

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv072720\  
 Data File : VY003352.D  
 Acq On : 27 Jul 2020 13:12  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 28 05:12:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 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  | 41.302  | 17.4  | 97    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.918  | 12.2  | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.914  | 6.2#  | 104   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.183  | 3.6   | 111   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.580  | 4.8   | 105   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.623  | 0.8   | 109   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.264  | -4.5  | 114   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.815  | -1.6  | 111   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.621  | -1.2  | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 273.835 | -9.5  | 127   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.061  | -0.1# | 109   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 184.275 | 26.3# | 86    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 56.927  | -13.9 | 121   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 280.570 | -12.2 | 121   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 298.161 | -19.3 | 126   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.415  | 7.2   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 58.953  | -17.9 | 131   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.759  | -7.5  | 115   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 59.731  | -19.5 | 120   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.568  | -3.1  | 111   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 57.045  | -14.1 | 120   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 279.928 | -12.0 | 117   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.393  | -8.8  | 116   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 284.691 | -13.9 | 122   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 56.552  | -13.1 | 122   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.230  | -6.5  | 114   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.921  | -9.8  | 115   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 278.634 | -11.5 | 119   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.379  | -6.8# | 115   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.699  | 0.6   | 109   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.079  | -8.2  | 117   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.048  | 1.9   | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.767  | 2.5   | 105   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.190  | -2.4  | 112   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.738  | -9.5  | 118   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.734  | -5.5  | 113   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.692  | 0.6   | 108   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.405  | -4.8  | 115   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.918  | -3.8  | 110   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.785  | -3.6  | 114   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.248  | -8.5  | 117   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.002  | -0.0  | 110   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.326  | -8.7# | 118   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv072720\  
 Data File : VY003352.D  
 Acq On : 27 Jul 2020 13:12  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 28 05:12:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 50.690   | -1.4  | 110   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.647   | -7.3  | 117   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.088   | -10.2 | 118   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1063.488 | -6.3  | 113   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.130   | 5.7   | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 272.980  | -9.2  | 117   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.106   | -4.2# | 113   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.289   | -8.6  | 116   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.866   | -7.7  | 117   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.623   | -3.2  | 114   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.172   | -8.3  | 113   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.995   | -6.0  | 115   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 265.497  | -6.2  | 114   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 276.005  | -10.4 | 118   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.845   | -5.7  | 114   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.275   | -0.5  | 110   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.995   | 4.0   | 108   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.154   | 5.7   | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.532   | -7.1  | 115   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.172   | -8.3  | 116   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.688   | -7.4# | 114   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.008  | -7.0  | 114   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.119   | -8.2  | 114   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.010   | -10.0 | 115   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.689   | -9.4  | 114   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.434   | -6.9  | 115   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.694   | -9.4  | 115   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 55.109   | -10.2 | 119   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.421   | -8.8  | 118   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.512   | -5.0  | 114   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.596   | -7.2  | 115   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.487   | -7.0  | 115   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.309   | -6.6  | 115   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.454   | -6.9  | 114   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.535   | -7.1  | 115   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.109   | -8.2  | 116   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.521   | -7.0  | 115   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.952   | -7.9  | 116   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.396   | -6.8  | 114   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.657   | -7.3  | 116   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.902   | -5.8  | 115   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.055   | -8.1  | 115   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv072720\  
Data File : VY003352.D  
Acq On : 27 Jul 2020 13:12  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: Jul 28 05:12:33 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 10 13:18:03 2020  
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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 57.354 | -14.7 | 121   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.118 | -6.2  | 115   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.297 | -2.6  | 113   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.447 | -6.9  | 116   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.815 | -1.6  | 111   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.862 | -7.7  | 117   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.629 | -7.3  | 118   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6