

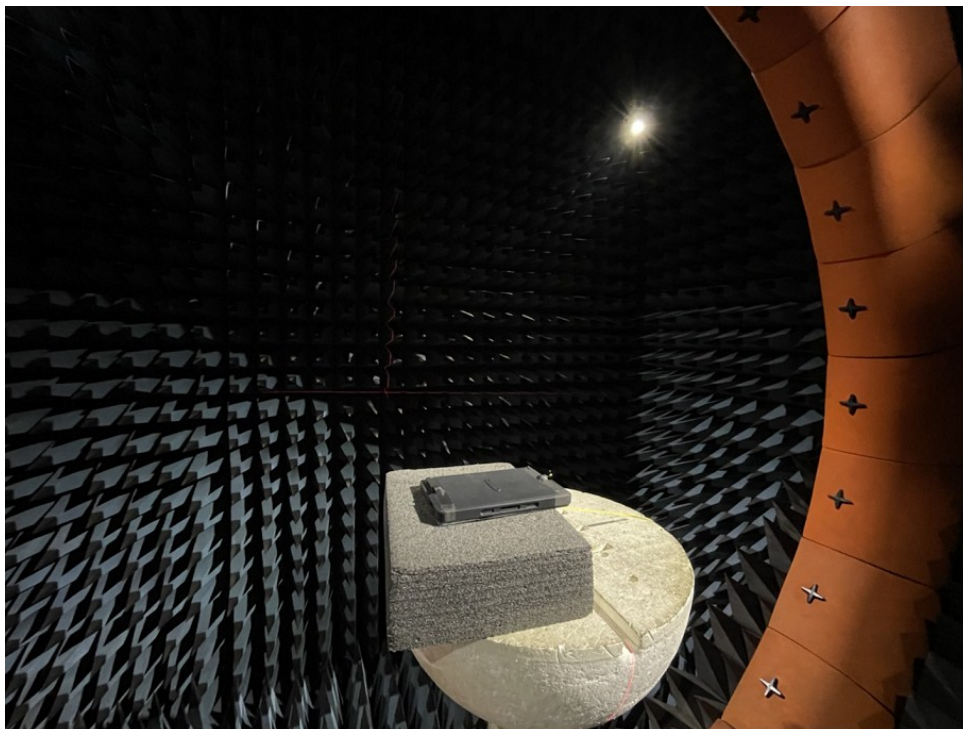
1. Antenna specification/天线标准

Antenna specification/天线技术参数		
Electrical specification/电气特性		
Item/目录	Specification/规格	Comment/备注
Freq. range/频段范围	2400-2500/5150-5850 (MHz)	
Impedance/阻抗	50 (Ω)	
VSWR/驻波比	≤ 2.3	
Directional/辐射方向	Omni directional	
Polarization/极化形式	Linear Polarization	
Peak gain/峰值增益	1.29(dBi)/3.96(dBi)	
Test condition/测试条件	passive test (无源测试)	
Total efficiency/无源效率	> 37%	
Mechanical Specification/机械指标		
Antenna type/天线类型	FPC+CABLE	
Connector type/连接器类型	USS RF IV (501)	
RF cable type/射频线型号	0.81 黑色线	
Connector torque test/连接器扭力	N/A	
Connector pull test/连接器拉力	N/A	
Salt spray/盐雾测试	24 (H)	
Environmental specification /环境指标		
Operating temp/工作温度	-40°C ~ +80°C	
Storage temp/存储温度	-40°C ~ +80°C	

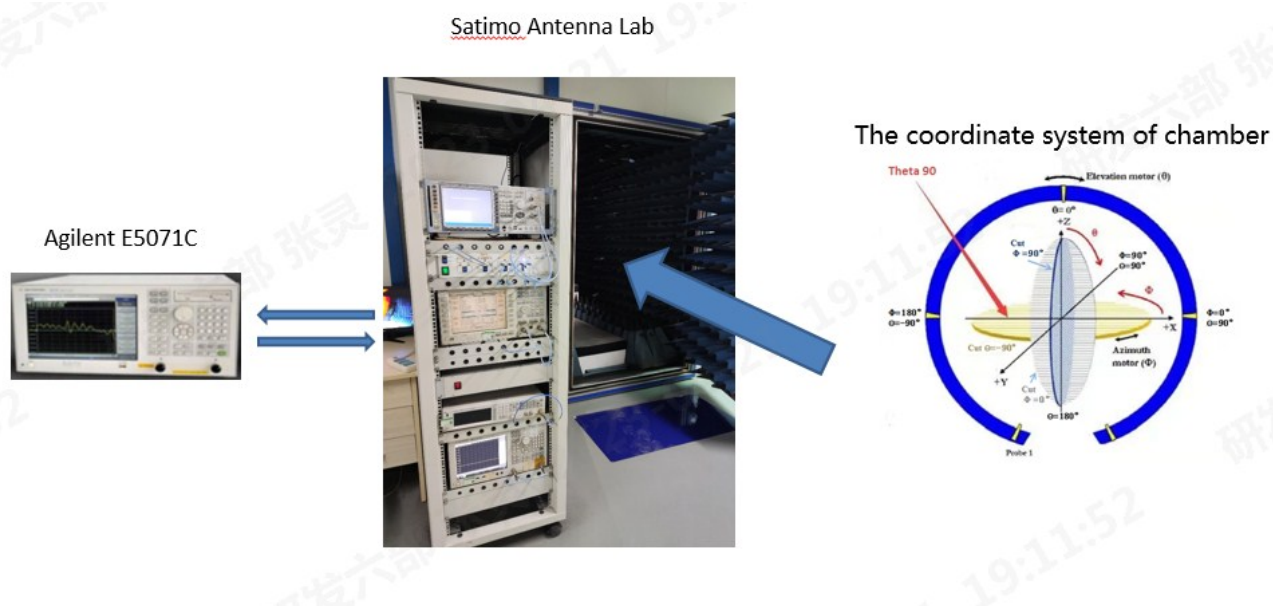
2. Antenna picture/天线图片



3. 测试放置位置



4. 测试配置图





5. 测试步骤程序

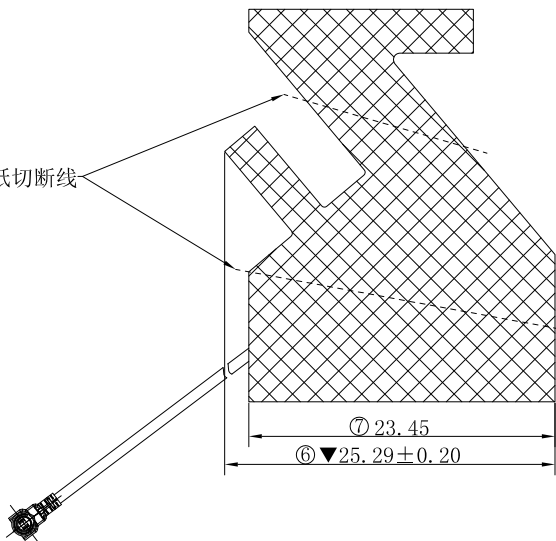
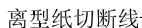
Name	Parameter	Method	Standard no.
Mobile communicate on antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSVIEEE Std 149-1979

6. 设备清单

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	ECT-Y6-E479	2022.07.11	2023.7.10
Antenna	ECT	81800V141			
Chamber	Satimo	XXXXXX	XXXXXX	2022.07.11	2023.7.10

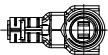
REV.	ECN NUMBER	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
X1	ECN22*	初版发行	08/29' 22	梁兑泉	丁第斌	牛宝星
X2	ECN22*	线缆加长	12/09' 22	梁兑泉	丁第斌	牛宝星

反面



1. 焊接不能虚焊、假焊，焊点须饱满，屏蔽层不能有烫伤。
2. 允许最大毛边0.05MAX。
3. 测试要求：全检VSWR测试，矩阵测试。
测试频率：2400-2500/5150-5850 MHz，VSWR≤2.3。
4. 标有“▼”为QC重点检测尺寸。
5. 有害物质须符合ECT
《QE-Q-19-001-环境有害物质管理基准》管控标准；
符合ROHS环保标准。

1. The welding can't virtual welding, welding, solder joints must be full, shielding layer cannot have burns.
2. Allow maximum flash 0.05 MAX.
3. The test requirements: pattern all inspection VSWR test, test matrix.
Test frequency:2400-2500/5150-5850 MHz, VSWR≤2.3.
4. Marked with "▼" key size detection for QC.
5. HSF shall conform to the standard QE-Q-19-001
Environmental Hazardous Substances Management;
Comply with the ROHS environmental protection standard.



背胶区域

c	Tin		环保锡丝, OD0.80mm
b	CABLE(Φ0.81)	1	USS RF CABLE G4, SG, 081WT, 158.3, 501
a	FPC	1	TAB10-2_1L-FPC_HF-BK_31.63*23.45
ITEM	PART NAME	Q' TY	MATERIAL / FINISH


$$\begin{array}{r} .XXX \pm 0.05 \\ \hline .XX \pm 0.10 \\ \hline .X \pm 0.20 \end{array}$$

SIZE: A4 

APPROVE:

DATE:

PARTS NO. (INTENDED USE) :

81800V141

ANT_IN_2.4-5G_TAB10-WIFI-02

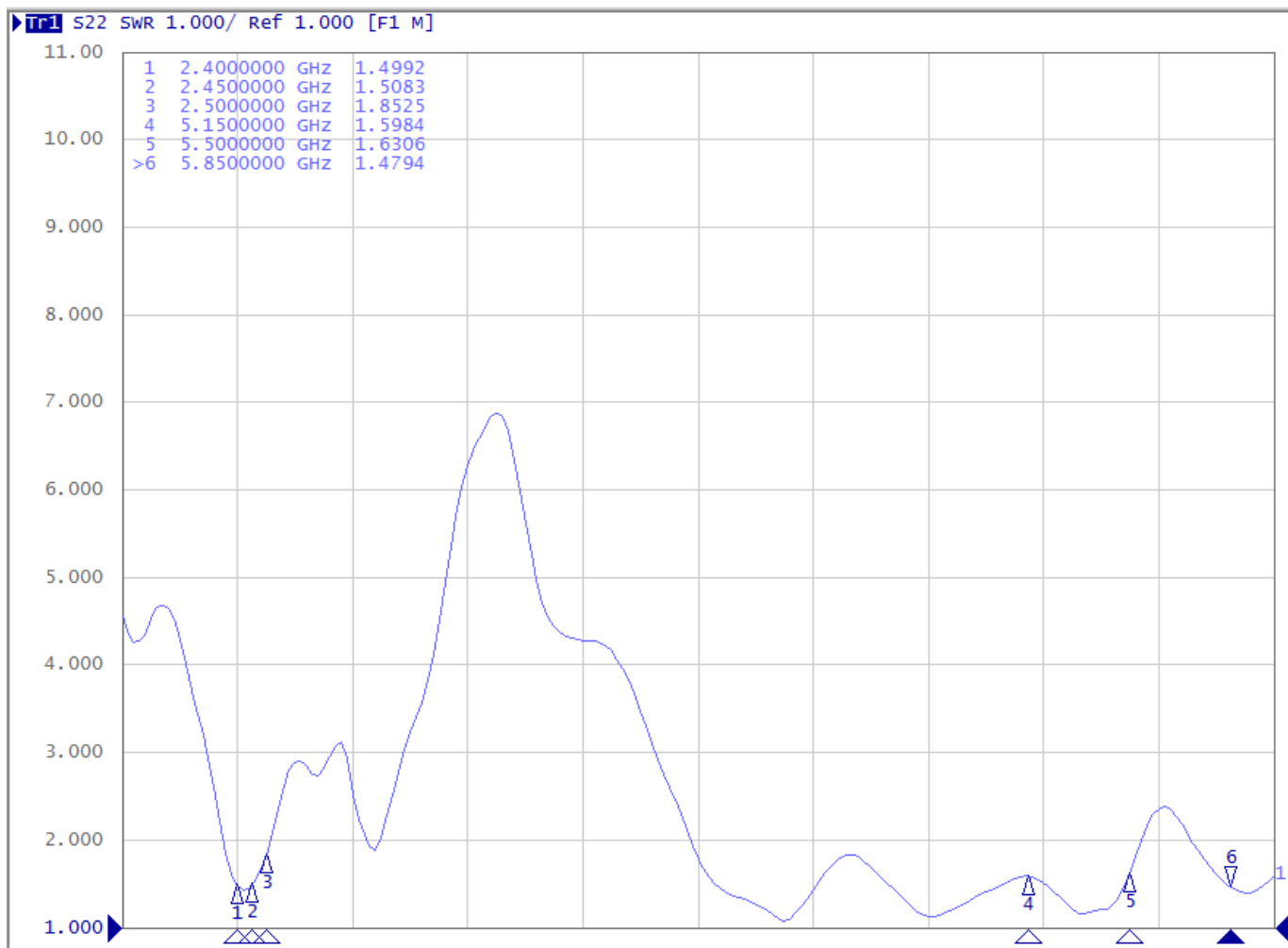
X2

SHEET:

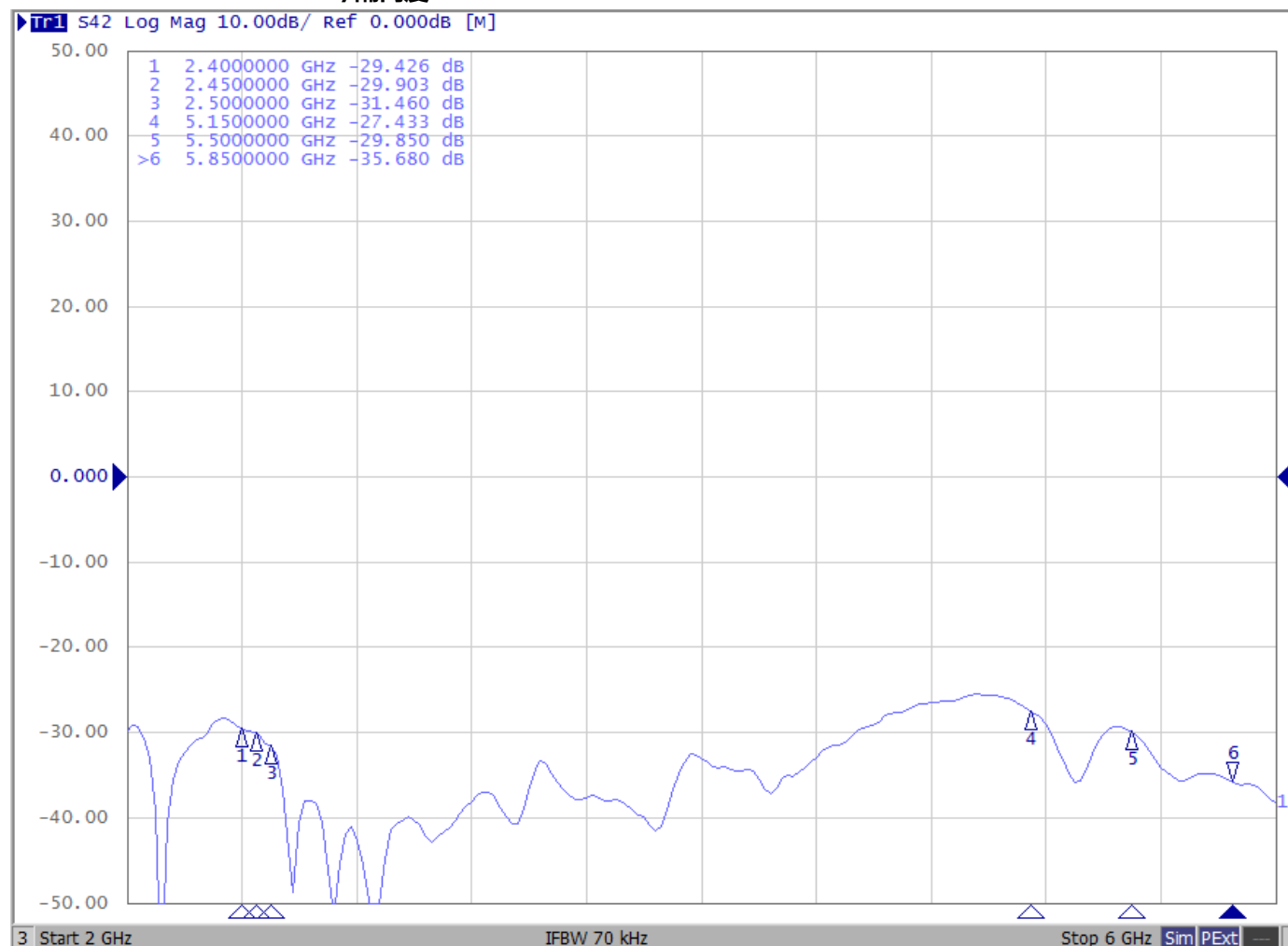
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8. Antenna test result/测试结果

8.1 VSWR/驻波比



8.2 Results – insulation/隔离度



8.3 The total efficiency test/效率测试

Frequency	EFF(%)	Frequency	EFF(%)
2400MHz	37%	5150MHz	52%
2410MHz	38%	5200MHz	50%
2420MHz	37%	5250MHz	53%
2430MHz	38%	5300MHz	53%
2440MHz	39%	5350MHz	52%
2450MHz	40%	5400MHz	50%
2460MHz	38%	5450MHz	52%
2470MHz	38%	5500MHz	52%
2480MHz	37%	5550MHz	49%
2490MHz	37%	5600MHz	48%
2500MHz	37%	5650MHz	48%
AVG.	38%	5700MHz	49%
		5750MHz	48%
		5800MHz	49%
		5850MHz	50%
		AVG.	50%