## **Analysis Report**

The Equipment Under Test (EUT) is a Wireless Speaker. It can accept audio signal from analog input source (3.5mm phone jack aux-in) and wireless Bluetooth device. The audio signal is amplified and fed to the built-in passive loudspeakers. The EUT is powered by 3.6V internal rechargeable battery and/or 5VDC (USB port). The USB ports is for charging internal battery only without PC data transfer function.

2.4GHz Bluetooth Module: Modulation Type: GFSK

Antenna Type: Integral, Internal (PCB Trace)

Frequency Range: 2402MHz - 2480MHz, 1MHz channel spacing, 79 channels

EIRP range is -4 dBm to 4 dBm

Antenna gain is 0dBi

According to the KDB 447498:

Conducted power = Radiated Power (EIRP) – Antenna Gain

= 4 dBm - 0 dBi = 4 dBm

Conducted Power = 2.5 mW.

The SAR Exclusion Threshold Level:

= 3.0 \* (min. test separation distance, mm) / sqrt(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.