

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062123\  
 Data File : VY014350.D  
 Acq On : 21 Jun 2023 20:48  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 22 01:59:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 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    | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 34.738  | 30.5#  | 73    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 29.113  | 41.8#  | 63    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 31.716  | 36.6#  | 67    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 32.015  | 36.0#  | 75    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 32.113  | 35.8#  | 71    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 38.835  | 22.3   | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 39.107  | 21.8   | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 39.135  | 21.7   | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 28.216  | 43.6#  | 56    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 279.965 | -12.0  | 124   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 35.510  | 29.0#  | 75    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 0.000   | 100.0# | 0     | -3.73#   |
| 14 T  | Allyl chloride              | 50.000  | 34.485  | 31.0#  | 72    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 247.920 | 0.8    | 106   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 196.729 | 21.3   | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 29.518  | 41.0#  | 63    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 67.060  | -34.1# | 152   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 44.318  | 11.4   | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 37.721  | 24.6   | 78    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 37.237  | 25.5#  | 76    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 41.416  | 17.2   | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 158.388 | 36.6#  | 65    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 40.108  | 19.8   | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 246.267 | 1.5    | 112   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 28.972  | 42.1#  | 61    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 40.632  | 18.7   | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 26.819  | 46.4#  | 59    | 0.01     |
| 29 T  | Tetrahydrofuran             | 250.000 | 262.315 | -4.9   | 116   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 42.700  | 14.6#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 36.568  | 26.9#  | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 42.339  | 15.3   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 41.676  | 16.6   | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 41.428  | 17.1   | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 38.476  | 23.0   | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 41.916  | 16.2   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 42.104  | 15.8   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 37.903  | 24.2   | 77    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 39.410  | 21.2   | 84    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 41.216  | 17.6   | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 41.517  | 17.0   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 43.475  | 13.0   | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 39.941  | 20.1   | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 40.242  | 19.5#  | 86    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 42.451  | 15.1   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 43.002  | 14.0   | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 47.235  | 5.5    | 102   | 0.00     |

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 MSVOA\_Y  
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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 | 1080.227 | -8.0  | 114   | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 40.798   | 18.4  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 254.300  | -1.7  | 111   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 40.972   | 18.1# | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 38.059   | 23.9  | 81    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 36.912   | 26.2# | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 44.965   | 10.1  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 45.818   | 8.4   | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 43.585   | 12.8  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 192.401  | 23.0  | 81    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 241.124  | 3.6   | 106   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 44.474   | 11.1  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 43.732   | 12.5  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 42.222   | 15.6  | 95    | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.112   | 1.8   | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 40.612   | 18.8  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 42.953   | 14.1  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 41.622   | 16.8# | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 82.934   | 17.1  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 42.469   | 15.1  | 90    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 43.357   | 13.3  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.070   | 3.9   | 105   | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 109   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 43.734   | 12.5  | 90    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 31.609   | 36.8# | 67    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.582   | 4.8   | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.508   | 13.0  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 43.015   | 14.0  | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 43.388   | 13.2  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 43.393   | 13.2  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 43.782   | 12.4  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 37.637   | 24.7  | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 42.648   | 14.7  | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 45.507   | 9.0   | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 43.941   | 12.1  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 45.293   | 9.4   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 41.642   | 16.7  | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 42.947   | 14.1  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 42.462   | 15.1  | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 42.290   | 15.4  | 88    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 44.745   | 10.5  | 96    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 45.119   | 9.8   | 97    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 50.928   | -1.9  | 120   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 42.392   | 15.2  | 91    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 42.897   | 14.2  | 91    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 49.348   | 1.3   | 108   | 0.00     |

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ALS Vial : 26 Sample Multiplier: 1

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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 | 44.041 | 11.9 | 98    | 0.00     |

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