

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	UHF Wireless Microphone System
Model Name	UwMic9 HU9
FCC ID	2ARN3-UWMIC9HU9

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 =3.094dBm =2.0389mW

The result for RF exposure evaluation SAR= $(2.0389 \text{mW} / 5 \text{mm}) \cdot [\sqrt{0.533830} (\text{GHz})] = 0.2977 < 3.0$ for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

Group B

P_t=2.891dBm =1.9458mW

The result for RF exposure evaluation SAR=(1.9458mW /5mm) .[$\sqrt{0.595460}$ (GHz)]= 0.2996<3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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