

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	HEC002S	
	PART NAME	WIFI antenna components	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00001517	
	DATE	2024-12-03	

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
		Le.Qin	Xiangrong.Zhou	



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ANTENNA SPECIFICATION

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Revision history

Edition	Date	state
A0	2024-12-03	First edition

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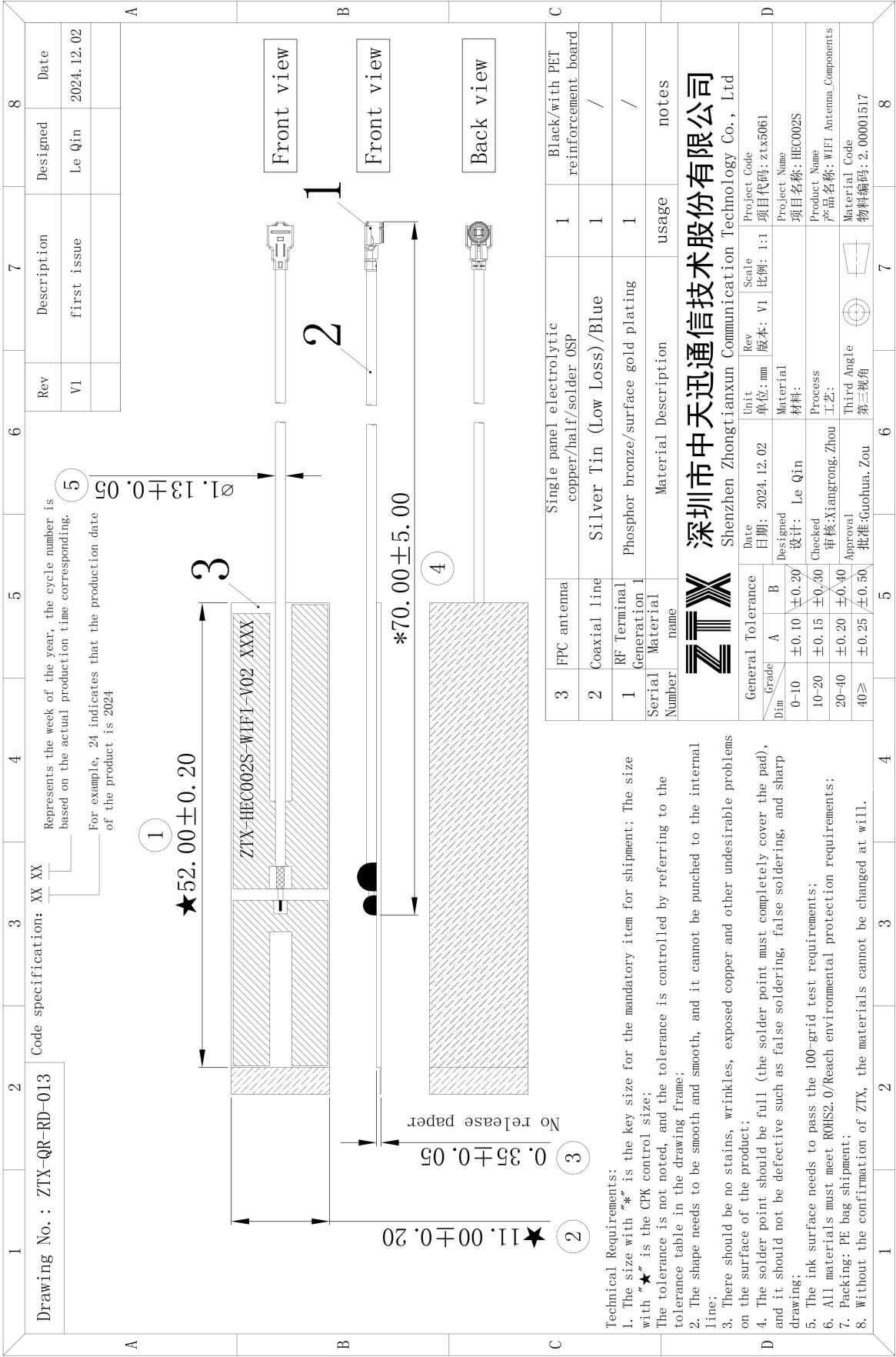
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ANTENNA SPECIFICATION

1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna components)



Technical Requirements:

1. The size with "★" is the key size for the mandatory item for shipment; The size with "★" is the CPK control size;
The tolerance is not noted, and the tolerance is controlled by referring to the tolerance table in the drawing frame;
2. The shape needs to be smooth and smooth, and it cannot be punched to the internal line;
3. There should be no stains, wrinkles, exposed copper and other undesirable problems on the surface of the product;
4. The solder point must be full (the solder point must completely cover the pad), and it should not be defective such as false soldering, false soldering, and sharp drawing;
5. The ink surface needs to pass the 100-grid test requirements;
6. All materials must meet ROHS2.0/Reach environmental protection requirements;
7. Packing: PE bag shipment;
8. Without the confirmation of ZTX, the materials cannot be changed at will.

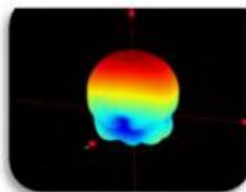
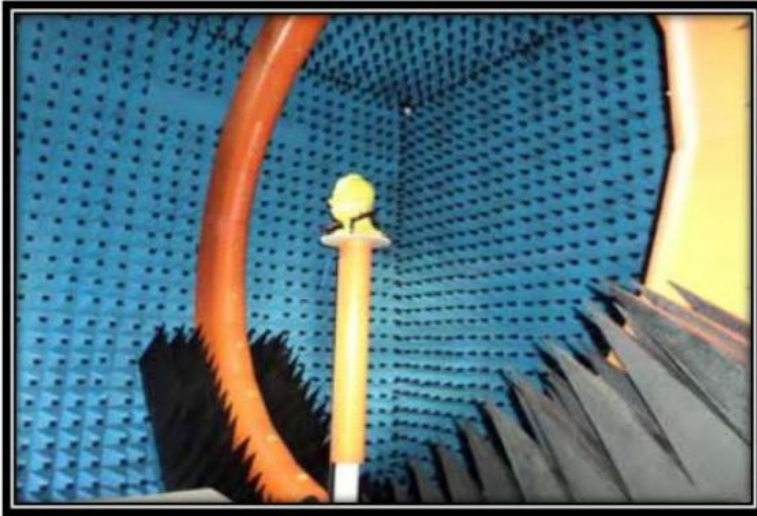
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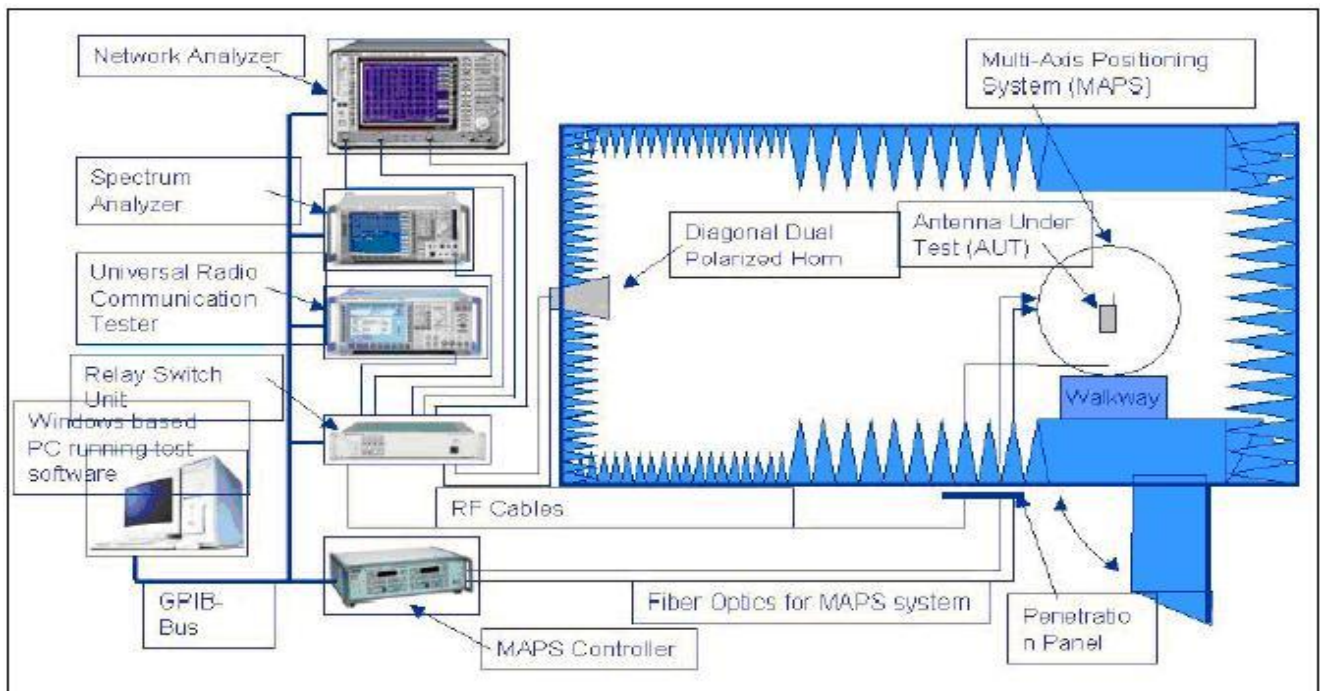
2. Test equipment



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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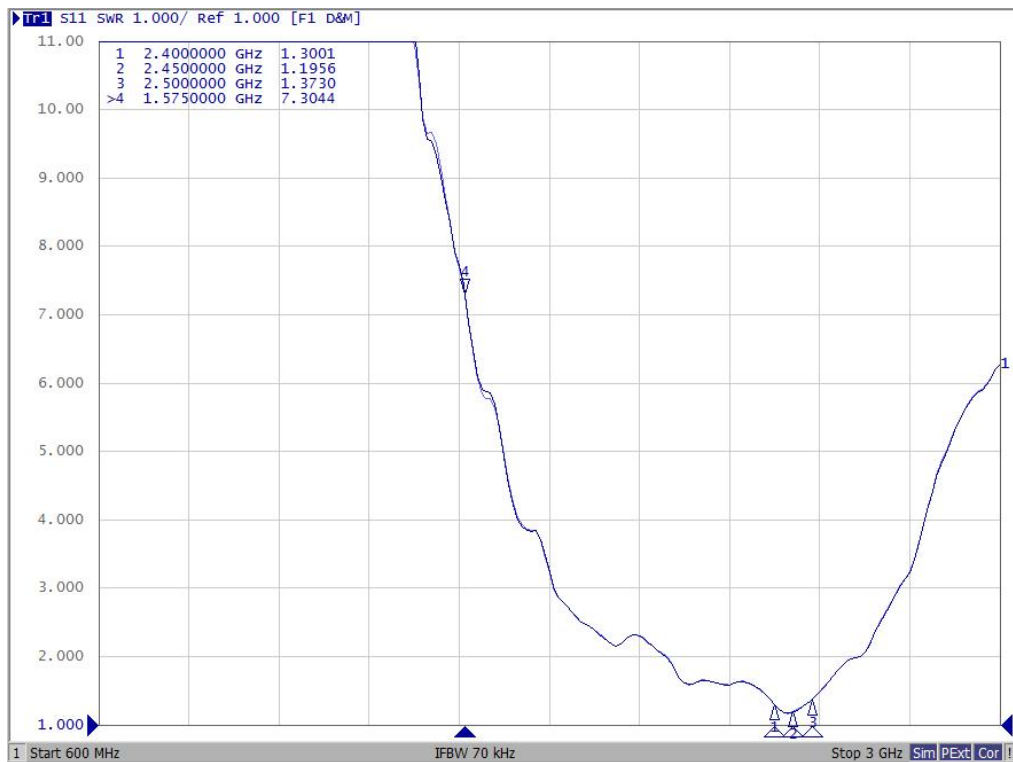
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3.Test Results Summary

3-1 Active Test

B			G			N		
Channel	TRP	TIS	Channel	TRP	TIS	Channel	TRP	TIS
1	14.52	-79.98	1	12.06	-67.46	1	11.22	-63.71
6	15.05	-80.96	6	11.94	-67.25	6	11.99	-63.95
11	15.53	-81.24	11	12.82	-66.74	11	11.82	-63.69

3-2 VSWR



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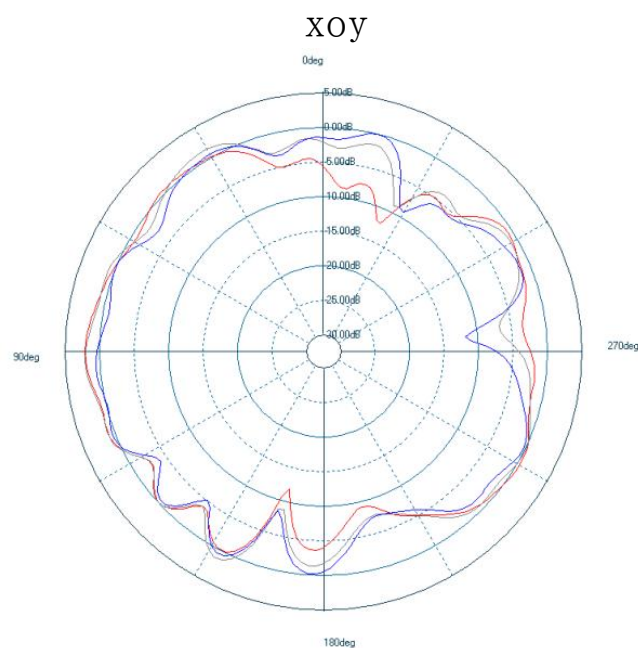
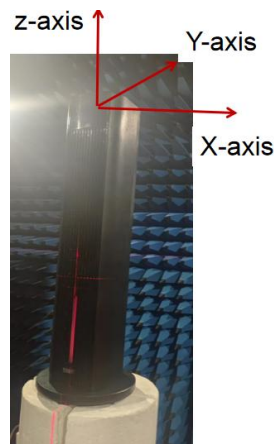
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3-3 No-source test data

Frequency Mhz	Efficiency		Peak Gain
	%	db	db
2400	63%	-1.98	3.92
2410	63%	-2.03	4.07
2420	63%	-1.99	4.33
2430	62%	-2.10	4.46
2440	64%	-1.93	4.47
2450	66%	-1.80	4.50
2460	62%	-2.06	4.45
2470	60%	-2.19	4.46
2480	63%	-2.04	4.41
2490	62%	-2.08	4.37
2500	62%	-2.09	4.22

3-4 2D/3D Radiation Pattern Results



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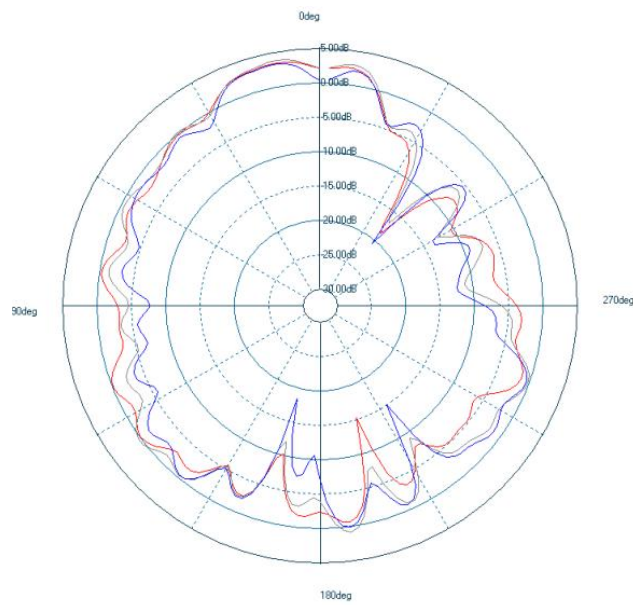
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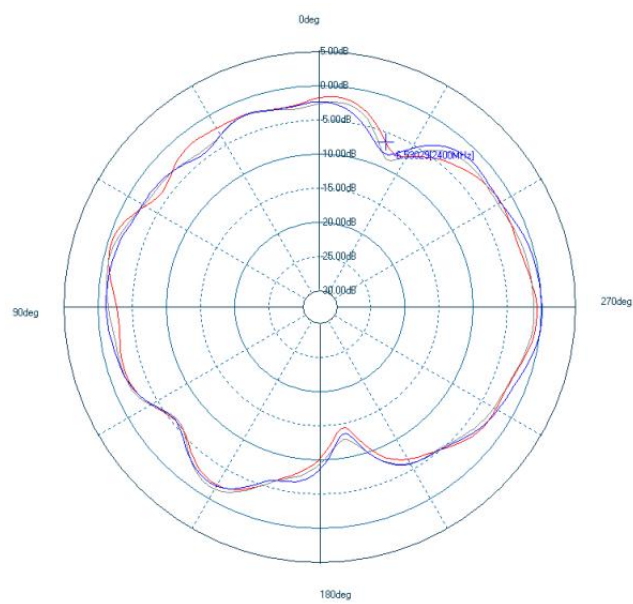
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XOZ



YOZ

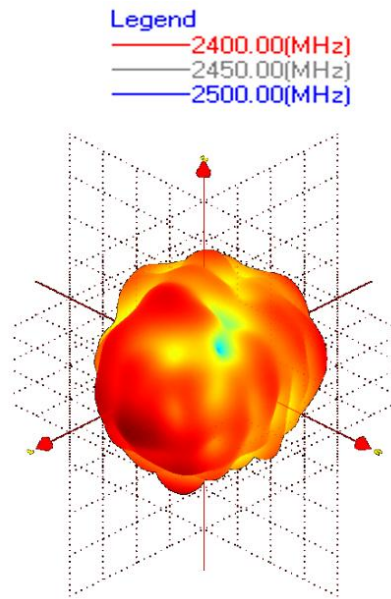


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3-5 Environmental treatment

