

Effective Radiated Power,

Pass [X] Fail [] N/A []

The EUT was measured on an open area test site (OATS) in accordance to the provisions in Annex A of the standard.


A measuring distance of at least 3 m shall be used for measurements at frequencies up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used. The equipment size (excluding the antenna) shall be less than 20 % of the measuring distance. The height of the equipment or of the substitution antenna shall be 1,5 m; the height of the test antenna (transmit or receive) shall vary between 1 m and 4 m.

Sufficient precautions shall be taken to ensure that reflections from extraneous objects adjacent to the site do not degrade the measurement results, in particular:

- no extraneous conducting objects having any dimension in excess of a quarter wavelength of the highest frequency tested shall be in the immediate vicinity of the site;
- all cables shall be as short as possible; as much of the cables as possible shall be on the ground plane or preferably below; and the low impedance cables shall be screened.

The EUT shall be placed upon a non-conductive table 1.5 meters above the ground plane and shall be placed in the “worst case” transmitting mode. The EUT shall be rotated 360 degrees to find the azimuth maxima. The receive antenna shall then be raised and lowered between 1 to 4 meters to find the maximum signal emanating from the EUT. Once the maximum has been identified and recorded the EUT is replaced with a tuned dipole at the appropriate frequency and a signal generator is input into the dipole. The level is raised until the same signal strength is achieved. This signal strength is then recorded on the data sheets.

Note: To obtain the effective power the spectrum analyzer was placed in average mode and the time was decreased in order to get a true representation of the effective radiated power in the spectrum.

		5969 Robinson Avenue Riverside, CA 92503 (909) 637-2630 FAX (909) 637-2704		XMTR Effective Radiated Power (ERP)			
DNB Job Number:		38044		Date: 30 Sep 2002		Conformance Standard FCC Title 47 Part 95	
Customer:		Novak Electronics					
Model Number:		M8		Serial Number:			
Description:		R/C Transmitter				Clause 95.210	
Environmental Conditions							
Ambient Temperature		Relative Humidity		Barometric Pressure			
31 °C		37 %		101.2 kPa			
Rated Radiated Power in W		750mW		Rated Radiated Power in dBm		28.75 dBm	
Polarization of the measurement for the largest power level (Horizontal or Vertical)						Vertical	
TESTS		Measured Power (W/dBm) and Variation (W/dB)					
		Channel 1		Channel 2		Channel 3	
		W	dBm	W	dBm	W	dBm
Measured Radiated Power		0.0813	19.10	N/a	N/a	N/a	N/a
Variation		N/o *	N/o *	N/a	N/a	N/a	N/a
Measurement Uncertainty		+/- 0.5dB					
Limit per FCC Part 95.210		750mW (27.5dBm)					
Notes	N/o * = No Variation observed during test						
	Test performed under normal operating conditions						
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>C. Hayne</i>							