

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD031020\  
 Data File : VD065471.D  
 Acq On : 10 Mar 2020 19:19  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 11 02:37:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 01:22:07 2020  
 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    | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.430 | 0.368 | 14.4   | 80    | 0.00     |
| 3 P   | Chloromethane               | 0.519 | 0.462 | 11.0   | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.512 | 0.470 | 8.2#   | 82    | 0.00     |
| 5 T   | Bromomethane                | 0.327 | 0.307 | 6.1    | 87    | 0.00     |
| 6 T   | Chloroethane                | 0.313 | 0.300 | 4.2    | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.754 | 0.707 | 6.2    | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 0.224 | 0.236 | -5.4   | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.486 | 0.457 | 6.0    | 86    | -0.01    |
| 10 T  | Methyl Iodide               | 0.505 | 0.522 | -3.4   | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.025 | 0.025 | 0.0    | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.465 | 0.437 | 6.0#   | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.042 | 0.057 | -35.7# | 127   | 0.00     |
| 14 T  | Allyl chloride              | 0.714 | 0.718 | -0.6   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 0.098 | 0.104 | -6.1   | 96    | 0.00     |
| 16 T  | Acetone                     | 0.087 | 0.077 | 11.5   | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.549 | 1.428 | 7.8    | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 0.220 | 0.229 | -4.1   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.894 | 0.984 | -10.1  | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.537 | 0.531 | 1.1    | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.517 | 0.522 | -1.0   | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.328 | 1.473 | -10.9  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.737 | 0.838 | -13.7  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.852 | 0.878 | -3.1   | 91    | -0.01    |
| 25 T  | 2-Butanone                  | 0.118 | 0.121 | -2.5   | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.744 | 0.728 | 2.2    | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.529 | 0.567 | -7.2   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.341 | 0.397 | -16.4  | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.076 | 0.084 | -10.5  | 96    | 0.00     |
| 30 C  | Chloroform                  | 0.851 | 0.906 | -6.5#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 0.852 | 0.774 | 9.2    | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.787 | 0.788 | -0.1   | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.429 | 0.445 | -3.7   | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.309 | 0.311 | -0.6   | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.479 | 0.463 | 3.3    | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.185 | 0.195 | -5.4   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.497 | 0.477 | 4.0    | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.579 | 0.555 | 4.1    | 83    | 0.00     |
| 40 TM | Benzene                     | 1.340 | 1.390 | -3.7   | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.098 | 0.094 | 4.1    | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.350 | 0.368 | -5.1   | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.342 | 0.354 | -3.5   | 94    | 0.00     |
| 44 TM | Trichloroethene             | 0.378 | 0.373 | 1.3    | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.325 | 0.340 | -4.6#  | 94    | 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              | 0.168 | 0.180 | -7.1  | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.438 | 0.466 | -6.4  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.161 | 0.172 | -6.8  | 97    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 1.186 | 1.183 | 0.3   | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.172 | 0.191 | -11.0 | 99    | 0.00     |
| 52 CM | Toluene                     | 0.844 | 0.883 | -4.6# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.409 | 0.436 | -6.6  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.495 | 0.534 | -7.9  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.238 | 0.254 | -6.7  | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.269 | 0.303 | -12.6 | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.403 | 0.429 | -6.5  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.087 | 0.082 | 5.7   | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.119 | 0.128 | -7.6  | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.306 | 0.329 | -7.5  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.227 | 0.242 | -6.6  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.366 | 0.384 | -4.9  | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.358 | 0.347 | 3.1   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 0.989 | 1.010 | -2.1  | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.360 | 0.374 | -3.9  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.710 | 1.769 | -3.5# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.659 | 0.680 | -3.2  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.580 | 0.614 | -5.9  | 92    | 0.00     |
| 70 T  | Styrene                     | 1.021 | 1.096 | -7.3  | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.202 | 0.219 | -8.4  | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.289 | 3.374 | -2.6  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 0.673 | 0.720 | -7.0  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.578 | 0.593 | -2.6  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.395 | 0.398 | -0.8  | 97    | 0.00     |
| 77 T  | Bromobenzene                | 0.817 | 0.844 | -3.3  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 3.902 | 4.003 | -2.6  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.199 | 2.237 | -1.7  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.704 | 2.776 | -2.7  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.187 | 0.188 | -0.5  | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.311 | 2.356 | -1.9  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.287 | 2.344 | -2.5  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.665 | 2.801 | -5.1  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.265 | 3.295 | -0.9  | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.979 | 3.059 | -2.7  | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.571 | 1.606 | -2.2  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.563 | 1.559 | 0.3   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.754 | 2.741 | 0.5   | 87    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.614 | 0.608 | 1.0  | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.337 | 1.388 | -3.8 | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.088 | 0.094 | -6.8 | 104   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.906 | 0.919 | -1.4 | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.595 | 0.567 | 4.7  | 89    | 0.00     |
| 95 T | Naphthalene                 | 1.449 | 1.558 | -7.5 | 98    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.783 | 0.812 | -3.7 | 95    | 0.00     |

(#) = Out of Range

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