

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transmitter (Chair Unit) for a RC Piano. The sample supplied operated on 41 channels, normally at 2423 - 2463 MHz for transmitter and receiver. The channels are separated by 1 MHz spacing.

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the piano will make sound when the button on the controller is pressed.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 97.5dB μ V/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 acts as 2.4GHz RF Module
2. Y1 acts as 16MHz Oscillator
3. U2 acts as MCU
4. S2 and S3 act as Control button
5. L4, C1, C2 C9 act as antenna matching circuitry