

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041725\  
 Data File : VY021900.D  
 Acq On : 17 Apr 2025 09:00  
 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 18 03:52:53 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032725S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 28 02:30:29 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   | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.269  | 13.5  | 82    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 41.884  | 16.2  | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 42.944  | 14.1# | 82    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.600  | 14.8  | 87    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.440  | 11.1  | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.688  | 6.6   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.305  | 9.4   | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.650  | 2.7   | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.647  | -3.3  | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 208.665 | 16.5  | 81    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.793  | 6.4#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 41.912  | 83.2# | 16    | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 45.834  | 8.3   | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 231.922 | 7.2   | 85    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 222.438 | 11.0  | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.534  | 12.9  | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.386  | -18.8 | 114   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.589  | 4.8   | 87    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.135  | -0.3  | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.855  | 4.3   | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.722  | 2.6   | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 227.225 | 9.1   | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.888  | 4.2   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 227.758 | 8.9   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.651  | 2.7   | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.175  | 1.7   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.649  | 4.7   | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 225.501 | 9.8   | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.355  | 3.3#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.079  | 9.8   | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.778  | 2.4   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.141  | 9.7   | 83    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.068  | -0.1  | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.739  | -1.5  | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.241  | 5.5   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.469  | -4.9  | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.292  | -4.6  | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.964  | -1.9  | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 44.155  | 11.7  | 71    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.666  | 0.7   | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.841  | 4.3   | 83    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.456  | -4.9  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.162  | -2.3# | 90    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 51.013  | -2.0  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.276  | -4.6  | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 51.114  | -2.2  | 87    | 0.00     |

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 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 : Fri Mar 28 02:30:29 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 | 939.369 | 6.1   | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.883  | 0.2   | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 253.312 | -1.3  | 86    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.175  | -6.3# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.463  | -2.9  | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.045  | -2.1  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.493  | -5.0  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.232  | -8.5  | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.599  | -3.2  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 285.843 | -14.3 | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 256.056 | -2.4  | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.196  | -6.4  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.119  | -4.2  | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.253  | -2.5  | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.745  | -11.5 | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.460  | -2.9  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.630  | -5.3  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.046  | -6.1# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.547 | -6.5  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.777  | -7.6  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.154  | -10.3 | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.364  | -4.7  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.149  | -4.3  | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.975  | 4.0   | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.109  | 5.8   | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.660  | 10.7  | 81    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.229  | -2.5  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.593  | -5.2  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.402  | -2.8  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.897  | -5.8  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.682  | 4.6   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.126  | -2.3  | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.766  | -7.5  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.458  | -6.9  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.625  | -7.2  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.886  | -9.8  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.973  | -3.9  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.763  | -3.5  | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.913  | -9.8  | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 51.249  | -2.5  | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 52.308  | -4.6  | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 48.787  | 2.4   | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 57.444  | -14.9 | 99    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 57.026  | -14.1 | 103   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 58.107  | -16.2 | 97    | 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 | 58.584 | -17.2 | 102   | 0.00     |

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