Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC Car. The sample supplied operated on 46 channels, normally at 2420 - 2465MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 3 x 3.2V Lithium-ion 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: OdBi

Nominal rated field strength is 100.8dBμV/m at 3m (Peak), 89.2dBμV/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

- 1. U1 (ABE2402X1) acts as MCU
- 2. Y1 acts as 16MHz Oscillator
- 3. L1, C1 and C3 act as antenna matching circuit
- 4. U2 acts as voltage regulator
- 5. U3 (MD2686) and U4 (AM2837) act as motor driver
- 6. U5, U9, U10, U11 and U12 act as charging circuit.