

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111324\  
 Data File : VY020296.D  
 Acq On : 13 Nov 2024 20:18  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 14 01:04:55 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y103024S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 15:23:13 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    | 79    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.476  | 7.0    | 89    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.291  | -2.6   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.205  | -4.4#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.560  | 4.9    | 86    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.870  | -7.7   | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 63.159  | -26.3# | 109   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 66.558  | -33.1# | 118   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.222  | -2.4   | 90    | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 52.878  | -5.8   | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 207.096 | 17.2   | 90    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 55.921  | -11.8# | 97    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 126.116 | 49.6#  | 45    | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 48.975  | 2.0    | 83    | 0.01     |
| 15 T  | Acrylonitrile               | 250.000 | 263.706 | -5.5   | 91    | 0.01     |
| 16 T  | Acetone                     | 250.000 | 231.859 | 7.3    | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.324  | 13.4   | 74    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.837  | -5.7   | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.218  | -6.4   | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.475  | 9.0    | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.581  | -1.2   | 87    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.885  | -9.8   | 93    | 0.01     |
| 23 T  | Vinyl Acetate               | 250.000 | 261.461 | -4.6   | 89    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.731  | -5.5   | 91    | 0.01     |
| 25 T  | 2-Butanone                  | 250.000 | 245.128 | 1.9    | 85    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.767  | 0.5    | 87    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.394  | -6.8   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 82.426  | -64.9# | 142   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 328.233 | -31.3# | 114   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 62.355  | -24.7# | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.226  | 9.5    | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.729  | -5.5   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 71.366  | -42.7# | 121   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 44.015  | 12.0   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 38.784  | 22.4   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 38.384  | 23.2   | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 39.383  | 21.2   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.919  | 6.2    | 106   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.110  | 1.8    | 111   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.628  | 2.7    | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.002  | -0.0   | 114   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.992  | 2.0    | 112   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.670  | -3.3   | 117   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.289  | -2.6#  | 115   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 50.069  | -0.1   | 113   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.237  | -4.5   | 118   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 52.464  | -4.9   | 116   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 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 | 970.468 | 3.0   | 111   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 44.346  | 11.3  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 240.905 | 3.6   | 107   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 42.170  | 15.7# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 42.270  | 15.5  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.427  | 1.1   | 109   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 43.198  | 13.6  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 42.649  | 14.7  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 41.859  | 16.3  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 228.951 | 8.4   | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 204.327 | 18.3  | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 45.178  | 9.6   | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 43.420  | 13.2  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.711  | -11.4 | 120   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.969  | 6.1   | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.209  | -4.4  | 117   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.162  | -10.3 | 124   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.068  | -4.1# | 116   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.065 | -4.1  | 115   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.638  | -3.3  | 115   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.204  | -6.4  | 116   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.989  | -10.0 | 122   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.458  | -8.9  | 115   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.711  | -7.4  | 114   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.457  | 1.1   | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 59.766  | -19.5 | 128   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 55.154  | -10.3 | 117   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.035  | -6.1  | 112   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.432  | -6.9  | 114   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.302  | -8.6  | 114   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.439  | -6.9  | 115   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.590  | -7.2  | 113   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.862  | -9.7  | 113   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.375  | -6.8  | 112   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.383  | -6.8  | 112   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.258  | -6.5  | 111   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.175  | -6.3  | 113   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.197  | -4.4  | 112   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.771  | -3.5  | 107   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 53.162  | -6.3  | 113   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 53.074  | -6.1  | 113   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 50.431  | -0.9  | 114   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.353  | 3.3   | 104   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.202  | 7.6   | 97    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 42.793  | 14.4  | 90    | 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 | 40.367 | 19.3 | 89    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6