RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	everysing Karaoke Microphone
Model Name	QDMEKM10
FCC ID	QDMEKM10

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\left[\sqrt{f(GHz)}\right] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

According to the follow transmitter output power (P_t) formula : P_t = (E x d) ²/ (30 x g_t) P_t =transmitter output power in watts g_t =numeric gain of the transmitting antenna (unitess) E=electric field strength in V/m d=measurement distance in meters (m)

BR/EDR Pt=-1.863dBm=0.65mW

The result for RF exposure evaluation SAR=(0.65mW /5mm) .[$\sqrt{2.48}$ (GHz)]= 0.20<3.0 for 1-g SAR

BLE P_t=2.491dBm=1.77mW

The result for RF exposure evaluation SAR=(1.77mW /5mm) .[$\sqrt{2.48}$ (GHz)]= 0.56<3.0 for 1-g SAR

4. CONCLUSION

The SAR evaluation is not required.