

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung	
	CS P/N	DR-HPF007S	
	PART NAME	WIFI antenna module	
	FREQUENCY	2.4~2.5GHz	
	ZTX NO.	2.00000702	
	DATE	2023-11-14	

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
		Chen Zhengwei	Gu Jinping	



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ANTENNA SPECIFICATION

CUS P/N :DR-HPF007S

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Revision history

edition	date	state
A0	2023-11-14	first edition

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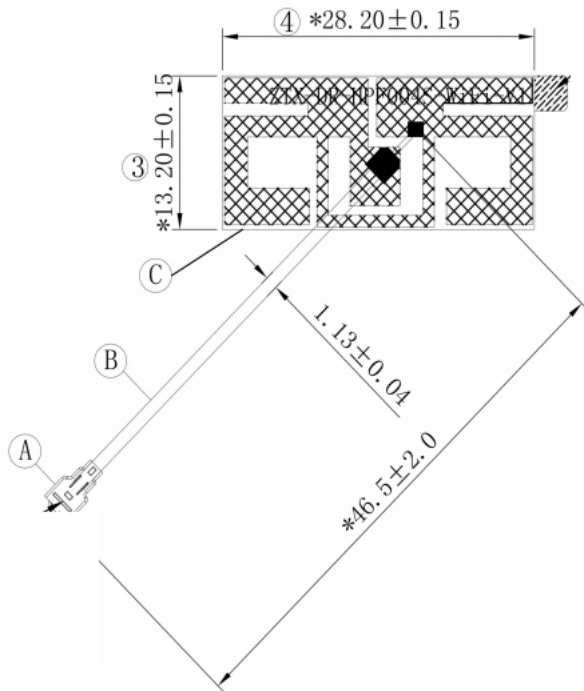
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1 Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna product)

WIFI antenna type: FPC + coaxial cable



Shenzhen Zhongtianxun Communication Technology Co., Ltd

General Tolerance			Date	Unit	Rev	Scale	Project Code
			: 2025.01.09	mm	V1	: 1:1	:ztx5161
Dim	Grade	A	B	Designed		Material	
0-10	±0.10	±0.20	±0.30	Checked		Process	
10-20	±0.15	±0.30	±0.40	Approval		Third Angle	
20-40	±0.20	±0.40	±0.50			Project Name	
40≥	±0.25	±0.50	±0.60			Product Name	
						Material Code	
						:2.00001595	

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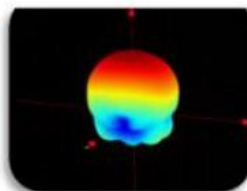
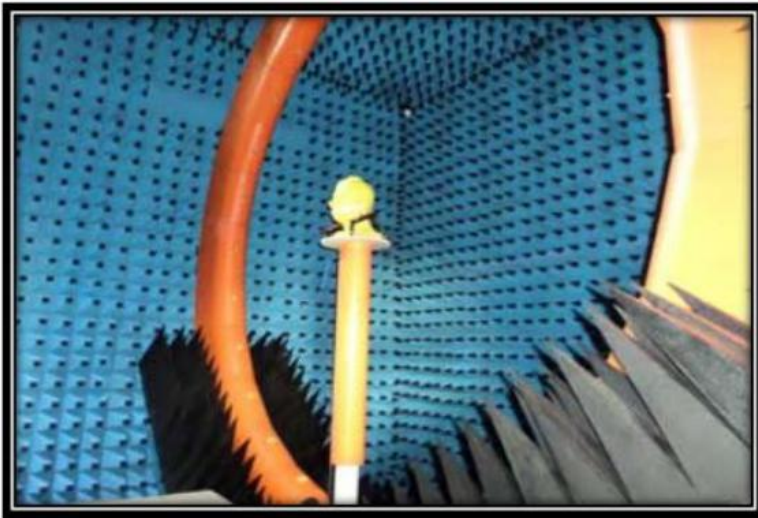
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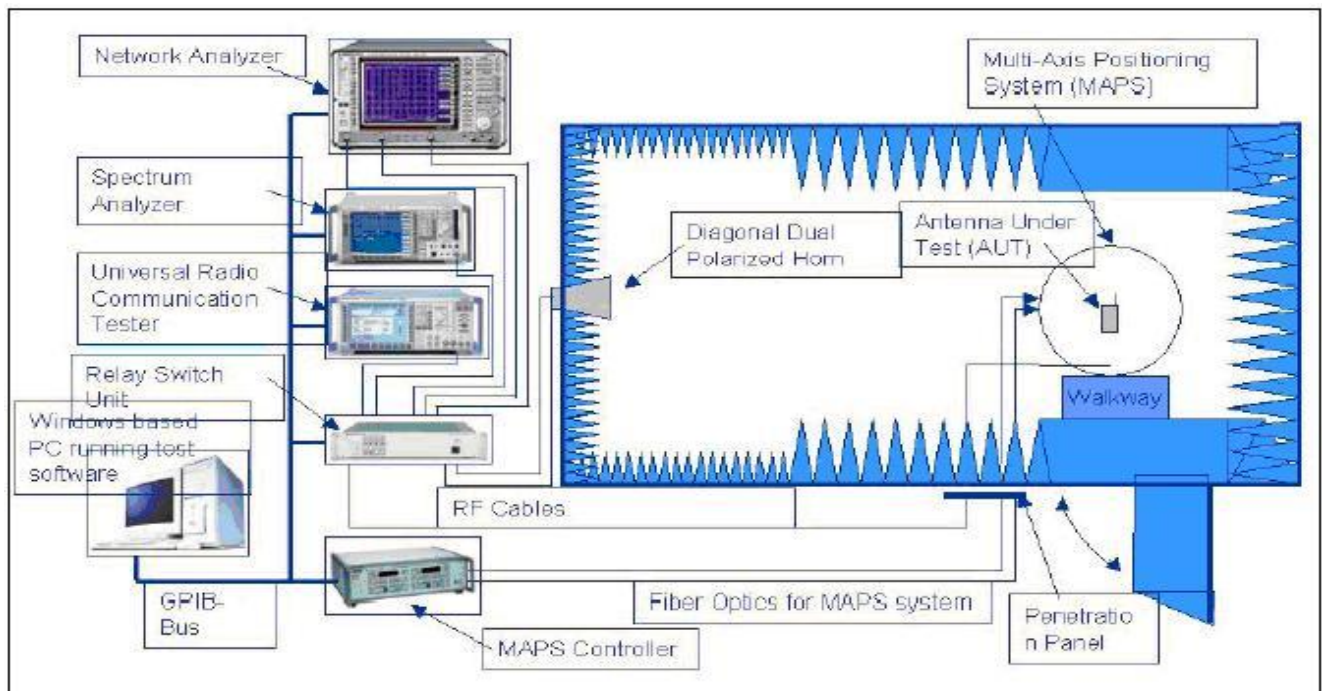
2. Test equipment



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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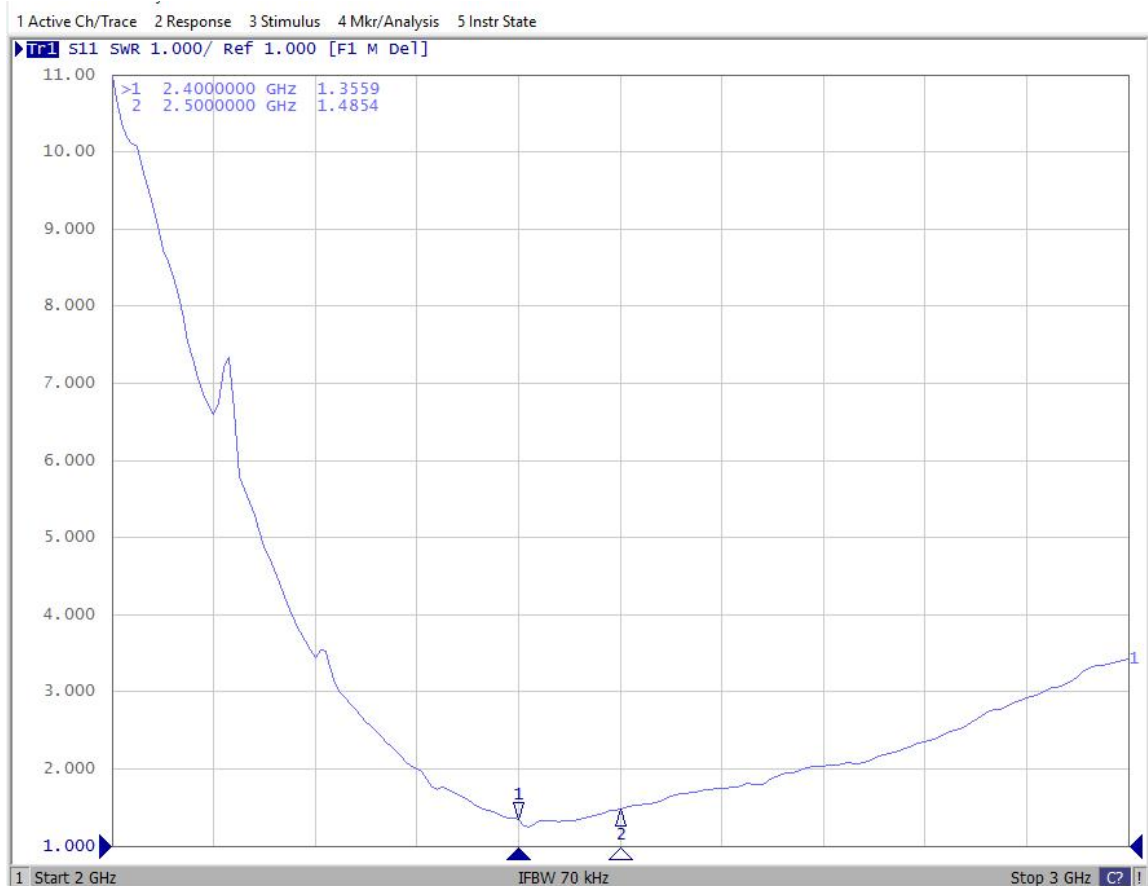
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3.Test Results Summary

3-1 Active Test

11b	Channels	TRP (1M)	TIS (11M)
	1	14.75	-82.36
	6	15.01	-82.13
	11	15.22	-82.02
11g	Channels	TRP (6M)	TIS (54M)
	1	12.47	-67.36
	6	12.36	-67.85
	11	12.28	-66.12
11n	Channels	TRP (MCS0)	TIS (MCS7)
	1	12.16	-62.51
	6	12.58	-62.39
	11	12.31	-62.33

3-2 VSWR



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3-3 No-source test data

Frequency	Efficiency	Efficiency (dBi)	Gain (dBi)
2400MHz	55%	-2.63	3.80
2410MHz	53%	-2.80	3.37
2420MHz	55%	-2.57	3.53
2430MHz	55%	-2.61	3.22
2440MHz	55%	-2.58	3.17
2450MHz	55%	-2.58	3.27
2460MHz	56%	-2.52	3.44
2470MHz	56%	-2.48	3.44
2480MHz	56%	-2.51	3.34
2490MHz	56%	-2.49	3.30
2500MHz	56%	-2.54	3.14

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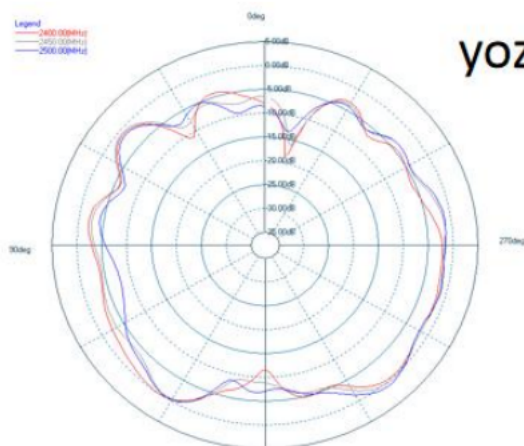
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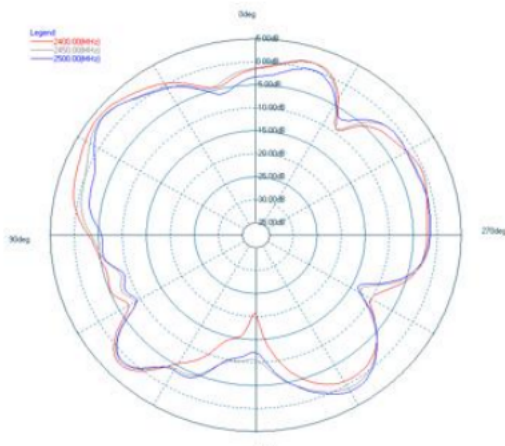
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3-4 2D/3D Radiation Pattern Results

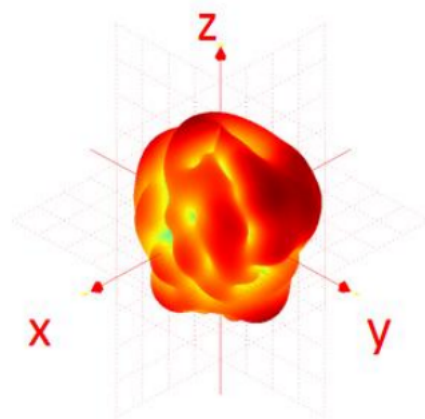
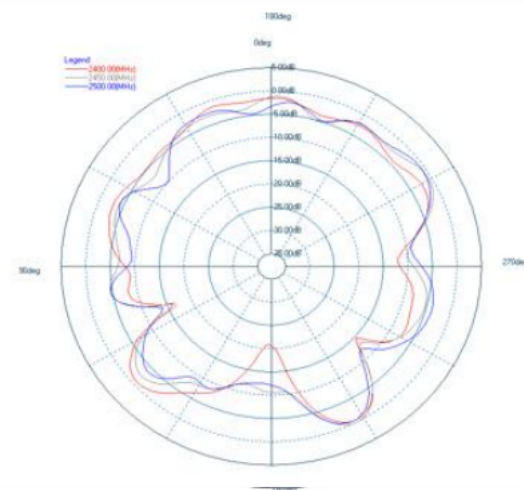
xoy



yoZ



XOZ



3-5 Environment treatment

