

RF Exposure Requirements

Product Description:Bluetooth headset

Model No.: LUBTAPPS-ASST,LS-K1,LS-K2,LS-K3,LS-IPLUIV,LS-IPLUEB,LS-K6,LS-K7,LS-K8,LS-K9

FCC ID:2AG5CLSLUBTA

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 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 ≤ 7.5 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 calculation¹⁷
- The result is rounded to one decimal place for comparison

Calculation Result:

Tx frequency range:2402MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:1.29dBm(1.346mW)

Tune-Up output power: 4dBm(2.5mW)

RF channel transmit frequency:2402MHz

Result: 0.77

Limit: 3.0

Tx frequency range:2442MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:1.69dBm(1.476 mW)

Tune-Up output power: 4dBm(2.5mW)

RF channel transmit frequency:2442MHz

Result: 0.78

Limit: 3.0

Tx frequency range:2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:-1.14dBm(0.769 mW)

Tune-Up output power: 4dBm(2.5mW)

RF channel transmit frequency:2480MHz

Result: 0.79

Limit: 3.0

The exclusion thresholds is $0.31 < 3$, so the transmitter complies with the RF exposure requirements and the SAR is not required.