

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER(客户名称)	LINKSCI
CS P/N(客户机种)	DKAM
PART NAME(品名)	BT天线弹片
FREQUENCY(频率)	2400~2500MHz
CUS NO.(客户编号)	
ZTX NO.(物料编号)	1. 01. 01321
DATE(日期)	2025/1/16

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
		陈正伟	罗海群	



Shenzhen ZTX Communication Technology Co., Ltd

地址: 深圳市宝安区石岩镇石龙大道34号(腾达工业园)

邮编: 518000

电话: 0755-27588320

传真: 0755-27588045

<http://www.chinaztx.com>

Revision history

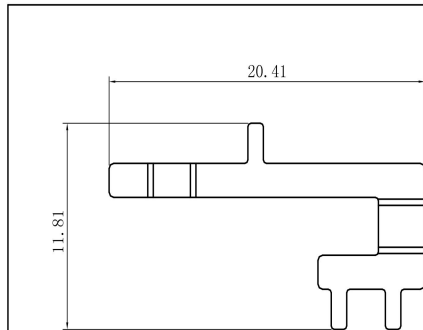
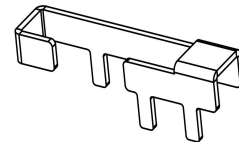
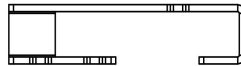
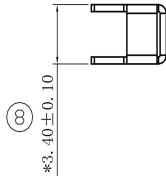
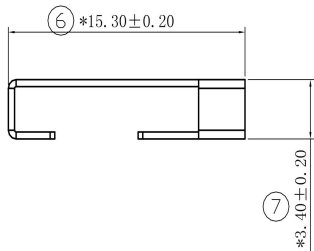
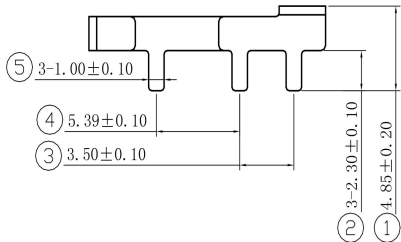
版本	日期	状态
A0	2025/1/16	初版

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3 .电气/机械性能测试报告/Electrical Performance Test Report	6~9

图纸编号: ZTX-QR-RD-013

Rev 版本	Description 描述	Designed 制图	Date 日期
V1	首次发行	陈正伟	2025.01.16



1:1展开图

备注:

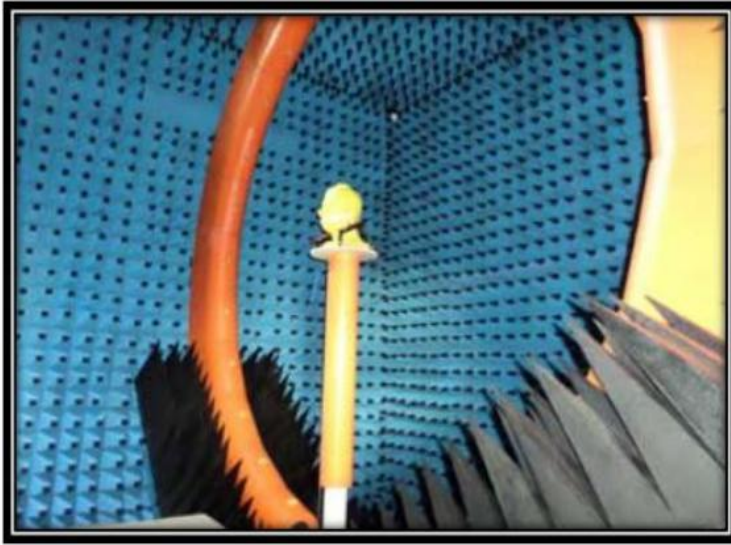
- 角度尺寸模具设计时依图纸尺寸作参照,样品及量产实配即可;
- 打“*”为严格控制尺寸(IQC必测等级A);
- 材质说明:(SUS304 T=0.4mm 硬度1/2H、表面镀镍:1.0um以上);
- 字码说明(采用宋体,要求字迹清晰,弹片无变形);
- 产品不能有油污、毛刺、利边、缺料、变形、压印过深等不良;
- 需通过48小时盐雾测试;
- 量产包装用窄带包装,运输过程中产品不能挤压变形;
- 未经过ZTX公司确认,材料不能随意更改;材料符合ROHS2.0/Reach要求。

ZTX 深圳市中天迅通信科技股份有限公司

Shenzhen ZHONGTIANXUN Communication Technology Co.,Ltd

General Tolerance			Date 日期: 2025.01.16	Unit 单位: mm	Rev 版本: V1	Scale 比例: 1:1	Project code 项目代码: ZTX4864
Dim	Grade	A	B	Designed 设计: 陈正伟		Material 材料: SUS304 镀Ni	
0-10		±0.10	±0.20	Checked 审核: 罗海群		Process 工艺:	
10-20		±0.15	±0.30	Approval 批准: 邹国华		Product Name 产品名称: BT-天线弹片	
20-40		±0.20	±0.40	Third Angle 第三视角		Material Code 物料编码: 1.01.01321	
40>		±0.25	±0.50				

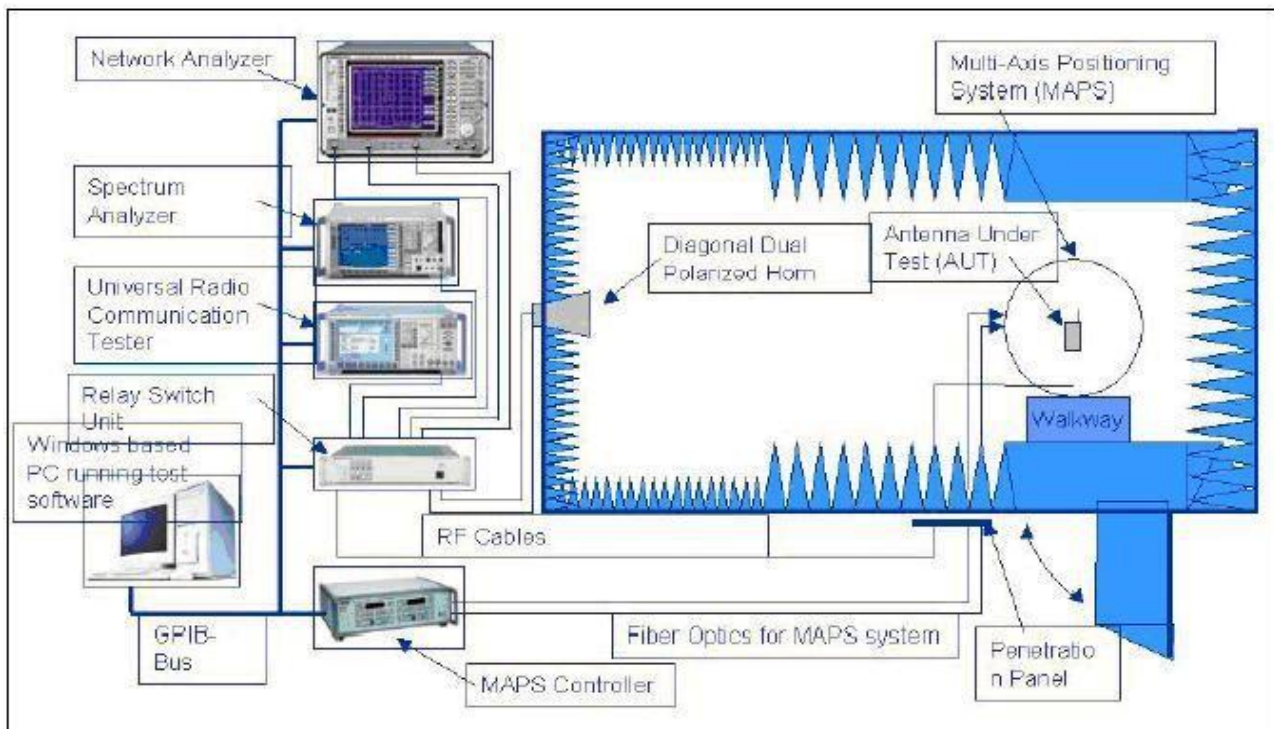
2. Test equipment



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.

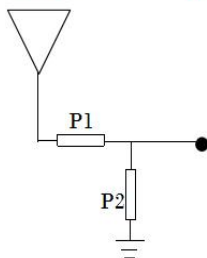
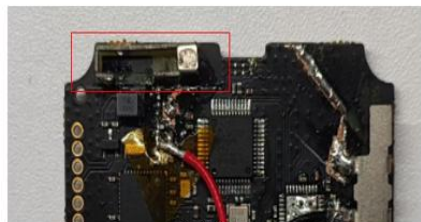


3. Test Results Summary

3-1 matching circuit

说明：带外壳测试，基于更新后的射频匹配调试天线L匹配，测试有源TRP/TIS

1、L型匹配位，由天线输入端开始，串位**0欧**电阻，并位**1pF**电容

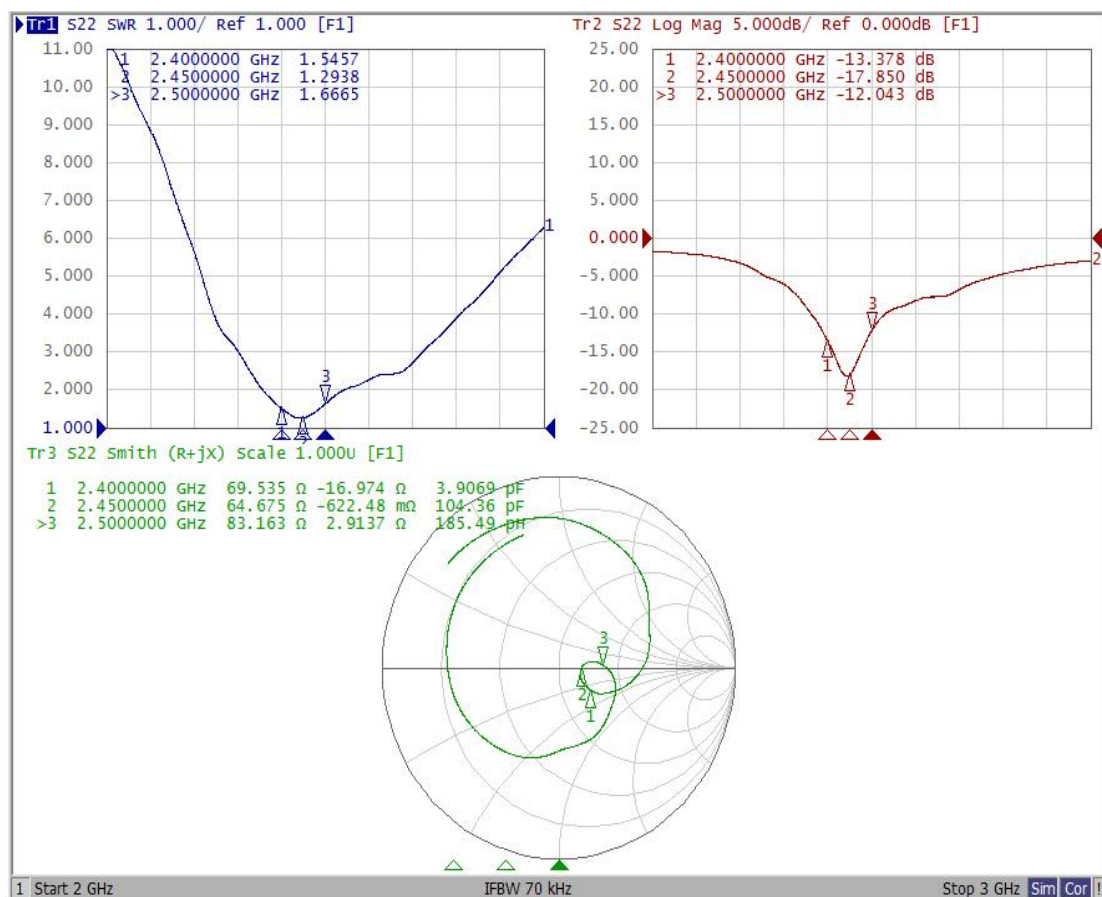


编号	数值	说明
P1	0欧	电阻
P2	1pF	电容

图 高147-44

UbdA 3	弹片天线-带外壳	
BLE (1M)	TRP	TIS
0 (2402MHZ)	-0.41	-92.87
20 (2442MHZ)	-0.95	-93.15
39 (2480MHZ)	-0.86	-93.16
串0欧姆-并1pF+末端加长1mm		

3-2 S11



3-3 Active Test

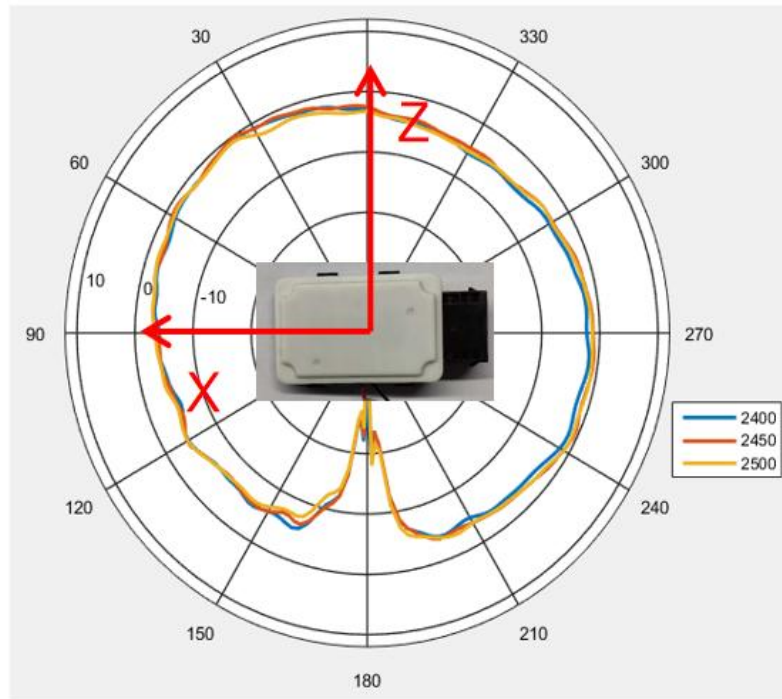
UbdA_3	弹片天线-带外壳	
BLE (1M)	TRP	TIS
0 (2402MHZ)	-0.41	-92.87
20 (2442MHZ)	-0.95	-93.15
39 (2480MHZ)	-0.86	-93.16

3-4 Passive Test

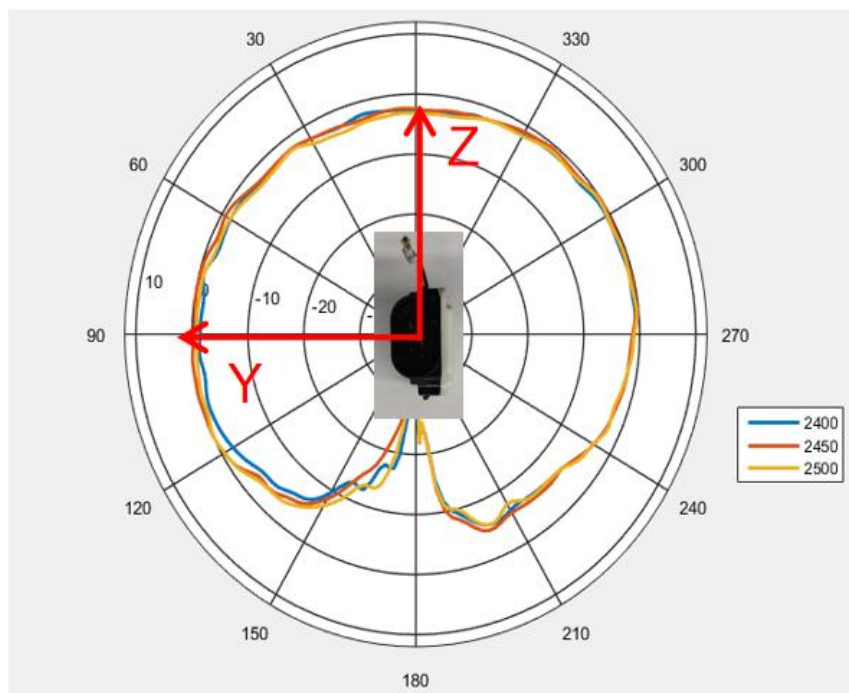
频率 (MHz)	增益 (dBi)	效率 (dB)	效率 (%)
2400	0.3778	-2.6617	54.1791
2410	0.4792	-2.4297	57.152
2420	0.5631	-2.1968	60.301
2430	0.5872	-2.0785	61.9656
2440	0.5749	-2.0609	62.2171
2450	0.6029	-2.0334	62.6124
2460	0.643	-2.016	62.8639
2470	0.4735	-2.1005	61.6529
2480	0.3937	-2.1689	60.6886
2490	0.4152	-2.2315	59.8198
2500	0.346	-2.2687	59.3103

3-5 Radiation Pattern Results

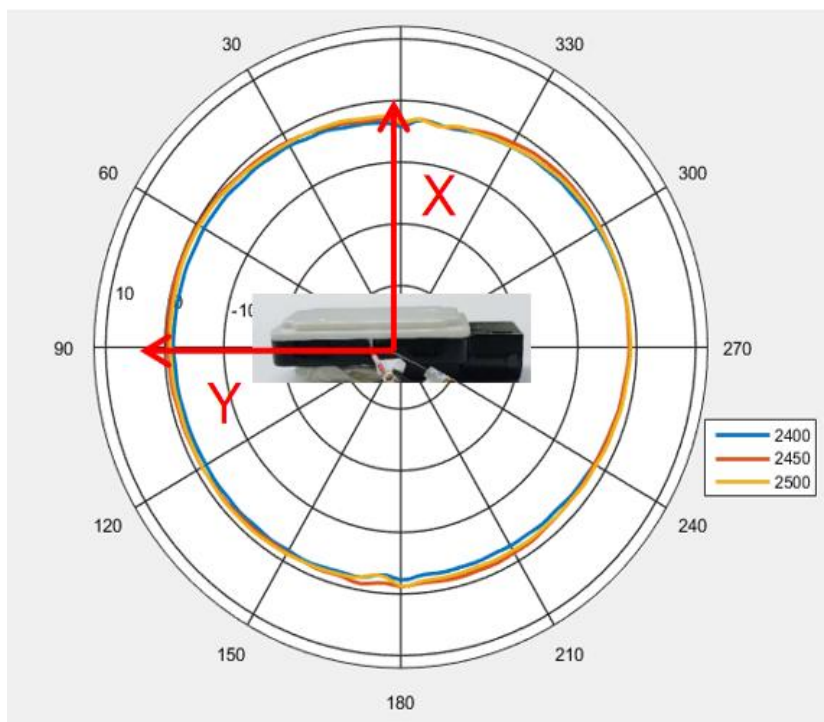
PHI=0



PHI=90



THETA=90

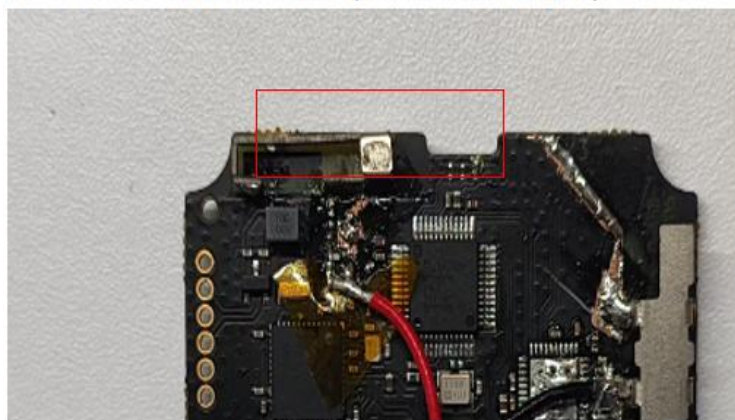


3-6 Environment treatment

说明：具体测试cable焊接点入上图所示

1、UbdA_3

2、BLE天线L型匹配位(更新射频匹配后)，UWB天线 π 型匹配位



SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER(客户名称)	LINKSCI
CS P/N(客户机种)	DKAM
PART NAME(品名)	UWB-2天线弹片
FREQUENCY(频率)	6250~6800/7600~7950/8000~8250MHz
CUS NO.(客户编号)	
ZTX NO.(物料编号)	1. 01. 01319
DATE(日期)	2025/1/14

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
0119		陈正伟	罗海群	



Shenzhen ZTX Communication Technology Co., Ltd

地址: 深圳市宝安区石岩镇石龙大道34号(腾达工业园)

邮编: 518000

电话: 0755-27588320

传真: 0755-27588045

<http://www.chinaztx.com>

Revision history

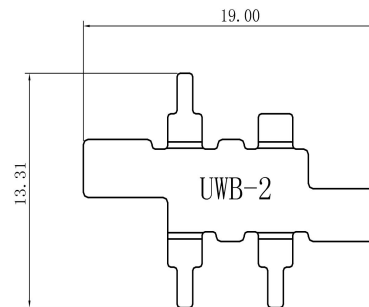
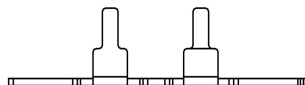
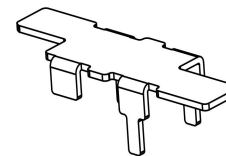
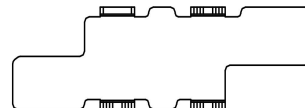
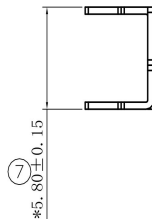
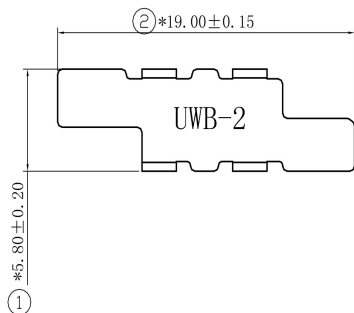
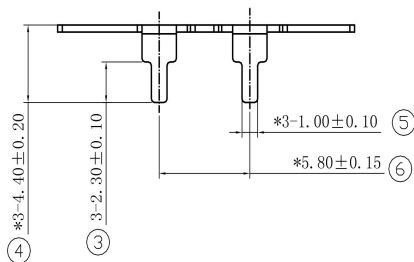
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图纸编号: ZTX-QR-RD-013

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V1	首次发行	陈正伟	2025.01.14



1:1展开图

备注:

- 角度尺寸模具设计时依图纸尺寸作参照,样品及量产实配即可;
- 打“*”为严格控制尺寸(IQC必测等级A);
- 材质说明:(SUS304 T=0.4mm 硬度1/2H、表面镀镍:1.0um以上);
- 字码说明(采用宋体,要求字迹清晰,弹片无变形);
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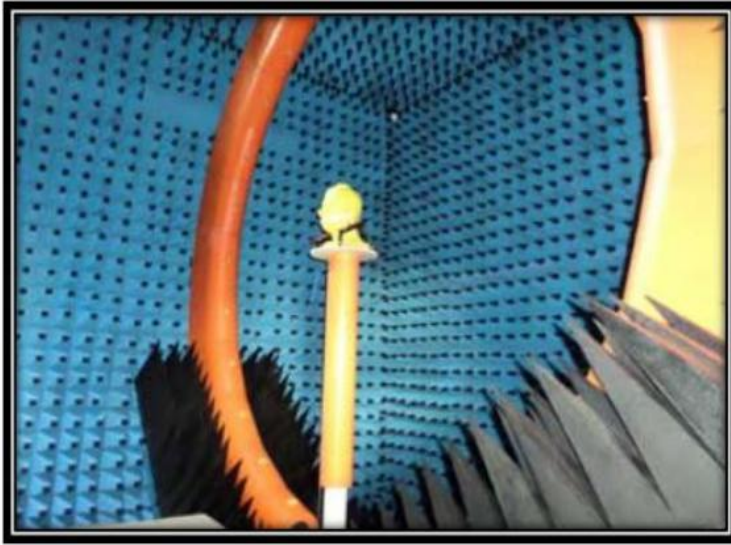
ZTX

深圳市中天迅通信技术有限公司

Shenzhen ZHONGTIANXUN Communication Technology Co.,Ltd

General Tolerance			Date 日期: 2025.01.14	Unit 单位: mm	Rev 版本: V1	Scale 比例: 1:1	Project code 项目代码: ZTX4864
Dim	Grade	A	B	Designed 设计: 陈正伟	Material 材料: SUS304 镀Ni		Project Name. 项目名称: DKAM
0-10		±0.10	±0.20	Checked 审核: 罗海群	Process 工艺:		Product Name 产品名称: UWB-2-天线弹片
10-20		±0.15	±0.30	Approval 批准: 邹国华	Third Angle 第三视角		Material Code 物料编码: 1.01.01319
20-40		±0.20	±0.40				
40		±0.25	±0.50				

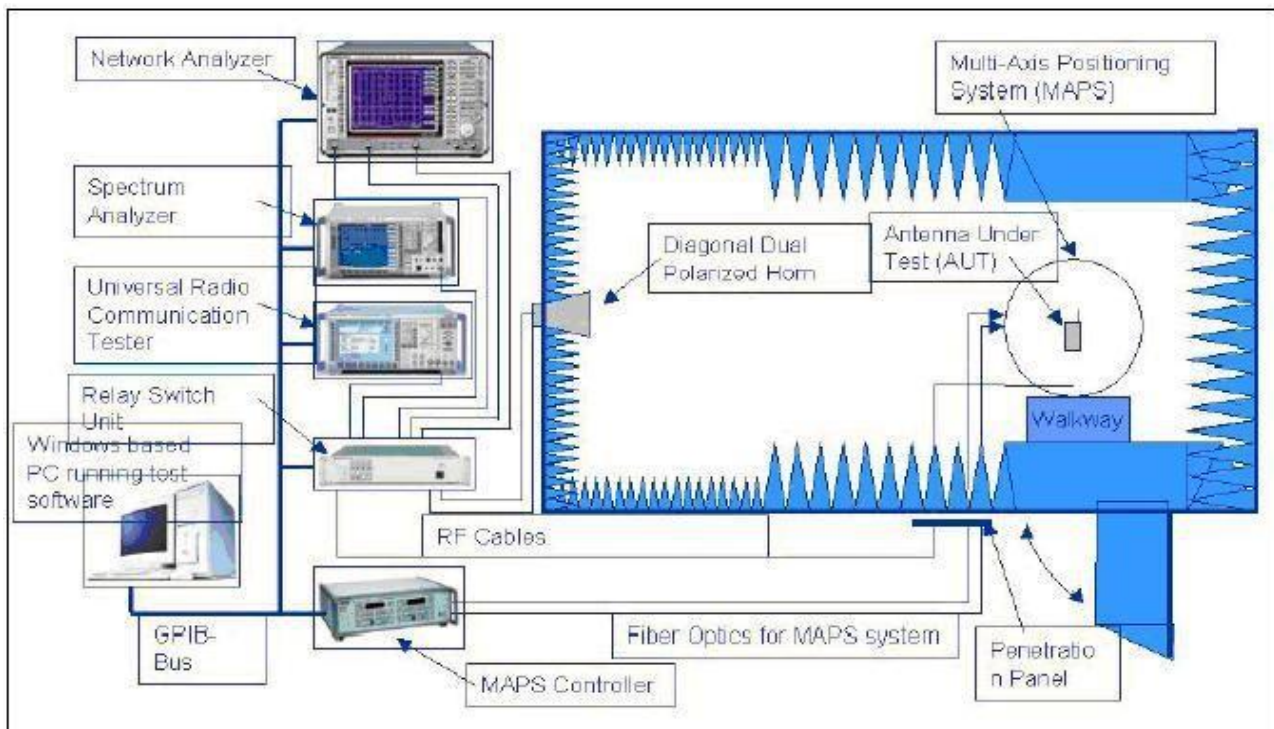
2. Test equipment



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Testing range:

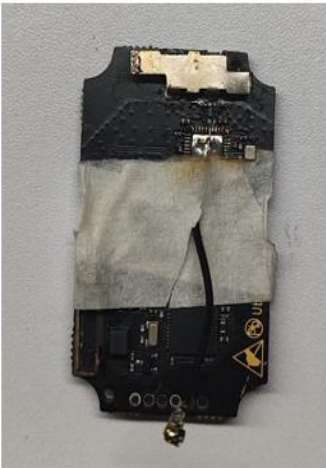
Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



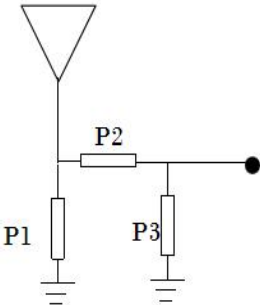
3. Test Results Summary

3-1 matching circuit

说明：带外壳测试
1、 π 型匹配位，由天线输入端开始，只有串位1.5nH电感其他匹配位NC



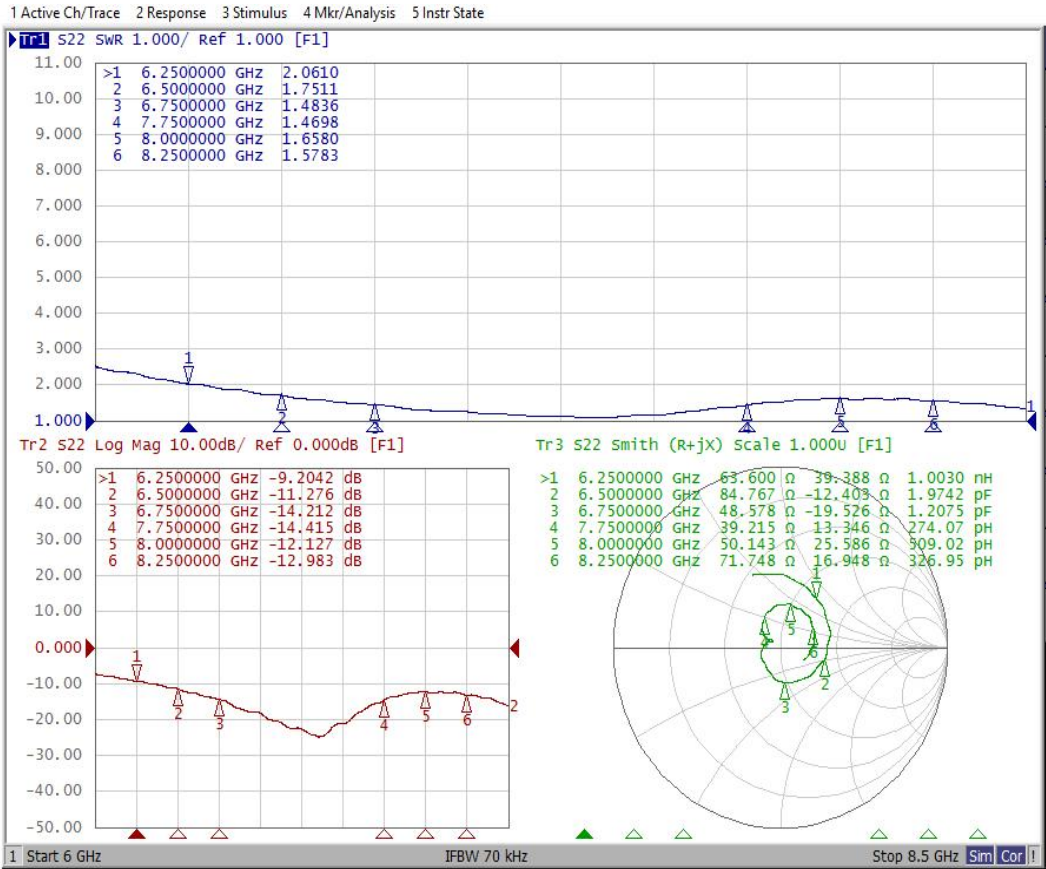
实物



编号	数值	说明
P1	/	/
P2	1.5nH	电感
P3	/	/

匹配拓扑

3-2 S11



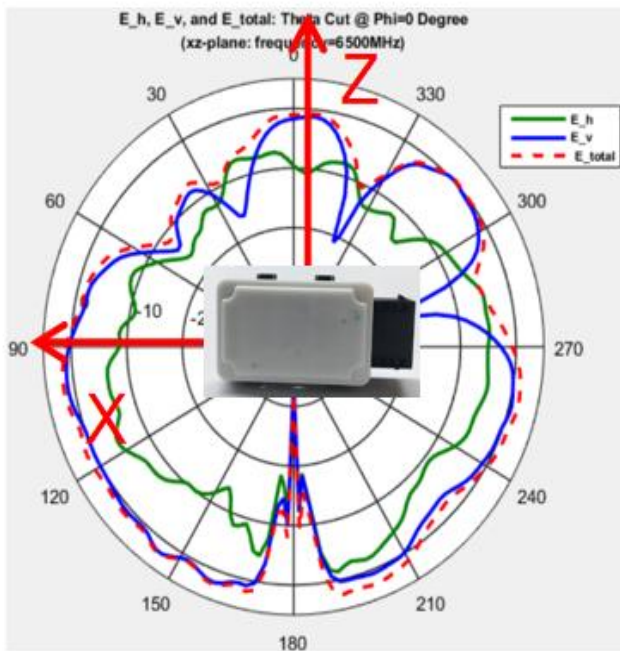
3-3 Passive Test

UbdA_3_UWB			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
6250	4.91	-1.28	74.42
6300	4.70	-1.36	73.14
6350	4.62	-1.34	73.40
6400	4.73	-1.13	77.08
6450	4.57	-1.19	76.08
6500	4.26	-1.34	73.47
6550	4.50	-1.12	77.34
6600	3.72	-1.50	70.72
6650	3.81	-1.35	73.32
6700	3.37	-1.43	71.94
6750	2.82	-1.94	63.92
6800	3.15	-1.39	72.67
7600	3.81	-1.71	67.41
7650	4.14	-1.61	69.08
7700	3.92	-1.92	64.21
7750	3.82	-1.72	67.32
7800	4.10	-1.53	70.34
7850	3.99	-1.73	67.19
7900	3.30	-2.66	54.21
7950	3.63	-2.17	60.62
8000	3.01	-2.59	55.09
8050	3.42	-2.34	58.36
8100	3.08	-2.40	57.48
8150	2.86	-2.67	54.09
8200	2.93	-2.59	55.04
8250	2.83	-3.45	45.23

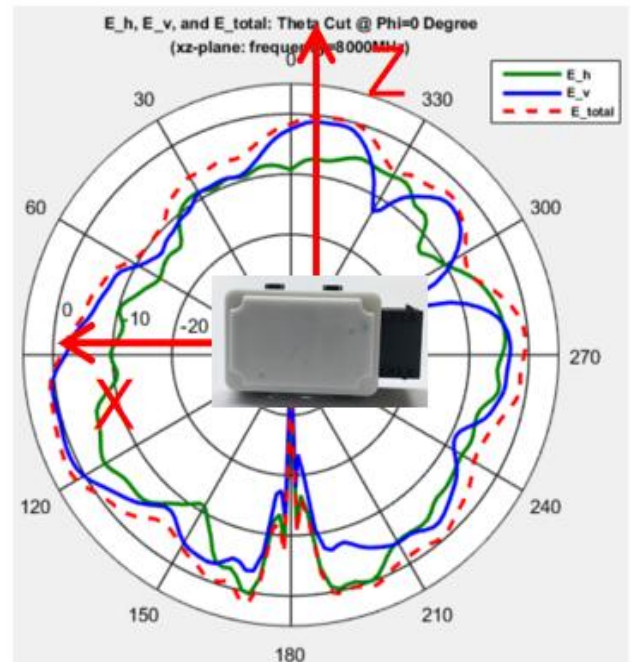
3-4 Radiation Pattern Results

PHI=0

CH5

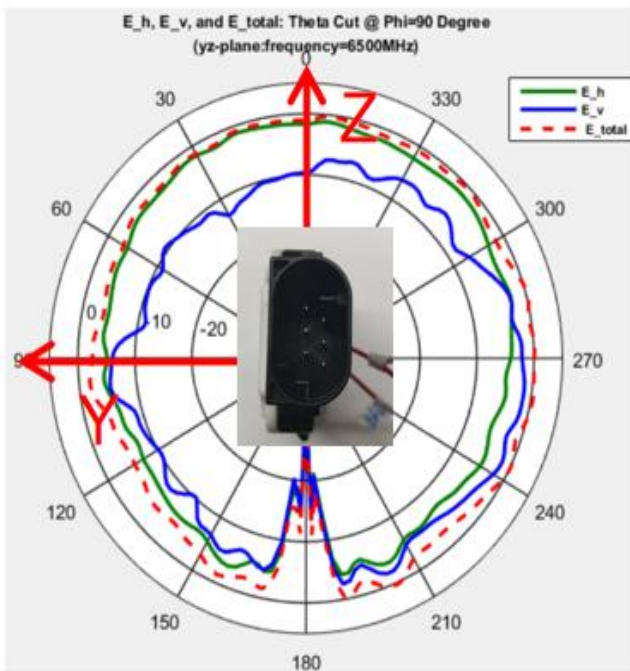


CH9

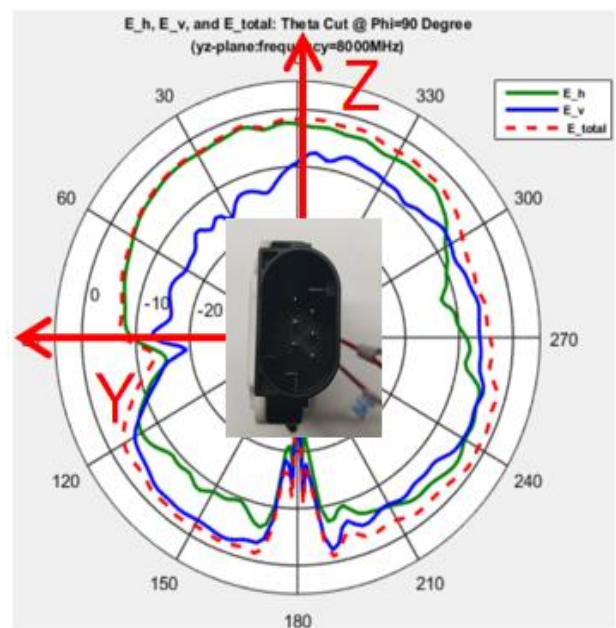


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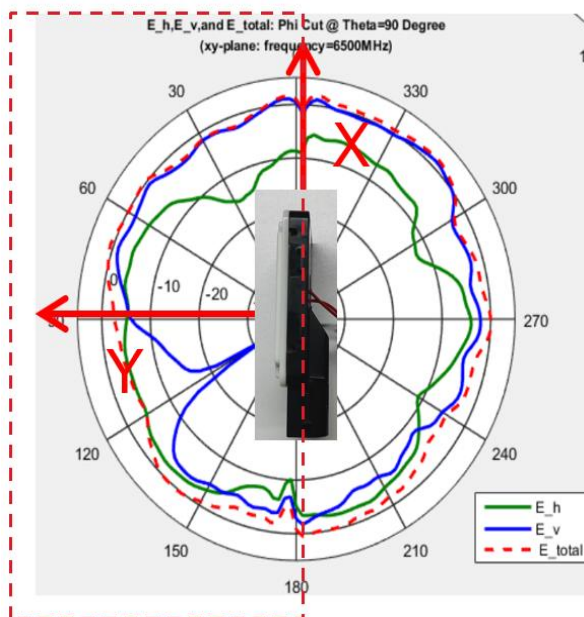


CH9

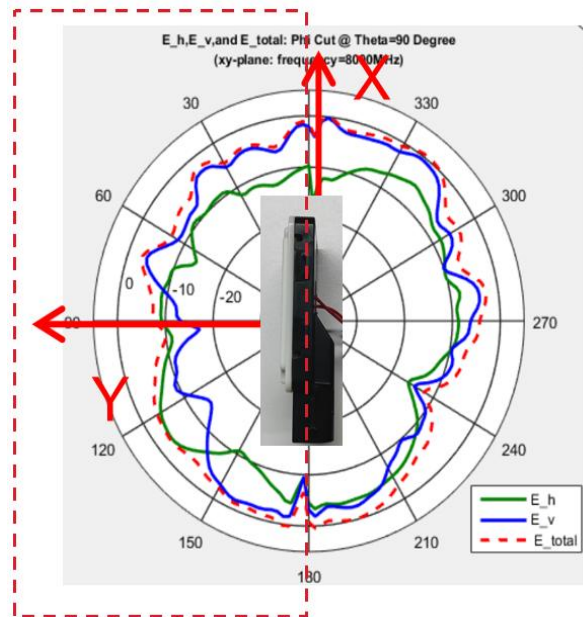


THETA=90

CH5



CH9



3-5 Environment treatment

说明：具体测试cable焊接点入上图所示

UbdA_3版本，UWB天线 π 型匹配位

