

	MODEL 541 FIELD TEST PROCEDURE	DOCUMENT NO. 541-0300	841 Holt Road Suite 1 Webster New York 14580 Business: (585) 872-9350 Fax: (585) 872-2638
Created by: L. DeWitt	DATE: 7-28-04	Sheet 1 of 1	

Rev.	Date	Appd	BRIEF CHANGE DESCRIPTION
A	7-28-04	LBD	INITIAL RELEASE
B	5-6-05	MJK	Update
C	12-7-06	MJK	Update Specifications

Equipment Needed:

1. Universal Counter Timer with an accuracy of ± 10 PPM RDG.
2. Digitizing Oscilloscope.
3. Frequency Source with an accuracy of ± 10 PPM RDG.

CALIBRATION:

No Calibration is required.

Final Test:

Source Mode:

Connect the Model 541 to the Universal Counter Timer. Press the SOURCE Button to switch to different source modes. Set the Model 541 to the settings below and verify the Model 541 is properly functioning within specification.

UUT Setting	Counter Timer Reading
20000 CPH	5.5555 Hz $\pm$ 0.0003 Hz
2000.0 CPM	33.333 Hz $\pm$ 0.002 Hz
200.00 Hz	200.00 Hz $\pm$ 0.01 Hz
2000.0 Hz	2000.0 Hz $\pm$ 0.1 Hz
20.000 kHz	20.000 kHz $\pm$ 0.001 kHz

Read Mode:

Connect the Model 541 to a Frequency Source. Press the READ Button to switch to the different read modes. Set the frequency calibrator to the settings in the table below and verify the UUT is reading within specification.

Frequency Calibrator Setting	UUT Reading
5.5556 Hz	20000.0 CPH $\pm$ 0.1 CPH
33.3333 Hz	2000.0 CPM $\pm$ 0.1 CPM
200.00 Hz	200.00 Hz $\pm$ 0.01 Hz
2000.0 Hz	2000.0 Hz $\pm$ 0.1 Hz
20.000 kHz	20.000 kHz $\pm$ 0.001 kHz

Source Mode:

1. Check that the Duty cycle is $50\% \pm 2\%$.
2. Check that the Amplitude Adjustment is $\pm 10\%$ of setting.

Completion of Field Test: