

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Wireless Microphone
Model Name	UHF-20HHM, PDKWM-HT
FCC ID	ZRIUHF-20HHM

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 ≤ 50 mm are determined by:

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

Where $f(\text{GHz})$ 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 :

$P_t = -15.65\text{dBm} = 0.0272\text{mW}$

The result for RF exposure evaluation

$\text{SAR} = (0.0272\text{mW} / 5\text{mm}) \cdot [\sqrt{0.5372(\text{GHz})}] = 0.004 < 3.0$ for 1-g SAR

4. CONCLUSION

The SAR evaluation is not required.