



天线测试报告

Antenna Test Report

Customer Name : Sichuan Injet New Energy Co., Ltd.

Address: No.19, Tumenjiang Road, Deyang, Sichuan, 618000, China

Project Name: Dual-band Wi-Fi

Version: 2025.12.29 A0

Tester : Jiang Xiaoxin

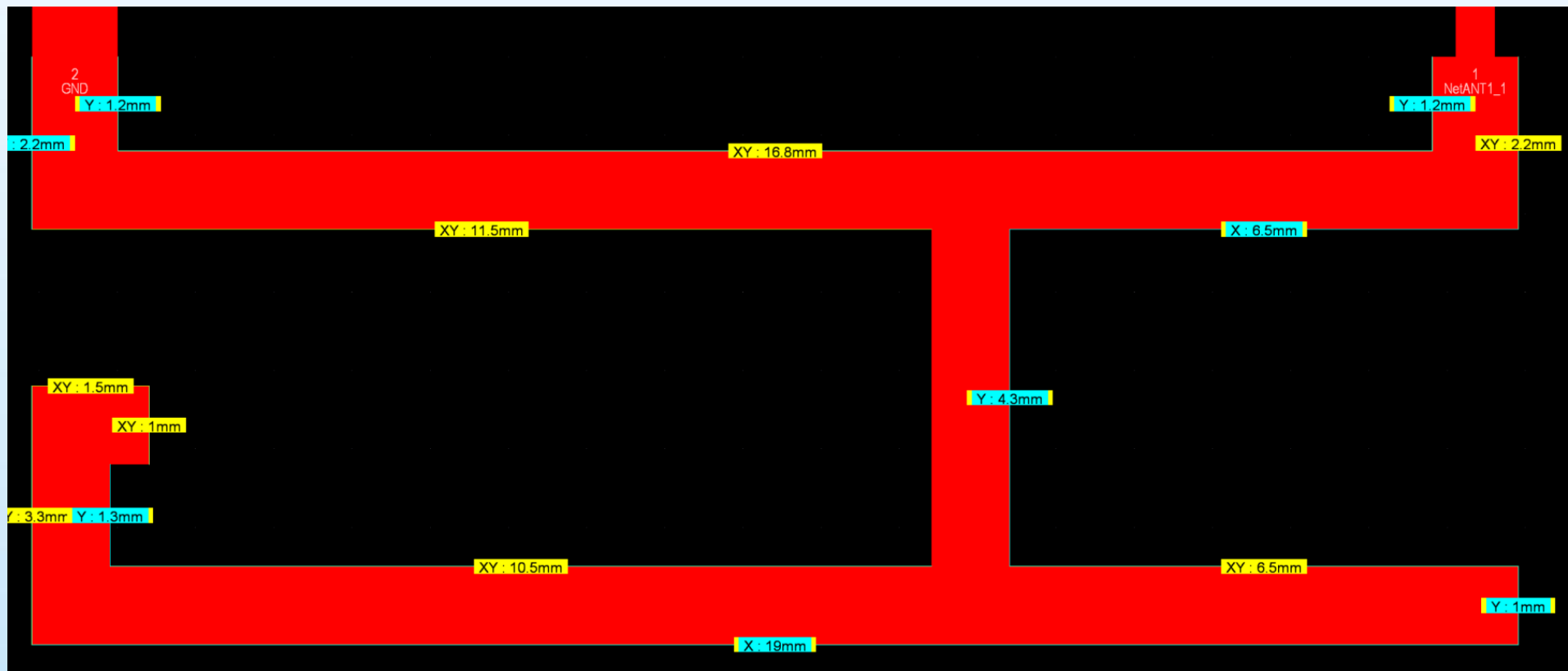
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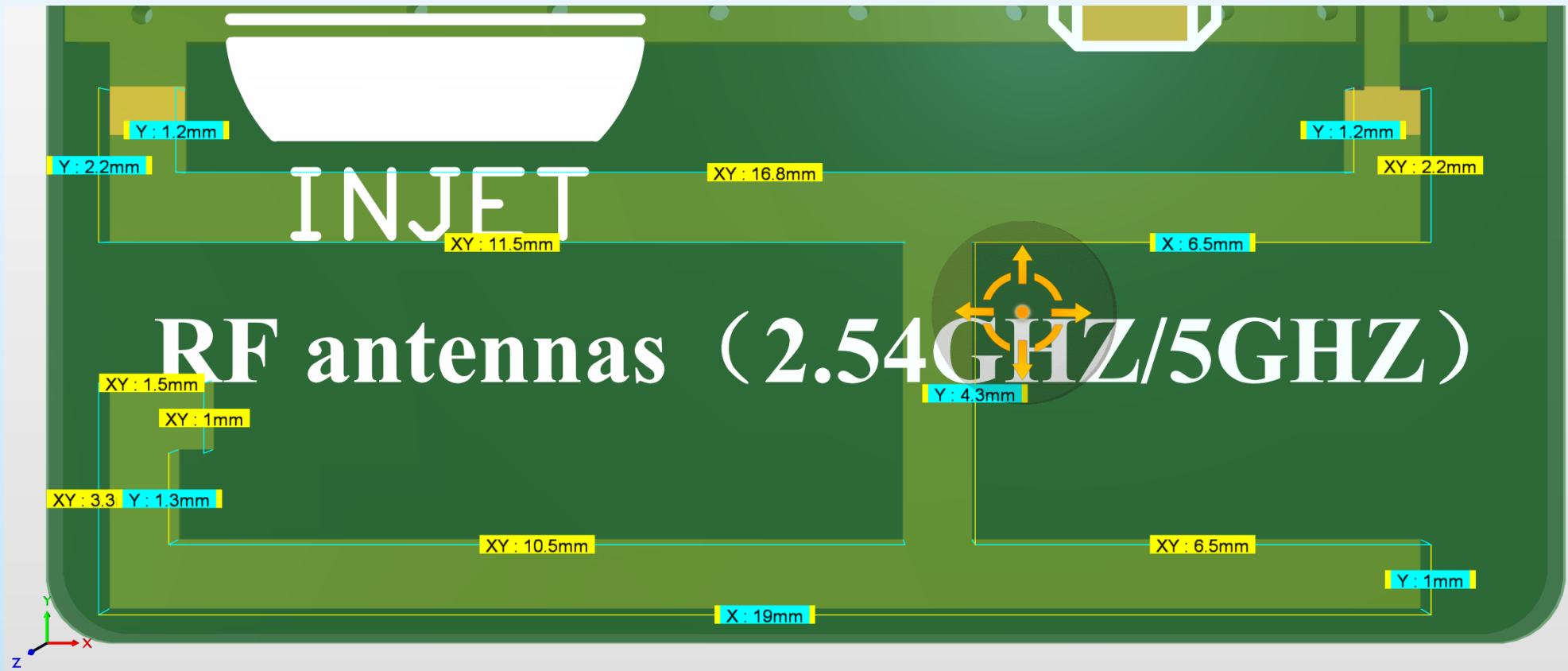
版本 Version	时间 Date	更新说明 Description
A0	2025-12-29	天线测试Antenna Testing
A1		
A2		
A3		
A4		
A5		
A6		
A7		
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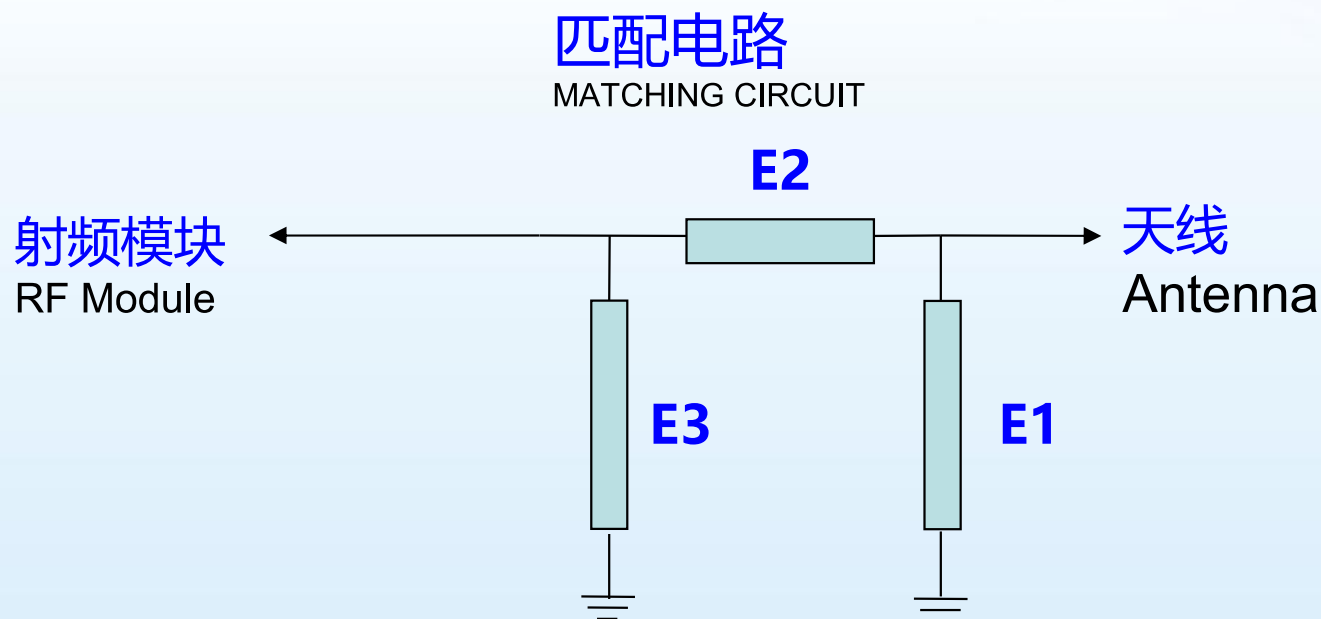
样机状态 Prototype Status	无源机器 Passive Device	
天线类型 Antenna Type	PCB	
天线频段 Antenna Frequency Band	2400MHz-2500MHz	
	5150MHz-5850MHz	
结构形式 Structural Form	板载单极子天线 On-board Monopole Antenna	
环境处理 Environmental Processing	未做改动 Unmodified	
匹配电路 Matching Circuit	未做改动 Unmodified	

天线尺寸图

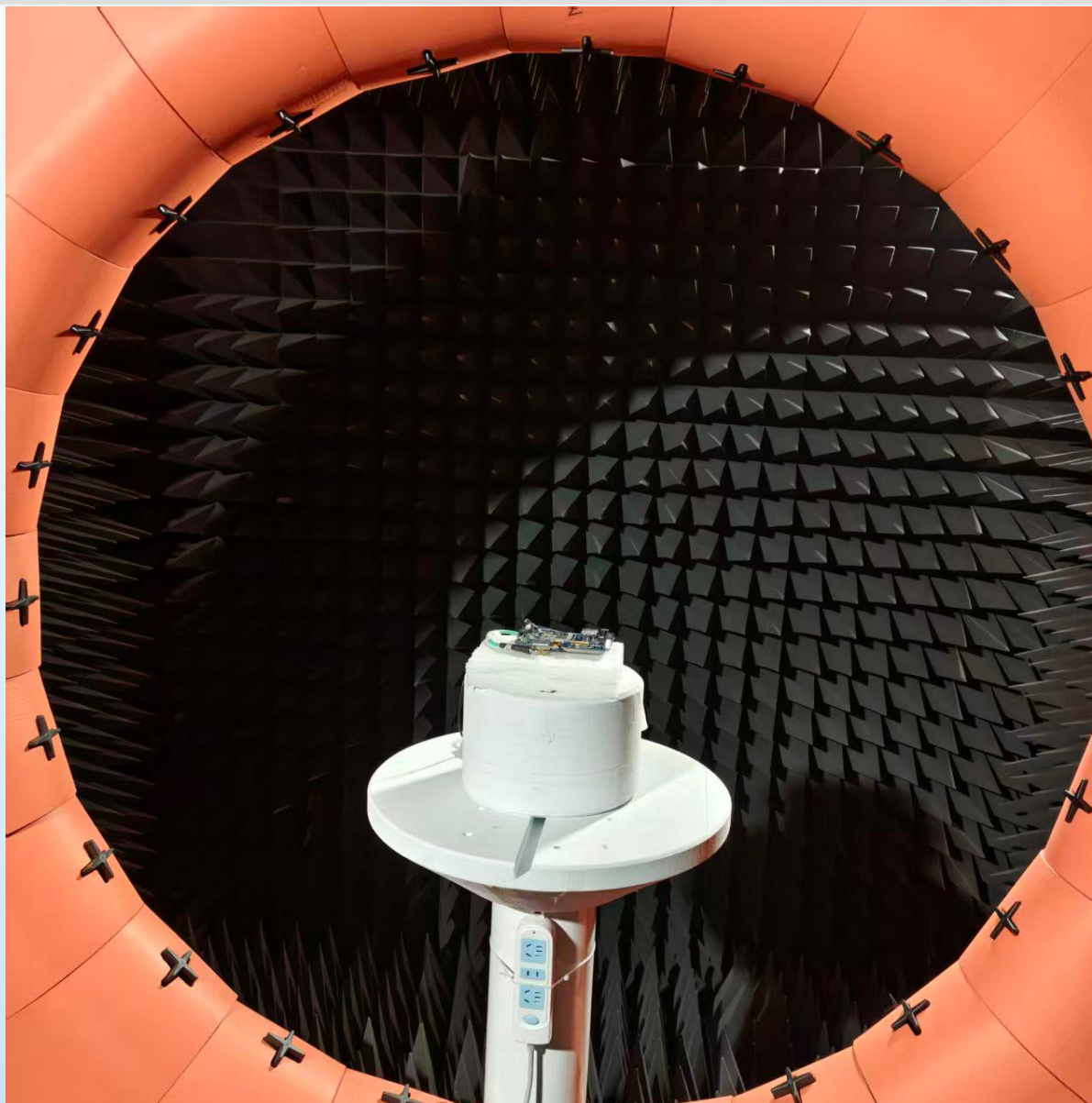
ANTENNA DIMENSION DRAWING



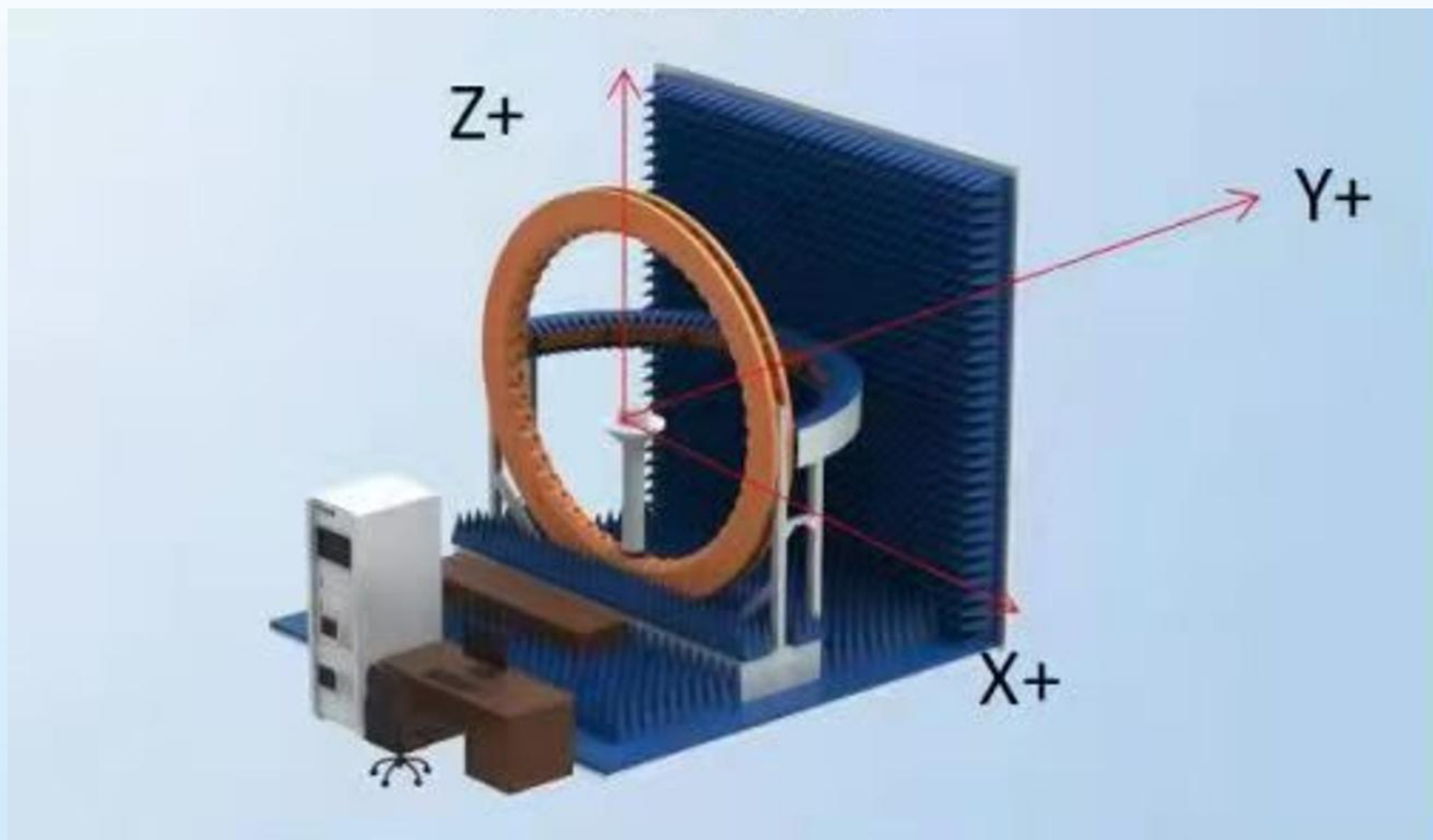




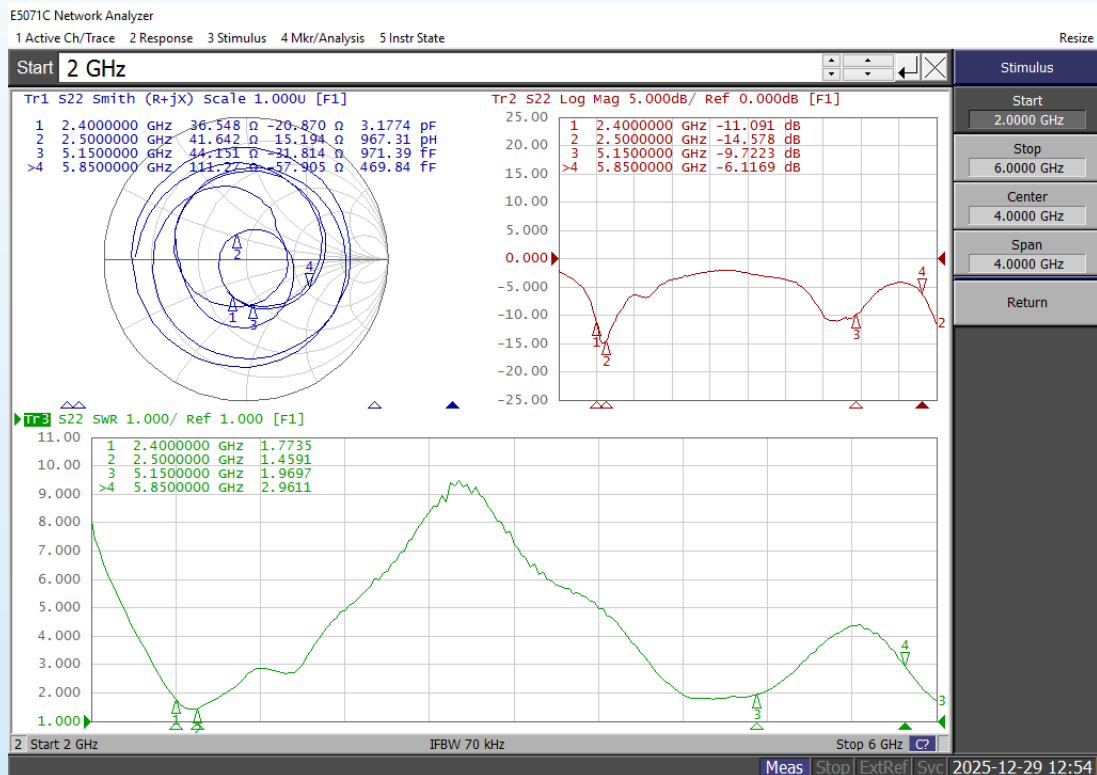
元件 Component	值 Value
E1(0402)	NC
E2(0402)	0Ω
E3(0402)	NC
注：主板匹配未做改动 Note: No modifications made to the motherboard matching	



天线测试时在暗室中摆放位置
Anechoic chamber placement for antenna testing

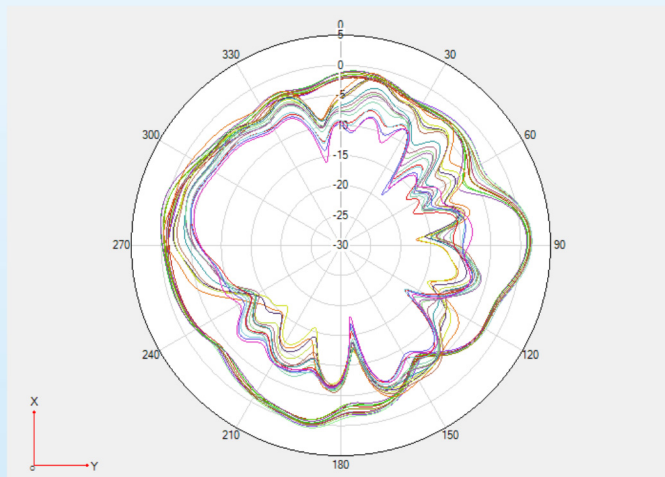


暗室坐标系
Anechoic Chamber Coordinate System

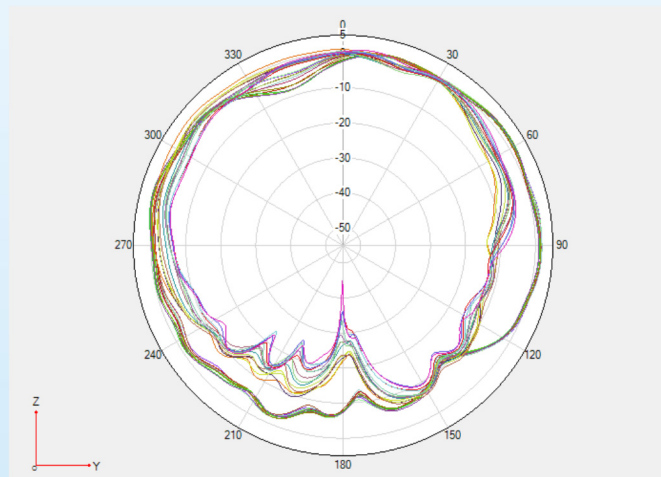


Frequency/Mhz	Efficiency / %	MaxGain/dBi	Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	63.52	2.76	5150	53.58	3.29
2410	62.98	2.88	5200	45.92	2.23
2420	58.45	2.45	5250	45.81	2.15
2430	57.11	2.61	5300	45.29	2.17
2440	60.68	2.68	5350	47.64	2.38
2450	57.95	2.62	5400	37.33	1.24
2460	55.96	2.44	5450	36.14	0.95
2470	59.47	2.9	5500	34.43	0.72
2480	62.98	2.9	5550	37.76	1.14
2490	56.45	3	5600	35.16	1.28
2500	61.38	2.9	5650	29.99	0.73
AVG	59.72	2.74	5700	34.04	1.21
			5750	31.48	1.03
			5800	34.36	1.75
			AVG	39.21	1.59

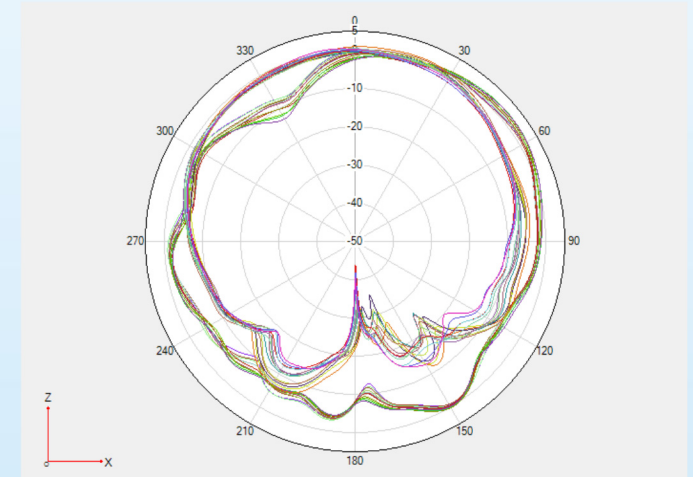
Frequency	VSWR
2400MHz-2500MHz	≤2.0
5150MHz-5850MHz	≤5.0



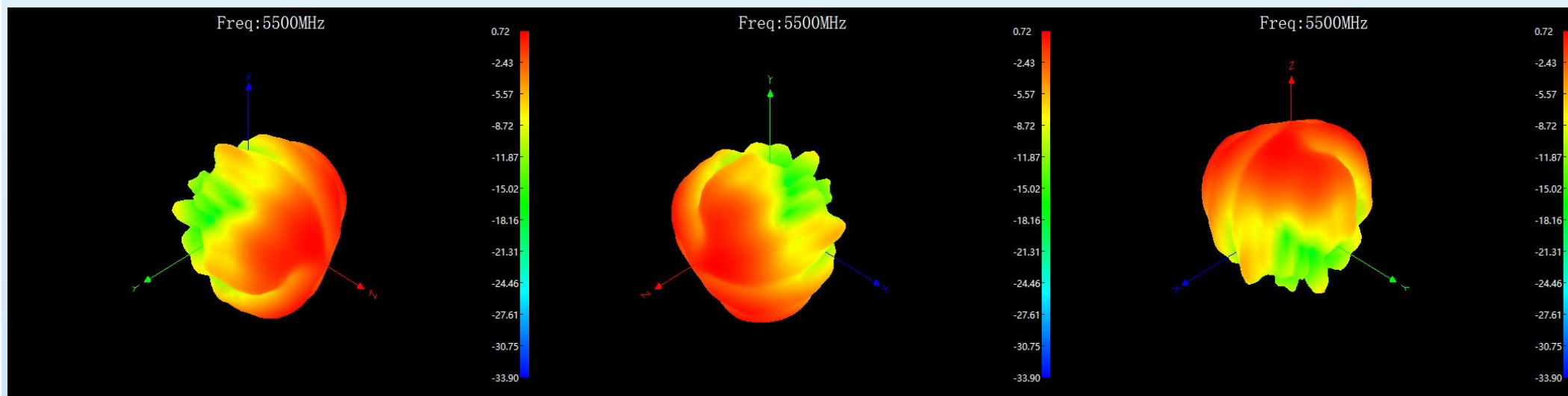
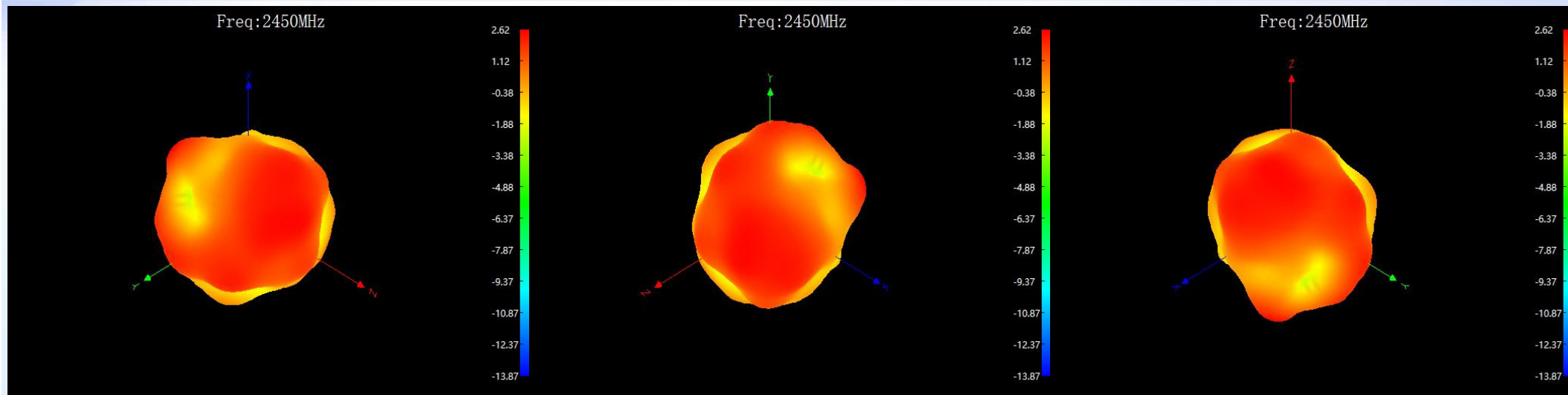
XOY



YOZ



XOZ



XOY

YOZ

XOZ

通过测试调试，天线在2400MHz-2500MHz的平均效率为59.72%，平均最大增益为2.74dBi。
Through testing and debugging, the average efficiency of the antenna in the 2400MHz–2500MHz band is 59.72%, with an average maximum gain of 2.74dBi.

通过测试调试，天线在5150MHz-5850MHz的平均效率为39.21%，平均最大增益为1.59dBi。
Through testing and debugging, the average efficiency of the antenna in the 5150MHz–5850MHz band is 39.21%, with an average maximum gain of 1.59dBi.

Thank You

