

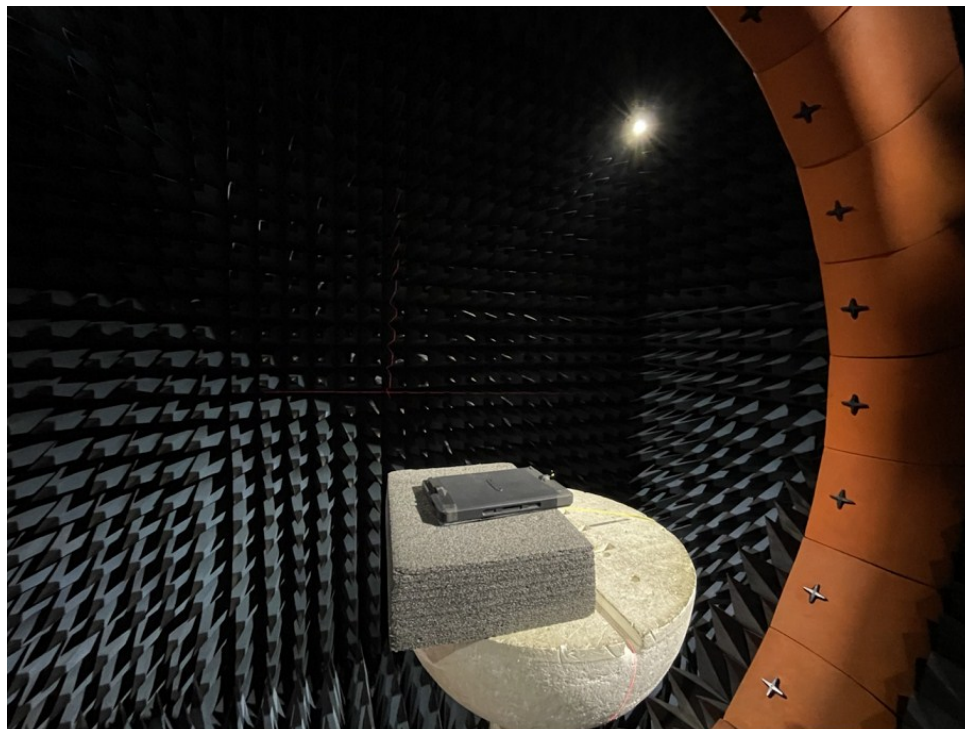
1. Antenna specification/天线标准

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

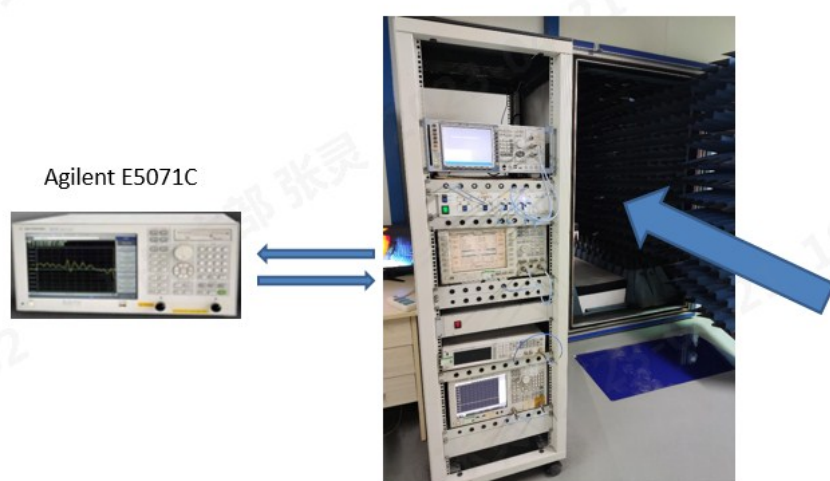


3. 测试放置位置

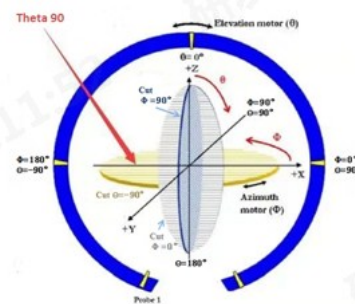


4. 测试配置图

Satimo Antenna Lab



The coordinate system of chamber



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

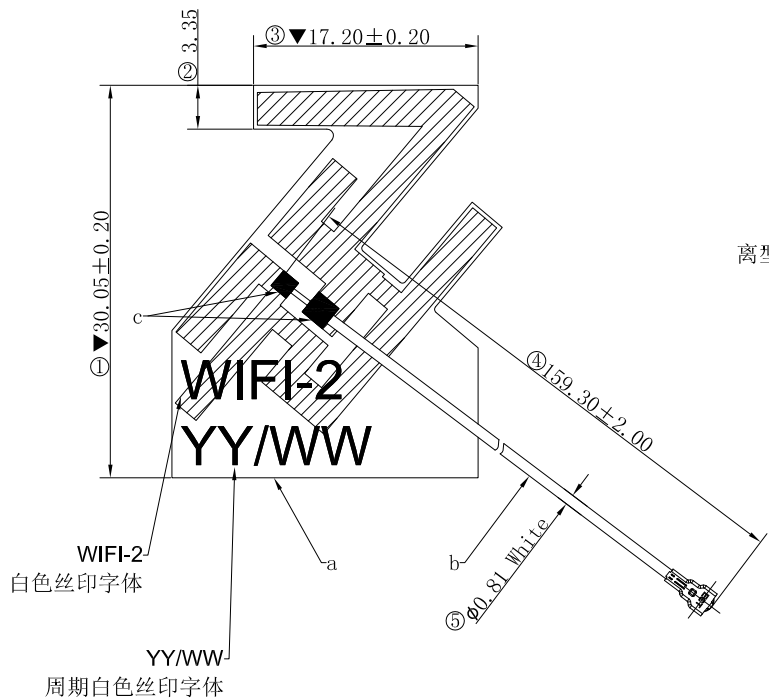
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	ECT-Y6-E479	2022.07.11	2023.7.10
Antenna	ECT	81800V141			
Chamber	Satimo	XXXXX	XXXXX	2022.07.11	2023.7.10

ROHS

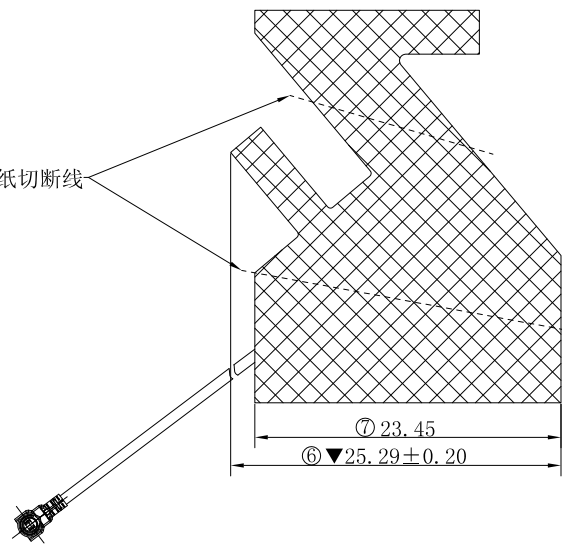
REV.	ECN NUMBER	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
X1	ECN22*	初版发行	08/29' 22	梁兑泉	丁第斌	牛宝星
X2	ECN22*	线缆加长	12/09' 22	梁兑泉	丁第斌	牛宝星

正面

反面



离型纸切断线

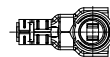


备注:

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。

NOTE:

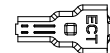
1. The welding can't virtual welding, welding, solder joints must be full, shielding layer cannot have burns.
2. Allow maximum flash 0.05 MAX.
3. The test requirements: pattern all inspection VSWR test, test matrix.
Test frequency: 2400-2500/5150-5850 MHz, VSWR ≤ 2.3.
4. Marked with "▼" key size detection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



端子朝上



线路区域



端子朝下



背胶区域

c	Tin		环保锡丝, OD0.80mm
b	CABLE (∅0.81)	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



GENERAL TOLERANCE

.XXX ± 0.05	
.XX ± 0.10	
.X ± 0.20	

SCALE:

1:1

DRAWN:

梁兑泉

DATE:

12/09' 22

DWG. NO:

600-V141-01

TITLE:

ANT_IN_2.4-5G_TAB10-WIFI-02

REV.

X2

UNIT:

mm

CHECK:

APPROVE:

DATE:

DATE:

PARTS NO. (INTENDED USE):

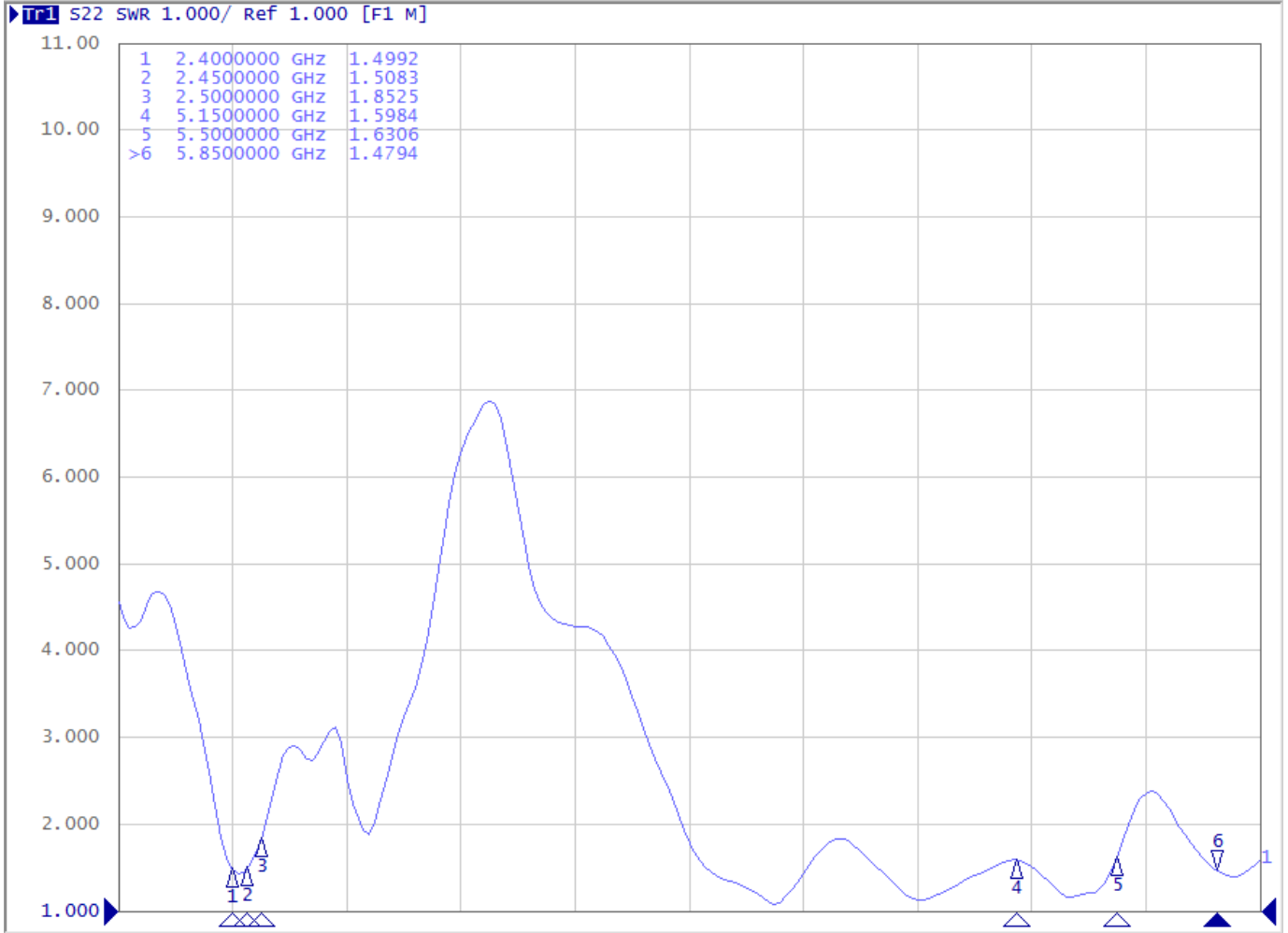
81800V141

SHEET:

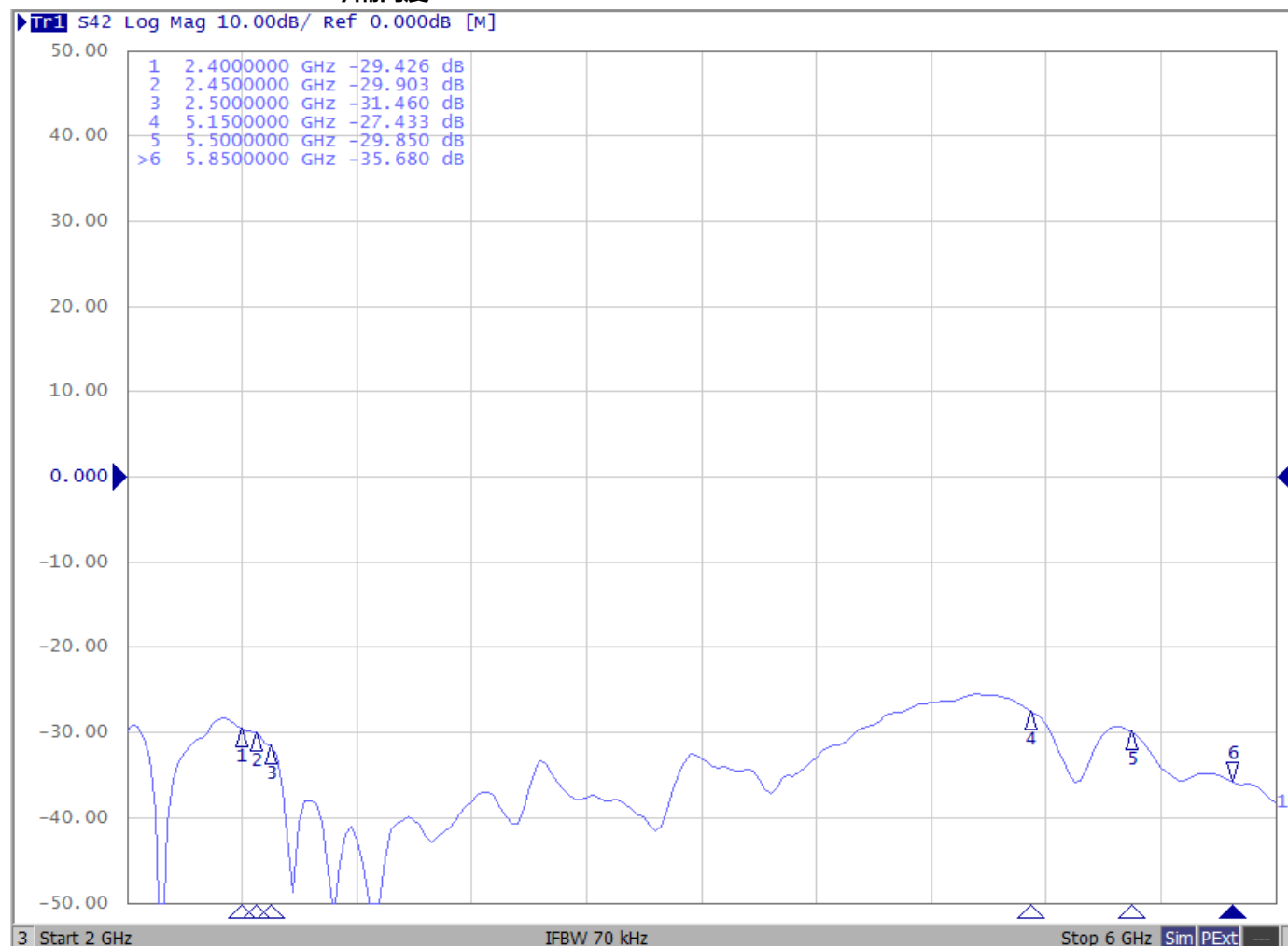
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8. Antenna test result/测试结果

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%