

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022222\  
 Data File : VY007571.D  
 Acq On : 22 Feb 2022 10:20  
 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: Feb 22 14:10:45 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 15:25:36 2022  
 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   | 73    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 57.987  | -16.0 | 94    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.497  | -3.0  | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.099  | -0.2# | 82    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.575  | -3.2  | 82    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.200  | 1.6   | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 58.798  | -17.6 | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.951  | 6.1   | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.325  | -2.7  | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.024  | -8.0  | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 246.399 | 1.4   | 83    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.283  | 1.4#  | 78    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 177.010 | 29.2# | 75    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 42.044  | 15.9  | 69    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 212.039 | 15.2  | 72    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 266.309 | -6.5  | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.424  | 7.2   | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.514  | 15.0  | 72    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 45.345  | 9.3   | 75    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.596  | 4.8   | 73    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.399  | 9.2   | 75    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 41.316  | 17.4  | 64    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 207.468 | 17.0  | 69    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 44.699  | 10.6  | 72    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 209.478 | 16.2  | 72    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.535  | -1.1  | 79    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 45.723  | 8.6   | 74    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 44.541  | 10.9  | 77    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 195.226 | 21.9  | 68    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.381  | 3.2#  | 76    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.228  | 5.5   | 70    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.401  | -4.8  | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 44.905  | 10.2  | 72    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 69    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.939  | 4.1   | 68    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.372  | 1.3   | 74    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.788  | 8.4   | 72    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 56.814  | -13.6 | 84    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.193  | -0.4  | 76    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.087  | 3.8   | 74    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.366  | 3.3   | 86    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.741  | -1.5  | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.898  | 8.2   | 72    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.556  | -5.1  | 78    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 46.293  | 7.4#  | 71    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 50.844  | -1.7  | 77    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 54.535  | -9.1  | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 46.857  | 6.3   | 77    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 15:25:36 2022  
 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 | 991.273 | 0.9   | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.518  | 7.0   | 66    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 245.329 | 1.9   | 78    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.996  | 0.0#  | 77    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.268  | -0.5  | 79    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.380  | 1.2   | 75    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.965  | 4.1   | 76    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.031  | 3.9   | 74    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.253  | 1.5   | 77    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 221.320 | 11.5  | 67    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 256.649 | -2.7  | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.446  | -8.9  | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.050  | -2.1  | 78    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 45.094  | 9.8   | 70    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 71    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.773  | -7.5  | 81    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.061  | -2.1  | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.386  | -8.8  | 84    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.415  | -4.8# | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.228 | -5.2  | 81    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.971  | -5.9  | 81    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.676  | -5.4  | 81    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.590  | -9.2  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 77    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.741  | -1.5  | 81    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 48.625  | 2.8   | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.422  | 3.2   | 82    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.228  | 9.5   | 82    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.436  | -2.9  | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.339  | -2.7  | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.632  | 0.7   | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.444  | -4.9  | 83    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.482  | 7.0   | 79    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.391  | -2.8  | 84    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.997  | -6.0  | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.388  | -6.8  | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.944  | -5.9  | 83    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.738  | -9.5  | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.192  | -6.4  | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.886  | -5.8  | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.736  | -7.5  | 83    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 56.435  | -12.9 | 86    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 53.040  | -6.1  | 86    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 57.622  | -15.2 | 94    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 54.428  | -8.9  | 85    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 59.025  | -18.0 | 91    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 53.983  | -8.0  | 88    | 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 | 54.651 | -9.3 | 88    | 0.00     |

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