

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	HHM021S	
	PART NAME	WIFI antenna assembly	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00002536	
	DATE	2026-04-08	

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	Zebin.Zhang	



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ANTENNA SPECIFICATION

CUS P/N:HHM021S_WIFI antenna assembly

Application Date:Apr,08,2026

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Page 1 of 6

Revision history

Edition	Date	state
A0	2026-04-08	First edition

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Page 2 of 6

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification(WIFI antenna assembly)	3
2		Test equipment	4
3		Test Results Summary	5
	3-1	Active Test	5
	3-2	VSWR	5
	3-3	Passive Test	5
	3-4	2D/3D Radiation Pattern Results	6
	3-5	Environmental treatment	6

ANTENNA SPECIFICATION

Application Date: Apr, 08, 2026

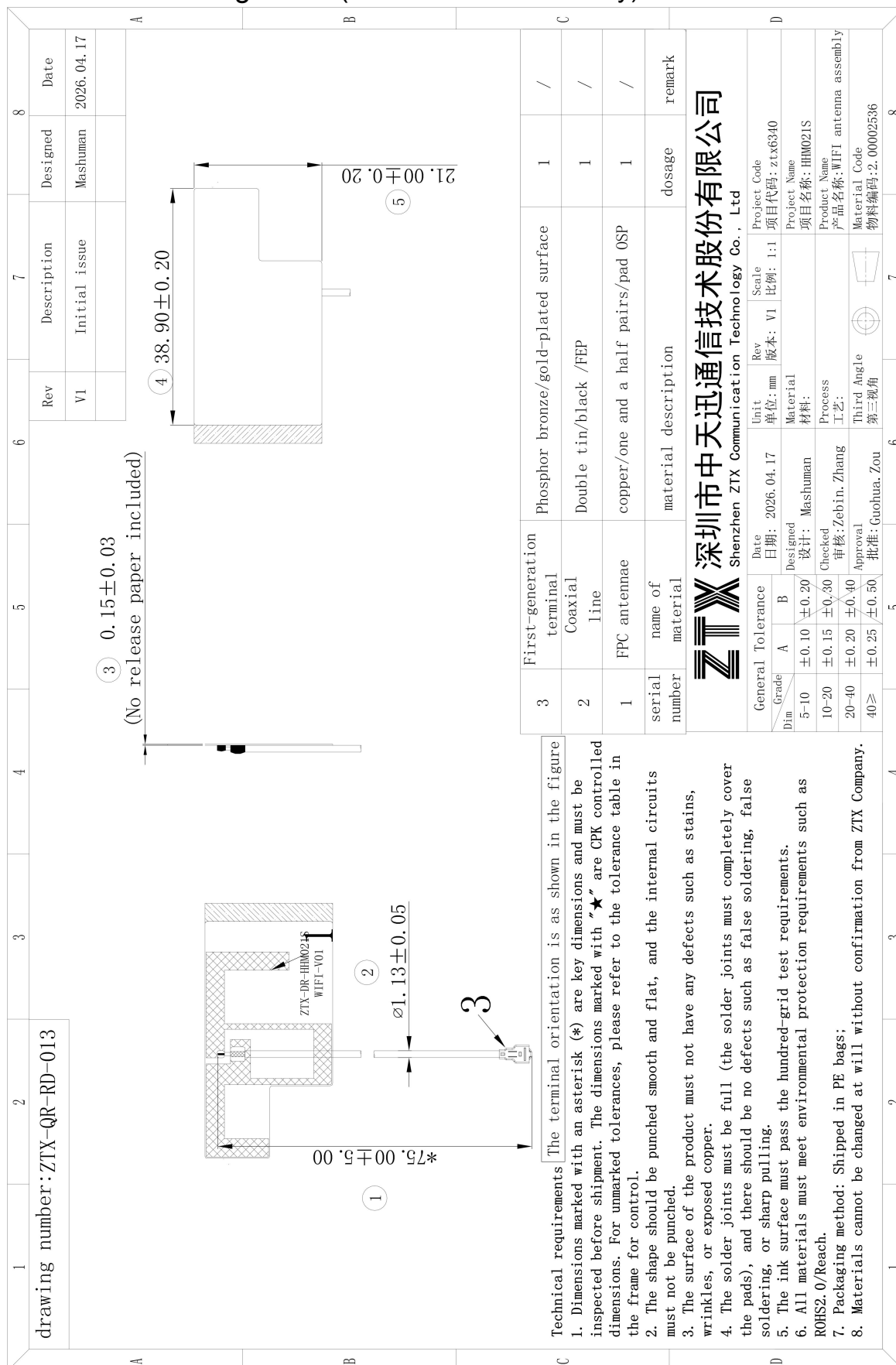
Rev: R:A0

Editor:

Page 3 of 6

1. Mechanical Specification

1-1 Mechanical Configuration(WIFI antenna assembly)



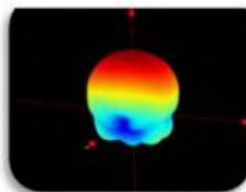
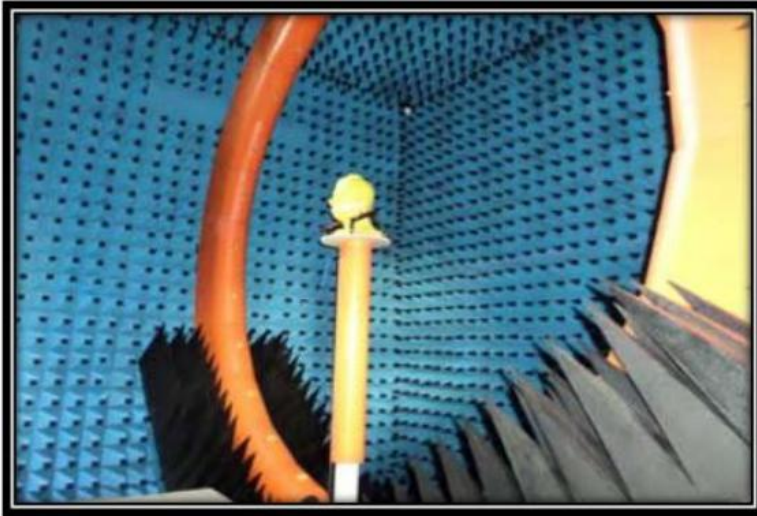
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Editor:

Rev: R:A0
Page 4 of 6

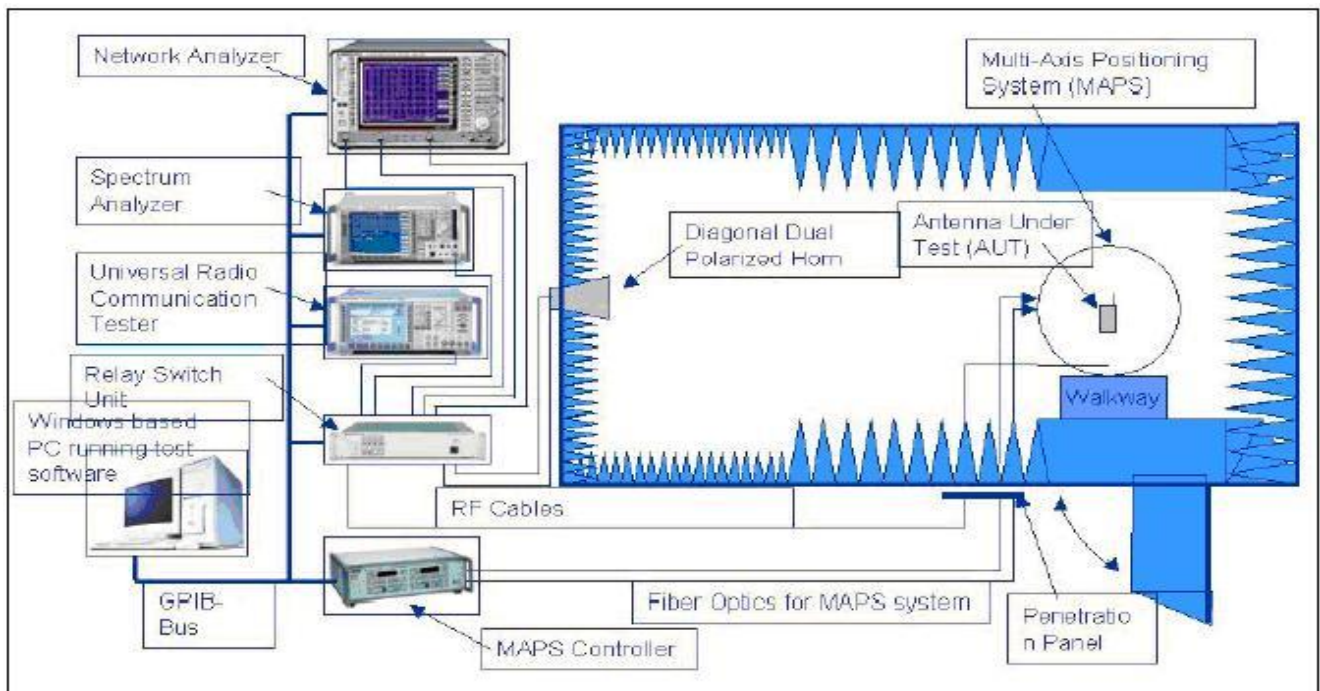
2. Test equipment



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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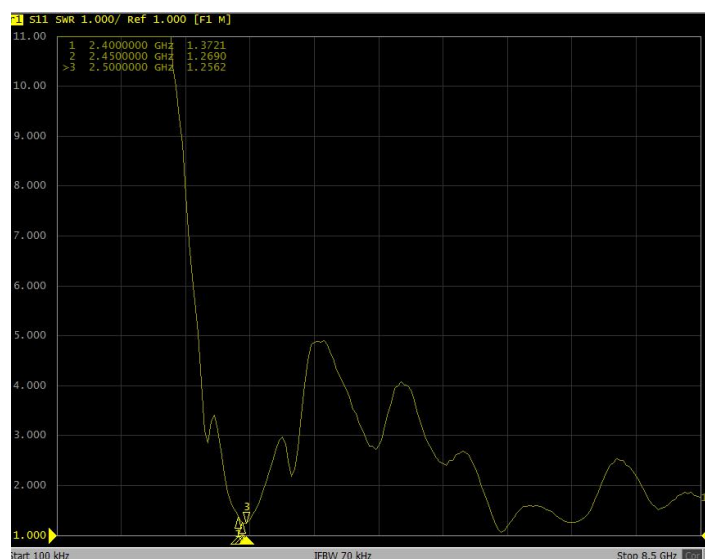
Rev: R:A0
Page 5 of 6

3.Test Results Summary

3-1 Active Test

b	TRP	TIS
1	16.52	-84.39
7	17.16	-84.81
13	16.84	-84.25
g	TRP	TIS
1	15.97	-71.84
7	15.94	-71.08
13	15.87	-71.30
n	TRP	TIS
1	14.97	-68.11
7	14.90	-68.31
13	14.85	-68.85

3-2 VSWR



3-3 Passive Test

Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dBi
2400	67%	-1.75	5.19
2410	66%	-1.79	5.06
2420	66%	-1.78	5.08
2430	68%	-1.69	4.98
2440	69%	-1.63	4.84
2450	69%	-1.61	4.62
2460	69%	-1.62	4.68
2470	68%	-1.67	4.32
2480	68%	-1.69	4.30
2490	67%	-1.73	4.42
2500	67%	-1.74	4.67

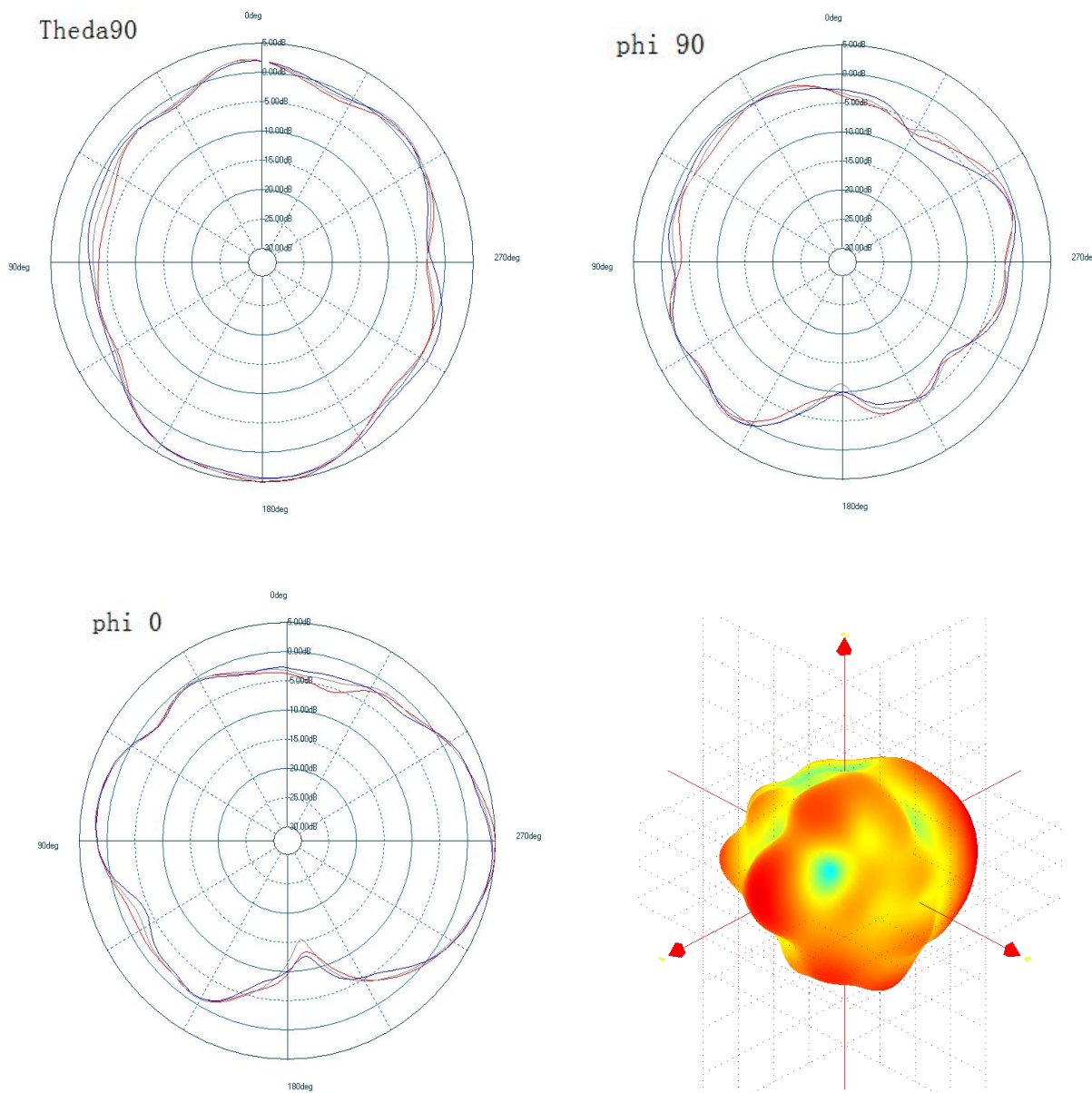
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Page 6 of 6

3-4 2D/3D Radiation Pattern Results



3-5 Environmental treatment

