

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER(客户名称)	Chunghwa Picture Tubes Limited	
	CS P/N(客户机种)	VFQ40M-1009-780	
	PART NAME(品名)	WIFI Antenna component	
	FREQUENCY(频率)	2.4400~2500/5150~5850MHz	
	ZTX NO.(物料编号)	2.00001981	
	DATE(日期)	2025-12-24	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
Chen zheng wei		Wei Jin		



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ANTENNA SPECIFICATION

CUS P/N:VFQ40M-1009-780_WIFI Antenna component
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Revision history

Version	Date	Status
A0	2025-12-24	first version

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1. Mechanical Specification

1-1 Mechanical Configuration(WIFI 天线组件)



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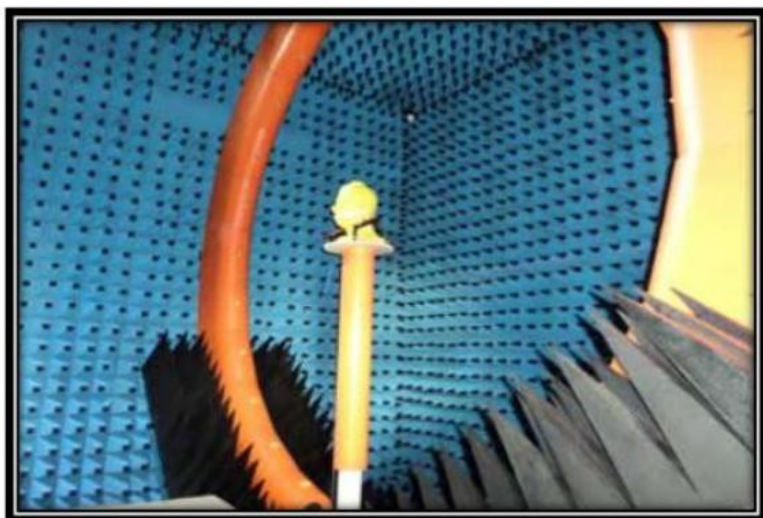
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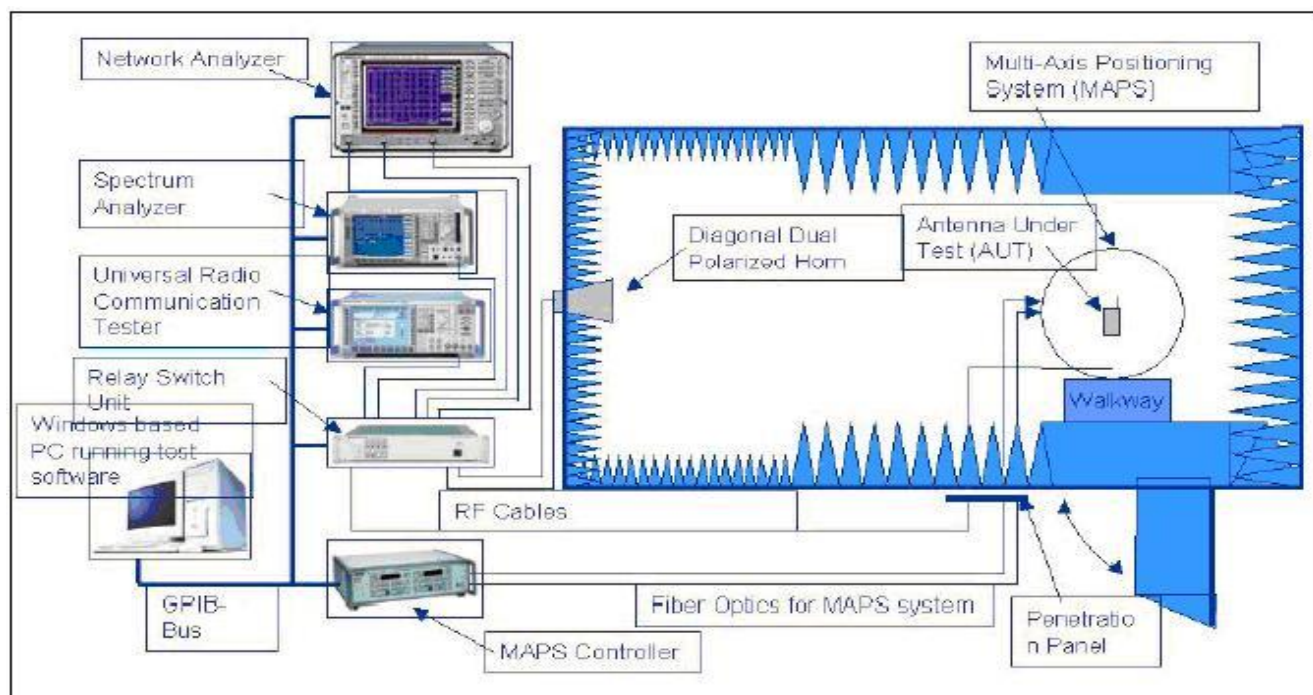
2. Test equipment



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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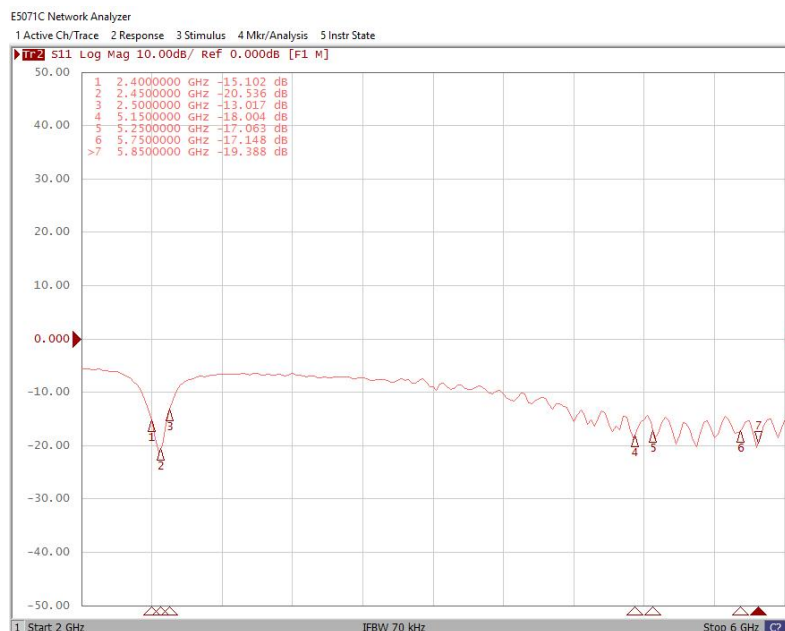
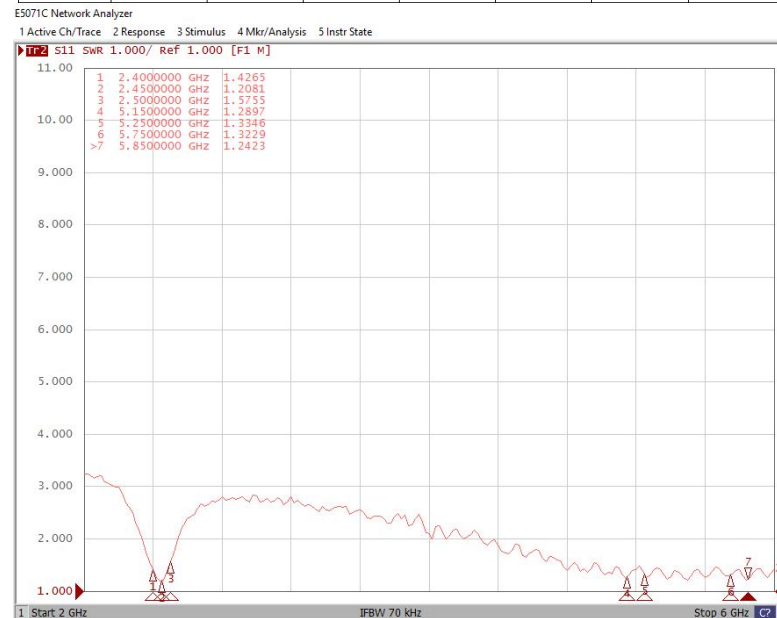
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3.Test Results Summary

3-1 S11&Return loss plot

Frequency (MHz)	2400	2450	2500	5150	5250	5750	5850
回波损耗	-15.1	-20.5	-13.0	-18.1	-17.0	-17.1	-19.3
驻波比	1.4	1.2	1.5	1.2	1.3	1.3	1.2



3-2 Passive test

Frequency (MHz)	2400	2450	2500	5150	5500	5850
Gain (dBi)	1.5	1.6	1.5	0.8	0.9	0.7
Efficiency (%)	44.2	45.5	46.6	37.5	37.6	37.8

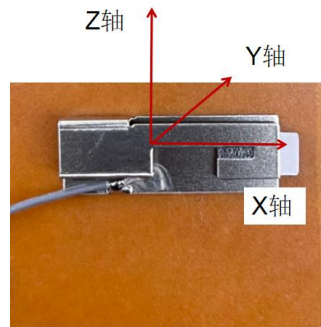
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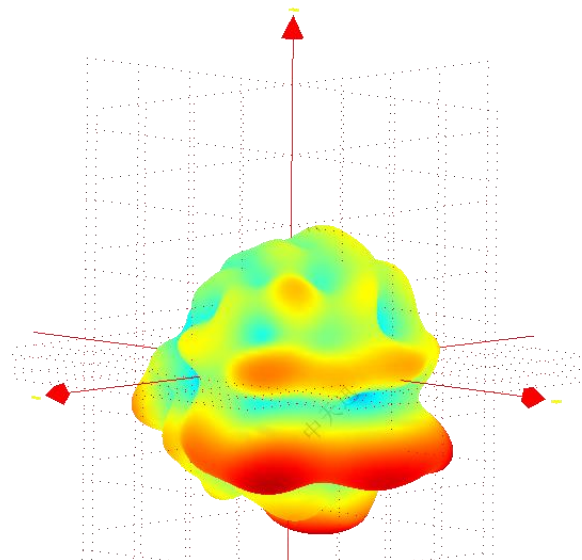
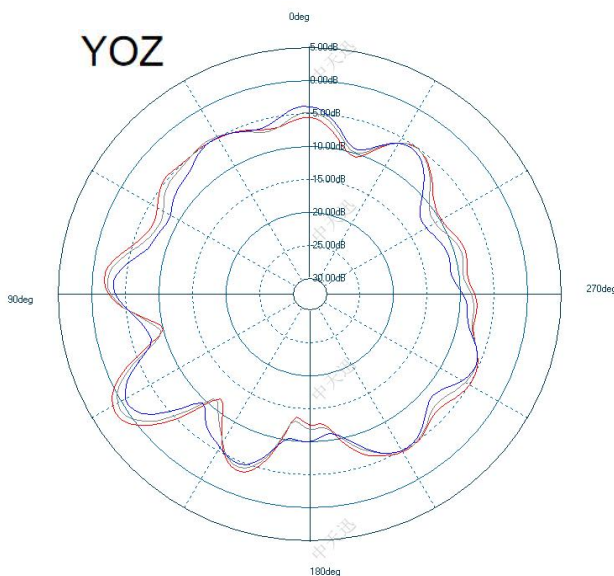
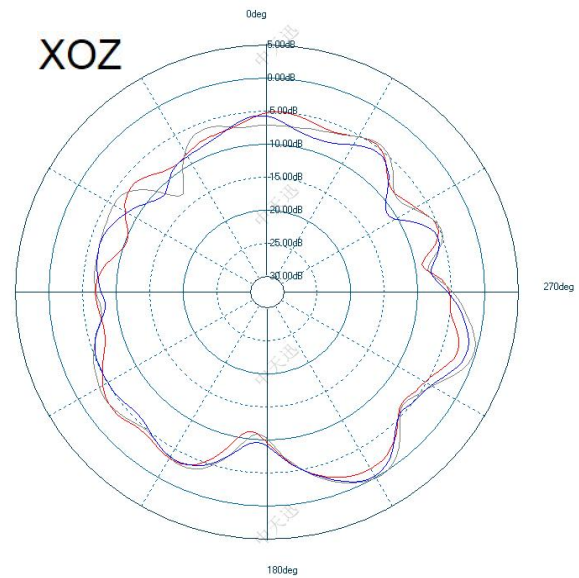
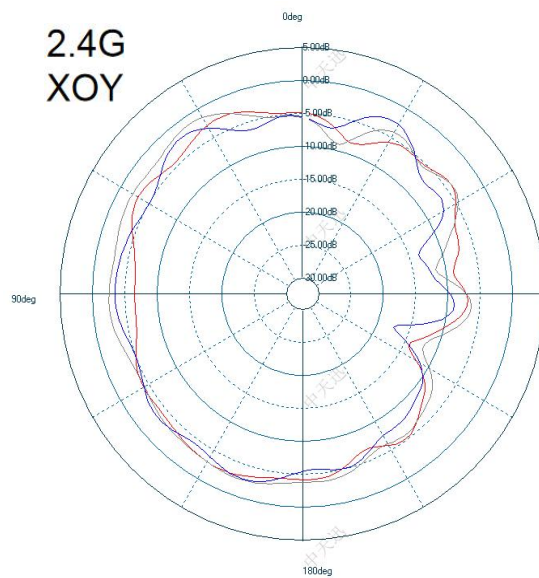
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3-3 2D/3D Radiation Pattern Results



- X轴指平行于天线向右
- Y轴指垂直于天线向后
- Z轴指平行于天线向上



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