

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031924\  
 Data File : VY017717.D  
 Acq On : 19 Mar 2024 19:16  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 20 03:05:59 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 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   | 82    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.722  | 12.6  | 73    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.575  | 12.8  | 73    | 0.01     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.177  | 11.6# | 73    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.230  | 7.5   | 78    | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 48.815  | 2.4   | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 41.628  | 16.7  | 68    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 49.037  | 1.9   | 76    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.021  | 8.0   | 74    | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 50.329  | -0.7  | 75    | 0.01     |
| 11 T  | Tert butyl alcohol          | 250.000 | 190.769 | 23.7  | 68    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.824  | 4.4#  | 77    | 0.02     |
| 13 T  | Acrolein                    | 250.000 | 144.774 | 42.1# | 47    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.818  | 0.4   | 77    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 261.680 | -4.7  | 80    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 225.591 | 9.8   | 71    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.652  | 2.7   | 78    | 0.01     |
| 18 T  | Methyl Acetate              | 50.000  | 55.688  | -11.4 | 82    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.367  | -2.7  | 77    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.228  | -6.5  | 81    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.949  | 0.1   | 78    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.134  | -4.3  | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 259.134 | -3.7  | 77    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.726  | -1.5  | 80    | 0.01     |
| 25 T  | 2-Butanone                  | 250.000 | 245.012 | 2.0   | 74    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.949  | 6.1   | 76    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.780  | -1.6  | 79    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.017  | 10.0  | 85    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 268.199 | -7.3  | 79    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.969  | -1.9# | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.638  | 6.7   | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.291  | 3.4   | 77    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.318  | 5.4   | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 44.042  | 11.9  | 78    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.044  | 7.9   | 77    | 0.01     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.955  | 6.1   | 77    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 45.939  | 8.1   | 76    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.804  | 4.4   | 77    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.643  | 4.7   | 79    | 0.01     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.798  | -5.6  | 81    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.865  | 4.3   | 78    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.102  | 1.8   | 78    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.626  | 6.7   | 78    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.848  | 4.3#  | 79    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 50.141  | -0.3  | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 48.278  | 3.4   | 79    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.642  | -1.3  | 79    | 0.00     |

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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 | 968.926 | 3.1   | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.929  | 4.1   | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 251.692 | -0.7  | 79    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.095  | 3.8#  | 79    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.925  | 2.2   | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.681  | 2.6   | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.752  | 4.5   | 79    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.275  | 5.5   | 78    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.284  | 1.4   | 80    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 295.056 | -18.0 | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 250.025 | -0.0  | 76    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.512  | 1.0   | 80    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.504  | 1.0   | 80    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.718  | 0.6   | 81    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.436  | 11.1  | 77    | 0.01     |
| 65 PM | Chlorobenzene               | 50.000   | 46.939  | 6.1   | 80    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.038  | 7.9   | 78    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.831  | 4.3#  | 79    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 94.296  | 5.7   | 78    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.960  | 2.1   | 79    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.841  | 2.3   | 78    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.781  | 4.4   | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 85    | 0.01     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.802  | 2.4   | 78    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.674  | -1.3  | 77    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.060  | -4.1  | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.873  | 4.3   | 80    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.693  | 4.6   | 78    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.579  | 2.8   | 78    | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.392  | 5.2   | 77    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.231  | 1.5   | 78    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.796  | 0.4   | 79    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.141  | 5.7   | 77    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.776  | 0.4   | 79    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.042  | 1.9   | 78    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.502  | 3.0   | 77    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.770  | 2.5   | 77    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.686  | 6.6   | 76    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.453  | 7.1   | 76    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.412  | 3.2   | 75    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 47.468  | 5.1   | 78    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.113  | 5.8   | 75    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 48.319  | 3.4   | 79    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.597  | 2.8   | 75    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 42.983  | 14.0  | 71    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 47.835  | 4.3   | 80    | 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 | 47.289 | 5.4  | 73    | 0.00     |

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