

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	HSH041	
	PART NAME	WIFI antenna assembly	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00002214	
	CUSTOMER	2026-05-20	

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	Zishen.Li	



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ANTENNA SPECIFICATION

CUS P/N: HSH041_WIFI antenna assembly

Application Date: May, 20, 2026

Rev: R:A0

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Revision history

Edition	Date	state
A0	2026-05-20	First edition

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ANTENNA SPECIFICATION

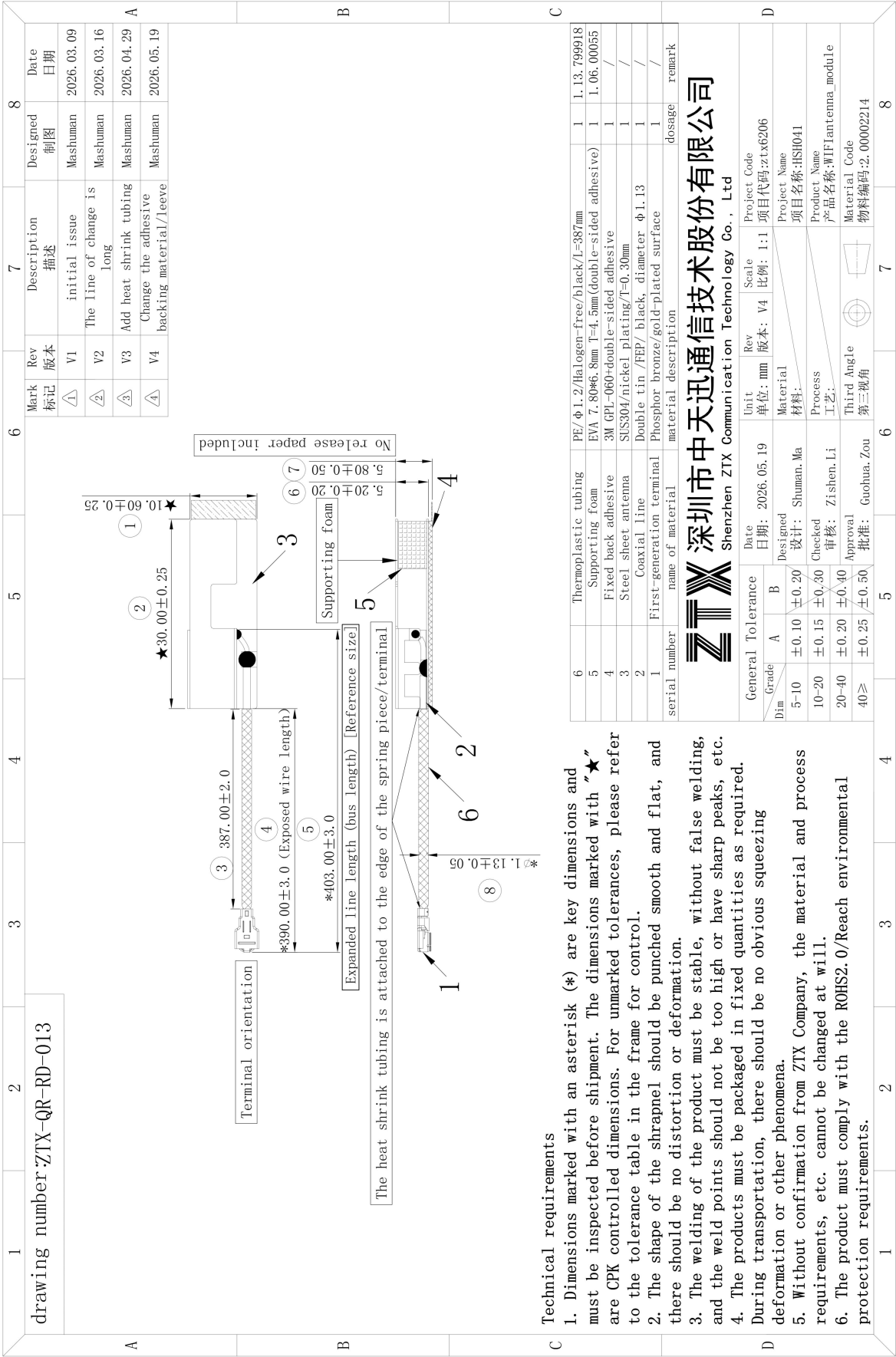
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1. Mechanical Specification

1-1 Mechanical Configuration(WIFI antenna assembly)



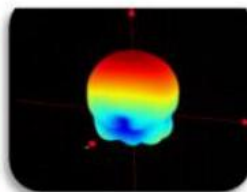
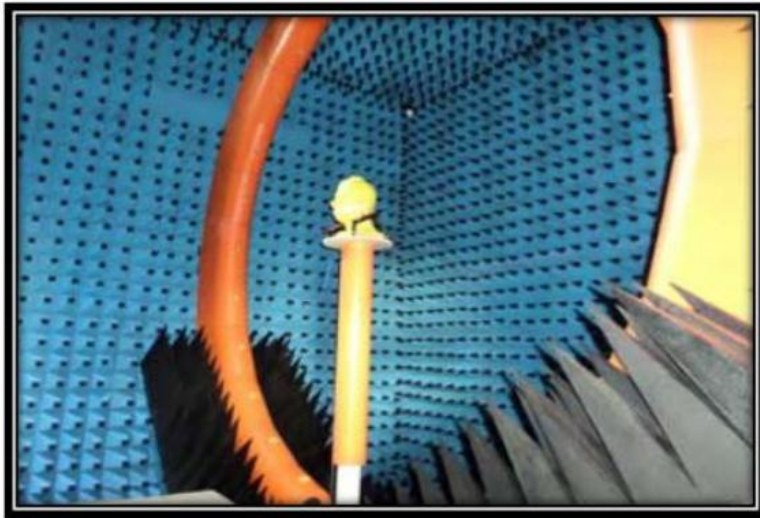
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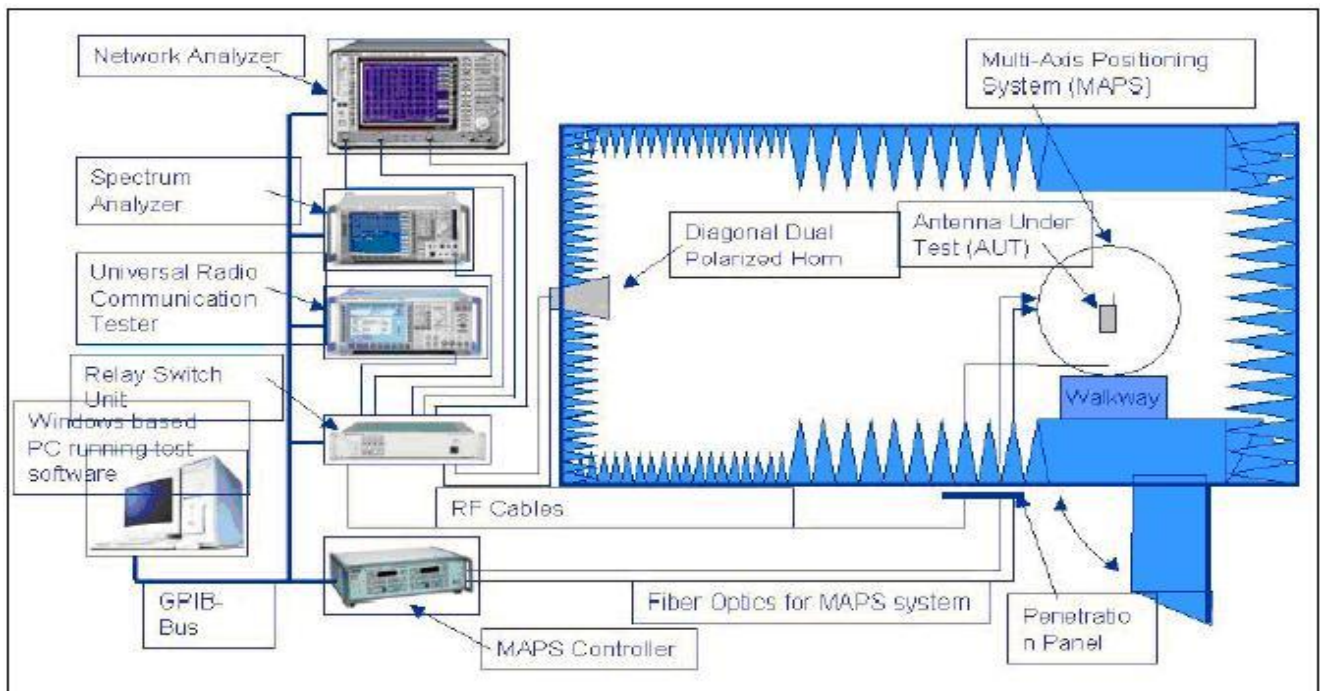
2. Test equipment



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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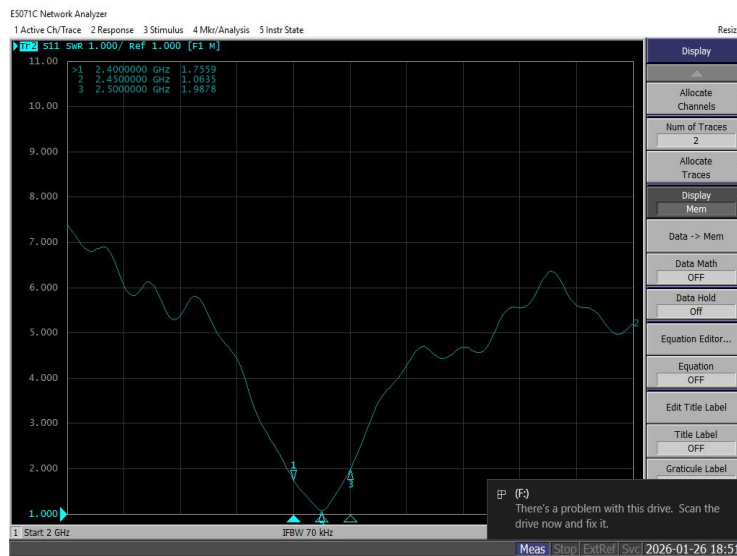
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3. Test Results Summary

3-1 Active test

11b	TRP (11M)	TIS (11M)
1	15.75	-85.79
6	16.28	-86.51
11	15.39	-85.61
11g	TRP (6M)	TIS (54M)
1	15.25	-73.38
6	15.86	-73.89
11	15.01	-73.29
11g/n	TRP (6.5M)	TIS (65M)
1	15.43	-70.71
6	15.72	-70.83
11	14.9	-70.45

3-2 S11



3-3 Passive test

Frequency(MHz)	Efficiency	Efficiency . dB	Gain . dBi
2400	42%	-3.73	0.77
2410	44%	-3.61	1.03
2420	48%	-3.16	1.73
2430	52%	-2.87	2.08
2440	53%	-2.73	2.20
2450	54%	-2.71	2.56
2460	53%	-2.78	2.61
2470	51%	-2.91	2.42
2480	49%	-3.10	2.31
2490	46%	-3.42	1.95
2500	42%	-3.77	1.59

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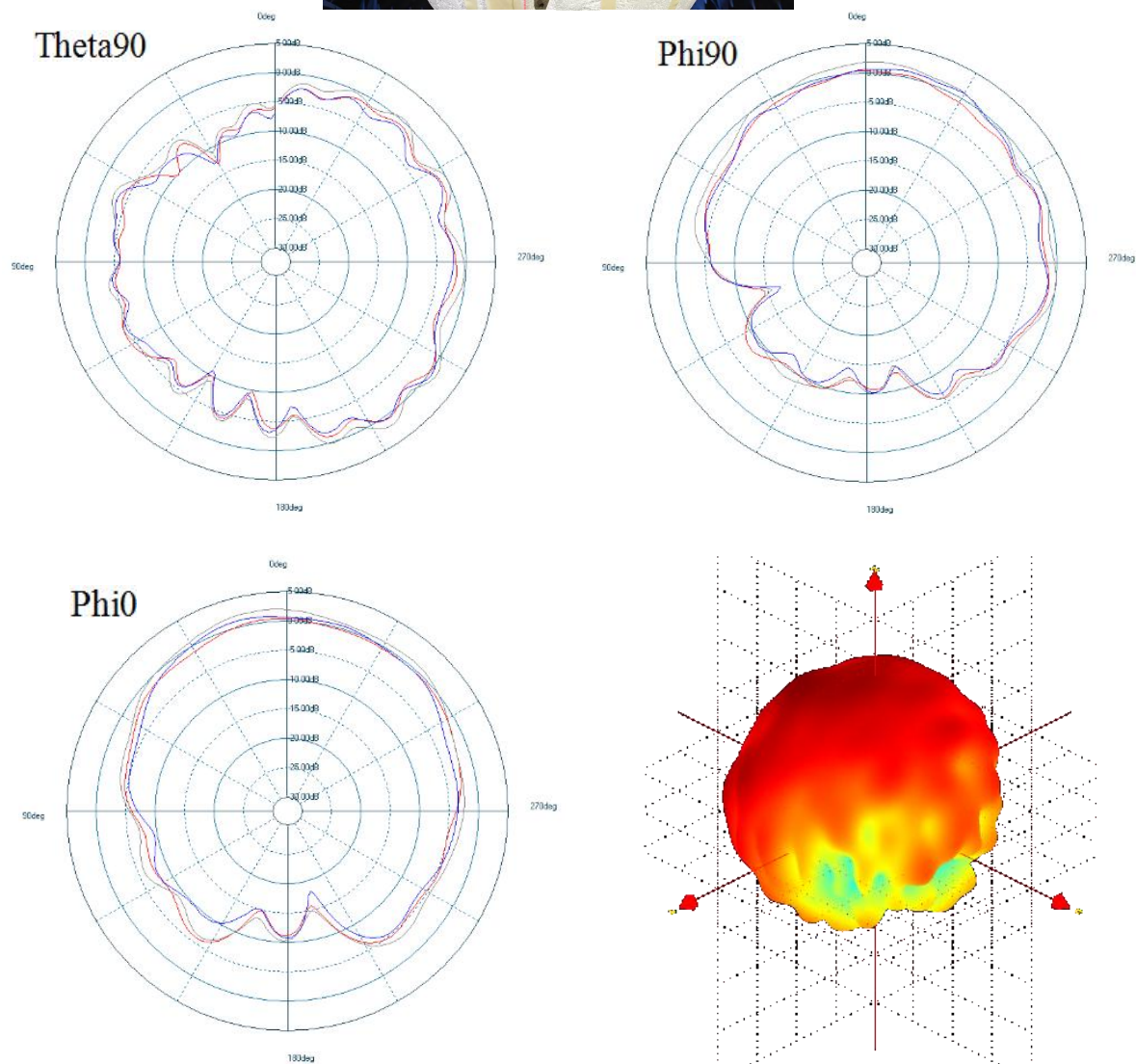
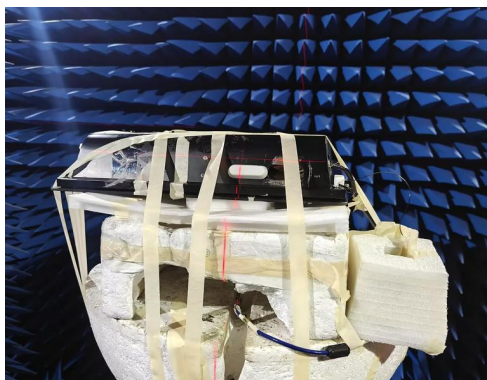
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3-4 2D/3D Radiation Pattern Results



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3-5 Environmental treatment

