

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081621\  
 Data File : VD070061.D  
 Acq On : 16 Aug 2021 11:27  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 17 03:54:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081321S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 14 02:33:51 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.572 | 0.435 | 24.0  | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.785 | 0.614 | 21.8  | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.846 | 0.694 | 18.0# | 89    | 0.00     |
| 5 T   | Bromomethane                | 0.532 | 0.438 | 17.7  | 93    | 0.00     |
| 6 T   | Chloroethane                | 0.541 | 0.443 | 18.1  | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.016 | 0.854 | 15.9  | 89    | 0.00     |
| 8 T   | Diethyl Ether               | 0.291 | 0.253 | 13.1  | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.647 | 0.543 | 16.1  | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 0.591 | 0.532 | 10.0  | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.033 | 0.027 | 18.2  | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.594 | 0.521 | 12.3# | 90    | 0.00     |
| 13 T  | Acrolein                    | 0.037 | 0.038 | -2.7  | 101   | 0.00     |
| 14 T  | Allyl chloride              | 0.886 | 0.796 | 10.2  | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 0.135 | 0.118 | 12.6  | 84    | 0.00     |
| 16 T  | Acetone                     | 0.108 | 0.112 | -3.7  | 104   | 0.00     |
| 17 T  | Carbon Disulfide            | 2.148 | 1.812 | 15.6  | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 0.323 | 0.279 | 13.6  | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.233 | 1.119 | 9.2   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 0.968 | 0.676 | 30.2# | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.690 | 0.602 | 12.8  | 86    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.864 | 1.711 | 8.2   | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.845 | 0.801 | 5.2   | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.275 | 1.087 | 14.7  | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 0.148 | 0.138 | 6.8   | 88    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.993 | 0.891 | 10.3  | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.733 | 0.648 | 11.6  | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 0.464 | 0.426 | 8.2   | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.097 | 0.089 | 8.2   | 85    | 0.00     |
| 30 C  | Chloroform                  | 1.254 | 1.059 | 15.6# | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 1.164 | 1.018 | 12.5  | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.048 | 0.911 | 13.1  | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.588 | 0.603 | -2.6  | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.323 | 0.347 | -7.4  | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.538 | 0.494 | 8.2   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.195 | 0.180 | 7.7   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.488 | 0.439 | 10.0  | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.626 | 0.600 | 4.2   | 90    | 0.00     |
| 40 TM | Benzene                     | 1.560 | 1.389 | 11.0  | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.106 | 0.095 | 10.4  | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.400 | 0.350 | 12.5  | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.365 | 0.330 | 9.6   | 86    | 0.00     |
| 44 TM | Trichloroethene             | 0.377 | 0.334 | 11.4  | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.405 | 0.360 | 11.1# | 85    | 0.00     |
| 46 T  | Dibromomethane              | 0.197 | 0.173 | 12.2  | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.509 | 0.450 | 11.6  | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.174 | 0.166 | 4.6   | 86    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
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|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 1.256 | 1.406 | -11.9 | 106   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.190 | 0.177 | 6.8   | 84    | 0.00     |
| 52 CM | Toluene                     | 0.950 | 0.865 | 8.9#  | 85    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.451 | 0.414 | 8.2   | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.547 | 0.494 | 9.7   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.279 | 0.244 | 12.5  | 84    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.317 | 0.305 | 3.8   | 85    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.483 | 0.431 | 10.8  | 85    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.167 | 0.178 | -6.6  | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.127 | 0.125 | 1.6   | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.319 | 0.278 | 12.9  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.252 | 0.230 | 8.7   | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.414 | 0.456 | -10.1 | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.323 | 0.285 | 11.8  | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 1.045 | 0.928 | 11.2  | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.371 | 0.325 | 12.4  | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.847 | 1.741 | 5.7#  | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.716 | 0.685 | 4.3   | 87    | 0.00     |
| 69 T  | o-Xylene                    | 0.646 | 0.610 | 5.6   | 85    | 0.00     |
| 70 T  | Styrene                     | 1.131 | 1.072 | 5.2   | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.181 | 0.162 | 10.5  | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.646 | 3.535 | 3.0   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 0.786 | 0.739 | 6.0   | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.728 | 0.645 | 11.4  | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.507 | 0.438 | 13.6  | 86    | 0.00     |
| 77 T  | Bromobenzene                | 0.809 | 0.738 | 8.8   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 4.702 | 4.528 | 3.7   | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.705 | 2.536 | 6.2   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.104 | 2.987 | 3.8   | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.195 | 0.194 | 0.5   | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.833 | 2.652 | 6.4   | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.523 | 2.468 | 2.2   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.079 | 2.962 | 3.8   | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.042 | 3.902 | 3.5   | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.266 | 3.160 | 3.2   | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.719 | 1.526 | 11.2  | 83    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.703 | 1.499 | 12.0  | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.205 | 3.096 | 3.4   | 85    | 0.00     |
| 90 T  | Hexachloroethane            | 0.689 | 0.615 | 10.7  | 86    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.473 | 1.315 | 10.7  | 84    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.109 | 0.093 | 14.7  | 83    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.819 | 0.757 | 7.6   | 84    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.484 | 0.443 | 8.5   | 86    | 0.00     |
| 95 T  | Naphthalene                 | 1.491 | 1.416 | 5.0   | 84    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.715 | 0.639 | 10.6 | 81    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6