

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: R: A1)

CUSTOMER(客户名称)	Anker	
CS P/N(客户机种)	T8520P	TC8520
PART NAME(品名)	WIFI天线组件	
FREQUENCY(频率)	2.4-2.5GHz	
ANTENNA MANUFACTURER (天线制造商)	深圳市中天迅通信技术股份有限公司	
ZTX NO.(物料编号)	2.00005896	
DATE(日期)	2023-04-23	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): \_\_\_\_\_

MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
2023.04.23		陈斌	李昌明	

**ZTX 中天迅**

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# ANTENNA SPECIFICATION

CUS P/N :ZXT-T8520P-WiFi-T2.0 WIFI天线组件 ApplicationDate:Apr,23,2023

Rev: R:A1

ZTX P/N :ZXT-T8520P-WiFi-T2.0 WIFI天线组件 Editor:

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## Revision history

版本	日期	状态
A1	2023-04-23	首版

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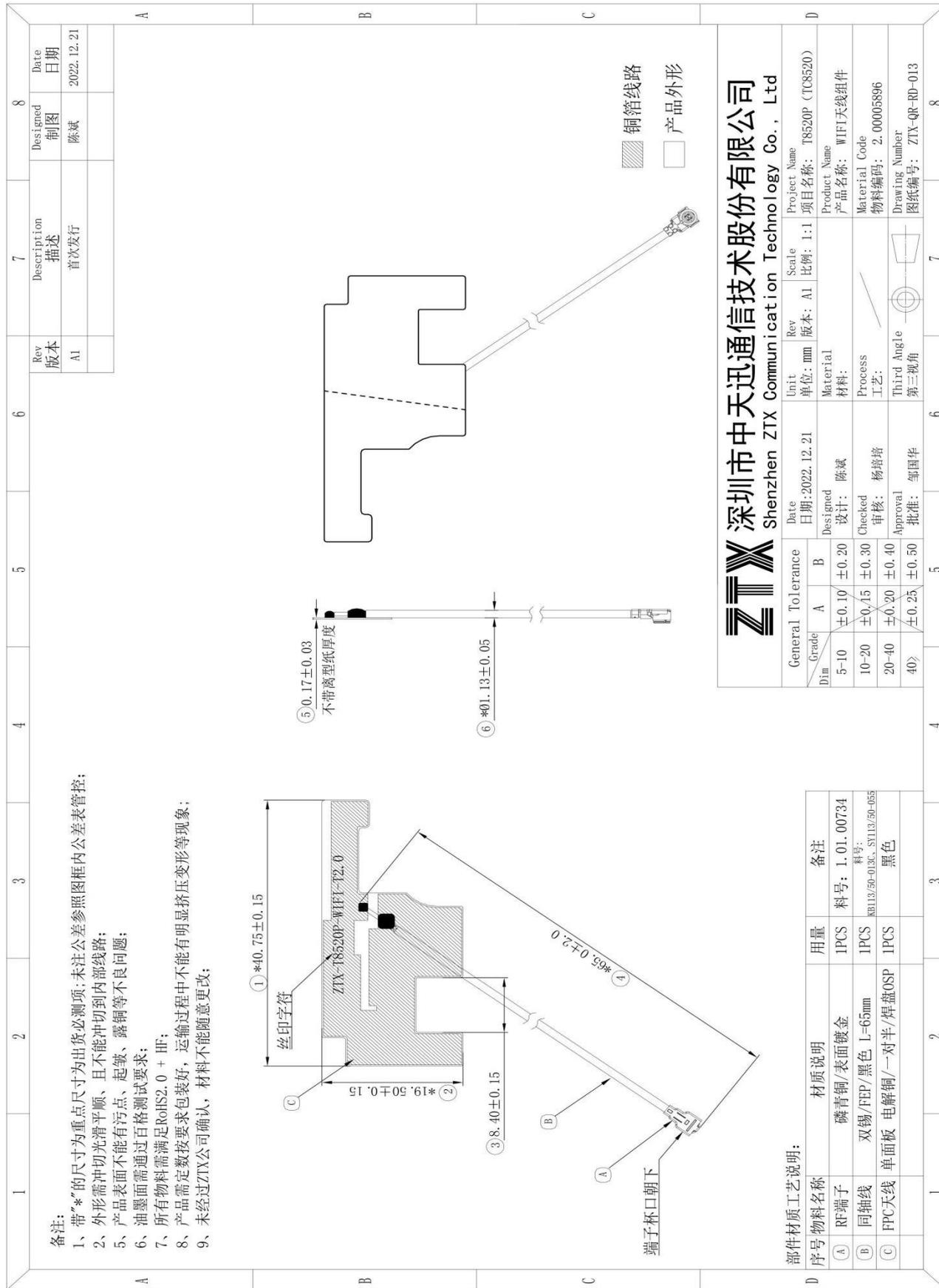
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## 1. Mechanical Specification

### 1-1 Mechanical Configuration (T8520P WIFI天线组件)



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## 2.FAI



## 样品检测报告

客户名称	安克	产品名称	T8520P (TC8520) WIFI天线组件	数量	10PCS
产品材质	同轴线黑+端子+FPC	材料颜色	黑色	日期	2023/2/28

产品类型: 新模样品 改模样品 量产 其它

NO	类型	工程图纸要求尺寸	上公差	下公差	实测尺寸										判定	备注
					1	2	3	4	5	6	7	8	9	10		
1	*	40.75	0.15	0.15	40.78	40.73	40.71	40.76	40.70	40.82	40.79	40.77	40.80	40.72	OK	
2		19.50	0.15	0.15	19.42	19.54	19.46	19.58	19.56	19.44	19.52	19.49	19.53	19.57	OK	
3		8.40	0.15	0.15	8.42	8.36	8.47	8.35	8.45	8.39	8.44	8.38	8.46	8.45	OK	
4	*	65.00	2.00	2.00	64.90	65.23	65.14	65.08	65.12	64.95	64.92	65.93	65.50	65.18	OK	
5		0.17	0.03	0.03	0.16	0.17	0.17	0.17	0.16	0.16	0.17	0.16	0.16	0.16	OK	
6	Ø	1.13	0.05	0.05	1.12	1.13	1.12	1.12	1.12	1.12	1.13	1.11	1.12	1.12	OK	
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

外观: OK

其它: 一致性测试OK

总判定:  OK  NG

批准: 邓孝华 审核: 张昭 作成: 邹林

备注:

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## 3.Test Report



### 测试报告(Test Report)

测试报告(Test Report)								
样品名称 (Product name)	WIFI天线组件		样品型号 (Part Model)	T8520P (TC8520)		环境温度 (Ambient temperature)	20±5℃	
样品数量 (Specimens quantity)	12PCS		客户料号 (Customer number)	/		相对湿度 (Relative humidity)	50-60%RH	
测试原因 (Test reasons)	<input checked="" type="checkbox"/> 新型号材料验证 <input type="checkbox"/> 新工艺验证 <input type="checkbox"/> ORT测试 <input type="checkbox"/> 过期物料 <input type="checkbox"/> 客户投诉/要求 <input type="checkbox"/> 高不良率 <input type="checkbox"/> 其他: 定期回行性分析					测试依据 (Test documentation)	<input type="checkbox"/> 产品图纸 <input checked="" type="checkbox"/> 天线可靠性检验基准书 <input type="checkbox"/> 客户要求 <input type="checkbox"/> 出货检验基准书 <input type="checkbox"/> 其他:	
序号 (NO)	测试项目 (Test project)	样品数 (Samples Qty.)	测试仪器 (Test equipment)	测试条件与要求 (Test condition and note)	测试结果 (Test result)	结论 (Conclude) (Pass/Fail)	样品图片/实测值	
1	盐雾测试	3	盐雾测试机	条件: 1.将产品以30度±5度放置于试验箱 2.调试好试验箱参数: NaCl(无水); 浓度5%±1%; pH值: 6.5~7.2; 试验室温度: 32-38℃; 压缩空气压力:1.0±0.01(KG/M2)喷雾量: 1.0~2.0ML/80CM2/H.相对湿度:85%±2%;试验品放置角度:30度+/-10度 3.放置时间为48小时. 4.清洗后在室温条件内放置2H观察 要求: 镀(涂)层无脱落、起泡、腐蚀、氧化等不良现象; 产品表面不可有锈斑等不良现象	均未出现镀层脱落及氧化现象。	Pass		
2	高温测试	3	高温交变湿热试验箱	1.将样品放入高温 85℃ 的环境中保持48小时后取出 2.在室温条件下放置2H.	试验后产品无变形, 无变色, 无脱落, 无起翘, 电性功能完好	Pass		
3	低温测试	3	低温冰箱	1.将样品放入低温 -40℃ 的环境中保持48小时后取出 2.在室温条件下放置2H.	试验后产品无变形, 无变色, 无脱落, 无起翘, 电性功能完好	Pass		
4	高温高湿储存测试	3	高温交变湿热试验箱	1.取样3pcs 2.将测试样品置于测试箱中(温度70±2℃, 湿度90%~95%RH), 放置48H后取出检查.	试验后产品无变形, 无变色, 无脱落, 无起翘, 电性功能完好	Pass		

备注(Comments):

核准(Approved by): 邓孝华

审核(Checked by): 易爱玲

测试(Name of operator): 李丽华

表单编号: ZTX-QR-QA-076 版本: A1

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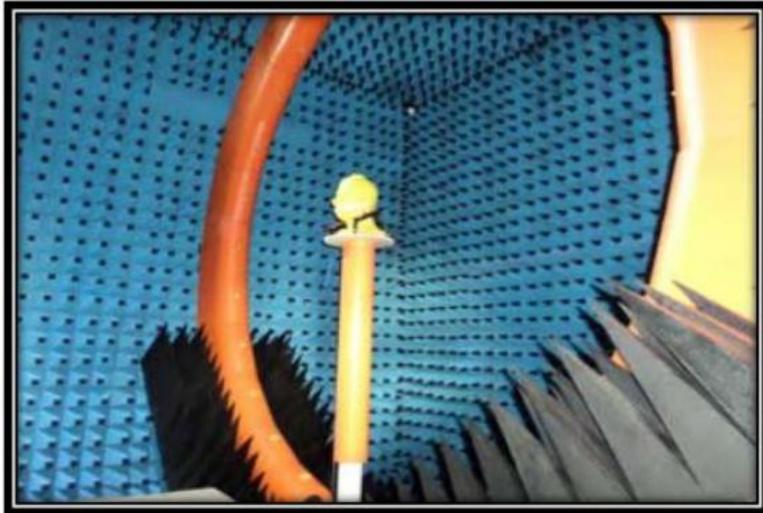
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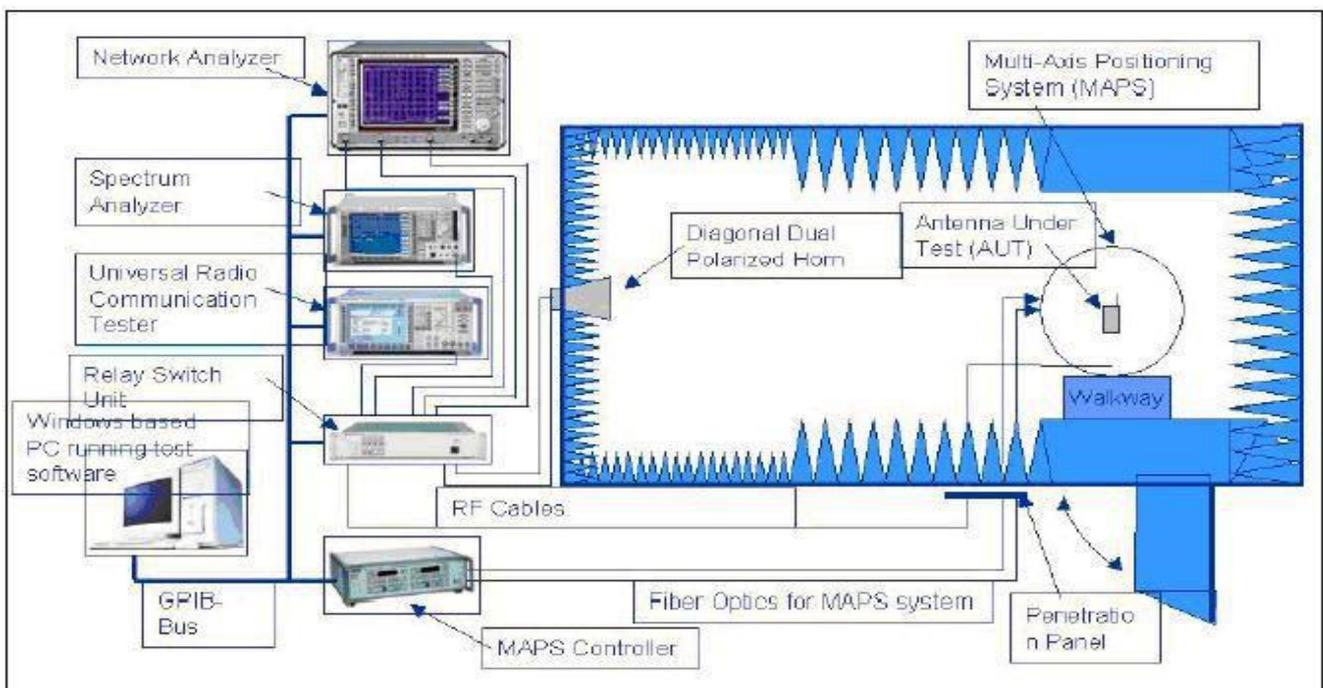
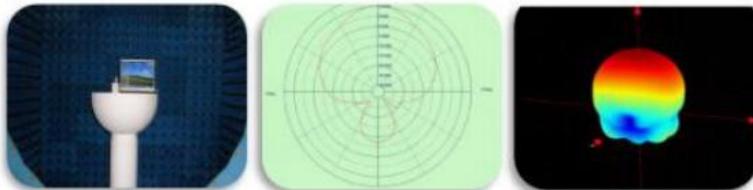
## 4.Test equipment



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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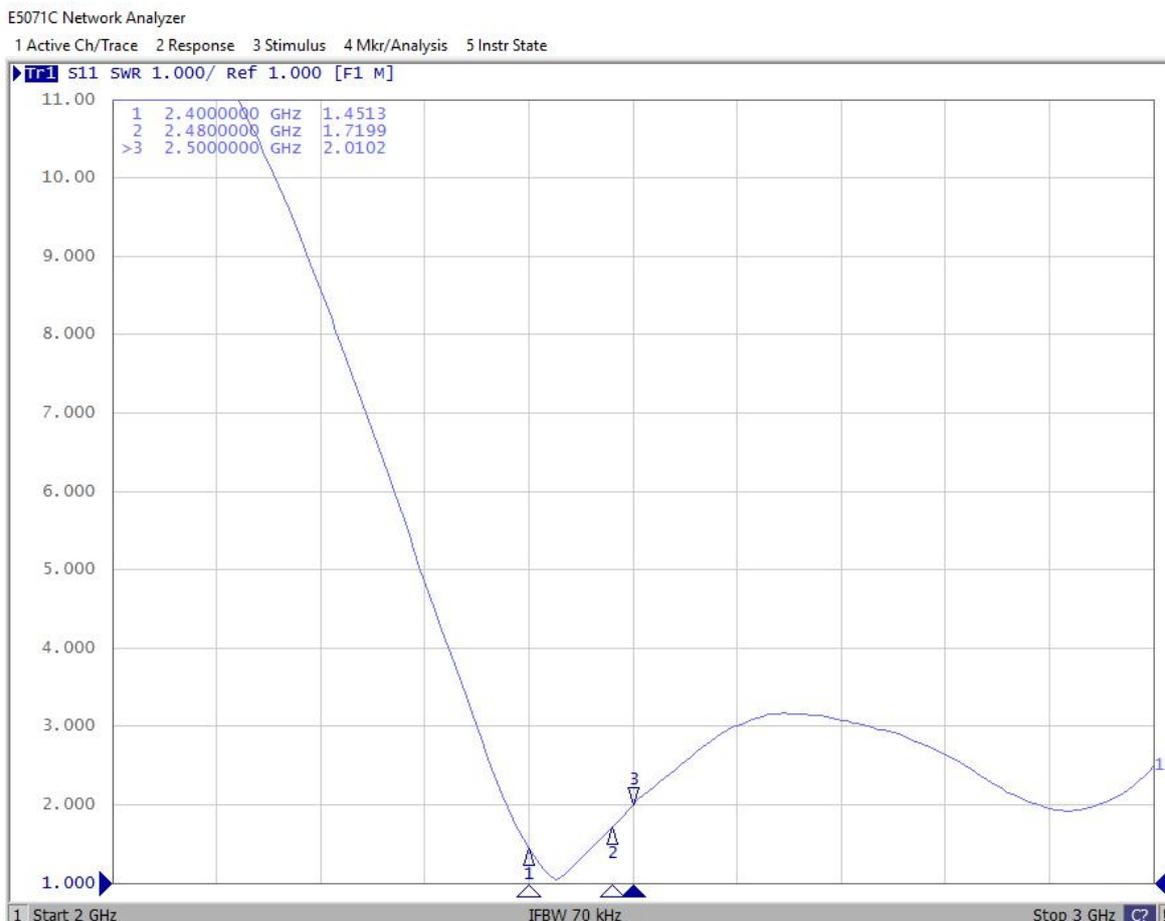
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## 5.Test Results Summary

### 5-1 VSWR



### 5-2 Passive Test

Frequency	Efficiency	Efficiency dB	Gain dB
2.4E+09	52%	-2.8	3.0
2.41E+09	54%	-2.7	3.0
2.42E+09	54%	-2.7	2.8
2.43E+09	54%	-2.6	2.6
2.44E+09	56%	-2.6	2.6
2.45E+09	55%	-2.6	2.4
2.46E+09	52%	-2.8	2.3
2.47E+09	52%	-2.9	2.5
2.48E+09	51%	-2.9	2.5
2.49E+09	51%	-2.9	2.5
2.5E+09	50%	-3.0	1.9

# ANTENNA SPECIFICATION

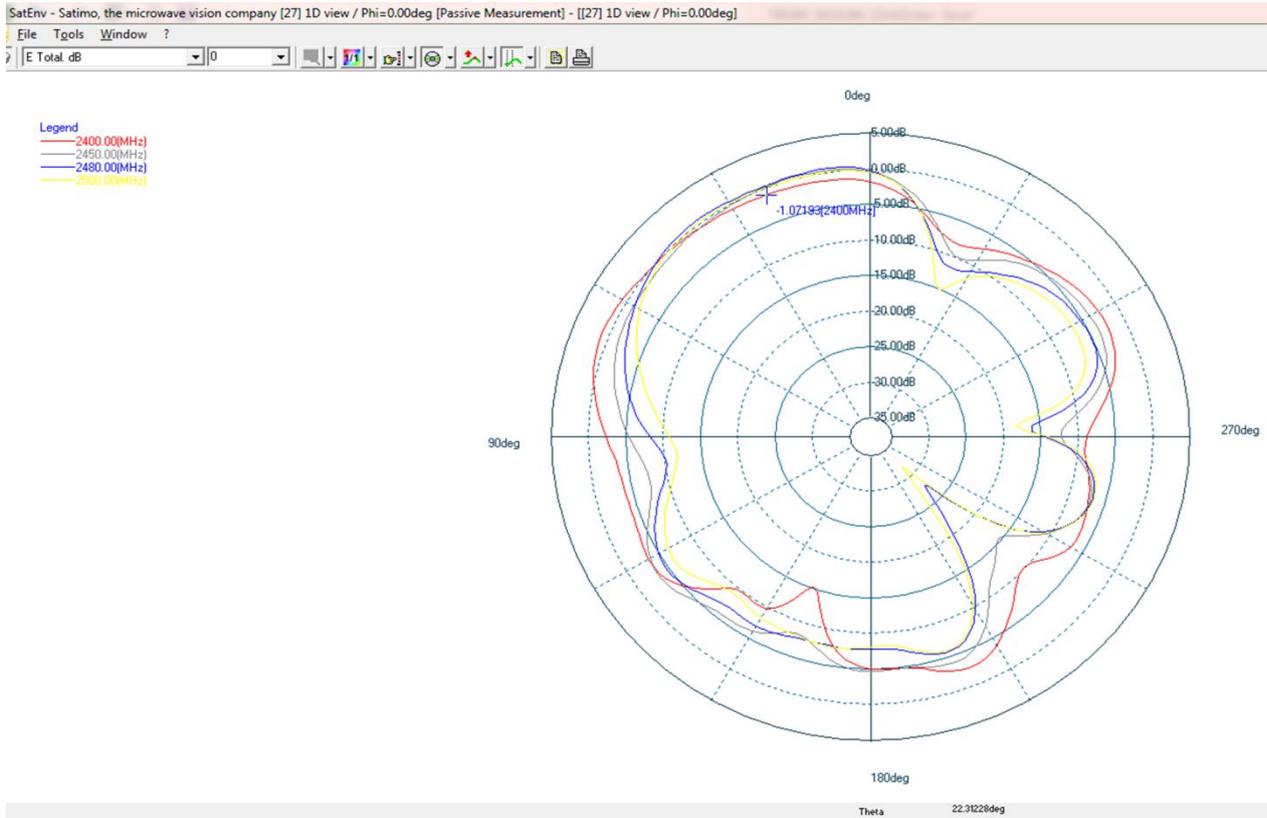
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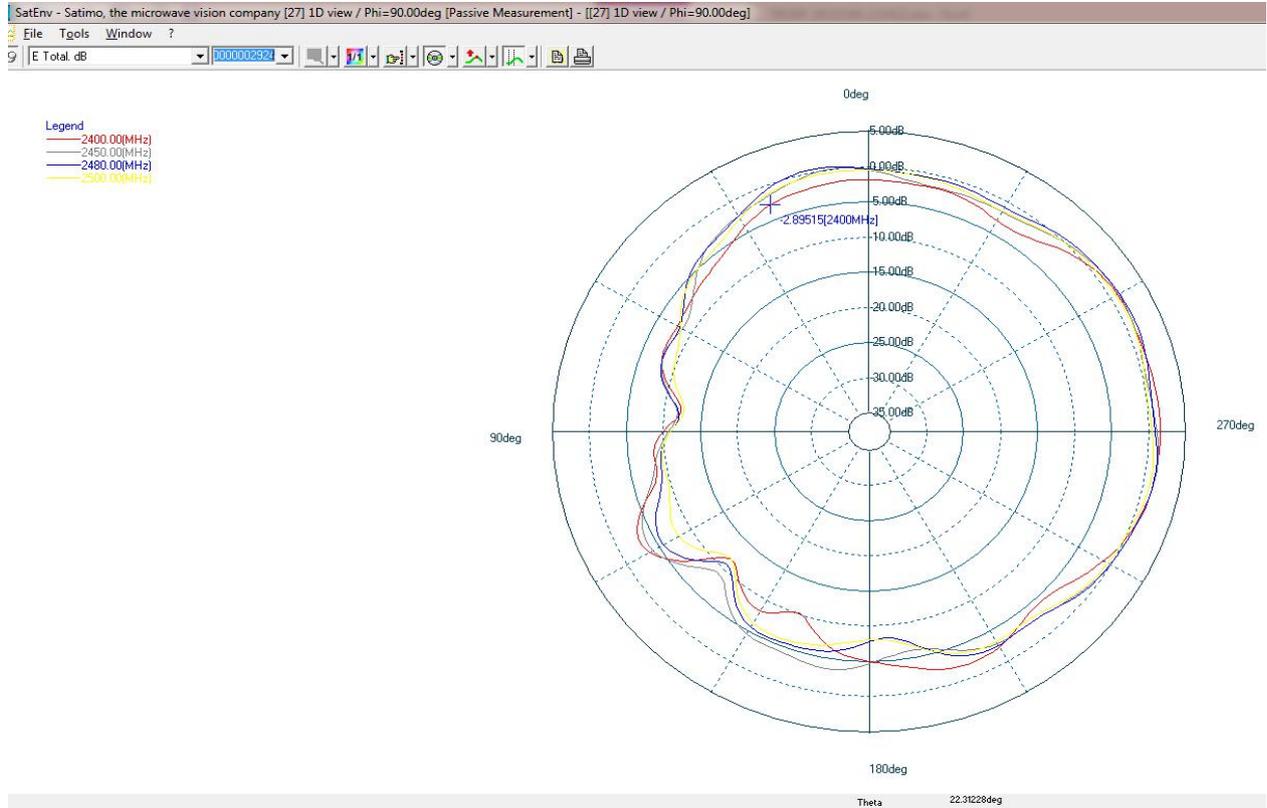
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## 5-3 2D/3D Radiation Pattern Results

Phi0



Phi90



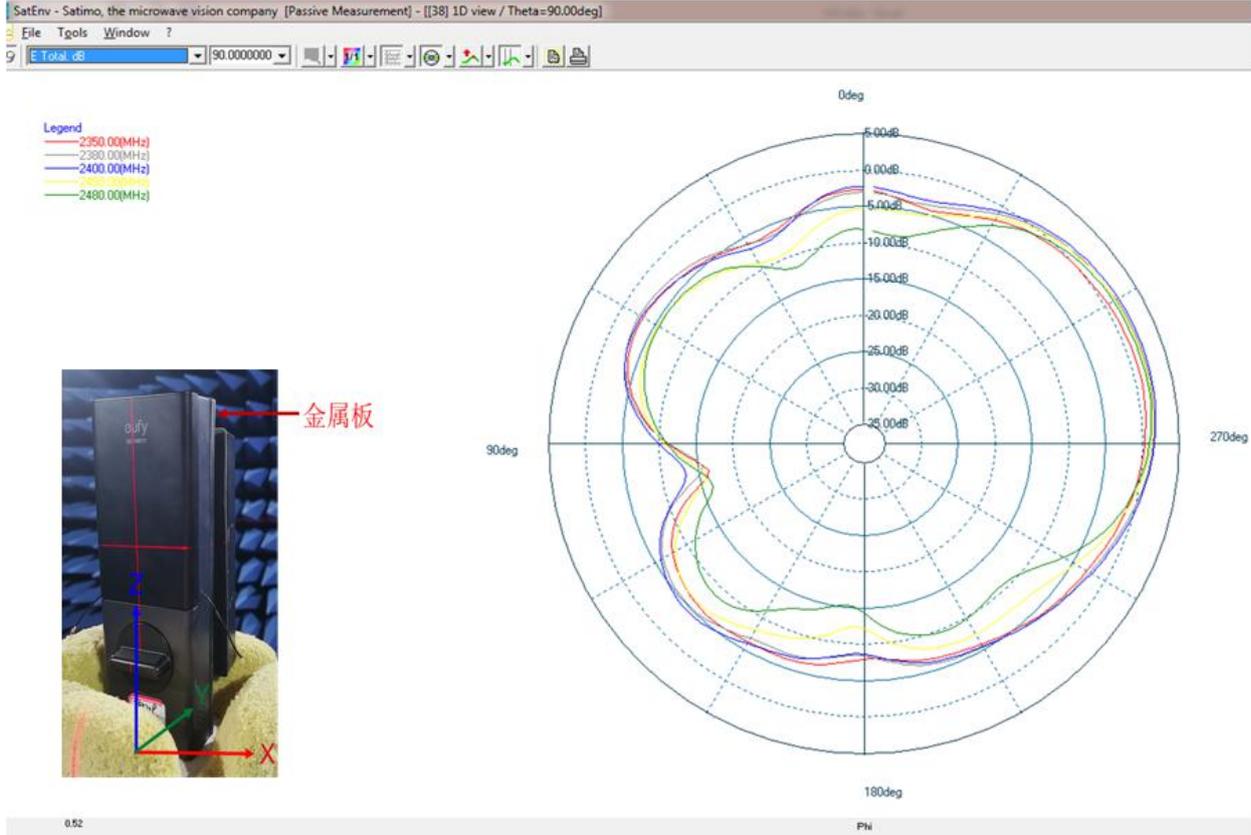
Theta90

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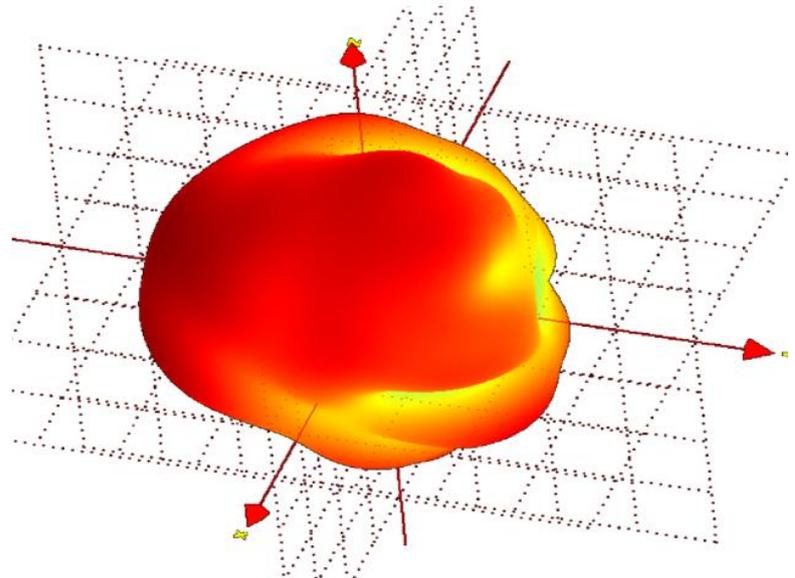
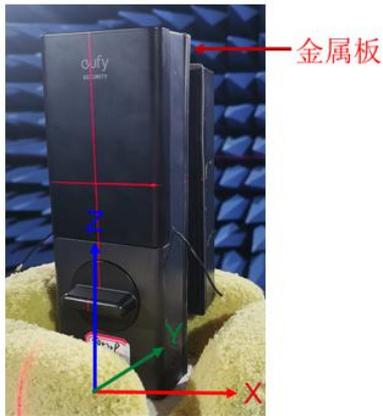
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2450MHz



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## 5-5 Environment treatment



金属板

