

Antenna Sample Acknowledgement

The Main Antenna Sample Confirmation

Customer	Shenzhen Rainbow Light Medical Equipment Co			
Project Name	MP300/MP210/MP84		Date	2025-7-4
			Date	
Project NO.	SN1414-V1. 1	Remarks	FPC	
		Notes		
Frequency bands Frequency Range	WIFI			
Designed By	RF Engineer		Structural Engineer	
Audit Checked By	Engineering Manager			
Client's Approval				

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1. specification overview
- This datasheet describes the status of the MP300/MP210/MP84 built-in antenna for WIFI.



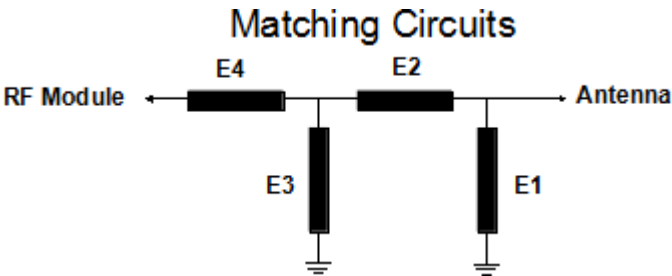
2. electrical properties

2.1. Antenna bands

	WIFI
transmitter b (MHz)	2400MHz-2480MHz

2.2. matching circuits

Test point in the antenna connector (RF test port), see the following figure antenna matching, the original motherboard antenna matching circuit remains unchanged.



3. Appearance structure

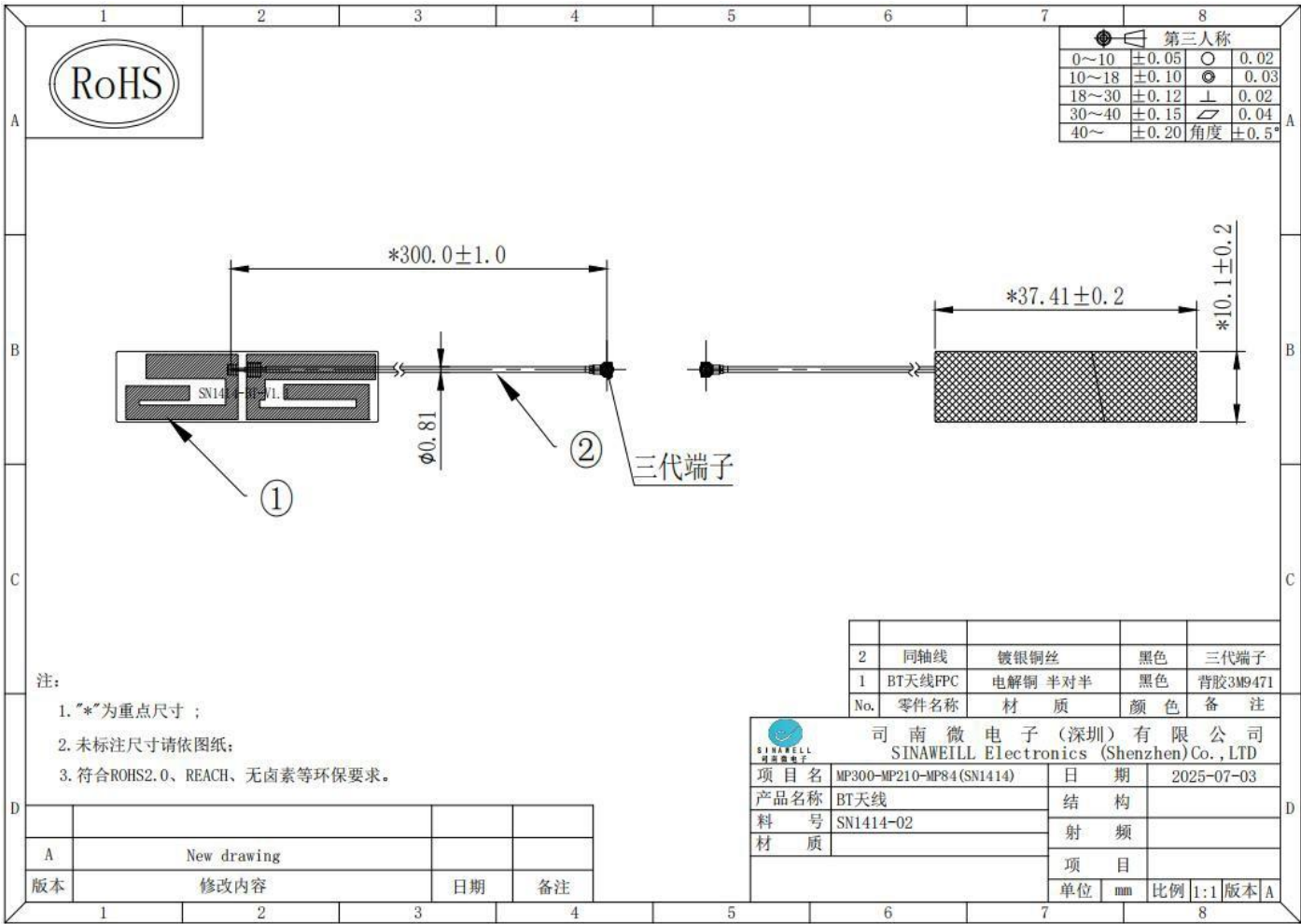
3.1. Antenna material

FPC

Appendix I: Structural drawings

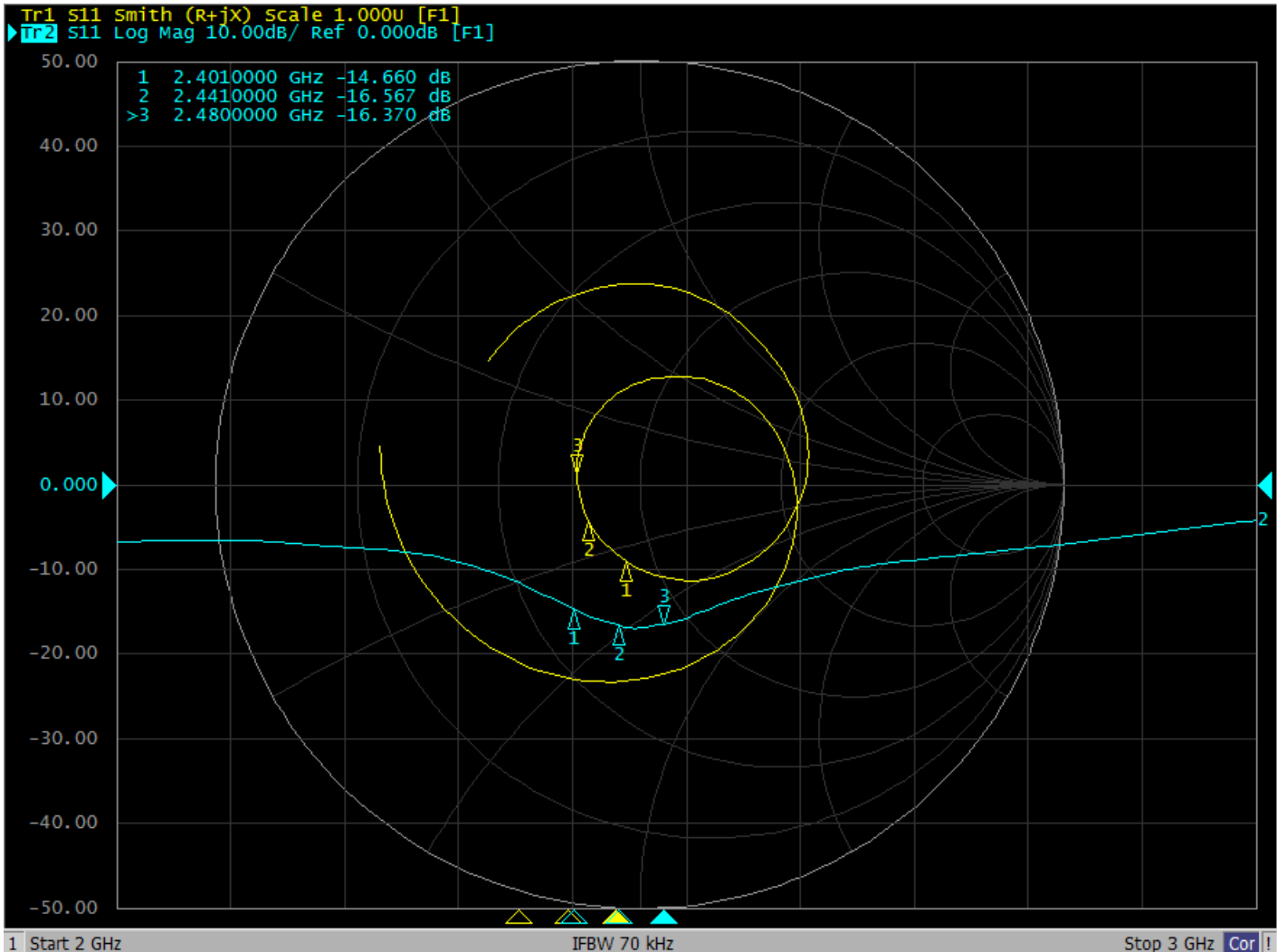
Appendix II (Electrical Performance Test Report)

Structural drawings (annex I)



Test report (annex II)

return loss



efficiency test data

Passive Test For										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)
2400	36.88	-4.33	0.74	-1.41	14.222	22.657	0.74	-17.5	4.33	90
2410	34.49	-4.62	0.25	-1.9	13.313	21.178	0.25	-18.6	4.62	90
2420	31.92	-4.96	-0.12	-2.27	12.305	19.611	-0.12	-20.66	4.96	90
2430	28.41	-5.47	-0.82	-2.97	10.912	17.494	-0.82	-21.73	5.47	90
2440	28.16	-5.5	-0.79	-2.94	10.743	17.415	-0.79	-20.27	5.5	90
2450	30.27	-5.19	-0.66	-2.81	11.514	18.76	-0.66	-17.41	5.19	90
2460	31.24	-5.05	-0.54	-2.69	11.666	19.577	-0.54	-14.4	5.05	90
2470	30.64	-5.14	-0.67	-2.82	11.388	19.255	-0.67	-12.74	5.14	90
2480	35.8	-4.46	-0.07	-2.22	13.132	22.671	-0.07	-11.66	4.46	90
2490	34.96	-4.56	-0.19	-2.34	12.869	22.096	-0.19	-11.5	4.56	90
2500	37.94	-4.21	-0.07	-2.22	13.985	23.955	-0.07	-11.27	4.21	90