

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv052020\  
 Data File : VY002730.D  
 Acq On : 20 May 2020 15:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 21 09:03:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 16 04:52:36 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   | 122   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.001  | 8.0   | 118   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.859  | 12.3  | 111   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.425  | 7.2#  | 116   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.711  | 6.6   | 117   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.815  | 6.4   | 114   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.973  | 2.1   | 121   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.132  | -0.3  | 117   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.533  | -1.1  | 124   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.630  | -1.3  | 113   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 233.172 | 6.7   | 114   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.793  | 0.4#  | 122   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 252.555 | -1.0  | 122   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.775  | -1.5  | 123   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 249.402 | 0.2   | 115   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 226.646 | 9.3   | 104   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.251  | 3.5   | 117   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.568  | -1.1  | 118   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.036  | -4.1  | 122   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.651  | 4.7   | 119   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.645  | 0.7   | 120   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.798  | -3.6  | 123   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 259.590 | -3.8  | 121   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.939  | -1.9  | 122   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 248.054 | 0.8   | 116   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.305  | 1.4   | 124   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.597  | -1.2  | 121   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.989  | 4.0   | 119   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 251.627 | -0.7  | 116   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.537  | -1.1# | 120   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.349  | 5.3   | 119   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.073  | -0.1  | 121   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.882  | -3.8  | 122   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 122   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.079  | -6.2  | 126   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.377  | 1.2   | 121   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.255  | -0.5  | 116   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.757  | 0.5   | 119   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.502  | 1.0   | 120   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.457  | 1.1   | 119   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.164  | -6.3  | 121   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.853  | 0.3   | 119   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.843  | -3.7  | 119   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.646  | 0.7   | 120   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.449  | -0.9# | 123   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv052020\  
 Data File : VY002730.D  
 Acq On : 20 May 2020 15:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 21 09:03:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 16 04:52:36 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   | 51.000   | -2.0  | 120   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.555   | -3.1  | 122   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.504   | -3.0  | 119   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1001.769 | -0.2  | 119   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.389   | -2.8  | 123   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 255.256  | -2.1  | 117   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.396   | 1.2#  | 120   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.419   | -0.8  | 120   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.922   | -1.8  | 120   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.854   | -1.7  | 122   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.328   | -2.7  | 118   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.459   | -0.9  | 119   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 258.825  | -3.5  | 120   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 254.733  | -1.9  | 116   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.575   | -1.2  | 118   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.800   | -1.6  | 120   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.891   | -1.8  | 124   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 120   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.332   | 1.3   | 117   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.134   | -0.3  | 120   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.783   | -1.6  | 120   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.941   | 0.1#  | 119   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.353   | 0.6   | 118   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.852   | 0.3   | 118   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.164   | -0.3  | 118   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.407   | -2.8  | 118   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 115   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.992   | -2.0  | 118   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.544   | -7.1  | 118   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.983   | -4.0  | 118   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.403   | -4.8  | 117   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 56.161   | -12.3 | 130   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.917   | -1.8  | 118   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.493   | -1.0  | 118   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.355   | -0.7  | 116   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.053   | -4.1  | 118   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.466   | -0.9  | 118   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.417   | -0.8  | 118   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.370   | -0.7  | 117   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.561   | -1.1  | 118   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.401   | -0.8  | 117   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.079   | -0.2  | 118   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.589   | 0.8   | 116   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.085   | -0.2  | 117   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv052020\  
Data File : VY002730.D  
Acq On : 20 May 2020 15:33  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: May 21 09:03:13 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
Quant Title : SW846 8260  
QLast Update : Sat May 16 04:52:36 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 | 51.013 | -2.0 | 118   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.724 | 0.6  | 116   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.604 | -5.2 | 121   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.113 | -0.2 | 113   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.672 | -3.3 | 117   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.019 | 2.0  | 116   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.465 | -0.9 | 115   | 0.00     |

(#) = Out of Range

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