

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	DR-HAP005S	
	PART NAME	WIFI antenna components	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00001455	
	DATE	2024-12-09	

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
		Youjie.Ke	Xiangrong.Zhou	



Shenzhen ZTX Communication Technology Co., Ltd

Address: No.34, Shilong Avenue, Shiyao Town, Baoan District, Shenzhen, (Tengda Industrial Park) 518000

Tel.: 0755-27588320 Fax: 0755-27588045 <http://www.chinaztx.com>

ANTENNA SPECIFICATION

Revision history

Edition	Date	state
A0	2024-12-09	First edition

ANTENNA SPECIFICATION

CUS P/N:HAP005_WIFI antenna components

Application Date:Dec,09,2024

Rev: R:A0

ZTX P/N :HAP005_WIFI antenna components

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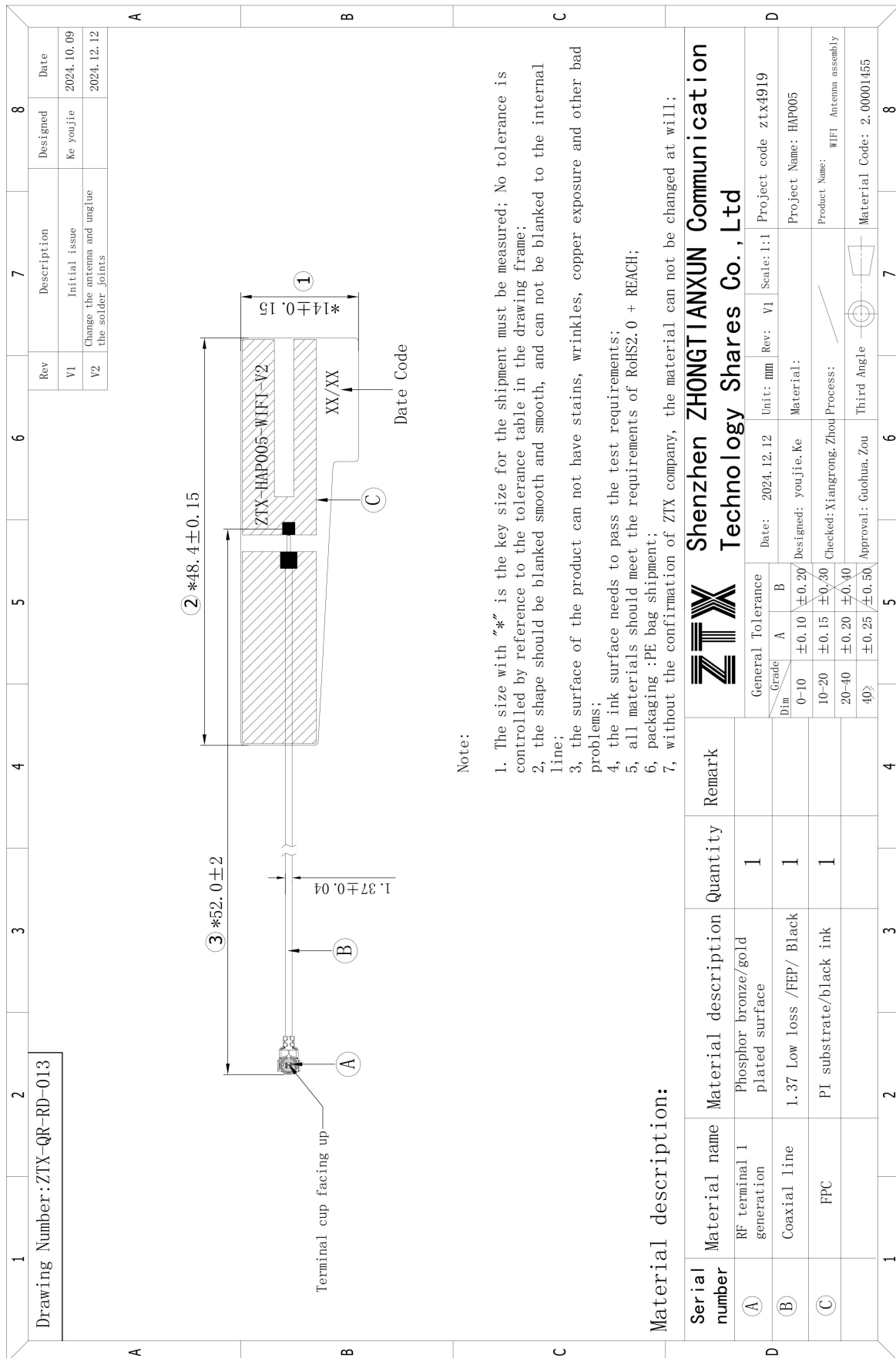
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna components)



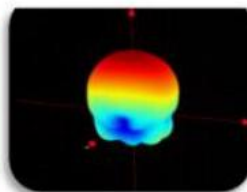
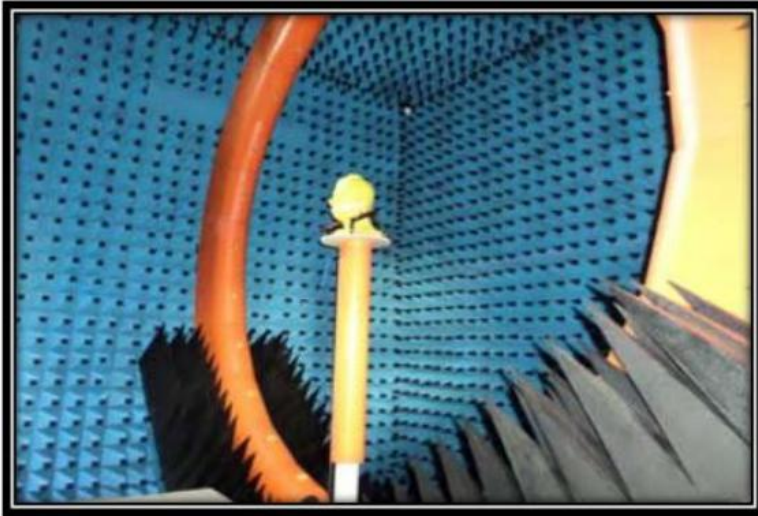
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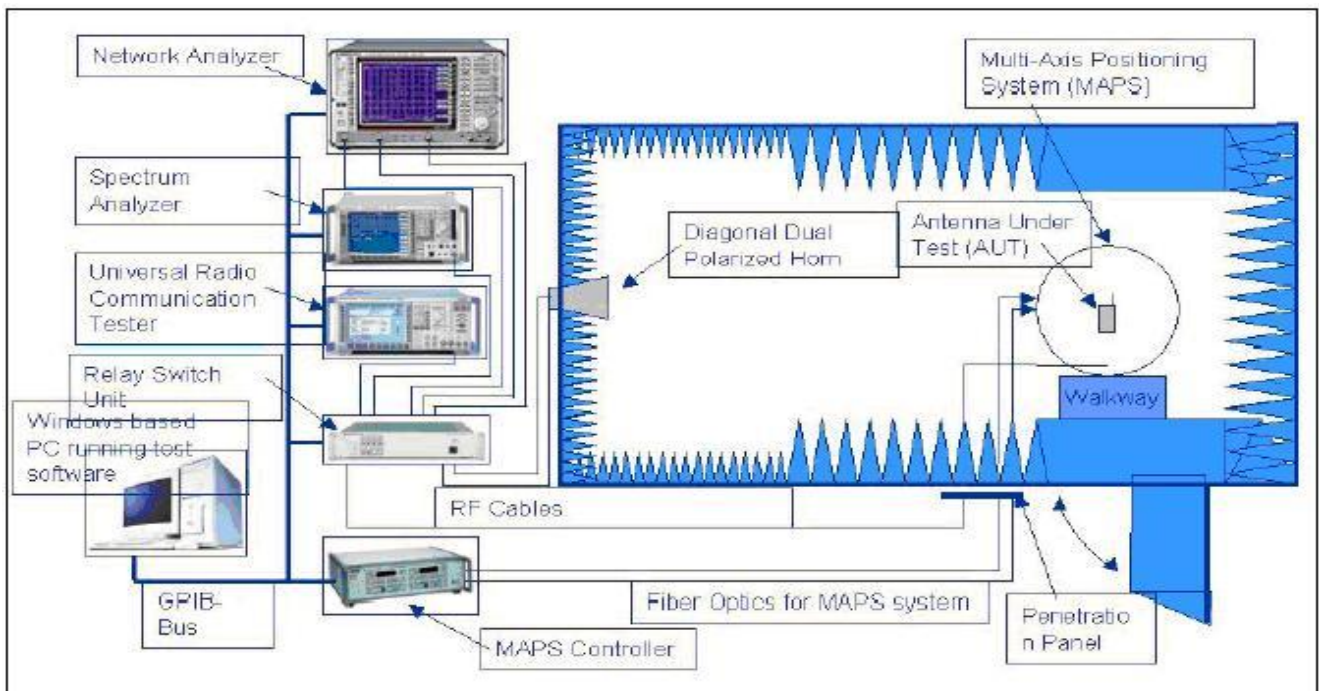
2. Test equipment



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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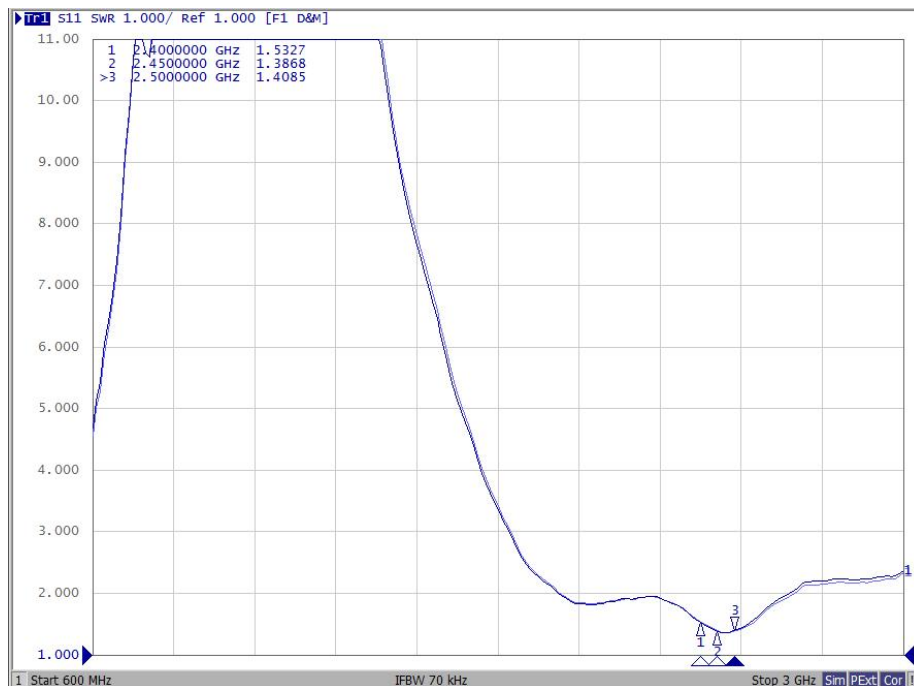
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3.Test Results Summary

3-1 Active Test

B			G			N		
Channel	TRP	TIS	Channel	TRP	TIS	Channel	TRP	TIS
1	15.22	-81.2	1	13.2	-70.39	1	11.39	-64.66
6	15.16	-80.96	6	13.12	-69.36	6	11.37	-63.46
11	15.04	-81.24	11	13.05	-69.65	11	11.11	-64.93

3-2 VSWR



3-3 No-source test data

Frequency	Efficiency		Peak Gain
	%	db	db
2400	68%	-1.65	3.66
2410	67%	-1.73	3.64
2420	66%	-1.79	3.64
2430	67%	-1.71	3.93
2440	68%	-1.68	4.11
2450	66%	-1.79	4.05
2460	66%	-1.83	3.87
2470	65%	-1.87	3.71
2480	64%	-1.93	3.69
2490	63%	-2.00	3.50
2500	65%	-1.85	3.62

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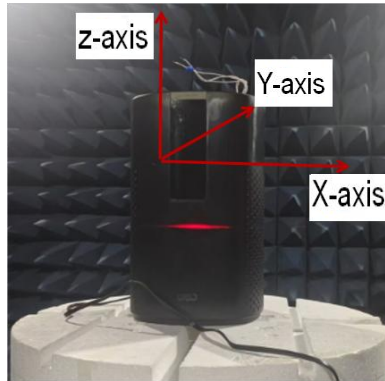
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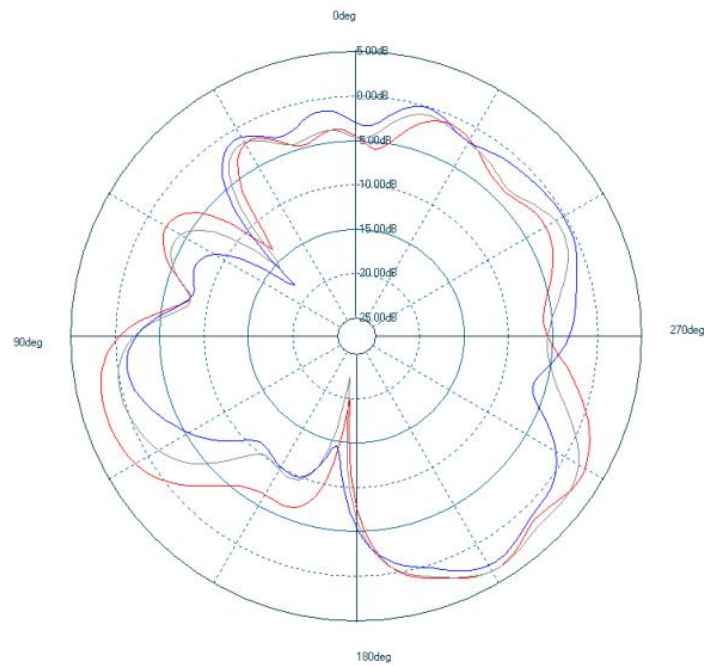
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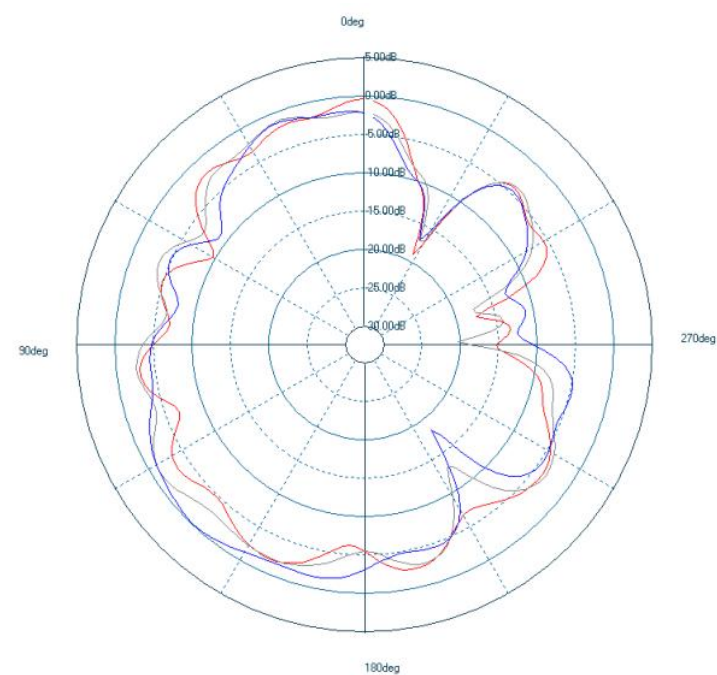
3-4 2D/3D Radiation Pattern Results



xoy



xoz



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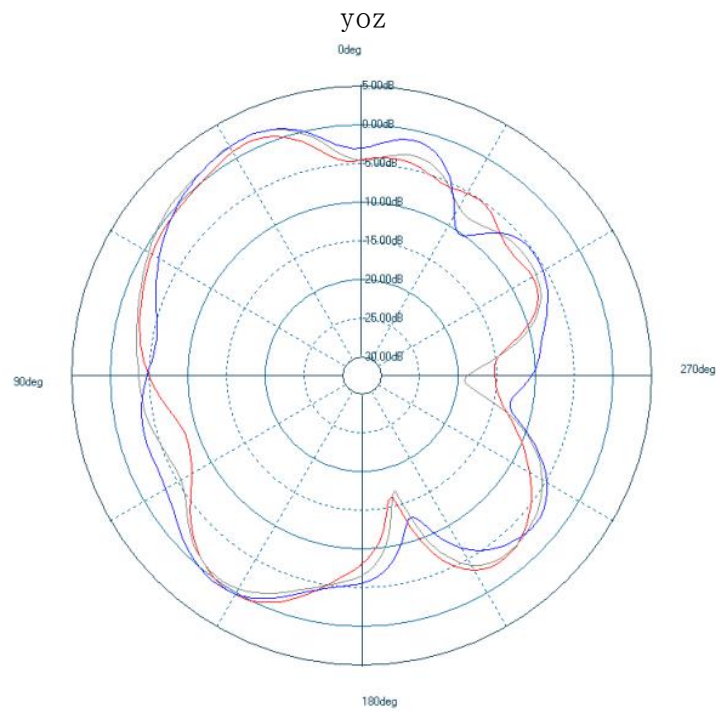
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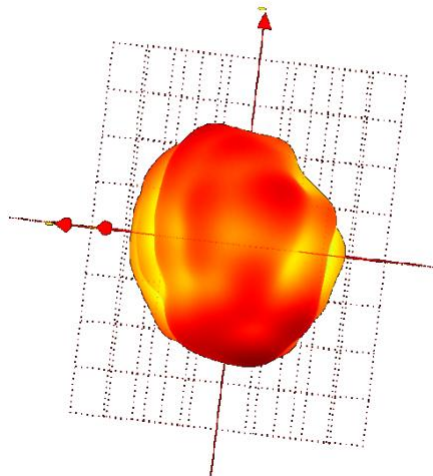
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Legend

— 2400.00(MHz)
— 2450.00(MHz)
— 2500.00(MHz)



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3-5 Environmental treatment

