

Antenna Specification

Product description: Bluetooth Antenna

Uni Link’s part number:

Issue Date: 2023-10-13

Note: 2400 - 2500MHZ

Manufacturer: SHENZHEN FREQUENCV EXTENSION IOT TECHNOLOGY CO.LTD

Address:Block A, Jinbolong Industrial Park, No.1 Huayun Road, Yucui Community, Longhua Street, Shenzhen City.

1. (PRODUCT TECHNICAL SPECIFICATION)

Rear derailleur

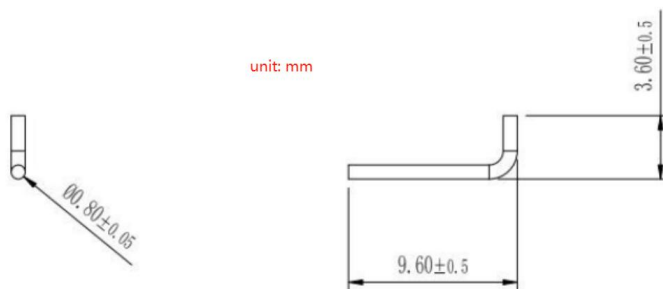
Electrical Specifications	
Frequency Range (MHz)	2400 – 2500
Input Impendence(Ω)	50
V. S. W. R	≤1.5
Gain(dBi)	-2.53
Polarization Type	Horizontal
Power Capacity(w)	2
Mechanical Specifications	
Antenna Length(mm)	9.5mm*3.6mm*0.8mm
Radiator	
Connect Type	
Working Temp(℃)	-40℃ to 85℃
Storage Temperature(℃)	2 W
antenna size	9.5mm*3.6mm*0.8mm
Weight(g)	

L Shifter/R Shifter

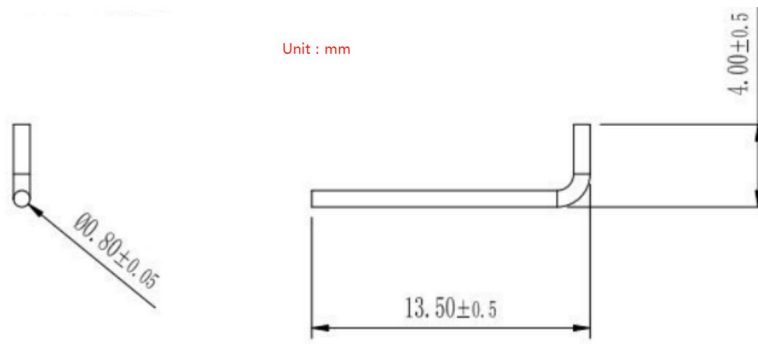
Electrical Specifications	
Frequency Range (MHz)	2400 – 2500
Input Impedence (Ω)	50
V. S. W. R	≤ 1.5
Gain (dBi)	0.92
Polarization Type	Horizontal
Power Capacity (w)	2
Mechanical Specifications	
Antenna Length (mm)	13.5mm*4.0mm*0.8mm
Radiator	
Connect Type	
Working Temp ($^{\circ}\text{C}$)	-40 $^{\circ}\text{C}$ to 85 $^{\circ}\text{C}$
Storage Temperature ($^{\circ}\text{C}$)	2 W
antenna size	13.5mm*4.0mm*0.8mm
Weight (g)	

2. The size of the antenna(mm):

Rear derailleur

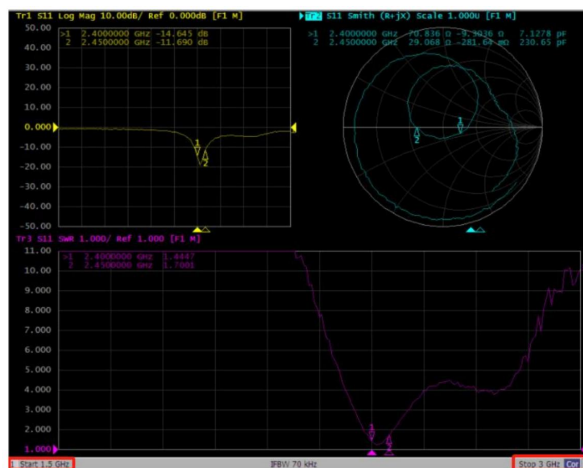


L Shifter/R Shifter

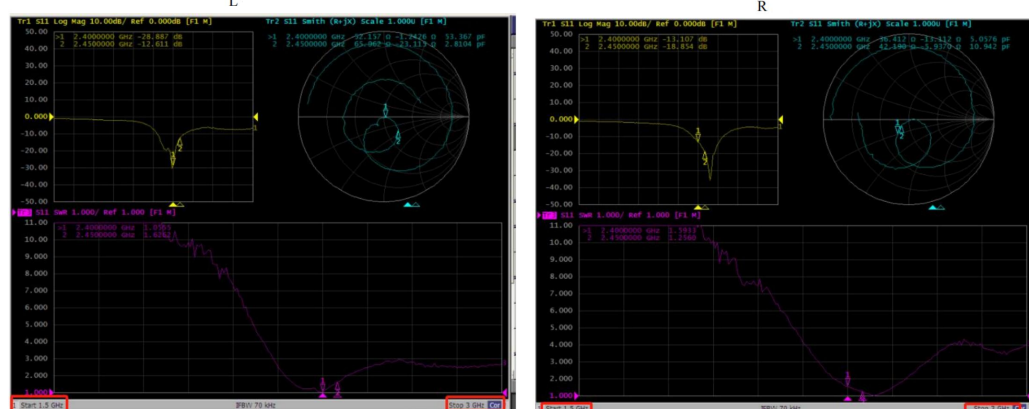


3. Image of antenna s11

Rear derailleur



L Shifter/R Shifter



4. Antenna gain

Rear derailleur

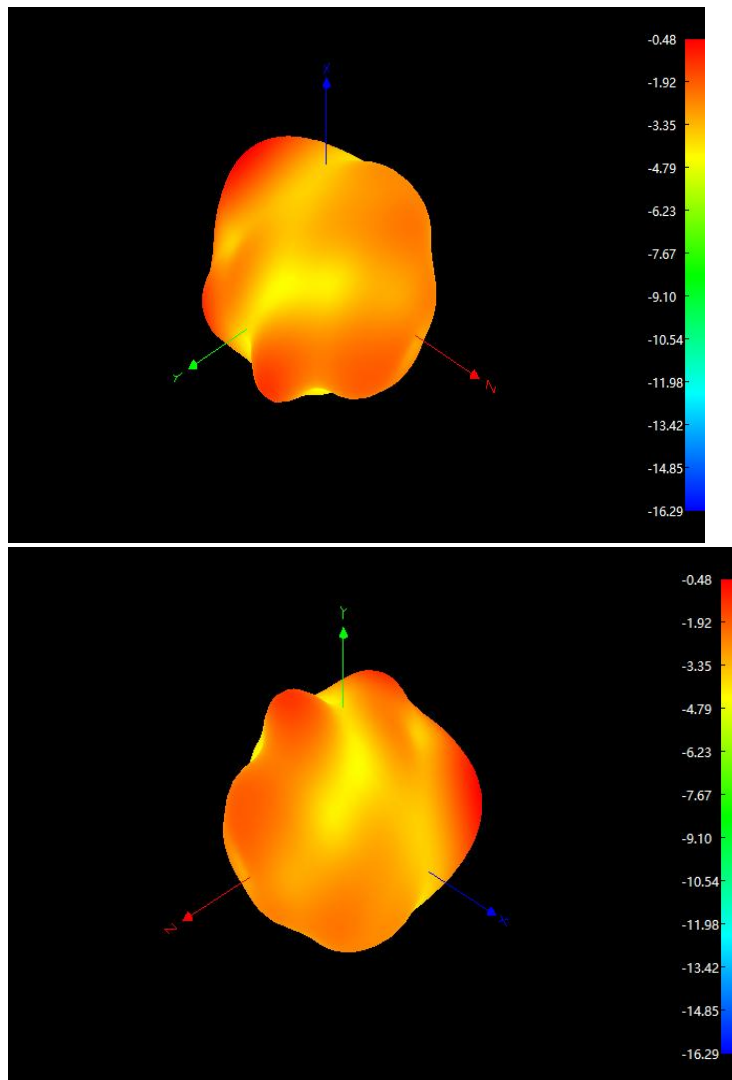
2400-2500MHZ Efficiency		
Frequency	Efficiency	Gain. dBi
2400MHz	13%	-3.35
2410MHz	13%	-3.21
2420MHz	14%	-3.22
2430MHz	14%	-2.93
2440MHz	14%	-2.82
2450MHz	15%	-2.66
2460MHz	15%	-2.70
2470MHz	15%	-2.64
2480MHz	15%	-2.53
2490MHz	15%	-2.63
2500MHz	14%	-2.93

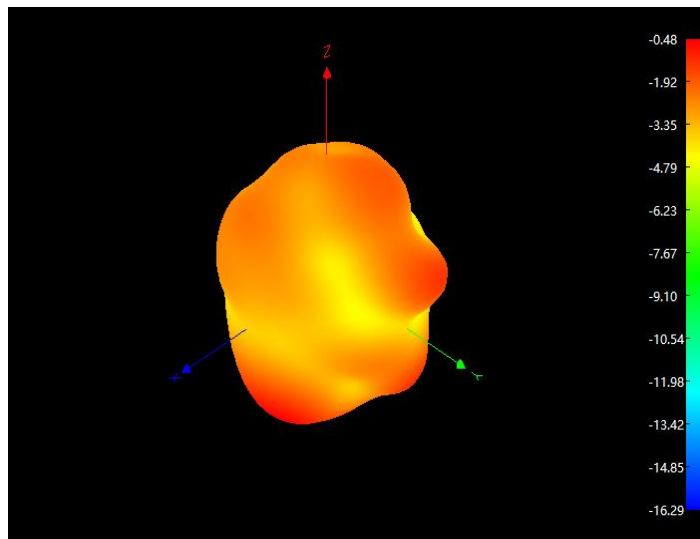
L Shifter/R Shifter

L			R		
2400-2500MHZ Efficiency			2400-2500MHZ Efficiency		
Frequency	Efficiency	Gain. dBi	Frequency	Efficiency	Gain. dBi
2400MHz	31%	-0.15	2400MHz	31%	-0.15
2410MHz	32%	0.23	2410MHz	32%	0.23
2420MHz	33%	0.4	2420MHz	33%	0.4
2430MHz	33%	0.43	2430MHz	33%	0.43
2440MHz	32%	0.39	2440MHz	32%	0.39
2450MHz	32%	0.44	2450MHz	32%	0.44
2460MHz	32%	0.55	2460MHz	32%	0.55
2470MHz	31%	0.54	2470MHz	31%	0.54
2480MHz	30%	0.49	2480MHz	30%	0.49
2490MHz	32%	0.92	2490MHz	32%	0.92
2500MHz	31%	0.61	2500MHz	31%	0.61

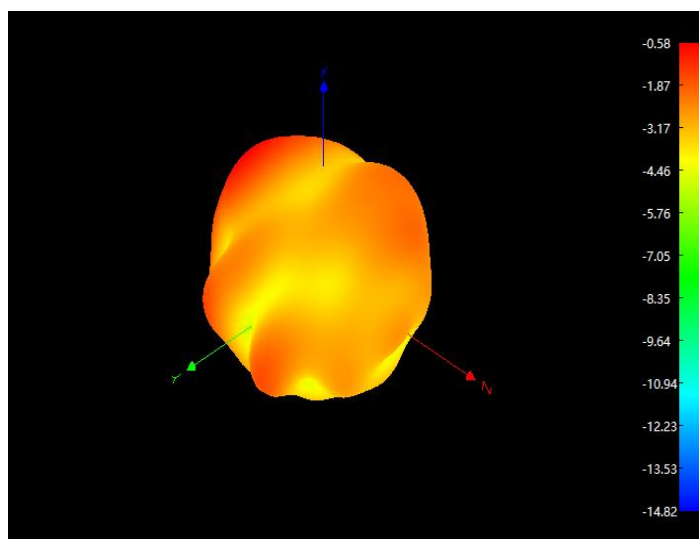
Rear derailleur

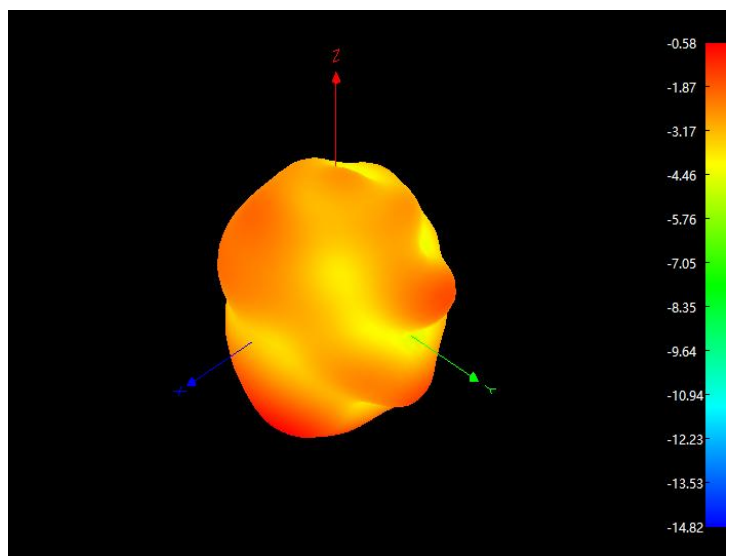
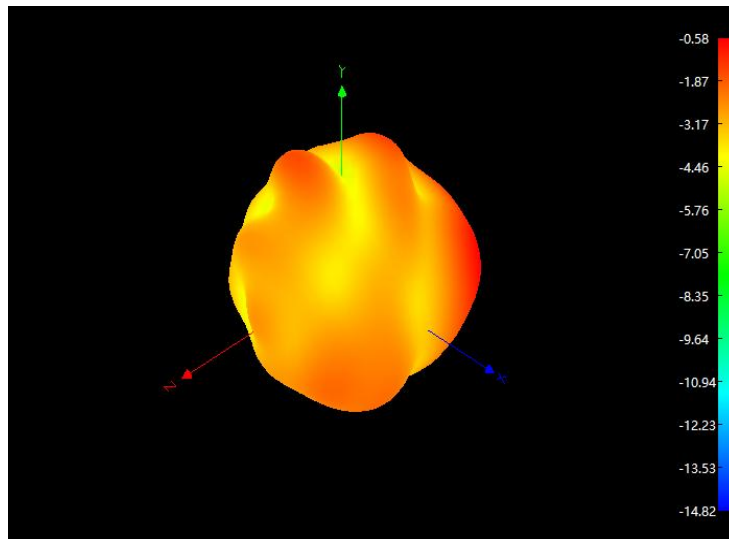
2400MHZ



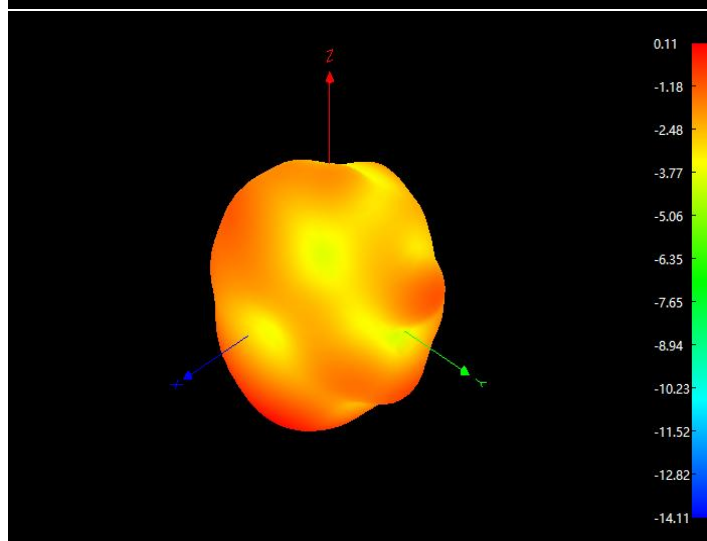
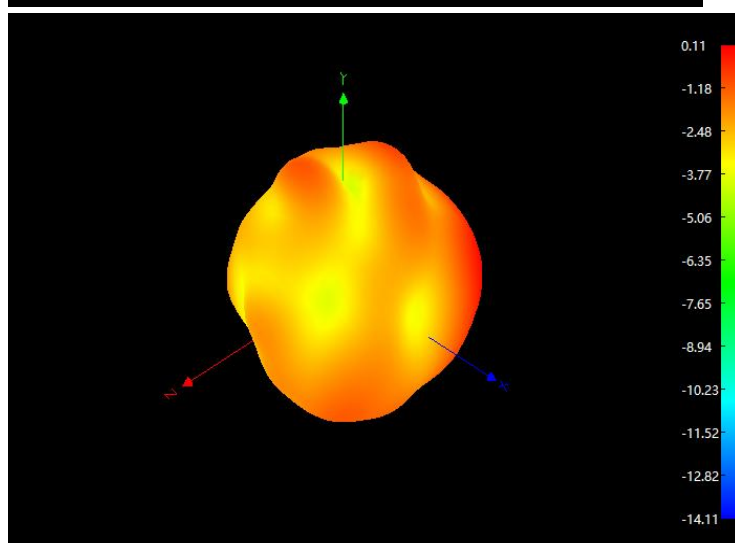
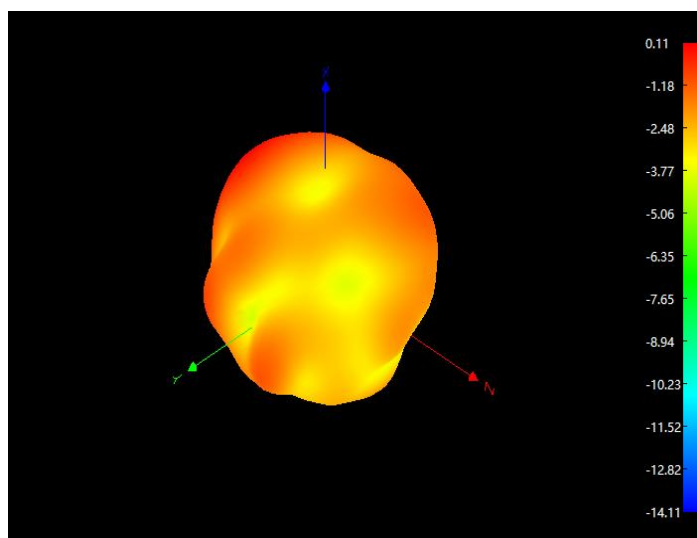


2442MHZ



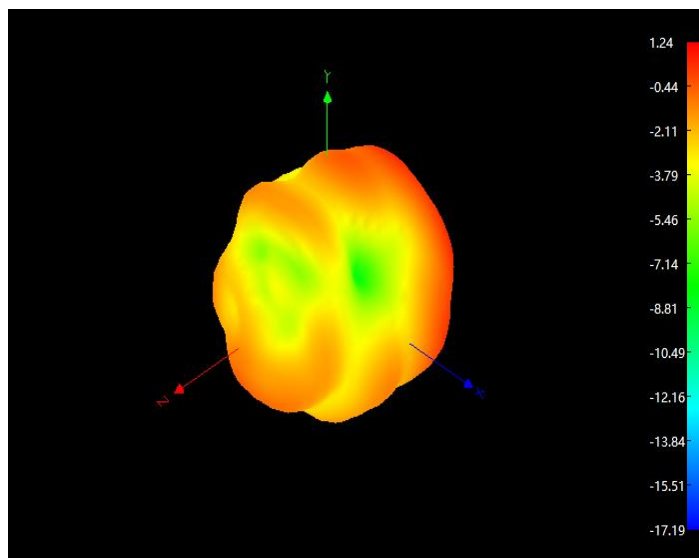
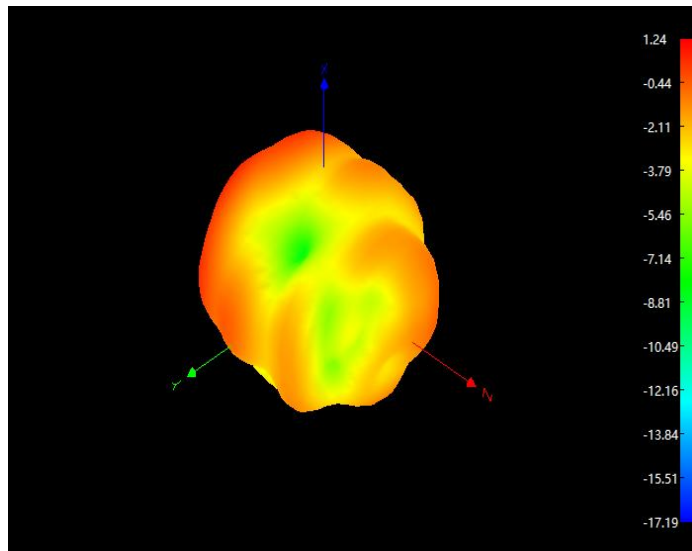


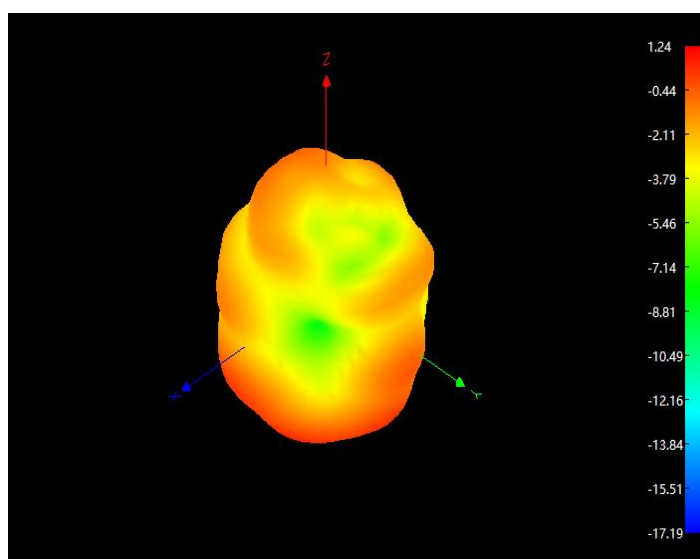
2500MHZ



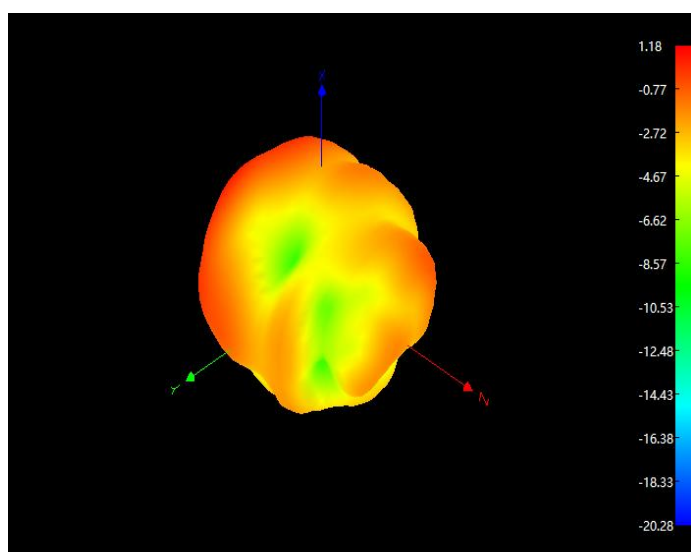
L Shifter/R Shifter

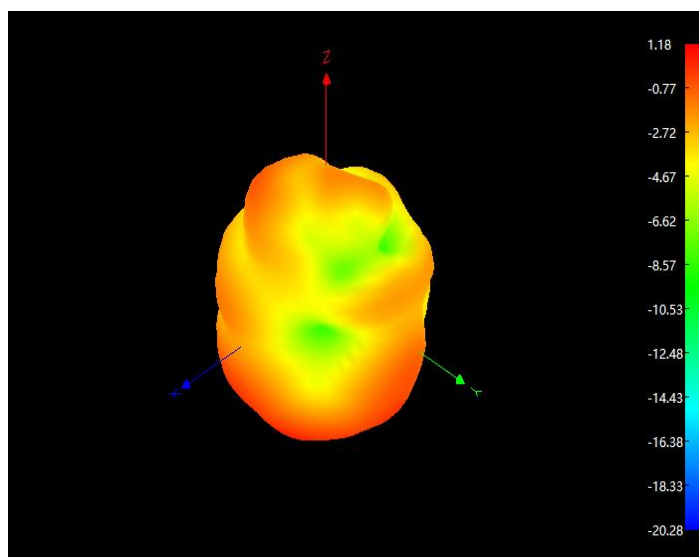
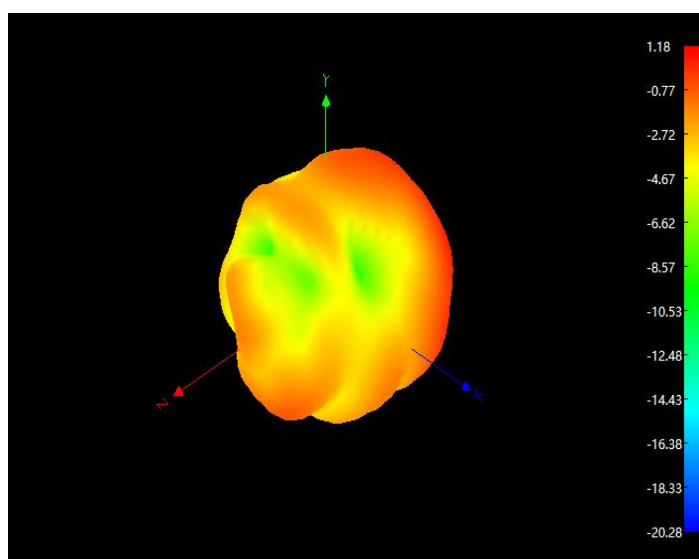
2400MHZ





2442MHZ





2500MHZ

