



承 认 书

APPROVAL SHEET

客户名称 Customer Name RSR

产品型号 Product Model PB Encore 2

客户料号 Customer P/N

规格描述 Specifications BT-1 ANT

南斗星料号 Southstar P/N 3. N204. 0424

制作日期 Production date 2024. 11. 11

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南斗星 (Southstar)		
编制 (FICTION)	品质 (DQE)	研发 (R&D)
客户 (Customer)		
采 购 (PUR)	品质 (QC)	研发 (R&D)

制造厂商：南斗星科技香港有限公司 (Manufacturer: South Star Technology Hong Kong Co., Ltd)

办公地址：深圳市宝安区福海街道新和社区宝安大道 6099 号星港同创汇天枢座 803 (Office Address: Room 803, Xinggang Tongchuang Hui Tian Shu Building, No. 6099 Bao'an Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen)

制造地址：广东省东莞市虎门镇赤岗南坊一路 3 号 (Manufacturing address: No. 3, Chigang Nanfang 1st Road, Humen Town, Dongguan City, Guangdong Province)

电话 (Telephone)：0755-27474071 0769-88086190

承认书变更履历

Confirmation of Change of Resume

版本 version	日期 date	变更描述 Change description	备注 notes
1.0	2024. 9. 5	初版 First edition	
2.0	2024. 10. 15	更改射频线颜色 Change the color of the RF cable	
3.0	2024. 10. 24	优化天线 Optimize antenna	
4.0	2024. 11. 11	更改天线版本号 Change antenna version number	



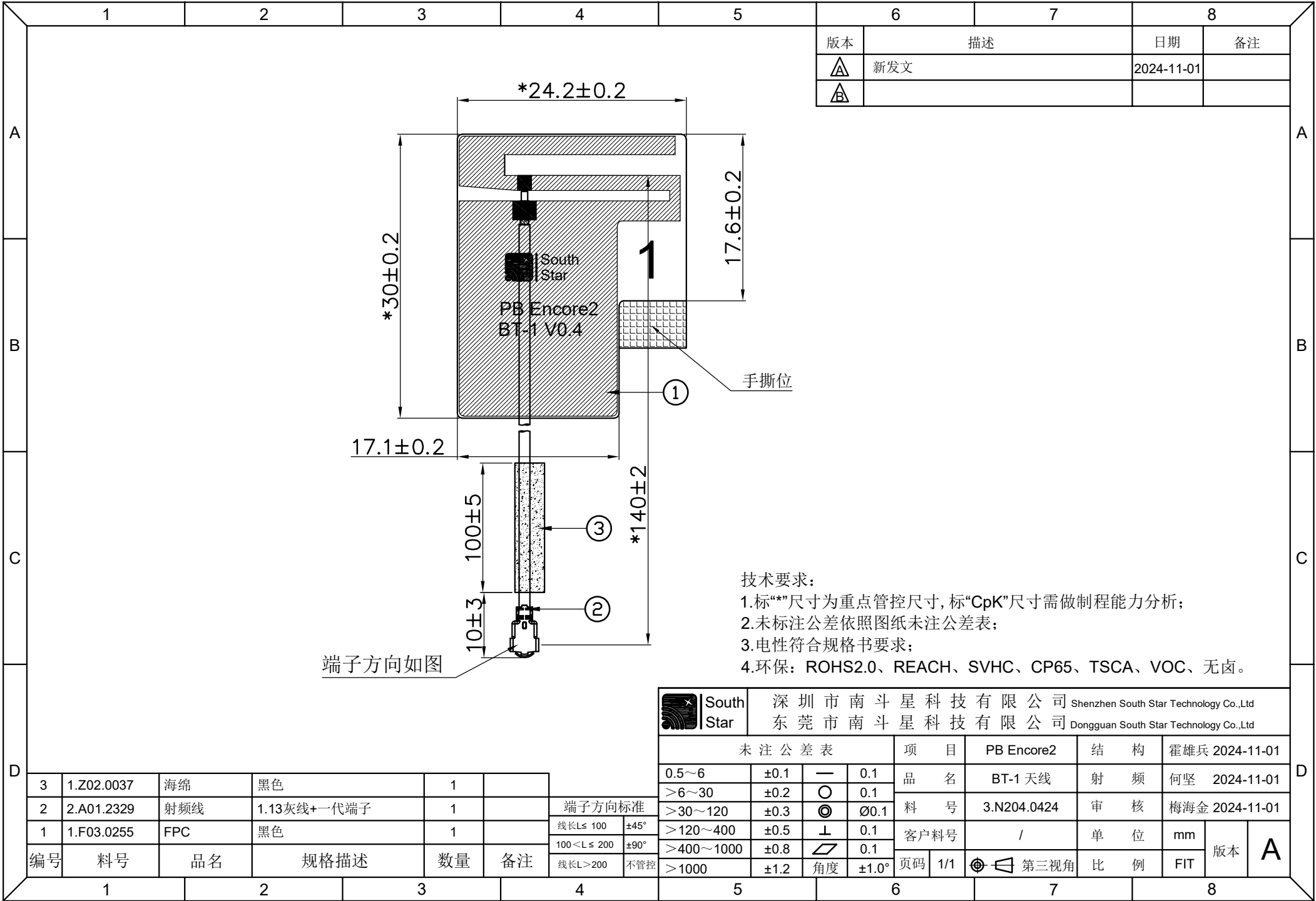
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基本参数 (The basic parameters)

A. 电性能Electrical Characteristics	
Frequency 频率	2400MHz~2500MHz
VSWR 电压驻波比	< 2
Efficiency 效率	>50%
Impedance 阻抗	50 Ohm
Polarization 极化	Linear
Peak Gain 最大增益	2.26dBi
Antenna type 天线类型	PIFA
B. 材料&物理性能Material & Mechanical Characteristics	
射频材料 Material of Radiator	FPC Black
射频线类型 Cable Type	1.13mm Grey
接头类型 Connector Type	1 代
C. 环境 Environmental	
工作温度 Operation Temperature	- 30° C ~ + 65° C
存放温度 Storage Temperature	- 40° C ~ + 70° C



测试设备 (Test Equipment & Conditions)

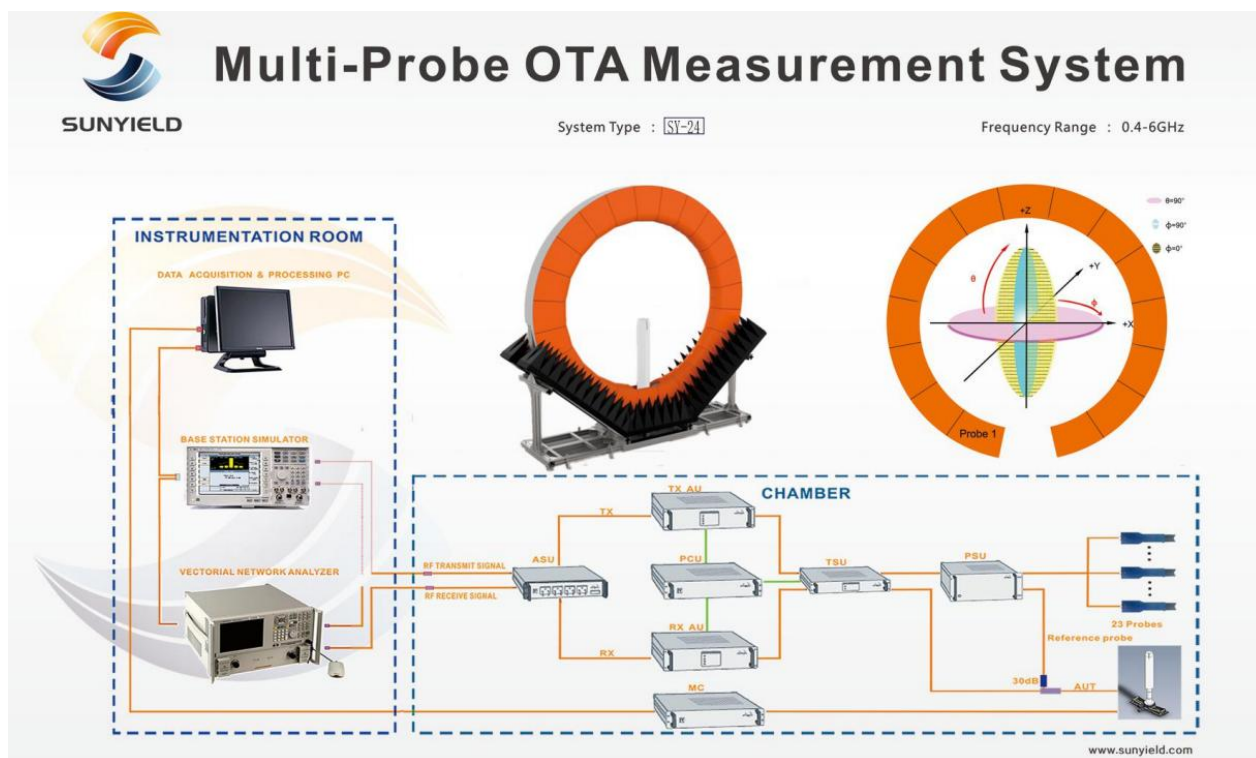
1. 网络分析仪 NetWork Analyzers:

Keysight E5071C

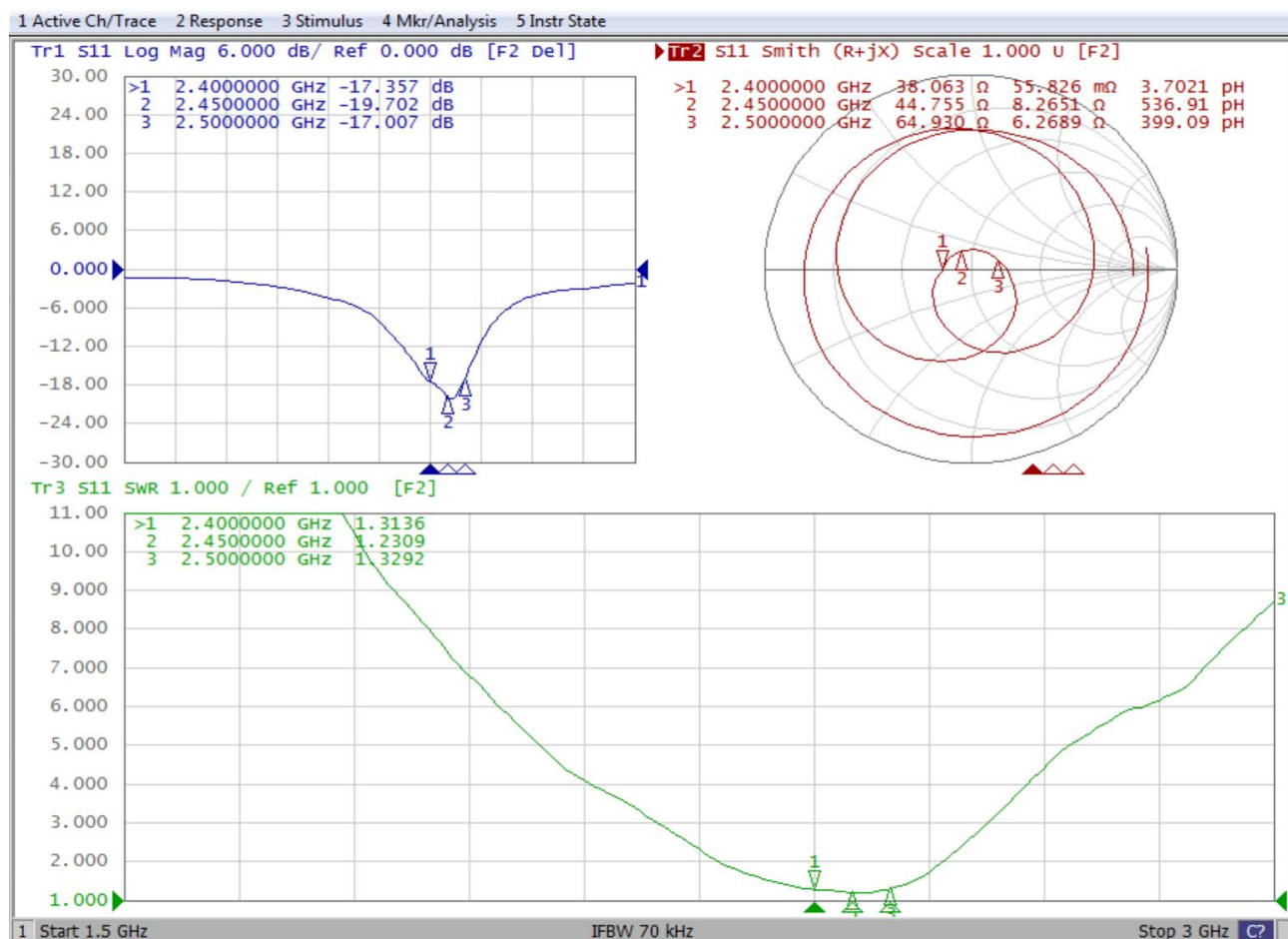
2. 综合测试仪 Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D 暗室测试系统 3D Chamber Test System:



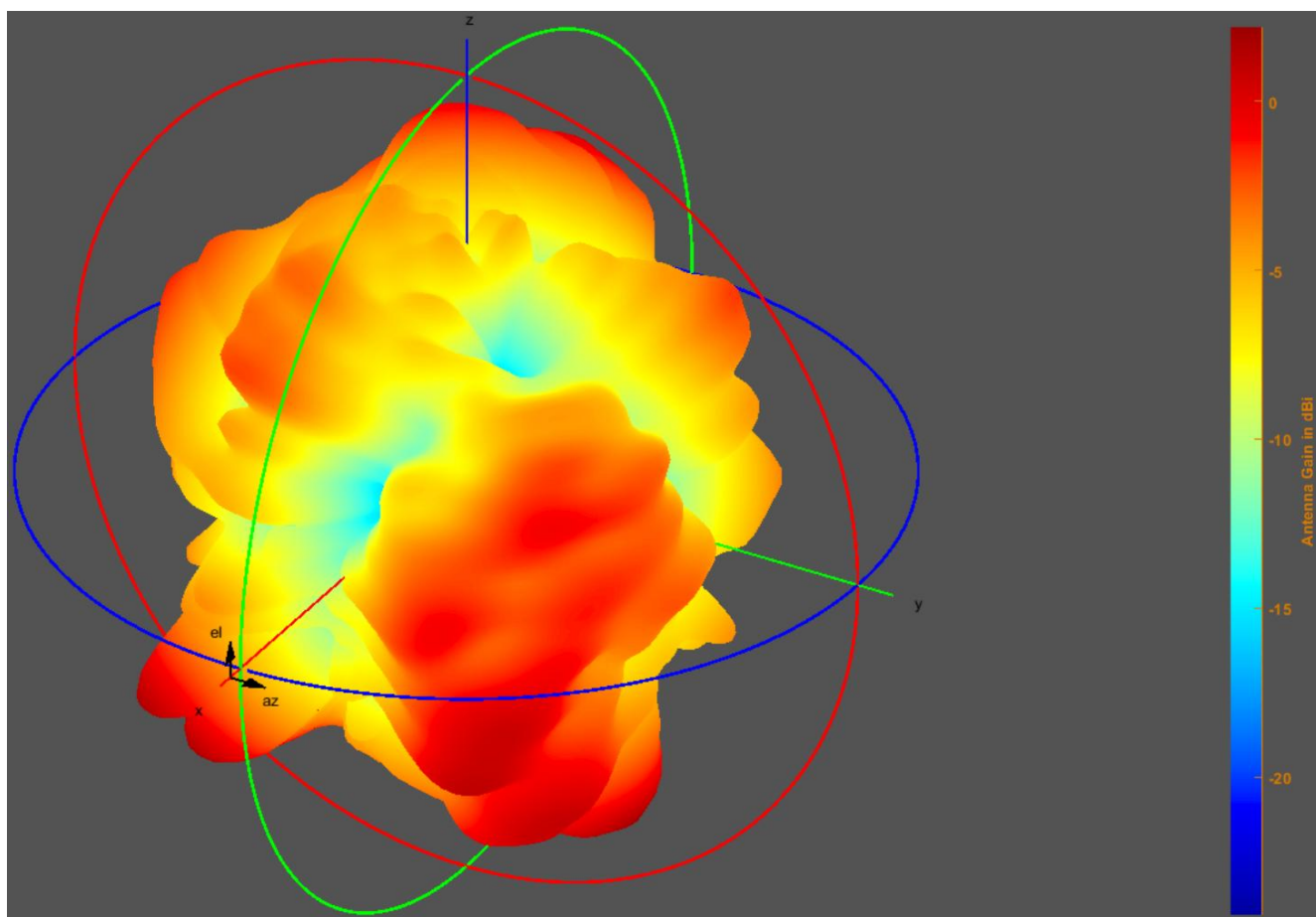
天线阻抗Antenna Impedance: S11



效率&增益Efficiency & Gain:

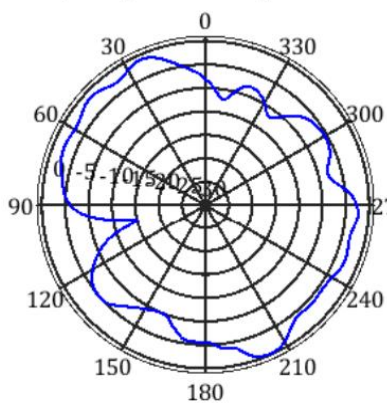
Frequency (MHz)	Gain(dBi)	Efficiency (%)
2400	2.26	54.08
2410	2.21	53.79
2420	2.19	54.12
2430	2.22	53.83
2440	2.18	54.04
2450	2.25	54.75
2460	2.23	53.97
2470	2.21	52.54
2480	2.24	51.85
2490	2.19	51.26
2500	2.16	50.18
avg.	2.21	53.13

天线3D&2D方向图Antenna 3D & 2D pattern:

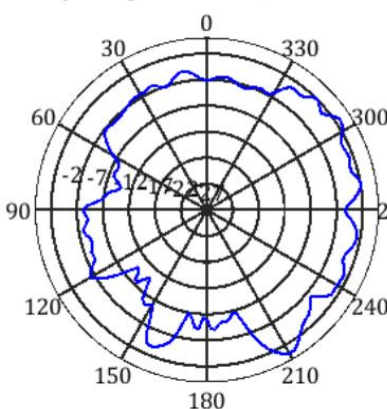


2400MHz_3D

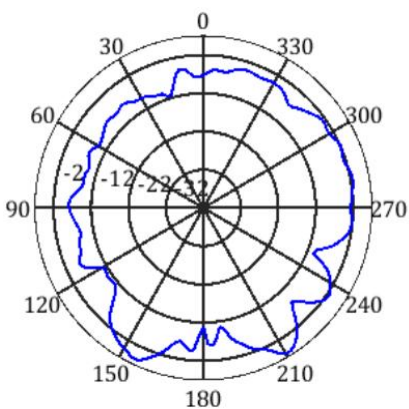
frequency=2400MHz, X-Y Plane



frequency=2400MHz, X-Z Plane



frequency=2400MHz, Y-Z Plane



隔离度Isolation:



频率 (MHz)	S21(dB)
2400	-36
2450	-41
2500	-36

