

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv120319\  
 Data File : VY000850.D  
 Acq On : 03 Dec 2019 19:38  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 04 02:42:44 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    | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.942  | 6.1    | 79    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.165  | -2.3   | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.282  | -2.6#  | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 55.504  | -11.0  | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.098  | -6.2   | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.663  | -5.3   | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.878  | -9.8   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.825  | -3.7   | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.064  | -8.1   | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 268.345 | -7.3   | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.497  | -5.0#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 221.084 | 11.6   | 76    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 56.254  | -12.5  | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 283.976 | -13.6  | 90    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 284.102 | -13.6  | 94    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.762  | -3.5   | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 56.746  | -13.5  | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 57.209  | -14.4  | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.972  | -7.9   | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.724  | -7.4   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 58.633  | -17.3  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 295.132 | -18.1  | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 56.234  | -12.5  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 281.070 | -12.4  | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.914  | -3.8   | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 56.958  | -13.9  | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 60.912  | -21.8# | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 296.625 | -18.6  | 92    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.127  | -8.3#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.185  | -2.4   | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.681  | -11.4  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.680  | -7.4   | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.816  | 2.4    | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.993  | -2.0   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.256  | -8.5   | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.771  | -3.5   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.073  | -0.1   | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.280  | -6.6   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.402  | -8.8   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.508  | -11.0  | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.016  | -8.0   | 88    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.229  | -6.5   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.178  | -10.4# | 93    | 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   | 54.490   | -9.0  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.042   | -10.1 | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.180   | -10.4 | 86    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1098.053 | -9.8  | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.817   | -3.6  | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 282.886  | -13.2 | 91    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.301   | -6.6# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.640   | -13.3 | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.922   | -9.8  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.479   | -9.0  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 58.415   | -16.8 | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.578   | -11.2 | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 245.834  | 1.7   | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 268.822  | -7.5  | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.277   | -12.6 | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.472   | -10.9 | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.602   | 2.8   | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.169   | -4.3  | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.747   | -5.5  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.284   | -10.6 | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.975   | -4.0# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.570  | -3.6  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.750   | -7.5  | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.505   | -9.0  | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.005   | -8.0  | 89    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.172   | -4.3  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.336   | -10.7 | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.480   | -7.0  | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.141   | -8.3  | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.372   | -8.7  | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.034   | -4.1  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.587   | -5.2  | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.148   | -4.3  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.251   | -10.5 | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.241   | -6.5  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.638   | -5.3  | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.879   | -5.8  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.290   | -4.6  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.386   | -4.8  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.696   | -5.4  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.387   | -8.8  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.164   | -4.3  | 89    | 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 | 54.406 | -8.8  | 90    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.298 | -8.6  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.294 | -10.6 | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.078 | -6.2  | 91    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.374 | -2.7  | 90    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 55.006 | -10.0 | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.481 | -9.0  | 94    | 0.00     |

(#) = Out of Range

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