RF Exposure Requirements

1 General Information

Client Information

Applicant	:	GUANGDONG ZHIJIAYOUPIN SANITARY WARE TECHNOLOGY CO. ,LTD
Address of applicant	:	H Area, Waihuanxi Road, Guxiang Third Village, Guxiang Town, Chaoan District, Chaozhou City,PRC
Manufacturer	:	The same as above
Address of manufacturer	:	The same as above

General Description of E.U.T

FCC ID	:	2BN7X-SH171
Product Name	:	Remote Controller
Model No.	:	SH171
Model Description	:	---
Rated Voltage	:	Battery 3V (2*1.5V AAA)
Battery Capacity	:	---
Power Adapter	:	---

Technical Characteristics of EUT

Frequency Range	:	2400-2483.5 MHz
Operating Frequency	:	2407MHz, 2437MHz, 2462MHz
Quantity of Channels	:	3
Max. Field Strength	:	78.63 dBμV/m
Modulation	:	GFSK
Channel Separation	:	1MHz
Type of Antenna	:	PCB Antenna
Antenna Gain	:	-10dBi

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 dBµV/m

d_{Meas} is the measurement distance, in m

4 Calculation Result

Radio Access Technology	Min. Distance (cm)	Prediction Frequency (MHz)	Max. Field Strength (dBµV/m)	EIRP (dBm)	EIRP (mW)	SAR Test Exclusion Threshold (mW)	Result
SRD	0.5	2407	78.63	-16.53	0.02	1	Pass

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