

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020823\  
 Data File : VD075282.D  
 Acq On : 08 Feb 2023 20:04  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 09 05:43:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 04:26:58 2023  
 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    | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.453 | 0.362 | 20.1   | 73    | 0.00     |
| 3 P   | Chloromethane               | 0.829 | 0.649 | 21.7   | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.832 | 0.657 | 21.0#  | 68    | 0.00     |
| 5 T   | Bromomethane                | 0.532 | 0.439 | 17.5   | 80    | 0.00     |
| 6 T   | Chloroethane                | 0.574 | 0.488 | 15.0   | 76    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.034 | 0.884 | 14.5   | 74    | 0.00     |
| 8 T   | Diethyl Ether               | 0.278 | 0.279 | -0.4   | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.587 | 0.542 | 7.7    | 77    | 0.00     |
| 10 T  | Methyl Iodide               | 0.643 | 0.678 | -5.4   | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.037 | 0.032 | 13.5   | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.560 | 0.545 | 2.7#   | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.023 | 0.015 | 34.8#  | 77    | 0.00     |
| 14 T  | Allyl chloride              | 0.931 | 0.895 | 3.9    | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 0.131 | 0.135 | -3.1   | 87    | 0.00     |
| 16 T  | Acetone                     | 0.155 | 0.130 | 16.1   | 64    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.726 | 1.550 | 10.2   | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 0.446 | 0.420 | 5.8    | 87    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.285 | 1.347 | -4.8   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.801 | 0.691 | 13.7   | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.633 | 0.629 | 0.6    | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.852 | 1.896 | -2.4   | 84    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.562 | 0.715 | -27.2# | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.155 | 1.183 | -2.4   | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 0.192 | 0.177 | 7.8    | 75    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.022 | 0.955 | 6.6    | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.708 | 0.724 | -2.3   | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 0.324 | 0.305 | 5.9    | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.103 | 0.109 | -5.8   | 86    | 0.00     |
| 30 C  | Chloroform                  | 1.188 | 1.203 | -1.3#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 1.041 | 0.894 | 14.1   | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.063 | 1.053 | 0.9    | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.586 | 0.603 | -2.9   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.351 | 0.359 | -2.3   | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.546 | 0.515 | 5.7    | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.238 | 0.238 | 0.0    | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.506 | 0.474 | 6.3    | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.632 | 0.587 | 7.1    | 75    | 0.00     |
| 40 TM | Benzene                     | 1.535 | 1.553 | -1.2   | 85    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.142 | 0.133 | 6.3    | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.444 | 0.463 | -4.3   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.455 | 0.458 | -0.7   | 86    | 0.00     |
| 44 TM | Trichloroethene             | 0.423 | 0.404 | 4.5    | 81    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.390 | 0.387 | 0.8#   | 84    | 0.00     |
| 46 T  | Dibromomethane              | 0.216 | 0.218 | -0.9   | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.538 | 0.558 | -3.7   | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.216 | 0.224 | -3.7   | 85    | 0.00     |

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 MSVOA\_D  
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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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 1.330 | 1.292 | 2.9   | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.230 | 0.237 | -3.0  | 84    | 0.00     |
| 52 CM | Toluene                     | 0.967 | 0.987 | -2.1# | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.466 | 0.476 | -2.1  | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.557 | 0.581 | -4.3  | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.276 | 0.285 | -3.3  | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.321 | 0.358 | -11.5 | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.470 | 0.501 | -6.6  | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.083 | 0.095 | -14.5 | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.168 | 0.161 | 4.2   | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.342 | 0.358 | -4.7  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.266 | 0.269 | -1.1  | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.438 | 0.453 | -3.4  | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.385 | 0.365 | 5.2   | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 1.128 | 1.118 | 0.9   | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.411 | 0.406 | 1.2   | 84    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.082 | 2.022 | 2.9#  | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.792 | 0.785 | 0.9   | 83    | 0.00     |
| 69 T  | o-Xylene                    | 0.740 | 0.739 | 0.1   | 85    | 0.00     |
| 70 T  | Styrene                     | 1.253 | 1.269 | -1.3  | 87    | 0.00     |
| 71 P  | Bromoform                   | 0.221 | 0.227 | -2.7  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.051 | 3.774 | 6.8   | 82    | 0.00     |
| 74 T  | N-amyl acetate              | 0.910 | 0.868 | 4.6   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.705 | 0.688 | 2.4   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.568 | 0.491 | 13.6  | 86    | 0.00     |
| 77 T  | Bromobenzene                | 0.917 | 0.890 | 2.9   | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 5.040 | 4.714 | 6.5   | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.765 | 2.597 | 6.1   | 84    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.373 | 3.221 | 4.5   | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.159 | 0.164 | -3.1  | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.884 | 2.679 | 7.1   | 83    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.908 | 2.751 | 5.4   | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.369 | 3.199 | 5.0   | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.461 | 4.204 | 5.8   | 83    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.649 | 3.501 | 4.1   | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.854 | 1.771 | 4.5   | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.855 | 1.765 | 4.9   | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.562 | 3.311 | 7.0   | 82    | 0.00     |
| 90 T  | Hexachloroethane            | 0.719 | 0.668 | 7.1   | 84    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.609 | 1.546 | 3.9   | 87    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.109 | 0.108 | 0.9   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.007 | 0.930 | 7.6   | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.532 | 0.472 | 11.3  | 77    | 0.00     |
| 95 T  | Naphthalene                 | 1.875 | 1.790 | 4.5   | 85    | 0.00     |

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Quant Title : SW846 8260  
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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 | 0.869 | 0.838 | 3.6  | 86    | 0.00     |

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