

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052025\  
 Data File : VY022352.D  
 Acq On : 20 May 2025 19:34  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 21 01:57:21 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051525S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 16 01:42:09 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    | 58    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.451  | 13.1   | 52    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 60.463  | -20.9  | 74    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 65.347  | -30.7# | 77    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 73.093  | -46.2# | 97    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 75.888  | -51.8# | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 59.600  | -19.2  | 71    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.224  | -0.4   | 59    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.983  | 2.0    | 57    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.279  | -6.6   | 56    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 219.118 | 12.4   | 55    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.063  | 1.9#   | 57    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 116.335 | 53.5#  | 29    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.305  | 11.4   | 51    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 236.743 | 5.3    | 57    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 202.572 | 19.0   | 52    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.640  | 4.7    | 55    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 65.325  | -30.7# | 82    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.840  | 0.3    | 59    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.894  | 8.2    | 59    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.600  | 0.8    | 58    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 46.551  | 6.9    | 54    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 203.532 | 18.6   | 48    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.233  | 1.5    | 57    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 212.914 | 14.8   | 53    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.440  | 9.1    | 53    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.151  | -2.3   | 59    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.893  | -3.8   | 60    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 225.623 | 9.8    | 54    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.256  | -4.5#  | 60    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.449  | 13.1   | 53    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.273  | 1.5    | 58    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.927  | -1.9   | 60    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 61    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.262  | -4.5   | 63    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.575  | 6.8    | 56    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 42.028  | 15.9   | 52    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.139  | 5.7    | 57    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.910  | 10.2   | 54    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.296  | 1.4    | 59    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 42.823  | 14.4   | 52    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.969  | 6.1    | 57    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 42.697  | 14.6   | 53    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.470  | 3.1    | 58    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.963  | 4.1#   | 58    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.404  | 3.2    | 60    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.782  | 0.4    | 59    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 41.341  | 17.3   | 51    | 0.00     |

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 ALS Vial : 27 Sample Multiplier: 1

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 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Fri May 16 01:42:09 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) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 913.074 | 8.7  | 58    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.921  | -1.8 | 62    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 221.192 | 11.5 | 54    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.582  | 2.8# | 58    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.821  | 8.4  | 55    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.342  | 5.3  | 57    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.386  | 1.2  | 61    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 45.260  | 9.5  | 55    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.267  | 1.5  | 59    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 264.184 | -5.7 | 60    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 211.859 | 15.3 | 53    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.387  | 1.2  | 59    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.716  | 0.6  | 61    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.015  | 4.0  | 59    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 62    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.289  | 5.4  | 57    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.589  | 2.8  | 58    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.149  | 3.7  | 58    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.939  | 4.1# | 57    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 95.672  | 4.3  | 57    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.636  | 4.7  | 58    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.210  | 3.6  | 58    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 45.735  | 8.5  | 56    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 60    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.050  | 3.9  | 57    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 41.596  | 16.8 | 51    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.996  | 2.0  | 60    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.524  | 7.0  | 56    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.205  | 3.6  | 57    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.921  | 4.2  | 56    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.331  | 5.3  | 56    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.447  | 5.1  | 56    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.713  | 14.6 | 54    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.840  | 6.3  | 55    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.799  | 4.4  | 56    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.897  | 4.2  | 56    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.730  | 4.5  | 55    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.159  | 5.7  | 55    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.124  | 5.8  | 56    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.399  | 5.2  | 56    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.389  | 7.2  | 53    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 46.849  | 6.3  | 55    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 48.150  | 3.7  | 57    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.219  | 9.6  | 56    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 45.087  | 9.8  | 53    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 41.483  | 17.0 | 49    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 45.949  | 8.1  | 55    | 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 | 44.159 | 11.7 | 52    | 0.00     |

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