  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.114 | 1.050 | 5.7   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.956 | 0.912 | 4.6   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.228 | 0.210 | 7.9   | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.874 | 0.820 | 6.2   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.617 | 0.592 | 4.1   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.388 | 0.459 | -18.3 | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.139 | 0.121 | 12.9  | 86    | 0.00     |
| 30 C  | Chloroform                  | 0.967 | 0.942 | 2.6#  | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 1.002 | 0.913 | 8.9   | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.862 | 0.811 | 5.9   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.517 | 0.492 | 4.8   | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.294 | 0.271 | 7.8   | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.473 | 0.445 | 5.9   | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.281 | 0.243 | 13.5  | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.455 | 0.427 | 6.2   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.611 | 0.577 | 5.6   | 91    | 0.00     |
| 40 TM | Benzene                     | 1.386 | 1.310 | 5.5   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.157 | 0.146 | 7.0   | 99    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.393 | 0.369 | 6.1   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.527 | 0.467 | 11.4  | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.365 | 0.339 | 7.1   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.341 | 0.330 | 3.2#  | 95    | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.188 | 0.173 | 8.0   | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.445 | 0.426 | 4.3   | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.230 | 0.209 | 9.1   | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.002 | 33.3# | 80    | -0.01    |
| 50 S  | Toluene-d8                  | 1.114 | 1.109 | 0.4   | 87    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.280 | 0.246 | 12.1  | 85    | 0.00     |
| 52 CM | Toluene                     | 0.876 | 0.842 | 3.9#  | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.476 | 0.458 | 3.8   | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.545 | 0.530 | 2.8   | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.271 | 0.253 | 6.6   | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.385 | 0.353 | 8.3   | 86    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.475 | 0.442 | 6.9   | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.174 | 0.170 | 2.3   | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.204 | 0.187 | 8.3   | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.311 | 0.286 | 8.0   | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.261 | 0.236 | 9.6   | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.424 | 0.401 | 5.4   | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.413 | 0.380 | 8.0   | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 1.014 | 0.967 | 4.6   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.352 | 0.335 | 4.8   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.866 | 1.825 | 2.2#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.722 | 0.711 | 1.5   | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.658 | 3.1   | 95    | 0.00     |
| 70 T  | Styrene                     | 1.162 | 1.159 | 0.3   | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.202 | 0.187 | 7.4   | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.695 | 3.597 | 2.7   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.058 | 0.980 | 7.4   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.732 | 0.655 | 10.5  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.569 | 0.491 | 13.7  | 76    | 0.00     |
| 77 T  | Bromobenzene                | 0.838 | 0.772 | 7.9   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.459 | 4.409 | 1.1   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.475 | 2.422 | 2.1   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.078 | 3.009 | 2.2   | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.254 | 0.244 | 3.9   | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.566 | 2.529 | 1.4   | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.628 | 2.648 | -0.8  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.064 | 3.081 | -0.6  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.744 | 3.820 | -2.0  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.337 | 3.325 | 0.4   | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.641 | 1.575 | 4.0   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.640 | 1.588 | 3.2   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.291 | 3.388 | -2.9  | 98    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.617 | 0.611 | 1.0  | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.489 | 1.451 | 2.6  | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.129 | 0.106 | 17.8 | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.014 | 0.962 | 5.1  | 95    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.523 | 0.488 | 6.7  | 89    | 0.00     |
| 95 T | Naphthalene                 | 2.251 | 1.996 | 11.3 | 87    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.910 | 0.827 | 9.1  | 88    | 0.00     |

(#) = Out of Range

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