

Analysis Report

FCC ID: 2AIGJ1201799

The Equipment-Under-Test (EUT) 1201799 is a Bluetooth Music Receiver. The EUT contains a Bluetooth radio which can accept wireless audio signal via Bluetooth devices. The Bluetooth module in the EUT is operating in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The analog audio signal is then played back at the 3.5mm phone jack output and SPDIF digital audio optical output. The EUT is powered by an AC/DC adaptor (Model: LGSPSC0500030UL, Input: 100-240VAC, Output: 5VDC). Bluetooth 4.0 BLE is not used by the EUT.

Antenna Type: Internal, Integral

Antenna Gain: 0dBi

Nominal RF power range: +6dBm to +9dBm

According to the KDB 447498:

Maximum radiated power (EIRP) is 7.9mW (i.e. +9dBm), thus

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 7.9mW.

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

= $3.0 * 5 / \sqrt{2.480}$ mW

= 9.53 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.