

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY070221\  
 Data File : VY005332.D  
 Acq On : 02 Jul 2021 10:18  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 05 01:02:03 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062221S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 07:57:52 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   | 75    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.329 | 0.286 | 13.1  | 68    | 0.00     |
| 3 P   | Chloromethane               | 0.438 | 0.412 | 5.9   | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.501 | 0.503 | -0.4# | 77    | 0.00     |
| 5 T   | Bromomethane                | 0.318 | 0.337 | -6.0  | 84    | 0.00     |
| 6 T   | Chloroethane                | 0.327 | 0.343 | -4.9  | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.669 | 0.678 | -1.3  | 77    | 0.00     |
| 8 T   | Diethyl Ether               | 0.250 | 0.244 | 2.4   | 74    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.410 | 0.426 | -3.9  | 78    | -0.01    |
| 10 T  | Methyl Iodide               | 0.583 | 0.490 | 16.0  | 64    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.079 | 0.048 | 39.2# | 74    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.414 | 0.405 | 2.2#  | 74    | 0.00     |
| 13 T  | Acrolein                    | 0.020 | 0.019 | 5.0   | 77    | 0.00     |
| 14 T  | Allyl chloride              | 0.595 | 0.604 | -1.5  | 76    | 0.00     |
| 15 T  | Acrylonitrile               | 0.116 | 0.120 | -3.4  | 77    | 0.00     |
| 16 T  | Acetone                     | 0.096 | 0.113 | -17.7 | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.302 | 1.233 | 5.3   | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 0.255 | 0.261 | -2.4  | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.132 | 1.127 | 0.4   | 75    | 0.00     |
| 20 T  | Methylene Chloride          | 0.678 | 0.509 | 24.9  | 74    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.461 | 0.462 | -0.2  | 76    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.236 | 1.381 | -11.7 | 84    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.800 | 0.902 | -12.7 | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.767 | 0.801 | -4.4  | 79    | 0.00     |
| 25 T  | 2-Butanone                  | 0.140 | 0.161 | -15.0 | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.669 | 0.718 | -7.3  | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.518 | 0.520 | -0.4  | 75    | 0.00     |
| 28 T  | Bromochloromethane          | 0.307 | 0.376 | -22.5 | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.092 | 0.102 | -10.9 | 82    | 0.00     |
| 30 C  | Chloroform                  | 0.781 | 0.819 | -4.9# | 79    | 0.00     |
| 31 T  | Cyclohexane                 | 0.741 | 0.725 | 2.2   | 75    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.696 | 0.723 | -3.9  | 78    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.415 | 0.470 | -13.3 | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.295 | 0.314 | -6.4  | 76    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.440 | 0.450 | -2.3  | 77    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.227 | 0.247 | -8.8  | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.461 | 0.468 | -1.5  | 77    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.570 | 0.563 | 1.2   | 73    | 0.00     |
| 40 TM | Benzene                     | 1.298 | 1.316 | -1.4  | 77    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.126 | 0.117 | 7.1   | 66    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.353 | 0.382 | -8.2  | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.417 | 0.451 | -8.2  | 81    | 0.00     |
| 44 TM | Trichloroethene             | 0.367 | 0.366 | 0.3   | 75    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.311 | 0.328 | -5.5# | 80    | 0.00     |
| 46 T  | Dibromomethane              | 0.181 | 0.188 | -3.9  | 79    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.424 | 0.451 | -6.4  | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.183 | 0.203 | -10.9 | 83    | 0.00     |

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Instrument :  
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 LabSampleId :  
 VSTDCCC050

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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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.003 | -50.0# | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 1.179 | 1.266 | -7.4   | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.218 | 0.248 | -13.8  | 84    | 0.00     |
| 52 CM | Toluene                     | 0.830 | 0.846 | -1.9#  | 77    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.464 | 0.455 | 1.9    | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.523 | 0.543 | -3.8   | 78    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.264 | 0.256 | 3.0    | 74    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.358 | 0.352 | 1.7    | 71    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.442 | 0.434 | 1.8    | 74    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.158 | 0.157 | 0.6    | 74    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.150 | 0.169 | -12.7  | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.323 | 0.316 | 2.2    | 73    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.257 | 0.249 | 3.1    | 73    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.393 | 0.401 | -2.0   | 73    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 73    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.369 | 0.357 | 3.3    | 70    | 0.00     |
| 65 PM | Chlorobenzene               | 0.991 | 0.992 | -0.1   | 73    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.368 | 0.374 | -1.6   | 74    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.709 | 1.755 | -2.7#  | 74    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.685 | 0.699 | -2.0   | 73    | 0.00     |
| 69 T  | o-Xylene                    | 0.648 | 0.660 | -1.9   | 73    | 0.00     |
| 70 T  | Styrene                     | 1.090 | 1.131 | -3.8   | 74    | 0.00     |
| 71 P  | Bromoform                   | 0.250 | 0.251 | -0.4   | 72    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 76    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.243 | 3.213 | 0.9    | 74    | 0.00     |
| 74 T  | N-amyl acetate              | 0.767 | 0.865 | -12.8  | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.639 | 0.647 | -1.3   | 77    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.443 | 0.451 | -1.8   | 77    | 0.00     |
| 77 T  | Bromobenzene                | 0.861 | 0.833 | 3.3    | 73    | 0.00     |
| 78 T  | n-propylbenzene             | 3.824 | 3.916 | -2.4   | 76    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.157 | 2.172 | -0.7   | 76    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.683 | 2.720 | -1.4   | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.238 | 0.239 | -0.4   | 75    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.232 | 2.244 | -0.5   | 76    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.392 | 2.456 | -2.7   | 75    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.652 | 2.691 | -1.5   | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.480 | 3.562 | -2.4   | 75    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.002 | 3.068 | -2.2   | 75    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.643 | 1.636 | 0.4    | 75    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.625 | 1.620 | 0.3    | 75    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.637 | 2.771 | -5.1   | 78    | 0.00     |
| 90 T  | Hexachloroethane            | 0.542 | 0.566 | -4.4   | 78    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.456 | 1.441 | 1.0    | 75    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.106 | 0.105 | 0.9    | 76    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.027 | 0.961 | 6.4    | 70    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.642 | 0.616 | 4.0    | 71    | 0.00     |
| 95 T  | Naphthalene                 | 1.895 | 1.764 | 6.9    | 68    | 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 | 0.904 | 0.846 | 6.4  | 69    | 0.00     |

(#) = Out of Range

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