

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091823\  
 Data File : VY015634.D  
 Acq On : 18 Sep 2023 22:50  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 19 02:10:15 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y082923S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 31 20:01:47 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    | 85    | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 32.811  | 34.4#  | 53    | 0.01     |
| 3 P   | Chloromethane               | 50.000  | 41.862  | 16.3   | 67    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 39.947  | 20.1#  | 64    | 0.01     |
| 5 T   | Bromomethane                | 50.000  | 46.223  | 7.6    | 75    | 0.02     |
| 6 T   | Chloroethane                | 50.000  | 45.044  | 9.9    | 74    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 42.656  | 14.7   | 70    | 0.02     |
| 8 T   | Diethyl Ether               | 50.000  | 54.072  | -8.1   | 86    | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.300  | 7.4    | 75    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 44.811  | 10.4   | 68    | 0.02     |
| 11 T  | Tert butyl alcohol          | 250.000 | 205.847 | 17.7   | 71    | 0.03     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.086  | 5.8#   | 77    | 0.02     |
| 13 T  | Acrolein                    | 250.000 | 155.082 | 38.0#  | 44    | 0.02     |
| 14 T  | Allyl chloride              | 50.000  | 52.234  | -4.5   | 83    | 0.01     |
| 15 T  | Acrylonitrile               | 250.000 | 295.012 | -18.0  | 90    | 0.01     |
| 16 T  | Acetone                     | 250.000 | 240.121 | 4.0    | 66    | 0.02     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.356  | 9.3    | 73    | 0.01     |
| 18 T  | Methyl Acetate              | 50.000  | 63.693  | -27.4# | 97    | 0.02     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.794  | -7.6   | 84    | 0.02     |
| 20 T  | Methylene Chloride          | 50.000  | 50.106  | -0.2   | 84    | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.719  | 0.6    | 80    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.446  | -10.9  | 89    | 0.02     |
| 23 T  | Vinyl Acetate               | 250.000 | 269.963 | -8.0   | 84    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.556  | -5.1   | 87    | 0.02     |
| 25 T  | 2-Butanone                  | 250.000 | 275.222 | -10.1  | 79    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.821  | 8.4    | 75    | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.241  | -6.5   | 86    | 0.01     |
| 28 T  | Bromochloromethane          | 50.000  | 48.184  | 3.6    | 81    | 0.02     |
| 29 T  | Tetrahydrofuran             | 250.000 | 298.012 | -19.2  | 90    | 0.01     |
| 30 C  | Chloroform                  | 50.000  | 52.743  | -5.5#  | 86    | 0.02     |
| 31 T  | Cyclohexane                 | 50.000  | 44.417  | 11.2   | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.000  | 0.0    | 81    | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.759  | 6.5    | 79    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 89    | 0.01     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.519  | 3.0    | 84    | 0.01     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.676  | 6.6    | 80    | 0.01     |
| 37 T  | Ethyl Acetate               | 50.000  | 56.688  | -13.4  | 91    | 0.02     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.444  | 7.1    | 79    | 0.01     |
| 39 T  | Methylcyclohexane           | 50.000  | 43.589  | 12.8   | 74    | 0.01     |
| 40 TM | Benzene                     | 50.000  | 50.176  | -0.4   | 85    | 0.02     |
| 41 T  | Methacrylonitrile           | 50.000  | 60.606  | -21.2  | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.773  | 0.5    | 83    | 0.01     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.754  | -9.5   | 88    | 0.01     |
| 44 TM | Trichloroethene             | 50.000  | 48.381  | 3.2    | 83    | 0.01     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.789  | -5.6#  | 89    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 51.544  | -3.1   | 86    | 0.02     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.663  | -3.3   | 86    | 0.01     |
| 48 T  | Methyl methacrylate         | 50.000  | 54.339  | -8.7   | 86    | 0.01     |

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 ALS Vial : 27 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 | 1099.108 | -9.9  | 88    | 0.02     |
| 50 S  | Toluene-d8                  | 50.000   | 43.523   | 13.0  | 78    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 289.215  | -15.7 | 91    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.598   | 0.8#  | 83    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.366   | -4.7  | 85    | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.058   | -4.1  | 86    | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.796   | -7.6  | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.529   | -11.1 | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.782   | -7.6  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 171.584  | 31.4# | 59    | 0.01     |
| 59 T  | 2-Hexanone                  | 250.000  | 285.479  | -14.2 | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.410   | -6.8  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.825   | -7.7  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.488   | 7.0   | 82    | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.276   | -0.6  | 86    | 0.01     |
| 65 PM | Chlorobenzene               | 50.000   | 49.659   | 0.7   | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.215   | -2.4  | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.172   | 1.7#  | 85    | 0.01     |
| 68 T  | m/p-Xylenes                 | 100.000  | 96.879   | 3.1   | 84    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.937   | 2.1   | 84    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.590   | -1.2  | 85    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.393   | -8.8  | 87    | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.654   | 4.7   | 83    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.480   | -7.0  | 85    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.504   | -7.0  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.960   | -7.9  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.029   | 1.9   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.121   | 3.8   | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.453   | 3.1   | 83    | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.756   | 4.5   | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.630   | -5.3  | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.291   | 3.4   | 83    | 0.01     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.033   | 5.9   | 80    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.176   | 3.6   | 82    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.132   | 5.7   | 81    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.075   | 5.8   | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.128   | 3.7   | 83    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.016   | 4.0   | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.332   | 7.3   | 79    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.765   | 0.5   | 85    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.444   | 1.1   | 84    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 54.110   | -8.2  | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 47.741   | 4.5   | 80    | 0.01     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 43.325   | 13.3  | 77    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 52.981   | -6.0  | 84    | 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 | 49.768 | 0.5  | 84    | 0.00     |

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