RF Exposure Requirements

Product Description: wireless microphone

Model No.: U-299H FCC ID: Y4O-TXP2

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:

For 542-566MHz

Tx frequency range: 542.125~564.4MHz

Device category: Portable device (Distance: 5mm) Maximum Conducted Output Power: 5.212dBm

Tune-Up output power: 6.0dBm

RF channel transmit frequency: 542.125MHz

Result: 0.586 Limit: 3.0

For 638-662MHz

Tx frequency range: 638.125~660.4MHz

Device category: Portable device (Distance: 5mm) Maximum Conducted Output Power: 6.917dBm

Tune-Up output power: 7.0dBm

RF channel transmit frequency: 638.125MHz

Result: 0.801 Limit: 3.0

The exclusion thresholds is 0.801 < 3, so the transmitter complies with the RF exposure requirements and the SAR is not required.