

RF Exposure Requirements

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: JAUTJA Inc.
Address of applicant: 5F, 342, Gangnam-daero, Gangnam-gu, Seoul, South Korea

Manufacturer: JAUTJA Inc.
Address of manufacturer: 5F, 342, Gangnam-daero, Gangnam-gu, Seoul, South Korea

General Description of EUT	
Product Name:	JAUTJA Wireless Live streaming earphones
Brand Name:	JAUTJA
Model No.:	JAUTJApq
Adding Model(s):	/
Rated Voltage:	DC 5V
Battery Capacity:	/
Software Version:	/
Hardware Version:	/
Serial Number:	S01
FCC ID:	2A6QB-JAUT

Technical Characteristics of EUT	
Frequency Range:	614-616MHz
Modulation:	FM
Quantity of Channels:	2
Chanel:	614.125MHz, 615.875MHz
Type of Antenna:	External Antenna
Antenna Gain:	1.79dBi

1.2 Standard Applicable

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

Where

-f(GHz) is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

1.3 Calculation Method

Bluetooth

Tx frequency range: 614-616MHz

Min. test separation distance: 5mm

Maximum Tune-up Conducted Output Power:0.3dBm

RF channel transmit frequency: 615.874MHz

Result:

Limit:

Result: $0.17 < \text{Limit: } 3.0$

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