

2.3 Test Instruments Configuration

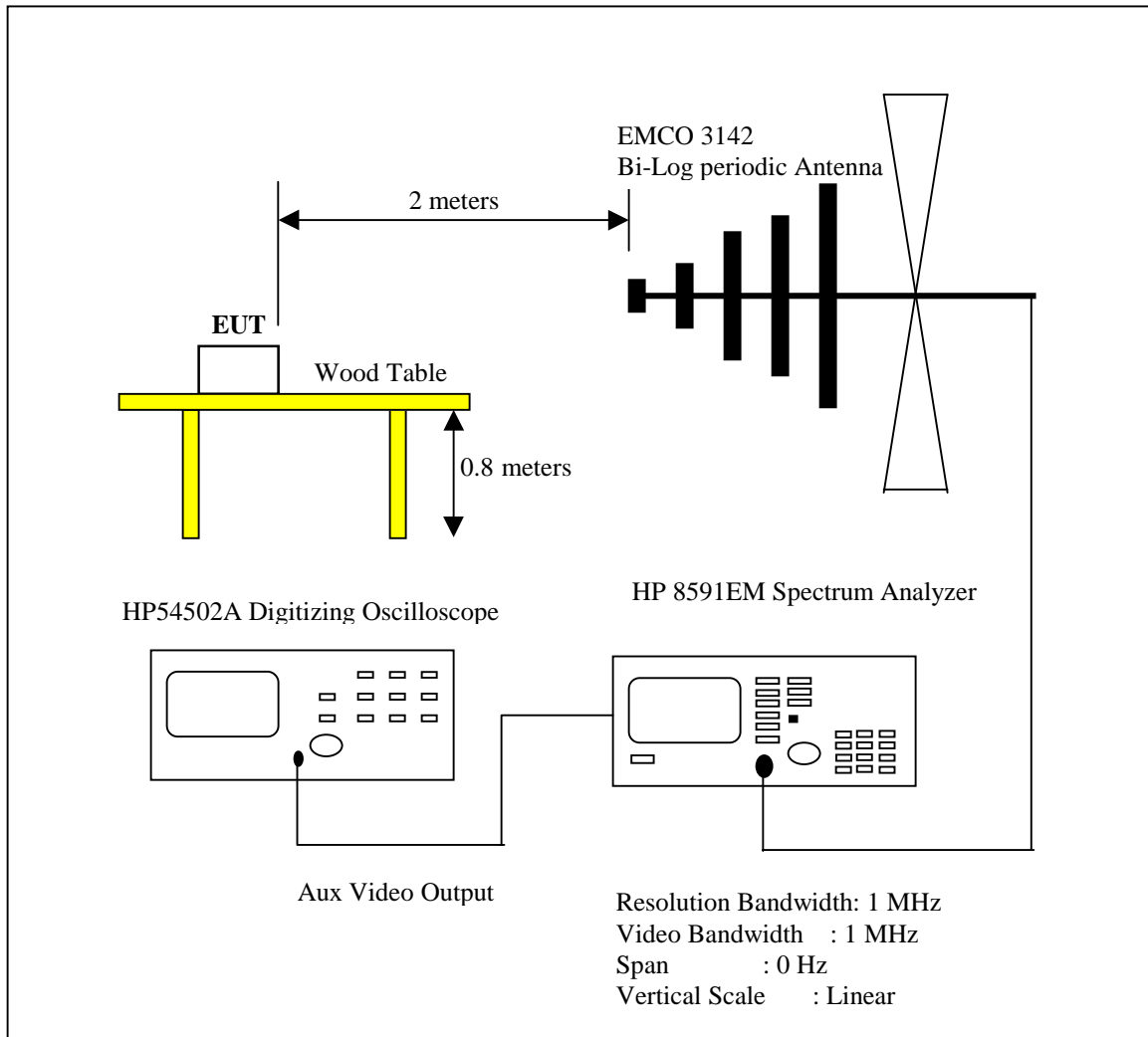


Fig 1. Test Configuration of Duty Cycle Measurement

2.4 Test Result

Following is the test result which produce maximum duty cycle :

Total on interval in a complete pulse train = 31.000 ms

Length of a complete pulse train = 41.500 ms

Duty cycle (%) = $31.000 \text{ ms} / 41.5000 \text{ ms} * 100\% = 0.746987951$

Duty Cycle Correction Factor (dB) = $20 * \text{Log } 0.746987951 = -2.53$

A plot is attached on the following page.

5.5 Test Result of Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Table 1 Open Field Radiated Emissions For 30MHz - 1GHz [Horizontal]
(Orthogonal: X-position)

Radiated Emission				Correction Factors	Corrected Amplitude (dBμV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBμV/m)	Ant.H. (cm)	Table (°)	(dB)		Limit (dBμV/m)	Margin (dB)
314.820	90.61	1.00	314	-17.30	73.31	75.60	-2.29
629.648	65.92	3.00	281	-23.40	42.52	55.60	-13.08

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 2. Open Field Radiated Emissions for 1 GHz -18 GHz [Horizontal]

Radiated Emission				Correction Factors	Duty Cycle	Corrected Amplitude (dBμV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBμV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)		Limit (dBμV/m)	Margin (dB)
***	***	***	***	***	***	***	***	***

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor + Duty Cycle = Corrected
- 3. The emissions that above 1GHz were all in the ambient.**

Table 3 Open Field Radiated Emissions For 30MHz – 1GHz [Vertical]

(Orthogonal: Y-position)

Radiated Emission				Correction Factors	Corrected Amplitude (dBμV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBμV/m)	Ant.H. (cm)	Table (°)	(dB)		Limit (dBμV/m)	Margin (dB)
314.820	87.03	1.00	288	-17.41	69.62	75.60	-5.98
630.150	63.64	1.00	94	-23.64	40.00	55.60	-20.73

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factors = Corrected

Table 4. Open Field Radiated Emissions For 1 GHz -18 GHz [Vertical]

Radiated Emission				Correction Factors	Duty Cycle	Corrected Amplitude (dBμV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBμV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)		Limit (dBμV/m)	Margin (dB)
***	***	***	***	***	***	***	***	***

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor + Duty Cycle = Corrected
3. **The emissions that above 1GHz were all in the ambient.**

