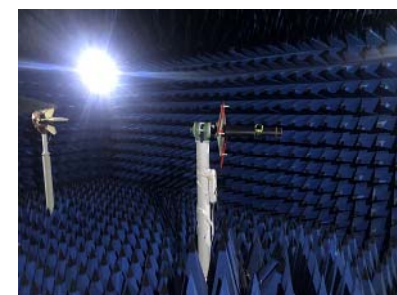


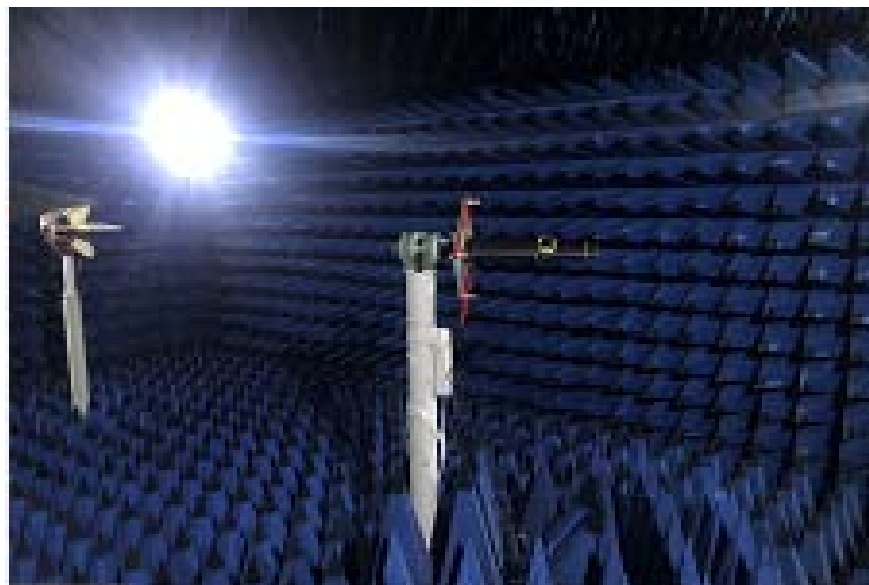
Incarn S105 antenna test report

Radio frequency: Xiao
Jinbao
Date: 2023-7-8



Project development environment

We are moving from the Internet era to the intelligent era, and the country is building a digital society and a smart city. In the next 5-10 years, there is a huge development potential in both the consumer electronics market and the Internet of Things market. The field of wireless communication is very diversified. In the future, relying on the customer platform advantage of the main antenna industry and its own comprehensive strength, Yusheng will strive to provide customers with professional product solutions with market competitiveness.



Yu Sheng communication products cover almost all wireless terminal equipment antenna applications, including car antenna, high precision surveying and mapping antenna, drone ground and satellite data navigation, high precision positioning antenna, medical equipment wireless transmission, consumer antenna (mobile phone antenna, PAD, laptop antenna), base station / indoor distribution antenna, smart wear antenna (smart watches, TWS headphones), security household antenna and a variety of wireless data transmission and wireless control of intelligent equipment antenna, etc.

1

Project commissioning brief

2

Outline of the report version

3

Antenna active parameters

4

antenna efficiency

5

antenna gain

6

antenna pattern

Project commissioning
brief

type	dull and stereotyped			
Frequency band and antenna material	main antenna	frequency range		material quality
		2G	/	Metal frame
		3G	/	
		4G	/	
	Other antennas	WIFI	2. 4G/5G	Metal frame
performance requirement	According to the customer's requirements			

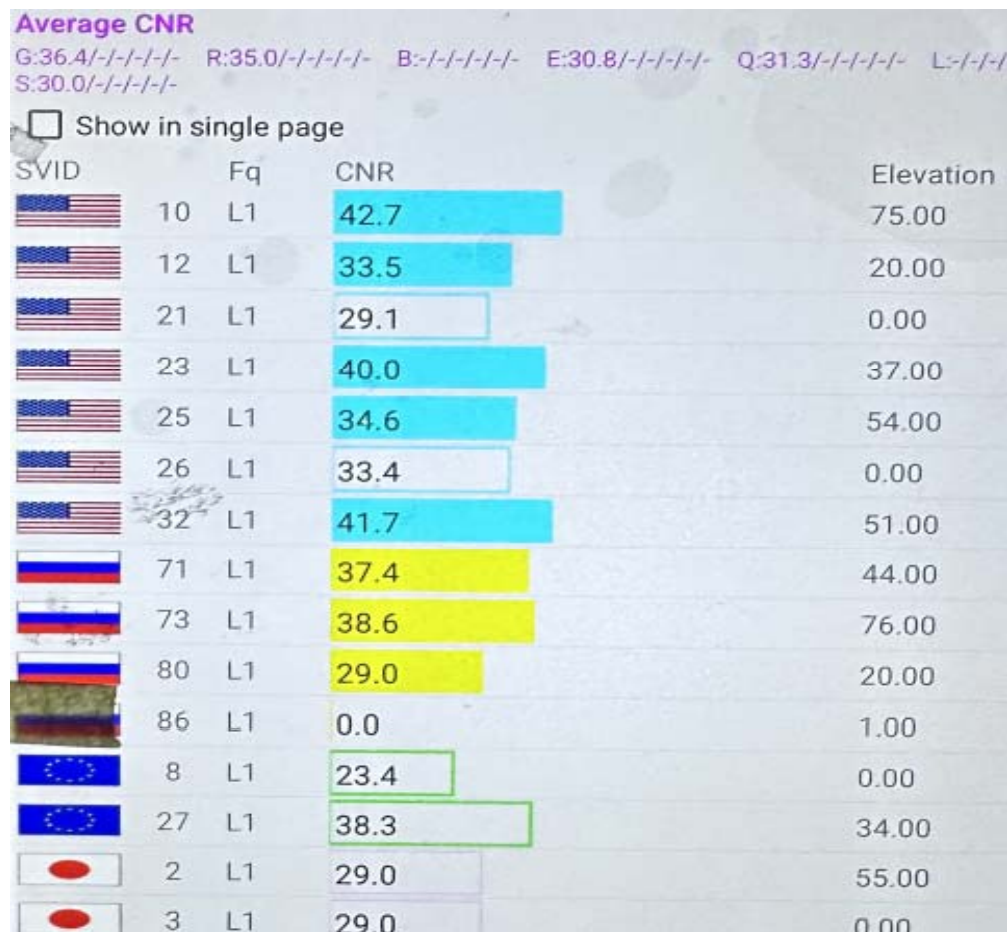
Outline of the report version

Report version	Report time	The antenna development solved the problem
V0.1	2023-7-8	Antenna test report

Antenna active parameters

	802.11	channel number	The original data	
			TRP (db)	TIS (dbm)
WIFI	11B	CH1	12.20	
		CH7	12.27	
		CH13	12.13	-83.15
	11G	CH1	12.15	
		CH7	12.21	
		CH13	12.08	-70.06
	11N	CH1	11.64	
		CH7	11.72	
		CH13	11.50	-68.73
	11A	CH36	8.28	
		CH64	8.35	
		CH165	8.16	-69.52

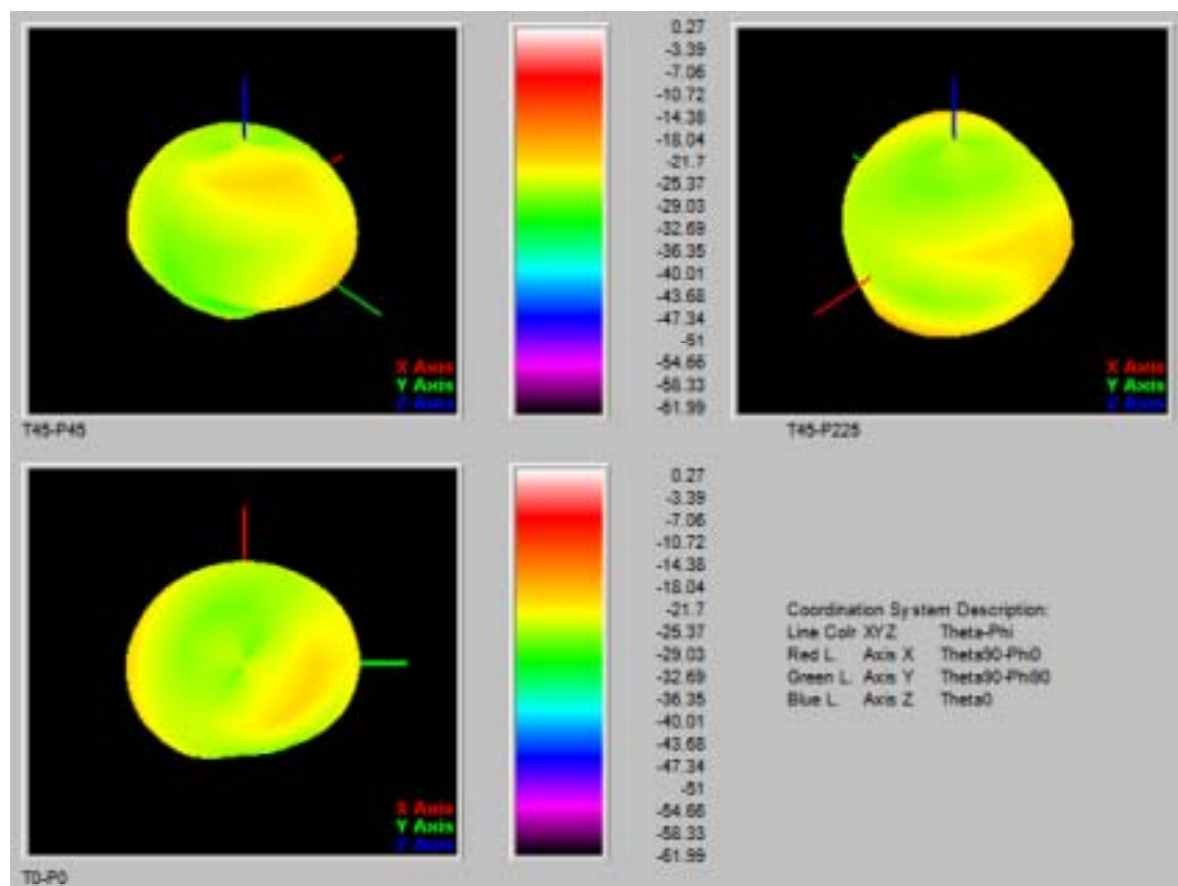
The GPS star search test



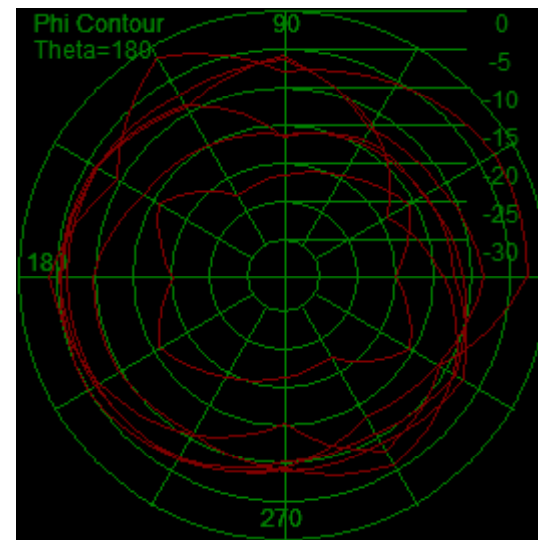
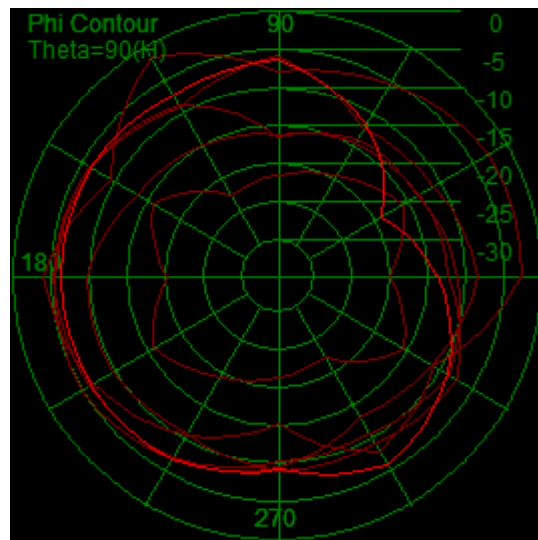
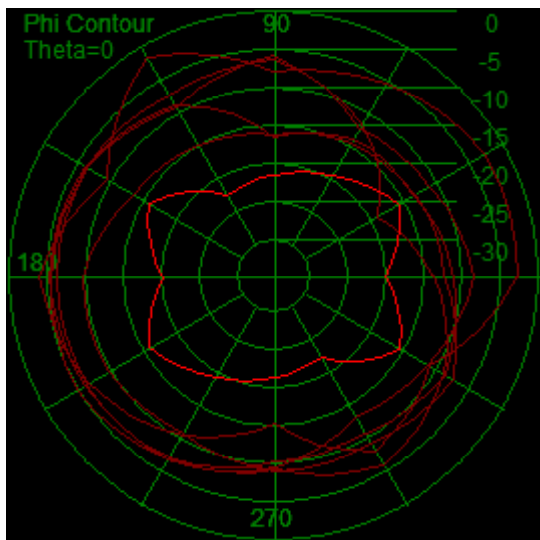
The WIFI antenna has no passive parameters

Passive Test								
Freq	Effi	Gain	Freq	Effi	Gain	Freq	Effi	Gain
(MHz)	(%)	(dBi)	(MHz)	(%)	(dBi)	(MHz)	(%)	(dBi)
1550.0	16.6	-1.40	2400.0	35.1	0.32	5100.0	19.5	-0.10
1560.0	17.3	-1.38	2420.0	35.8	0.38	5200.0	21.1	-0.02
1570.0	16.8	-1.42	2440.0	36.2	0.40	5300.0	22.3	0.11
1575.0	16.2	-1.47	2450.0	36.8	0.42	5400.0	24.2	0.17
1580.0	15.9	-1.53	2460.0	35.4	0.37	5500.0	23.7	0.15
1590.0	14.5	-1.61	2480.0	33.8	0.32	5600.0	22.5	0.12
			2500.0	32.1	0.26	5700.0	21.4	0.04
						5800.0	20.6	-0.06

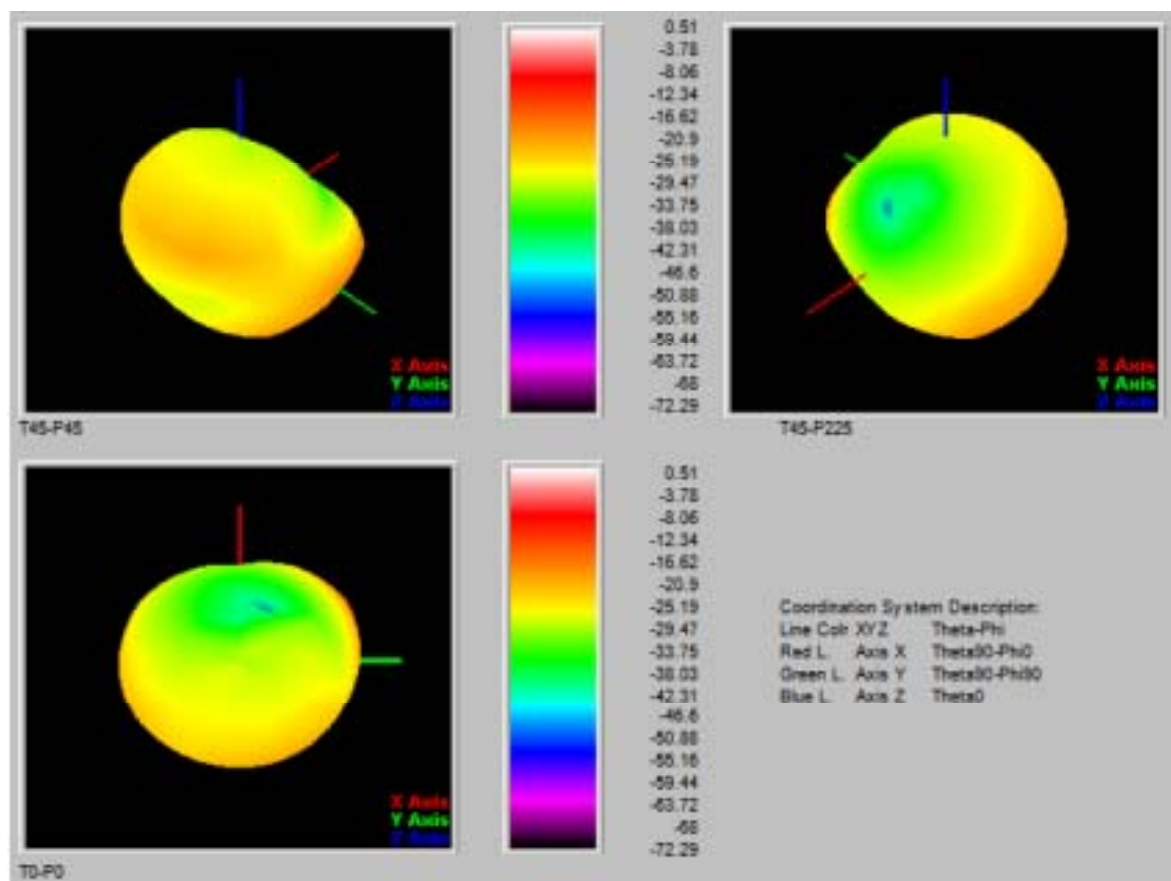
GPS passive parameter-orientation diagram



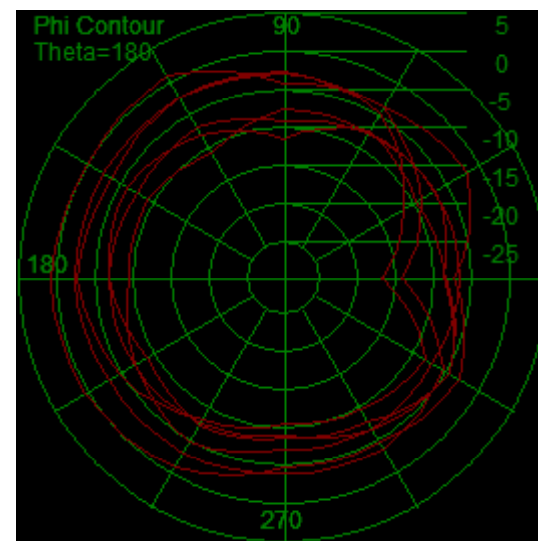
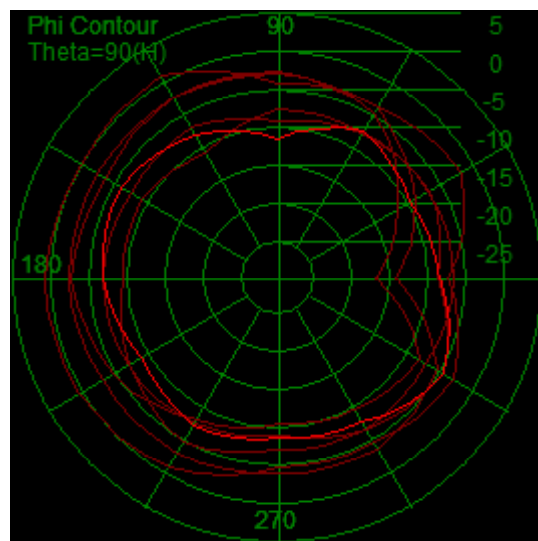
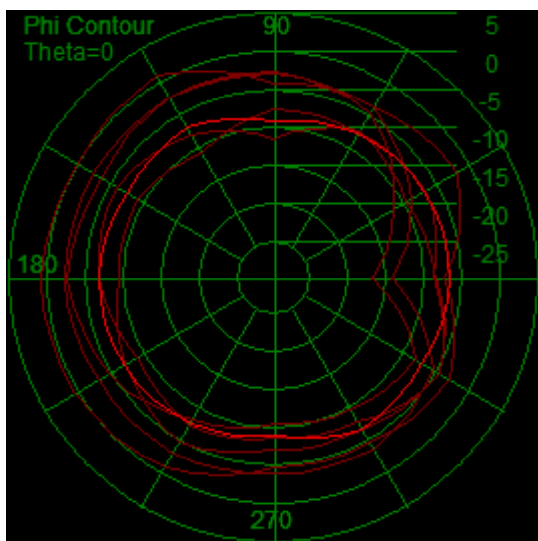
Antenna passive parameters- -plan diagram-
GPS



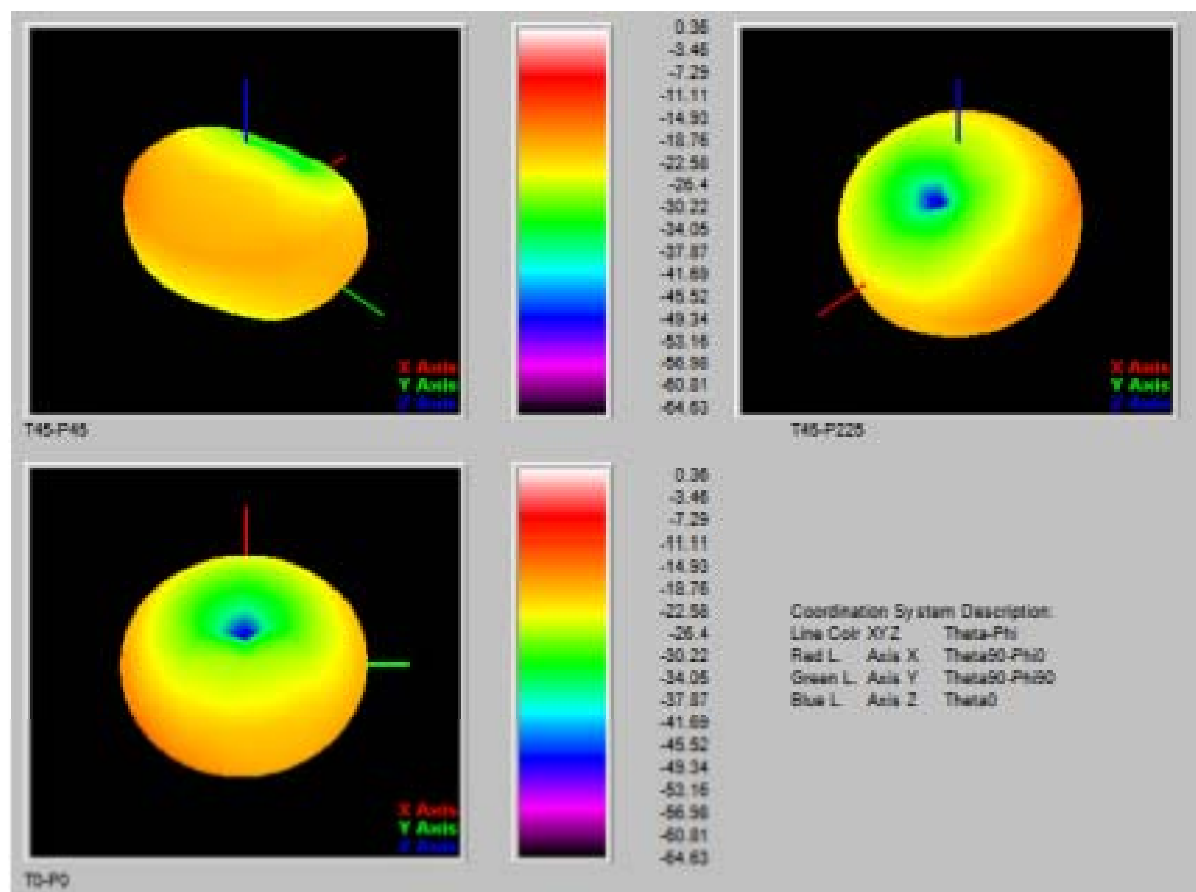
2.4 GWIFI / BT passive parameter-orientation diagram



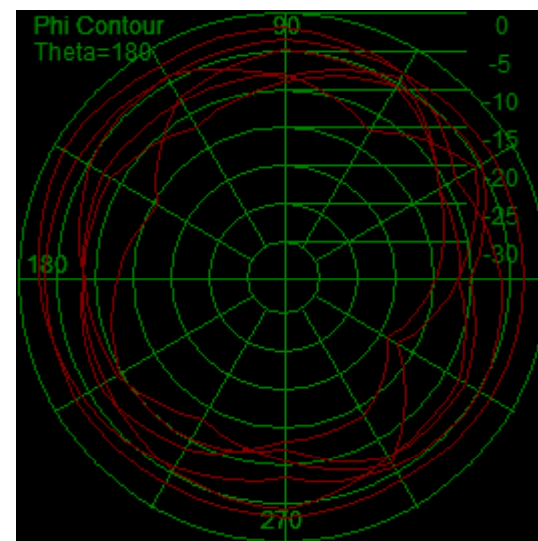
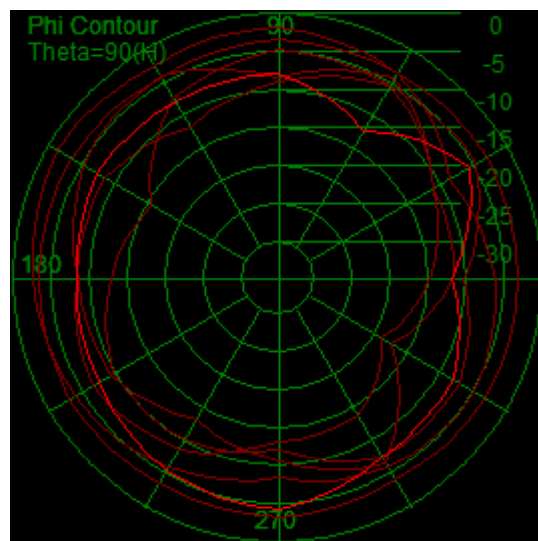
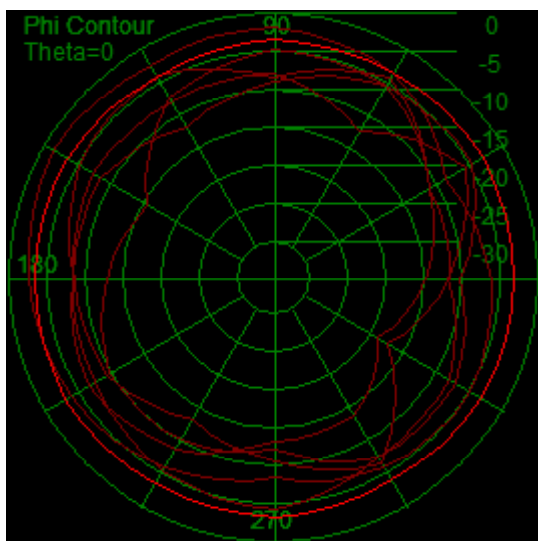
Antenna passive parameters-flat plan diagram-2.4G
WIFI / BT



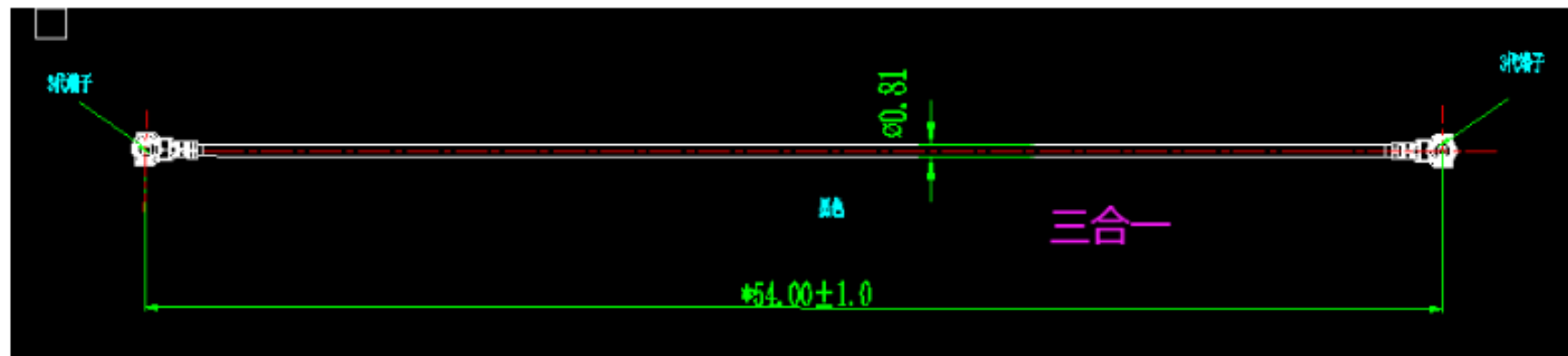
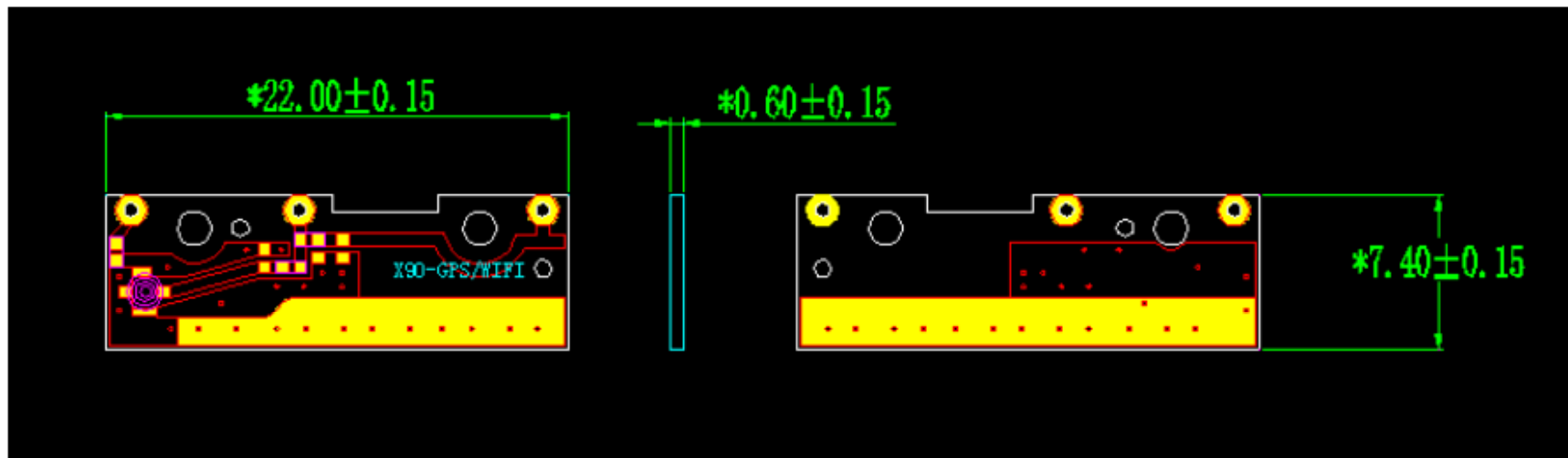
5. 8GWIFI passive parameter-orientation diagram



Antenna passive parameters-flat plan
diagram-5.8G WIFI



WIFI antenna size
diagram



Thank you!



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