

# Analysis Report

FCC ID: 2AIGJ1201800

The Equipment-Under-Test (EUT) 1201800 is a Bluetooth Music Transmitter. The EUT can accept analog audio signal from 3.5mm phone jack input and SPDIF digital audio optical input. The Bluetooth radio inside the EUT will transmit wireless audio signal to the Bluetooth devices which has been paired with the EUT. The Bluetooth module in the EUT is operating in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The EUT is powered by an AC/DC adaptor (Model: LGSPSC0500030UL, Input: 100-240VAC, Output: 5VDC).

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:

$$\begin{aligned} &= 3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}} \\ &= 3.0 * 5 / \sqrt{2.480} \text{ mW} \\ &= 9.53 \text{ mW} \end{aligned}$$

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.