

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202503-0094-2

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Maximum Permissible Exposure Evaluation

FCC ID: 2AMIU-VISION6A

Report No.	:	TBR-C-202503-0094-2								
Applicant	1	Shenzhen Benjun Technology Co., LTD								
Equipment Under Test (EUT)										
EUT Name		bluetooth glasses								
Model No.		Vision 6A								
Series Model No.	ā : 1	Vision 7A, Vision 8A								
Brand Name	¥ .	Emzwin; Emqqaa; 尔轻松								
Sample ID		HC-C-202503-0094-02-1# & HC-C-202503-0094-02-2#								
Receipt Date		2025-03-14								
Test Date : Issue Date : Standards :		2025-03-14 to 2025-03-26 2025-03-26 FCC Part 2.1093								
						Test Method :		KDB 447498 D01 General RF Exposure Guidance v06		
						Conclusions :		PASS		
		In the configuration tested, the EUT complied with the standards specified above.								
Test By Reviewed By		: Gold . zhang Emily Tang								
Approved By	a	: IVAN SV Ivan Su								

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



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Revision History

Report No.	Version	Description	2025-03-26	
TBR-C-202503-0094-2	Rev.01	Initial issue of report		
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1. General Information about EUT

1.1 Client Information

Applicant		Shenzhen Benjun Technology Co., LTD	
Address		8-709 Runcheng garden xili town, Nanshan District, Shenzhen City, Guangdong province, China	
Manufacturer		Shenzhen Benjun Technology Co., LTD	
Address		8-709 Runcheng garden xili town, Nanshan District, Shenzhen City, Guangdong province, China	

1.2 General Description of EUT (Equipment Under Test)

EUT Name		bluetooth glasses				
Models No.	•	Vision 6A, Vision 7A, Vision 8A				
Model Different	ŀ	All PCB boards an difference is that fi	All PCB boards and circuit diagrams are the same, the only difference is that frames.			
Product Description		Operation Frequency:	Bluetooth V5.0: 2402MHz~2480MHz			
		Modulation Type:	Bluetooth: GFSK, Pi/4-DQPSK, 8DPSK			
4000		Antenna Gain:	1.0dBi Ceramic Antenna			
Power Rating		Input: DC 5V				
Li-ion Polymer Battery	÷	3.7V by 180mAh Rechargeable Li-ion battery				
Software Version	:	1.0				
Hardware Version	:	1.0				
Tidi divare version		1.0				

Remark: The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.





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2. Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.





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3. SAR Test Exclusion Calculations

4.1 FCC: According to KDB 447498 D01 v06 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:

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

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

4.2 Summary simultaneous transmission for SAR Exclusion

The SAR exemption limits outlined in clause 4.3.2(b) of KDB 447498 have been derived based on an approximate SAR value of 0.4 W/kg using half-wave dipole antennas Footnote 1. As such, when simultaneous transmitter SAR evaluations include transmitters that have been exempt from routine SAR evaluation, the SAR must be estimating based on the ratio between the maximum tune-up tolerance limit of the transmitter that has been exempt and the exemption limit at the specific distance and frequency for that transmitter. This ratio must be multiplied by 0.4 W/kg (2.0 W/kg for controlled use and 1.0 W/kg for limb worn devices) in order to calculate the estimated SAR level.

The estimate SAR value is calculated based the following equation:

(maximum power level including tune-up tolerance for transmitter A / maximum power level of exemption at the same frequency and distance) * 0.4W/kg

- 1) [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[$\sqrt{f_{(GHz)}/x}$] W/kg, for test separation distances \leq 50 mm;
 - where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.
- 2) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the *test separation distance* is > 50 mm.³⁷

The [\sum of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [\sum of MPE ratios] is \leq 1.0.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [\sum of MPE ratios] is ≤ 1.0 .





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4.3 Calculation:

Test sepa	ration: 5mm					
		В	uetooth Mode (GFSK)		MARCH	
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	3.791	4±1	5	3.162	0.980	3.0
2.441	3.767	4±1	5	3.162	0.988	3.0
2.480	4.035	4±1	5	3.162	0.996	3.0
AURT	CHI.	Bluet	tooth Mode (Pi/4-DQPS	K)	THE	~ (1)
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	4.224	4±1	5	3.162	0.980	3.0
2.441	3.934	4±1	5	3.162	0.988	3.0
2.480	3.734	4±1	5	3.162	0.996	3.0
		Blu	uetooth Mode (8-DPSK)			anb.
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	4.833	5±1	6	3.981	1.234	3.0
2.441	4.513	5±1	6	3.981	1.244	3.0
2.480	4.308	4±1	5	3.162	0.996	3.0

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 D01 v06.

----END OF THE REPORT----

