

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv030420\  
 Data File : VY001866.D  
 Acq On : 04 Mar 2020 19:55  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 05 05:42:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 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   | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.049  | 5.9   | 83    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.048  | 1.9   | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.069  | 1.9#  | 82    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 58.570  | -17.1 | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.342  | -2.7  | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.132  | 1.7   | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.938  | -7.9  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.282  | 1.4   | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.703  | 2.6   | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 311.772 | -24.7 | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.609  | 0.8#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 263.859 | -5.5  | 98    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.319  | -4.6  | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 284.650 | -13.9 | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 256.217 | -2.5  | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.421  | 1.2   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 56.796  | -13.6 | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.752  | -9.5  | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.455  | -0.9  | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.931  | -1.9  | 86    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.044  | -8.1  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 284.294 | -13.7 | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.347  | -2.7  | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 284.046 | -13.6 | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.078  | 1.8   | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.057  | -4.1  | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.827  | -13.7 | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 292.696 | -17.1 | 99    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.038  | -4.1# | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.111  | 3.8   | 85    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.681  | -1.4  | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.859  | -9.7  | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.821  | -3.6  | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.651  | 2.7   | 84    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 56.932  | -13.9 | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.046  | 1.9   | 85    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.785  | 2.4   | 86    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.264  | -0.5  | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 59.987  | -20.0 | 107   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.633  | -5.3  | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 55.745  | -11.5 | 95    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.130  | 1.7   | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.654  | -3.3# | 89    | 0.00     |

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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   | 53.700   | -7.4  | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.275   | -4.5  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 56.006   | -12.0 | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1168.616 | -16.9 | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.426   | -2.9  | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 285.783  | -14.3 | 98    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.993   | -2.0# | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.869   | -7.7  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.068   | -4.1  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.200   | -6.4  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.485   | -11.0 | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.875   | -5.8  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 263.673  | -5.5  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 281.354  | -12.5 | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.334   | -6.7  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.500   | -7.0  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.671   | -5.3  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.256   | 3.5   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.300   | 1.4   | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.999   | 0.0   | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.192   | 1.6#  | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 98.867   | 1.1   | 87    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.023   | -0.0  | 88    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.489   | -3.0  | 89    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.705   | -9.4  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.420   | 1.2   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.769   | -11.5 | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.290   | -8.6  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.884   | 2.2   | 93    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.243   | -0.5  | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.411   | 1.2   | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.607   | 0.8   | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.396   | 1.2   | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.032   | -8.1  | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.367   | -0.7  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.219   | 1.6   | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.420   | -0.8  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.030   | -0.1  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.388   | -0.8  | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.923   | 0.2   | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.969   | 0.1   | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.703   | 0.6   | 88    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.010 | -2.0  | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.116 | -2.2  | 91    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.600 | -11.2 | 101   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.380 | 1.2   | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.085 | 3.8   | 87    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.632 | -5.3  | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.516 | -1.0  | 90    | 0.00     |

(#) = Out of Range

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