

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061724\  
 Data File : VY018605.D  
 Acq On : 17 Jun 2024 12:07  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 18 01:20:59 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y061324S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 14 07:08:24 2024  
 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 54.139  | -8.3  | 95    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.675  | -1.3  | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.460  | -0.9# | 83    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.222  | 9.6   | 79    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.739  | 2.5   | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.433  | -4.9  | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.894  | 0.2   | 80    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.198  | -6.4  | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.487  | 7.0   | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 115.609 | 53.8# | 61    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.663  | -1.3# | 84    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 241.794 | 3.3   | 73    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.821  | -5.6  | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 241.511 | 3.4   | 78    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 292.628 | -17.1 | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.909  | 2.2   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.412  | -6.8  | 79    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.669  | 4.7   | 79    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 55.618  | -11.2 | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.351  | 1.3   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.069  | -2.1  | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 223.383 | 10.6  | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.122  | -0.2  | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 252.888 | -1.2  | 79    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.616  | -1.2  | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.272  | 3.5   | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.858  | -9.7  | 130   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 249.092 | 0.4   | 78    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.821  | 4.4#  | 80    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.226  | -4.5  | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.860  | 2.3   | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 57.186  | -14.4 | 111   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 56.778  | -13.6 | 109   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.821  | 0.4   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.727  | 0.5   | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.642  | 0.7   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.528  | -7.1  | 86    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.399  | 1.2   | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.018  | -12.0 | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.250  | 5.5   | 77    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.185  | -2.4  | 80    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.570  | 4.9   | 78    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.449  | -0.9# | 83    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 46.433  | 7.1   | 75    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.657  | 0.7   | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 51.195  | -2.4  | 78    | 0.00     |

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 ALS Vial : 3 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 | 919.525 | 8.0   | 73    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 58.674  | -17.3 | 112   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 245.771 | 1.7   | 75    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.822  | 0.4#  | 80    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.651  | -5.3  | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.776  | -1.6  | 81    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 46.602  | 6.8   | 77    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.389  | -0.8  | 75    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.910  | 4.2   | 77    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 211.518 | 15.4  | 74    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 256.891 | -2.8  | 78    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.655  | 0.7   | 79    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.358  | 3.3   | 75    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 60.301  | -20.6 | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.075  | 3.8   | 79    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.521  | 1.0   | 80    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.586  | 0.8   | 80    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.148  | -2.3# | 82    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.265 | -1.3  | 79    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.149  | -0.3  | 79    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.531  | -3.1  | 79    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.851  | 0.3   | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.436  | 3.1   | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.237  | -4.5  | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.021  | 6.0   | 76    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 40.234  | 19.5  | 62    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.592  | 6.8   | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.150  | -0.3  | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.530  | 2.9   | 80    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.337  | -0.7  | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.675  | -11.3 | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.715  | 0.6   | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.369  | 3.3   | 82    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.893  | 0.2   | 81    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.626  | -3.3  | 84    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.661  | -1.3  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.643  | 4.7   | 80    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.069  | 5.9   | 79    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.273  | -6.5  | 87    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 52.705  | -5.4  | 84    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.620  | 4.8   | 78    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 44.184  | 11.6  | 70    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 50.602  | -1.2  | 84    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 51.600  | -3.2  | 88    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 50.167  | -0.3  | 78    | 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 | 49.109 | 1.8  | 82    | 0.00     |

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