

## RF EXPOSURE EVALUATION

## 1. PRODUCT INFORMATION

Product Description	Microphone
Model Name	MRB-Tek TX, MRB-Tek Kit2, MRB-Tek Kit1, LINGO-TX, BY-U5-TX, LINGO, LINGO-DUO, BY-U5 K2, BY-U5 K1
FCC ID	2ARN3-052101TX

#### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

Wireless microphones:

Group A

 $P_t = -0.383 dBm = 0.92 mW$ 

The result for RF exposure evaluation SAR=(0.92mW /5mm) .[ $\sqrt{0.55671}$ (GHz)]= 0.14<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

Group B

 $P_t$ =-1.036dBm =0.79mW

The result for RF exposure evaluation SAR=(0.79 mW / 5 mm) .[ $\sqrt{0.57639}$ (GHz)]= 0.12<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

## 4. CONCLUSION

The SAR evaluation is not required.

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