RF Exposure Requirements

Product Description: LM058 Bluetooth Serial Adaper Class 1

Model No.: LM058, LM058-3050, LM058-3054, LM058-3059, LM058-3055

FCC ID: VVXLM058

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 17
- The result is rounded to one decimal place for comparison

Calculation Result:

Tx frequency range: 2402-2480MHz Min. test separation distance: 5mm

Maximum Conducted Output Power: 8.15dBm

Tune-Up output power: 9dBm

RF channel transmit frequency: 2480MHz

Result: 2.5 Limit: 3.0

The exclusion thresholds is 2.5 < 3, so the transmitter complies with the RF exposure requirements and the SAR is not required.