

## Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC car. The sample supplied operated on 33 channels, normally at 2420 – 2465MHz. The channels are shown in the tables below:

|         |         |         |         |
|---------|---------|---------|---------|
| 2420MHz | 2421MHz | 2423MHz | 2424MHz |
| 2425MHz | 2426MHz | 2427MHz | 2428MHz |
| 2430MHz | 2434MHz | 2436MHz | 2437MHz |
| 2438MHz | 2439MHz | 2440MHz | 2441MHz |
| 2442MHz | 2443MHz | 2444MHz | 2445MHz |
| 2446MHz | 2451MHz | 2452MHz | 2453MHz |
| 2454MHz | 2455MHz | 2456MHz | 2457MHz |
| 2458MHz | 2459MHz | 2460MHz | 2461MHz |
| 2465MHz |         |         |         |

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the car will perform different actions based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 87.3dB $\mu$ V/m at 3m (Peak), 64.3 dB $\mu$ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (PAN2711) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. C1, L1 and C3 act as antenna matching circuit