

1 名词解释

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access

2 测试设备

可根据实际情况自行增减 Can be increased or decreased according to the actual situation

矢量网络分析仪 Vector network analyzer

综合测试仪 Comprehensive tester

SATIMO64 位暗室 Satimo64-bit darkroom

3 适用频段 Applicable frequency band

将适用的频段用其他颜色标出。 Mark the applicable frequency bands with other colors.

制式	频段
BLE(2.4G)	2400MHz~2500MHz
5. 8G	5150MHz~5850MHz

4 基本测试项目

4.1 驻波比图 Standing poppy chart

4.2 史密斯阻抗图 Smith impedance diagram

4.3 辐射方向图 Radiation pattern

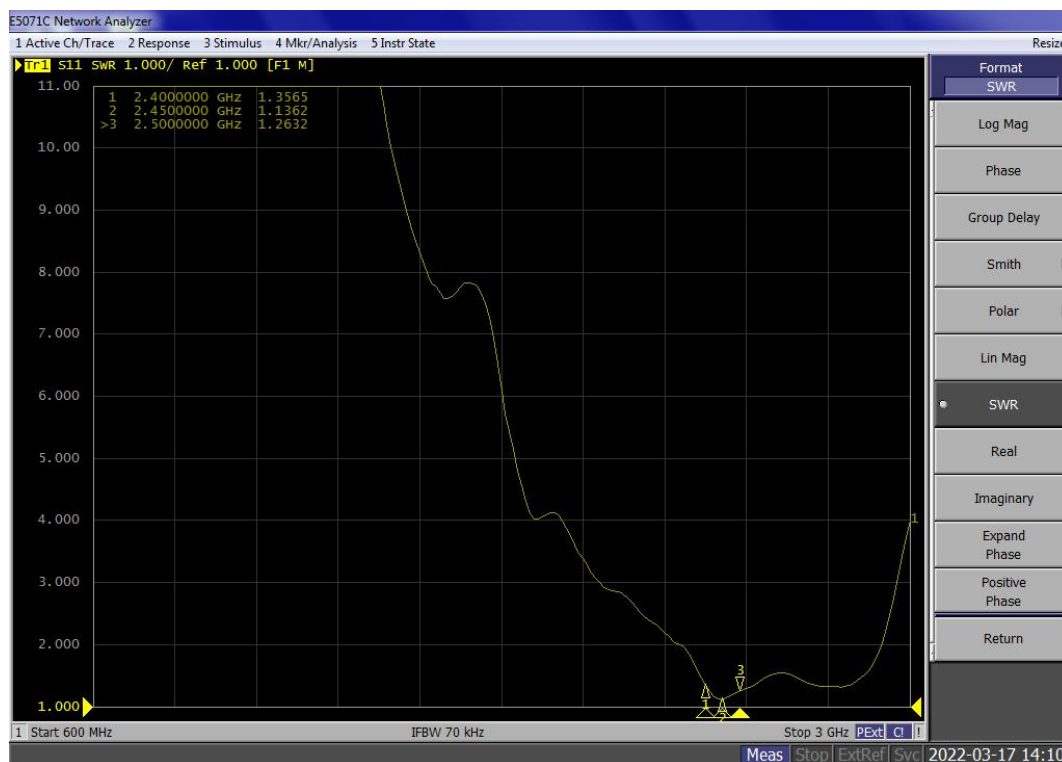
4.4 增益和效率 Gain and efficiency

4.5 TRP&TIS 测试 The TRP&TIS test

5 测试指标和数据图表 Test metrics and data charts

5.1 驻波比 Standing-wave ratio

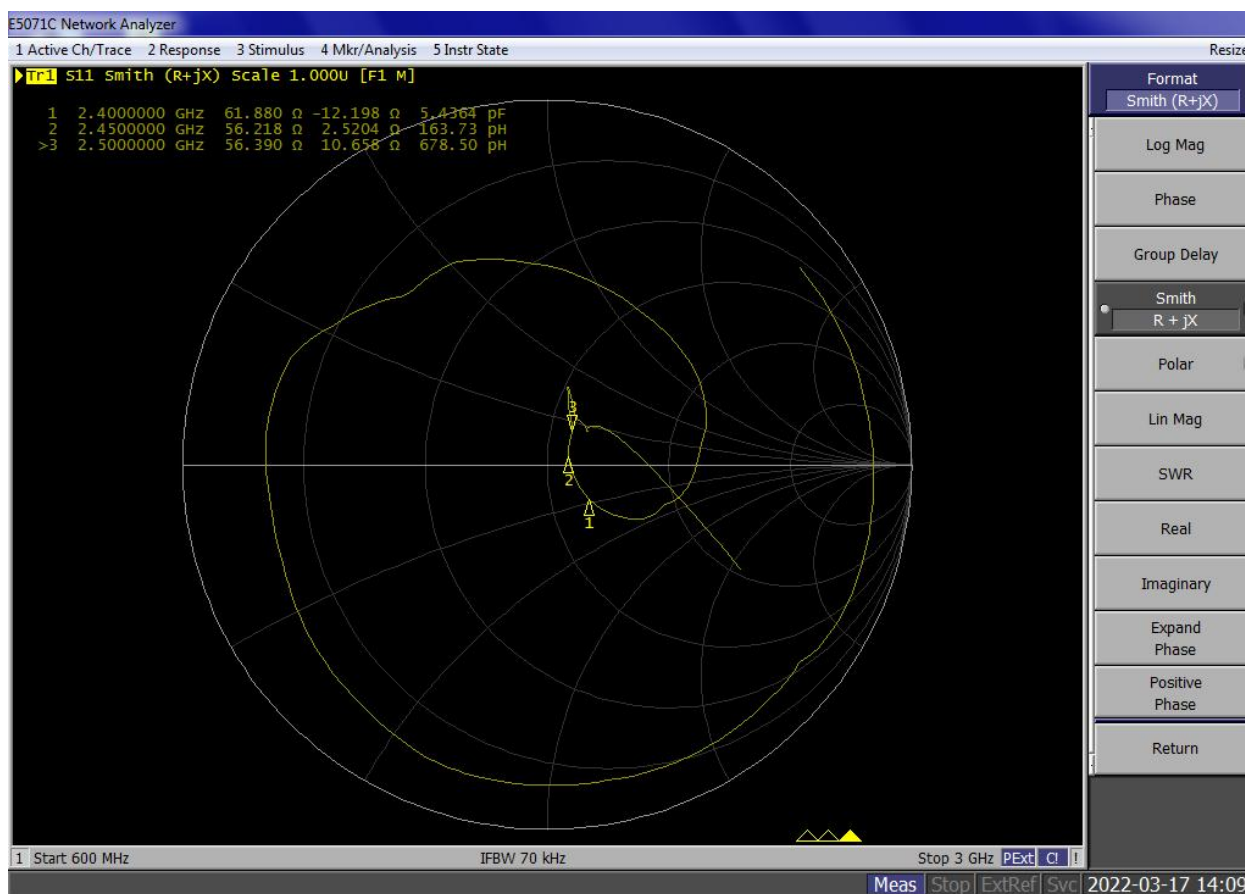
5.1.1 驻波比图 Standing poppy chart



5.1.2 驻波比数据 Standing wave ratio data

Freq/MHz	2400	2450	2500
VSWR	1.35	1.13	1.26

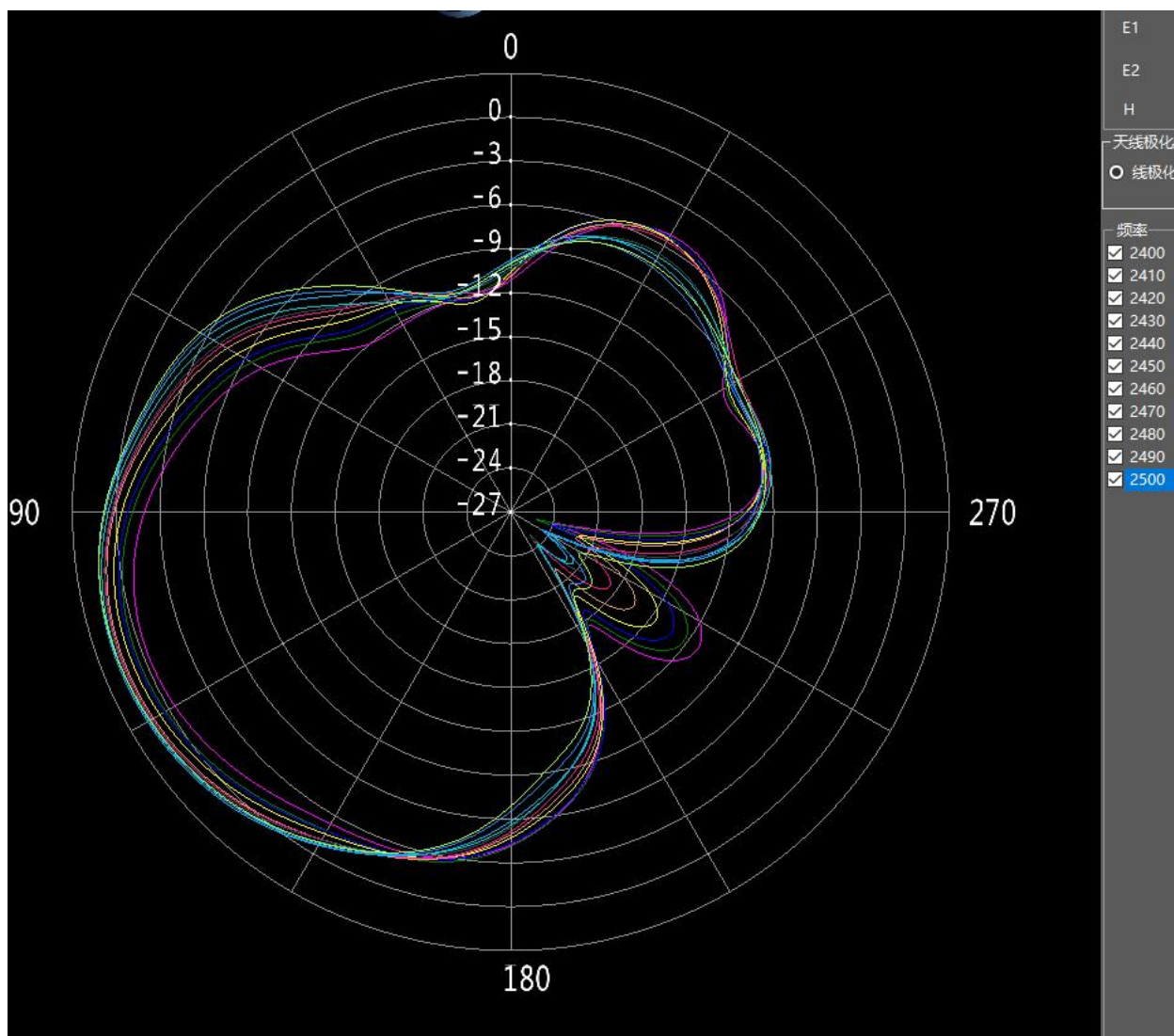
5.2 史密斯阻抗圆图 Smith impedance circle diagram



5.3 辐射方向图 Radiation pattern

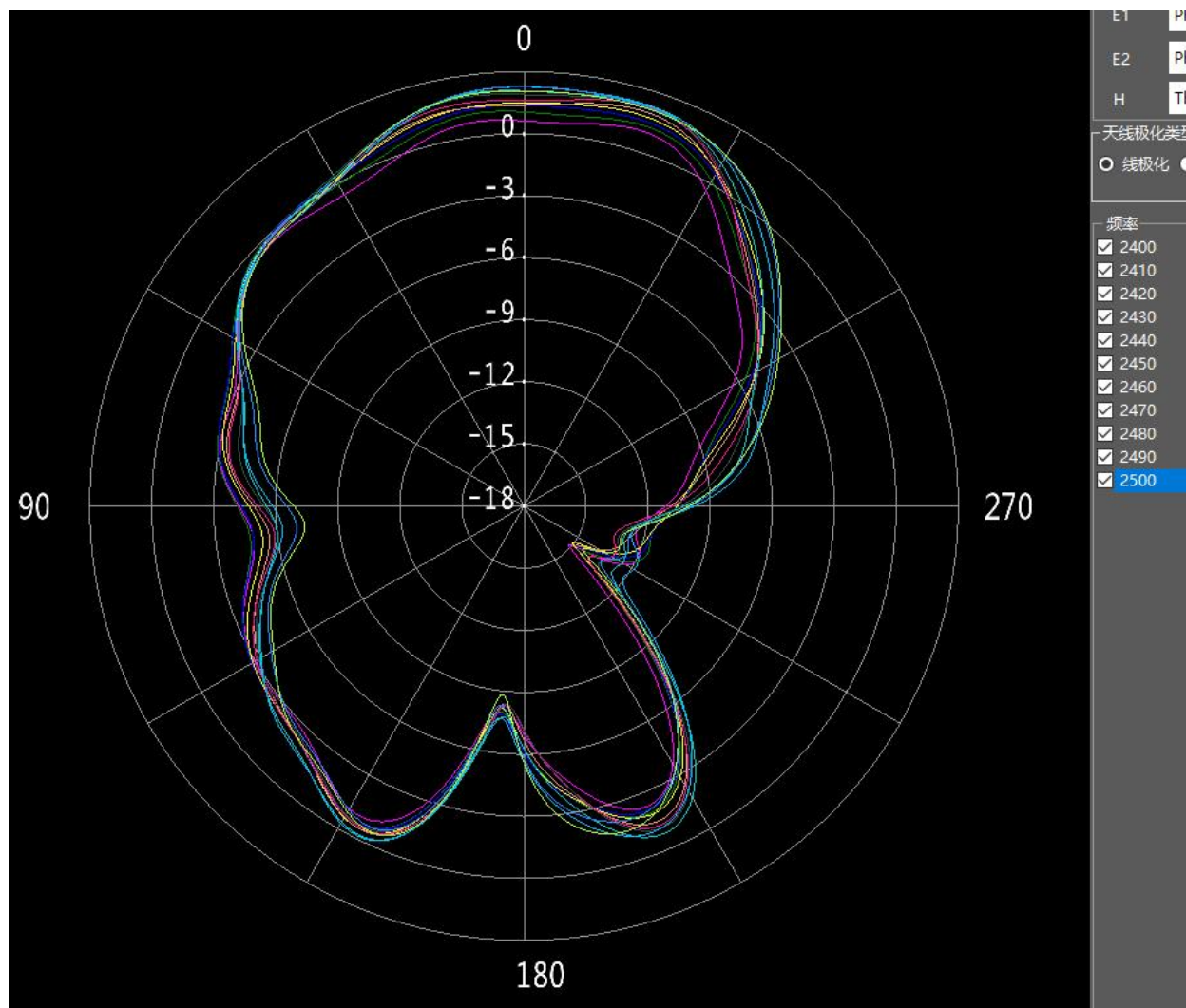
5.3.1 H-plane

H

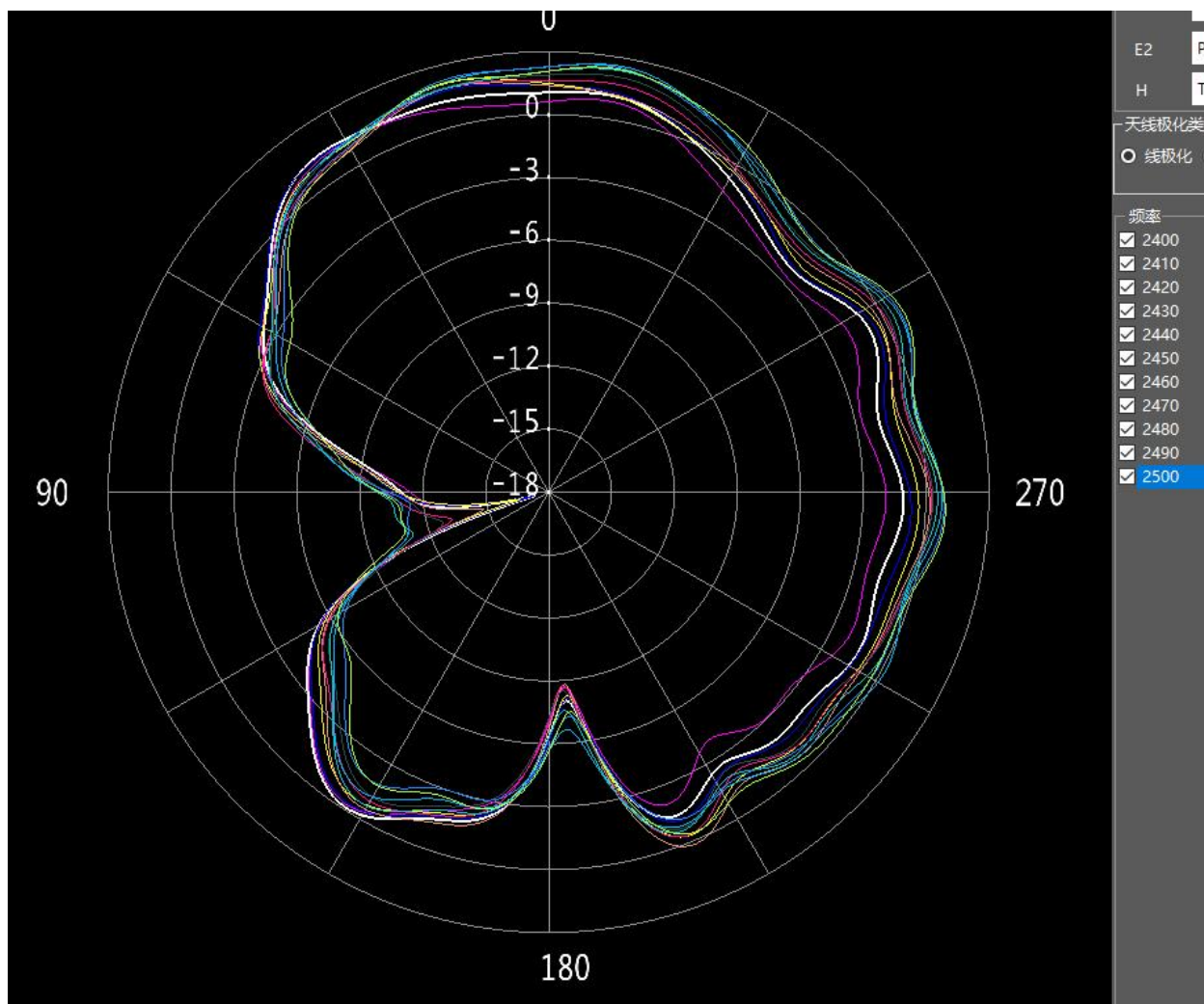


5.3.2 E-plane

E1



E2



5.4 增益和效率 Gain and efficiency

频率 (MHz)	增益 (dBi)	效率 (%)
2400	1.91	49.23
2410	2.04	53.05
2420	2.04	55.06
2430	2.1	57.24
2440	2.13	58.42
2450	2.19	59.66
2460	2.29	60.9
2470	2.4	61.49
2480	2.45	62.08
2490	2.52	62.77
2500	2.44	62.74

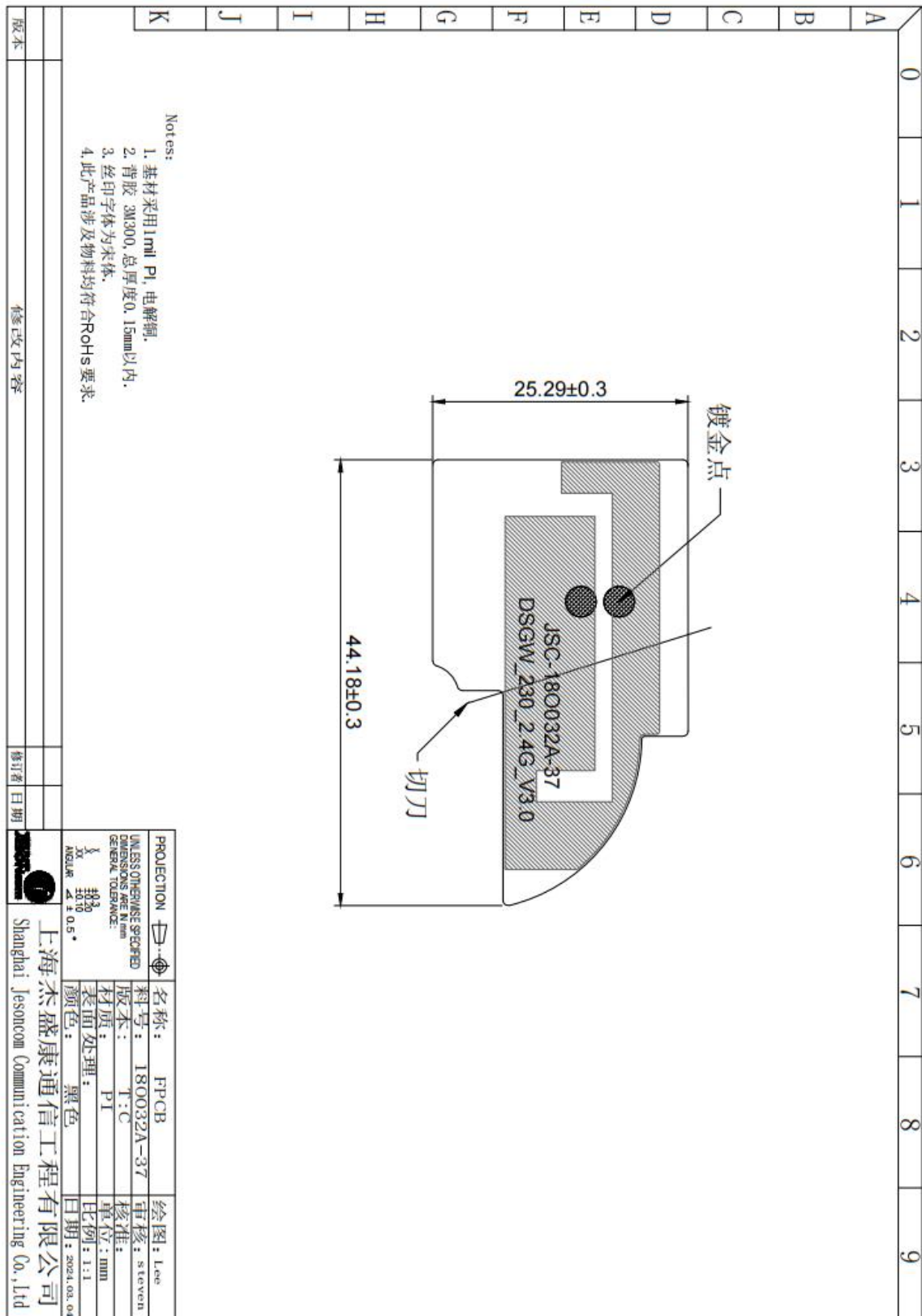
6 环境处理建议 Environmental treatment suggestion

环境不需要做处理 The environment doesn't need to be treated

7 阻抗匹配要求 Impedance matching requirement

匹配电路没有修改 The matching circuit is not modified

8 天线外形图



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9 天线安装指导 Antenna installation guide

9.1 天线安装位置说明 Antenna installation position description

10 其他 other