## INTERTEK TESTING SERVICES

## **Analysis Report**

The equipment under test (EUT) is a Mono Earbuds model 25488 with Bluetooth technology operating in 2402-2480MHz. The EUT is powered by rechargeable battery(DC 3.7V, 40mAh) which can be charged by DC 5V/ 0.5A. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4-DQPSK and 8-DPSK Bluetooth Version: 3.0 Antenna Type: PCB Antenna Antenna Gain: -2.1dBi The nominal radiated output power specified: 1dBm (Tolerance: +/-1dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 96.4 dB $\mu$ V/m at 3m in the frequency 2.402GHz = [(FS\*D) ^2 / 30] mW = 1.2 dBm which is within the production variation

The minimum radiated emission for the EUT is 95.8 dB $\mu$ V/m for at 3m in the frequency 2.441GHz = [(FS\*D) ^2 / 30] mW = 0.6 dBm which is within the production variation

The maximun conducted output power specified is 2dBm = 1.58mW The source- based time-averaging conducted output power = 1.58\* Duty cycle mW <= 1.58 mW (Duty Cycle<=100%)

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.