Analysis Report

Report No.: 13031420HKG-001

The Equipment Under Test (EUT) is a 900MHz stereo wireless transmitter for it corresponding headphone and using two discrete (left and right channel) radio carriers rather than the conventional FM multiplex system. Transmit carriers are generated by two VCO and controlled by a microprocessor. The operating frequencies are 911.400MHz and 915.600MHz for Left and Right channel respectively.

It is powered by an AC/DC adaptor (Model: U120025D, Input: 120VAC, Output: 12VDC, 250mA). The unit can be activated at the back of the unit. At the same time the power on LED (red colour) in front of the unit will be lighted.

Antenna Type: Internal integral antenna
Antenna Gain: 0dBi
Nominal rated field strength: 88.9dBμV/m at 3m
Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 91.9dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 0.465mW

Conducted power = Radiated Power (EIRP) – Antenna Gain
So;

Conducted Power = 0.465mW.

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (0.9156) mW
= 15.68 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.