

# **TEST REPORT**

Product Name : LED Bluetooth Beanie Hat

Brand Mark : N/A Model No. : Z1

Extension Model : ZA; ZB; ZC; ZD; ZE; ZF Report Number : BLA-EMC-202206-A8403

FCC ID : 2A7MSZNLZ1

Date of Sample Receipt : 2022/6/22

**Date of Test** : 2022/6/22 to 2022/7/4

**Date of Issue** : 2022/7/4

**Test Standard** 47 CFR Part 1.1307, Part 2.1093, KDB

Test Result : Pass

#### Prepared for:

Shenzhenshi Zhonghuijia Technology Co., LTD 603, No.38, Zone 1, Yangtaishan Village, Tongsheng Community, Dalang Street, Longhua District, Shenzhen

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China

TEL: +86-755-23059481

Compiled by: Charlie Approved by: Blue Thong





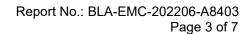


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#### **REPORT REVISE RECORD**

Version No.	Date	Description		
00	2022/7/4	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

Applicant	Shenzhenshi Zhonghuijia Technology Co., LTD			
Address	603, No.38, Zone 1, Yangtaishan Village, Tongsheng Community, Dalang Street, Longhua District, Shenzhen			
Manufacturer	Shenzhenshi Zhonghuijia Technology Co., LTD			
Address	603, No.38, Zone 1, Yangtaishan Village, Tongsheng Community, Dalang Street, Longhua District, Shenzhen			
Factory	Shenzhenshi Zhonghuijia Technology Co., LTD			
Address	603, No.38, Zone 1,Yangtaishan Village, To Bluetooth hat ngsheng Community, Dalang Street, Longhua District, Shenzhen			
Product Name	LED Bluetooth Beanie Hat			
Test Model No.	Z1			
Extension Model	ZA; ZB; ZC; ZD; ZE; ZF			
Remark	All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose			

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

Hardware Version	SST263_V07	
Software Version	V003	
Operation Frequency:	2402MHz-2480MHz	
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK	
Channel Spacing:	1MHz	
Number of Channels:	79	
Antenna Type:	PCB Antenna	
Antenna Gain:	-0.68dBi(Provided by the applicant)	



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## **4 LABORATORY LOCATION**

All tests were performed at:

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

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,

China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

f(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  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.3 EUT RF EXPOSURE

Operational Mode: BT(8-DPSK)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated	Exclusion
Grianner			(dBm)	(mW)	value	threshold
2402 MHz	-2.368	±1	-1.368	0.73	0.23	2.0
2441 MHz	-2.334	±1	-1.334	0.74	0.23	3.0
2480 MHz	-5.632	±1	-4.632	0.34	0.11	1
Conclusion: the calculated value ≤3.0, SAR is exempted.						

#### ----END OF REPORT----

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