



**Shenzhen Yunshang Electronics Co., Ltd**

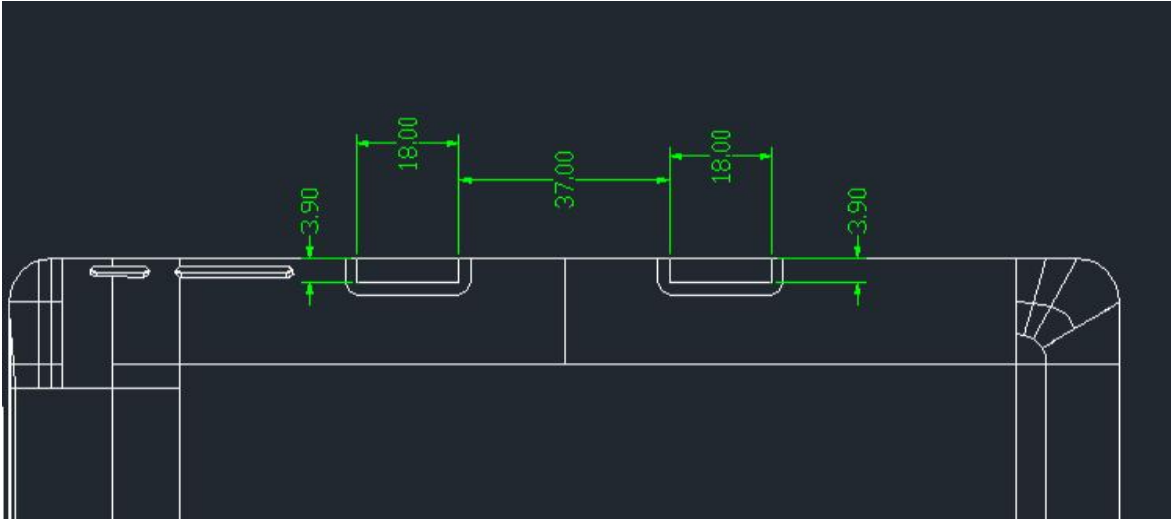
# **S1 PRO Debugging report**

Address: 1st Floor, Building B, Fengsheng Building, DabaoLude, Bao'an District,  
Shenzhen

# Summary of Report Version

[illegible]

# Antenna size

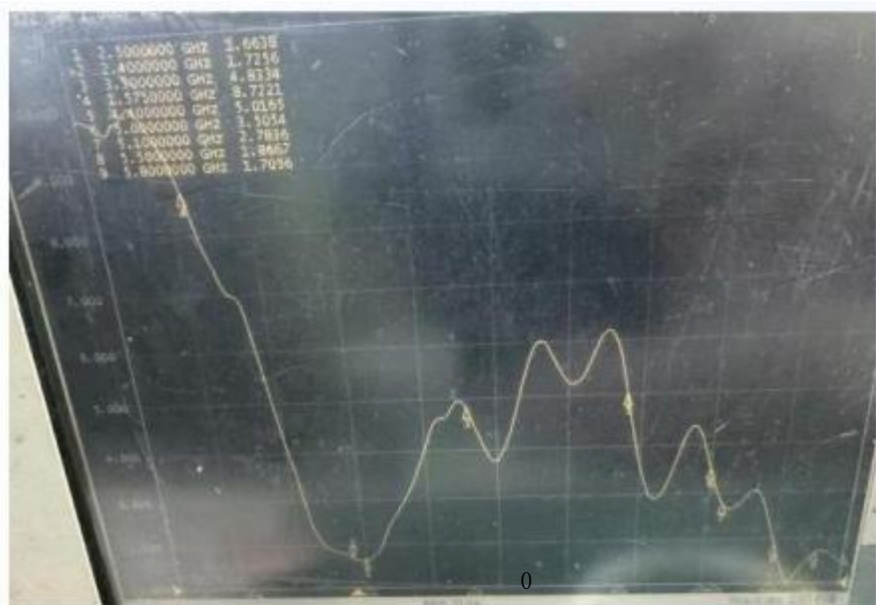


# Dark room testing WIFI data (screen lit)

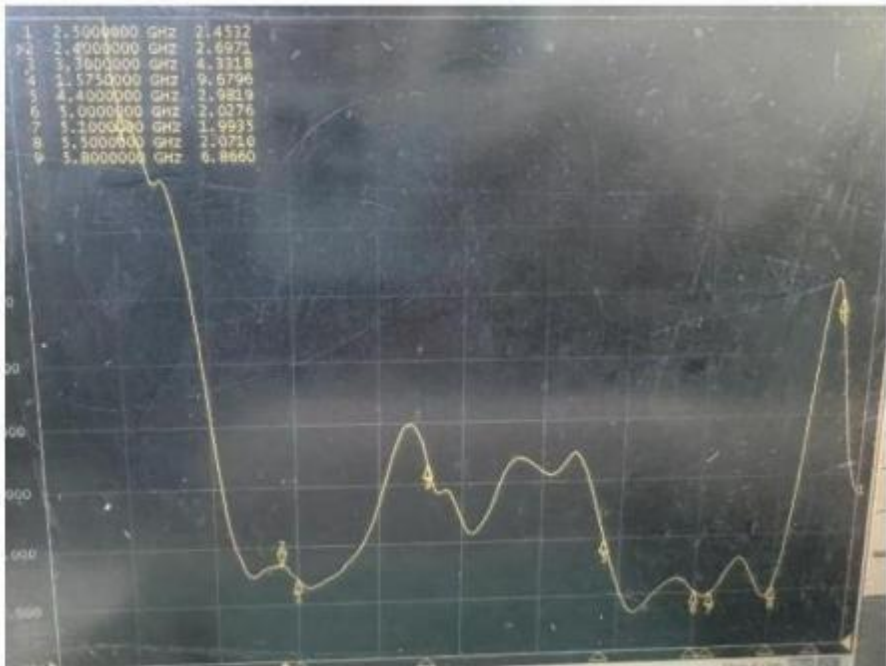
Band	Channel	Total	Tis
B_11M	1	11.72	79.1
	6	10.58	78.85
	11	10.28	79.57
A_54M	36	10.31	66.8
	64	12.92	69.4
	165	11.06	67.2

Band	Channel	Total	Tis
G_54M	1	8.69	62.3
	6	8.97	57.85
	11	8.24	57.35
N_65M	32	9.31	58.48
	64	9.92	54.45
	165	8.06	54.32

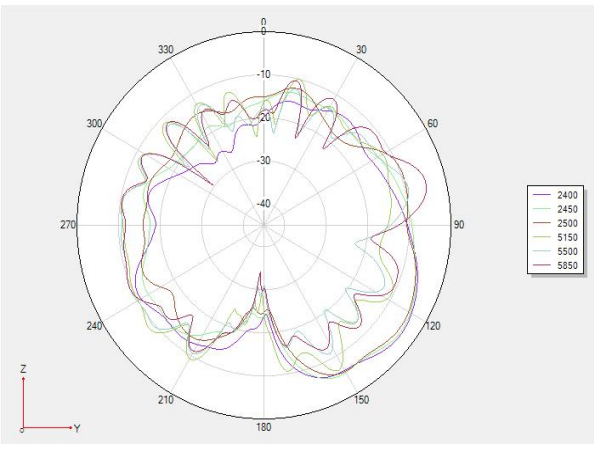
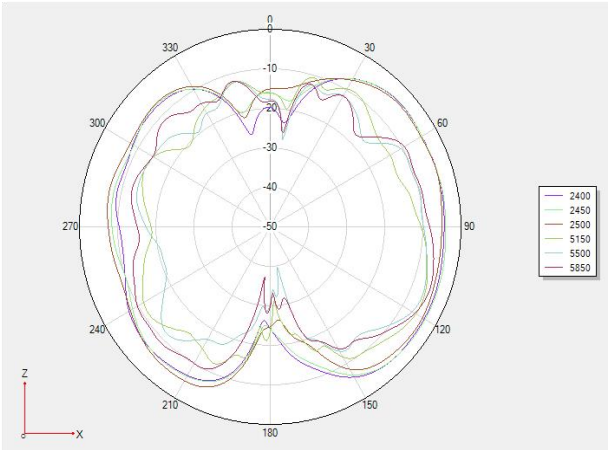
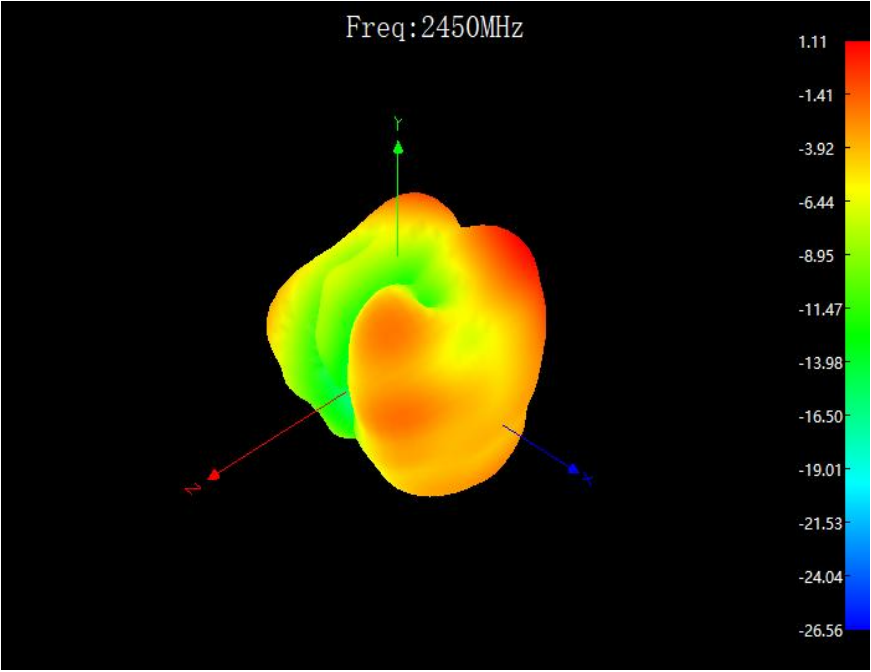
# Bluetooth antenna data



frequency	gain	efficiency
频率 (MHz)	增益 (dB)	效率
2400	2.48	32.99%
2450	2.6	35.28%
2500	2.43	33.41%
5100	-2.15	19.86%
5200	-1.08	21.23%
5300	-0.68	25.00%
5400	0.74	23.48%
5500	0.77	25.40%
5600	0.6	24.86%
5700	-0.42	22.98%
5800	0.58	21.23%

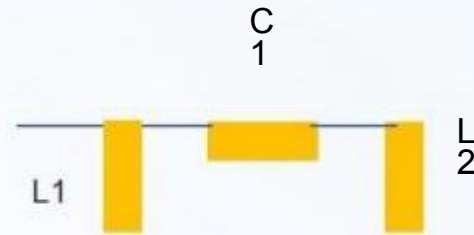


frequency	gain	efficiency
频率 (MHz)	增益 (dB)	效率
2400	0.77	25.40%
2450	0.6	24.86%
2500	-0.42	22.98%
5100	2.43	26.88%
5200	1.59	27.63%
5300	1.3	26.63%
5400	0.74	23.48%
5500	-0.02	21.19%
5600	-1.03	18.58%
5700	-1.6	18.34%
5800	-1.26	18.85%



# Matching circuit<sub>ANT</sub>

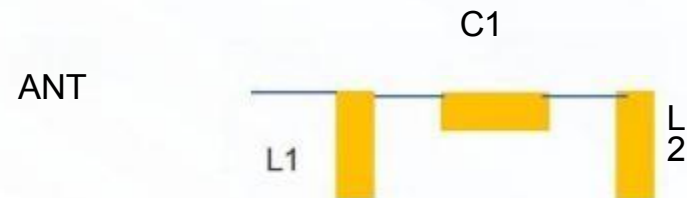
左



C1=1.5NH



右



1.5NH

C1=1.2NH  
L1=0.5PF



0.5PF

1.2NH



# environmental treatment



Swap the coaxial lines and fasten them as shown in the diagram





# Risk statement

Please carefully confirm whether the matching circuit mentioned in the report has been modified and whether the environmental treatment has been imported, as this will directly affect the antenna performance. The parameters provided in this report are only the parameters provided by the customer to our company for testing the prototype, and do not represent the final mass production status of your company's final project.

**Risk statement**  
If your company has the latest prototype for trial production or updated status (replacement of materials, software, environmental treatment, etc.), please submit it to our company for verification as soon as possible to confirm whether the antenna performance is affected. If your company needs to send the machine for third-party retesting or customer testing, please be sure to hand it over to our company for testing and confirmation, as factors such as motherboard consistency, assembly consistency, and differences in antenna assembly may lead to deviations in antenna parameters.

**THE END**