



承 认 书

APPROVAL SHEET

客户名称 Customer Name RSR

产品型号 Product Model BAR800MK2

客户料号 Customer P/N

规格描述 Specifications WIFI-0 ANT

南斗星料号 Southstar P/N 3. N204. 0432

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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)

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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	2024.10.8	初版 First edition	
2.0	2024.10.11	更改线长 Change line length	255mm 更改为 280mm Change 255mm to 280mm
3.0	2024.11.11	FPC 更改为 PCB 天线 FPC changed to PCB antenna	装配需求 Assembly requirements
4.0	2025.02.13	变更海棉尺寸 Change the size of sponge	客户需求 customer demand



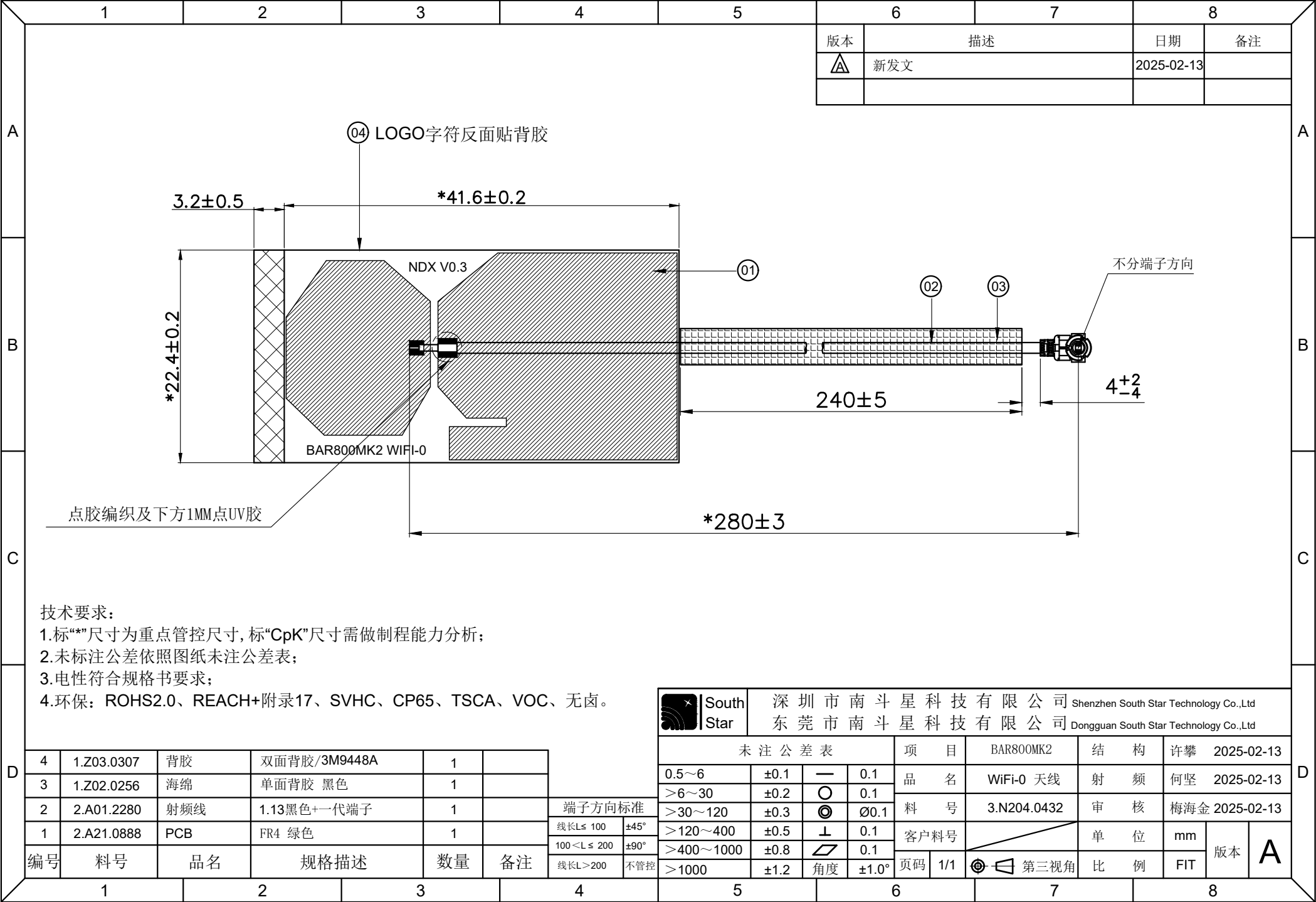
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基本参数 (The basic parameters)

A. 电性能Electrical Characteristics	
Frequency 频率	2400MHz~2500MHz 5150MHz~5850MHz 5925MHz~7125MHz
VSWR 电压驻波比	< 2
AVG. Efficiency 效率	>40%
Impedance 阻抗	50 Ohm
Polarization 极化	Linear
Peak Gain 最大增益	2400MHz~2500MHz 1.95dBi 5150MHz~5850MHz 3.69dBi 5925MHz~7125MHz 3.57dBi
Antenna type 天线类型	Monopole
B. 材料&物理性能Material & Mechanical Characteristics	
射频材料 Material of Radiator	PCB Green
射频线类型 Cable Type	1.13mm Black
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)

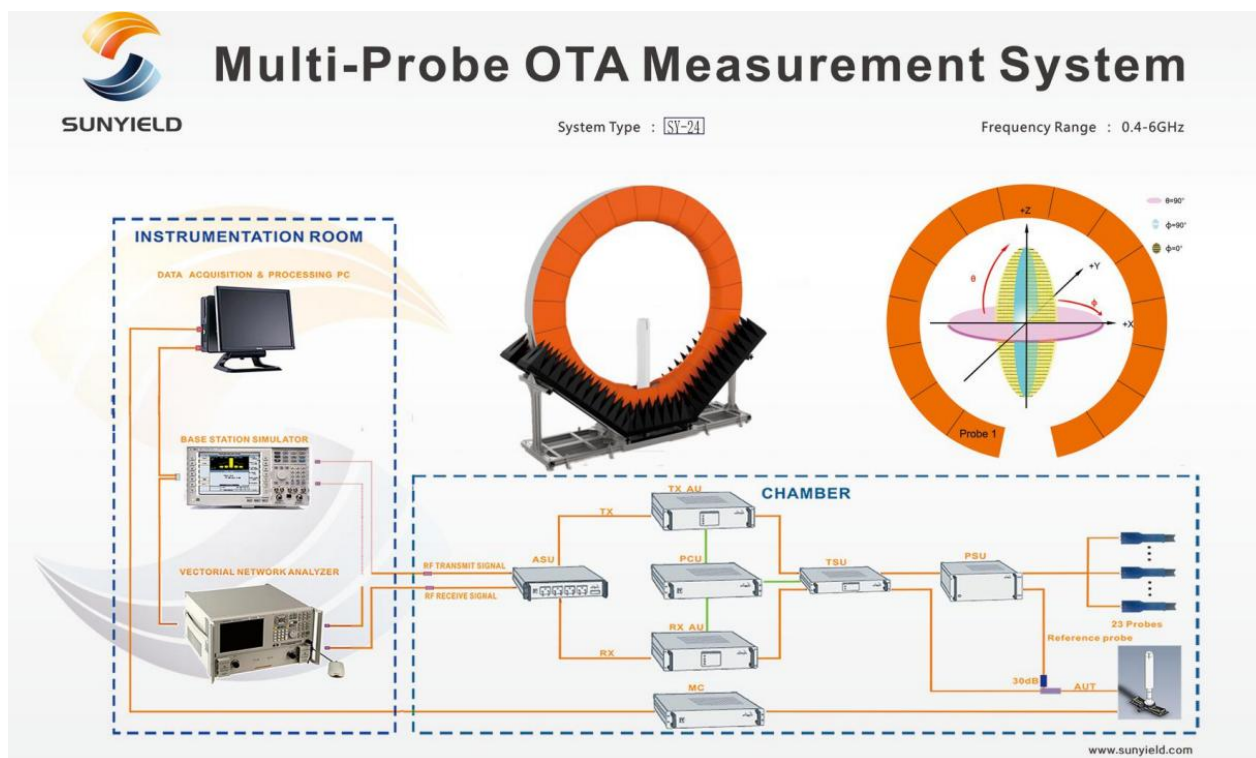
1. 网络分析仪 NetWork Analyzers:

Keysight E5071C

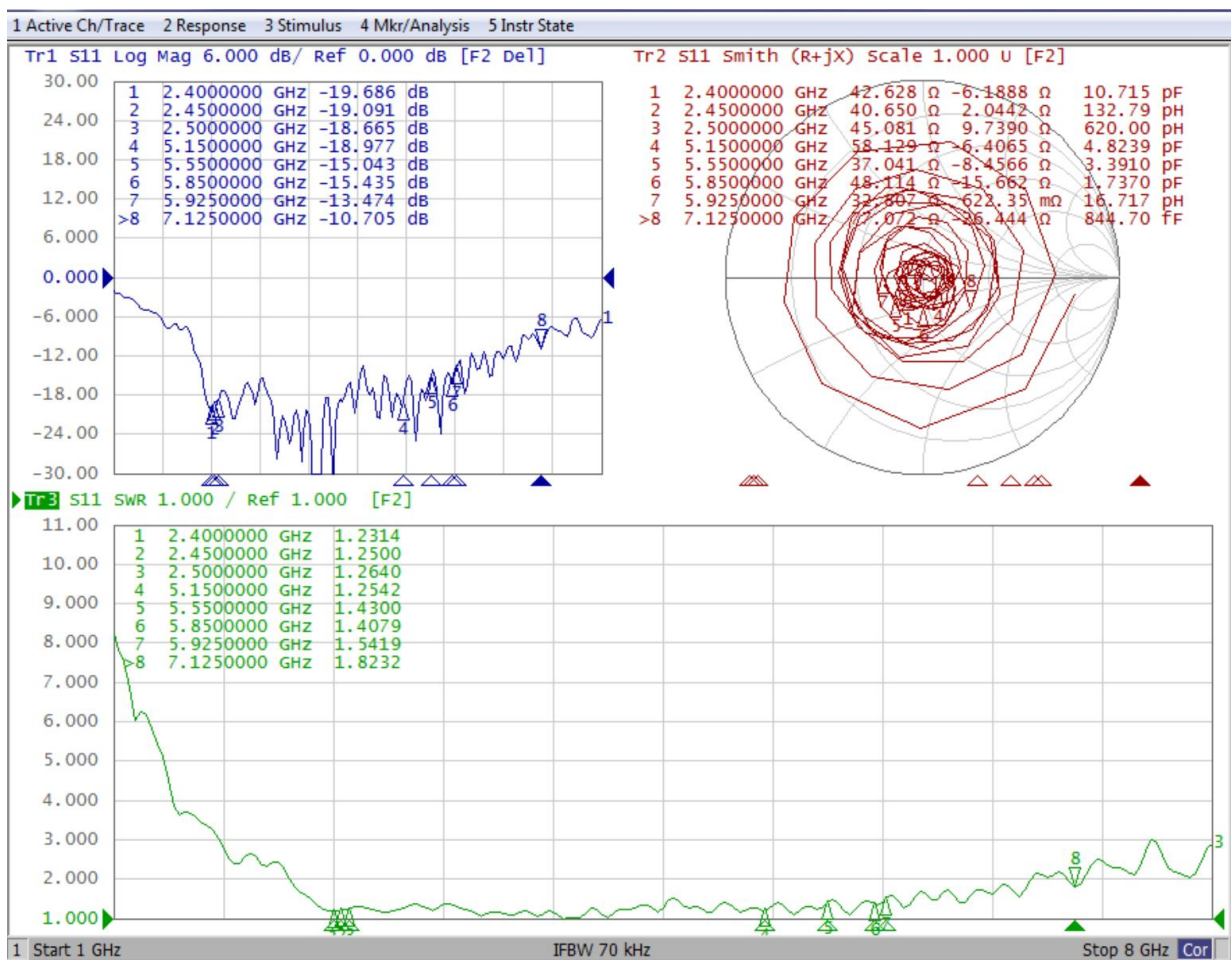
2. 综合测试仪 Comprehensive tester:

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:

Freq (MHz)	Effi (%)	Peak Gain (dBi)
2400	47.01	1.74
2410	48.92	1.72
2420	48.68	1.74
2430	47.31	1.69
2440	47.09	1.65
2450	47.83	1.63
2460	47.01	1.69
2470	46.62	1.95
2480	46.35	1.87
2490	46.65	1.85
2500	45.76	1.82

avg. 47.20

Freq (MHz)	Effi (%)	Peak Gain (dBi)
5150	46.09	3.69
5200	46.79	3.32
5250	45.41	3.68
5300	44.16	3.61
5350	43.86	3.45
5400	43.32	3.18
5450	44.44	3.09
5500	46.16	2.86
5550	44.47	3.08
5600	45.68	2.46
5650	46.34	2.57
5700	47.27	2.78
5750	47.54	3.13
5800	46.37	3.09
5850	46.25	3.06

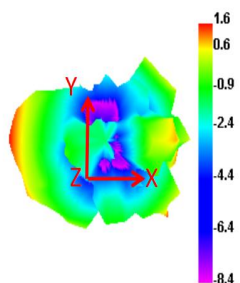
avg. 45.61

Freq (MHz)	Effi (%)	Peak Gain (dBi)
5900	45.16	2.58
6000	44.39	2.95
6100	45.15	3.06
6200	44.99	3.18
6300	43.85	2.85
6400	43.47	2.59
6500	44.33	2.48
6600	45.17	2.67
6700	45.78	2.73
6800	44.68	2.82
6900	43.89	3.15
7000	42.77	3.57
7100	43.34	3.41
7200	42.43	2.69

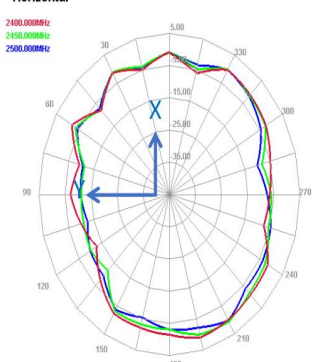
avg. 44.24

天线3D&2D方向图Antenna 3D & 2D pattern:

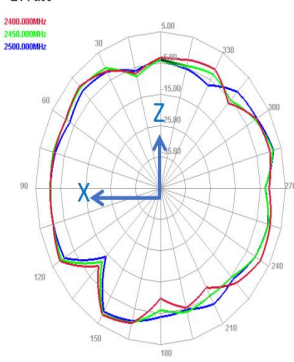
2450.000MHz



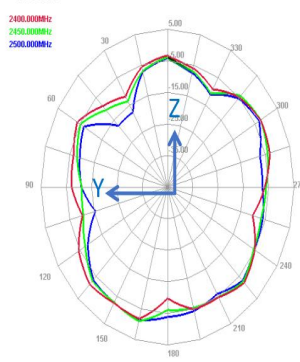
Horizontal



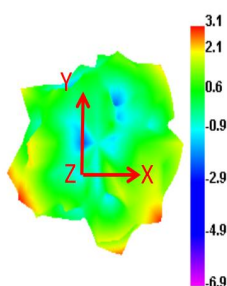
E1 Face



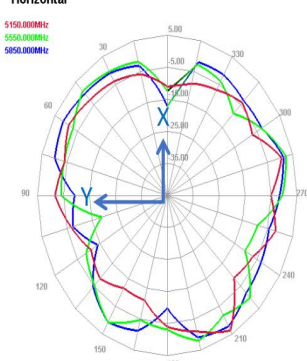
E2 Face



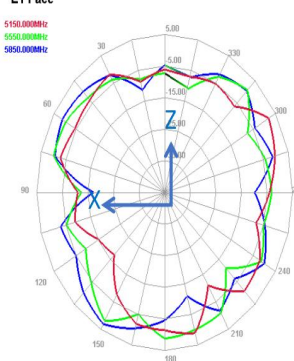
5550.000MHz



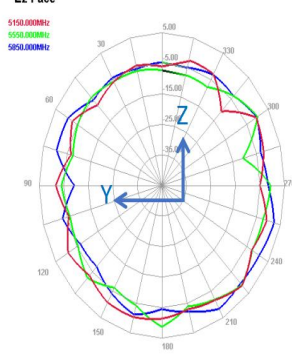
Horizontal



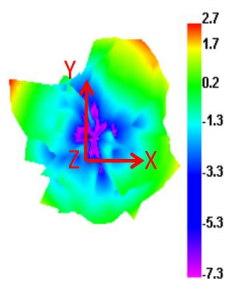
E1 Face



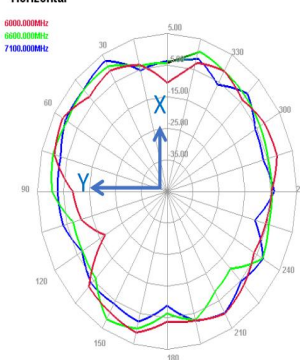
E2 Face



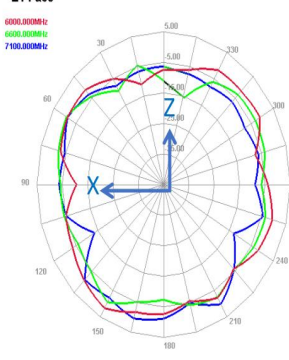
6600.000MHz



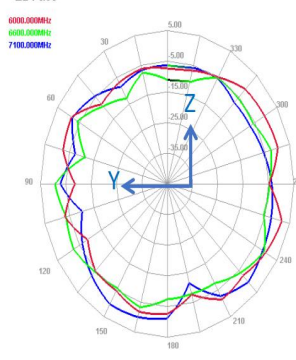
Horizontal



E1 Face



E2 Face

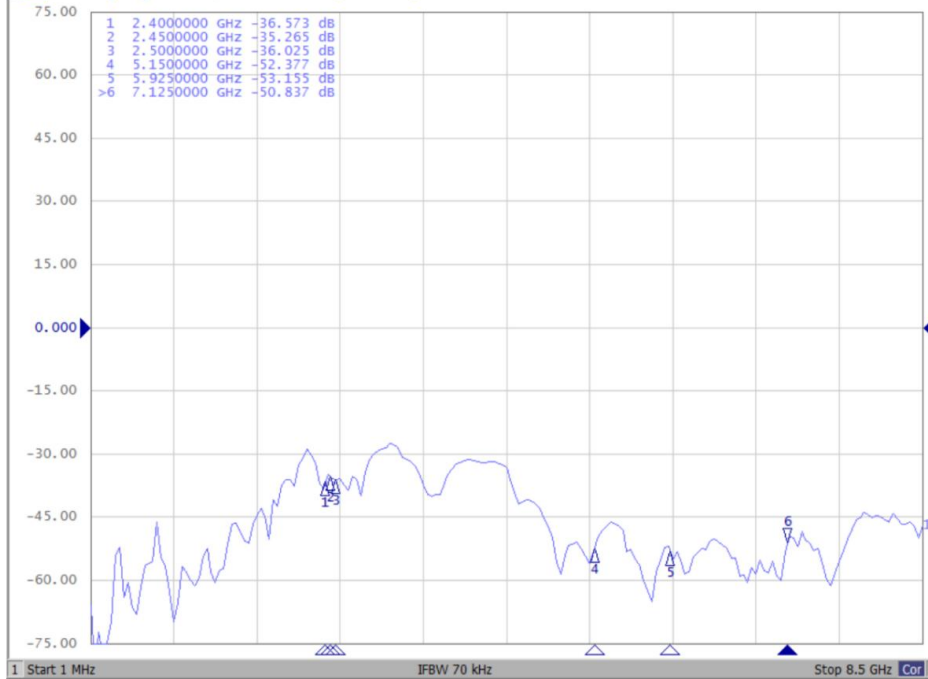


隔离度 Isolation:

L-RX模组天线与WIFI-0 天线隔离度:

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

▶ Tr1 S21 Log Mag 15.00dB/ Ref 0.000dB [F2 M De1]

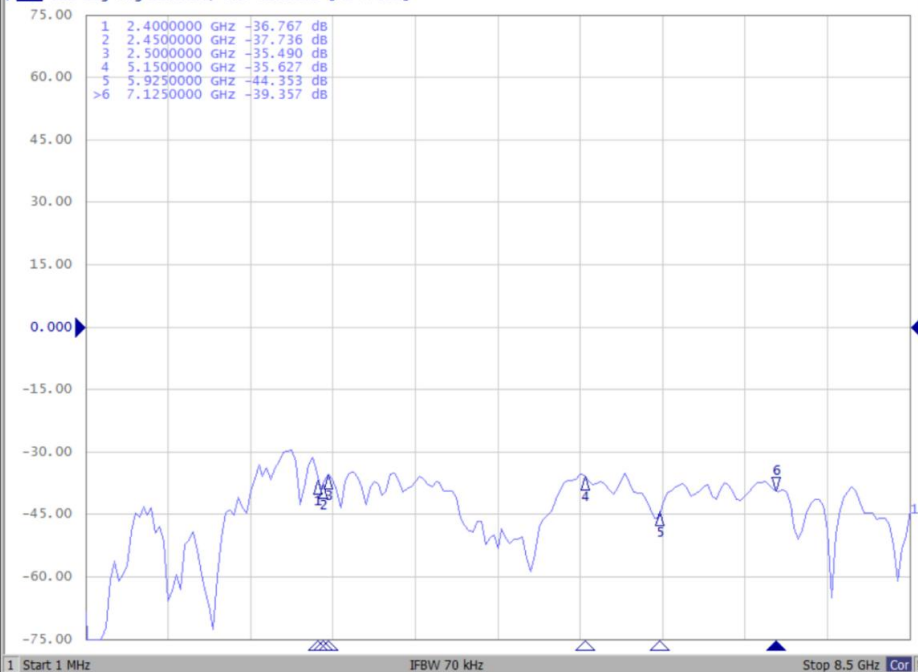


频率 (MHz)	S21(dB)
2400	-36
2450	-35
2500	-36

WIFI-0天线与TX模组天线隔离度:

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

▶ Tr1 S21 Log Mag 15.00dB/ Ref 0.000dB [F2 M De1]



频率 (MHz)	S21(dB)
2400	-36
2450	-37
2500	-35

