

RF Exposure Requirements

1 General Information

Client Information

Applicant : Foshan Shunde BIG Climatic Manufacture Co., Ltd

Address of applicant : C area, 2nd Floor, 9A building, factory buildings 2 and 3, section no. 10-6, Fu An industrial area (First phase), Leliu Town, Shunde District, Foshan City, Guangdong, China

Manufacturer : Foshan Shunde BIG Climatic Manufacture Co., Ltd Zhongshan Branch

Address of manufacturer : No.20, Nantou Avenue East, Nantou town, Zhongshan City, Guangdong, China

General Description of E.U.T

FCC ID : 2BCMJ-FSHW2G4TX

Equipment Type : Portable Device

Product Name : Remote Control

Model No. : FSHW-2G4-TX-1, FSHW-2G4-TX-2

Model Description : Two models are identical except for the button. Therefore the full tests were performed on model FSHW-2G4-TX-1.

Rated Voltage : Battery 3V (CR2025)

Battery Capacity : ---

Power Adapter : ---

Technical Characteristics of EUT

Frequency Band : 2402-2480MHz

Operating Frequency : 2403MHz, 2423MHz, 2453MHz

Max. Field Strength : 73.86 dB μ V/m

Modulation : GFSK

Quantity of Channels : 3

Channel Separation : 1MHz

Type of Antenna : PCB Antenna

Antenna Gain : 0dBi

2 RF Exposure Exemption

According to S1.1307(b)(3) and 447498 D04 Interim General RF Exposure Guidance v01, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radiofrequency energy level in excess limit for maximum permissible exposure.

FCC Rule Part 1.1307 (b)(3)(i)(A): The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A).

3 RF Exposure Evaluation

Calculated the EIRP from the radiated field strength in the far field using Equation:

$$EIRP = E_{Meas} + 20 \log(d_{Meas}) - 104.7$$

Where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dB μ V/m

d_{Meas} is the measurement distance, in m

4 Calculation Result

Radio Access Technology	Min. Distance (cm)	Prediction Frequency (MHz)	Max. Field Strength (dB μ V/m)	EIRP (dBm)	EIRP (mW)	SAR Test Exclusion Threshold (mW)	Result
SRD	0.5	2423	73.86	-21.30	0.01	1	Pass

=====End of Report=====