

RF Exposure Evaluation

Product Description: Body-worn Wireless Microphone

Model Number: UHF-6000BP

FCC ID: 2AE6GUHF-6000BP

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

According to the test report:

$P_t = 7.83\text{mW}$

The result is rounded to one decimal place for comparison

Worse case is as below: [694.75MHz -7.83mW output power]

$(7.83\text{mW} / 5\text{mm}) \cdot [\sqrt{0.695(\text{GHz})}] = \underline{1.31} < 3.0$ for 1 - g SAR

Then SAR evaluation is not required

NOTE: For the maximum power, you can refer FCC test report.