RF Exposure Requirements

Product Description: Digital Transmitter

Model No.: ACT-80TC

FCC ID: M5X-ACT80TC18

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:

[(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
- The result is rounded to one decimal place for comparison

Calculation Result:

Tx frequency range: 470.1-607.9MHz Min. test separation distance: 10 mm

Maximum Conducted Output Power: 13.8 dBm RF channel transmit frequency: 607.9MHz

Result: 1.87 Limit: 3.0

The exclusion thresholds is 1.87 < 3, so the transmitter complies with the RF exposure requirements and the SAR is not required.