

TEST REPORT

Applicant: Chongqing Huiye lot Technology Co., Ltd.

Address: No.4 Of No.6 Comprehensive Tax Avenue,

Shapingba Districh, Chongqing, China

Equipment Type: Intelligent display instrument

Model Name: HS01

Brand Name: Huiye

FCC ID: 2A5B3-HS01

Test Standard: 47 CFR Part 2.1091 KDB 447498 D04 v01

Sample Arrival Date: Apr. 05, 2024

Test Date: Apr. 11, 2024 - Apr. 28, 2024

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ISSUED BY:

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Shenzhen BALUN Technology Co., Ltd.

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(Testing Director)

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Revision History

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Revisions Content

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Initial Issue

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name Shenzhen BALUN Technology Co., Ltd.			
	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi		
	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.		
Logotion	China		
Location	☐ 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	The laboratory is a testing organization accredited by FCC as a		
Certificate	accredited testing laboratory. The designation number is CN1196.		



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2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Chongqing Huiye lot Technology Co., Ltd.
Addroop	No.4 Of No.6 Comprehensive Tax Avenue, Shapingba Districh,
Address	Chongqing, China

2.2 Manufacturer Information

Manufacturer	Chongqing Huiye lot Technology Co., Ltd.		
Addraga	No.4 Of No.6 Comprehensive Tax Avenue, Shapingba Districh,		
Address	Chongqing, China		

2.3 General Description for Equipment under Test (EUT)

EUT Name	Intelligent display instrument		
Model Name Under Test	HS01		
Series Model Name	N/A		
Description of Model	NI/A		
name differentiation	N/A		
Hardware Version	HS01_V1.01		
Software Version	N/A		
Dimensions (Approx.)	N/A		
Weight (Approx.)	N/A		

2.4 Technical Information

Network and Wireless	Bluetooth BLE
connectivity	Bidetootii BEE

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 PCB Antenna		
Exposure Category	General Population/Uncontrolled Exposure		
Product Type	Mobile Device		

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Report No.: BL-SZ2440258-701



3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title		
1 47 CFR Part 2.1091		Radiofrequency radiation exposure evaluation: mobile devices		
2 KDB 447498 D04 v01		447498 D04 Interim General RF Exposure Guidance v01		



DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

(b) For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP20cm in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm }}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B.1)

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).



$$P_{\text{th (mW)}} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B.2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

					Dis	stance	(mm)				
		5	10	15	20	25	30	35	40	45	50
$\overline{\mathbf{z}}$	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	2450	3	10	_ 22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

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ASSESSMENT RESULT

5.1 Output Power

Mode	Bluetooth			
Conducted Power (dBm)	3.02			
Antenna Gain (dBi)	-4.37			
EIRP (dBm)	-1.35			
Note: This report listed the maximal case power value, please refer to BL-SZ2440258-601 report for more details.				

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
Bluetooth	[1.50, 3.50]	[-2.87, -0.87]	[-5.02, -3.02]

Note1: ERP= EIRP -2.15dB.

Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

Evolution mode	Maximum power	Maximum power	Distance	Threshold Power	Verdict
	(dBm)	(mw)	(mm)	(mW)	
Bluetooth	3.50	2.24	200	3060.00	Pass

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--