

# **RF Exposure Requirements**

Product Description: Handheld Transmitter Microphone

Model No.: ACT-32H

FCC ID: M5X-ACT32H18

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

## **Calculation Result:**

Tx frequency range: 506.1-607.9MHz

Min. test separation distance: 1 mm

Maximum Conducted Output Power: 4.54 dBm

RF channel transmit frequency: 607.9 MHz

Result: 2.22

Limit: 3.0

The exclusion thresholds is  $2.22 < 3$ , so the transmitter complies with the RF exposure requirements and the SAR is not required.