## RF Exposure

The equipment under test (EUT) is a Bluetooth Headphones; The EUT is operated by a 3.7Vdc lithium battery which can be charged by USB Port. The EUT will be switched in Aux-in mode once the Aux-in cable is inserted. For more information please refer to the user manual.

Bluetooth function:
Bluetooth Version: 4.0 EDR
Antenna Type: Integral Antenna.
Antenna Gain: 0dBi.
Modulation Type: GFSK, Π/4DQPSK, 8DPSK
The nominal conducted output power specified: 0dBm (+/-3dB)
The nominal radiated output power (e.i.r.p) specified: 0dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 98.1dBμV/m at 3m in the frequency 2480MHz
The EIRP = [(FS*D) ^2 / 30] mW = 2.9dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 96.7dBμV/m at 3m in the frequency 2441MHz
The EIRP = [(FS*D) ^2 / 30] mW = 1.5dBm
which is within the production variation.

The maximun conducted output power specified is 3dBm = 2mW
The source- based time-averaging conducted output power
= 2 * Duty factor mW (where Duty Factor≤1)
= 2mW

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt (freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.53mW

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.

Bluetooth function:
Bluetooth Version: 4.0 BLE
Antenna Type: Integral Antenna.
Antenna Gain: 0dBi.
Modulation Type: GFSK
The nominal conducted output power specified: 0dBm (+/-3dB)
The nominal radiated output power (e.i.r.p) specified: 0dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 95.4dBμV/m at 3m in the frequency 2402MHz
The EIRP = [(FS*D) ^2 / 30] mW = 0.2dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 94.7dBμV/m at 3m in the frequency 2440MHz
The EIRP = [(FS*D) ^2 / 30] mW = -0.5dBm
which is within the production variation.

The maximun conducted output power specified is 3dBm = 2mW
The source- based time-averaging conducted output power
= 2 * Duty factor mW (where Duty Factor$\leqslant$1)
= 2mW

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 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.