

Technical Description

The Equipment Under Test is a 2.4GHz Dongle for Gaming Headset. The EUT operates at frequency range of 2403.35MHz to 2479.35MHz. There are total 39 channels with 2MHz channel spacing. The USB port on the Headphone is for charging purpose only. The EUT is powered by 5.0VDC. The EUT has 2 antennas.

Antenna 0

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 91.88dB μ V/m at 3m (Peak), 91.05dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

Antenna 1

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 92.04dB μ V/m at 3m (Peak), 92.04dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U3 (AV6301) acts as RF Module
2. U1A and U1B (AV6430) act as MCU
3. XT1 acts as 24.576MHz Oscillator
4. XT2 acts as 16MHz Oscillator
5. FT1 (HWS408) acts as antenna matching circuit
6. USB1 acts as USB circuit
7. U4 acts as LDO circuit
8. U7 acts as Security Chip
9. LED1 acts as LED circuit