

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER	Hesung Innovation Limited
CS P/N	DR-HTF018S
PART NAME	2.4G Antenna
FREQUENCY	2.4~2.5GHz
ZTX NO.	2.00006416
DATE	2023-11-29

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	Guangquan Feng	

 **中天迅**

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ANTENNA SPECIFICATION

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Revision history

Edition	Date	state
A0	2023-11-29	First edition

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1. Mechanical Specification

1-1 Mechanical Configuration (2.4G Antenna)

1		2		3		4		5		6		7		8	
Drawing Number: ZTX-QR-RD-013															
Rev		Description		Designed		Date									
A1		Initial Release		Ke youjie		2024.10.31									
<p>Note:</p> <ol style="list-style-type: none"> The size with "*" is the key size for the shipment must be measured; No tolerance is controlled by reference to the tolerance table in the drawing frame; the shape should be blanked smooth and smooth, and can not be blanked to the internal line; the surface of the product can not have stains, wrinkles, copper exposure and other bad problems; the ink surface needs to pass the test requirements; all materials should meet the requirements of RoHS2.0 + REACH+HF; packaging :PE bag shipment; without the confirmation of ZTX company, the material can not be changed at will; 															
Material description:															
Serial number	Material name	Material description	Quantity	Remark											
A	RF terminal 1 generation	Phosphor bronze/gold plated surface	1												
B	Coaxial line	1.13 Ditin /FEP/ Black	1												
C	FPC	PI substrate/black ink	1												
D	UV Adhesive	IBOX-5001	1												
Shenzhen ZHONGTIANXUN Communication Technology Shares Co., Ltd		Date: 2024.10.31		Unit: mm		Rev: A1		Scale: 1:1		Project code ZTX3663					
General Tolerance		Dim Grade		A		B		Material:		Product Name: DR-HTF009S					
0-10		±0.10		±0.20		±0.30		Checked: Guangquan.Feng		Process Name:					
10-20		±0.15		±0.30		±0.40		Approval: Guohua.Zou		Third Angle					
20-40		±0.20		±0.40		±0.50									
40>		±0.25		±0.50											
Material Code: 2.00006416															

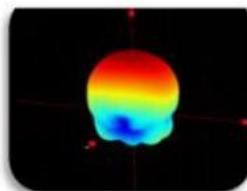
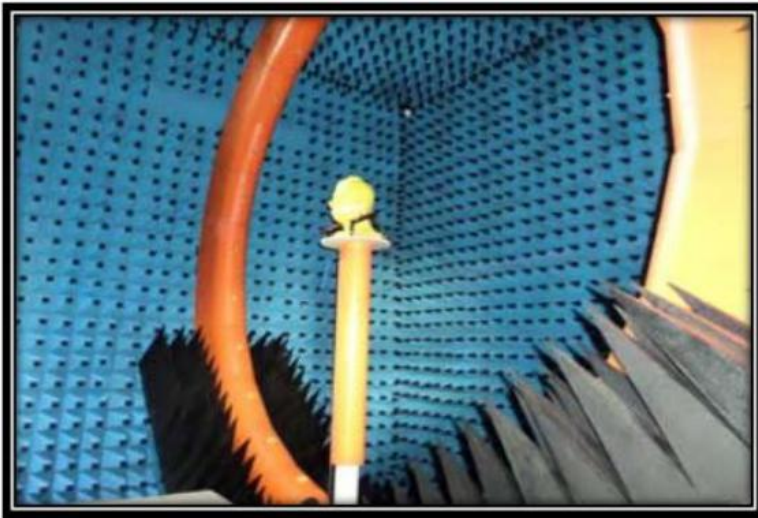
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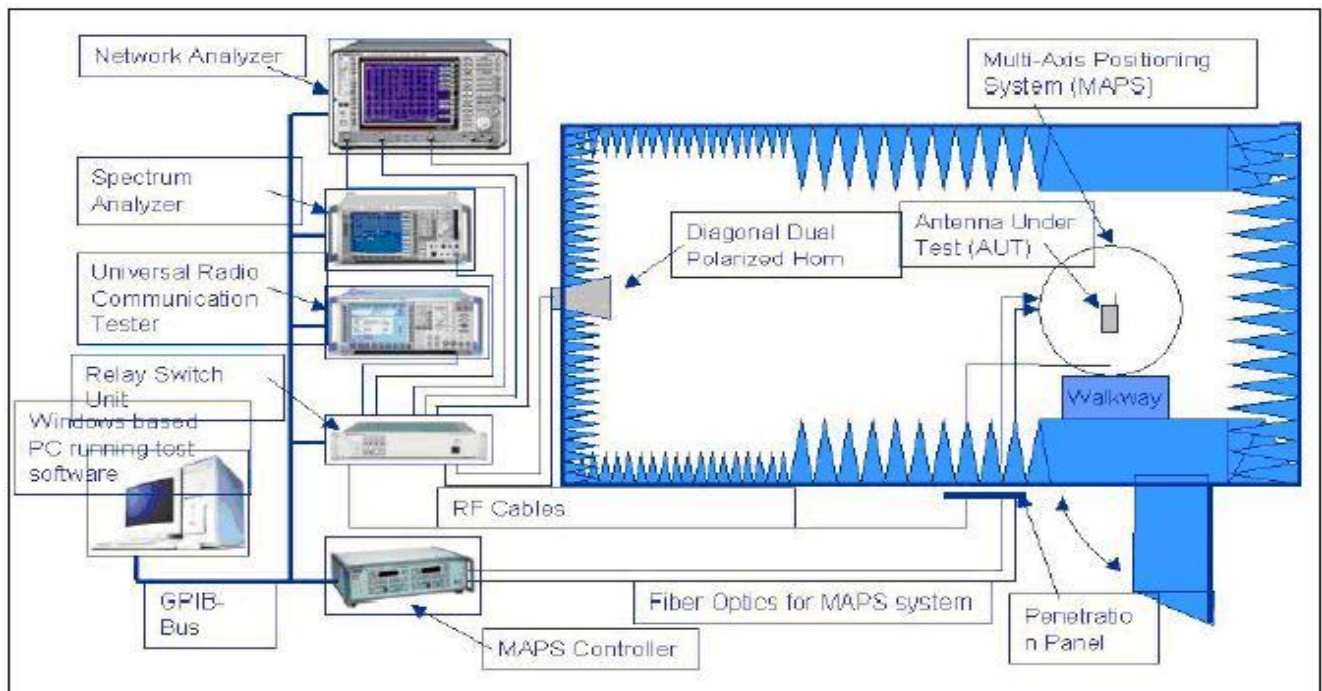
2. Test equipment



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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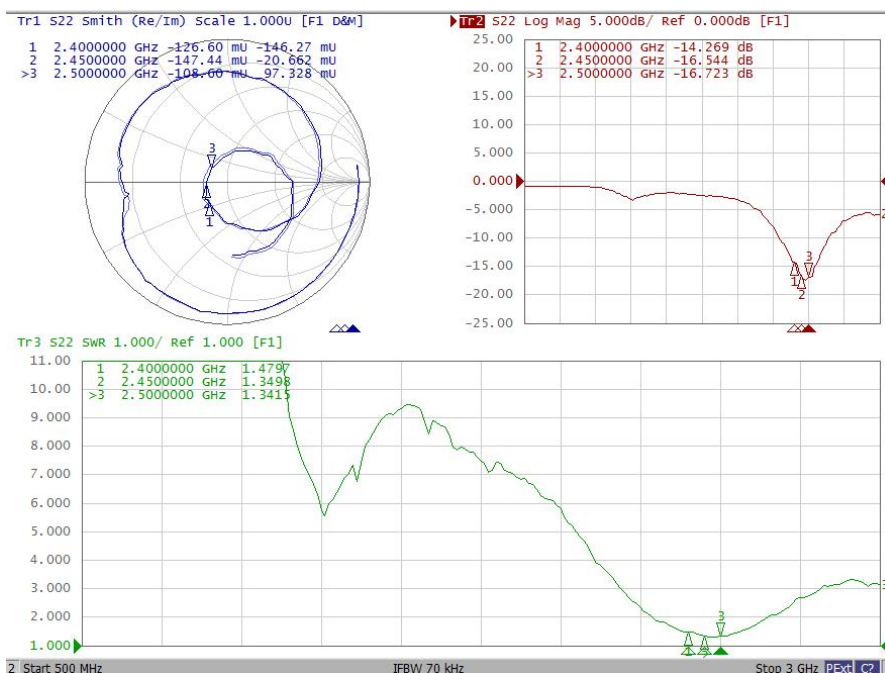
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3.Test Results Summary

3-1 OTA Test

B			G			N		
	TRP	TIS		TRP	TIS		TRP	TIS
1	16.22	-85.68	1	13.68	-71.5	1	13.76	-65.33
6	15.82	-85.69	6	12.89	-71.68	6	12.97	-66.2
11	16.64	-84.49	11	13.35	-70.55	11	13.22	-65.47

3-2 VSWR



3-3 No-source test data

Frequency	Efficiency	Efficiency	Gain . dB
2400	64%	-1.9	5.1
2410	62%	-2.1	4.8
2420	64%	-1.9	4.9
2430	64%	-2.0	4.0
2440	62%	-2.1	4.0
2450	61%	-2.1	5.1
2460	62%	-2.1	5.3
2470	65%	-1.9	5.6
2480	64%	-2.0	5.6
2490	63%	-2.0	5.5
2500	65%	-1.9	5.8

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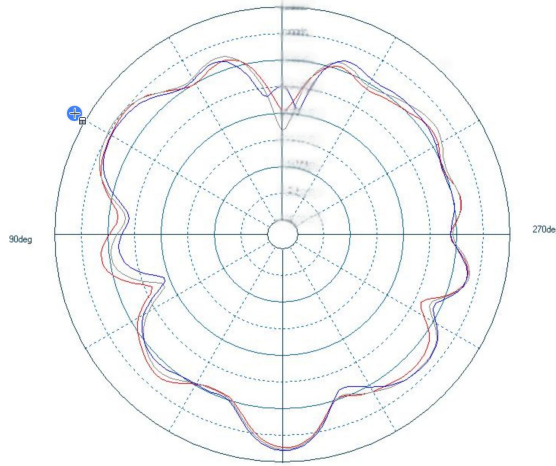
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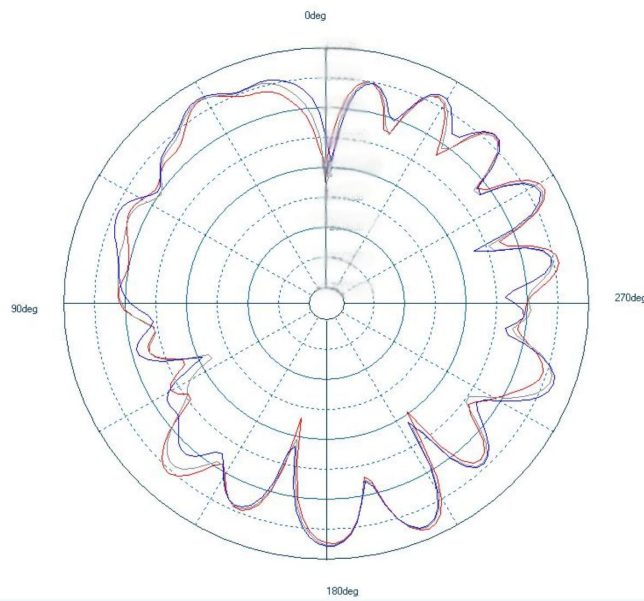
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3-4 2D/3D Radiation Pattern Results

XOZ 面



YOZ 面



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XOY 面

