

RF Exposure Requirements

Product Description: Wireless speaker

Model No.: TAS4405-MIC

FCC ID: 2AR2STAS4405M

IC: 24589-TAS4405M

According to the KDB 447498 D01 V06 and RSS-102 Issue 5, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Digital Non-Broadcast Transmitter

Frequency Range: 214.216 MHz

Type of Modulation: Digital: 4FSK

Device category: Portable device (Distance: 5mm)

The maximum radiated output power (e.i.r.p): 12.65dBm

The EIRP specified is 12.65 dBm

Tolerance: ± 2 dB

➤ **FCC RF exposure**

The source- based time-averaging conducted output power

$$= (12.65 + 2) * \text{Duty cycle mW} = 29.17 \text{ mW} \quad (\text{Duty Cycle} \leq 100\%)$$

Maximum Conducted Output Power: 29.17 mW

Limit: 32.4mW

Source-based time-averaged Conducted output power is $29.17 \text{ mW} < 32.4 \text{ mW}$

➤ **ISED RF exposure**

The source- based time-averaging conducted output power

$$= (12.65 + 2) * \text{Duty cycle mW} = 29.17 \text{ mW} \quad (\text{Duty Cycle} \leq 100\%)$$

Maximum Conducted Output Power: 29.17 mW

Limit: 71 mW

Source-based time-averaged Conducted output power is $29.17 \text{ mW} < 71 \text{ mW}$

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