

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092021\  
 Data File : VD070394.D  
 Acq On : 20 Sep 2021 20:02  
 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: Sep 21 03:36:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 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   | 119   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.574 | 0.416 | 27.5# | 105   | 0.00     |
| 3 P   | Chloromethane               | 0.771 | 0.558 | 27.6# | 104   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.787 | 0.590 | 25.0# | 103   | 0.00     |
| 5 T   | Bromomethane                | 0.580 | 0.415 | 28.4# | 110   | 0.00     |
| 6 T   | Chloroethane                | 0.541 | 0.404 | 25.3# | 108   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.041 | 0.830 | 20.3  | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.288 | 0.282 | 2.1   | 117   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.646 | 0.514 | 20.4  | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.564 | 0.552 | 2.1   | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.073 | 0.032 | 56.2# | 75    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.582 | 0.496 | 14.8# | 105   | 0.00     |
| 13 T  | Acrolein                    | 0.032 | 0.031 | 3.1   | 124   | 0.00     |
| 14 T  | Allyl chloride              | 0.855 | 0.756 | 11.6  | 112   | 0.00     |
| 15 T  | Acrylonitrile               | 0.137 | 0.126 | 8.0   | 116   | 0.00     |
| 16 T  | Acetone                     | 0.115 | 0.092 | 20.0  | 106   | 0.00     |
| 17 T  | Carbon Disulfide            | 2.148 | 1.612 | 25.0  | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 0.344 | 0.305 | 11.3  | 124   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.258 | 1.311 | -4.2  | 121   | 0.00     |
| 20 T  | Methylene Chloride          | 0.913 | 0.747 | 18.2  | 122   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.693 | 0.609 | 12.1  | 108   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.831 | 1.775 | 3.1   | 118   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.848 | 0.832 | 1.9   | 119   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.295 | 1.134 | 12.4  | 113   | 0.00     |
| 25 T  | 2-Butanone                  | 0.153 | 0.139 | 9.2   | 118   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.047 | 0.874 | 16.5  | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.744 | 0.701 | 5.8   | 115   | 0.00     |
| 28 T  | Bromochloromethane          | 0.514 | 0.522 | -1.6  | 131   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.098 | 0.094 | 4.1   | 122   | 0.00     |
| 30 C  | Chloroform                  | 1.328 | 1.185 | 10.8# | 115   | 0.00     |
| 31 T  | Cyclohexane                 | 1.106 | 0.866 | 21.7  | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.118 | 0.977 | 12.6  | 112   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.642 | 0.650 | -1.2  | 137   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 126   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.356 | 0.345 | 3.1   | 126   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.534 | 0.450 | 15.7  | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.200 | 0.184 | 8.0   | 125   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.529 | 0.446 | 15.7  | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.597 | 0.498 | 16.6  | 99    | 0.00     |
| 40 TM | Benzene                     | 1.566 | 1.364 | 12.9  | 110   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.105 | 0.106 | -1.0  | 138   | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 0.419 | 0.391 | 6.7   | 125   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.370 | 0.347 | 6.2   | 126   | 0.00     |
| 44 TM | Trichloroethene             | 0.374 | 0.332 | 11.2  | 110   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.411 | 0.350 | 14.8# | 111   | 0.00     |
| 46 T  | Dibromomethane              | 0.212 | 0.190 | 10.4  | 118   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.540 | 0.493 | 8.7   | 119   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.171 | 0.155 | 9.4   | 115   | 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 116   | 0.00     |
| 50 S  | Toluene-d8                  | 1.292 | 1.288 | 0.3    | 123   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.191 | 0.181 | 5.2    | 122   | 0.00     |
| 52 CM | Toluene                     | 0.946 | 0.856 | 9.5#   | 108   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.464 | 0.441 | 5.0    | 119   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.565 | 0.520 | 8.0    | 119   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.291 | 0.260 | 10.7   | 113   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.318 | 0.328 | -3.1   | 121   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.496 | 0.449 | 9.5    | 115   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.153 | 0.174 | -13.7  | 141   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.128 | 0.125 | 2.3    | 124   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.339 | 0.315 | 7.1    | 115   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.268 | 0.247 | 7.8    | 117   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.452 | 0.471 | -4.2   | 130   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 127   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.304 | 0.284 | 6.6    | 116   | 0.00     |
| 65 PM | Chlorobenzene               | 1.036 | 0.931 | 10.1   | 113   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.379 | 0.343 | 9.5    | 116   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.786 | 1.660 | 7.1#   | 112   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.690 | 0.635 | 8.0    | 108   | 0.00     |
| 69 T  | o-Xylene                    | 0.618 | 0.637 | -3.1   | 119   | 0.00     |
| 70 T  | Styrene                     | 1.080 | 1.070 | 0.9    | 113   | 0.00     |
| 71 P  | Bromoform                   | 0.187 | 0.177 | 5.3    | 119   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 126   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.506 | 3.550 | -1.3   | 117   | 0.00     |
| 74 T  | N-amyl acetate              | 0.764 | 1.129 | -47.8# | 192#  | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.751 | 0.680 | 9.5    | 120   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.506 | 0.421 | 16.8   | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.809 | 0.770 | 4.8    | 117   | 0.00     |
| 78 T  | n-propylbenzene             | 4.551 | 4.251 | 6.6    | 110   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.653 | 2.519 | 5.1    | 114   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.026 | 2.963 | 2.1    | 112   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.202 | 0.187 | 7.4    | 117   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.799 | 2.564 | 8.4    | 110   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.427 | 2.549 | -5.0   | 121   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.980 | 2.940 | 1.3    | 112   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.858 | 3.774 | 2.2    | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.100 | 3.061 | 1.3    | 112   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.684 | 1.537 | 8.7    | 111   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.691 | 1.488 | 12.0   | 110   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.091 | 2.815 | 8.9    | 107   | 0.00     |
| 90 T  | Hexachloroethane            | 0.710 | 0.595 | 16.2   | 110   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.486 | 1.340 | 9.8    | 111   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.112 | 0.098 | 12.5   | 118   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.802 | 0.760 | 5.2    | 116   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.492 | 0.437 | 11.2   | 118   | 0.00     |
| 95 T  | Naphthalene                 | 1.458 | 1.495 | -2.5   | 132   | 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 | 0.708 | 0.688 | 2.8  | 133   | 0.00     |

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