

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\YY101723\  
 Data File : VY016011.D  
 Acq On : 17 Oct 2023 17:55  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 18 06:11:20 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   | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.253  | 9.5   | 84    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 34.652  | 30.7# | 74    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.478  | 3.0#  | 92    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 59.231  | -18.5 | 106   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.043  | 7.9   | 83    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.509  | 1.0   | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.920  | 0.2   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.790  | 8.4   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.723  | -3.4  | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 132.688 | 46.9# | 71    | 0.07     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.269  | 7.5#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 218.350 | 12.7  | 77    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.816  | 6.4   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 227.501 | 9.0   | 85    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 152.860 | 38.9# | 50    | 0.02     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.777  | 10.4  | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.957  | 6.1   | 89    | 0.02     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.712  | 2.6   | 91    | 0.01     |
| 20 T  | Methylene Chloride          | 50.000  | 44.304  | 11.4  | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.883  | 8.2   | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.955  | 4.1   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 253.262 | -1.3  | 91    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.635  | 6.7   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 185.892 | 25.6# | 70    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.298  | 5.4   | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.361  | 7.3   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.225  | -4.5  | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 218.256 | 12.7  | 82    | 0.01     |
| 30 C  | Chloroform                  | 50.000  | 47.790  | 4.4#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.366  | 13.3  | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.010  | 6.0   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.973  | 0.1   | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.273  | -0.5  | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.816  | 6.4   | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 42.389  | 15.2  | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.440  | 7.1   | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 45.139  | 9.7   | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 46.807  | 6.4   | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.642  | 8.7   | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.316  | 3.4   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.937  | 2.1   | 91    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 44.855  | 10.3  | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.921  | 4.2#  | 92    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 47.773  | 4.5   | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 47.881  | 4.2   | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 48.999  | 2.0   | 89    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101723\  
 Data File : VY016011.D  
 Acq On : 17 Oct 2023 17:55  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 18 06:11:20 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) |
|-------|-----------------------------|----------|----------|------|-------|----------|
| ----- |                             |          |          |      |       |          |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1008.841 | -0.9 | 101   | 0.04     |
| 50 S  | Toluene-d8                  | 50.000   | 49.018   | 2.0  | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 220.547  | 11.8 | 81    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.401   | 5.2# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 47.994   | 4.0  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.465   | 5.1  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.249   | 5.5  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.693   | 2.6  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 46.036   | 7.9  | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 272.012  | -8.8 | 128   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 209.579  | 16.2 | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.416   | 5.2  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 45.952   | 8.1  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.191   | -0.4 | 94    | 0.00     |
|       |                             |          |          |      |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 43.736   | 12.5 | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.671   | 6.7  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 47.639   | 4.7  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 46.975   | 6.0# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 94.880   | 5.1  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.883   | 4.2  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.082   | 3.8  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.718   | 6.6  | 89    | 0.00     |
|       |                             |          |          |      |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.996   | 6.0  | 90    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 48.135   | 3.7  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.444   | 5.1  | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.357   | 7.3  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.399   | 5.2  | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.356   | 5.3  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.115   | 5.8  | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.833   | 4.3  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.463   | 7.1  | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.350   | 5.3  | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.361   | 7.3  | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.936   | 2.1  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.757   | 6.5  | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.043   | 5.9  | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.542   | 4.9  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.021   | 6.0  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.595   | 4.8  | 91    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 46.536   | 6.9  | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.278   | 5.4  | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 41.182   | 17.6 | 81    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 47.534   | 4.9  | 91    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 43.790   | 12.4 | 85    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 47.670   | 4.7  | 90    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101723\  
Data File : VY016011.D  
Acq On : 17 Oct 2023 17:55  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 18 06:11:20 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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 46.614 | 6.8  | 91    | 0.00     |

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