

# **RF Exposure Requirements**

Product Description: Digital Bodypack Transmitter

Model No.: ACT-80T

FCC ID: M5X-ACT80T18

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:

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

## **Calculation Result:**

Tx frequency range: 480.1-603.9MHz

Min. test separation distance: 13 mm

Maximum Conducted Output Power: 17.22 dBm

RF channel transmit frequency: 542 MHz

Result: 2.99

Limit: 3.0

The exclusion thresholds is  $2.99 < 3$ , so the transmitter complies with the RF exposure requirements and the SAR is not required.