

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102821\  
 Data File : VD070884.D  
 Acq On : 28 Oct 2021 10:56  
 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: Oct 29 05:21:59 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 27 05:34:47 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   | 115   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.464 | 0.426 | 8.2   | 112   | 0.00     |
| 3 P   | Chloromethane               | 0.656 | 0.607 | 7.5   | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.726 | 0.696 | 4.1#  | 110   | 0.00     |
| 5 T   | Bromomethane                | 0.520 | 0.407 | 21.7  | 97    | 0.00     |
| 6 T   | Chloroethane                | 0.449 | 0.364 | 18.9  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.894 | 0.850 | 4.9   | 111   | 0.00     |
| 8 T   | Diethyl Ether               | 0.248 | 0.249 | -0.4  | 111   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.576 | 0.564 | 2.1   | 118   | 0.00     |
| 10 T  | Methyl Iodide               | 0.511 | 0.600 | -17.4 | 107   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.027 | 0.025 | 7.4   | 113   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.505 | 0.524 | -3.8# | 114   | 0.00     |
| 13 T  | Acrolein                    | 0.024 | 0.027 | -12.5 | 126   | 0.00     |
| 14 T  | Allyl chloride              | 0.790 | 0.817 | -3.4  | 108   | 0.00     |
| 15 T  | Acrylonitrile               | 0.119 | 0.114 | 4.2   | 105   | 0.00     |
| 16 T  | Acetone                     | 0.117 | 0.117 | 0.0   | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.784 | 1.783 | 0.1   | 110   | 0.00     |
| 18 T  | Methyl Acetate              | 0.401 | 0.355 | 11.5  | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.049 | 1.089 | -3.8  | 110   | 0.00     |
| 20 T  | Methylene Chloride          | 0.809 | 0.616 | 23.9  | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.598 | 0.614 | -2.7  | 111   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.639 | 1.690 | -3.1  | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.745 | 0.790 | -6.0  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.105 | 1.064 | 3.7   | 108   | 0.00     |
| 25 T  | 2-Butanone                  | 0.144 | 0.139 | 3.5   | 101   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.881 | 0.874 | 0.8   | 110   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.641 | 0.666 | -3.9  | 113   | 0.00     |
| 28 T  | Bromochloromethane          | 0.433 | 0.416 | 3.9   | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.087 | 0.085 | 2.3   | 103   | 0.00     |
| 30 C  | Chloroform                  | 1.109 | 1.041 | 6.1#  | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 1.025 | 1.029 | -0.4  | 111   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.947 | 0.909 | 4.0   | 108   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.503 | 0.441 | 12.3  | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 113   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.330 | 0.319 | 3.3   | 110   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.523 | 0.553 | -5.7  | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.195 | 0.196 | -0.5  | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.526 | 0.527 | -0.2  | 109   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.602 | 0.636 | -5.6  | 108   | 0.00     |
| 40 TM | Benzene                     | 1.521 | 1.582 | -4.0  | 109   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.103 | 0.113 | -9.7  | 130   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.387 | 0.369 | 4.7   | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.362 | 0.361 | 0.3   | 106   | 0.00     |
| 44 TM | Trichloroethene             | 0.393 | 0.413 | -5.1  | 116   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.403 | 0.365 | 9.4#  | 97    | 0.00     |
| 46 T  | Dibromomethane              | 0.198 | 0.187 | 5.6   | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.511 | 0.463 | 9.4   | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.173 | 0.154 | 11.0  | 88    | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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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   | 109   | 0.00     |
| 50 S  | Toluene-d8                  | 1.240 | 1.227 | 1.0   | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.190 | 0.159 | 16.3  | 85    | 0.00     |
| 52 CM | Toluene                     | 0.914 | 0.935 | -2.3# | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.445 | 0.433 | 2.7   | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.550 | 0.530 | 3.6   | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.280 | 0.270 | 3.6   | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.308 | 0.297 | 3.6   | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.472 | 0.419 | 11.2  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.133 | 0.116 | 12.8  | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.135 | 0.115 | 14.8  | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.336 | 0.341 | -1.5  | 110   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.259 | 0.254 | 1.9   | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.409 | 0.387 | 5.4   | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.343 | 0.403 | -17.5 | 119   | 0.00     |
| 65 PM | Chlorobenzene               | 1.026 | 1.088 | -6.0  | 109   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.404 | -6.0  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.786 | 1.959 | -9.7# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.696 | 0.810 | -16.4 | 112   | 0.00     |
| 69 T  | o-Xylene                    | 0.630 | 0.715 | -13.5 | 109   | 0.00     |
| 70 T  | Styrene                     | 1.091 | 1.240 | -13.7 | 108   | 0.00     |
| 71 P  | Bromoform                   | 0.201 | 0.217 | -8.0  | 110   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.335 | 3.792 | -13.7 | 109   | 0.00     |
| 74 T  | N-amyl acetate              | 0.733 | 0.674 | 8.0   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.681 | 0.642 | 5.7   | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.492 | 0.478 | 2.8   | 98    | 0.00     |
| 77 T  | Bromobenzene                | 0.813 | 0.903 | -11.1 | 113   | 0.00     |
| 78 T  | n-propylbenzene             | 4.281 | 4.846 | -13.2 | 109   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.486 | 2.718 | -9.3  | 108   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.830 | 3.249 | -14.8 | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.188 | 0.199 | -5.9  | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.583 | 2.890 | -11.9 | 111   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.360 | 2.823 | -19.6 | 116   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.791 | 3.247 | -16.3 | 111   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.723 | 4.355 | -17.0 | 115   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.995 | 3.601 | -20.2 | 116   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.678 | 1.825 | -8.8  | 112   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.664 | 1.784 | -7.2  | 111   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.934 | 3.422 | -16.6 | 116   | 0.00     |
| 90 T  | Hexachloroethane            | 0.672 | 0.688 | -2.4  | 111   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.432 | 1.555 | -8.6  | 112   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.099 | 0.097 | 2.0   | 104   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.827 | 0.945 | -14.3 | 118   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.545 | 0.622 | -14.1 | 123   | 0.00     |
| 95 T  | Naphthalene                 | 1.393 | 1.582 | -13.6 | 112   | 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 | 0.719 | 0.820 | -14.0 | 114   | 0.00     |

(#) = Out of Range

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