

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Drum Unit) for a Bluetooth 5.0 Drum. BLE function has been disabled. The sample supplied operated on 79 channels, normally at 2402 - 2480MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 3 x 1.5V AA batteries. After switching on the EUT, the Drum will be playing songs based on the paired smartphone.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 88.8dB μ V/m at 3m (Peak), 77.9dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 acts as MCU
2. U1 (H04J28B) act as RF Module
3. U3 acts as BLE Module
4. U5 (GPY0030C) acts as audio circuit.
5. Y1 acts as 24MHz Oscillator
6. C3, L1 and L2 act as antenna matching circuit
7. Q1 acts as amplifier.
8. U2 acts as SPI Flash chipset