

The Main Antenna Sample Confirmation

Customer			
Project Name	BW511	Date	2025-2-19
Project NO.	SN1343	Notes	coaxial line+ FPC
Frequency Range	WIFI:2400-2500MHz		
Designed By	RF Engineer	Structural Engineer	
Checked By	Engineering Manager		
Client' s Approval			

manufacturer: SINAWELL Electronics(Shenzhen) Co., Ltd.

Add: 712-717, Block A Jinfulai Building,49-1 Dabao Road,Xinan 28th area,Baoan District,Shenzhen,China

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1. Specification description

This specification describes the status of the WIFI internal antenna

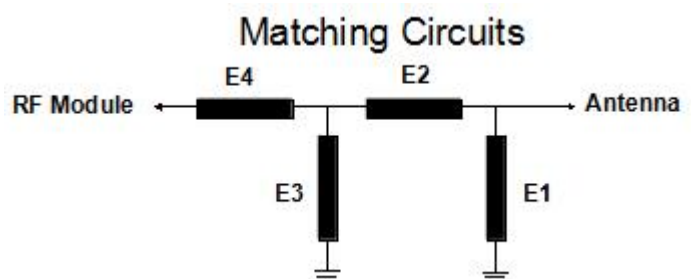
3. Electrical performance

3.1. Antenna band

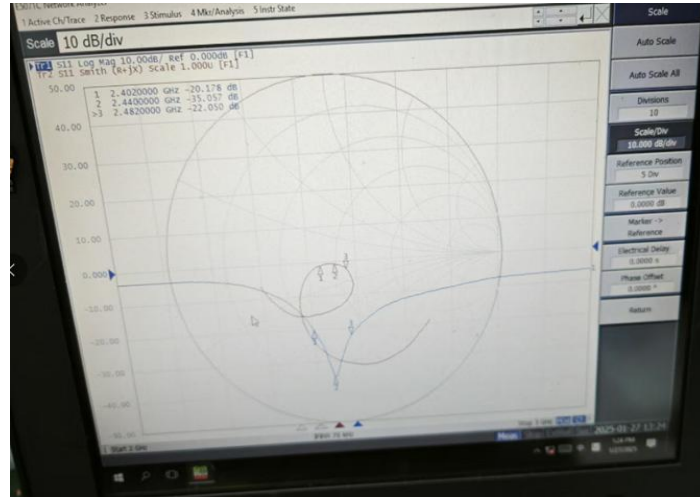
BT: 2400–2500MHz

3.2. Matching Circuit

Element	Value
E1	NC
E2	0 Ω
E3	NC
E4	0 Ω



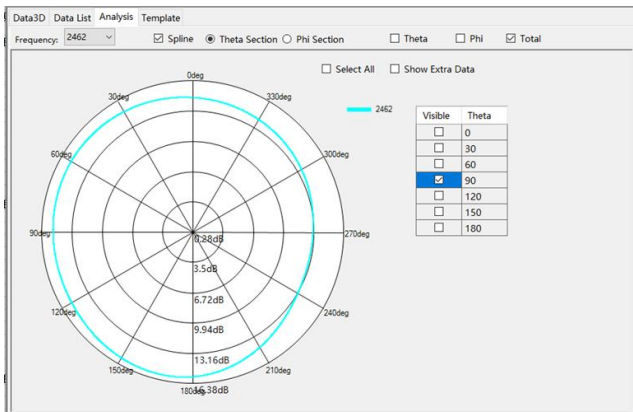
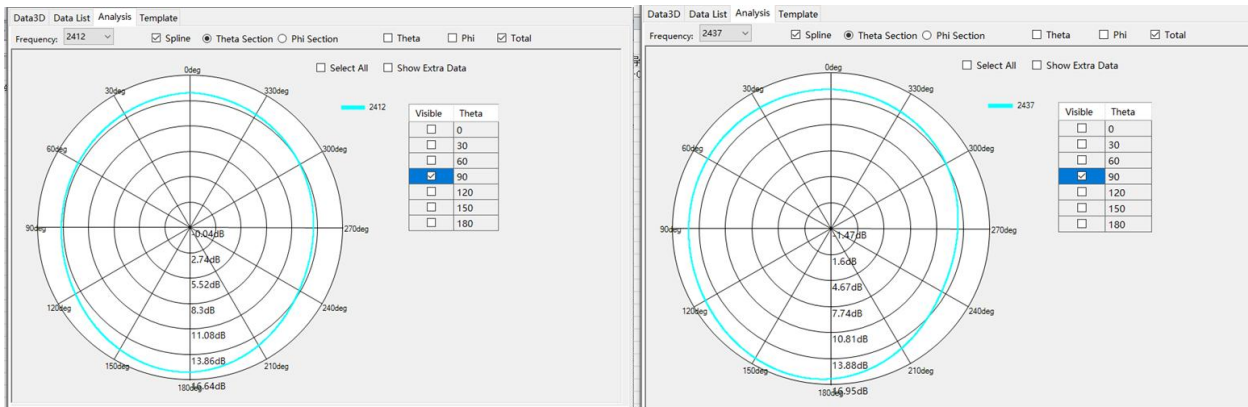
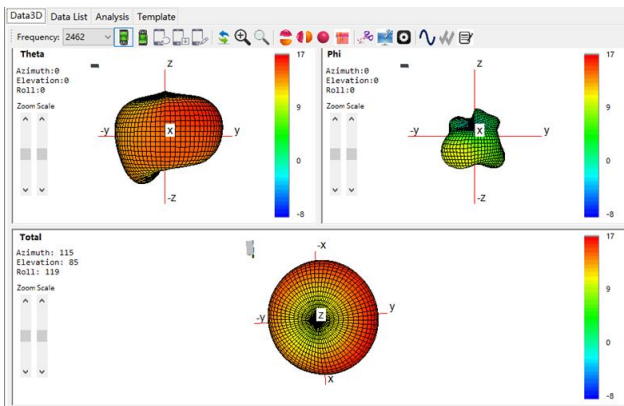
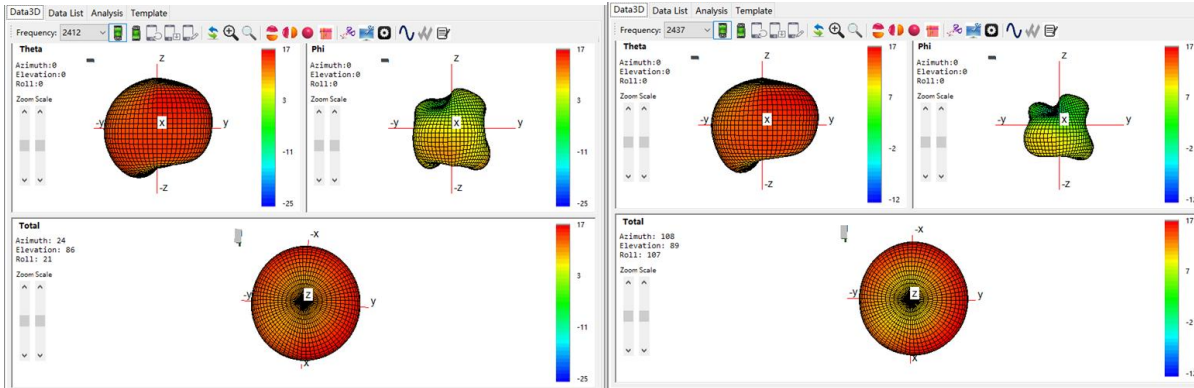
3.3. Return Loss



3.4. antenna passive test data

Passive Test			
Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	65.59	-1.83	1.3
2410	66.47	-1.77	1.3
2420	63.5	-1.97	1.22
2430	62.23	-2.06	1.23
2440	61.89	-2.6	0.14
2450	61.83	-2.09	1.25
2460	59.1	-2.28	0.86
2470	56.72	-2.46	0.64
2480	53.85	-2.69	0.44
2490	51.66	-2.87	0.26
2500	50.54	-2.96	0.12

3.5. Field intensity pattern



4. Structural Drawing

