

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020321\  
 Data File : VD068272.D  
 Acq On : 03 Feb 2021 19:33  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 03 23:45:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 13:19:08 2021  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 49#   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.594 | 0.505 | 15.0  | 42#   | 0.00     |
| 3 P   | Chloromethane               | 0.640 | 0.661 | -3.3  | 52    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.711 | 0.738 | -3.8# | 50    | 0.00     |
| 5 T   | Bromomethane                | 0.488 | 0.515 | -5.5  | 53    | 0.00     |
| 6 T   | Chloroethane                | 0.435 | 0.489 | -12.4 | 54    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.934 | 0.861 | 7.8   | 45#   | 0.00     |
| 8 T   | Diethyl Ether               | 0.275 | 0.291 | -5.8  | 51    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.545 | 0.520 | 4.6   | 46#   | 0.00     |
| 10 T  | Methyl Iodide               | 0.527 | 0.517 | 1.9   | 40#   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.065 | 0.034 | 47.7# | 39#   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.548 | 0.525 | 4.2#  | 46#   | 0.00     |
| 13 T  | Acrolein                    | 0.038 | 0.036 | 5.3   | 50#   | 0.00     |
| 14 T  | Allyl chloride              | 0.797 | 0.770 | 3.4   | 46#   | 0.00     |
| 15 T  | Acrylonitrile               | 0.109 | 0.122 | -11.9 | 52    | 0.00     |
| 16 T  | Acetone                     | 0.085 | 0.090 | -5.9  | 50#   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.764 | 1.612 | 8.6   | 44#   | -0.01    |
| 18 T  | Methyl Acetate              | 0.222 | 0.262 | -18.0 | 56    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.266 | 1.316 | -3.9  | 49#   | 0.00     |
| 20 T  | Methylene Chloride          | 0.684 | 0.696 | -1.8  | 55    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.629 | 0.627 | 0.3   | 48#   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.608 | 1.703 | -5.9  | 50#   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.857 | 0.908 | -6.0  | 49#   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.042 | 1.116 | -7.1  | 51    | 0.00     |
| 25 T  | 2-Butanone                  | 0.129 | 0.135 | -4.7  | 50    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.986 | 0.897 | 9.0   | 44#   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.683 | 0.730 | -6.9  | 51    | 0.00     |
| 28 T  | Bromochloromethane          | 0.355 | 0.366 | -3.1  | 54    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.083 | 0.088 | -6.0  | 50    | 0.00     |
| 30 C  | Chloroform                  | 1.053 | 1.136 | -7.9# | 52    | 0.00     |
| 31 T  | Cyclohexane                 | 1.036 | 0.908 | 12.4  | 44#   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.949 | 0.930 | 2.0   | 47#   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.478 | 0.445 | 6.9   | 48#   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 51    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.276 | 0.274 | 0.7   | 52    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.504 | 0.473 | 6.2   | 47#   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.178 | 0.176 | 1.1   | 49#   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.472 | 0.443 | 6.1   | 46#   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.659 | 0.582 | 11.7  | 44#   | 0.00     |
| 40 TM | Benzene                     | 1.410 | 1.428 | -1.3  | 50    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.108 | 0.116 | -7.4  | 51    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.377 | 0.392 | -4.0  | 51    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.372 | 0.356 | 4.3   | 47#   | 0.00     |
| 44 TM | Trichloroethene             | 0.387 | 0.376 | 2.8   | 48#   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.345 | 0.363 | -5.2# | 52    | 0.00     |
| 46 T  | Dibromomethane              | 0.175 | 0.187 | -6.9  | 52    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.472 | 0.497 | -5.3  | 51    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.185 | 0.171 | 7.6   | 44#   | 0.00     |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0  | 49#   | 0.00     |
| 50 S  | Toluene-d8                  | 1.106 | 0.960 | 13.2 | 48#   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.173 | 0.180 | -4.0 | 51    | 0.00     |
| 52 CM | Toluene                     | 0.919 | 0.912 | 0.8# | 49#   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.478 | 0.467 | 2.3  | 48#   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.569 | 0.561 | 1.4  | 49#   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.248 | 0.262 | -5.6 | 52    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.330 | 0.327 | 0.9  | 48#   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.437 | 0.464 | -6.2 | 52    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.152 | 0.162 | -6.6 | 56    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.120 | 0.119 | 0.8  | 49#   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.311 | 0.321 | -3.2 | 51    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.245 | 0.251 | -2.4 | 50    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.398 | 0.358 | 10.1 | 48#   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 51    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.352 | 0.322 | 8.5  | 47#   | 0.00     |
| 65 PM | Chlorobenzene               | 1.062 | 1.047 | 1.4  | 50    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.380 | -1.6 | 51    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.967 | 1.929 | 1.9# | 50#   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.743 | 0.721 | 3.0  | 49#   | 0.00     |
| 69 T  | o-Xylene                    | 0.690 | 0.677 | 1.9  | 50#   | 0.00     |
| 70 T  | Styrene                     | 1.177 | 1.179 | -0.2 | 50    | 0.00     |
| 71 P  | Bromoform                   | 0.189 | 0.191 | -1.1 | 50    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 53    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.160 | 3.908 | 6.1  | 49#   | 0.00     |
| 74 T  | N-amyl acetate              | 0.865 | 0.783 | 9.5  | 47#   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.662 | 0.686 | -3.6 | 53    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.483 | 0.515 | -6.6 | 50    | 0.00     |
| 77 T  | Bromobenzene                | 0.892 | 0.879 | 1.5  | 51    | 0.00     |
| 78 T  | n-propylbenzene             | 4.922 | 4.664 | 5.2  | 50#   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.764 | 2.628 | 4.9  | 50#   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.465 | 3.250 | 6.2  | 49#   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.239 | 0.210 | 12.1 | 46#   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.874 | 2.736 | 4.8  | 50#   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.936 | 2.730 | 7.0  | 48#   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.439 | 3.260 | 5.2  | 50#   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.107 | 3.802 | 7.4  | 49#   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.736 | 3.481 | 6.8  | 49#   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.715 | 1.676 | 2.3  | 51    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.690 | 1.673 | 1.0  | 52    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.585 | 3.355 | 6.4  | 49#   | 0.00     |
| 90 T  | Hexachloroethane            | 0.675 | 0.632 | 6.4  | 48#   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.469 | 1.452 | 1.2  | 51    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.108 | 0.101 | 6.5  | 49#   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.007 | 0.957 | 5.0  | 49#   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.558 | 0.516 | 7.5  | 48#   | 0.00     |
| 95 T  | Naphthalene                 | 1.888 | 1.837 | 2.7  | 50    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.849 | 0.831 | 2.1  | 50    | 0.00     |

(#) = Out of Range

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