

12mW output peak power in original report was measured by Spectrum Analyzer radiated test method. 64mW was measured by average power meter plus duty cycle correction factor. (11.08dB). 6.59mw was measured by Schottkey Diode Detector and 30dB attenuator was too large , caused scope plot loss the dynamic range.

As your command we have reduced the attenuator to 12dB and improved our Diode Detector with Matching Network and 100K resistive load the schematic drawing as figure 1, the real body as figure 2, the EUT output power waveform as figure 3, and Signal Generator calibration as figure 4. Test setup for conducting peak power as page 3.

Currently we don't have peak power meter , and the Spectrum Analyzer RBW 3M only. The peak power substitution method was accepted by ETSI. We hope after improve the Dynamic Range matching Network and resistive load can accept by FCC for this case.

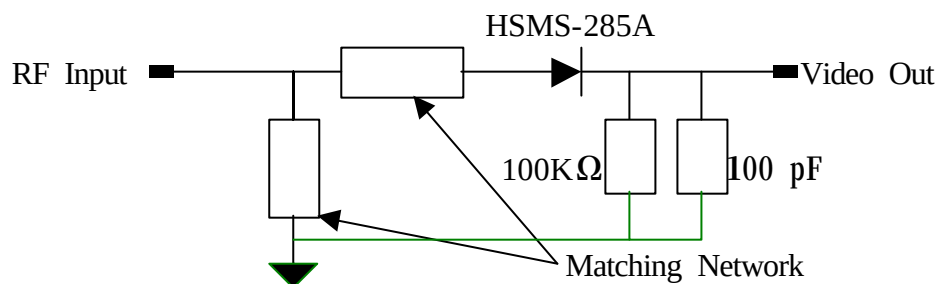


Figure 1

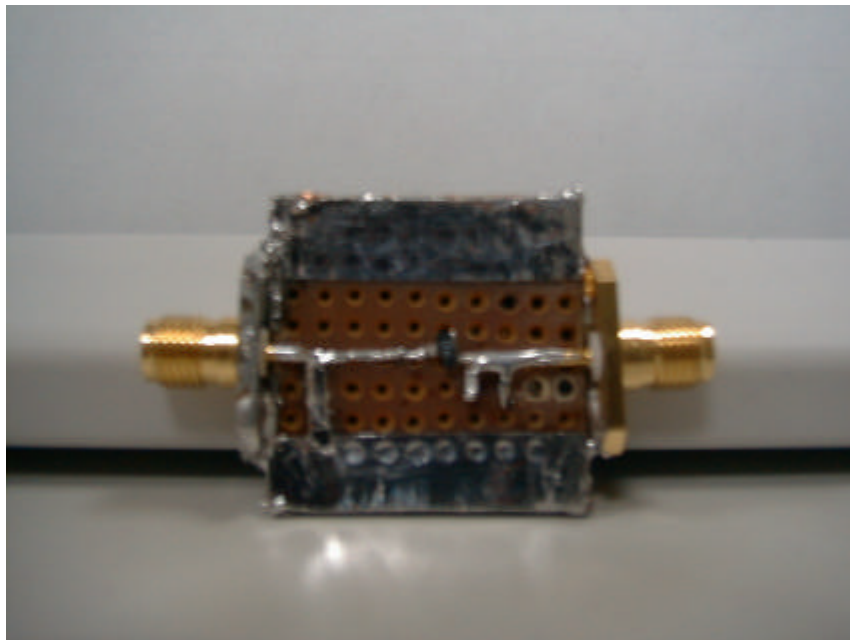


Figure 2

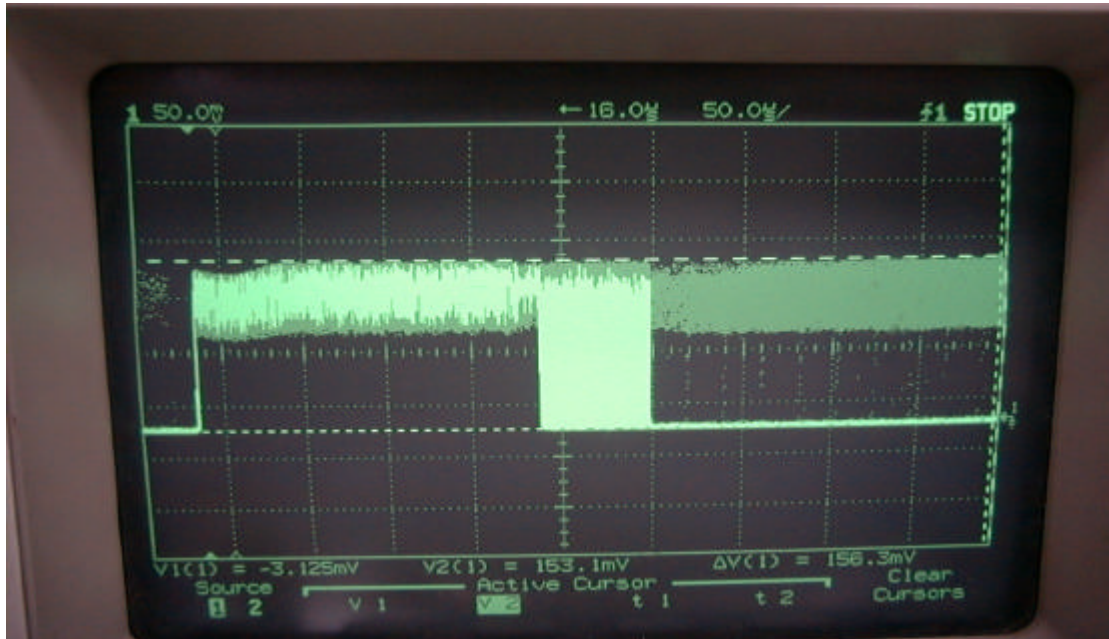


Figure 3

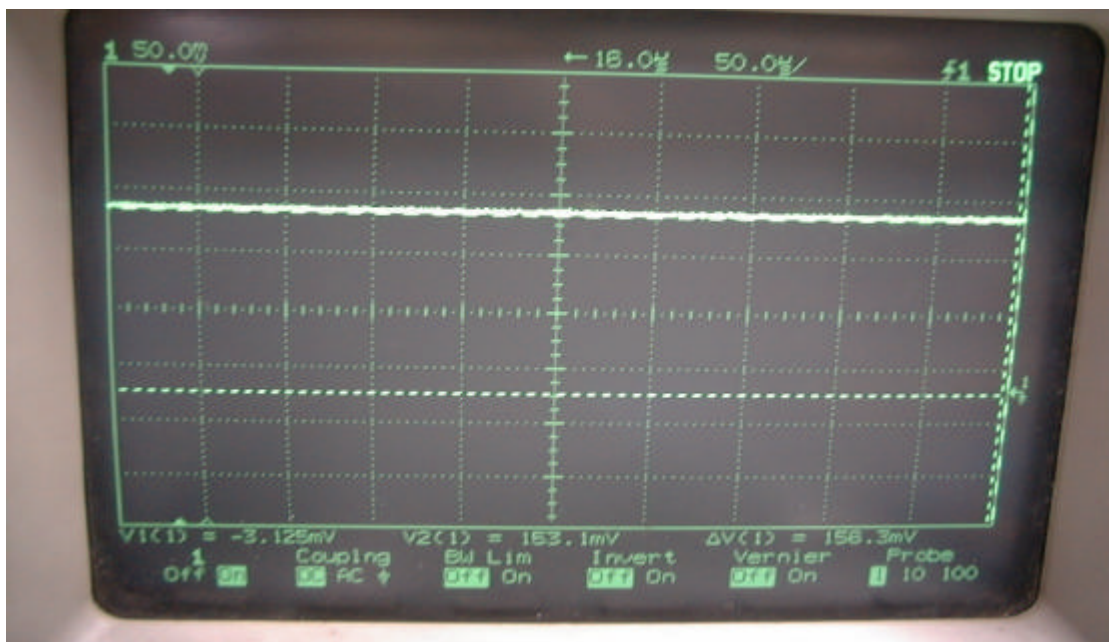
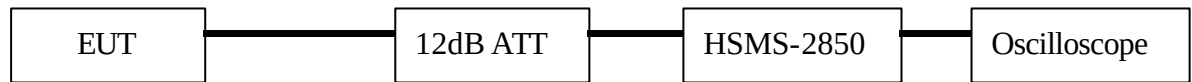


Figure 4

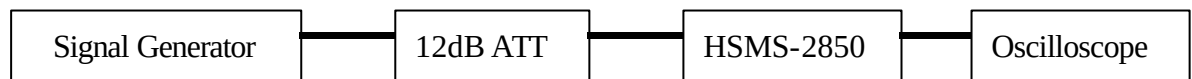
Test Setup for Conducting Peak Power

Test Procedure:

1.



2.



1. The output of the transmitter through 12dB attenuator and terminated by Schottkey Detector Diode (Hewlett- Packard HSMS-2850)
2. The output of the Schottkey Diode Detector connected to the vertical channel of an oscilloscope. The observed trace of the oscilloscope shall be recorded as "A".
3. The combination of the diode detector and the oscilloscope capable of faithfully reproducing the envelop peaks and the duty cycle of the transmitter output signal.
4. The transmitter replaced by a signal generator . The output frequency of the signal made equal to the center of the frequency range occupied by the transmitter and unmodulated.
5. The output of the signal generator raised to reach the peak of trace "A" and then replace the 12 dB attenuator and Schottkey Detector Diode by power meter, measure the signal generator output level record as x mW.
6. The signal generator output level XmW is the transmitter output peak power. Recording the following.

Test Result :

Channel	Output peak power (dBm)	Output peak power (mw)
CH1	15.84	38.37
CH6	16.85	48.41
CH11	16.25	42.16