INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a M&M Bluetooth speaker with Bluetooth 3.0 with EDR function operating in 2402-2480MHz. This EUT operates on an internal DC3.7V Li-ion battery that can be recharged by the Aux port with DC5V input. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, ∏/4DQPSK, 8DPSK

Bluetooth Version: 3.0 with EDR function

Antenna Type: Integral antenna

Antenna Gain: 0dBi

The nominal radiated output power (e.i.r.p) specified: 0dBm (Tolerance: +/-

3dB)

The nominal conducted output power specified: 0dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The worst-case radiated emission for the EUT is $95.3 dB\mu V/m$ at 3m in the frequency 2.441 GHz

- $= [(FS*D)^2 / 30] \text{ mW}$
- = 0.07dBm which is within the production variation.

The minimum radiated emission for the EUT is $94.6 dB\mu V/m$ at 3m in the frequency 2.480 GHz

- $= [(FS*D)^2 / 30] \text{ mW}$
- = -0.63dBm which is within the production variation.

The maximun conducted output power specified is 3dBm = 2.0mW The source- based time-averaging conducted output power

- = 2.0 * Duty cycle mW(Duty cycle≤ 1)
- = 2.0 mW

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.480) mW
- = 9.5 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.