

## Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC car. The sample supplied operated on 21 channels, normally at 2420 - 2462MHz. The channels are shown in below table.

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| 2420 | 2422 | 2424 | 2426 | 2428 | 2430 |
| 2434 | 2436 | 2438 | 2440 | 2442 | 2444 |
| 2446 | 2450 | 2452 | 2454 | 2456 | 2457 |
| 2458 | 2460 | 2462 |      |      |      |

The EUT is powered by 2 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 92.6dB $\mu$ V/m at 3m (Peak), 74.5dB $\mu$ V/m at 3m (Average)**

**Maximum allowed production tolerance: +/- 3dB**

The brief circuit description is listed as follows:

1. U1 (643330-TX) acts as RF MCU
2. Y1 acts as 16MHz Oscillator
3. C1, C7, C8 and L1 act as antenna matching circuit