TEST REPORT

Product Name	:	Bluetooth Beanie
Brand Mark	:	N/A
Model No.	:	F208
Extension model	:	F209, F210
Report Number	:	BLA-EMC-202206-A8603
FCC ID	:	2A7LG-WSF
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 447498
Test Result	:	Pass

Prepared for:

Shenzhen Hexinchuang Trade Co., LTD
Room 406, No. 3 Workshop, Yufeng Zone, Xitou New Village, Shangfen Community, Minzhi Street, Longhua District, Shenzhen

Prepared by:

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Date: 2022/7/4

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

REPORT REVISE RECORD

Version No.	Date	Description
00	2022/7/4	Original
01	2022/7/6	Product Name changed from Bluetooth hat to Bluetooth Beanie

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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

2 GENERAL INFORMATION

Applicant	Shenzhen Hexinchuang Trade Co., LTD
Address	Room 406, No. 3 Workshop, Yufeng Zone, Xitou New Village, Shangfen Community, Minzhi Street, Longhua District, Shenzhen
Manufacturer	Shenzhen Hexinchuang Trade Co., LTD
Address	Room 406, No. 3 Workshop, Yufeng Zone, Xitou New Village, Shangfen Community, Minzhi Street, Longhua District, Shenzhen
Factory	Shenzhen Hexinchuang Trade Co., LTD
Address	Room 406, No. 3 Workshop, Yufeng Zone, Xitou New Village, Shangfen Community, Minzhi Street, Longhua District, Shenzhen
Product Name	Bluetooth Beanie
Test Model No.	F208
Extension model	F209, F210
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)

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.

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)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 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[17]

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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: BT(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	-2.284	±1	-1.284	0.74	0.23	3.0
2441 MHz	-2.233	±1	-1.233	0.75	0.24	
2480 MHz	-5.7	±1	-4.7	0.34	0.11	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

----END OF REPORT----