

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112224\  
 Data File : VY020401.D  
 Acq On : 22 Nov 2024 09:40  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 22 23:55:38 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111924S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 20 04:38:24 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   | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 57.632  | -15.3 | 108   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.999  | 14.0  | 71    | 0.01     |
| 4 C   | Vinyl Chloride              | 50.000  | 42.313  | 15.4# | 79    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.373  | 7.3   | 86    | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 42.720  | 14.6  | 79    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.420  | -6.8  | 93    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 46.950  | 6.1   | 79    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.095  | -0.2  | 82    | 0.02     |
| 10 T  | Methyl Iodide               | 50.000  | 46.804  | 6.4   | 73    | 0.01     |
| 11 T  | Tert butyl alcohol          | 250.000 | 206.445 | 17.4  | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.620  | 0.8#  | 81    | 0.01     |
| 13 T  | Acrolein                    | 250.000 | 279.300 | -11.7 | 96    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.838  | 8.3   | 90    | 0.01     |
| 15 T  | Acrylonitrile               | 250.000 | 231.671 | 7.3   | 85    | 0.01     |
| 16 T  | Acetone                     | 250.000 | 260.251 | -4.1  | 79    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.736  | 4.5   | 74    | 0.01     |
| 18 T  | Methyl Acetate              | 50.000  | 44.167  | 11.7  | 82    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.615  | 4.8   | 85    | 0.02     |
| 20 T  | Methylene Chloride          | 50.000  | 46.837  | 6.3   | 84    | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.292  | 3.4   | 85    | 0.01     |
| 22 T  | Diisopropyl ether           | 50.000  | 44.145  | 11.7  | 80    | 0.01     |
| 23 T  | Vinyl Acetate               | 250.000 | 223.766 | 10.5  | 79    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.326  | 7.3   | 84    | 0.01     |
| 25 T  | 2-Butanone                  | 250.000 | 252.766 | -1.1  | 88    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.394  | -2.8  | 91    | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.941  | 2.1   | 83    | 0.01     |
| 28 T  | Bromochloromethane          | 50.000  | 43.770  | 12.5  | 74    | 0.02     |
| 29 T  | Tetrahydrofuran             | 250.000 | 231.474 | 7.4   | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.839  | 4.3#  | 77    | 0.01     |
| 31 T  | Cyclohexane                 | 50.000  | 47.499  | 5.0   | 86    | 0.01     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.493  | -5.0  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.929  | -1.9  | 81    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 75    | 0.01     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.908  | -5.8  | 79    | 0.01     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.755  | -7.5  | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.883  | 0.2   | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 59.376  | -18.8 | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 55.291  | -10.6 | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.101  | -4.2  | 83    | 0.01     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.391  | -2.8  | 84    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.343  | -4.7  | 84    | 0.01     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.983  | -2.0  | 79    | 0.01     |
| 44 TM | Trichloroethene             | 50.000  | 53.358  | -6.7  | 85    | 0.01     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.457  | -0.9# | 81    | 0.01     |
| 46 T  | Dibromomethane              | 50.000  | 50.993  | -2.0  | 78    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.211  | -2.4  | 76    | 0.01     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.039  | -0.1  | 78    | 0.01     |

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 ALS Vial : 2 Sample Multiplier: 1

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 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 | 1022.544 | -2.3  | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.558   | -7.1  | 73    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 249.694  | 0.1   | 67    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.578   | -5.2# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.749   | -1.5  | 78    | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.933   | -5.9  | 82    | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.813   | 2.4   | 78    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.243   | -0.5  | 74    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.698   | 0.6   | 75    | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 255.368  | -2.1  | 81    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 266.955  | -6.8  | 74    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.426   | -4.9  | 77    | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.955   | 2.1   | 73    | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.394   | -8.8  | 77    | 0.01     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 71    | 0.01     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.118   | -8.2  | 83    | 0.01     |
| 65 PM | Chlorobenzene               | 50.000   | 51.662   | -3.3  | 71    | 0.01     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.008   | -8.0  | 77    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.514   | -7.0# | 76    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.567  | -7.6  | 80    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.000   | -6.0  | 79    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.891   | -7.8  | 79    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.040   | -10.1 | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 77    | 0.01     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.968   | -7.9  | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.124   | -0.2  | 72    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.878   | 0.2   | 72    | 0.01     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.344   | 3.3   | 69    | 0.01     |
| 77 T  | Bromobenzene                | 50.000   | 53.150   | -6.3  | 79    | 0.01     |
| 78 T  | n-propylbenzene             | 50.000   | 53.748   | -7.5  | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.705   | -3.4  | 80    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.577   | -7.2  | 83    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.374   | -4.7  | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.209   | -2.4  | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.760   | -7.5  | 81    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.520   | -5.0  | 80    | 0.01     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.183   | -0.4  | 72    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.747   | -7.5  | 79    | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.696   | -1.4  | 76    | 0.01     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.511   | -3.0  | 78    | 0.01     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.998   | -6.0  | 78    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 52.496   | -5.0  | 74    | 0.01     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.661   | -3.3  | 77    | 0.01     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 50.156   | -0.3  | 73    | 0.01     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 50.016   | -0.0  | 78    | 0.01     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 55.832   | -11.7 | 88    | 0.01     |
| 95 T  | Naphthalene                 | 50.000   | 50.372   | -0.7  | 74    | 0.01     |

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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 | 47.368 | 5.3  | 75    | 0.01     |

(#) = Out of Range

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