

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	HBF001	
	PART NAME	WIFI antenna assembly	
	FREQUENCY	2400-2500MHz	
	ZTX NO.	2.00001763	
	DATE	2026-05-12	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark:

Sign:

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Shuman.Ma	Chenyu.Liu	



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ANTENNA SPECIFICATION

CUS P/N: HBF001_WIFI antenna assembly

Application Date: May, 12, 2026

Rev: R:A0

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Revision history

Edition	Date	state
A0	2026-05-12	First edition

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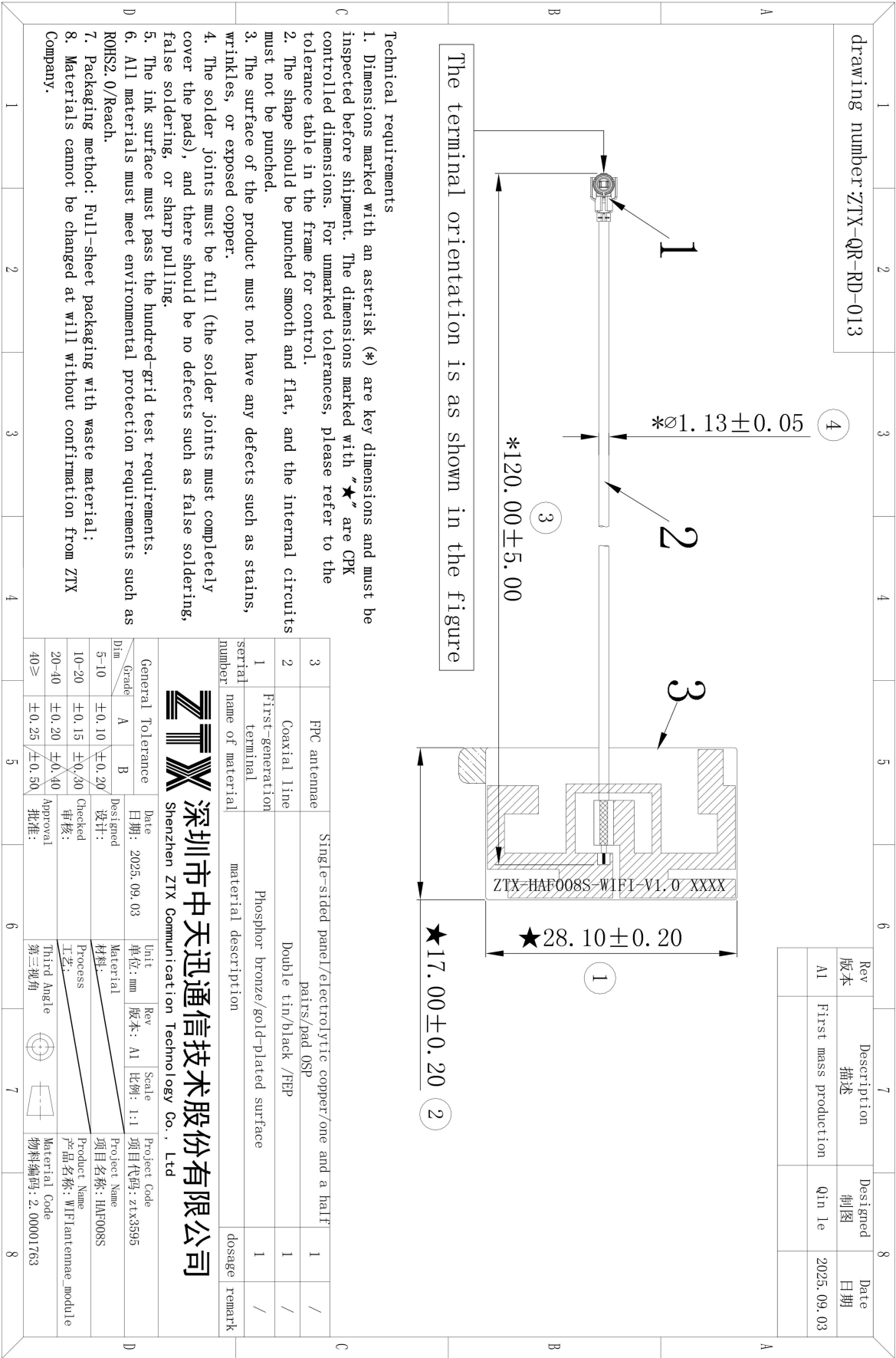
Editor:

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1. Mechanical Specification
1-1 Mechanical Configuration (WiFi antenna assembly)



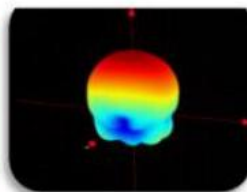
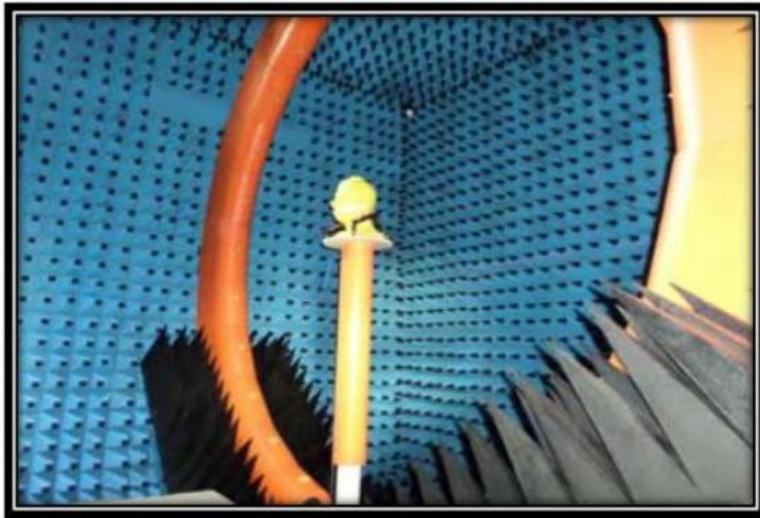
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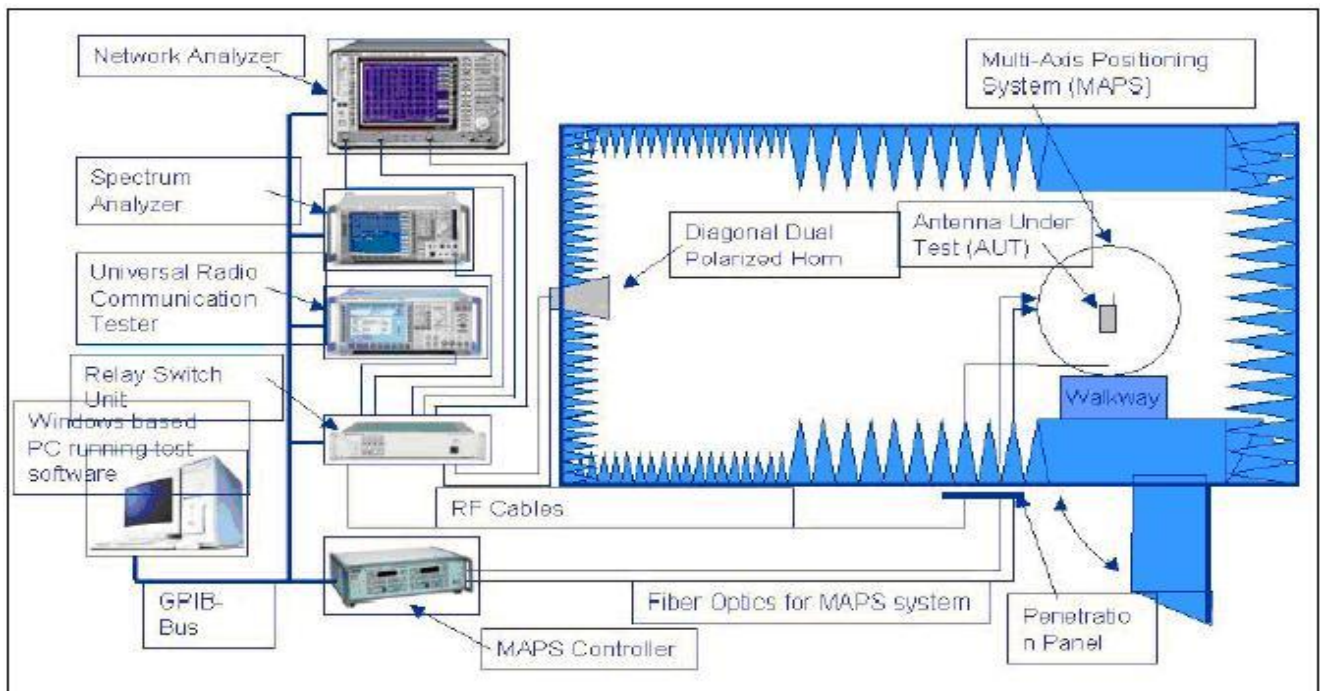
2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



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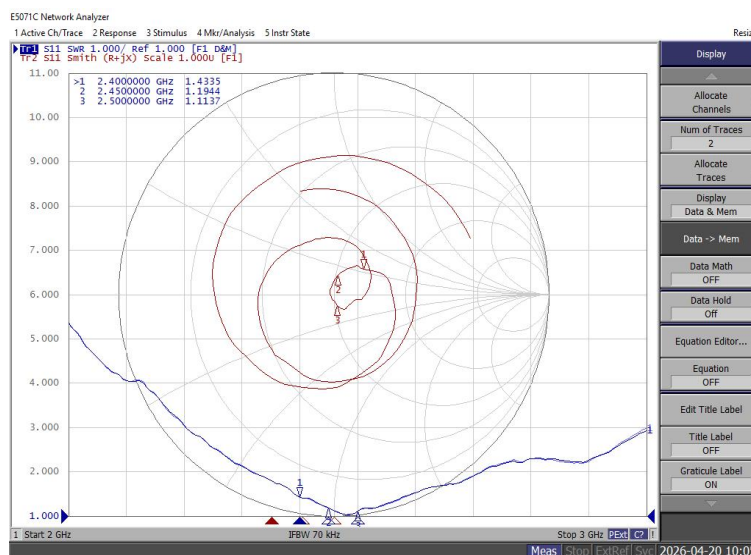
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3. Test Results Summary

3-1 Active test

Mode	Channels	TRP	TIS
B (11M/11M)	1	16.68	-85.05
	6	16.98	-85.21
	11	17.05	-85.24
G (6M/54M)	1	15.35	-72.58
	6	15.55	-72.58
	11	15.91	-72.94
N (MCS0/MCS7)	1	15.28	-69.86
	6	15.09	-69.03
	11	15.62	-69.61

3-2 S11



3-3 Passive test

Frequency(MHz)	Efficiency	Efficiency . dB	Gain . dBi
2400	67%	-1.71	3.41
2410	65%	-1.84	3.36
2420	66%	-1.77	3.56
2430	69%	-1.65	3.68
2440	69%	-1.65	3.61
2450	66%	-1.77	3.40
2460	65%	-1.84	3.23
2470	66%	-1.79	3.45
2480	65%	-1.86	3.40
2490	65%	-1.84	3.52
2500	67%	-1.74	3.88

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3-4 2D/3D Radiation Pattern Results

