

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv121219\  
 Data File : VY000927.D  
 Acq On : 12 Dec 2019 11:11  
 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: Dec 13 08:38:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 27 12:40:47 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.620  | 18.8  | 73    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.000  | 14.0  | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.550  | 10.9# | 79    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.569  | 6.9   | 84    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.447  | 9.1   | 79    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.722  | 6.6   | 83    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.203  | 3.6   | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.855  | 2.3   | 86    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 49.976  | 0.0   | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 243.489 | 2.6   | 81    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.272  | 1.5#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 231.254 | 7.5   | 85    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.883  | 2.2   | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 250.571 | -0.2  | 85    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 204.509 | 18.2  | 72    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.236  | 7.5   | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.095  | 5.8   | 83    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.682  | 0.6   | 83    | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 52.408  | -4.8  | 94    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.530  | 2.9   | 86    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.068  | 1.9   | 83    | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 245.954 | 1.6   | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.007  | -0.0  | 86    | -0.02    |
| 25 T  | 2-Butanone                  | 250.000 | 229.934 | 8.0   | 73    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.345  | 1.3   | 87    | -0.02    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.883  | -1.8  | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.715  | -13.4 | 98    | -0.01    |
| 29 T  | Tetrahydrofuran             | 250.000 | 244.557 | 2.2   | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.243  | -4.5# | 94    | -0.01    |
| 31 T  | Cyclohexane                 | 50.000  | 46.490  | 7.0   | 83    | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.375  | 1.3   | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 44.325  | 11.3  | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 89    | -0.01    |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.439  | 5.1   | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.538  | 2.9   | 85    | -0.01    |
| 37 T  | Ethyl Acetate               | 50.000  | 47.360  | 5.3   | 79    | -0.02    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.592  | -1.2  | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.711  | 2.6   | 85    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.387  | -0.8  | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 43.216  | 13.6  | 75    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.465  | 5.1   | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.808  | 4.4   | 78    | -0.01    |
| 44 TM | Trichloroethene             | 50.000  | 50.111  | -0.2  | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.964  | 0.1#  | 84    | 0.00     |

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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   | 50.041   | -0.1 | 84    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.952   | -3.9 | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.360   | 3.3  | 76    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1005.250 | -0.5 | 79    | -0.01    |
| 50 S  | Toluene-d8                  | 50.000   | 49.194   | 1.6  | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 247.512  | 1.0  | 80    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.944   | 0.1# | 85    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.798   | -3.6 | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.900   | -1.8 | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.377   | -0.8 | 85    | -0.01    |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.099   | -4.2 | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.510   | -1.0 | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 239.814  | 4.1  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 252.685  | -1.1 | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.784   | -3.6 | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.470   | -0.9 | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 45.137   | 9.7  | 84    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.300   | 3.4  | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.737   | 0.5  | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.500   | -3.0 | 87    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.330   | 1.3# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.270   | 0.7  | 85    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.511   | 1.0  | 85    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.044   | -2.1 | 86    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.173   | -4.3 | 85    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.327   | 1.3  | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.815   | 4.4  | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.587   | -1.2 | 82    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.974   | -5.9 | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.330   | -0.7 | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.809   | 0.4  | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.960   | 2.1  | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.509   | 1.0  | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.447   | -4.9 | 81    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.466   | 1.1  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.679   | 0.6  | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.189   | 1.6  | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.468   | 1.1  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.111   | -0.2 | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.803   | 0.4  | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.652   | -1.3 | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.220   | -0.4 | 86    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.121 | -2.2 | 85    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.292 | -0.6 | 85    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.332 | 1.3  | 80    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.204 | -2.4 | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.671 | -1.3 | 88    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.166 | -0.3 | 83    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.982 | -2.0 | 88    | 0.00     |

(#) = Out of Range

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