

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042825\  
 Data File : VY022021.D  
 Acq On : 28 Apr 2025 09:59  
 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: Apr 29 03:51:56 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   | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.991  | 14.0  | 92    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.163  | 9.7   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.482  | 9.0#  | 92    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.794  | 16.4  | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.558  | 8.9   | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.316  | 9.4   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 43.651  | 12.7  | 89    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 44.780  | 10.4  | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.967  | 6.1   | 91    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 223.960 | 10.4  | 86    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 44.447  | 11.1# | 92    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 138.423 | 44.6# | 58    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.547  | 10.9  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 229.455 | 8.2   | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 238.658 | 4.5   | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.091  | 9.8   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.156  | -10.3 | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.559  | 6.9   | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 42.205  | 15.6  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.106  | 7.8   | 95    | 0.01     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.287  | 5.4   | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 229.383 | 8.2   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.472  | 9.1   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 227.698 | 8.9   | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.744  | 8.5   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 45.895  | 8.2   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.794  | 6.4   | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 244.304 | 2.3   | 90    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 46.592  | 6.8#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.769  | 12.5  | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.308  | 7.4   | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.703  | 8.6   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.299  | 1.4   | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.257  | 1.5   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.244  | 1.5   | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.250  | -0.5  | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.952  | 4.1   | 90    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.146  | 1.7   | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.745  | -1.5  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.487  | 1.0   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.136  | 3.7   | 88    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.422  | 3.2   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.124  | 1.8#  | 93    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 49.917  | 0.2   | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 50.140  | -0.3  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 51.025  | -2.0  | 89    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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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 | 990.448 | 1.0   | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.941  | 0.1   | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 262.978 | -5.2  | 91    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.774  | -1.5# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.300  | -0.6  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.030  | -0.1  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.210  | -2.4  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.883  | -1.8  | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.313  | -0.6  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 274.205 | -9.7  | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 266.294 | -6.5  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.661  | -3.3  | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.898  | -3.8  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.288  | -0.6  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.844  | 2.3   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.139  | 3.7   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.785  | 0.4   | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.296  | 1.4#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.477 | -1.5  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.257  | -0.5  | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.691  | -3.4  | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.502  | -3.0  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.321  | 3.4   | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.653  | 8.7   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.921  | 4.2   | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.871  | 4.3   | 98    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.026  | 3.9   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.417  | 3.2   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.359  | 5.3   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.434  | 1.1   | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.220  | 7.6   | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.113  | 3.8   | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.962  | 4.1   | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.692  | 0.6   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.338  | 3.3   | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.118  | 1.8   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.150  | 3.7   | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.284  | 5.4   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.376  | 5.2   | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 46.466  | 7.1   | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 48.011  | 4.0   | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 48.111  | 3.8   | 99    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.066  | 3.9   | 96    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 47.878  | 4.2   | 101   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 49.688  | 0.6   | 94    | 0.00     |

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ALS Vial : 2 Sample Multiplier: 1

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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 | 49.408 | 1.2  | 99    | 0.00     |

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