



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2450-75F82BX-W

Product Name: Antenna

Specification For Approval

Date:2025.11.14

Version: 1.0

客户名称

Customer:

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2450-75F82BX-W

规格描述

Description :

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制作	路婷	TESTED BY 检测	
CHECKED BY 审核	胡超	CHECKED BY 审核	
Q.C.DEPT. 品管	周志红	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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Index:

1. Specification (规格)
2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
3. Antenna - S Parameter Test Data (样品测试数据)
4. Test environment and equipment (测试环境以及设备)
5. Antenna - Radiation Pattern Test Data (辐射模式测试数据)
6. Mechanical and Packing Drawing (图纸包装规范)

Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.11.14	初版	

Product Number: AN2450-75F82BX-W

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500 MHz/5150-5850MH
S.W.R. 驻波比	<= 2.0 / <= 2.5
Antenna Gain 增益	4.61dBi /4.52dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	
Cable Type 线材规格	13.6mm
Connector Type 连接器规格	
C. Environmental	
Storage Temperature 存储温度	- 40 °C ~ + 80°C
Operation Temperature 工作温度	- 40 °C ~ + 80°C

Product Number: AN2450-75F82BX-W

Product Name: Antenna

2. Characteristics and Reliability Test

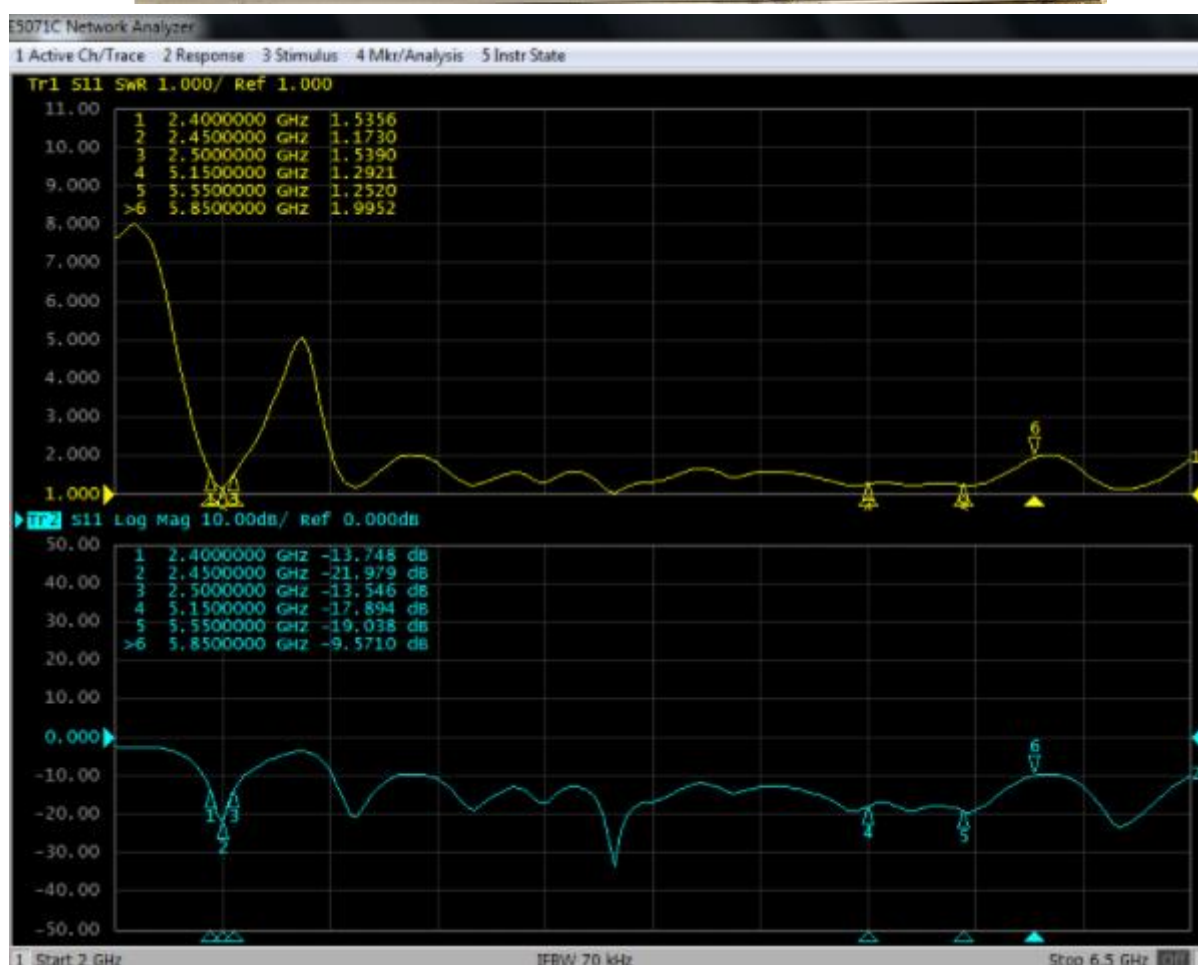
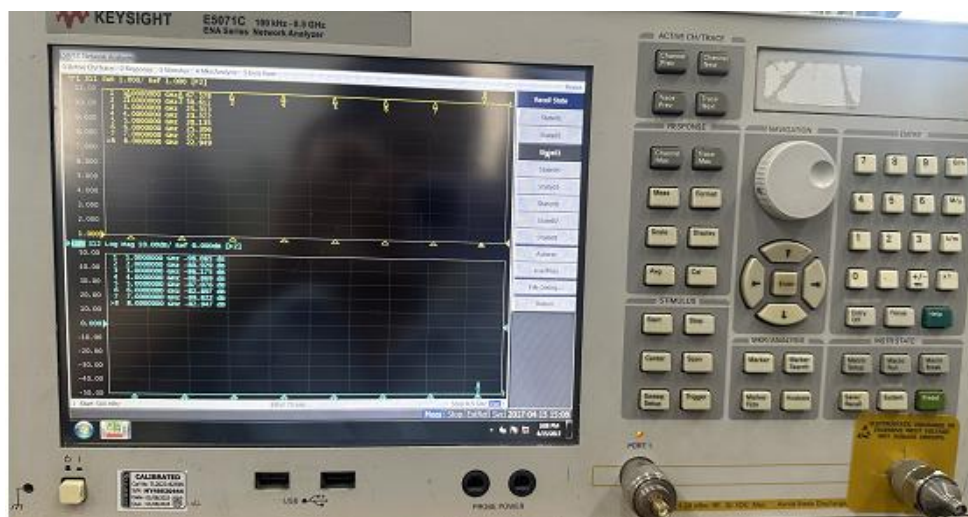
Test Items 测试项目		Test Condition and Procedure 测试方法	Requirements 要求	Result 结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
2	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test 设置天线暗室参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal 单独定义产品端子拉力	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	PASS
4	Dimension 尺寸	Inspection of dimension, color, material, package, surface process. 检查尺寸, 颜色, 材料, 包装, 表面处理	Directive DUT specification 符合待测物规范	PASS
5	Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$; Time: 24H 温度 35°C; 湿度 $\geq 95\%$; 盐水浓度 $\geq 5\%$; 测试 24H	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
6	Temperature and Humidity Chamber 恒温恒湿	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: $\geq 90\%$; Time: 24H 温度 80°C 测试 12H 转 -40°C 测试 12H; 湿度 $\geq 90\%$; 时间 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 恢复 2H 后, 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
7	Aging test 老化	GB / T 2423.2 - 2008 Temp: 80°C; Time: 24 hours 温度 80°C, 测试 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
8	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2011/65/EU 符合 RoHS 2015/863/EU 标准	PASS

Product Number: AN2450-75F82BX-W

Product Name: Antenna

3. Antenna - S Parameter Test Data

测试仪器: VSWR 是使用安捷伦 E5071C 连接到治具来测试, 状态为自由空间。



Product Number: AN2450-75F82BX-W

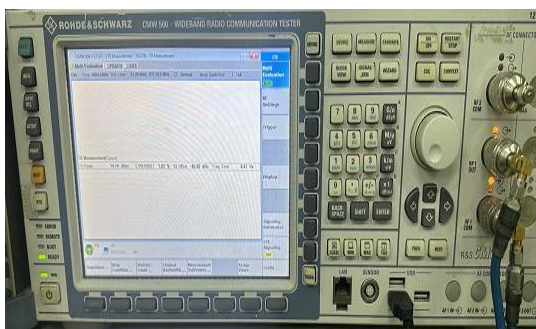
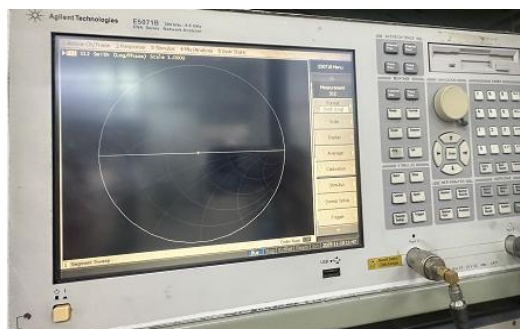
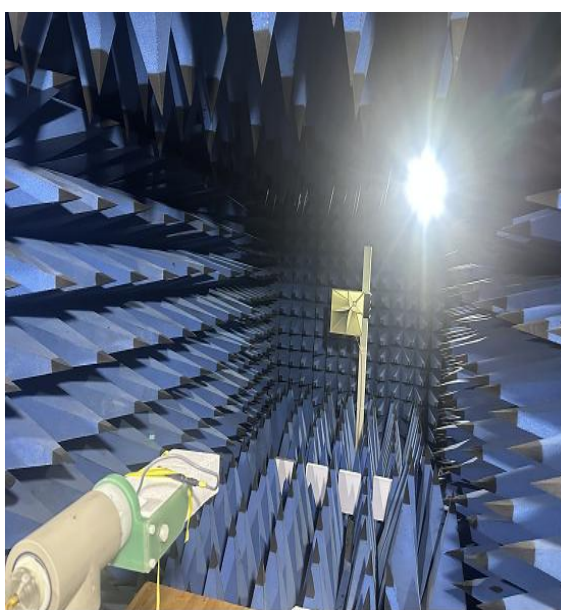
Product Name: Antenna

4. Test environment and equipment

暗室规格: 6m*6m*6m/7m*3m*3m

LTE-TDD/FDD-SCDMA 测试设备: ROHDE&SCHWARZ CMW500

无源效率测试设备: Agilent Technologies E5071B



Product Number:AN2450-75F82BX-W

Product Name: Antenna

5. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	4.42	4.39	4.39	4.30	4.59	4.41	4.61	4.52	4.59	4.55	4.33
Efficiency (%)	74.18	72.97	75.43	72.14	76.06	72.96	74.31	75.69	70.22	73.66	70.44

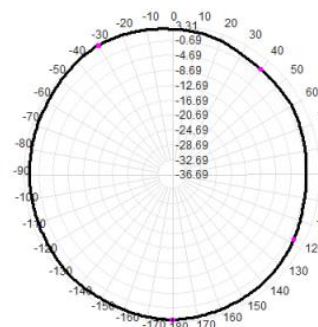
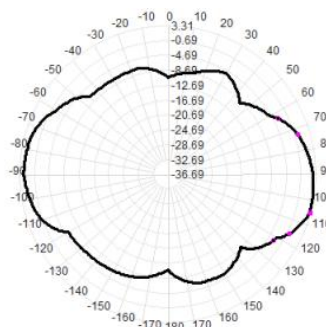
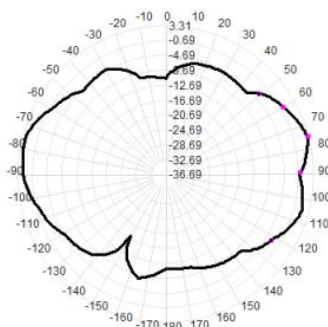
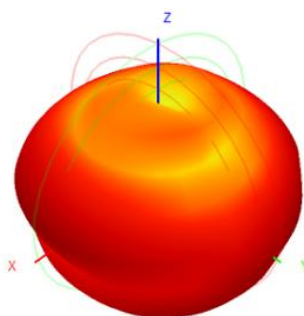
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
3.88	3.47	3.75	4.14	4.13	4.43	4.23	4.42	4.19	4.19	4.52	4.26	3.95	3.83	3.71
57.85	59.42	64.63	61.07	60.63	63.34	61.05	62.02	59.70	56.74	57.88	54.15	55.68	55.69	57.88

XZ

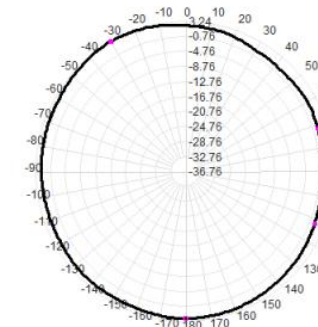
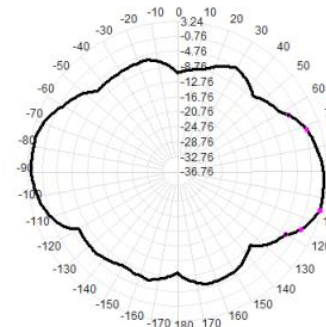
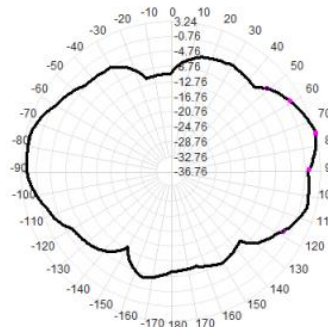
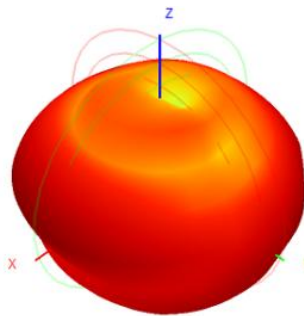
YZ

XY

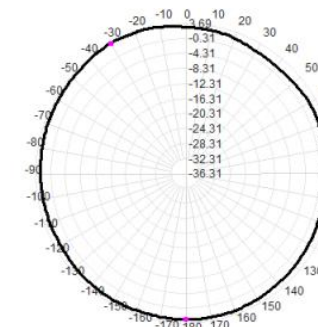
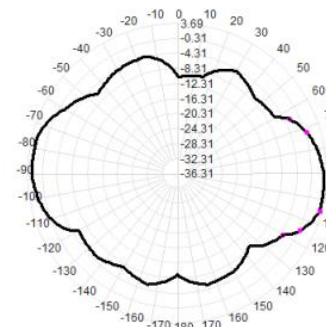
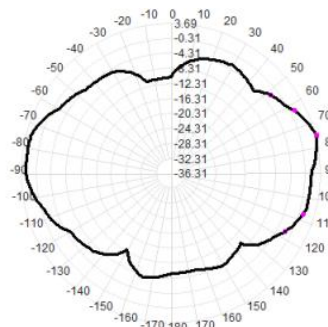
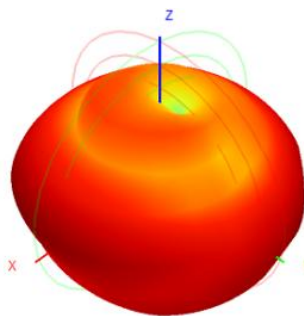
2400MHz



2450MHz



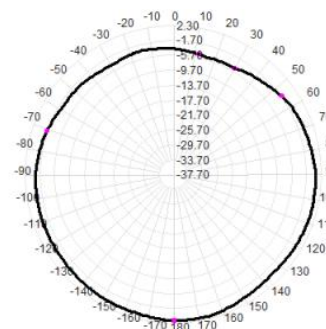
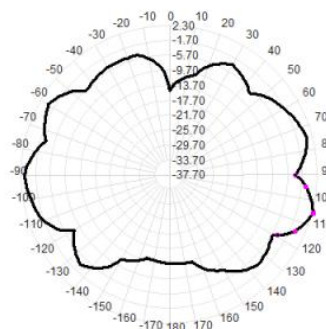
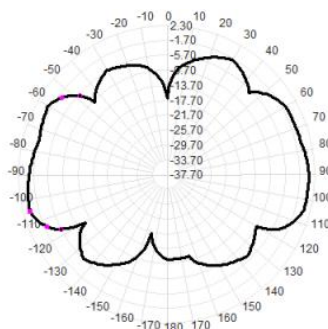
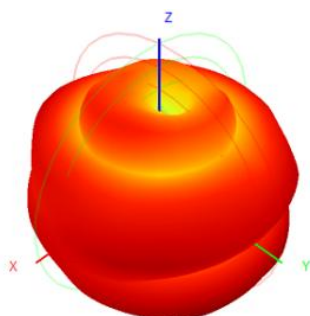
2500MHz



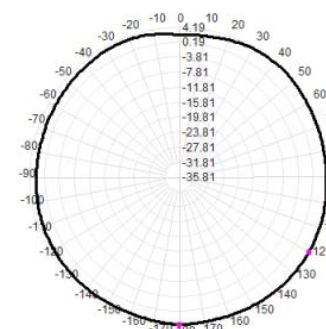
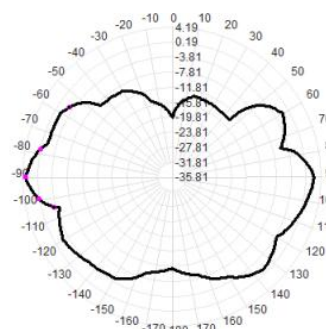
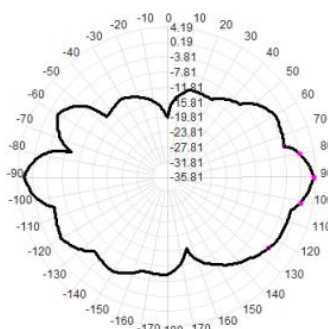
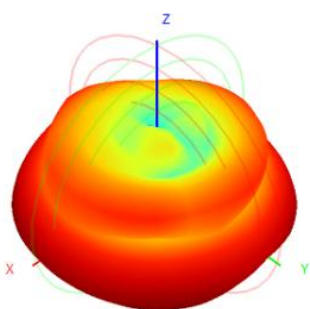
Product Number:AN2450-75F82BX-W

Product Name: Antenna

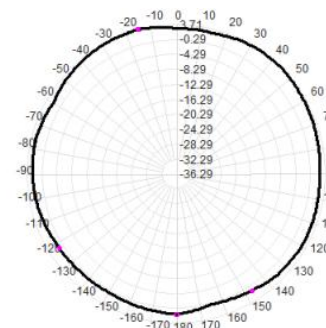
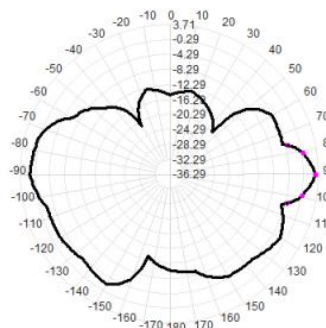
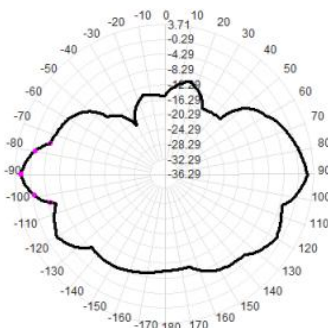
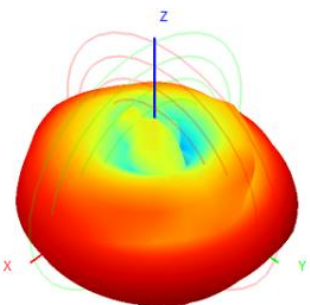
5150MHz



5550MHz



5850MHz



6. Mechanical Drawing See attached files

