Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC Speed Bumper Car. The sample supplied operated on 71 channels, normally at 2405 - 2475MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 3 x 1.5V AAA batteries. After switching on the EUT, the car will be moved forward or backward, turned left and right, rotated clockwise or anti-clockwise or undergo a series of auto movement based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna Antenna Gain: 0dBi Nominal rated field strength is 79.9dBμV/m at 3m (Peak), 57.5dBμV/m at 3m (Average) Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

- 1. U1 (ZX22104) acts as MCU
- 2. Y1 acts as 16MHz Oscillator
- 3. L1, C2 and C3 act as antenna matching circuit
- 4. U2 and U3 act as motor driver
- 5. U5 provides LDO function.