

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030922\  
 Data File : VY007818.D  
 Acq On : 09 Mar 2022 22:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 10 01:06:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022822S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 01 09:08:03 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    | 50    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.784  | 18.4   | 42    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.689  | 14.6   | 42    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 40.047  | 19.9#  | 42    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.121  | 1.8    | 57    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 41.452  | 17.1   | 46    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 42.272  | 15.5   | 46    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.542  | -5.1   | 54    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 44.255  | 11.5   | 47    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 32.112  | 35.8#  | 33    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 276.353 | -10.5  | 55    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 42.844  | 14.3#  | 46    | 0.01     |
| 13 T  | Acrolein                    | 250.000 | 202.098 | 19.2   | 42    | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 46.578  | 6.8    | 48    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 295.021 | -18.0  | 59    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 295.286 | -18.1  | 61    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.550  | 12.9   | 43    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.769  | -19.5  | 58    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.960  | -5.9   | 53    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.100  | -12.2  | 55    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.840  | 8.3    | 49    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.810  | -11.6  | 57    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 294.441 | -17.8  | 57    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.744  | 2.5    | 51    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 315.149 | -26.1# | 62    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.711  | 8.6    | 46    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.605  | 2.8    | 50    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.742  | -13.5  | 58    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 317.654 | -27.1# | 63    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.179  | -2.4#  | 52    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.771  | 8.5    | 45    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.310  | 3.4    | 49    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.050  | -6.1   | 57    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 53    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.039  | -0.1   | 55    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 43.869  | 12.3   | 48    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.494  | -9.0   | 57    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 44.079  | 11.8   | 47    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 40.555  | 18.9   | 44    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.251  | 5.5    | 50    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.236  | -10.5  | 54    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.093  | -2.2   | 54    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.110  | -12.2  | 58    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 43.560  | 12.9   | 47    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.781  | -1.6#  | 54    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 52.662  | -5.3   | 55    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.204  | -6.4   | 55    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 55.994  | -12.0  | 58    | 0.00     |

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 LabSampleId :  
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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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1124.241 | -12.4 | 57    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.135   | 5.7   | 53    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 303.463  | -21.4 | 61    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.743   | 4.5#  | 50    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.120   | -2.2  | 53    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.143   | -0.3  | 52    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.530   | -7.1  | 55    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.058   | -6.1  | 53    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.422   | -4.8  | 55    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 286.652  | -14.7 | 56    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 307.919  | -23.2 | 61    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.072   | -10.1 | 56    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.752   | -5.5  | 54    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.880   | 0.2   | 55    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 55    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 39.909   | 20.2  | 45    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.487   | 7.0   | 51    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.546   | 0.9   | 53    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 45.382   | 9.2#  | 50    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 91.486   | 8.5   | 50    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.477   | 5.0   | 52    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.773   | 0.5   | 53    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.526   | -5.1  | 56    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 58    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 43.157   | 13.7  | 50    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 52.375   | -4.8  | 59    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.800   | -1.6  | 58    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.379   | -8.8  | 62    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.019   | 8.0   | 53    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 43.622   | 12.8  | 50    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 44.488   | 11.0  | 51    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 44.513   | 11.0  | 51    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.861   | 4.3   | 54    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 45.702   | 8.6   | 53    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 44.071   | 11.9  | 50    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 45.419   | 9.2   | 52    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 44.790   | 10.4  | 51    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 44.287   | 11.4  | 50    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 45.848   | 8.3   | 53    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.545   | 6.9   | 54    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 43.948   | 12.1  | 50    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 45.987   | 8.0   | 53    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.438   | 5.1   | 54    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 51.577   | -3.2  | 59    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 42.651   | 14.7  | 48    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 41.018   | 18.0  | 46    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 47.297   | 5.4   | 53    | 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 | 45.035 | 9.9  | 51    | 0.00     |

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