

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020824\  
 Data File : VY017328.D  
 Acq On : 08 Feb 2024 21:22  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 09 00:18:21 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020124S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 02 00:56:04 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    | 71    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.720  | 12.6   | 73    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 54.850  | -9.7   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.891  | -5.8#  | 84    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 57.772  | -15.5  | 94    | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 55.870  | -11.7  | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.683  | -7.4   | 84    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 59.100  | -18.2  | 87    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.467  | -4.9   | 81    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.488  | 5.0    | 69    | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 300.125 | -20.1  | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.776  | -7.6#  | 82    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 325.812 | -30.3# | 97    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 55.333  | -10.7  | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 307.502 | -23.0  | 92    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 224.340 | 10.3   | 74    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.364  | 1.3    | 75    | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 71.755  | -43.5# | 97    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 60.150  | -20.3  | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 70.791  | -41.6# | 102   | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.765  | -9.5   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 60.419  | -20.8  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 291.868 | -16.7  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.216  | -14.4  | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 274.672 | -9.9   | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.454  | 3.1    | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 58.619  | -17.2  | 88    | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 50.688  | -1.4   | 67    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 318.713 | -27.5# | 95    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 58.887  | -17.8# | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.196  | 1.6    | 77    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.408  | -10.8  | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.171  | -4.3   | 71    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 74    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.537  | 0.9    | 71    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.690  | -3.4   | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.826  | -11.7  | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.594  | -5.2   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.862  | 0.3    | 77    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.452  | -10.9  | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.385  | -8.8   | 88    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 56.852  | -13.7  | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 58.012  | -16.0  | 91    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.830  | -9.7   | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 57.175  | -14.3# | 89    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 59.048  | -18.1  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 57.206  | -14.4  | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 57.060  | -14.1  | 88    | 0.00     |

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 ALS Vial : 26 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 | 1267.480 | -26.7# | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.069   | 1.9    | 68    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 311.464  | -24.6  | 96    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.763   | -11.5# | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.463   | -10.9  | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.769   | -13.5  | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 58.621   | -17.2  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.288   | -10.6  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 58.677   | -17.4  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 268.169  | -7.3   | 78    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 286.308  | -14.5  | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 58.355   | -16.7  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.578   | -17.2  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.105   | -0.2   | 71    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 57.687   | -15.4  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.995   | -10.0  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.737   | -13.5  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.162   | -10.3# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 110.396  | -10.4  | 87    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.739   | -13.5  | 88    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 58.400   | -16.8  | 89    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.090   | -16.2  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 79    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.772   | -5.5   | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 57.212   | -14.4  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 55.146   | -10.3  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 59.290   | -18.6  | 104   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.567   | -7.1   | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.712   | -5.4   | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.589   | -7.2   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.036   | -8.1   | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.314   | -6.6   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.245   | -8.5   | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.236   | -8.5   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.762   | -9.5   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.561   | -5.1   | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.355   | -6.7   | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.050   | -6.1   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.679   | -7.4   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.100   | -6.2   | 86    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 52.860   | -5.7   | 89    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 55.304   | -10.6  | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 56.162   | -12.3  | 97    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 56.270   | -12.5  | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 52.075   | -4.2   | 92    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 57.643   | -15.3  | 107   | 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 | 58.958 | -17.9 | 103   | 0.00     |

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