

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061625\  
 Data File : VY022695.D  
 Acq On : 16 Jun 2025 08:31  
 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: Jun 17 05:49:41 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060225S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 10 15:26:14 2025  
 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   | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.527  | 10.9  | 80    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.135  | 1.7   | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 53.832  | -7.7# | 92    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.541  | 12.9  | 86    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.850  | -3.7  | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.791  | -3.6  | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.546  | -1.1  | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.527  | -1.1  | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.476  | -3.0  | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 244.231 | 2.3   | 82    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.348  | -2.7# | 86    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 134.507 | 46.2# | 46    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.695  | -1.4  | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 255.955 | -2.4  | 84    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 301.650 | -20.7 | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.880  | 4.2   | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.412  | 3.2   | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.072  | -0.1  | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.790  | 6.4   | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.138  | -2.3  | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.414  | -2.8  | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 248.368 | 0.7   | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.252  | -6.5  | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 267.970 | -7.2  | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.325  | -10.7 | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.525  | -5.0  | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.494  | 1.0   | 85    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 243.169 | 2.7   | 82    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.568  | -7.1# | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.765  | 6.5   | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.742  | -7.5  | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.716  | -1.4  | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.004  | -6.0  | 81    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.025  | -6.0  | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.193  | 1.6   | 76    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.143  | -8.3  | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.734  | -1.5  | 83    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.785  | -7.6  | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.263  | 1.5   | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.518  | -7.0  | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.490  | -1.0  | 81    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.378  | -8.8  | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.586  | -9.2# | 88    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 51.221  | -2.4  | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 56.070  | -12.1 | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 48.272  | 3.5   | 78    | 0.00     |

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 ALS Vial : 2 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 | 953.015 | 4.7   | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.532  | -5.1  | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 259.021 | -3.6  | 82    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.455  | -6.9# | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.075  | -6.2  | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.182  | -8.4  | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.659  | -5.3  | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.277  | -2.6  | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.110  | -6.2  | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 280.349 | -12.1 | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 265.800 | -6.3  | 84    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.703  | -7.4  | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.207  | -6.4  | 87    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.786  | -3.6  | 82    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 59.140  | -18.3 | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.982  | -6.0  | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.599  | -7.2  | 87    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.780  | -7.6# | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.748 | -7.7  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.302  | -6.6  | 88    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.948  | -7.9  | 87    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.026  | -6.1  | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.555  | -7.1  | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.251  | -0.5  | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.254  | 1.5   | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.133  | 3.7   | 72    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.278  | -4.6  | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.995  | -8.0  | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.402  | -6.8  | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.859  | -7.7  | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.593  | 4.8   | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.959  | -7.9  | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.513  | -7.0  | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.979  | -8.0  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.077  | -8.2  | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.561  | -7.1  | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.045  | -8.1  | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.164  | -6.3  | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.225  | -8.5  | 88    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 55.059  | -10.1 | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 53.200  | -6.4  | 87    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 52.084  | -4.2  | 80    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 51.592  | -3.2  | 85    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 51.735  | -3.5  | 86    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 49.227  | 1.5   | 78    | 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 | 50.769 | -1.5 | 83    | 0.00     |

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