

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082322\  
 Data File : VY010184.D  
 Acq On : 23 Aug 2022 22:39  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 24 04:36:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081922S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 22 02:37:07 2022  
 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                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 65    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 41.364  | 17.3   | 54    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.621  | 4.8    | 64    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.067  | 3.9#   | 63    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.875  | -1.8   | 72    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 55.035  | -10.1  | 73    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.666  | 8.7    | 60    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.641  | -9.3   | 72    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.940  | 4.1    | 63    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.167  | 1.7    | 60    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 334.099 | -33.6# | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.265  | 5.5#   | 61    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 251.043 | -0.4   | 70    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 56.447  | -12.9  | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 328.427 | -31.4# | 86    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 302.269 | -20.9  | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.609  | 4.8    | 63    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 64.917  | -29.8# | 88    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 58.840  | -17.7  | 75    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 57.906  | -15.8  | 72    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.669  | -3.3   | 68    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 61.697  | -23.4  | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 329.388 | -31.8# | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.375  | -10.8  | 73    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 330.604 | -32.2# | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.785  | 6.4    | 64    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.172  | -8.3   | 70    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 59.783  | -19.6  | 74    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 350.500 | -40.2# | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.429  | -10.9# | 73    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.311  | -0.6   | 67    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.035  | -6.1   | 69    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.737  | -1.5   | 64    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 66    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.255  | -0.5   | 62    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.986  | -4.0   | 68    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 68.205  | -36.4# | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.113  | -2.2   | 67    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.856  | -1.7   | 65    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.209  | -8.4   | 72    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 62.644  | -25.3# | 76    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 58.986  | -18.0  | 78    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 66.466  | -32.9# | 86    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.245  | -2.5   | 68    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 57.740  | -15.5# | 76    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 57.311  | -14.6  | 76    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 56.881  | -13.8  | 75    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 66.427  | -32.9# | 82    | 0.00     |

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 ALS Vial : 28 Sample Multiplier: 1

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 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 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                    | Amount   | Calc.    | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1406.597 | -40.7# | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 44.559   | 10.9   | 56    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 347.154  | -38.9# | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.418   | -8.8#  | 72    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.592   | -13.2  | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.545   | -11.1  | 74    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 57.490   | -15.0  | 76    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 62.212   | -24.4  | 78    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 59.181   | -18.4  | 78    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 264.520  | -5.8   | 77    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 350.777  | -40.3# | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.336   | -12.7  | 75    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 57.017   | -14.0  | 75    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.231   | -4.5   | 64    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 72    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.107   | 3.8    | 69    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.297   | -0.6   | 73    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.395   | -2.8   | 74    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.859   | -1.7#  | 72    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.767  | -1.8   | 71    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.238   | -2.5   | 71    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.949   | -5.9   | 73    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.202   | -8.4   | 77    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 79    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.013   | 6.0    | 71    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.643   | -9.3   | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.418   | -0.8   | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.291   | -4.6   | 83    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.909   | 6.2    | 73    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.148   | 5.7    | 71    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.505   | 7.0    | 72    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.851   | 4.3    | 73    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.841   | 0.3    | 75    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.140   | 5.7    | 73    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.008   | 6.0    | 71    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.274   | 3.5    | 73    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.811   | 6.4    | 71    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.430   | 5.1    | 71    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.565   | 6.9    | 73    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.369   | 7.3    | 74    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.188   | 5.6    | 71    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 45.661   | 8.7    | 72    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.540   | 4.9    | 75    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 53.530   | -7.1   | 82    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 47.402   | 5.2    | 73    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 44.796   | 10.4   | 69    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 46.497   | 7.0    | 76    | 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               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 47.354 | 5.3  | 72    | 0.00     |

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