

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N	DR-HPF004S	
	PART NAME	2.4G Antenna	
	FREQUENCY	2.4~2.5GHz	
	ZTX NO.	2.00000702	
	DATE	2023-11-29	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章):

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Zhengwei Chen	Jinping Gu	



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

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Revision history

Edition	Date	state
A0	2023-11-29	First edition

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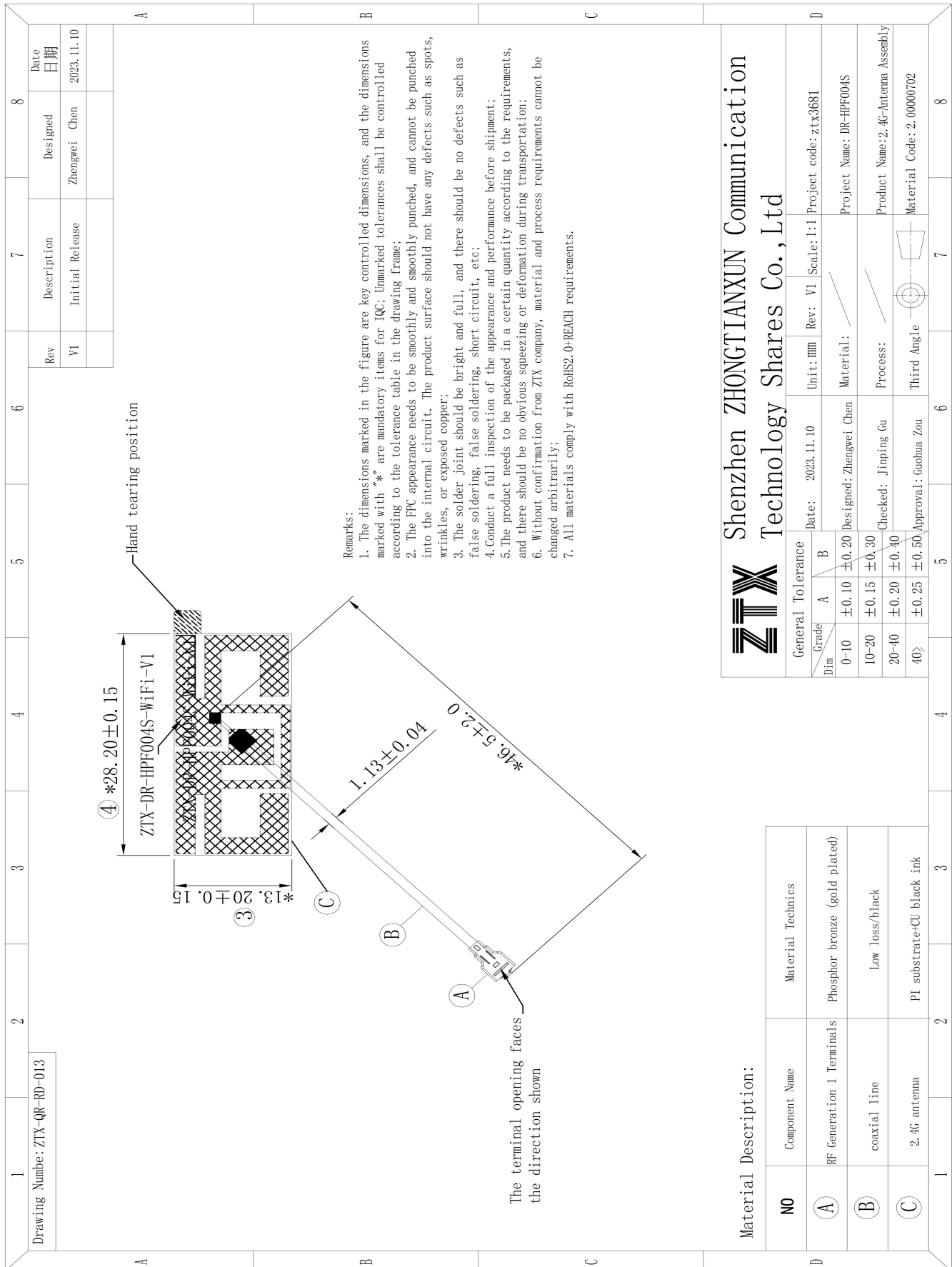
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1. Mechanical Specification

1-1 Mechanical Configuration (2.4G Antenna)



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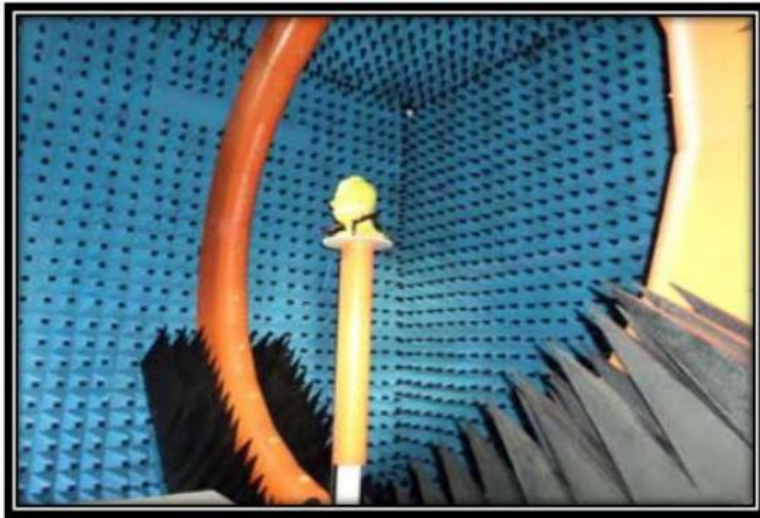
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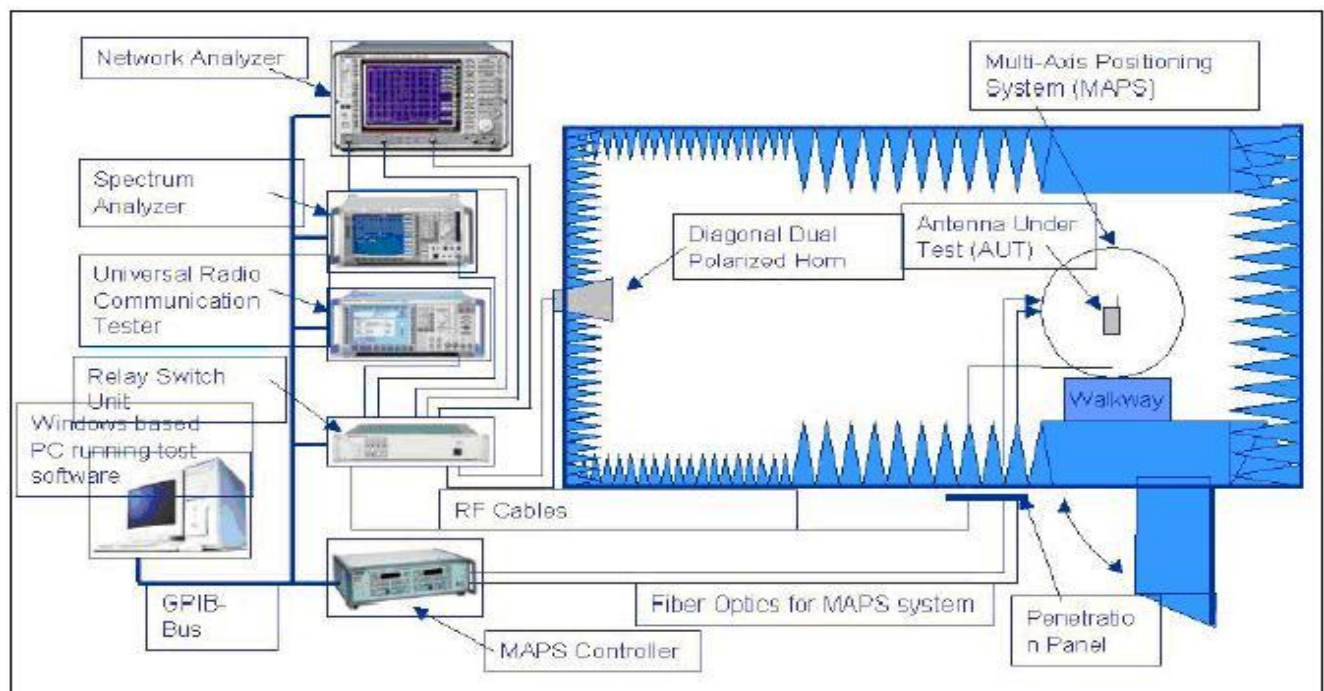
2. Test equipment



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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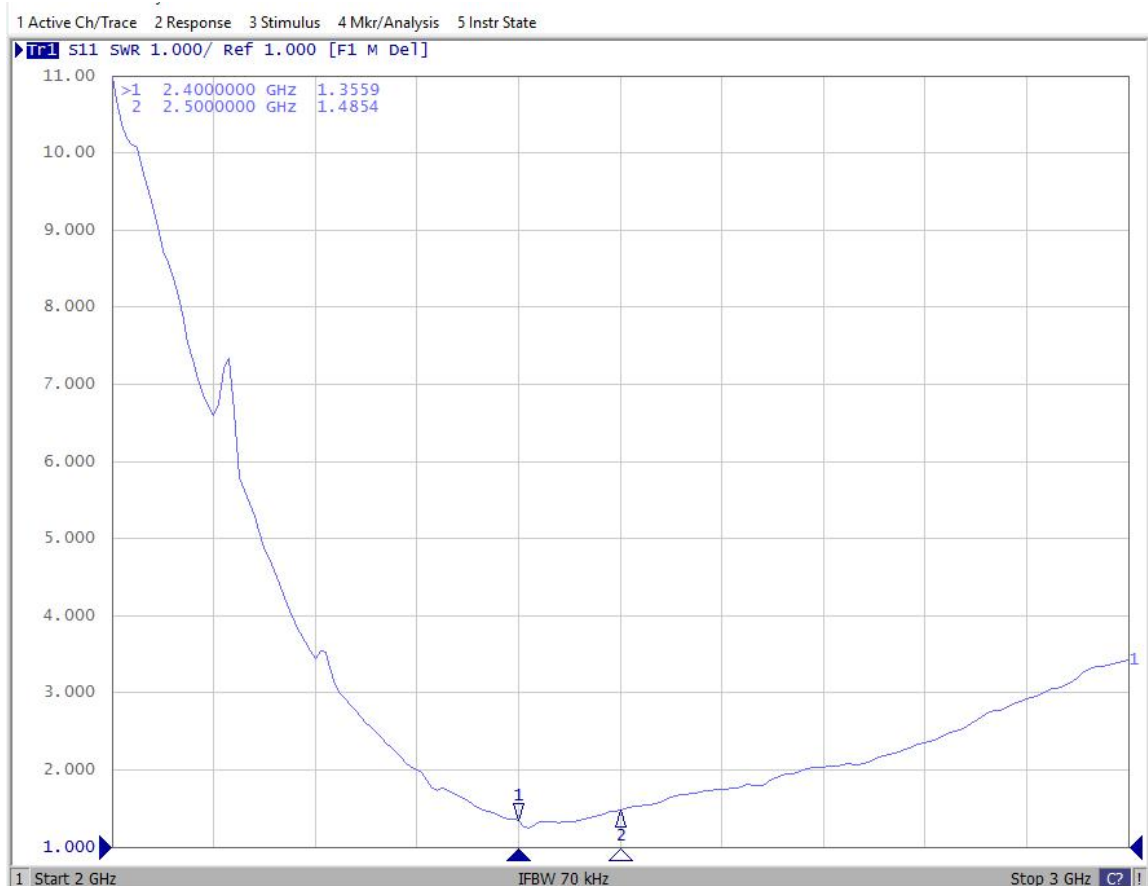
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3.Test Results Summary

3-1 Active Test

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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 (dB)	Gain (dB)
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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3-5 Environment treatment



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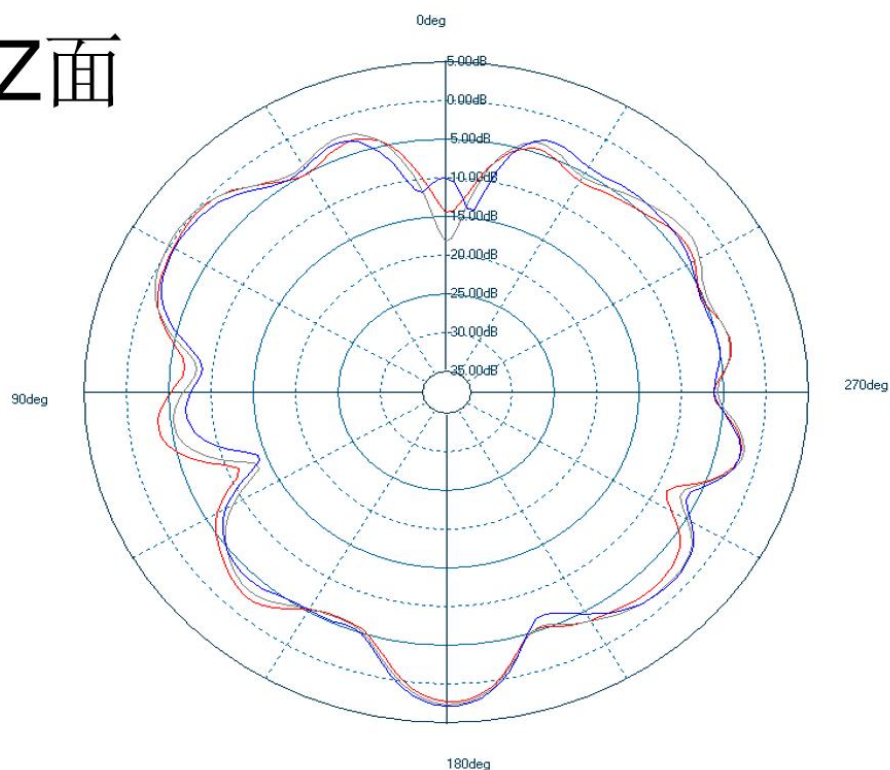
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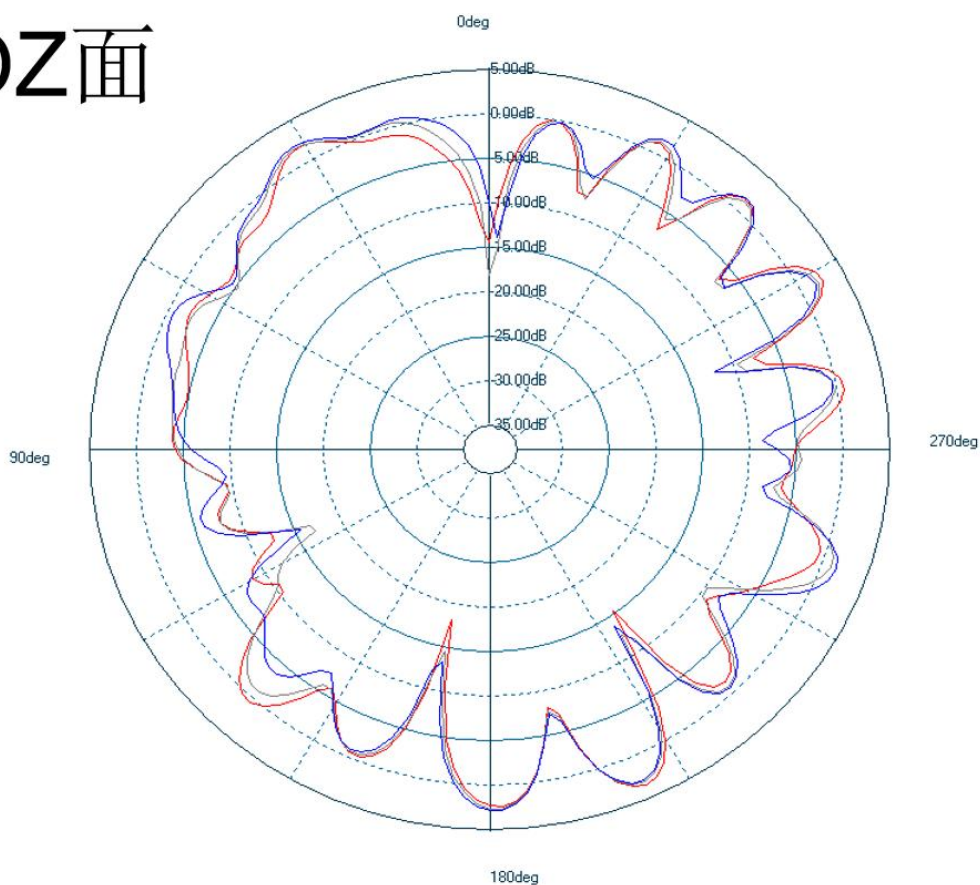
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3-4 2D/3D Radiation Pattern Results

XOZ面



YOZ面



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XOY面

