RF Exposure

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

Modulation Type: GFSK for BT 4.0 and GFSK, π /4DQPSK, 8DPSK for BT 2.01+EDR. Bluetooth Version: 4.0 and 2.1 with EDR.

Antenna Type: Integral antenna. Antenna Gain: 3.3 dBi max The nominal conducted output power specified: 0dBm (Tolerance: +/-2dB) The nominal radiated output power (e.i.r.p) specified: 3.3dBm (Tolerance: +/- 2dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $100.4dB\mu V/m$ at 3m in the frequency 2441MHz of BT 2.1+EDR The EIRP = [(FS*D) ^2 / 30] mW = 5.17dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $97.4dB\mu V/m$ at 3m in the frequency 2480MHz of BT 4.0 BLE mode The EIRP = [(FS*D) ^2 / 30] mW = 2.17dBm which is within the production variation.

The maximun conducted output power specified is 2.0dBm = 1.58mW The source- based time-averaging conducted output power = 1.58 * Duty factor mW (where Duty Factor ≤ 1) = 1.58 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 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.