## RF Exposure

The equipment under test (EUT) is a BLUETOOTH HEADPHONES with Bluetooth function. The EUT was powered by DC 3.7V lithium battery and charged by DC 5V USB port. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4DQPSK, 8DPSK.
Bluetooth Version: 2.1+EDR.

Antenna Type: Integral antenna.
Antenna Gain: 0dBi.
The nominal conducted output power specified: -8.0dBm (+/-3dB).
The nominal radiated output power (e.i.r.p) specified: -8.0dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 88.1dBμV/m at 3m in the frequency 2402MHz
The EIRP = [(FS*D) ^2 / 30] mW =-7.1dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 85.7dBμV/m at 3m in the frequency 2480MHz
The EIRP = [(FS*D) ^2 / 30] mW = -9.5dBm
which is within the production variation.

The maximun conducted output power specified is -5.0dBm = 0.32 mW
The source- based time-averaging conducted output power
= 0.32 * Duty Cycle mW (where Duty Cycle < 100%) < 0.32mW

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.5 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.