



Shenzhen Guozhixin Network Communication Co., Ltd.

Parts Approval Sheet

Supplier: NQI

Parts Name: BT ANT

Type/Spec: G100B

Parts No: NQI-G100B-BT-V0

Brand: NQI

Quantity:

Send out Date: 2025.09.25

Document No:

Approve Date:

Version: V0

Parts Name

Supplier		Customer	
Approved By	Prepared By	Engineering Dept	Quality Dept

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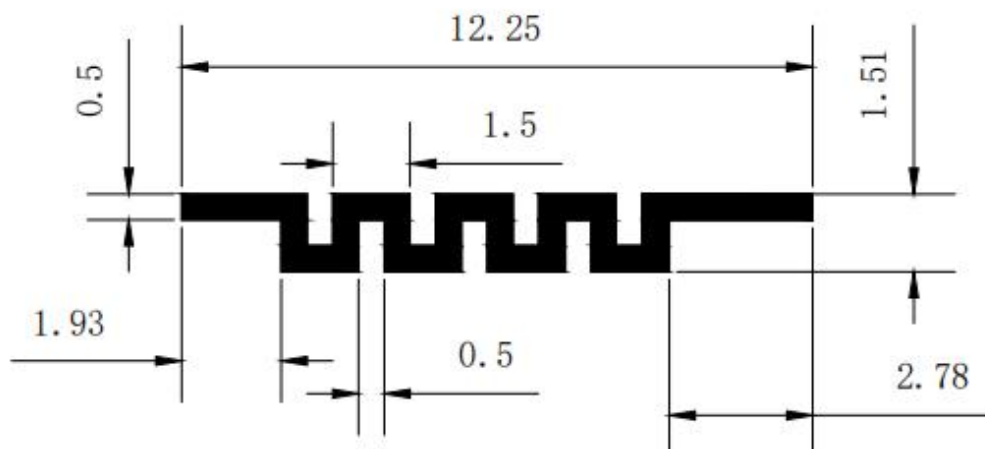
Resume

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一. Sample picture and description:

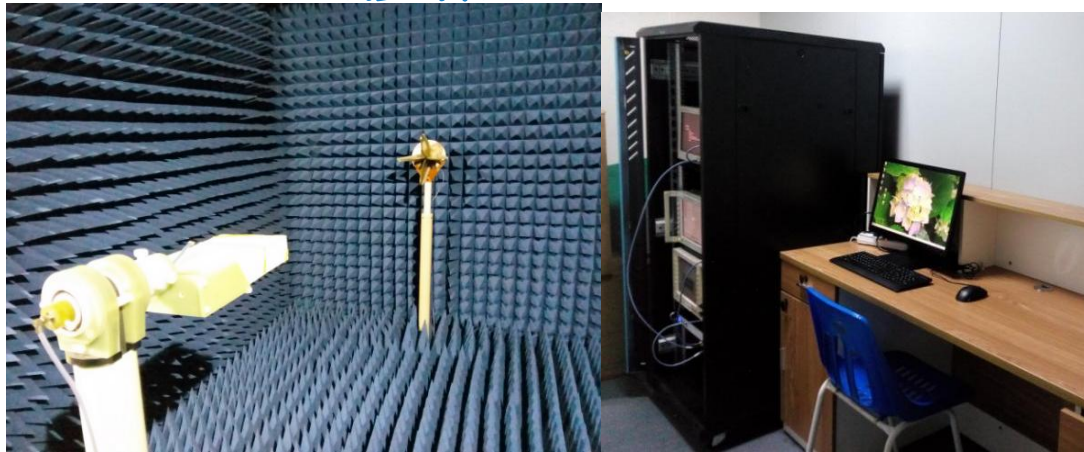


Electrical Specifications	
Frequency range	(2400-2500)MHz
impedance	50 ohm
VSWR	≤ 3
Gain	2.86dBi
Polarization	level
Radiation direction	omnidirectional
Connection Mode Description	
connector	/
Cable specifications	/
Working/Storage temperature	
Working temperature	-30℃~65℃
Storage temperature	-30℃~75℃

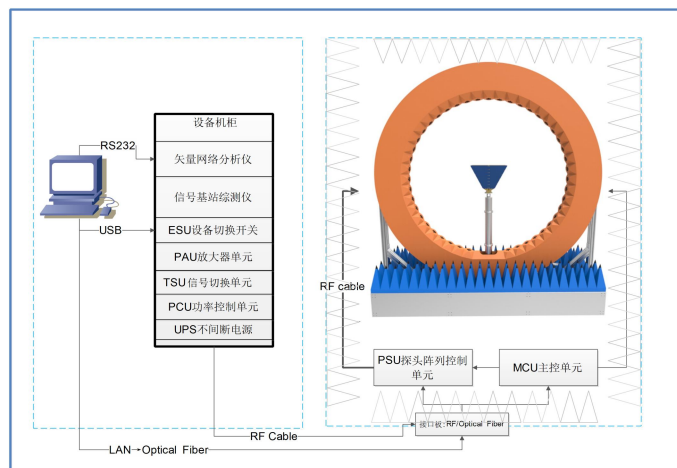
二. Test equipment and items :

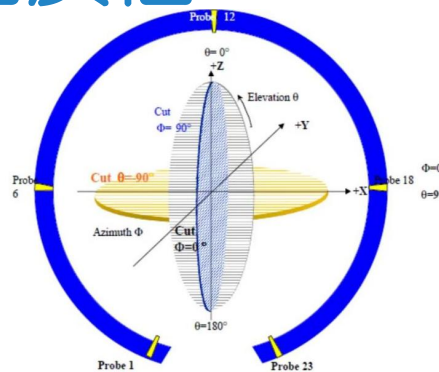
Class	Test item	Equipment
1. Sparameter	1. RL	VNA : Agilent E5071B
	2. VSWR	R&S ZVB8

	3.Smith chart	Protek A333
2.Coupling testing	1.MAX Power 2. MIN Sens	1.2G/3G Tester: Agilent 8960 2.The coupling box: TESCO 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. TRP 2. 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)

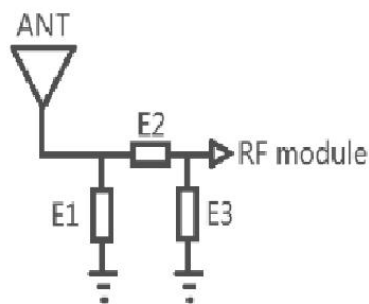


三. Chamber connection and coordinates :





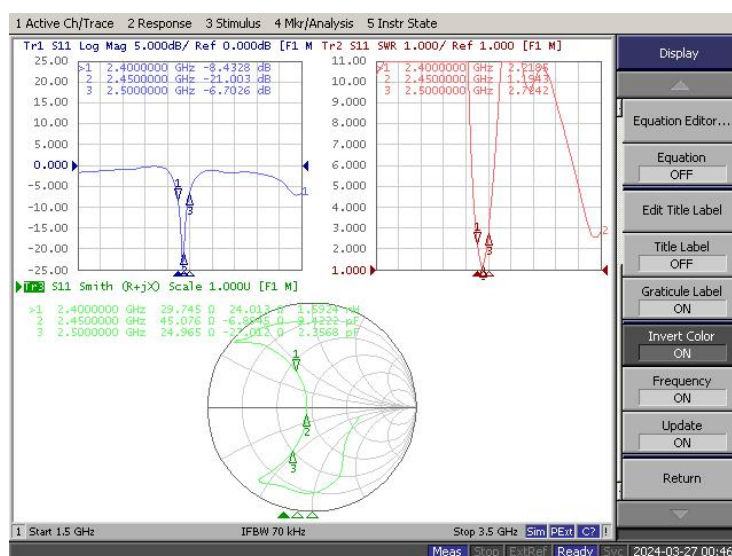
四. Antenna matching network



Element	Value
E1(0201)	NC
E2(0201)	0 Ω
E3(0201)	1.5PF

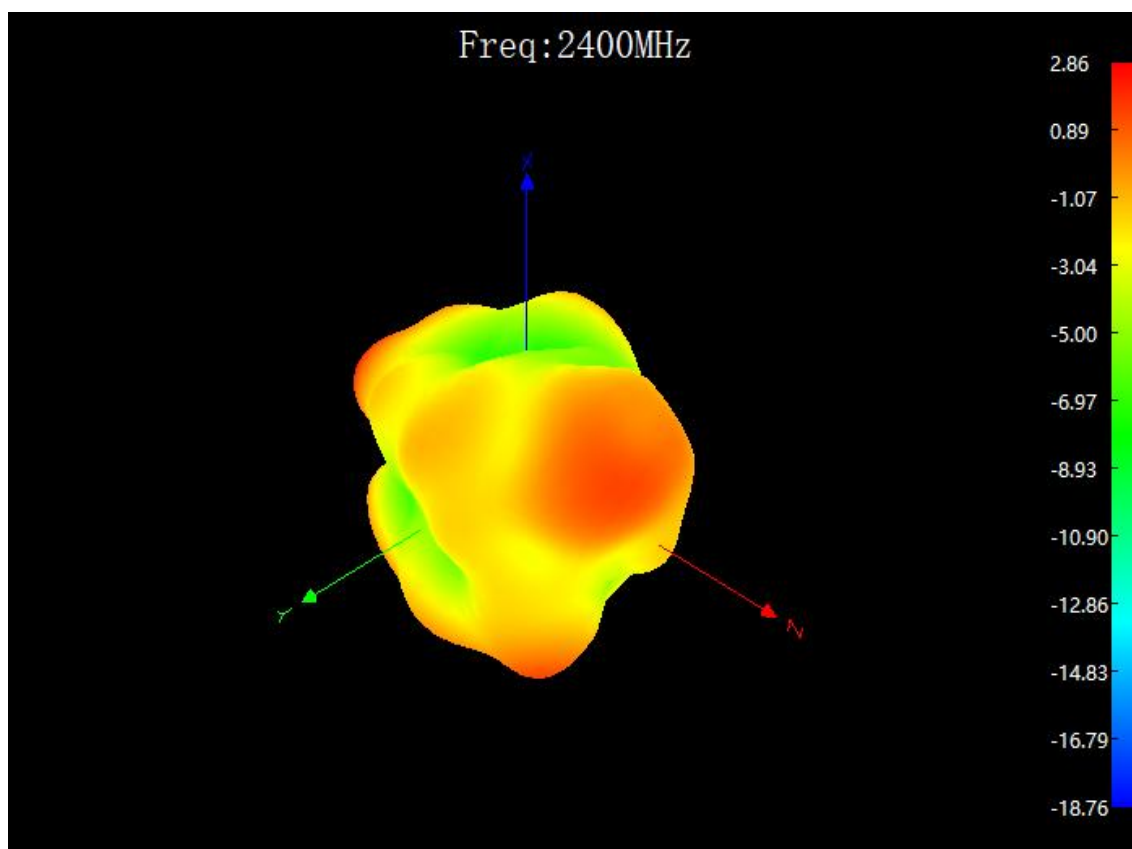
五. Antenna passive parameters

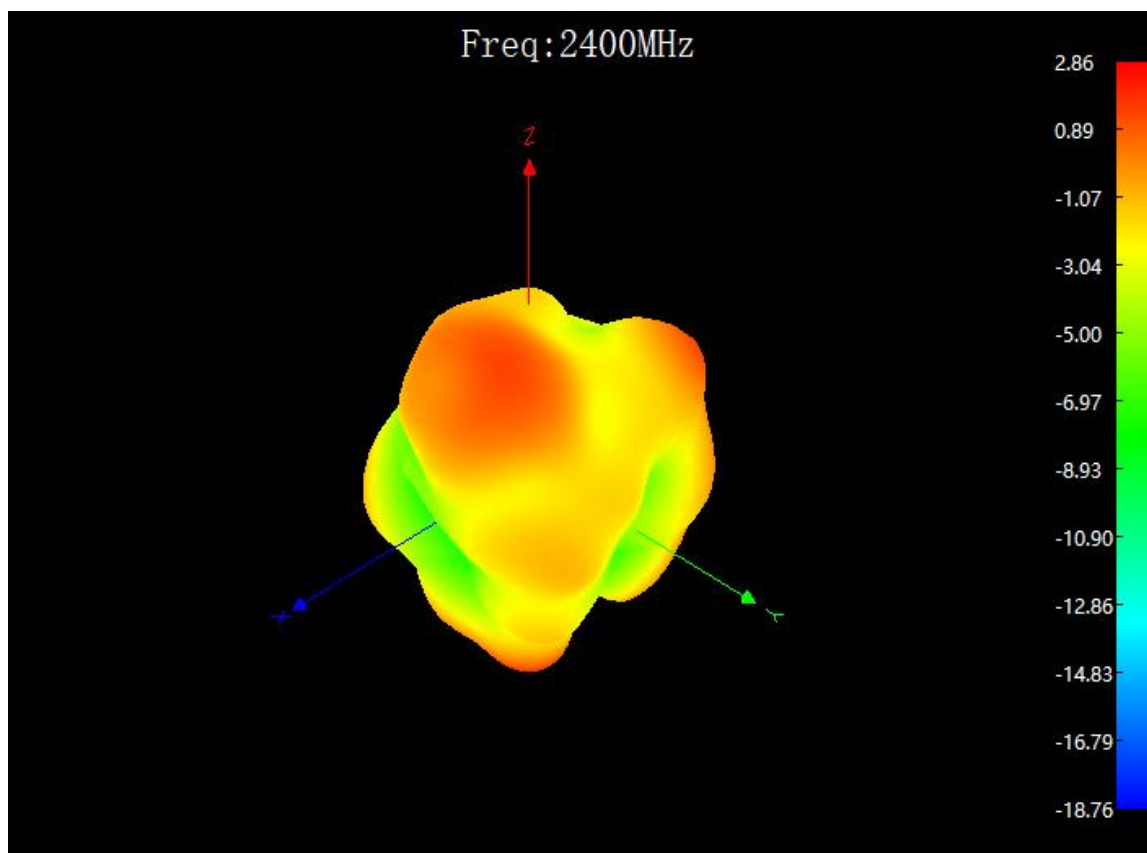
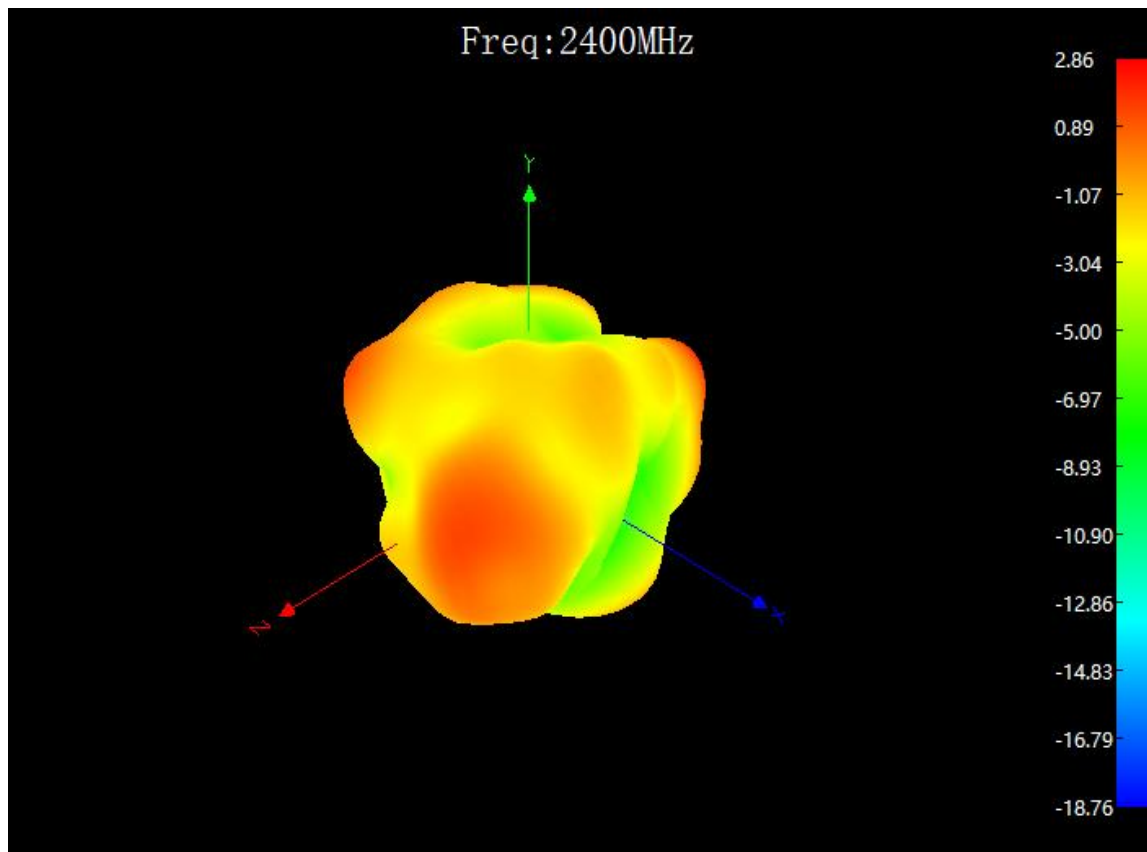
5.1. RL/VSWR

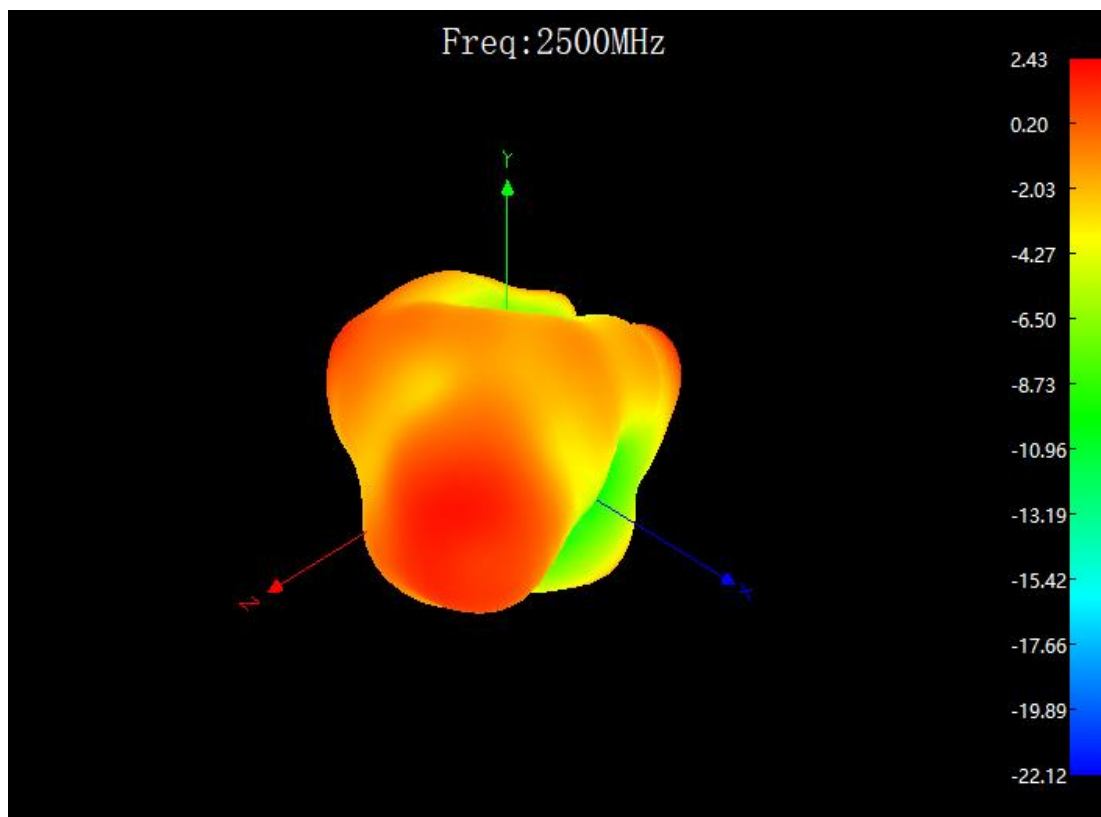
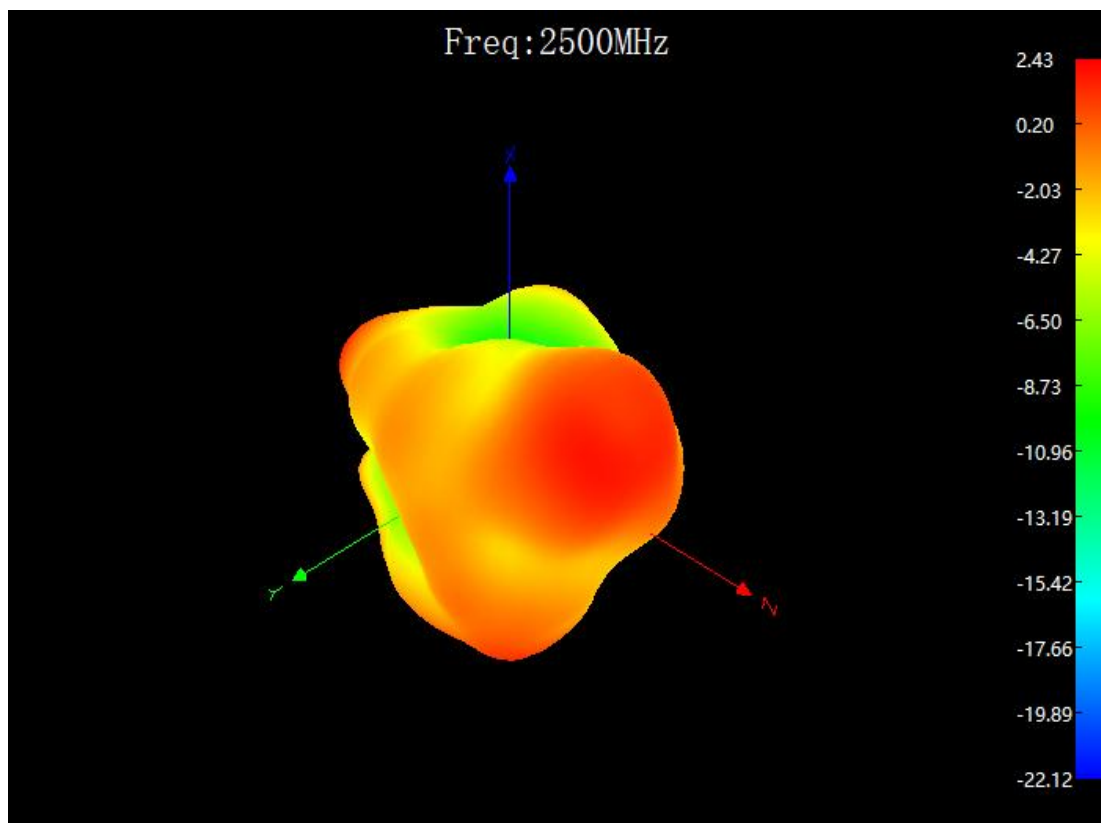


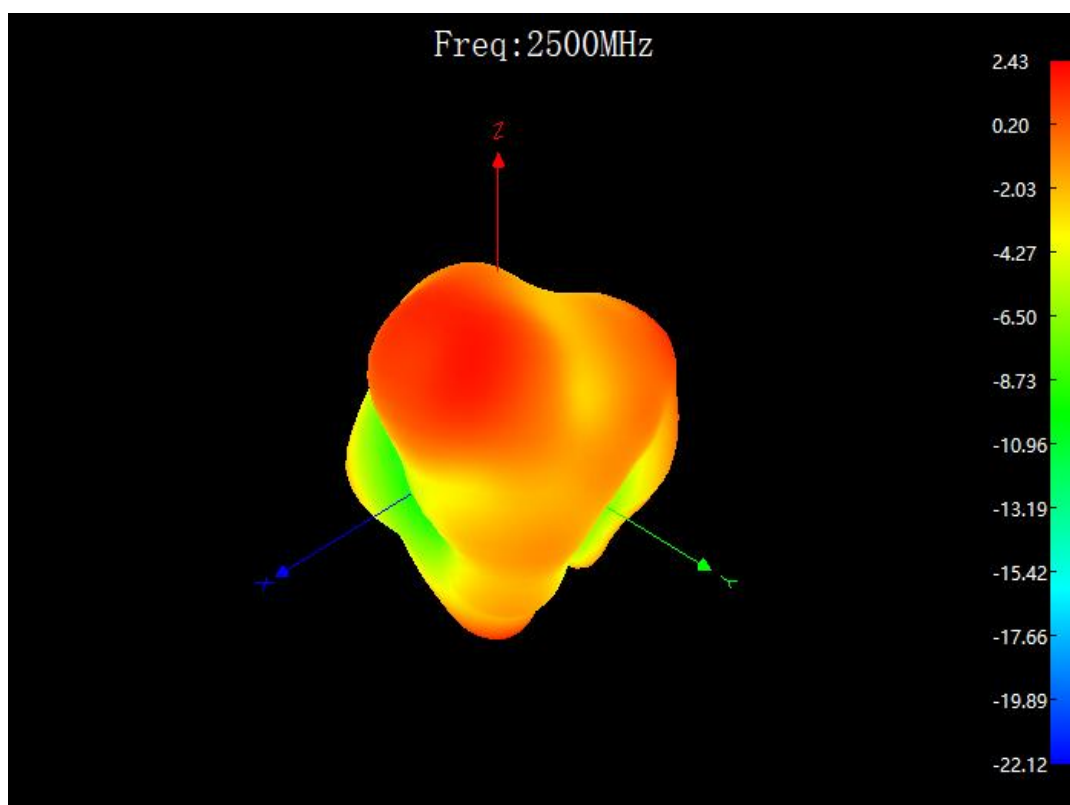
5.2.Effeciency、 Gain、 Radiation pattern

Freq (MHz)	Effi (%)	Gain (dBi)
2400	49.43	2.86
2410	48.98	2.83
2420	51.05	2.35
2430	50.23	2.25
2440	54.08	2.39
2450	58.61	2.75
2460	61.8	2.57
2470	60.81	2.47
2480	55.08	2.81
2490	54.2	2.83
2500	53.09	2.43









6.3. Antenna Active parameter

NQI ANT TRP&TIS parameter Summary of LA-220VR-红米 K30				
free space	Test	Bluetooth TRP		
	Result	0	39	78
	TRP (dBm)	4.25	4.12	3.14
	TIS (dBm)	-88.96	-89.56	-88.13

七. Antenna structure drawing

