Shenzhen HamyWe Technology Co., Ltd.

Add:1st floor,Building B,Jinghang Industrial Park,Liu xian 2nd

S66RFT Antenna Debugging Report

Name: Wen Xuehua

• Tel: 13609625813

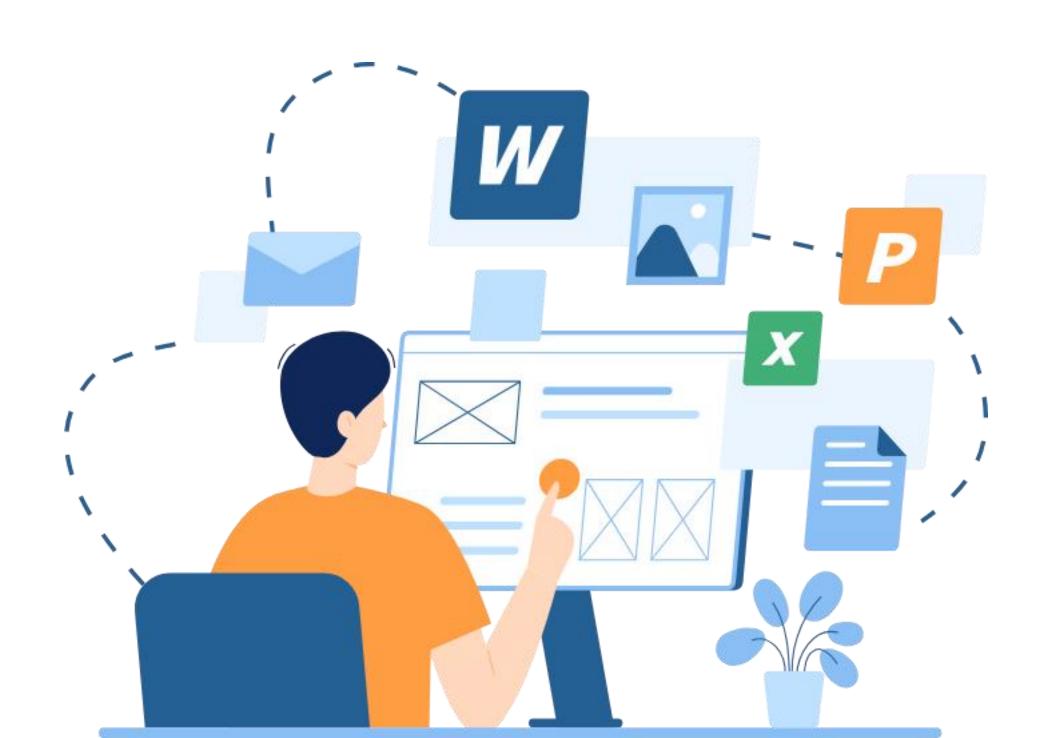
• Date: 2024. 3. 15







Catalogue

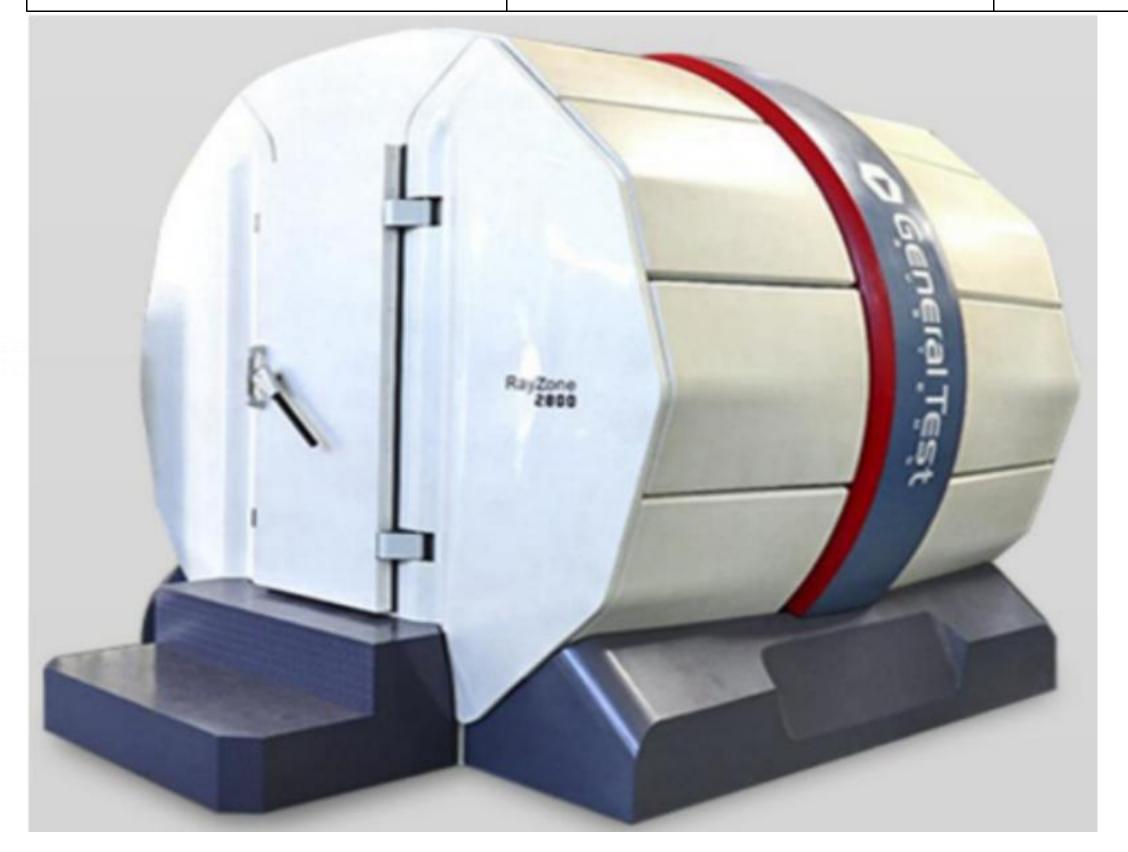


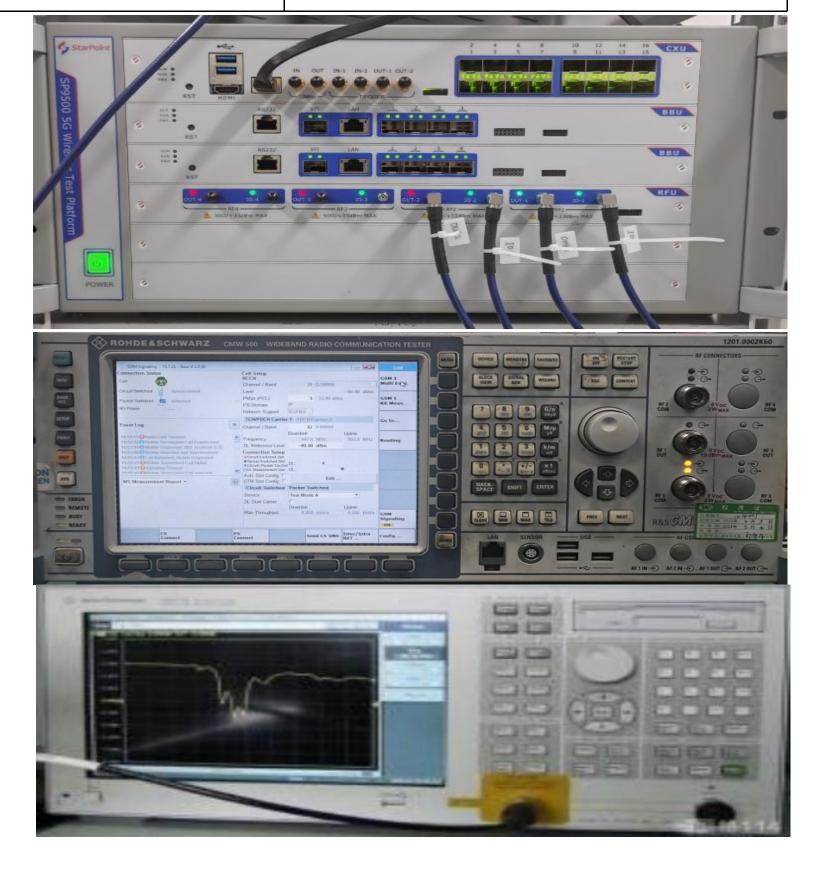
- 1 Test Equipment
- 2 Project Description
- Recording of Dubugging Version
- 4 Recording of Matching
- 5 S11 Parameter
- 6 OTA Test Results
- 7 Important Instruction





◆ Testing System	◆ Testing Environment	Active Testing	Passive Testing
	temperature: 22°C±3°C	support 5G/4G/3G/2G	
GTS2800	humidity: 50%±15%	support BT/WIFI/GPS	600MHZ——6G









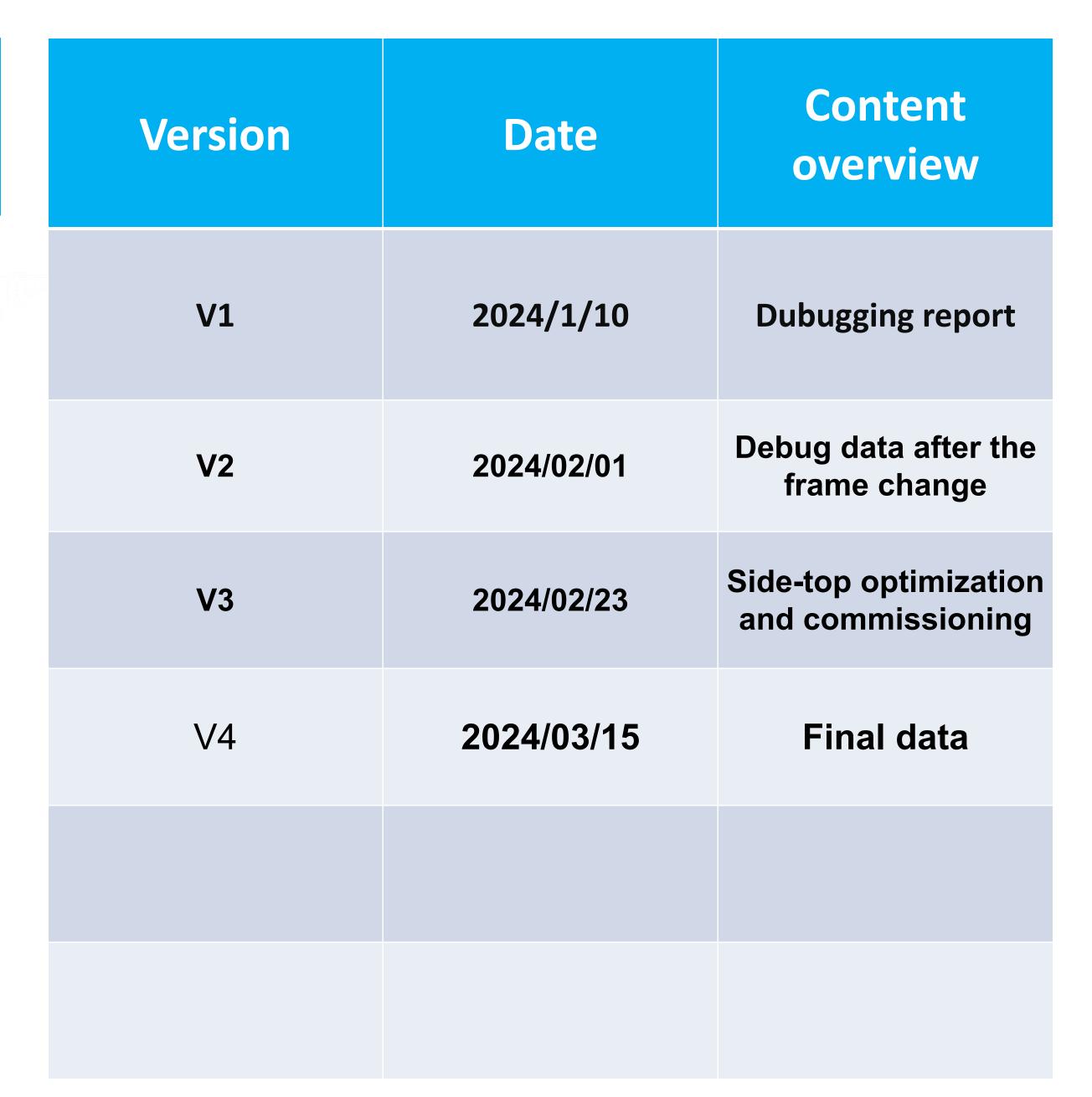


Machine type	Cell Phone							
Antenna & Supportting Band	Main Antenna B/G/W	G4 W1/2/5/8 LTEB1/2/3/4/5/7/8/12/17/28/38/66 Yes						
	Diversity Antenna	Yes						
Antenna Material/ Antenna Form	Metal frame plus FPC							



Recording of Dubugging version

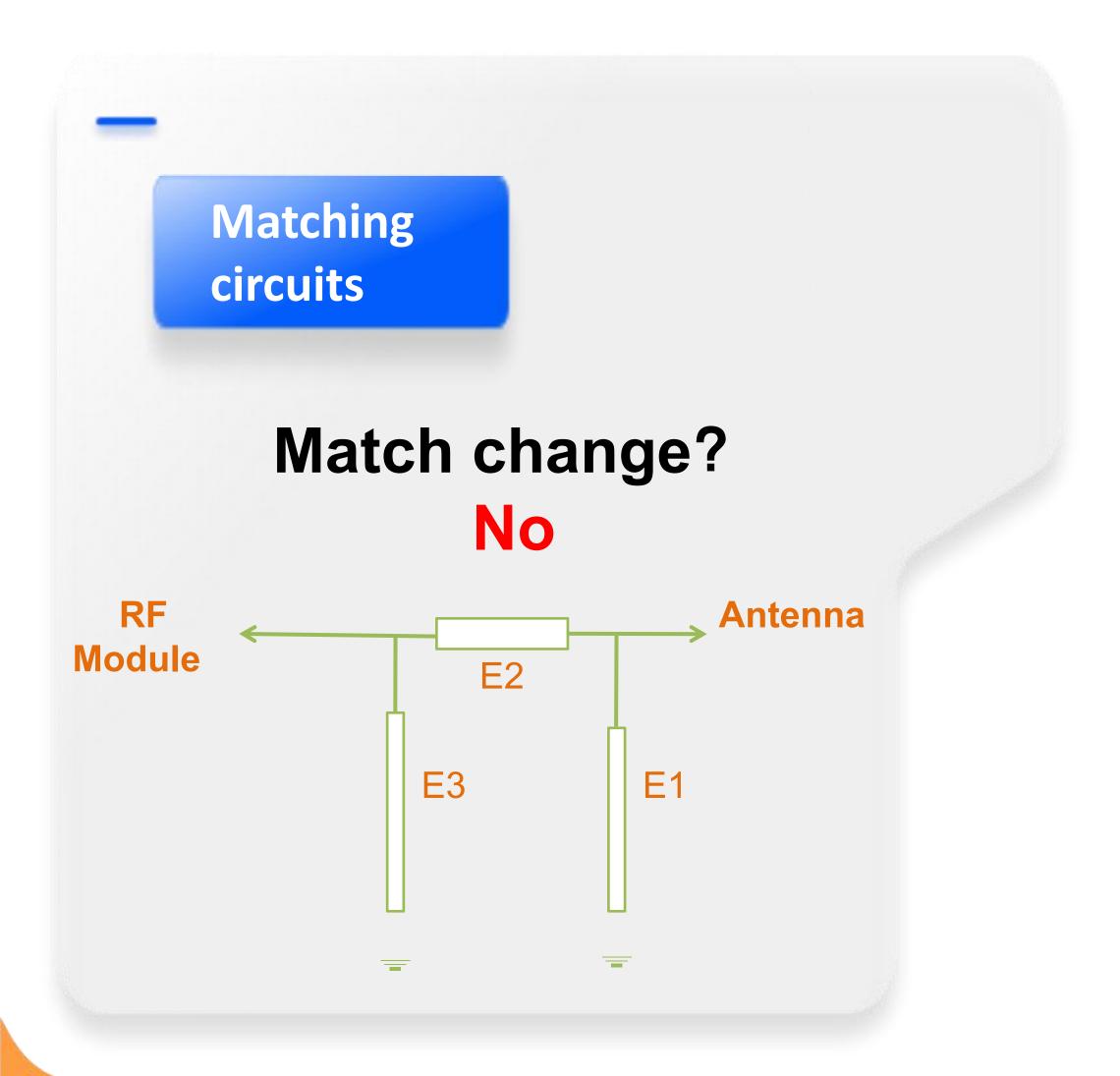
S66RFT

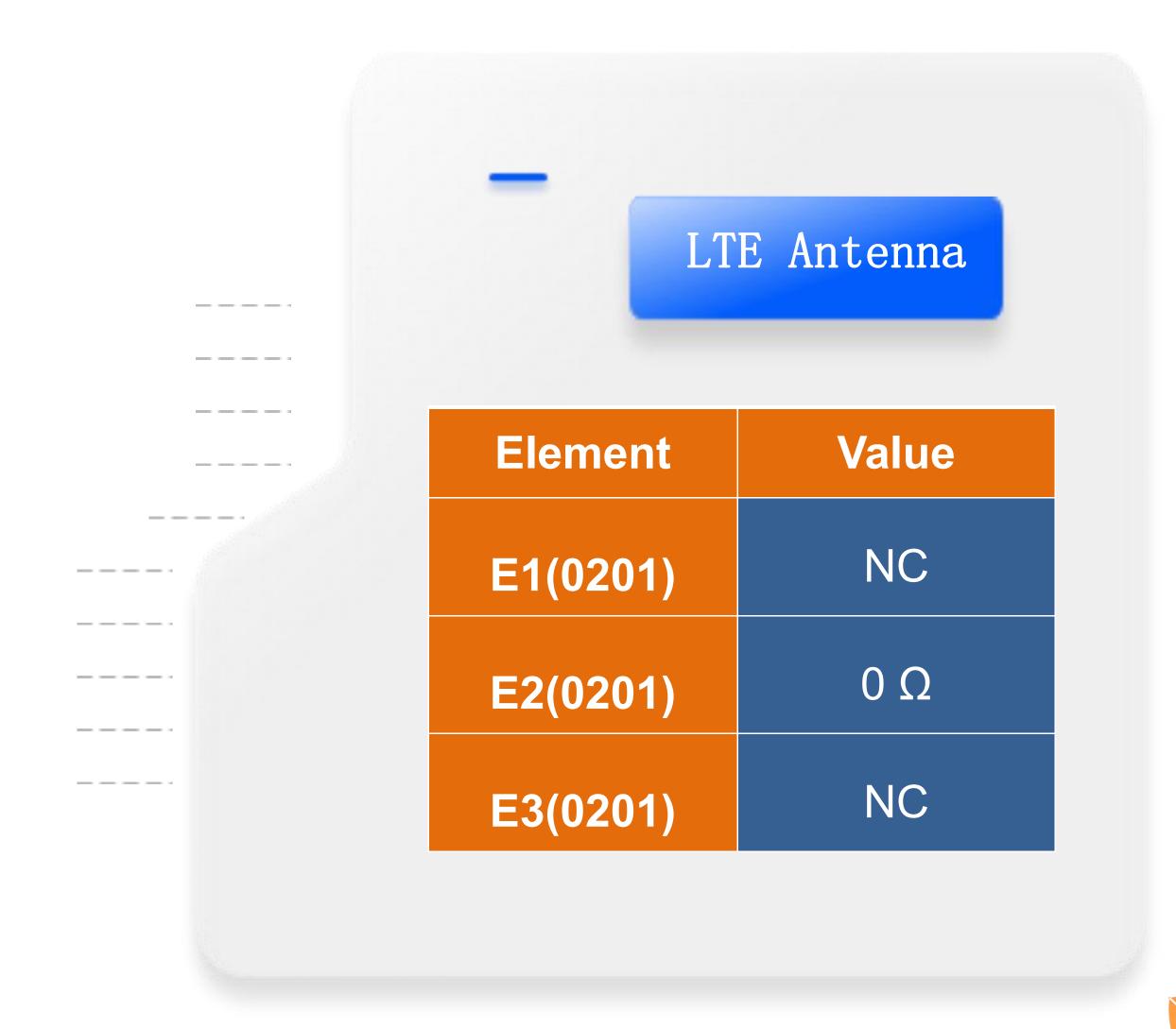






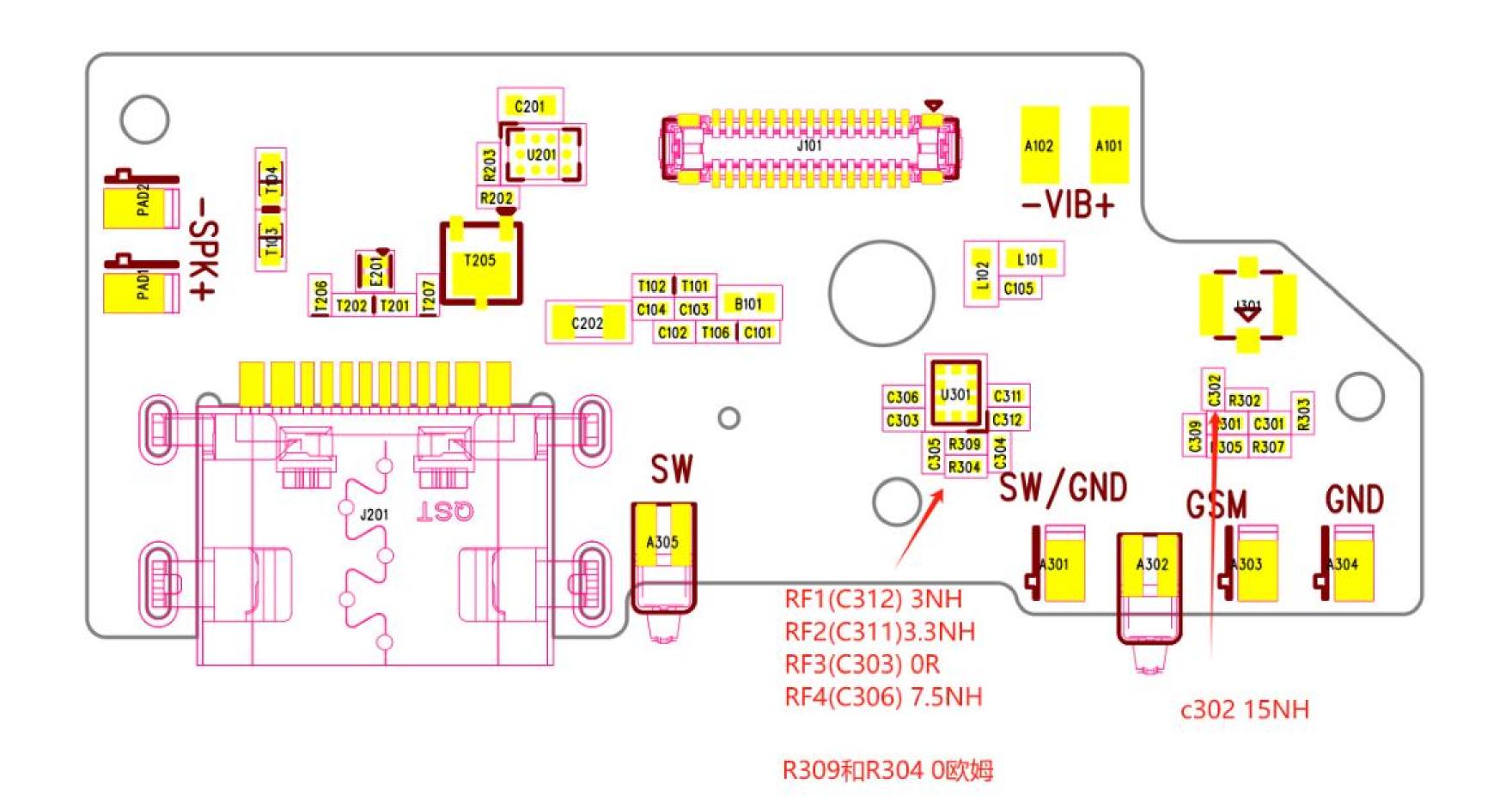






Small plate spring-foot and matching details







Antenna logic in details



S66RFT Antenna logic

RF1=900/W8/B8

RF2=850/W5/B5

RF3=1800/1900 W1/W2/B1/2/3/4/7/66/38

RF=B12/17/28A/B



OTA report (Screen off)



Band	TRP	TIS		Band	TRP	TIS		Band	TRP	TIS	
	22.1				10.0				10 5		
					19. 2				19.5		
GSM850	22.3			W1	18. 7			LTE B1	19		
	22.4	-101.36			18.6	-105. 2			18.8	-92. 2	
	23.1			W2	19. 2				18.5		
GSM900	23.6				18. 5			LTE B2	18.6		
	23.7	-101.01			18.6	-105. 2			18.7	-92. 3	
	24.1				13. 0				18.9		
DCS1800	24.5			W5	13. 2			LTE 3	19. 1		
	24.5	-103.72			13. 4	-104. 2			19	-93. 1	
	24.1			14/0	13. 2			LTE4	19		
PCS1900	24.0			W8	13. 5				18.7		
	23.8	-103.05			13. 5	-104. 1			18.9	-93	

OTA report (Screen off)

Band	TRP	TIS		Band	TRP	TIS		Band	TRP	TIS	
	12.8				12.3				19. 4		
LTE B5	13.5			LTE B17	12.4			LTE B66	19. 3		
	13.6	-89.3			12.7	-87.3		LIL DOO	19. 1	-92. 9	
	16.8			LTE28A	12.2						
LTE B7	16.9				12.4						
	16.6	-90.4			12.5	-87. 4					
1.75.50	13.0				12.4						
LTE B8	13.4			LTE28B	12.5						
	13.8	-90.1			12.7	-87					
LTE D40	12.6				16.4						
LTE B12	12.7			LTE 38	16. 2						
	12.9	-87.6			16. 1	-89					

OTA report (Screen on)

Band	TRP	TIS	Band	TRP	TIS		Band	TRP	TIS	
							LTE B1			
GSM850		-98.5	W1		-102.8				-92.7	
GSM900			W2				LTE B2			
		-101.2			-102.5				-91.6	
DCS1800		400.0	W5				LTE 3			
		-102.3			-100.6				-92.6	
			W8				LTE4			
PCS1900										
		-102.1			-102				-92.1	



OTA report (Screen on)



Band	TRP	TIS	Band	TRP	TIS		Band	TRP	TIS
LTE B5									
			LTE B17				LTE B66		
		-89.2			-85.3				-91.5
LTE B7			LTE28A						
		-87.2			-85.5				
LTE B8			LTE28B						
		-87.3			-86				
LTC D40									
LTE B12			LTE 38						
		-85.1			-87.2				



Conduction data

Band	TRP	TIS		Band	TRP	TIS		Band	TRP	TIS	
	31.2				22.4				22		
GSM850	31.5			W1	22.6			LTE B1	22.1		
	31.7	-107.5			22.5	-108.5			22.3	-98	
31	31.4			W2	22.3			LTE B2	22.3		
GSM900	31.8				22.4				22		
	31.6	-107.8			22.1	-108.5			22.1	-98	
	29.4				22.6				22.1		
DCS1800	29.5			W5	22.7			LTE 3	22.3		
	29.8	-108			22.4	-108			22.4	-98	
	29.6			W8	22.6			LTE4	22		
PCS1900	29.6			VVO	22.8				22.1		
	29.5	-108.3			22.4	-108.5			22	-98	





Conduction data



Band	TRP	TIS	Band	TRP	TIS		Band	TRP	TIS	
ITC DE	22.4			22.6				22.1		
LTE B5	22.6		LTE B17	22.7			LTE B66	22		
	22.5	-98		22.4	-97			22.1	-97.5	
ITC D7	22.1			23						
LTE B7	22		LTE28A	22.8						
	22.2	-97		22.9	-97					
	22.4			22.6						
LTE B8	22.5		LTE28B	22.9						
	22.3	-96		22.8	-97					
LTC D40	22.3	LTE 20	22.1							
LTE B12	22.4		LTE 38	22.2						
	22.5	-97		22	-94					



Antenna Gain

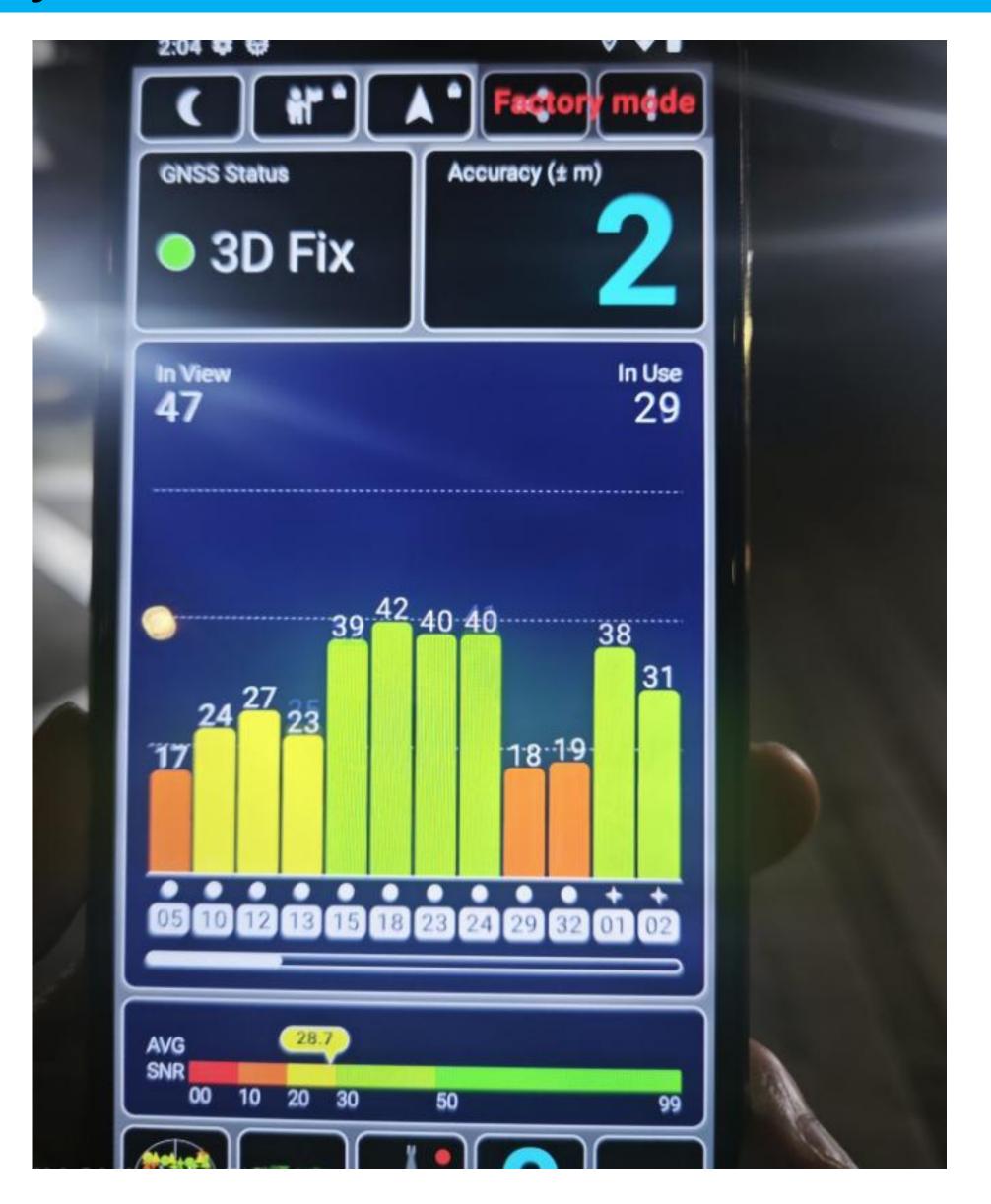
S66RFT-L65A 2024 Antenna Gain									
Band	Gain (dBi)	Band	Gain (dBi)						
GSM B2	0. 1	W B1	0. 1						
В3	0.4	W B2	0.33						
B5	-0.7	W B5	-0.7						
B8	-0.8	W B8	-0.8						
LTE B2	0.33	GPS	0.6						
В3	0.4	2. 4GWIFI	0.9						
B4	0. 25	BT	0.9						
B5	-0.7								
B7	0.67								
B8	-0.8								
B12	-1.12								
B17	-1. 16								
B28AB	-1.21								
B38	0.67								
B66	0.25								





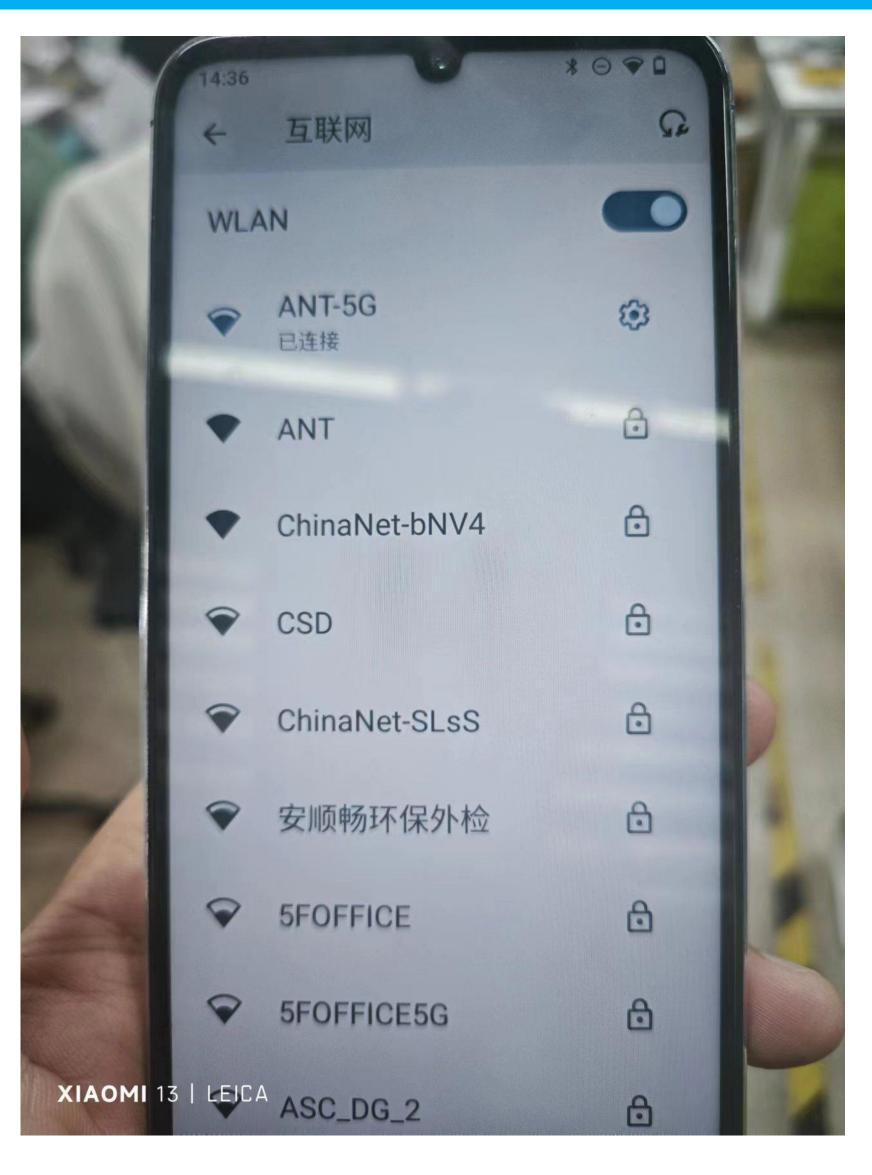
GPS measurement is measured on the first floor of our company, with 29 stars and more than 3 stable 40







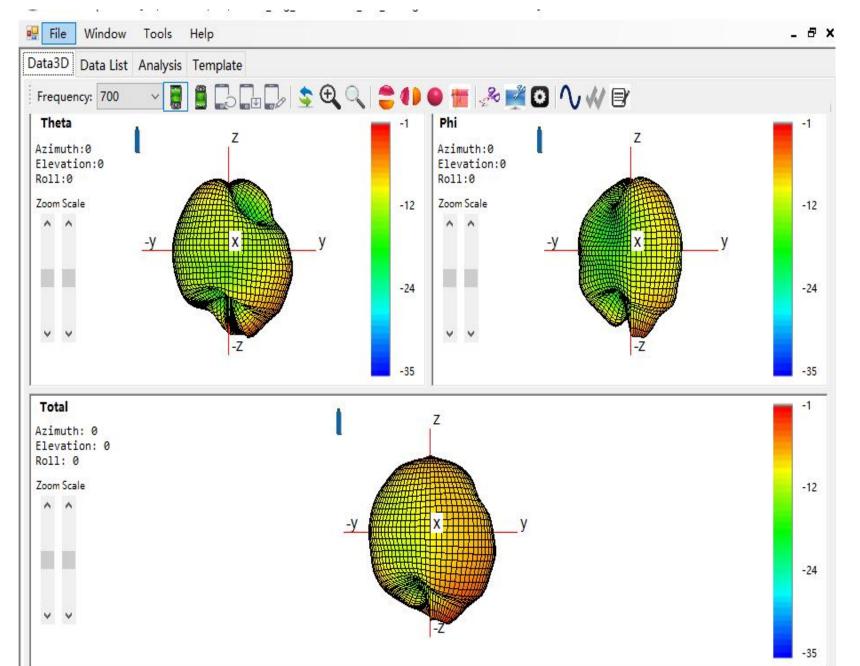
The signal value 10 meters away from our router

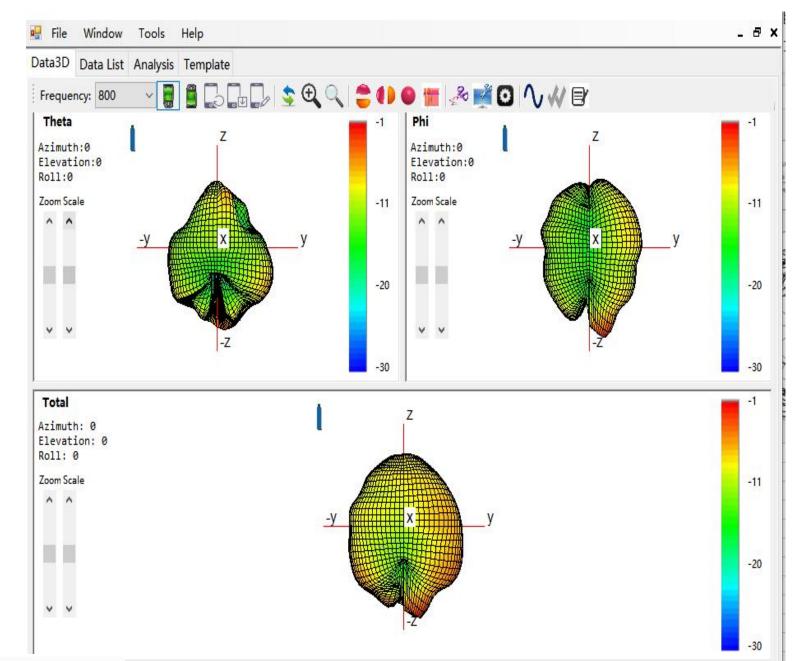


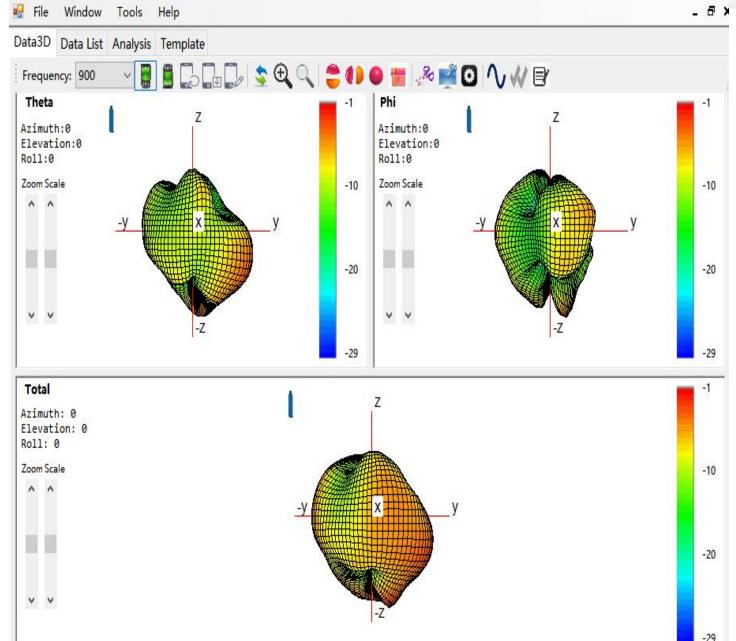




Main Antenna 3D Drawing

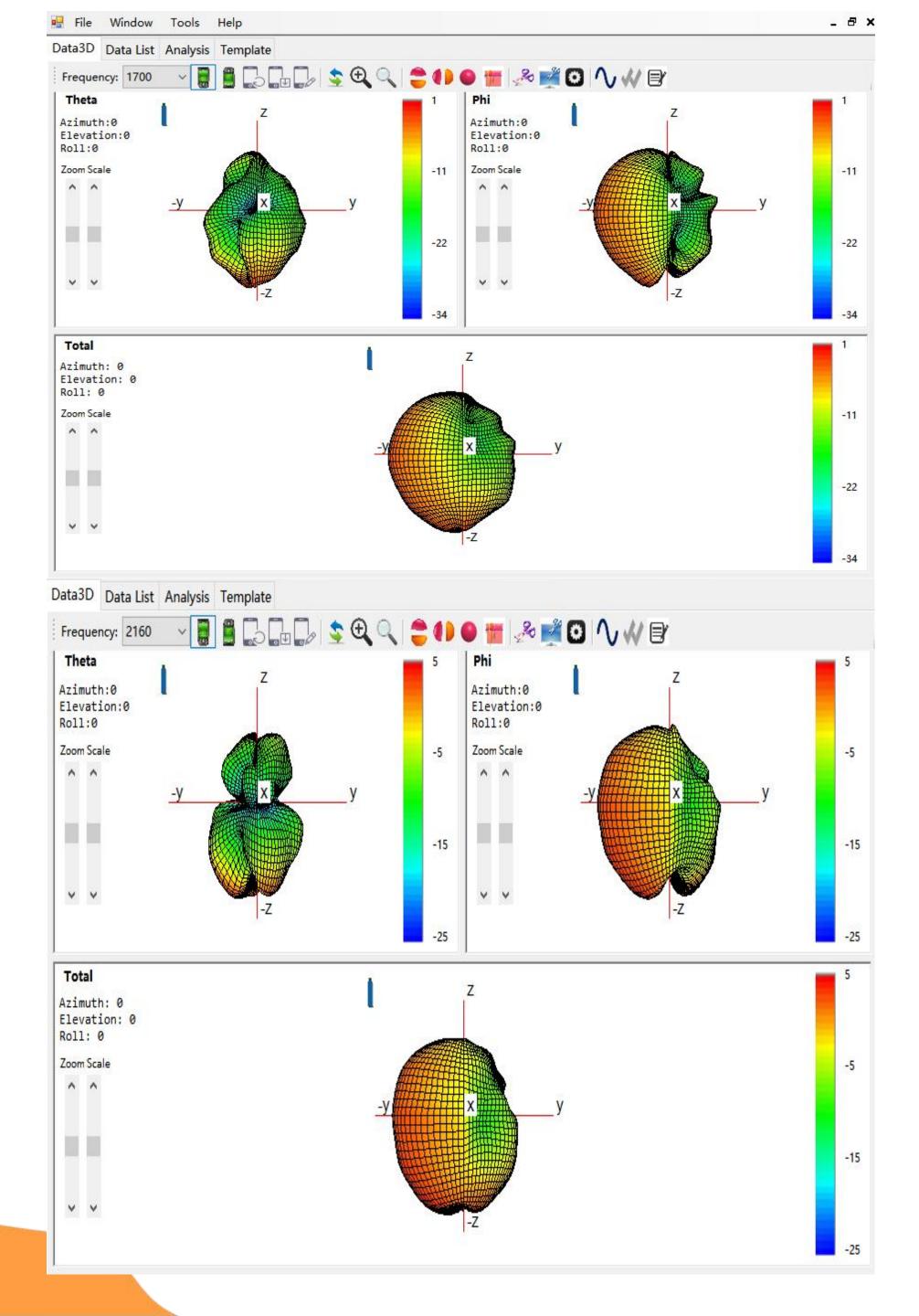


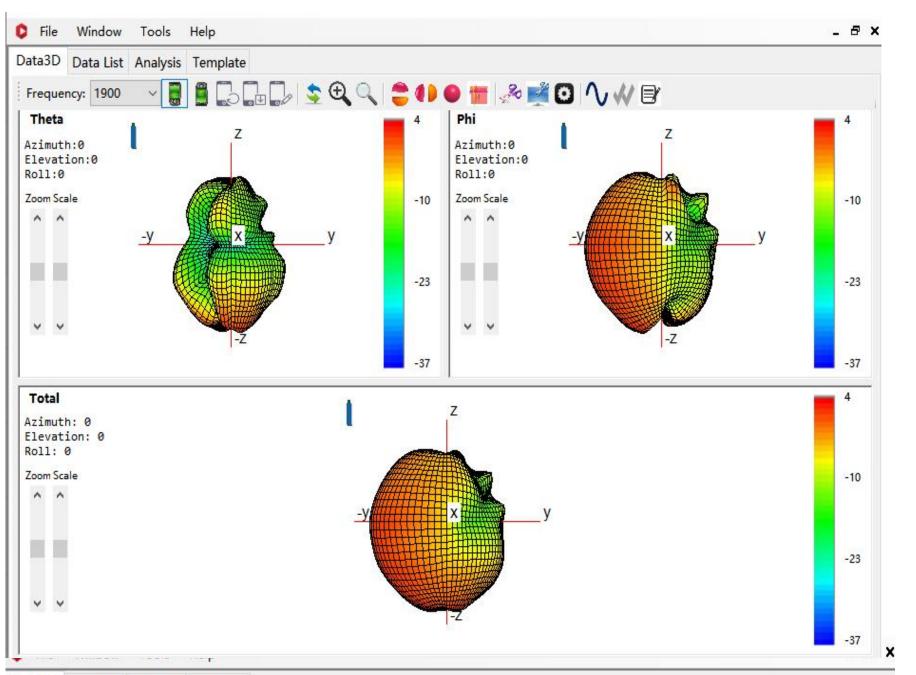


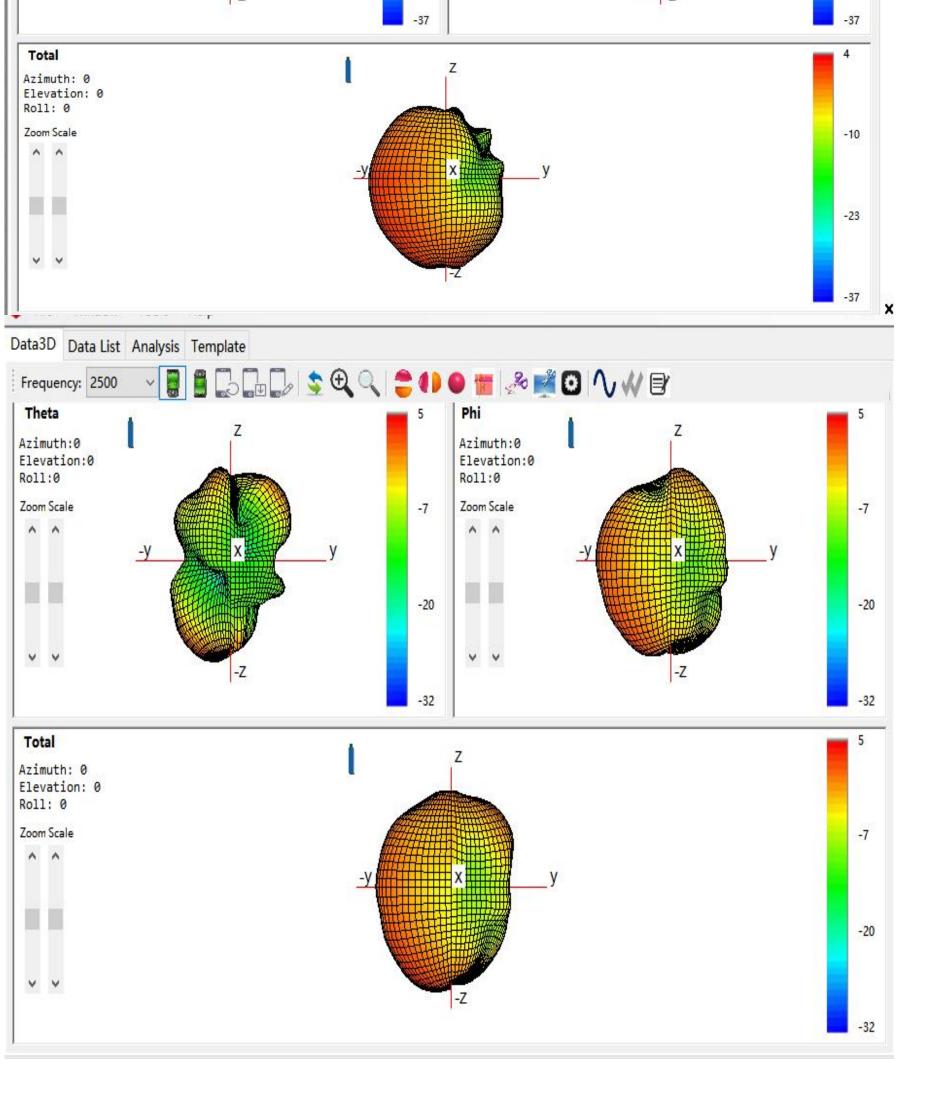








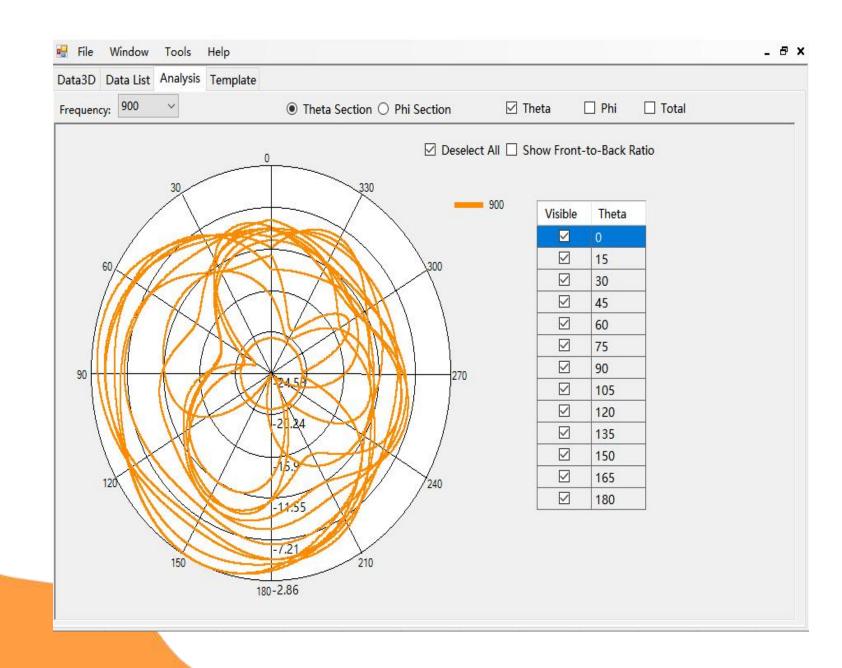




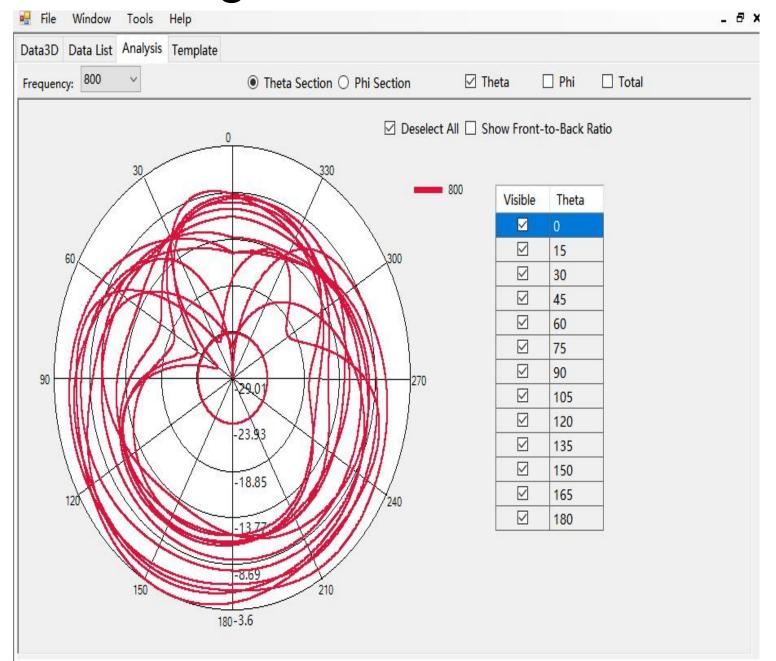


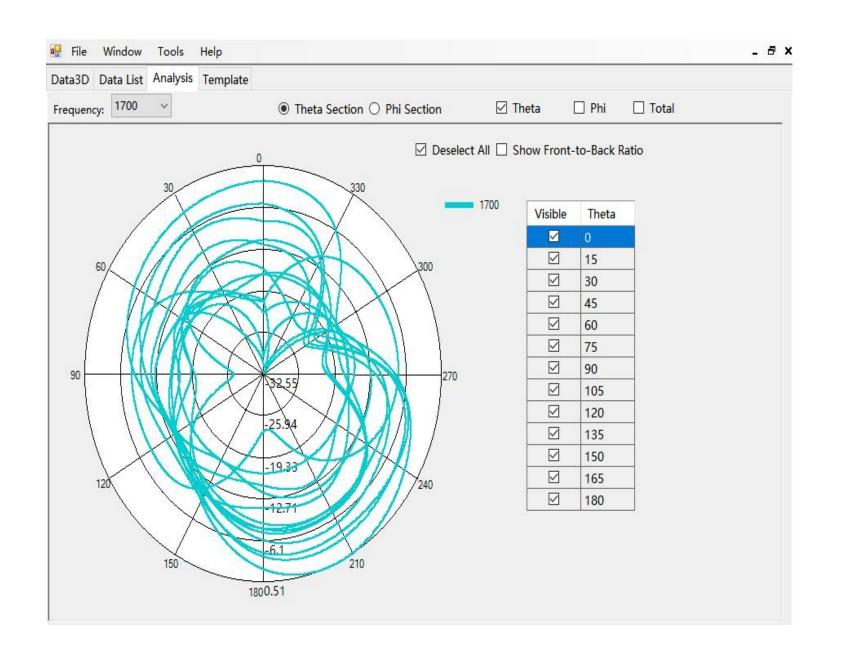


🖳 File Window Tools Help _ 8 × Data3D Data List Analysis Template Frequency: 700 V ● Theta Section ○ Phi Section ☑ Theta ☐ Phi ☐ Total ☑ Deselect All ☐ Show Front-to-Back Ratio Visible Theta ☑ 45 ☑ 60 ☑ 75 ☑ 90 ☑ 105 ☑ 120 ☑ 135 ☑ 150 ☑ 165 ☑ 180



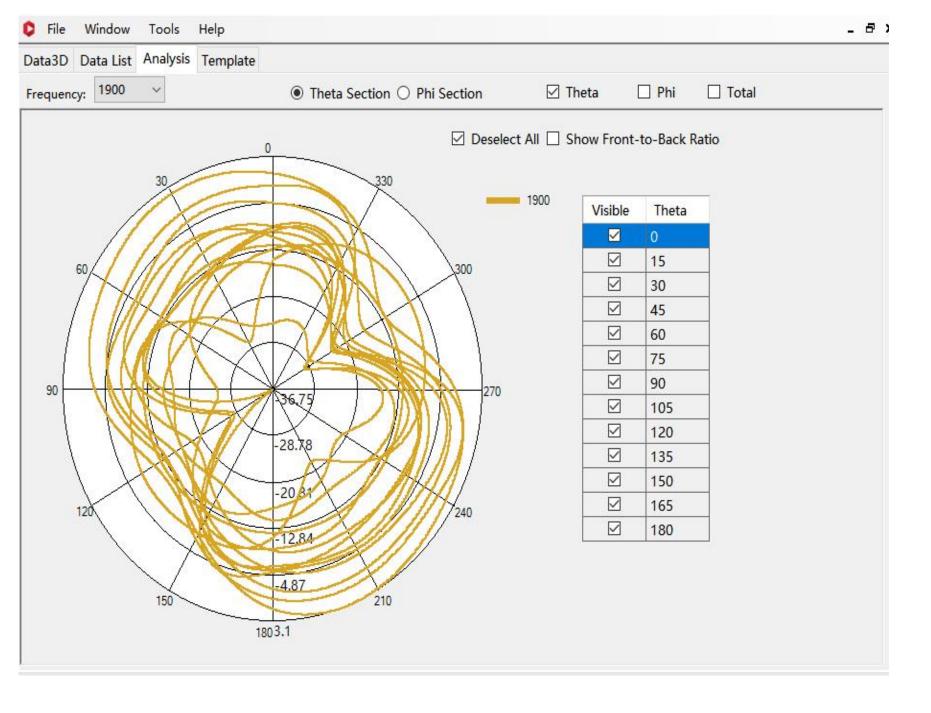
Main Antenna 2D Drawing

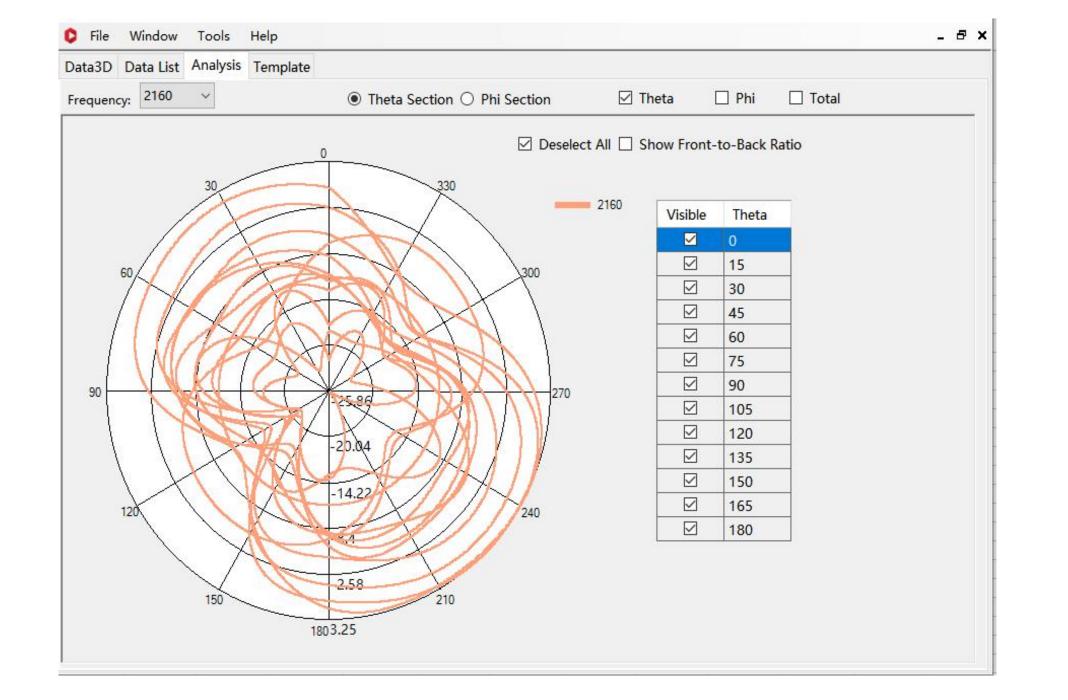


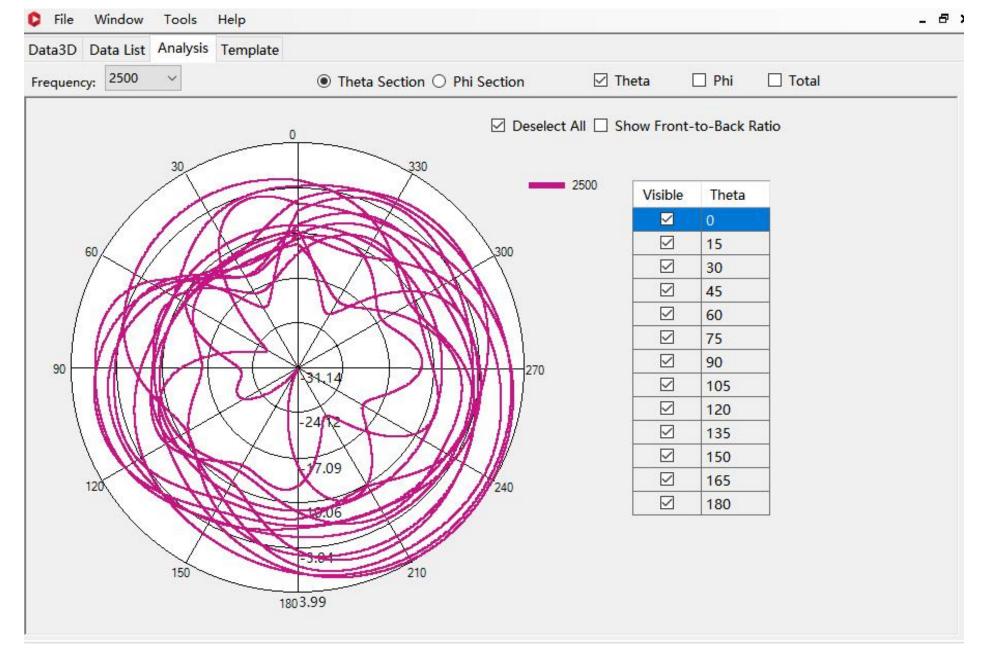










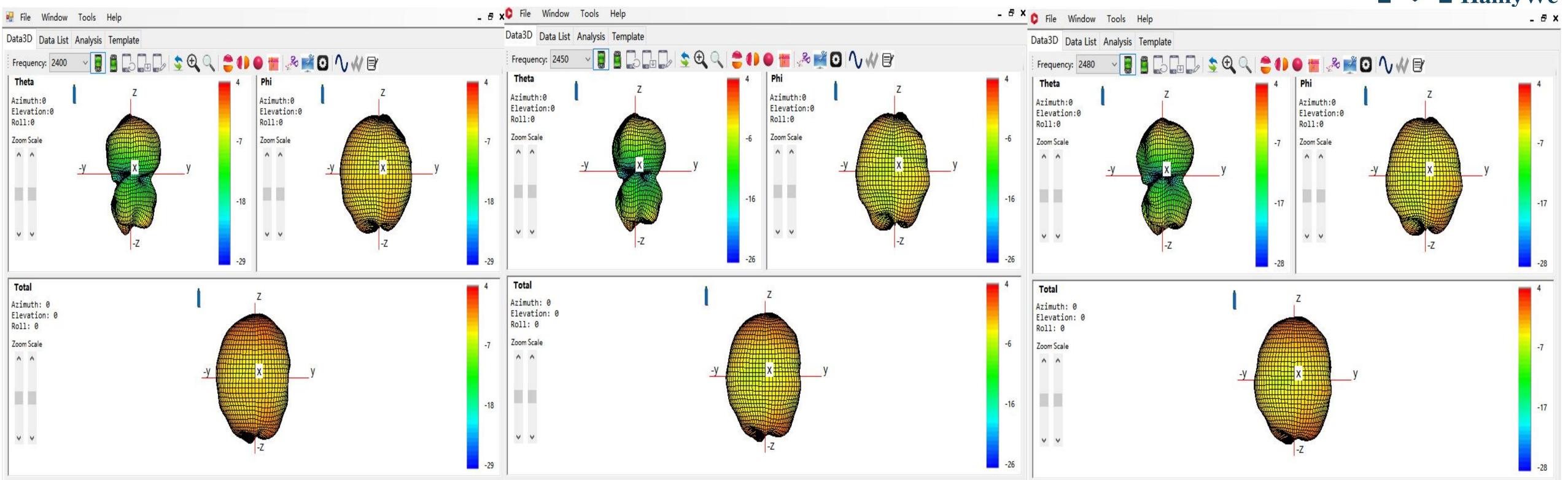






2.4WIFI 3D Drawing

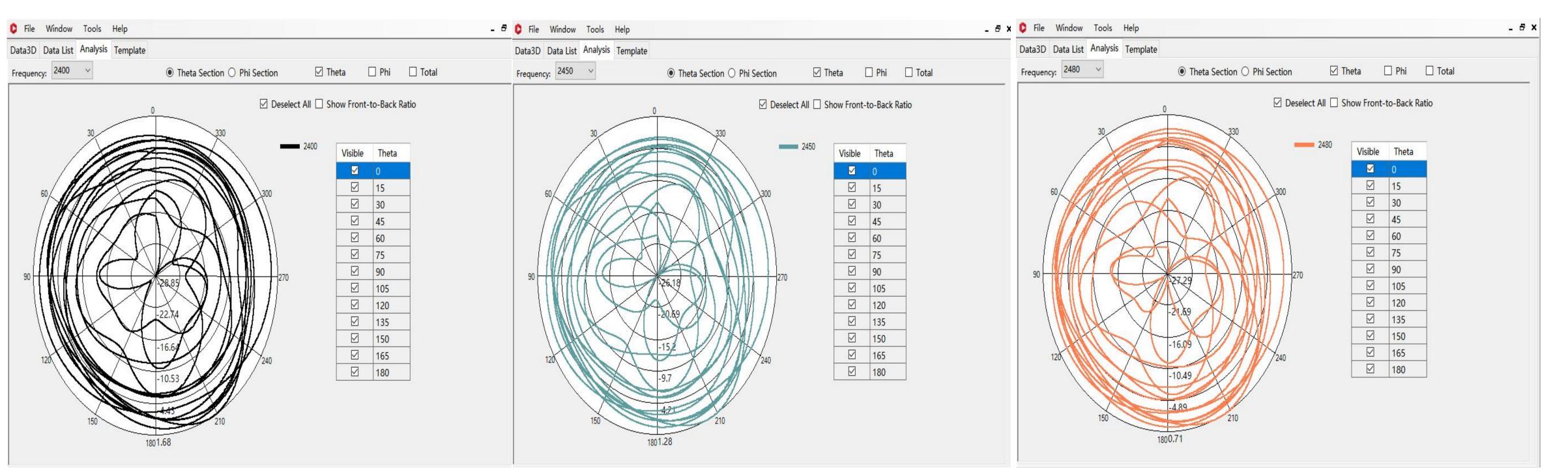






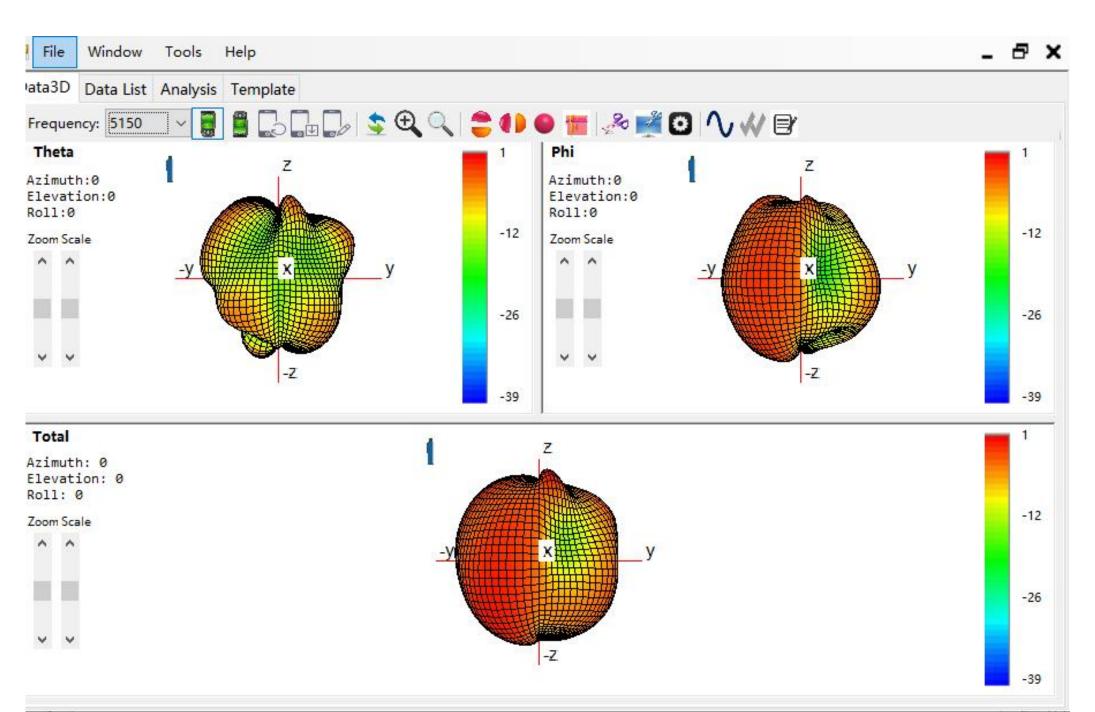
2.4WIFI 2D Drawing

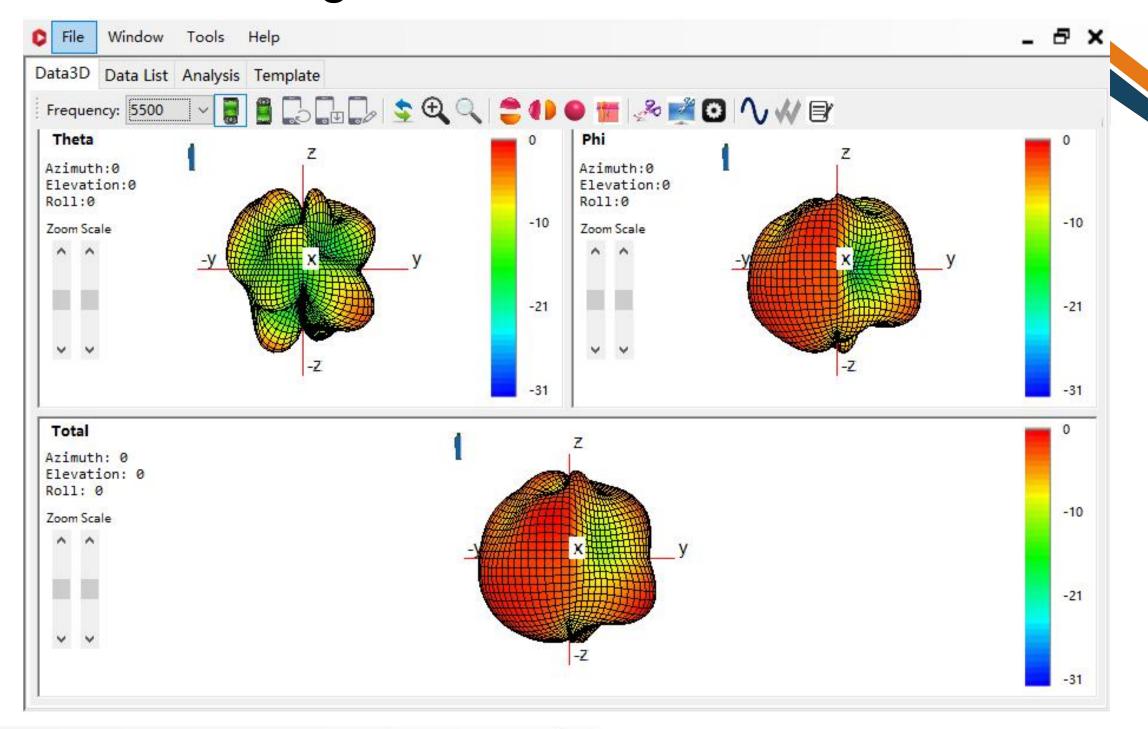


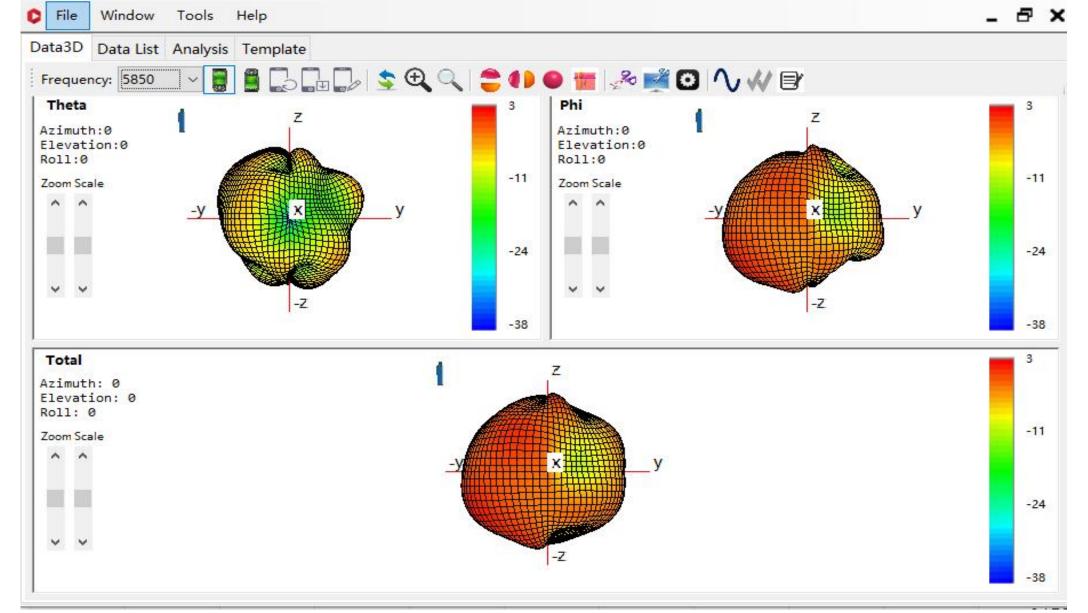




5.8G WIFI 3D Drawing





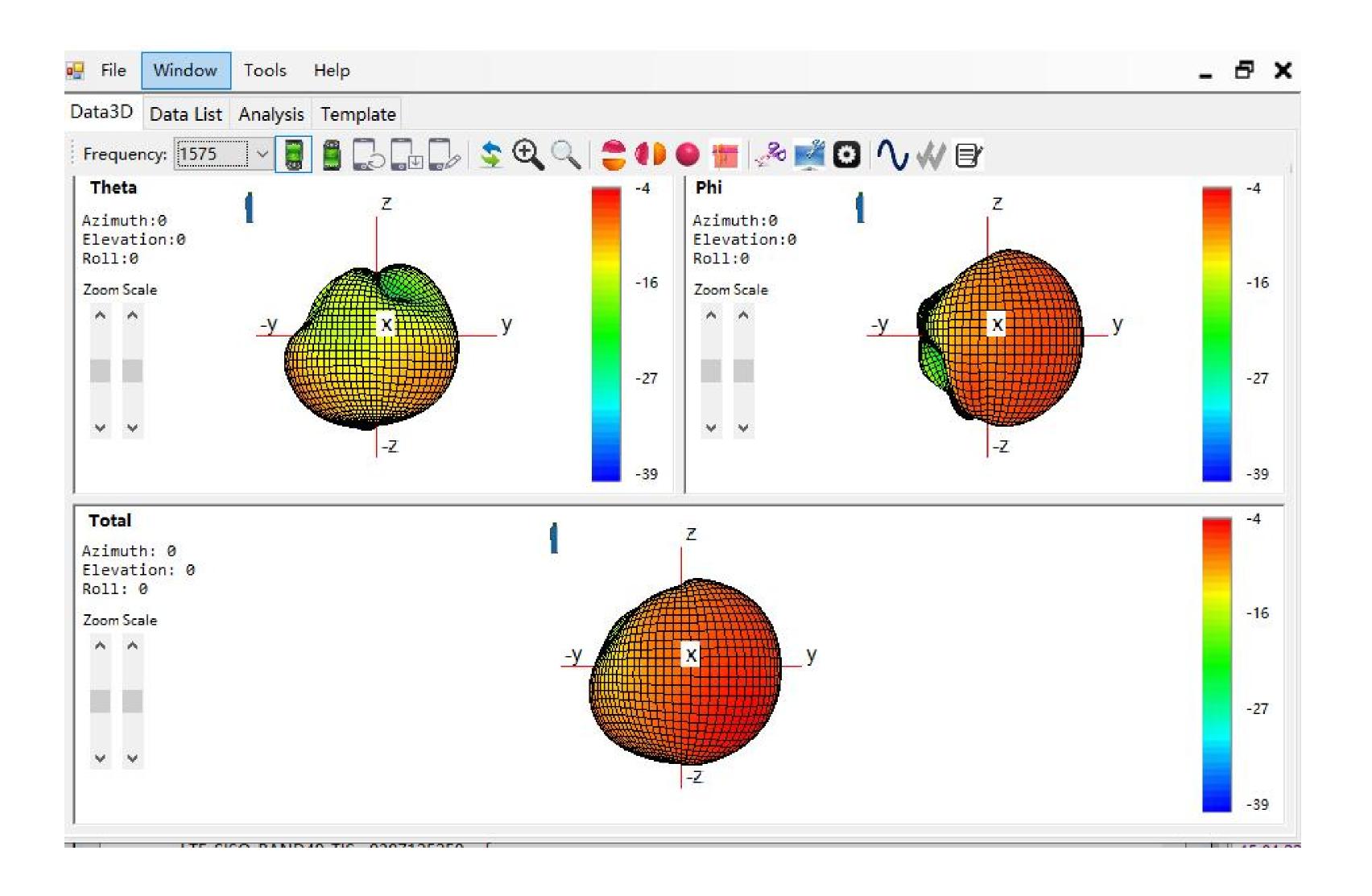




和鸣微 HamyWe

GPS 3D Drawing

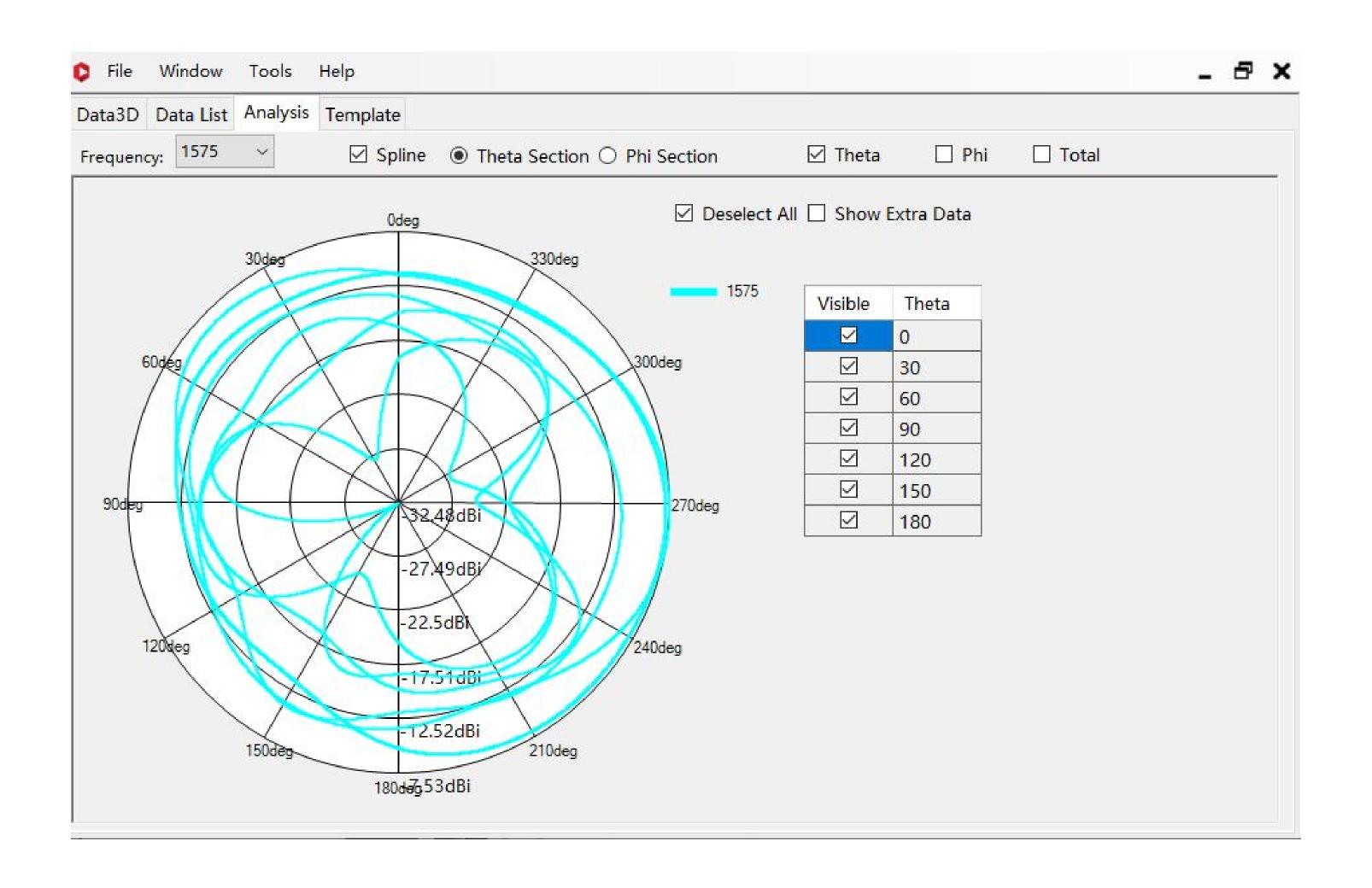






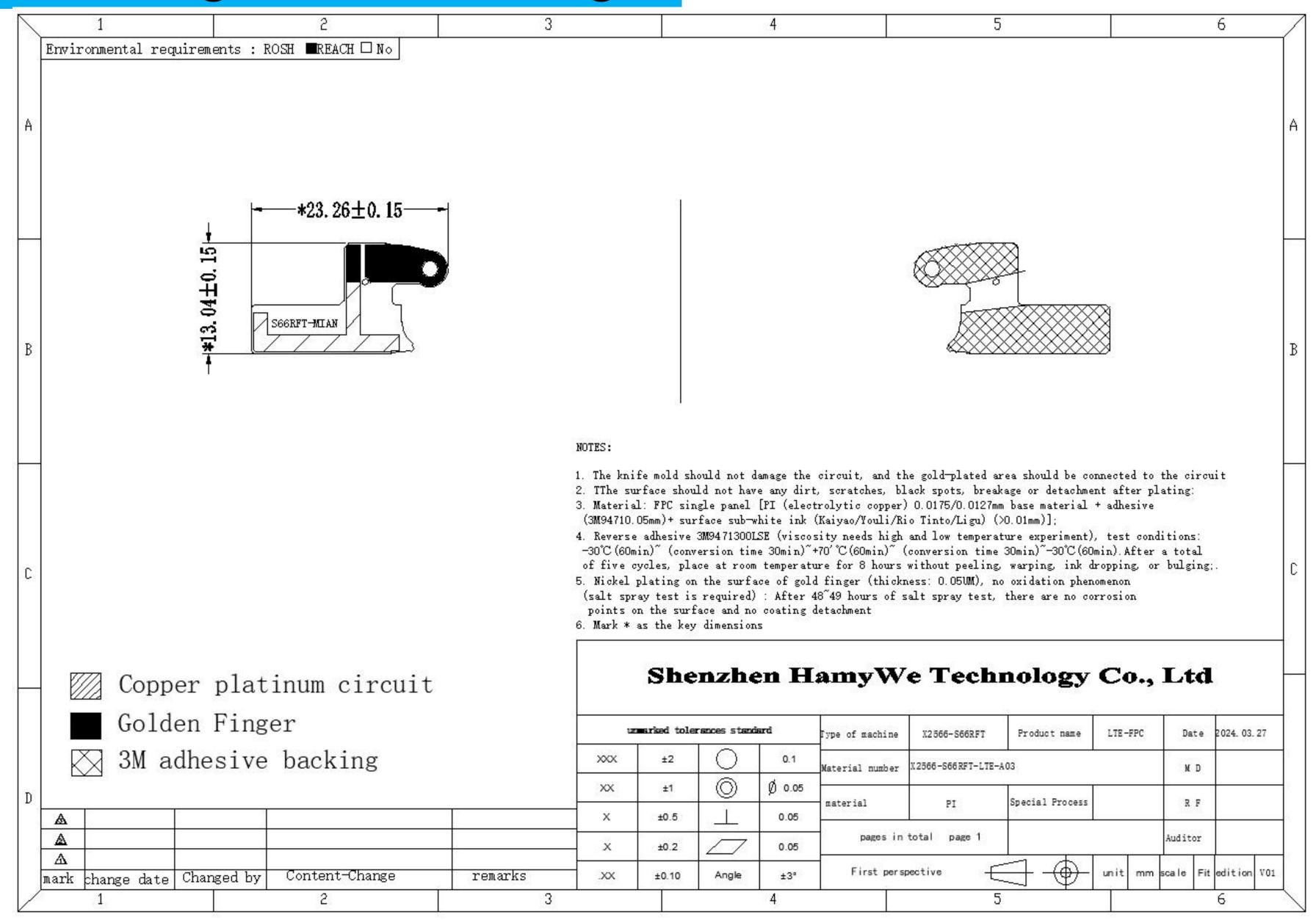
GPS 2D Drawing







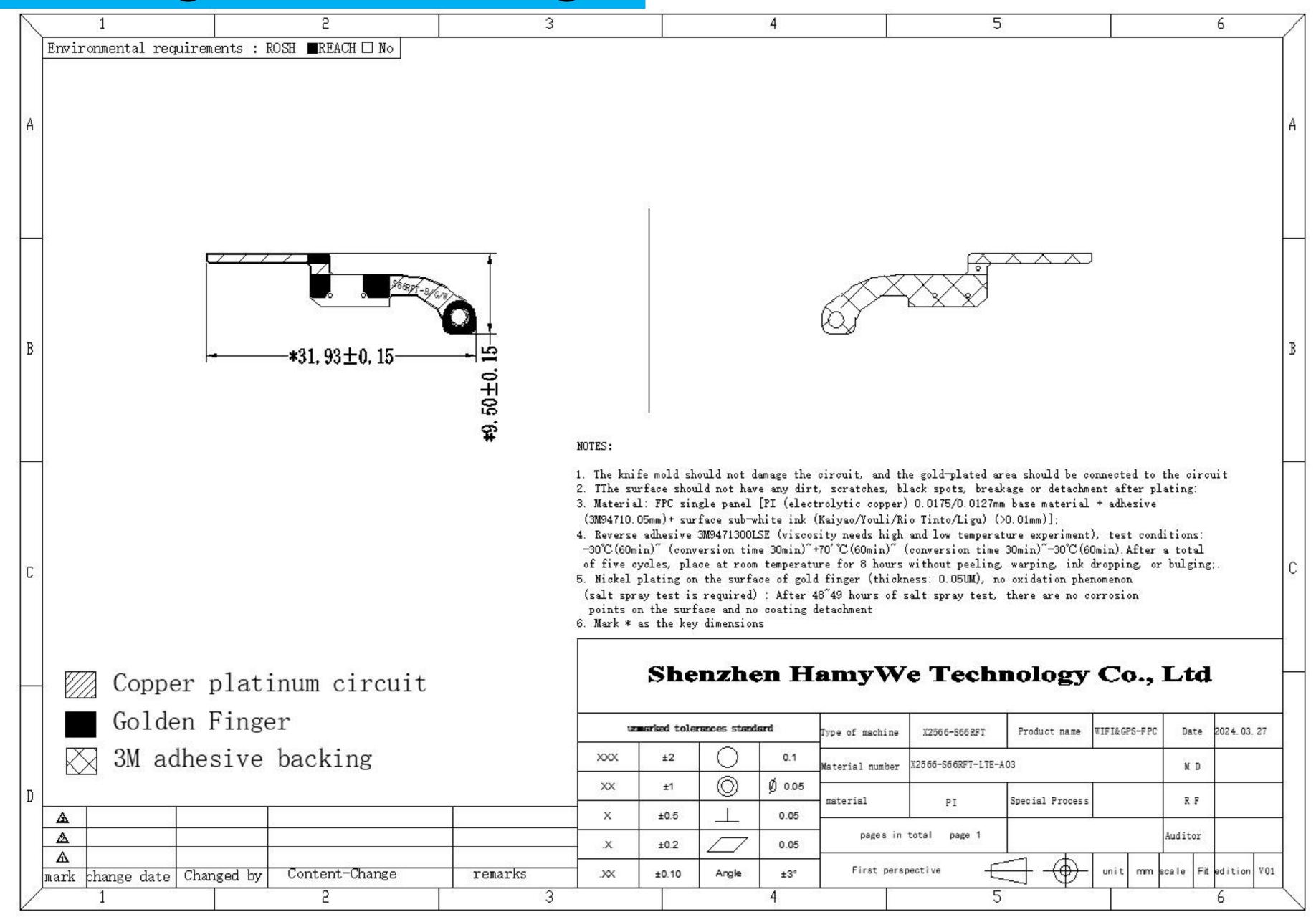
Antenna Engineer drawing







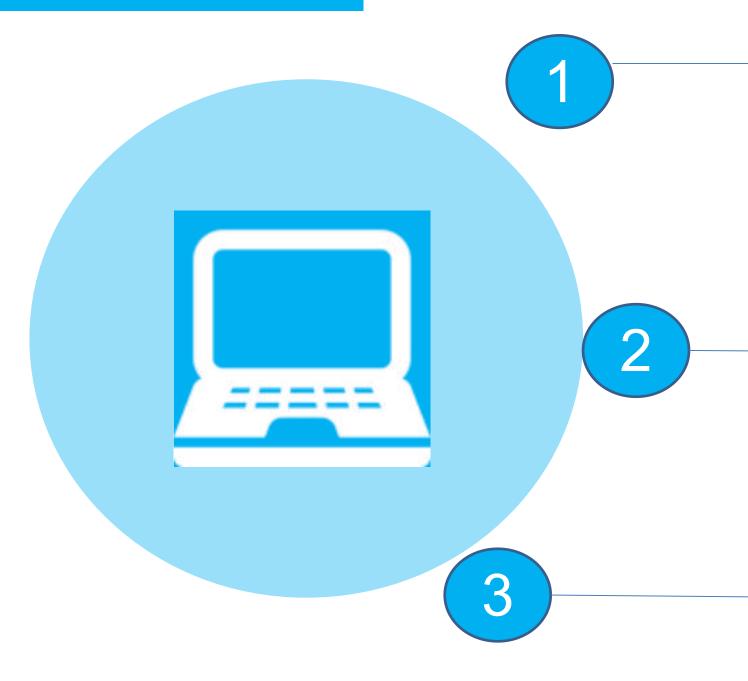
Antenna Engineer drawing







Important Instruction



Please pay attention to whether the matching in the report has changed and whether the environmental treatment is feasible; This will directly affect the antenna performance, if you have any objections, please contact us in time;



If your machine has replacement materials, updated software, environmental processing changes, etc., you must provide the latest status of the machine to our company for verification in time;

If your machine needs to be sent to a third party for verification or inspection, it is best to provide the test machine to our company to test and verify OK before sending it for testing (because the consistency of the motherboard, environmental treatment, antenna assembly and so on will affect the antenna deviation).



Phone: 0755-3688170

Add:1st floor, Building B, Jinghang Industrial

Park, Liu xian 2nd Road, District71, Bao'an, Shenzhen

