

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\YY111023\  
 Data File : VY016314.D  
 Acq On : 10 Nov 2023 19:09  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 10 22:24:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 09 00:45:52 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                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.364  | 5.3   | 87    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.063  | -0.1  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.908  | 2.2#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.481  | -1.0  | 92    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.493  | -3.0  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.298  | -2.6  | 89    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 55.483  | -11.0 | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.460  | 1.1   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.207  | -4.4  | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 253.716 | -1.5  | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.396  | -2.8# | 91    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 209.274 | 16.3  | 71    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.811  | -5.6  | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 282.116 | -12.8 | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 267.250 | -6.9  | 96    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.019  | -2.0  | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 61.623  | -23.2 | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.970  | -9.9  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 59.365  | -18.7 | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.475  | -5.0  | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.735  | -9.5  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 265.396 | -6.2  | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.208  | -8.4  | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 272.367 | -8.9  | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.540  | -1.1  | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.688  | -9.4  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 55.759  | -11.5 | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 280.767 | -12.3 | 93    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.641  | -9.3# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.688  | 4.6   | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.406  | -6.8  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.906  | -9.8  | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.190  | -6.4  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.044  | -0.1  | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.051  | -2.1  | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.600  | -1.2  | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.686  | 6.6   | 84    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.918  | -3.8  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 58.641  | -17.3 | 109   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.208  | -8.4  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.120  | -4.2  | 91    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.478  | -3.0  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.329  | -6.7# | 94    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.548  | -7.1  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.747  | -7.5  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.808  | -7.6  | 92    | 0.00     |

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 ALS Vial : 24 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 | 1106.226 | -10.6 | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.190   | -4.4  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 265.083  | -6.0  | 92    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.418   | -4.8# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.260   | -8.5  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.506   | -7.0  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.216   | -8.4  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.790   | -9.6  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.109   | -8.2  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 273.184  | -9.3  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 243.922  | 2.4   | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.615   | -11.2 | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.868   | -9.7  | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.748   | -5.5  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.073   | -4.1  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.392   | -2.8  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.712   | -5.4  | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.090   | -2.2# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.072  | -2.1  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.124   | -4.2  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.538   | -7.1  | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.853   | -7.7  | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.552   | 0.9   | 91    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 49.901   | 0.2   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.387   | -2.8  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.683   | -5.4  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.265   | -2.5  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.903   | 2.2   | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.231   | -0.5  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.797   | 0.4   | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.048   | -4.1  | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.540   | -1.1  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.696   | 2.6   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.396   | -0.8  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.200   | 3.6   | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.694   | 2.6   | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.247   | -0.5  | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.339   | -0.7  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.555   | 4.9   | 86    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 48.959   | 2.1   | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.953   | -1.9  | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 48.095   | 3.8   | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.857   | 2.3   | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 45.542   | 8.9   | 85    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 51.821   | -3.6  | 94    | 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 | 49.268 | 1.5  | 94    | 0.00     |

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