

RF Exposure Evaluation

FCC ID: 2AXGU-CH-1

1. Client Information

Applicant	:	Shenzhen Chiheng Industrial Co., Ltd
Address	:	2 / F, 4-2 Shajing Road, dawangshan community, Shajing street, Bao'an District, Shenzhen, China
Manufacturer	:	Shenzhen Chiheng Industrial Co., Ltd
Address	:	2 / F, 4-2 Shajing Road, dawangshan community, Shajing street, Bao'an District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Bluetooth anti loss device
Model(s)	:	CH-1, CH-2, CH-3
Model Difference	:	All PCB boards and circuit diagrams are the same, the only difference is the appearance.
Product Description	Operation Frequency:	Bluetooth 4.2(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 4.2(BLE): 40 channels
	RF Output Power:	-11.431dBm (Max)
	Antenna Gain:	-4dBi PCB Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps
Power Rating	:	Battery Model: CR2032 Capacity: 220mAh Rated Voltage: DC 3V
Software Version	:	N/A
Hardware Version	:	RB-FD01Ver2
Connecting I/O Port(S)	:	Please refer to the User's Manual
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.		

Note: More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}] \leq 7.5.0$ for 10-g SAR

2. Calculation:

Test separation: 5mm						
BLE Mode (1Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-11.431	-11 ± 1	-10	0.10	0.03	3.0
2.442	-11.73	-11 ± 1	-10	0.10	0.03	3.0
2.480	-11.794	-11 ± 1	-10	0.10	0.03	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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