

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD011923\  
 Data File : VD075144.D  
 Acq On : 19 Jan 2023 16:59  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 20 00:38:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 19 01:32:27 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.435 | 0.359 | 17.5  | 92    | 0.00     |
| 3 P   | Chloromethane               | 0.646 | 0.588 | 9.0   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.693 | 0.607 | 12.4# | 87    | 0.00     |
| 5 T   | Bromomethane                | 0.471 | 0.422 | 10.4  | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.481 | 0.443 | 7.9   | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.881 | 0.842 | 4.4   | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.284 | 0.302 | -6.3  | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.544 | 0.525 | 3.5   | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.732 | 0.736 | -0.5  | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.036 | 0.031 | 13.9  | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.573 | 0.570 | 0.5#  | 95    | 0.00     |
| 13 T  | Acrolein                    | 0.035 | 0.027 | 22.9  | 86    | 0.00     |
| 14 T  | Allyl chloride              | 0.929 | 0.954 | -2.7  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.120 | 0.133 | -10.8 | 96    | 0.00     |
| 16 T  | Acetone                     | 0.135 | 0.142 | -5.2  | 83    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.857 | 1.899 | -2.3  | 97    | 0.00     |
| 18 T  | Methyl Acetate              | 0.366 | 0.410 | -12.0 | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.196 | 1.311 | -9.6  | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.849 | 0.734 | 13.5  | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.637 | 0.659 | -3.5  | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.729 | 1.915 | -10.8 | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.762 | 0.766 | -0.5  | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.087 | 1.176 | -8.2  | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 0.163 | 0.176 | -8.0  | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.969 | 0.950 | 2.0   | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.695 | 0.746 | -7.3  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.297 | 0.312 | -5.1  | 99    | 0.01     |
| 29 T  | Tetrahydrofuran             | 0.093 | 0.101 | -8.6  | 93    | 0.00     |
| 30 C  | Chloroform                  | 1.084 | 1.178 | -8.7# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 1.023 | 0.975 | 4.7   | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.934 | 0.943 | -1.0  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.510 | 0.544 | -6.7  | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.302 | 0.314 | -4.0  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.485 | 0.475 | 2.1   | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.196 | 0.198 | -1.0  | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.409 | 0.378 | 7.6   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.598 | 0.568 | 5.0   | 97    | 0.00     |
| 40 TM | Benzene                     | 1.384 | 1.452 | -4.9  | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.118 | 0.126 | -6.8  | 107   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.364 | 0.377 | -3.6  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.381 | 0.385 | -1.0  | 94    | 0.00     |
| 44 TM | Trichloroethene             | 0.389 | 0.378 | 2.8   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.341 | 0.361 | -5.9# | 99    | 0.00     |
| 46 T  | Dibromomethane              | 0.180 | 0.185 | -2.8  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.446 | 0.476 | -6.7  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.186 | 0.188 | -1.1  | 97    | 0.00     |

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 ALS Vial : 14 Sample Multiplier: 1

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 MSVOA\_D  
 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   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.190 | 1.239 | -4.1  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.183 | 0.190 | -3.8  | 97    | 0.00     |
| 52 CM | Toluene                     | 0.875 | 0.898 | -2.6# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.422 | 0.434 | -2.8  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.516 | 0.542 | -5.0  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.238 | 0.247 | -3.8  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.286 | 0.301 | -5.2  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.409 | 0.441 | -7.8  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.098 | 0.097 | 1.0   | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.132 | 0.138 | -4.5  | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.287 | 0.289 | -0.7  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.227 | 0.231 | -1.8  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.378 | 0.382 | -1.1  | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.357 | 0.336 | 5.9   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 1.025 | 1.035 | -1.0  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.345 | 0.353 | -2.3  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.844 | 1.870 | -1.4# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.712 | 0.713 | -0.1  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.668 | 0.693 | -3.7  | 96    | 0.00     |
| 70 T  | Styrene                     | 1.111 | 1.144 | -3.0  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.178 | 0.180 | -1.1  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.949 | 3.841 | 2.7   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 0.865 | 0.826 | 4.5   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.629 | 0.649 | -3.2  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.423 | 0.414 | 2.1   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.902 | 0.888 | 1.6   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 4.853 | 4.727 | 2.6   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.669 | 2.649 | 0.7   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.236 | 3.195 | 1.3   | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.183 | 0.180 | 1.6   | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.744 | 2.711 | 1.2   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.800 | 2.683 | 4.2   | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.178 | 3.146 | 1.0   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.253 | 4.050 | 4.8   | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.482 | 3.344 | 4.0   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.749 | 1.739 | 0.6   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.720 | 1.704 | 0.9   | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.393 | 3.242 | 4.5   | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 0.615 | 0.577 | 6.2   | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.496 | 1.509 | -0.9  | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.096 | 0.101 | -5.2  | 94    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.982 | 0.923 | 6.0   | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.481 | 0.425 | 11.6  | 86    | 0.00     |
| 95 T  | Naphthalene                 | 1.956 | 1.850 | 5.4   | 92    | 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 | 0.838 | 0.799 | 4.7  | 90    | 0.00     |

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