

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC Car. The sample supplied operated on 13 channels, normally at 2420 - 2465MHz. The channels are shown in below table.

2420	2422	2424	2426	2437
2439	2440	2441	2443	2456
2458	2460	2465		

The EUT is powered by 4 x 1.5V AAA batteries. After switching on the EUT, the car will be moved forward or backward and turned left and right based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 101.4dB μ V/m at 3m (Peak), 76.5dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (PAN2010CKE) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1, C6 and C8 act as antenna matching circuit
4. U2 (SA8302B) acts as motor driver.