

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	UHF Wireless Microphone System
Model Name	UwMic9 TX9
FCC ID	2ARN3-UWMIC9TX9

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 ≤ 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

 $P_t = 2.663 dBm = 1.846 mW$

The result for RF exposure evaluation SAR=(1.846mW /5mm) .[$\sqrt{0.55351}$ (GHz)]= 0.273<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

Group B

 P_t =2.534dBm =1.792mW

The result for RF exposure evaluation SAR=(1.792 mW / 5 mm).[$\sqrt{0.57578}(\text{GHz})$]= 0.272<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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