

# TEST REPORT

<b>Product Name</b>	:	Bluetooth Beanie Light
<b>Brand Mark</b>	:	N/A
<b>Model No.</b>	:	EXS-001
<b>Extension model</b>	:	EXS-002, EXS-003, EXS-004, EXS-005, EXS-006
<b>FCC ID</b>	:	2A4RV-BX9RH
<b>Report Number</b>	:	BLA-EMC-202202-A2403
<b>Date of Sample Receipt</b>	:	2022/2/23
<b>Date of Test</b>	:	2022/3/3 to 2022/3/3
<b>Date of Issue</b>	:	2022/3/3
<b>Test Standard</b>	:	47 CFR Part 1.1307, Part 2.1093, KDB 447498
<b>Test Result</b>	:	Pass

Prepared for:

**Shenzhen Bingrenhui Trade Co., LTD**  
**513, No. 20, Area 1, Yangtai Villa, Dalang Street, Longhua District,**  
**Shenzhen**

Prepared by:

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2022/3/3



**REPORT REVISE RECORD**

Version No.	Date	Description
00	2022/3/3	Original

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## 1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

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## 2 GENERAL INFORMATION

<b>Applicant</b>	Shenzhen Bingrenhui Trade Co., LTD
<b>Address</b>	513, No. 20, Area 1, Yangtai Villa, Dalang Street, Longhua District, Shenzhen
<b>Manufacturer</b>	Shenzhen Bingrenhui Trade Co., LTD
<b>Address</b>	513, No. 20, Area 1, Yangtai Villa, Dalang Street, Longhua District, Shenzhen
<b>Factory</b>	Shenzhen Bingrenhui Trade Co., LTD
<b>Address</b>	513, No. 20, Area 1, Yangtai Villa, Dalang Street, Longhua District, Shenzhen
<b>Product Name</b>	Bluetooth Beanie Light
<b>Test Model No.</b>	EXS-001

## 3 GENERAL DESCRIPTION OF E.U.T.

<b>Hardware Version</b>	N/A
<b>Software Version</b>	N/A
<b>Operation Frequency:</b>	2402MHz-2480MHz
<b>Modulation Type:</b>	GFSK, pi/4DQPSK, 8DPSK
<b>Channel Spacing:</b>	1MHz
<b>Number of Channels:</b>	79
<b>Antenna Type:</b>	PCB Antenna
<b>Antenna Gain:</b>	0.68dBi (Provided by the applicant)

#### 4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

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No tests were sub-contracted.

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## 5 RF EXPOSURE COMPLIANCE REQUIREMENT

### 5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 5.2 LIMITS

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

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

$[\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 is applied to determine SAR test exclusion

### 5.3 EUT RF EXPOSURE

Operational Mode: 8-DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	1.035	$\pm 1$	2.035	1.60	0.50	3.0
2441 MHz	-0.663	$\pm 1$	0.337	1.08	0.34	
2480 MHz	-1.776	$\pm 1$	-0.776	0.84	0.26	

Conclusion: the calculated value  $\leq 3.0$ , SAR is exempted.

**----END OF REPORT----**

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