

Parts Approval Sheet

Supplier: Guozhi XinParts Name: FPC ANTType/Spec: BP75Parts No: NQI-BP75-BT-FB-V0Brand: NQIQuantity: Send out Date: 2025/05/26Document No: NQI-RD-SPEC-20250536Approve Date: Version: V0

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catalogue

一. Samples and Instructions.....	4
二. Testing equipment and projects.....	4-6
三. Darkroom connection and coordinates.....	6
四. Antenna matching network.....	6
五. Antenna electrical performance test data.....	7-11
六. Antenna structure drawing.....	12
七. Key Dimension Inspection Report.....	13

一. Samples and Instructions

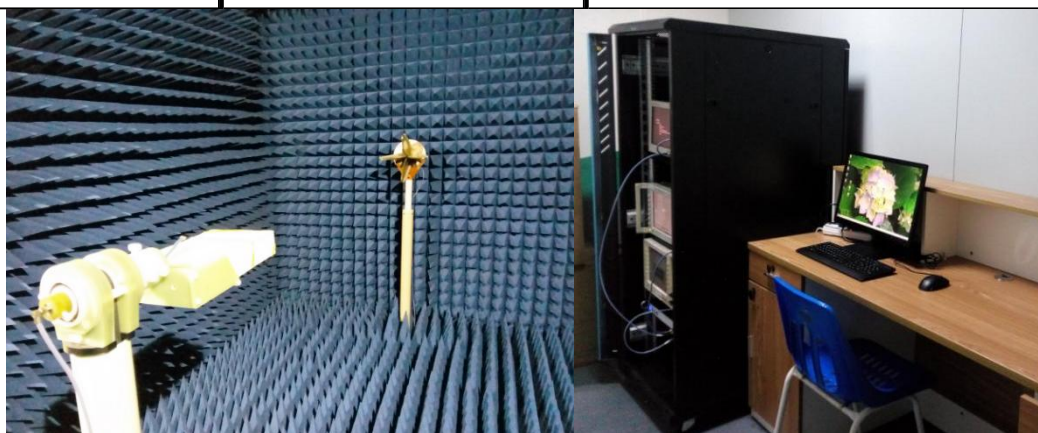


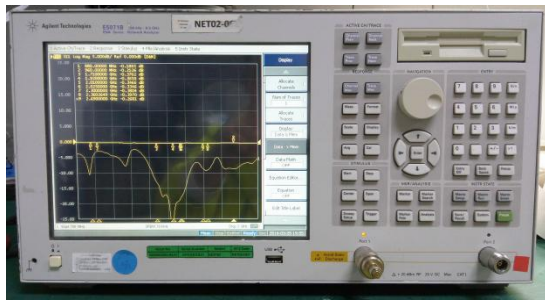
(Electrical Specifications)	
(Frequency range)	(2400-2500)MHz
(impedance)	50 ohm
(VSWR)	≤ 2
(Gain)	-0.2DBi
(Polarization)	level
(Radiation direction)	omnibearing
(Connection Mode Description)	
(connector)	/
(Cable specifications)	/
(Working/Storage temperature)	
(Working temperature)	-30℃~65℃
(Storage temperature)	-30℃~75℃

二. Testing equipment and projects

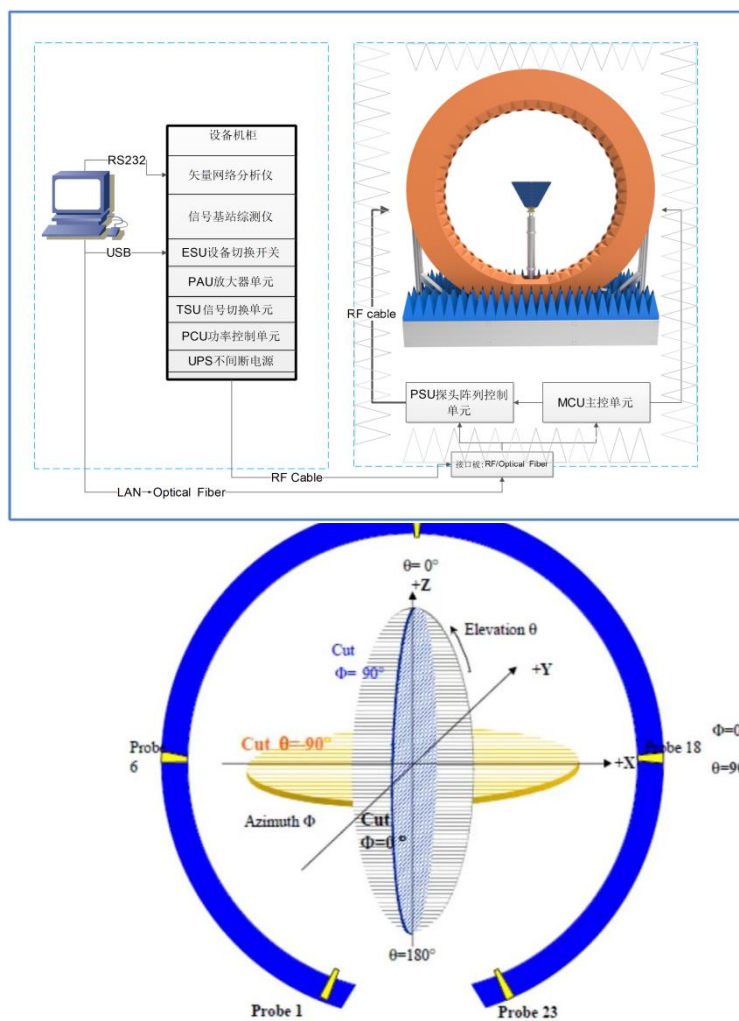
Class	Test item	Equipment
1. S parameter	1. RL 2. VSWR 3. Smith chart	VNA: Agilent E5071B R&S ZVB8 Protek A333
2. Coupling testing)	1. MAX Power 2. MIN Sens	1.2G/3G Tester: Agilent 8960 2.The coupling box: TESCOM TC-5060A 3. 3D Chamber: ETS 3D Chamber (5x3x3)

3. Passive Test	1. Efficiency 2. Gain 3. Radiation pattern	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS 3D Chamber (5x3x3) 2. VNA: Agilent E5071B R&S ZVB8
4. Active Test	1. 3D TRP 2. 3D TIS 3. Throughput rate	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS 3D Chamber (5x3x3) 2. 2G/3G Tester: Agilent 8960 3. 4G Tester: MT8820C/CMW500 4. WIFI/BT/NB-iot Tester: CMW500 5. 5G Tester: SP9500-CTS 6. Head: HEAD-P10 (FACE-P10)

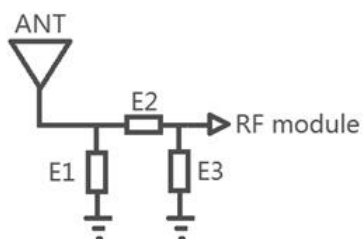




三. Darkroom connection and coordinates



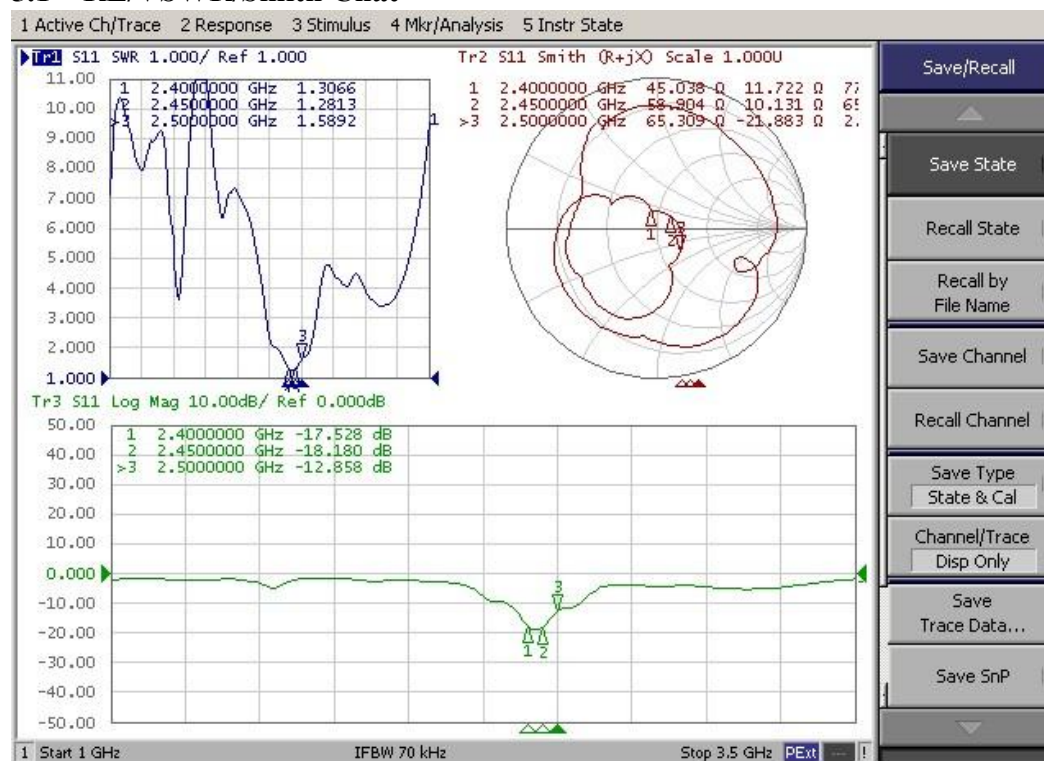
四. Antenna matching network



Element	L (Value)	R (Value)
E1(0201)	NC	NC
E2(0201)	0 Ω	0 Ω
E3(0201)	NC	NC

五. Antenna electrical performance test data

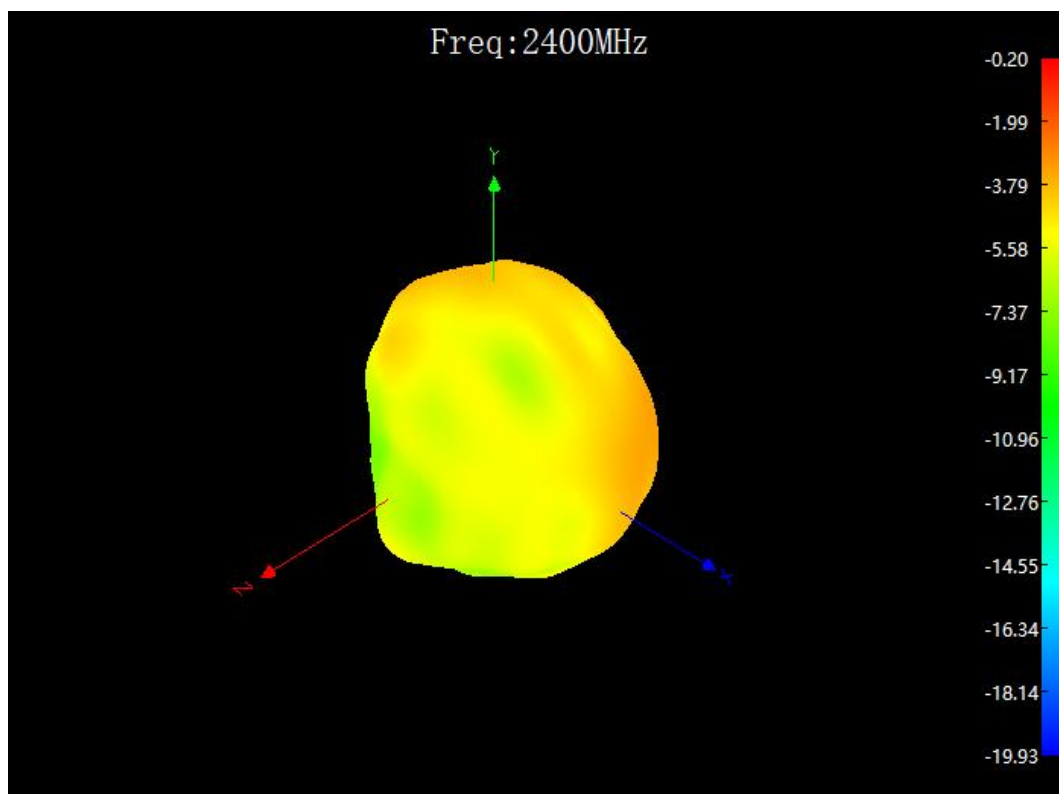
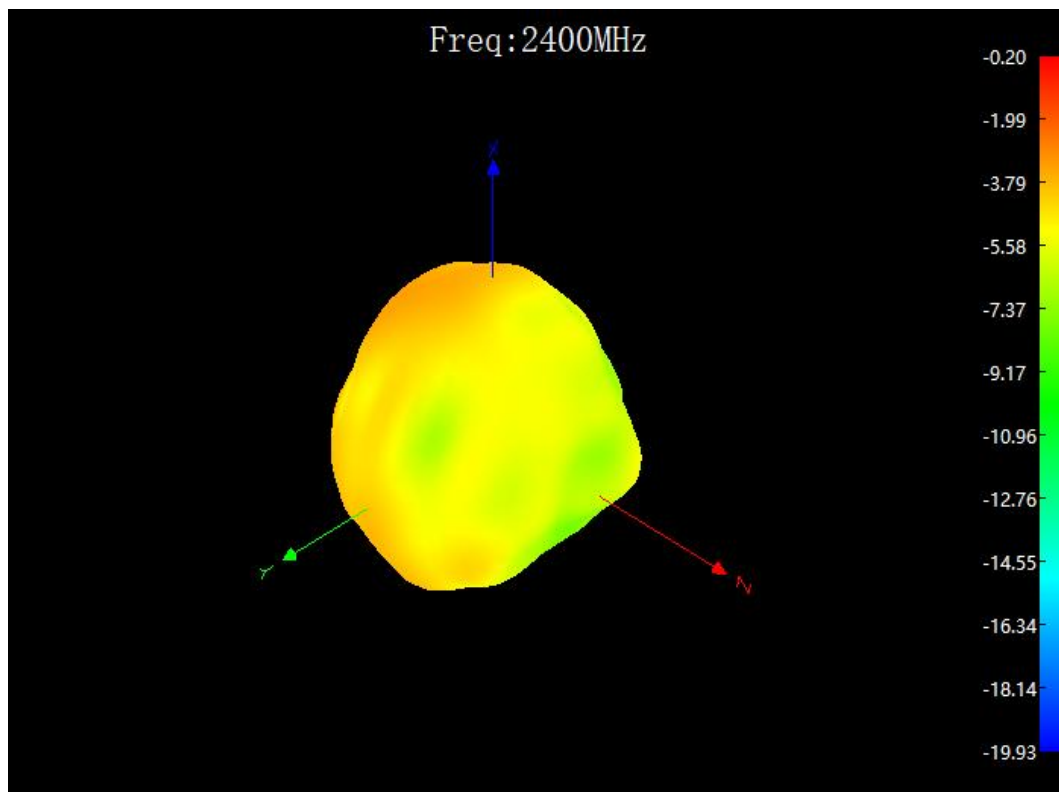
5.1 RL/VSWR/Smith Chat

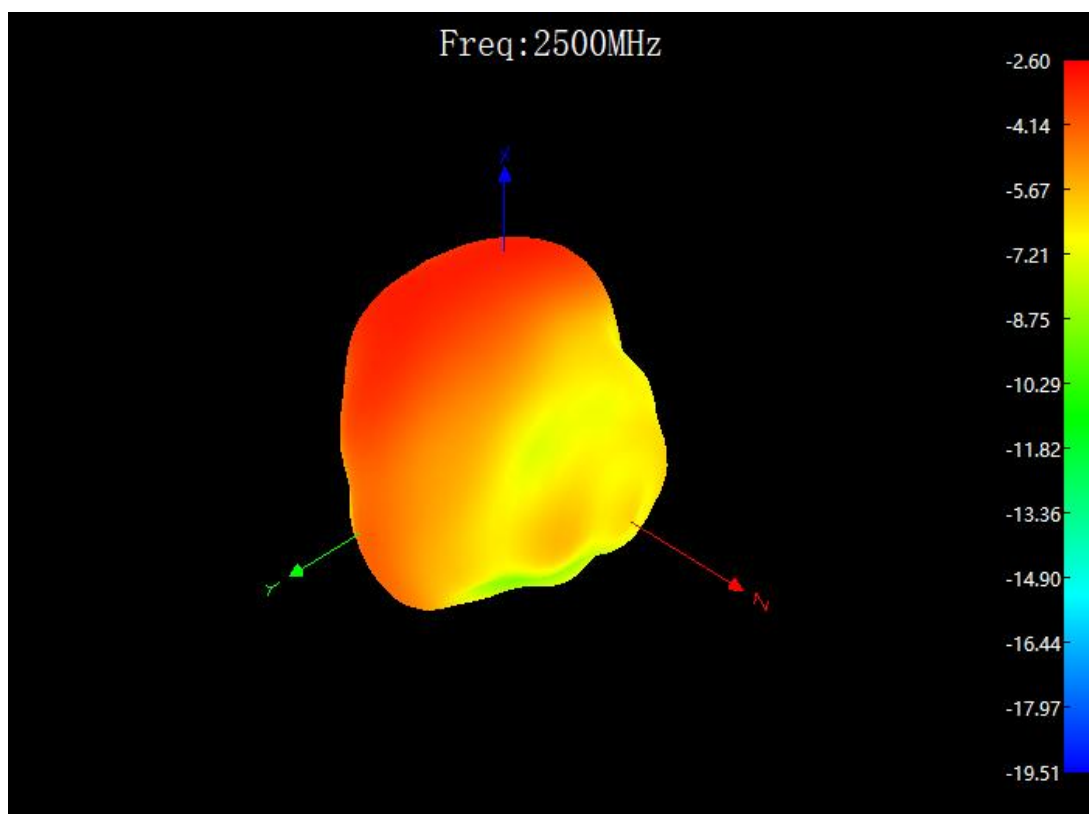
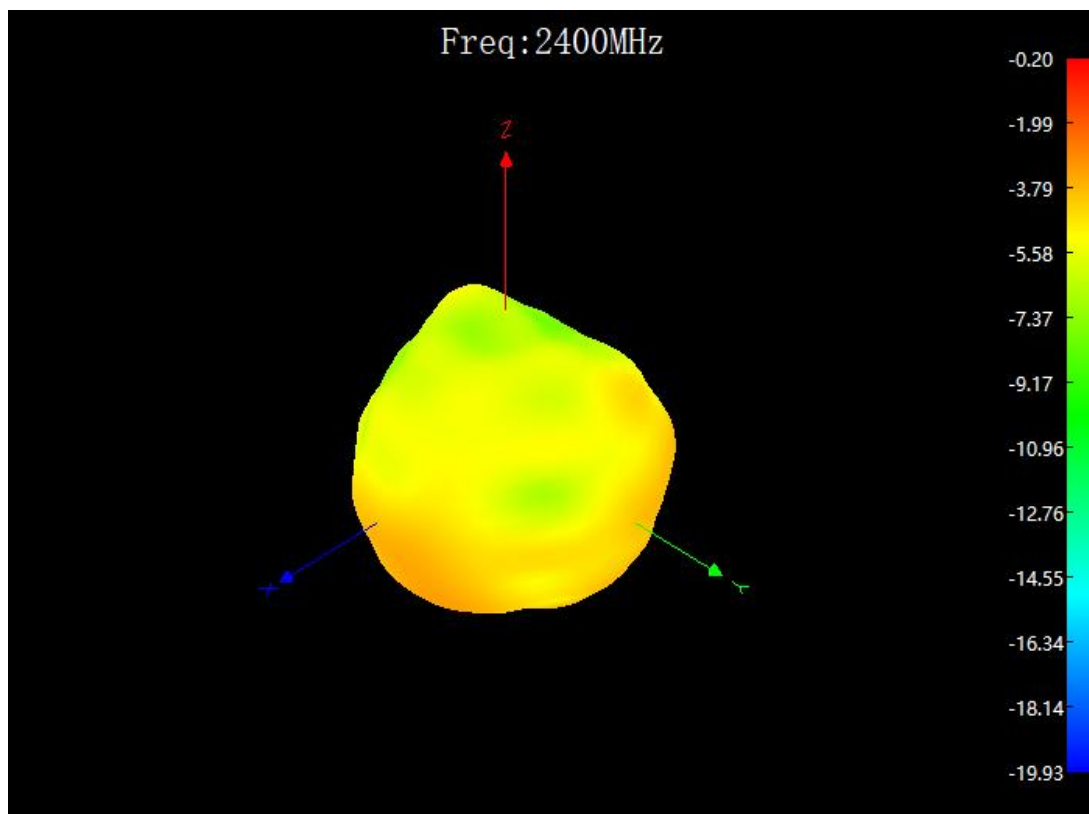


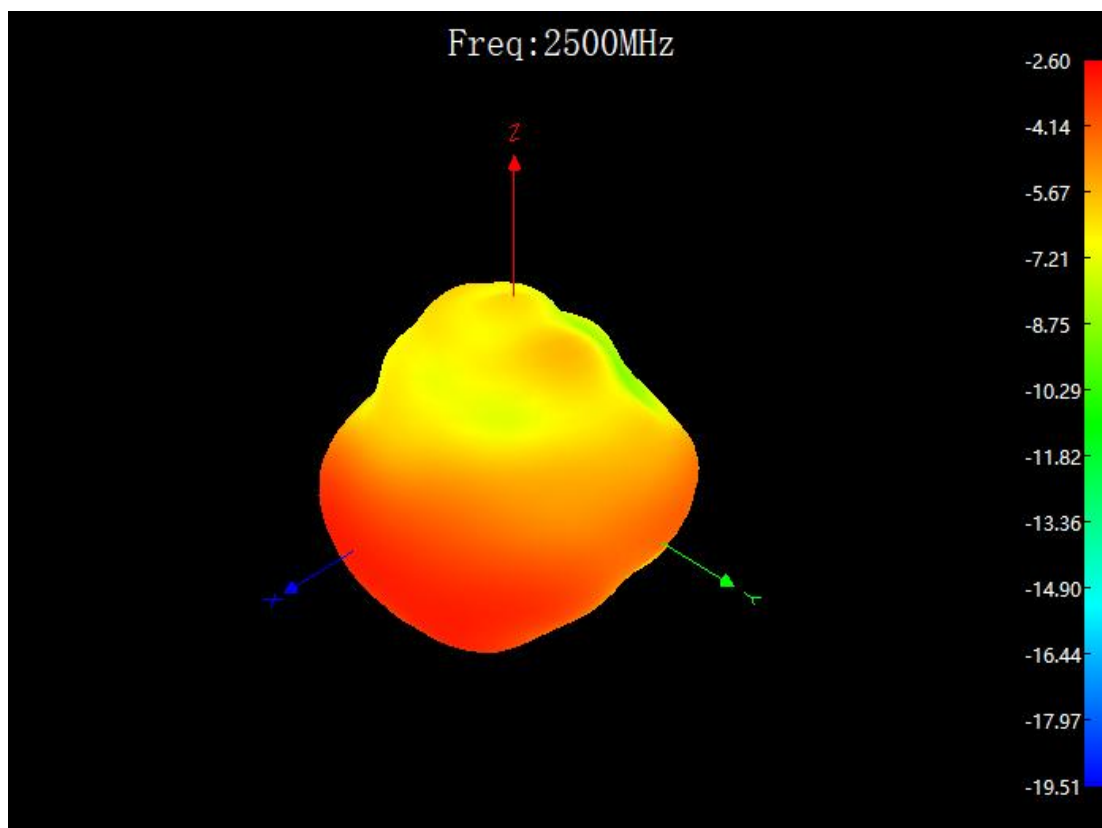
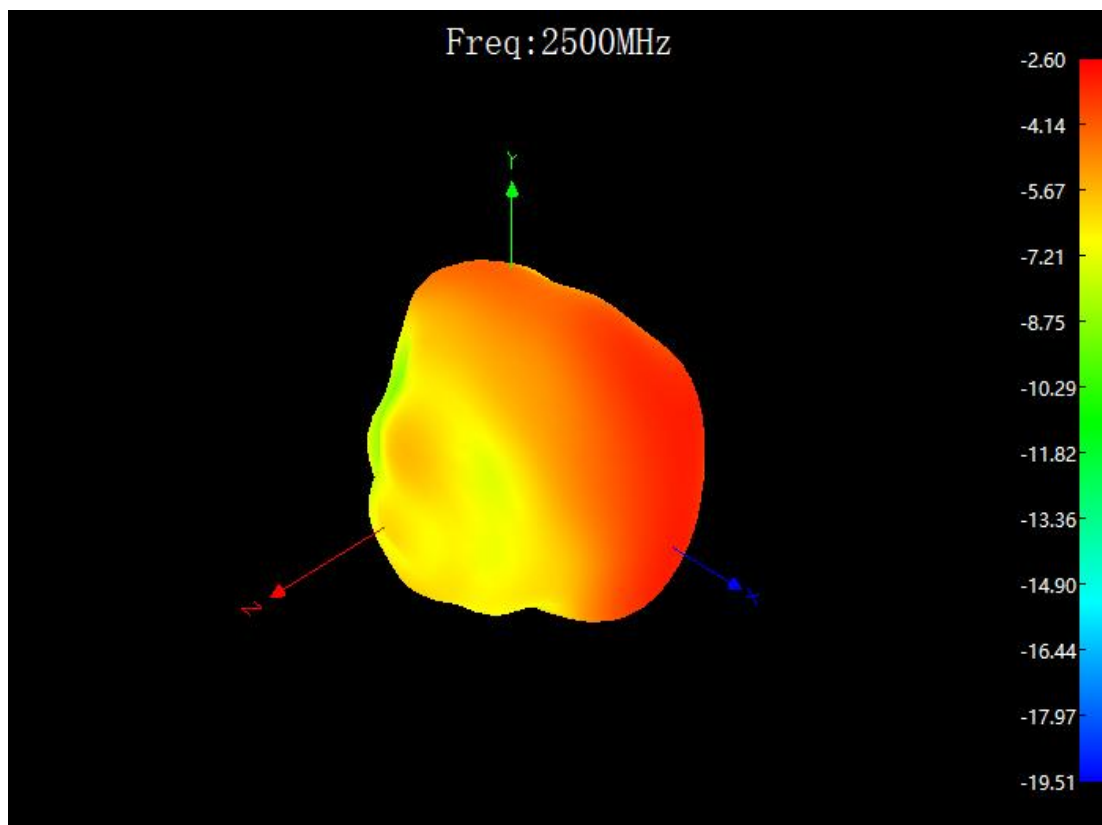
5.2 Gain and efficiency

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	-0.2	18.62
2410	-0.34	18.41
2420	-0.2	19.5
2430	-0.89	18.45
2440	-1.54	18.16
2450	-2	17.46
2460	-2.14	17.3
2470	-2.25	16.98
2480	-2.56	16.14
2490	-2.45	16.79
2500	-2.6	16.9

5.3 3 D Picture



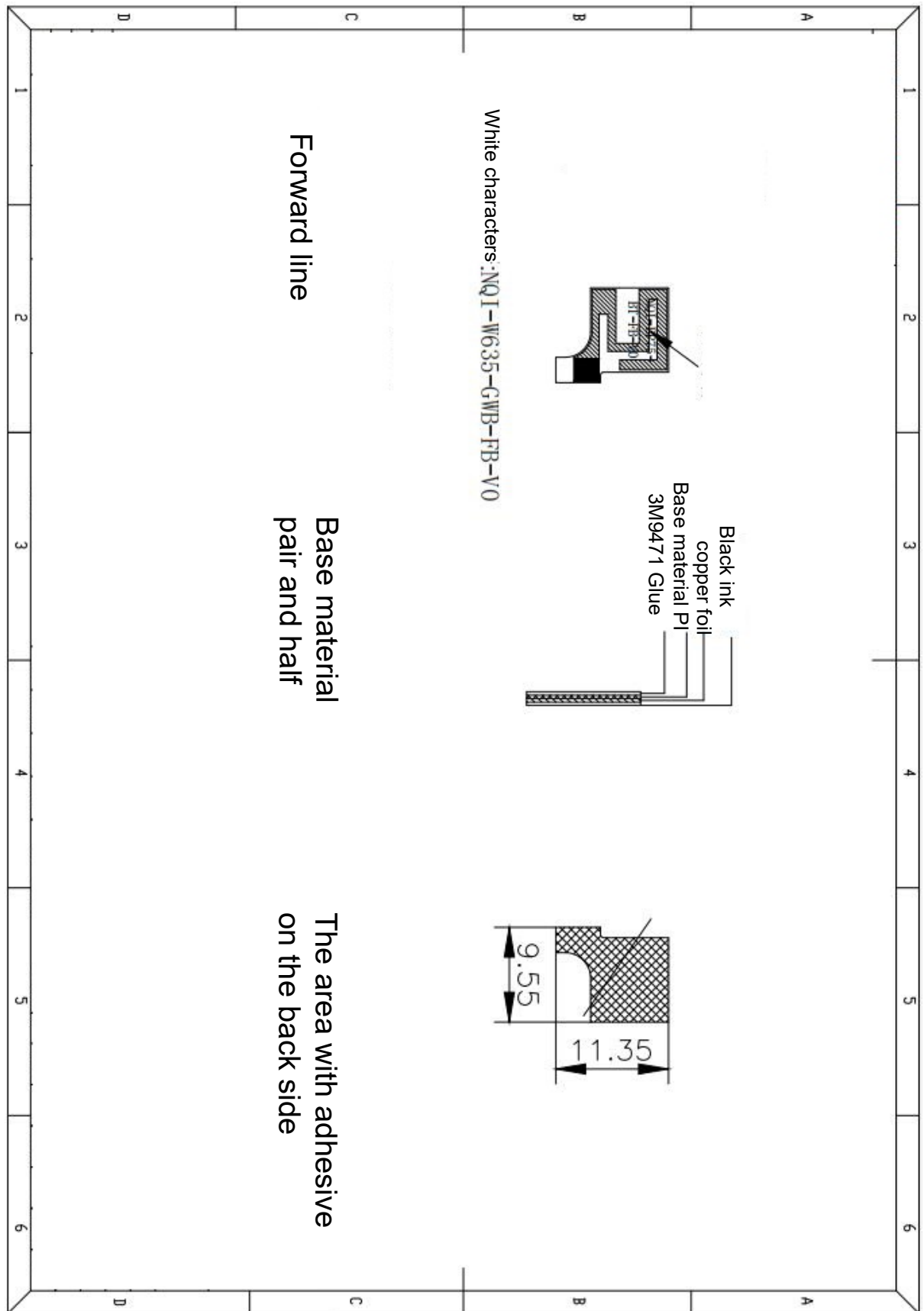




5.2 TRP&TIS

NQI ANT TRP&TIS parameter Summary of BP75				
TRP&TIS	Test	Bluetooth TRP		
	Result	0	19	39
	TRP (dBm)	-6.84	-7.79	-5.19
	TIS (dBm)	-90.69	-90.09	-91.27

六. Antenna structure drawing



Key Dimension Inspection Report									
client		Linyar		project			BP75		
materials		FPC		☒ environment-friendly materials ☐ Non-environmentally friendly materials					
Surface Inspection		☐exposed ☐broken ☐short ☐scratch ☐smudginess ☐Cracking unster line circuit							
		defect quantity: 0 slight ☐ severity ☐ deadly Appearance judgment result: ☒ qualified ☐ disqualification							
Function or Dimension Inspection Record									
NO	check another serial number	dimensional tolerance	check the result					detecting instrument	decision
			1	2	3	4	5		
FPC	1	11.35±0.15	33.35	33.33	33.32	33.35	33.33	DN	OK
	2	9.55±0.15	9.55	9.56	9.55	9.58	9.54	DN	OK
Overall determination: ☒ qualified ☐ disqualification			Non-conforming product handling method: ☐ rework ☐ Royalty						
Measurement instrument code explanation: Projector - PP; Chuck - PG; Height gauge - HG; A gauge - AG; Micrometer caliper - N Digital Caliper - DN									
External Micrometer - M									
Other testing methods code: Three-coordinate - 3D Specialized fixture - SE									
Thread Gauge - SG Visual Inspection - E									
Remark:									
Measurement person: Liu Min									
Shenzhen Guozhi Xin Network Communication Co., Ltd.									