

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051325\  
 Data File : VY022233.D  
 Acq On : 13 May 2025 10:37  
 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: May 14 04:32:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 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    | 75    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.191  | 7.6    | 75    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.464  | -0.9   | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.923  | -1.8#  | 78    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.975  | 8.0    | 74    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.572  | -1.1   | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.377  | 1.2    | 76    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.527  | -1.1   | 78    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.616  | -1.2   | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.908  | -1.8   | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 275.763 | -10.3  | 80    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.836  | 0.3#   | 79    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 56.049  | 77.6#  | 18    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.603  | -5.2   | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 268.633 | -7.5   | 81    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 335.876 | -34.4# | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.015  | 8.0    | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 58.887  | -17.8  | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.023  | -8.0   | 80    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.570  | 4.9    | 78    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.995  | 0.0    | 79    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.810  | -11.6  | 84    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 277.481 | -11.0  | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.599  | -5.2   | 83    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 282.557 | -13.0  | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 54.749  | -9.5   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.621  | -3.2   | 79    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.664  | -5.3   | 80    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 280.124 | -12.0  | 79    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.263  | -4.5#  | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.224  | -0.4   | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.848  | -5.7   | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.297  | -0.6   | 75    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 72    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.327  | -4.7   | 76    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.620  | -9.2   | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 56.205  | -12.4  | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.788  | -9.6   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.473  | -8.9   | 80    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.851  | -7.7   | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 61.728  | -23.5  | 85    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.238  | -10.5  | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 57.640  | -15.3  | 82    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.717  | -5.4   | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.720  | -11.4# | 83    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 54.033  | -8.1   | 80    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 55.428  | -10.9  | 82    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 59.470  | -18.9  | 81    | 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  
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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 | 1118.312 | -11.8  | 82    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.990   | -4.0   | 73    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 301.531  | -20.6  | 82    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.610   | -11.2# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.446   | -12.9  | 81    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.739   | -11.5  | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.172   | -12.3  | 81    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 59.024   | -18.0  | 79    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.595   | -11.2  | 81    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 296.589  | -18.6  | 77    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 310.726  | -24.3  | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.378   | -10.8  | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.693   | -9.4   | 79    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.146   | -6.3   | 76    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 72    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.709   | -1.4   | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.250   | -8.5   | 80    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.828   | -11.7  | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 56.464   | -12.9# | 81    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 115.406  | -15.4  | 82    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.887   | -15.8  | 81    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 58.562   | -17.1  | 81    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.018   | -12.0  | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 73    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 56.239   | -12.5  | 83    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 56.669   | -13.3  | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 56.379   | -12.8  | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.466   | -4.9   | 81    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.820   | -7.6   | 80    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 56.364   | -12.7  | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 55.676   | -11.4  | 83    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 56.348   | -12.7  | 81    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.209   | -10.4  | 81    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.682   | -11.4  | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 57.383   | -14.8  | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 57.268   | -14.5  | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 57.421   | -14.8  | 84    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 57.179   | -14.4  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.889   | -7.8   | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.917   | -7.8   | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 57.172   | -14.3  | 84    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 53.714   | -7.4   | 83    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 55.006   | -10.0  | 83    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 54.385   | -8.8   | 85    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 54.965   | -9.9   | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 54.694   | -9.4   | 87    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 56.298   | -12.6  | 81    | 0.00     |

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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) |
|------|------------------------|--------|--------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 55.371 | -10.7 | 84    | 0.00     |

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