

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022924\  
 Data File : VY017540.D  
 Acq On : 29 Feb 2024 20:02  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 01 00:35:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 2024  
 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    | 70    | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.376  | 9.2    | 65    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.119  | 1.8    | 70    | 0.01     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.225  | 3.5#   | 68    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.277  | -6.6   | 78    | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 53.493  | -7.0   | 74    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.913  | 4.2    | 67    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 58.180  | -16.4  | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.151  | -2.3   | 71    | 0.02     |
| 10 T  | Methyl Iodide               | 50.000  | 53.818  | -7.6   | 69    | 0.02     |
| 11 T  | Tert butyl alcohol          | 250.000 | 222.716 | 10.9   | 68    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.043  | -6.1#  | 73    | 0.02     |
| 13 T  | Acrolein                    | 250.000 | 293.368 | -17.3  | 82    | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 55.963  | -11.9  | 75    | 0.02     |
| 15 T  | Acrylonitrile               | 250.000 | 305.025 | -22.0  | 80    | 0.01     |
| 16 T  | Acetone                     | 250.000 | 258.016 | -3.2   | 70    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.298  | -4.6   | 72    | 0.01     |
| 18 T  | Methyl Acetate              | 50.000  | 66.052  | -32.1# | 84    | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 59.188  | -18.4  | 76    | 0.01     |
| 20 T  | Methylene Chloride          | 50.000  | 58.285  | -16.6  | 75    | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 56.148  | -12.3  | 76    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 60.026  | -20.1  | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 295.144 | -18.1  | 75    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.927  | -15.9  | 79    | 0.02     |
| 25 T  | 2-Butanone                  | 250.000 | 289.821 | -15.9  | 75    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.902  | 2.2    | 68    | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 58.178  | -16.4  | 77    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 72.461  | -44.9# | 118   | 0.01     |
| 29 T  | Tetrahydrofuran             | 250.000 | 311.883 | -24.8  | 79    | 0.01     |
| 30 C  | Chloroform                  | 50.000  | 58.656  | -17.3# | 80    | 0.01     |
| 31 T  | Cyclohexane                 | 50.000  | 49.592  | 0.8    | 69    | 0.01     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.020  | -10.0  | 75    | 0.01     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.728  | -3.5   | 73    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 74    | 0.01     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.621  | 2.8    | 73    | 0.01     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.734  | -5.5   | 75    | 0.01     |
| 37 T  | Ethyl Acetate               | 50.000  | 56.838  | -13.7  | 79    | 0.01     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.286  | -4.6   | 73    | 0.01     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.260  | 1.5    | 68    | 0.01     |
| 40 TM | Benzene                     | 50.000  | 55.224  | -10.4  | 78    | 0.01     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.954  | -5.9   | 69    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.518  | -11.0  | 77    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 57.700  | -15.4  | 78    | 0.01     |
| 44 TM | Trichloroethene             | 50.000  | 53.648  | -7.3   | 77    | 0.01     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.557  | -11.1# | 78    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 56.033  | -12.1  | 78    | 0.01     |
| 47 T  | Bromodichloromethane        | 50.000  | 56.314  | -12.6  | 78    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 56.605  | -13.2  | 75    | 0.01     |

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 Sample : VSTDCCC050  
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 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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 | 1116.505 | -11.7  | 75    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.644   | -3.3   | 73    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 296.427  | -18.6  | 79    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.000   | -10.0# | 77    | 0.01     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.696   | -9.4   | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.951   | -9.9   | 76    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.688   | -13.4  | 80    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.838   | -7.7   | 76    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.669   | -13.3  | 78    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 309.546  | -23.8  | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 290.519  | -16.2  | 75    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.992   | -14.0  | 78    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 56.783   | -13.6  | 78    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.306   | -0.6   | 70    | 0.01     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.920   | -3.8   | 75    | 0.01     |
| 65 PM | Chlorobenzene               | 50.000   | 54.563   | -9.1   | 77    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.294   | -10.6  | 78    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.884   | -9.8#  | 76    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 110.125  | -10.1  | 76    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.724   | -11.4  | 75    | 0.01     |
| 70 T  | Styrene                     | 50.000   | 56.594   | -13.2  | 75    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.400   | -14.8  | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 70    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.293   | -10.6  | 73    | 0.01     |
| 74 T  | N-amyl acetate              | 50.000   | 57.905   | -15.8  | 73    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 61.497   | -23.0  | 81    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 58.563   | -17.1  | 81    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 55.370   | -10.7  | 75    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.107   | -10.2  | 73    | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.902   | -9.8   | 74    | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.690   | -11.4  | 73    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.259   | -10.5  | 73    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.750   | -9.5   | 74    | 0.01     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.457   | -10.9  | 73    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.769   | -11.5  | 73    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.936   | -7.9   | 71    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.691   | -7.4   | 70    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.975   | -8.0   | 73    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.071   | -6.1   | 71    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.445   | -2.9   | 66    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 53.580   | -7.2   | 73    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 55.441   | -10.9  | 73    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 53.154   | -6.3   | 72    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.853   | 2.3    | 62    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.894   | 6.2    | 64    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 45.875   | 8.3    | 63    | 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 | 48.538 | 2.9  | 62    | 0.00     |

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