

TEST REPORT

Applicant: Hubei Xingji Meizu Group Co., Ltd.
Address: No. B1345, Chuanggu Start-up Area, No. 18,
Shenlong Avenue, Wuhan, Hubei, China
Equipment Type: AR Glasses
Model Name: XGA010C
Brand Name: MYVU
FCC ID: 2BHGZ-XGA010C
Test Standard: 47 CFR Part 2.1093
KDB 447498 D01 v06
Sample Arrival Date: Jul. 03, 2024
Test Date: Jul. 19, 2024
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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(Testing Director)

Tolan Tu

Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Jul. 22, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input checked="" type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Hubei Xingji Meizu Group Co., Ltd.
Address	No. B1345, Chuanggu Start-up Area, No. 18, Shenlong Avenue, Wuhan, Hubei, China

2.2 Manufacturer Information

Manufacturer	Hubei Xingji Meizu Group Co., Ltd.
Address	No. B1345, Chuanggu Start-up Area, No. 18, Shenlong Avenue, Wuhan, Hubei, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	AR Glasses
Model Name Under Test	XGA010C
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1
Software Version	Flyme AR 0.1.1.837.2024XXXX_Air_intl_FR
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE)
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	Bluetooth	
Frequency Range	Bluetooth	2400 ~ 2483.5 MHz
Antenna Type	Bluetooth	PIFA
Exposure Category	General Population/Uncontrolled Exposure	
Product Type	Portable Device	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D01 v06	KDB 447498 General RF Exposure Guidance D01 v06

3.2 Limit Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices

4 DEVICE CATEGORY AND LEVELS LIMITS

Portable Devices:

CFR Title 47 §2.1093(b)

(b) For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

FCC KDB 447498 D01 General RF Exposure Guidance v06 Limit

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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.

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:

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

Where

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- 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 ASSESSMENT RESULT

5.1 Output Power

Mode	Bluetooth		
	Low Channel	Middle Channel	High Channel
Conducted Power (dBm)	7.74	8.73	8.99
Antenna Gain (dBi)	-2.2		
EIRP(dBm)	5.54	6.53	6.79
Note: This table listed the worst case power value, please refer to BL-SH2470377-601 report for more details.			

Mode	Bluetooth		
	GFSK (BLE)		
	Low Channel	Middle Channel	High Channel
Conducted Power (dBm)	4.49	5.53	5.76
Antenna Gain (dBi)	-2.2		
EIRP(dBm)	2.29	3.33	3.56
Note: This table listed the worst case power value, please refer to BL-SH2470377-602 report for more details.			

5.2 Turn-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
Bluetooth	[7.00, 9.00]	[4.80, 6.80]	[2.65, 4.65]

5.3 RF Exposure Evaluation Result

Mode	Distance (mm)	Calculation Frequency (GHz)	Tune-up limit power (dBm)	Tune-up limit power (mW)	Calculation Results	Threshold Value	Verdict
Bluetooth	5	2.48	9.00	7.94	2.50	3	Compliance

5.4 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

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--END OF REPORT--