

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	群创光电	
	CS P/N(客户机种)	D32H-J09	T32F
	PART NAME(品名)	WIFI antenna 410	L=410mm
	FREQUENCY(频率)	2.4G~2.5GHz/5.15G~5.85GHz	
	ZTX NO.(物料编号)	2.00005862	
	DATE(日期)	2023-06-16	

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER	MANAGER	ME	RF	LISTER
CHECKED	CHECKED	CHECKED	CHECKED	
		陈正伟	韦进	



Shenzhen ZTX Communication Technology Co., Ltd

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ANTENNA SPECIFICATION

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ZTX P/N :D32H-J09 WIFI antenna 410

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Revision history

Version	date	state
A1	2023-06-16	first version

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ANTENNA SPECIFICATION

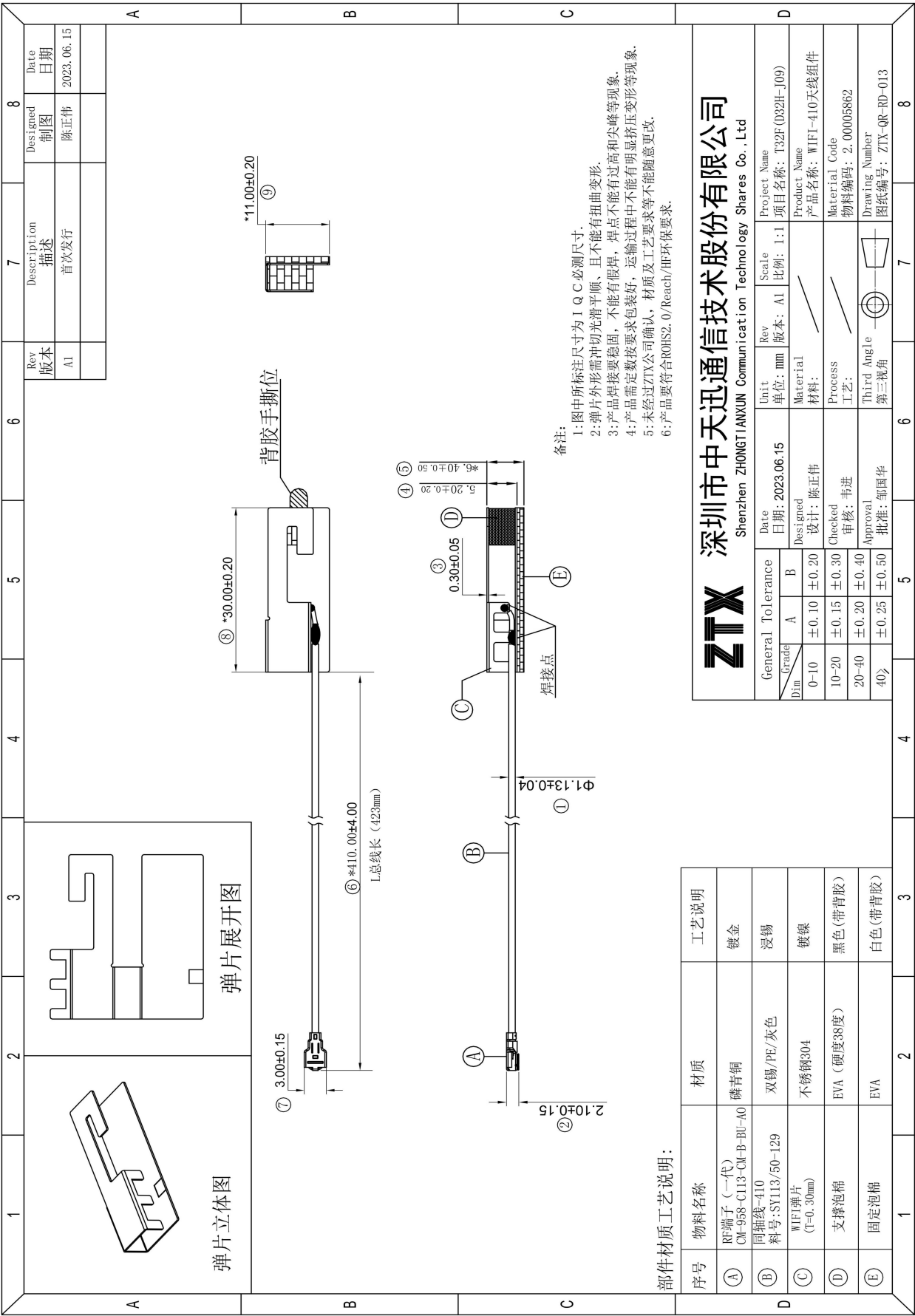
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI 天线 410)



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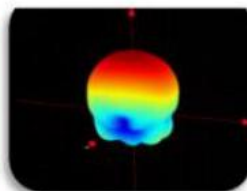
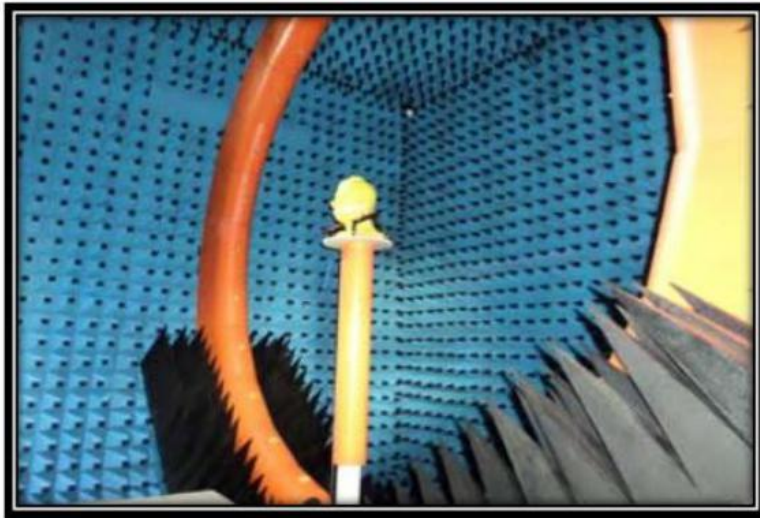
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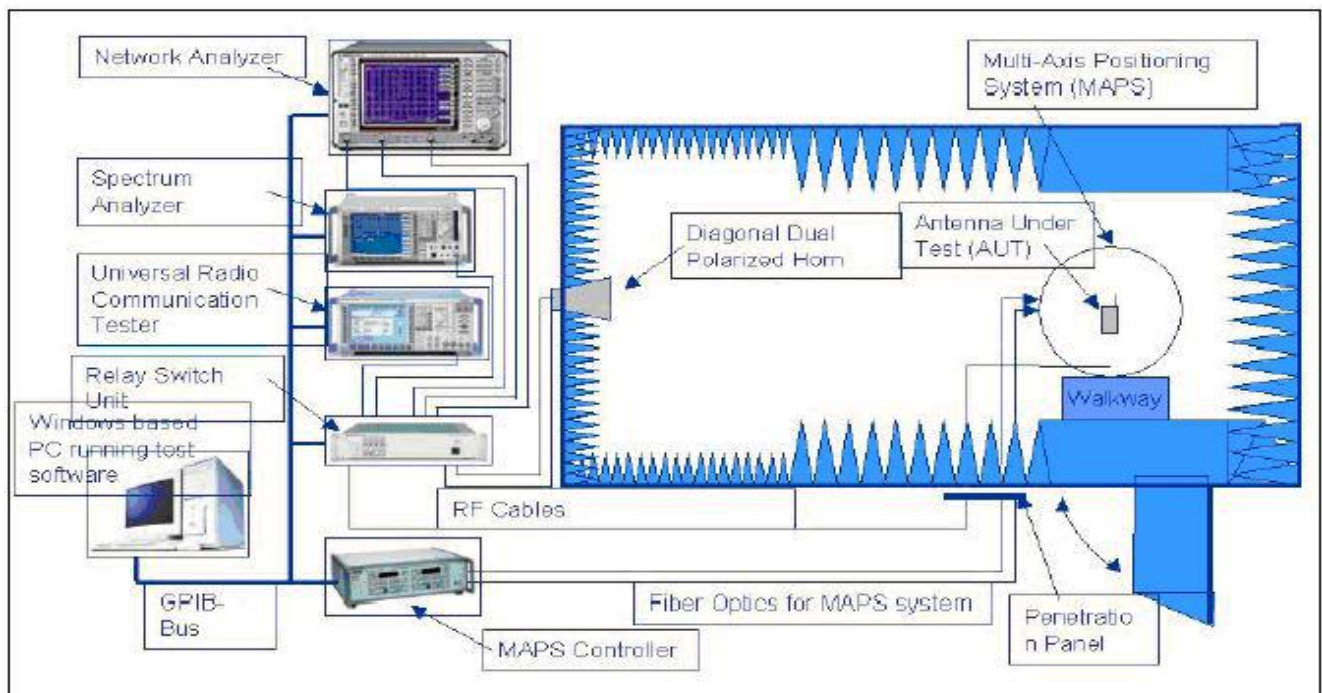
2. Test equipment



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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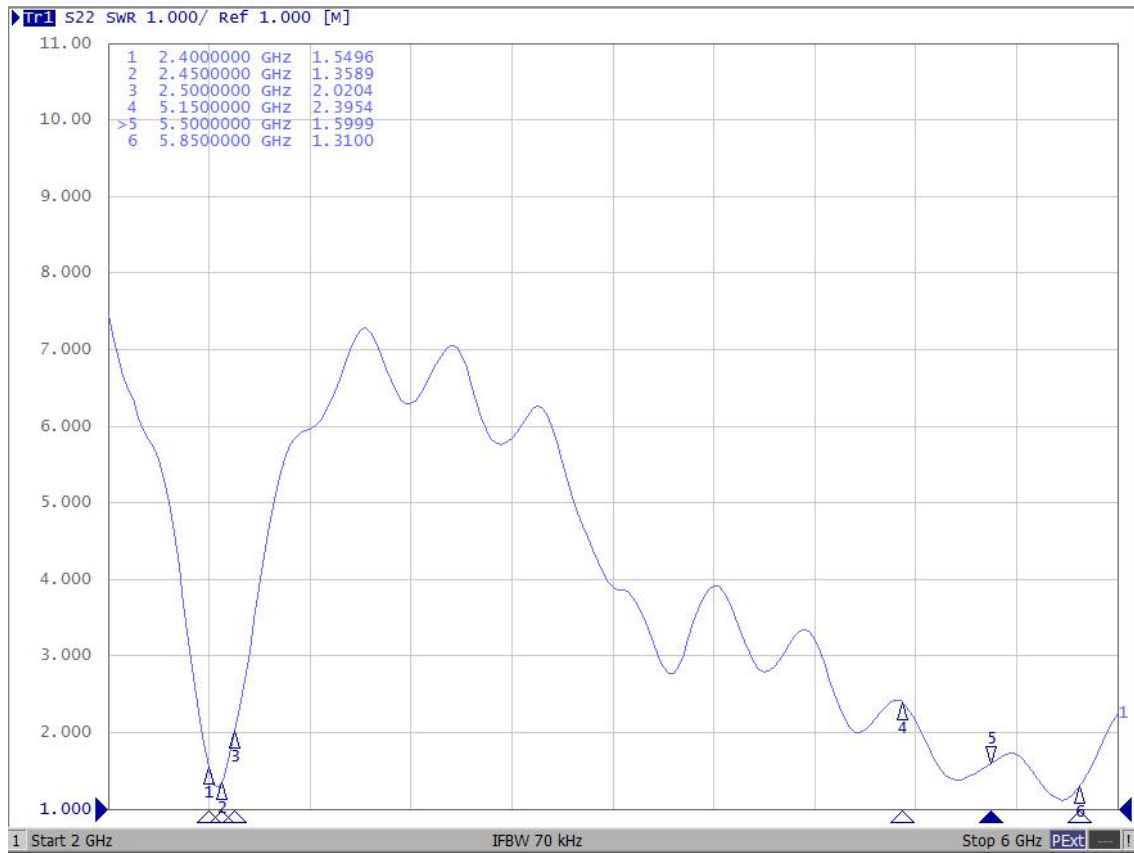
ZTX P/N :D32H-J09 WIFI antenna 410

Editor:

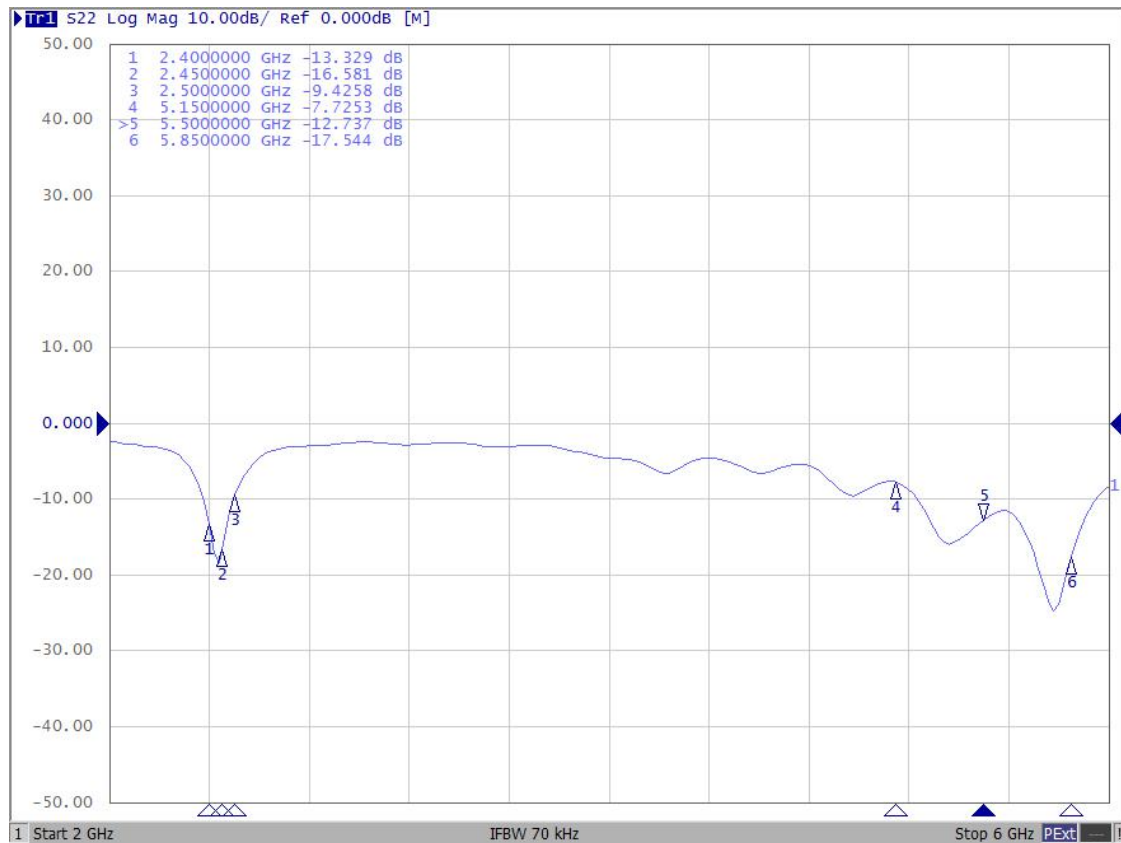
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3.Antenna test data

3-1 VSWR



3-2 Return loss plot



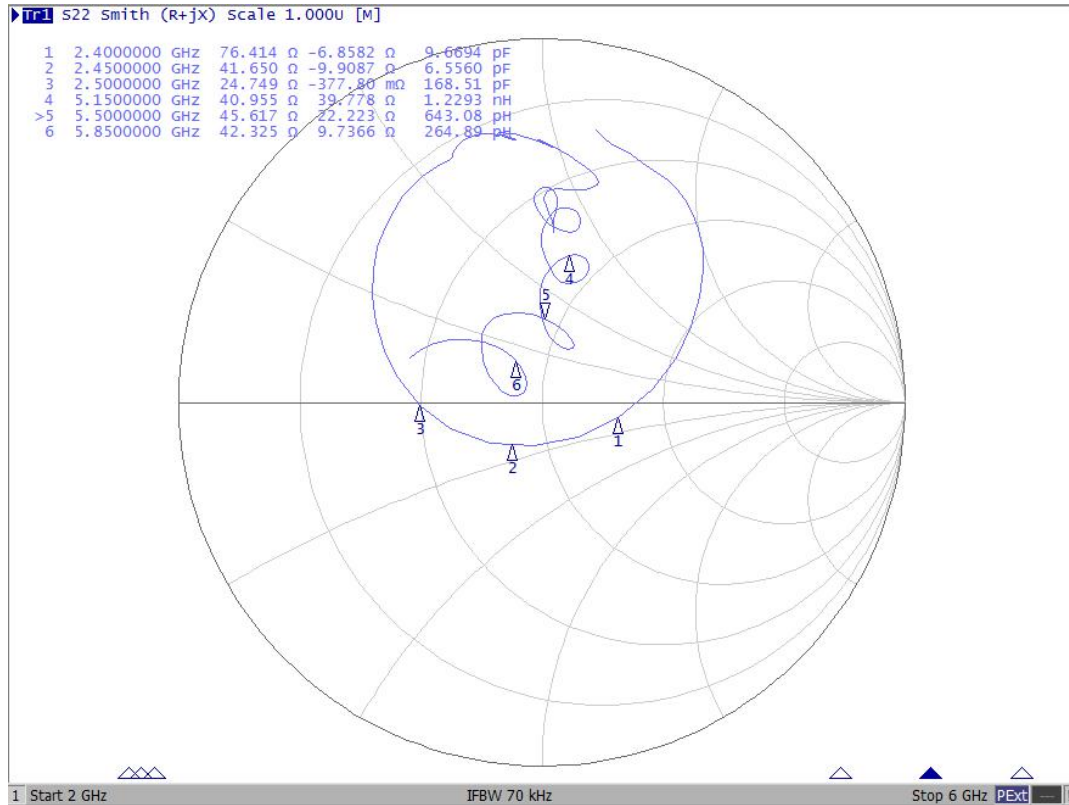
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3-3 Smith Chart



3-4 No-source test data

Frequency				Efficiency				Peak Gain	
Mhz				%		dB		dB	
2400				49.66		-3.04		4.21	
2410				52.42		-2.81		4.56	
2420				54.07		-2.67		4.77	
2430				56.46		-2.48		4.88	
2440				55.86		-2.53		4.92	
2450				56.30		-2.49		4.93	
2460				51.83		-2.85		4.57	
2470				50.97		-2.93		4.35	
2480				48.15		-3.17		4.17	
2490				46.76		-3.30		4.23	
2500				43.12		-3.65		3.94	
5150				40.86		-3.89		3.88	
5200				41.79		-3.79		4.05	
5250				41.85		-3.78		4.16	
5300				43.88		-3.58		4.44	
5350				48.55		-3.14		5.24	
5400				48.51		-3.14		5.36	
5450				52.81		-2.77		5.48	
5500				51.63		-2.87		5.25	
5550				53.81		-2.69		5.35	
5600				52.86		-2.77		5.33	
5650				53.33		-2.73		5.28	
5700				53.68		-2.70		5.41	
5750				57.27		-2.42		5.90	
5800				57.36		-2.41		6.08	
5850				55.59		-2.55		5.99	

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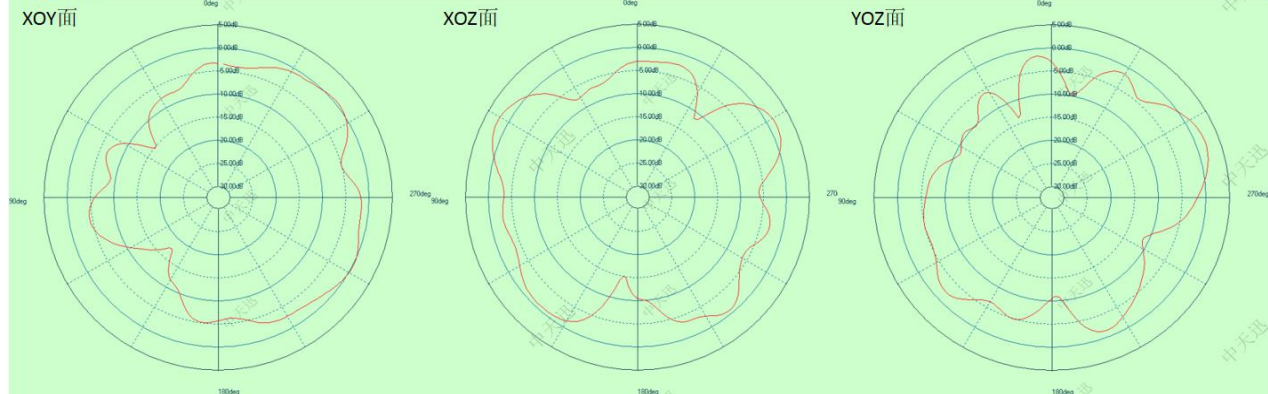
	XY plane		ZY plane		ZX plane	
Frequeny [MHz]	Peak Gain [dBi]	Average Gain [dBi]	Peak Gain [dBi]	Average Gain [dBi]	Peak Gain [dBi]	Average Gain [dBi]
2400	-0.351	-4.406	1.732	-4.672	-0.324	-5.841
2450	-0.643	-3.125	2.218	-3.238	-0.098	-4.286
2500	-0.429	-2.691	2.084	-2.649	0.528	-4.661
5150	0.933	-5.235	0.773	-6.531	1.891	-6.178
5500	1.104	-5.702	0.542	-6.424	1.296	-6.339
5850	1.559	-4.271	0.601	-6.189	1.617	-5.604

3-5 Environment treatment

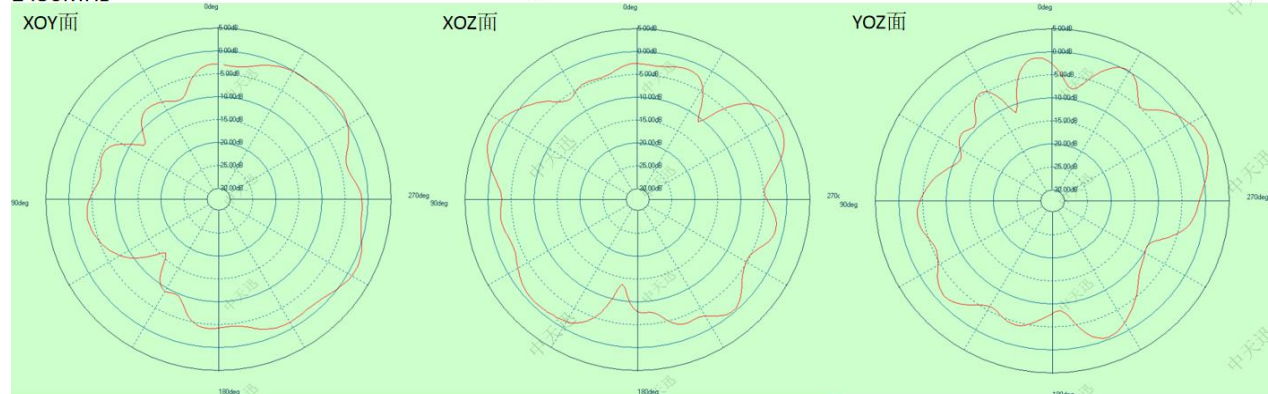
N/A

3-6 Directional drawing of horizontal plane of&3D radiation drawing

2400MHz



2450MHz



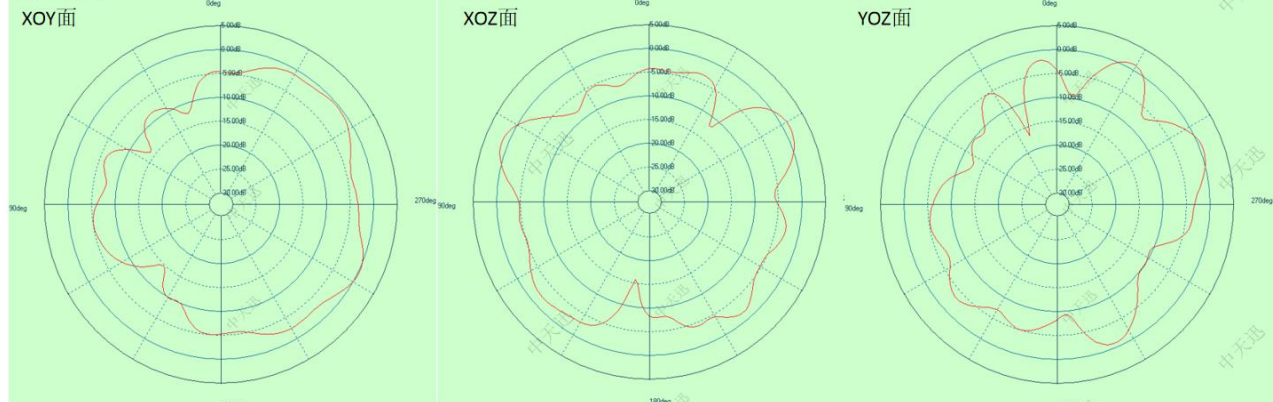
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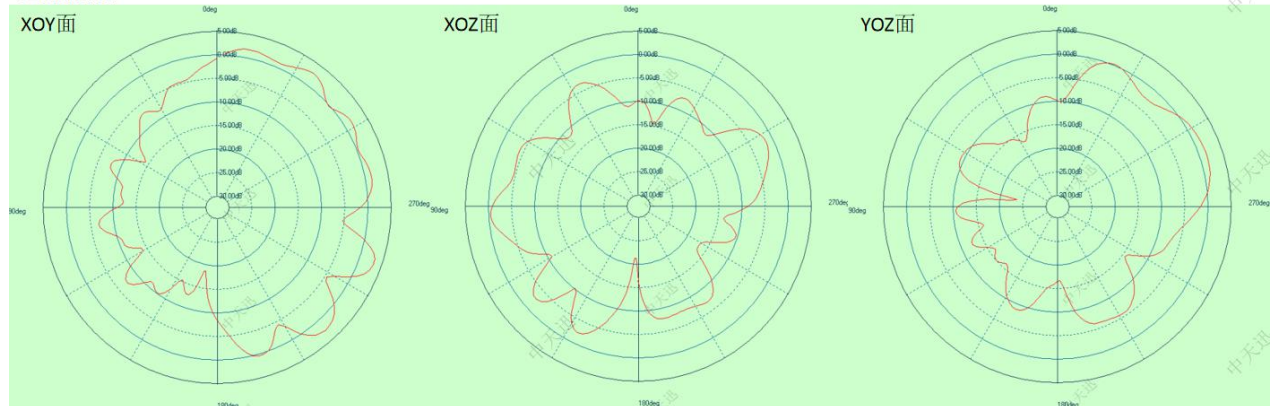
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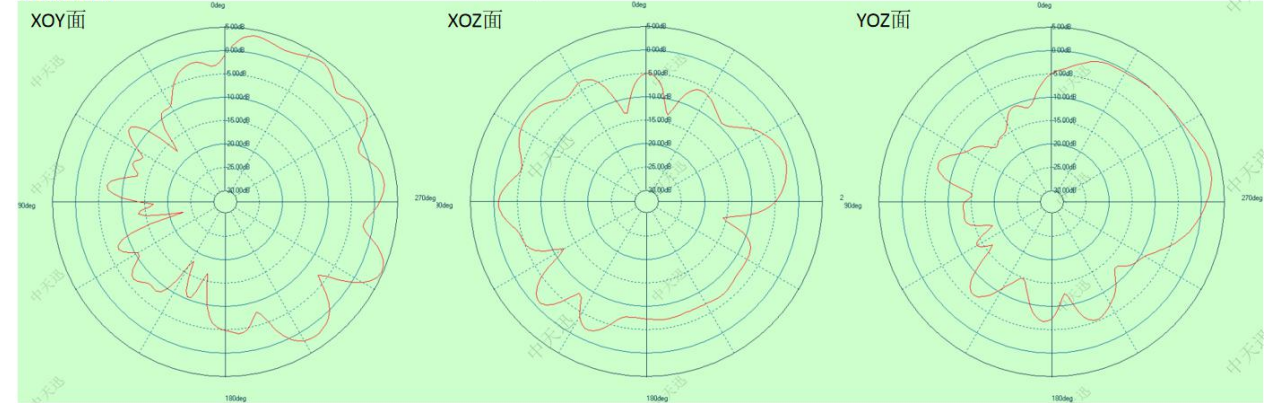
2500MHz



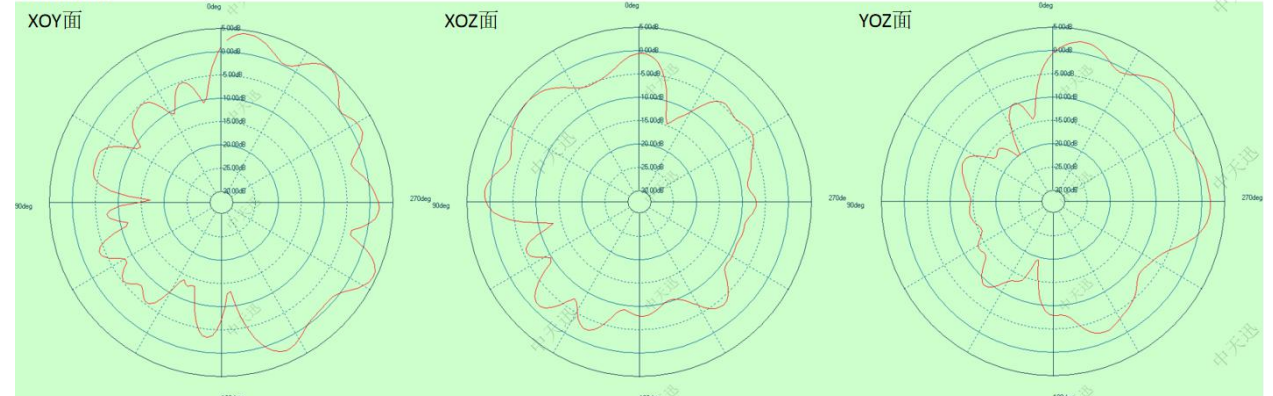
5150MHz



5500MHz



5850MHz



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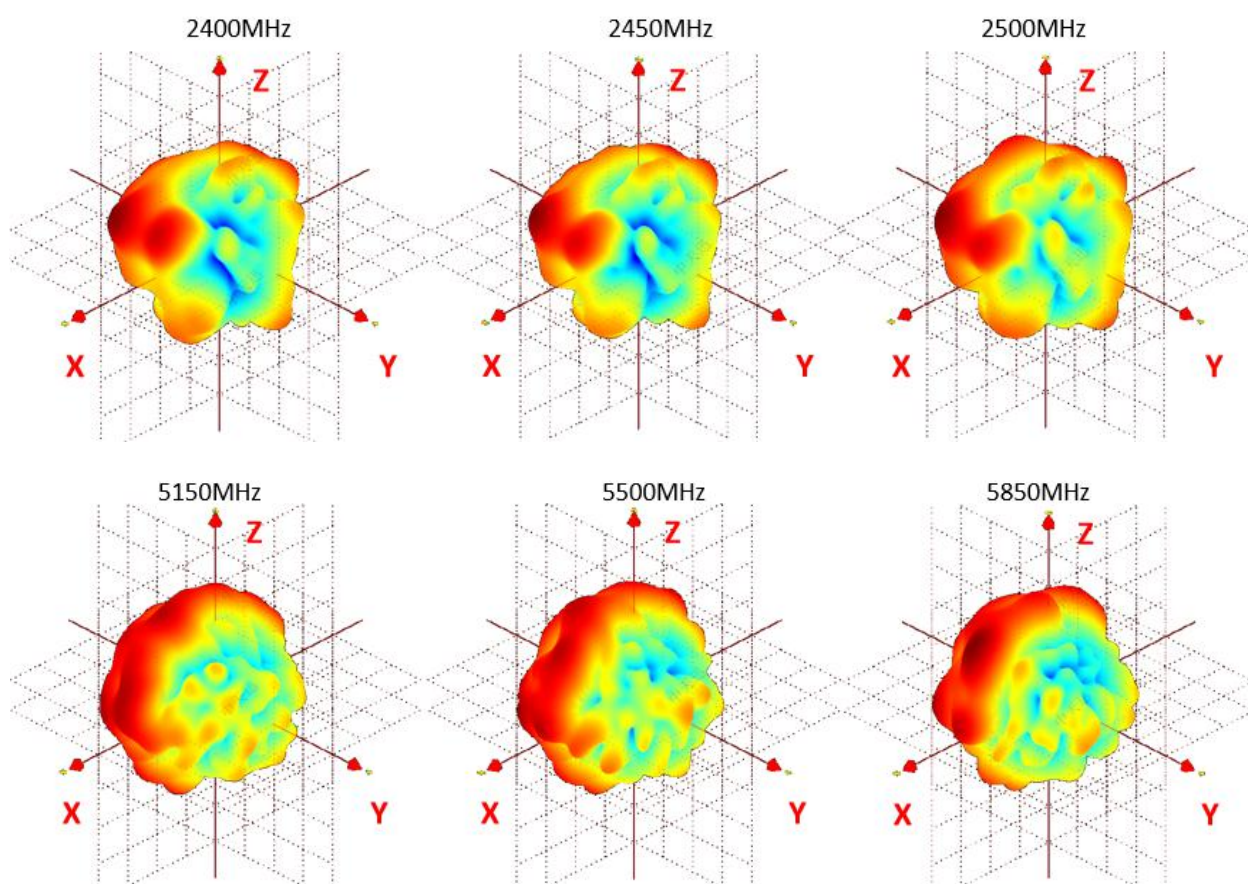
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4.Environment Characteristic CONDITION

NO.	ITEM		SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+70 \pm 2^{\circ}\text{C}$ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: $-30 \pm 2^{\circ}\text{C}$ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

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5.The packing way

深圳市中天迅通信科技股份有限公司 SHENZHEN ZHONGTIAN XUN Communication Technology Co., Ltd.				包装规范			
产品名称	产品型号	文件编号	版本	工序序号/名称	工序工时	日产量	
WIFI天线	D32H-J09 (T32F)	ZTX-QD-WI	A1	包装/装箱	/	/	
   				作业方法（自检该工序作业合格后.方能流入下一道工序		注意事项	
1.每40PCS用橡皮筋包扎装入（240*160mm）封口袋；每5袋（200PCS）产品用封口PE袋（230*330mm）包装/贴标签含（物料名称，物料编码，数量，日期）				1.注意标签有无贴错，漏贴，箱子有无破损；			
2.将包装好的产品装入箱内，箱底/面用纸板隔开；纸箱规格（45*32.5*21cm）每箱（2000pcs）尾数除外；				2.附出货检验报告。			
3.贴外箱标签，贴于外箱的右上角，标签内容包含（生产家，型号，产品名称，客户编码，数量，订单号，日期，QA检验）；							
4.纸箱用胶纸以“工”字型封箱。							
物料名称				物料编码	用量	使用工具	
PE开口袋					50	240*160mm	
PE封口袋					10	330*230mm	
纸板					2		
纸箱					1	45*32.5*21cm	
橡皮筋					50		
修订内容				修订日期			
新制定				2020/12/16			
品质确认				修订人			
胡春梅				龙秋霖			
易爱玲				批准			
审核				彭程			
彭程				彭程			
制订				龙秋霖			

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attachhed: UL report

UL Style Page

页码, 1/2

[Click here to go to UL's iQSM for Appliance Wiring Materials Database](#)

UNDERWRITERS LABORATORIES

APPLIANCE WIRING MATERIAL

Subj.758

Section 1

Page 1354

Issued:1964-02-19

Revised:2009-04-30

Style 1354

Coaxial Cable.

Rating 60, 80 deg C, 30 Vac, Horizontal flame.

Conductor 44 AWG min., material not specified.

Insulation 2 mils minimum at any point, 125 mils maximum. The insulation may be: Extruded solid or cellular PE, FRPE, PP, PFA, FEP, ECTFE, PTFE, ETFE, or combination thereof with or without irradiation; or tape wrapped solid or cellular PTFE, PFA, or FEP. Applied as a spiral wrapped thread (5 mils minimum, 40 mils maximum) and enclosed in a tube of insulation.

Assembly Insulated conductor with optional inner covering, optional inner shield, optional middle covering, required outer shield and required outer covering.

Shield Optional. Outer Shield required.

Covering Optional Inner Covering - Extruded PVC, PFA, Polyamide, Polyester, PVDF, FEP, PTFE, ECTFE, ETFE, PE, XLPE, XLFRPE or FRPE; lacquered braids; heat sealed PTFE, PFA or FEP tape; Polyester or Polyester-Polyethylene film. Thicknesses not specified. Optional Middle Covering - Extruded PVC, PFA, PP, Polyamide, Polyester, PVDF, FEP, PTFE, ECTFE, ETFE, PE, XLPE, XLFRPE or FRPE; lacquered braids; heat sealed PTFE, PFA or FEP tape; Polyester or Polyester-Polyethylene film. Thicknesses not specified. Required Outer Covering - Extruded Irradiated PE, Irradiated PVC, Polyurethane, PVC, PFA, PP, Polyamide, Polyester, PVDF, FEP, PTFE, ECTFE, ETFE, PE, XLPE, XLFRPE or FRPE; lacquered braids; heat sealed PTFE, PVC, PFA or FEP tape; Polyester or Polyester-Polyethylene film. Thicknesses not specified.

<http://data.ul.com/link/stylepage.aspx?style=1354>

2010-7-1

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UL Style Page

页码, 2/2

Standard	Appliance Wiring Material UL 758.
Marking	General.
Use	Internal wiring of Class 2 circuits of electronic equipment or as insulated single in jacketed multiconductor cables.

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AVLV2.E318898 - Appliance Wiring Material - Component | UL Product iQ

2020/6/23 上午10:05

UL Product iQ™



AVLV2.E318898 - Appliance Wiring Material - Component Appliance Wiring Material - Component

See General Information for Appliance Wiring Material - Component

SHENYU COMMUNICATION TECHNOLOGY INC
275 E Waihuan Rd
Jiangyin, Jiangsu 214400 CHINA

E318898

Table of Recognized Styles

Single-conductor, thermoplastic insulation.							
1226	1354	1708	1766	1882	10008	10248	
1227	1371	1709	1847	1886	10011	10362	
1330	1538	1710	1857	1887	10064	10518	
1331	1577	1723	1858	1901	10072	11085	
1332	1591	1726	1859	1927	10111	11149	
1333	1592	1727	1860	10005	10231	11180	
Multiple-conductor, thermoplastic insulation.							
20276	21100	21533					

Style(s) 11149 can be assigned the IEC 60332-2 flammability rating

Marking: Company name, voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.

Last Updated on 2020-04-21

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