

RF Exposure Requirements

Product Description: Wireless Audio Retention System

Model No.: BC30E

FCC ID: 2AQAB-BA30

According to the KDB 447498 D01 V06, the following RF exposure evaluation shall demonstrate RF exposure compliance.

Bluetooth V4.1 LE Technique

Tx frequency range: 2402~2480MHz

Type of Modulation: GFSK

Device category: Portable device (Distance: 5mm)

The maximum conducted output power: 1.41 dBm (Peak)

The maximum conducted output power specified is 0 dBm

Tolerance: ± 2 dB

The source-based time-averaging conducted output power

$= (0 + 2) * \text{Duty cycle mW} = 1.5849 \text{ mW}$ (Duty Cycle $\leq 100\%$)

Maximum Conducted Output Power: 1.5849 mW

Limit: 10mW

Source-based time-averaged Conducted output power is $1.5849 \text{ mW} < 10 \text{ mW}$

Bluetooth EDR Technique

Tx frequency range: 2402~2480MHz

Type of Modulation: GFSK, $\pi/4$ DQPSK, 8DPSK

Device category: Portable device (Distance: 5mm)

The maximum conducted output power: 0.62 dBm (Peak)

The maximum conducted output power specified is 0 dBm

Tolerance: ± 2 dB

The source-based time-averaging conducted output power

$= (0 + 2) * \text{Duty cycle mW} = 1.5849 \text{ mW}$ (Duty Cycle $\leq 100\%$)

Maximum Conducted Output Power: 1.5849 mW

Limit: 10mW

Source-based time-averaged Conducted output power is $1.5849 \text{ mW} < 10 \text{ mW}$

So the transmitter complies with the RF exposure requirements and the SAR is not required.