

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\VY101119\  
 Data File : VY000271.D  
 Acq On : 11 Oct 2019 15:13  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY101119

Quant Time: Oct 14 08:14:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 14 08:10:23 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 108   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 57.769  | -15.5  | 123   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.577  | -1.2   | 117   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 54.457  | -8.9#  | 124   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.312  | -6.6   | 134   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.422  | -6.8   | 119   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.795  | -7.6   | 120   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.769  | -3.5   | 117   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 54.781  | -9.6   | 122   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.825  | 2.3    | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 224.866 | 10.1   | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 55.732  | -11.5# | 123   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 230.848 | 7.7    | 98    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 55.032  | -10.1  | 123   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 249.296 | 0.3    | 106   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 262.948 | -5.2   | 104   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 54.021  | -8.0   | 121   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.276  | 5.4    | 111   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.058  | -4.1   | 115   | -0.01    |
| 20 T  | Methylene Chloride          | 50.000  | 53.584  | -7.2   | 117   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.603  | -5.2   | 118   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.473  | -10.9  | 121   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 270.374 | -8.1   | 114   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.011  | -10.0  | 121   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 249.725 | 0.1    | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 54.555  | -9.1   | 123   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.317  | -8.6   | 120   | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 53.214  | -6.4   | 113   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 248.747 | 0.5    | 105   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.564  | -9.1#  | 118   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 53.451  | -6.9   | 122   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.362  | -10.7  | 119   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.560  | -5.1   | 111   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 108   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.150  | -4.3   | 114   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.518  | -7.0   | 121   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.072  | -0.1   | 108   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.935  | -7.9   | 119   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.917  | -9.8   | 122   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.911  | -7.8   | 120   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.952  | 6.1    | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.880  | -1.8   | 112   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.163  | -0.3   | 107   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.834  | -3.7   | 114   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.739  | -7.5#  | 117   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\VY101119\  
 Data File : VY000271.D  
 Acq On : 11 Oct 2019 15:13  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY101119

Quant Time: Oct 14 08:14:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 14 08:10:23 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 52.306  | -4.6   | 115   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.606  | -7.2   | 117   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.961  | -1.9   | 109   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 963.369 | 3.7    | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 56.341  | -12.7  | 115   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 248.853 | 0.5    | 104   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.451  | -8.9#  | 120   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.941  | -7.9   | 116   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.664  | -9.3   | 117   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.330  | -4.7   | 117   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.282  | -6.6   | 112   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.483  | -5.0   | 113   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 275.964 | -10.4  | 121   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 262.303 | -4.9   | 108   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.497  | -9.0   | 117   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.949  | -3.9   | 112   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.746  | -5.5   | 116   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.395  | -0.8   | 110   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.304  | -8.6   | 119   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.510  | -9.0   | 117   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.345  | -10.7# | 119   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.562 | -9.6   | 118   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.896  | -9.8   | 119   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.911  | -11.8  | 120   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.741  | -7.5   | 110   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 56.304  | -12.6  | 121   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 57.300  | -14.6  | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.331  | -8.7   | 116   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.531  | -3.1   | 104   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.899  | -7.8   | 117   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 56.780  | -13.6  | 121   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 56.585  | -13.2  | 120   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 56.284  | -12.6  | 120   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.931  | -7.9   | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 56.395  | -12.8  | 120   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.982  | -12.0  | 119   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 56.499  | -13.0  | 119   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.797  | -13.6  | 119   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 57.353  | -14.7  | 119   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.733  | -9.5   | 119   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 55.137  | -10.3  | 119   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 57.770  | -15.5  | 120   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\VY101119\  
Data File : VY000271.D  
Acq On : 11 Oct 2019 15:13  
Operator : SY/MD  
Sample : VSTDICV050  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY101119

Quant Time: Oct 14 08:14:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 14 08:10:23 2019  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 57.383 | -14.8 | 118   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.244 | -8.5  | 113   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.760 | -3.5  | 110   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.472 | -4.9  | 114   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.064 | -6.1  | 114   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.294 | -4.6  | 112   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.169 | -4.3  | 113   | 0.00     |

(#) = Out of Range

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