

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101823\  
 Data File : VY016013.D  
 Acq On : 18 Oct 2023 10:28  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Oct 18 10:39:37 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101223S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 13 13:13:02 2023  
 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    | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.412  | 5.2    | 91    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 37.055  | 25.9#  | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.167  | -2.3#  | 101   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 65.467  | -30.9# | 122   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.046  | -4.1   | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.073  | 9.9    | 89    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 42.837  | 14.3   | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.059  | 7.9    | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 55.982  | -12.0  | 104   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 43.115  | 82.8#  | 24    | -0.05    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.044  | 7.9#   | 92    | 0.01     |
| 13 T  | Acrolein                    | 250.000 | 140.649 | 43.7#  | 51    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.177  | 9.6    | 88    | 0.01     |
| 15 T  | Acrylonitrile               | 250.000 | 130.556 | 47.8#  | 51    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 128.212 | 48.7#  | 44    | -0.02    |
| 17 T  | Carbon Disulfide            | 50.000  | 45.016  | 10.0   | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 25.800  | 48.4#  | 51    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 43.477  | 13.0   | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 41.257  | 17.5   | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.857  | 6.3    | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.283  | 5.4    | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 215.006 | 14.0   | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.881  | 6.2    | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 118.512 | 52.6#  | 46    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.467  | -2.9   | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.789  | 4.4    | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 42.174  | 15.7   | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 104.702 | 58.1#  | 41    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.005  | 4.0#   | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.875  | 14.2   | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.046  | 3.9    | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 44.983  | 10.0   | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.261  | 1.5    | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.309  | 3.4    | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 19.699  | 60.6#  | 38    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.321  | 1.4    | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.196  | 7.6    | 92    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.756  | 4.5    | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 80.672  | -61.3# | 160   | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 45.912  | 8.2    | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 33.569  | 32.9#  | 64    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 42.991  | 14.0   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 46.889  | 6.2#   | 93    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 41.926  | 16.1   | 80    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 47.368  | 5.3    | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 35.530  | 28.9#  | 67    | 0.00     |

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 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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 | 436.357 | 56.4#  | 45    | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 48.079  | 3.8    | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 125.556 | 49.8#  | 48    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.190  | 3.6#   | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.484  | 9.0    | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 46.688  | 6.6    | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 40.885  | 18.2   | 82    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 37.769  | 24.5   | 72    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 41.008  | 18.0   | 81    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 184.887 | 26.0#  | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 111.794 | 55.3#  | 43    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 43.755  | 12.5   | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 37.739  | 24.5   | 74    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.688  | 4.6    | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 39.229  | 21.5   | 80    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.467  | 3.1    | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.696  | 0.6    | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.734  | 0.5#   | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.513 | -0.5   | 96    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.856  | 0.3    | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.107  | -0.2   | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 39.247  | 21.5   | 75    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.936  | 0.1    | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 36.834  | 26.3#  | 68    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 37.053  | 25.9#  | 71    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.771  | -5.5   | 115   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.301  | 5.4    | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.496  | 1.0    | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.071  | 1.9    | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.306  | -0.6   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 33.694  | 32.6#  | 62    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.229  | -0.5   | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.291  | -0.6   | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.538  | 0.9    | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.485  | 1.0    | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.824  | 0.4    | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.814  | 2.4    | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.760  | 4.5    | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.726  | 0.5    | 95    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.481  | 1.0    | 97    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.127  | 5.7    | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 23.121  | 53.8#  | 46    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 0.000   | 100.0# | 0     | -15.01#  |
| 94 T  | Hexachlorobutadiene         | 50.000   | 0.000   | 100.0# | 0     | -15.12#  |
| 95 T  | Naphthalene                 | 50.000   | 0.000   | 100.0# | 0     | -15.24#  |

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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 | 0.000 | 100.0# | 0     | -15.43#  |

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