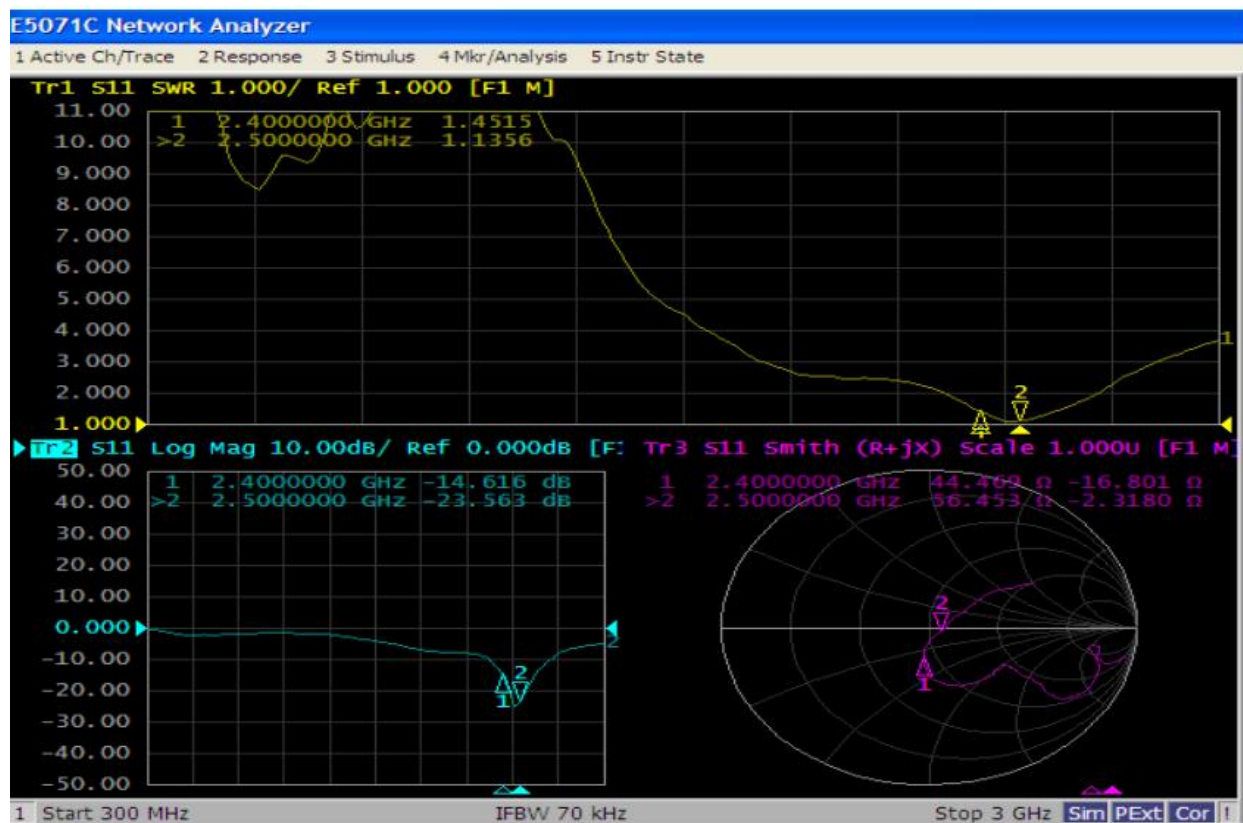


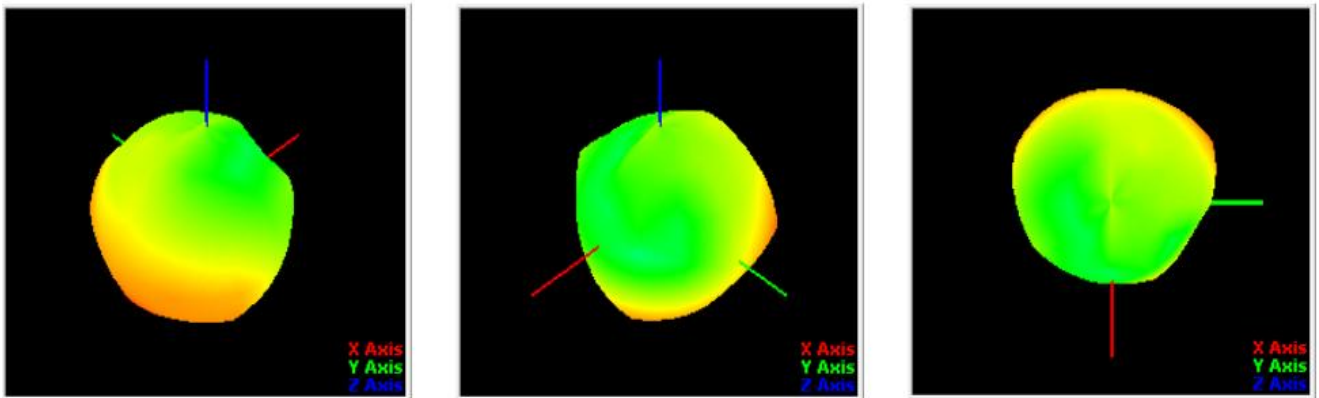
2.2.2 BT antenna (file LOGMAG + VSWR + SMITH)



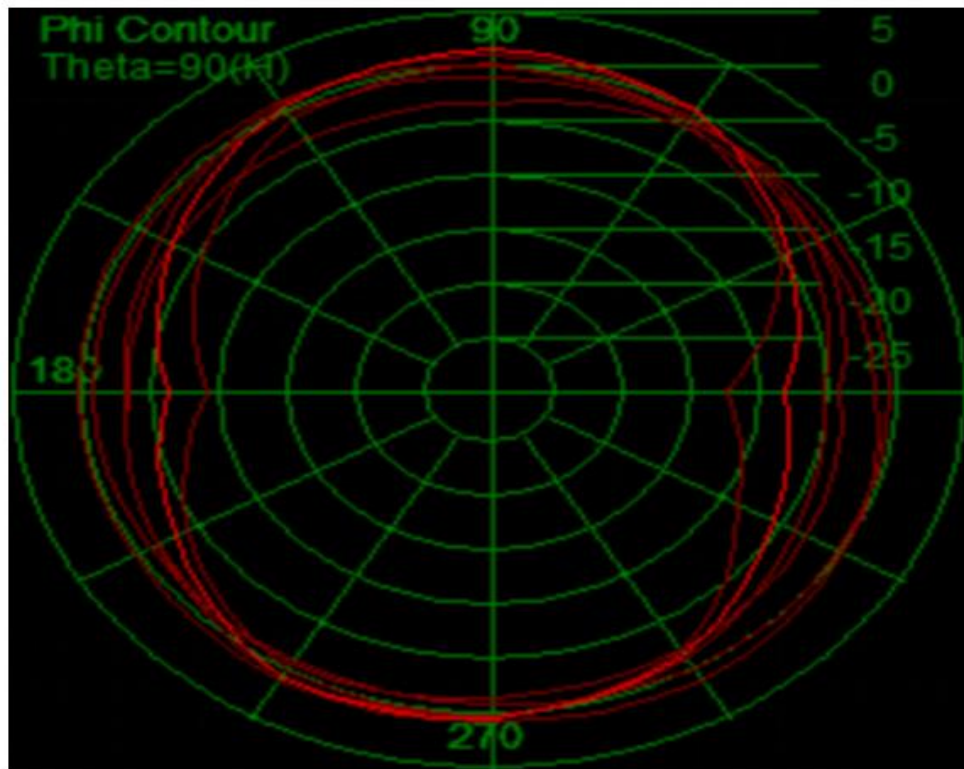
2.2.3 BT-antenna efficiency and gain

Passive Test For 2400MHz~2500MHz				
Freq	Effi	Effi	Gain	
(MHz)	(%)	(dB)	(dBi)	
2400	49.1%	-3.09	1.42	
2410	50.3%	-2.98	1.49	
2420	50.5%	-2.97	1.58	
2430	51.0%	-2.92	1.71	
2440	51.3%	-2.90	1.92	
2450	51.9%	-2.85	2.13	
2460	51.5%	-2.88	1.98	
2470	51.1%	-2.92	1.89	
2480	50.7%	-2.95	1.78	
2490	49.9%	-3.02	1.62	
2500	49.4%	-3.06	1.48	

2.2.4 Radiation Pattern For BT Antenna (2450 MHz) peak Gain:2.13dbi



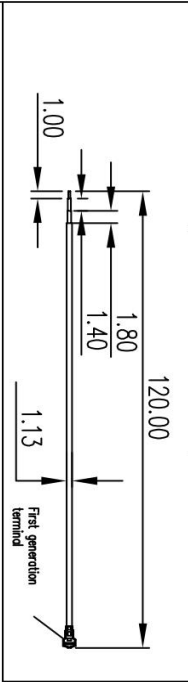
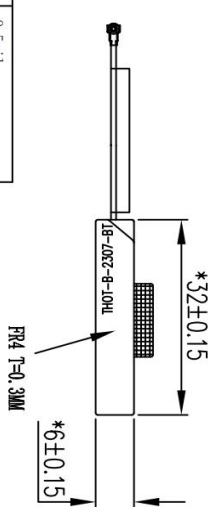
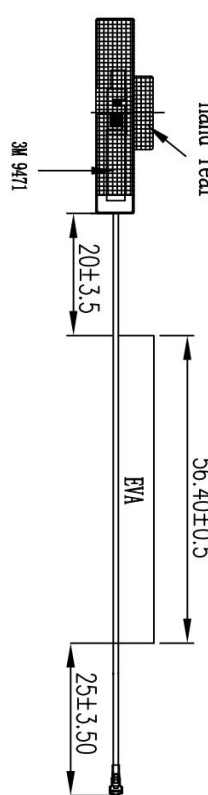
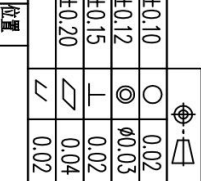
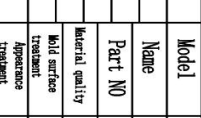
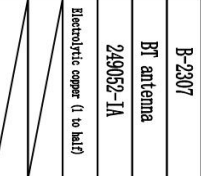
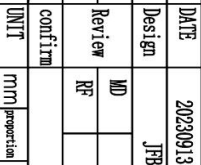
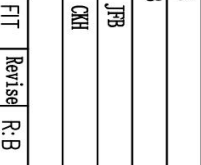
2.2.5 Antenna passive parameters-BT direction diagram



2.2.6 Active parameters of BT antenna

Test	BT		
Result	1	39	78
TRP (dBm)	3.67	3.88	3.75
TIS (dBm)	-89.14	-89.42	-89.27

3. structural drawings

1	2	3	4	5	6	7	8
							
							
skills requirement:							
1.FPC substrate specifications:		PI substrate:		0.5mm1			
		Electrolytic copper:		0.5oz (ED)			
		Double-sided tape:		3M-9471LSE			
2. Electroplating specifications:		Nickel plated:		38um			
		Surface ink color:		Matt black			
3. Surface ink requirements:		Printing font color:		WIPHE			
		Printing font height:		According to drawings			
4. Reliability requirements:		1. Reliability test: salt spray test\rubber friction test\alcohol resistance test\100 grid test. 2. The front ink, the surface of the ink is required to be folded in half without cracking, scratching, etc.					
5. Tolerance requirements:		1. Shape tolerance ±0.10; 2. Copper foil circuit tolerance ±0.05; 3. The position of the copper foil to the shape is ±0.15; 4. Hole-to-hole position tolerance ±0.10; hole-to-shape position tolerance ±0.15; 5. The size tolerance of gold finger is ±0.20. 6. For other unmarked dimensions, refer to 2D drawings.					
6. Key control size:		The dimensions marked with numbers are regarded as important dimensions, and the others refer to 2D drawings					
7. Environmental requirements:		Parts meet RH82.0/HF/Reach/SP environmental protection requirements					
8. Packaging requirements:		Packed in PE bags, the quantity of each bag is 100PCS, there is a mark on the outside of the bag					
DATE		Modify the content		Version		Revise	
1	2	3	4	5	6	7	8
							
							
							
							
							
Shenzhen Yu Sheng Communication Equipment Co., Ltd.							
Model		B-2307		DATE		20230913	
Name		BT antenna		Design		JTB	
Part NO		249052-1A		Review		MD	
Material quality		Electrolytic copper (1 to half)		RF		CXH	
Mold surface treatment				confirm			
Appearance treatment				UNIT		mm	
				proportion		FIT	
				Revise		R:B	
						8	