Antenna specification

Antenna Specification Mobile communication terminal antenna

Customer Name: Si rui

Product Name: Rearview mirror -WIFI antenna

Material Code: 3-WIFI-2450-01

Contractor		Date: 2022 / 09/ 28	
RF	construction	auditor	QC

Product category and product model overview

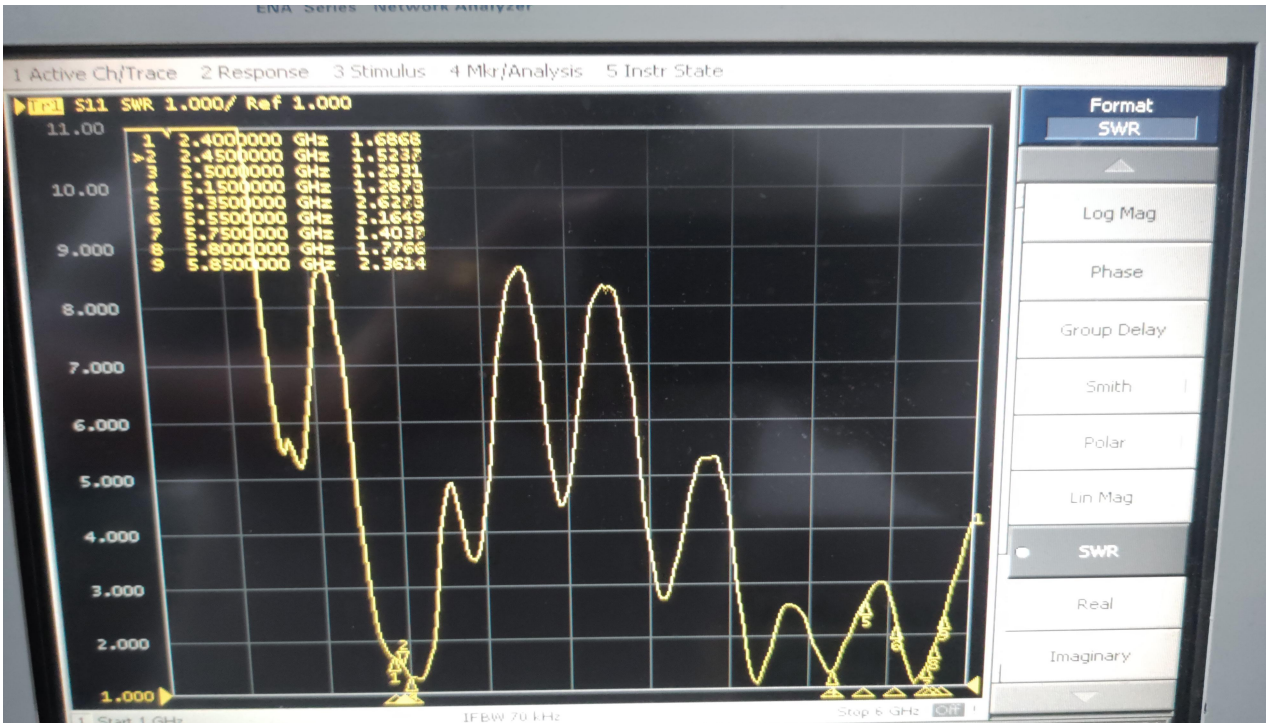
Category
This mobile communication terminal antenna is unipolarProduct model overview,This report mainly Outlines the electrical results of the antenna designed by the Rearview Mirror project.
The antenna design frequency band is**:2400M-2500M&5150M-5850M** .

Technical index and experimental equipment

Technical index

Product electrical performance index	
Operating Frequency	2400 ~ 2500 MHz 5150~ 5850 MHz
SWR	2400~2500MHz: <3.0 5150~5850MHz: <3.0
Antenna Gain	2400-2500MHz：2dBi 5150-5850MHz：2dBi
Radiant Efficiency	2400 ~ 2450 MHz : > 20 % 5150 ~ 5850 MHz : > 20 %
Impedance	50 ohm
Product material description	
FPC+Coaxial line	**Coaxial line electrolytic copper +PI+0.81 coaxial line**
Product environment description	
Operation temperature	- 30˚C ~ + 85 ˚C
Storage Temperature	- 30˚C ~ + 85 ˚C

2.4G-5.8G Passive standing wave pattern

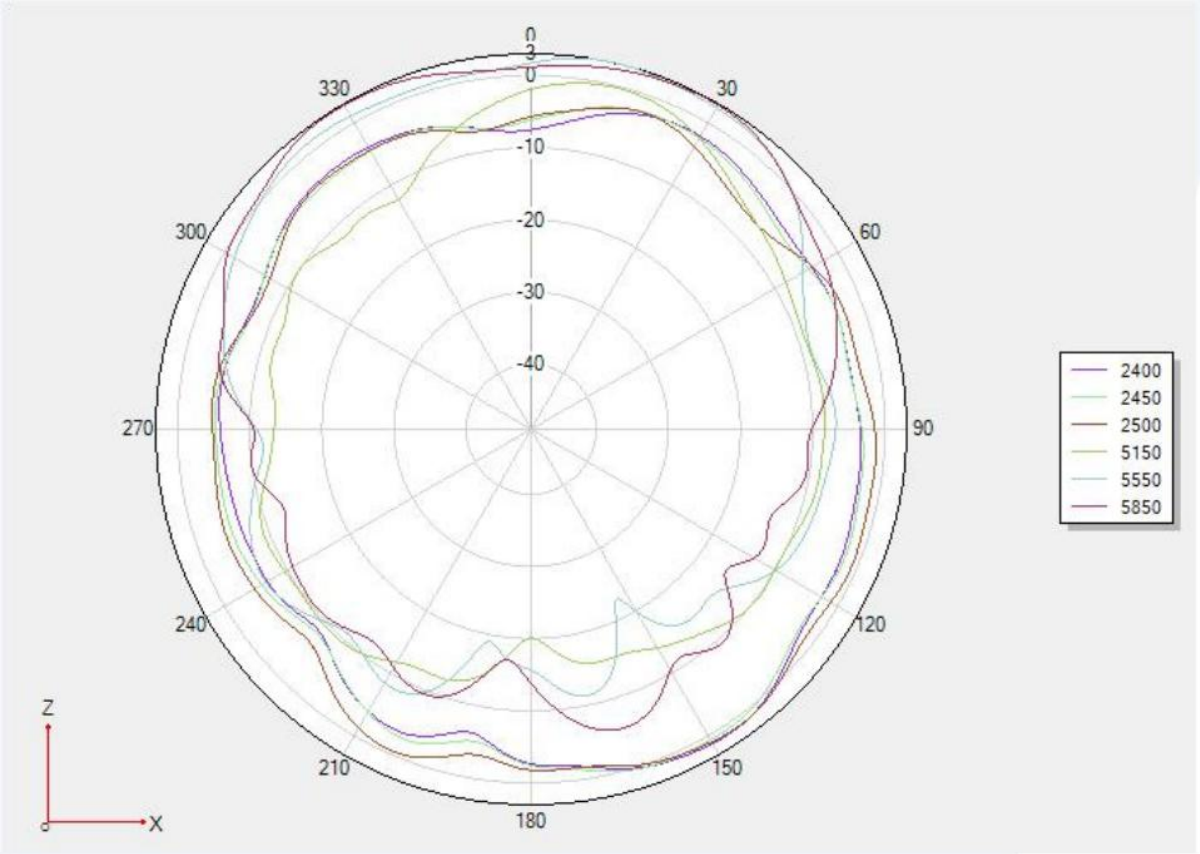


Active test data:

2.4G WIFI	**WIFI-B(11M)**		
Channel	1	6	11
TRP	12.69	12.06	12.41
TIS			-68.05

5.8G WIFI	**WIFI-A(54M)**		
Channel	36	64	157
TRP	9.06	9.98	9.37
TIS			-69.02

2D /3D：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-30
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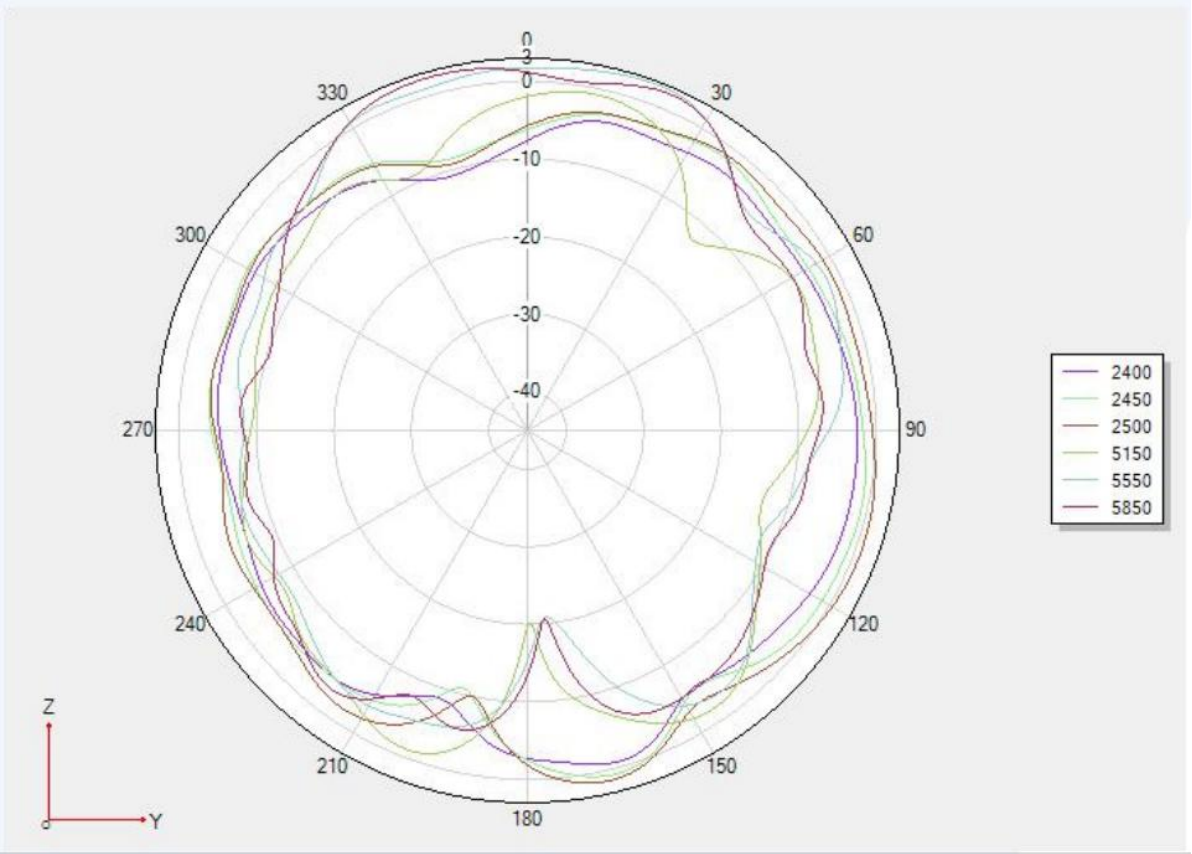
330
2400
2450
2500
5150
5550
5850
Z
X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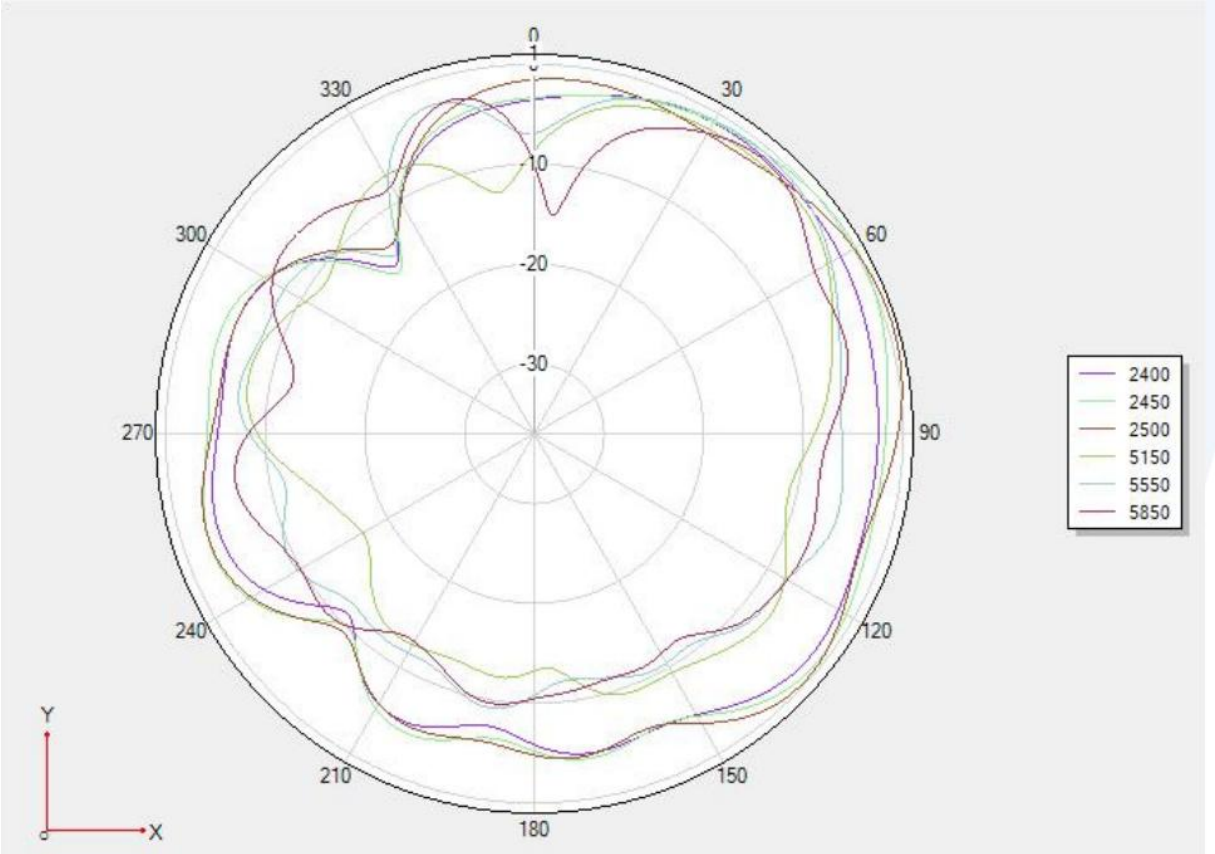
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5850
Y
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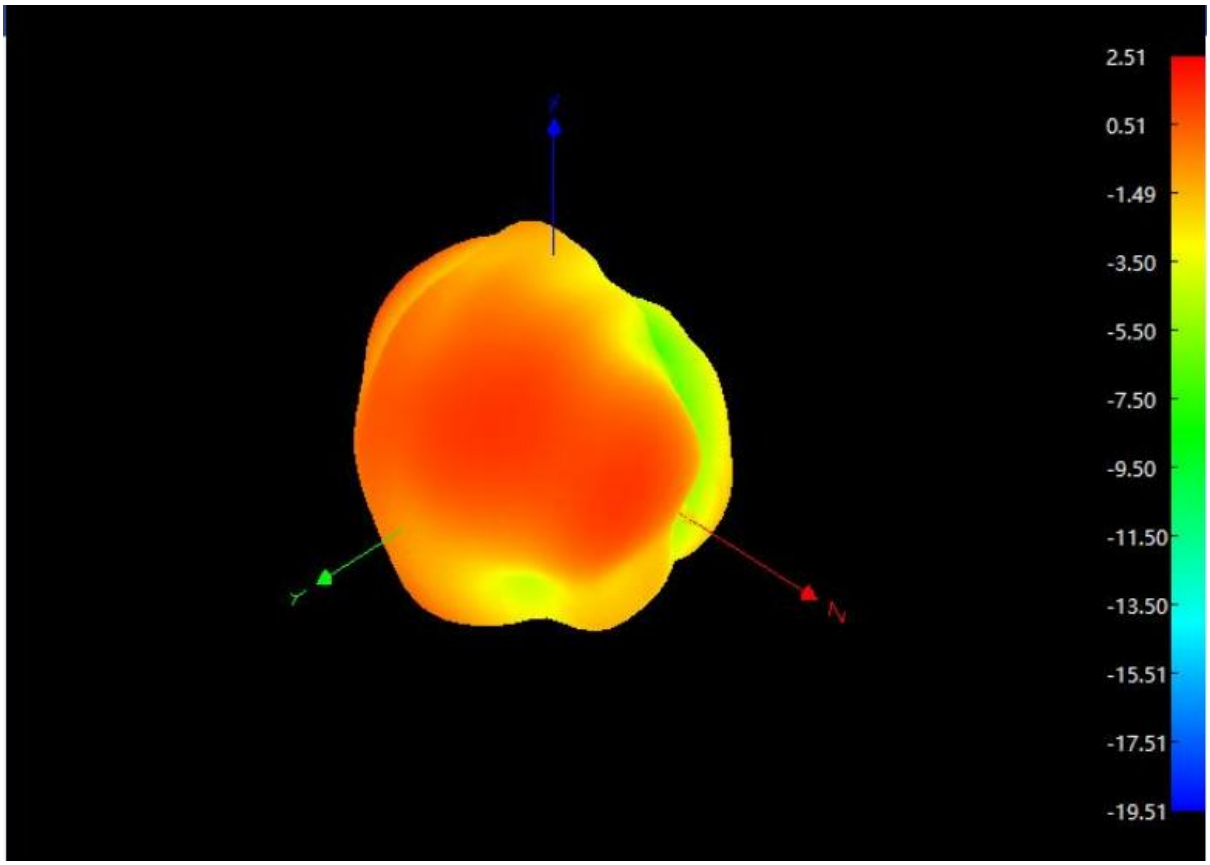
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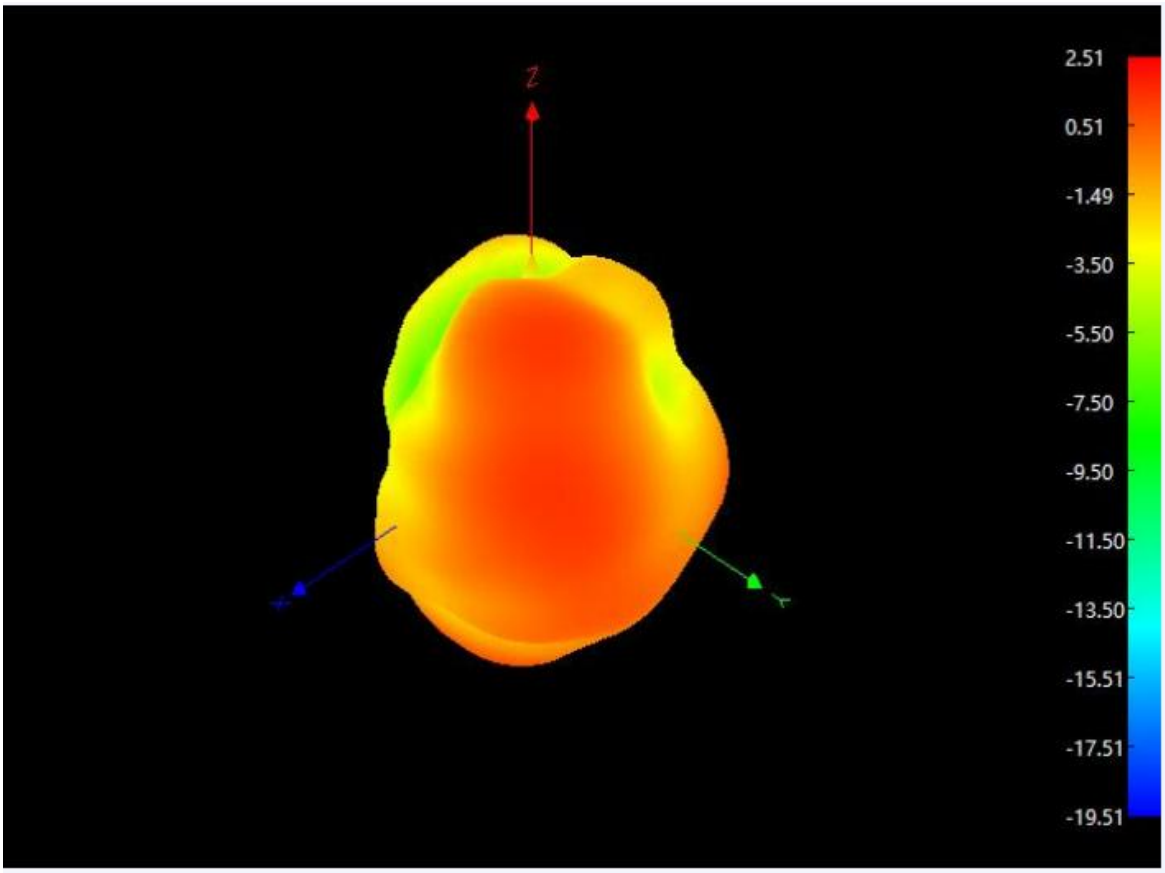
-17.51
-19.51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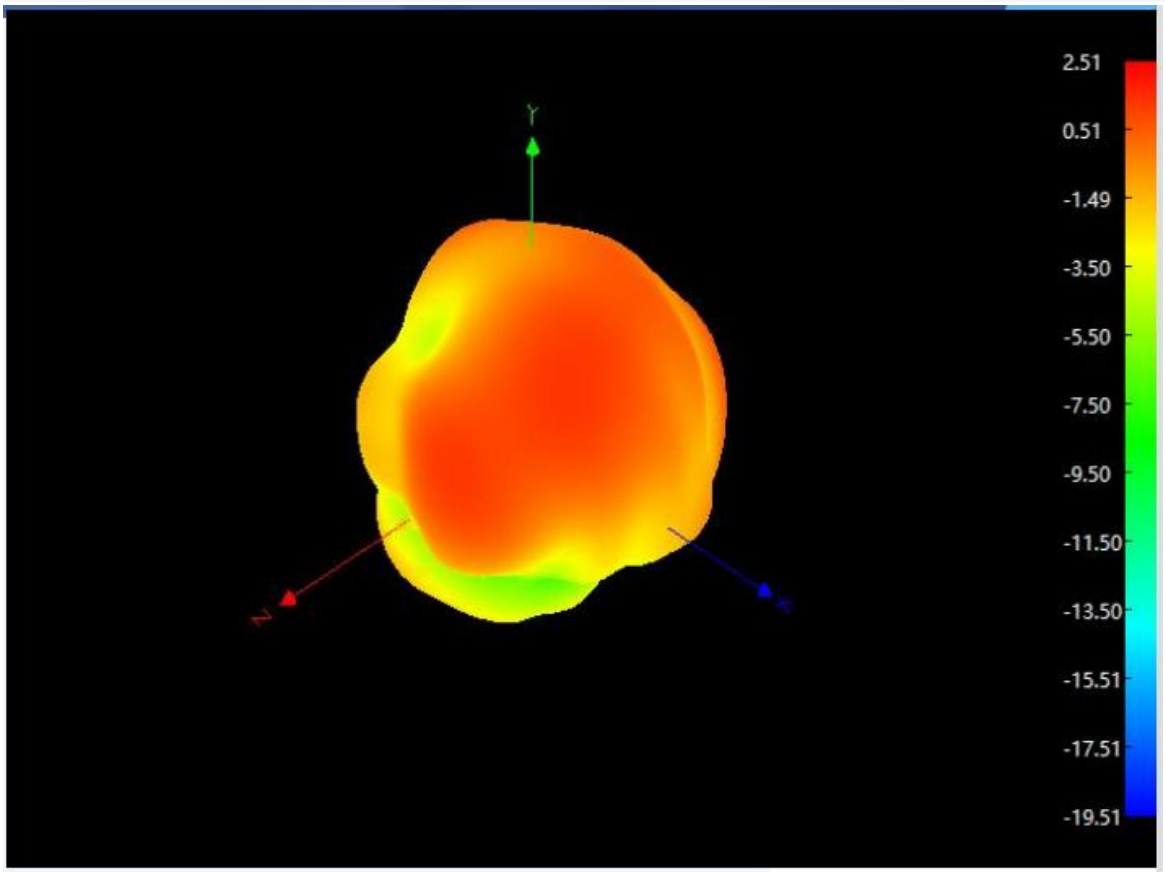
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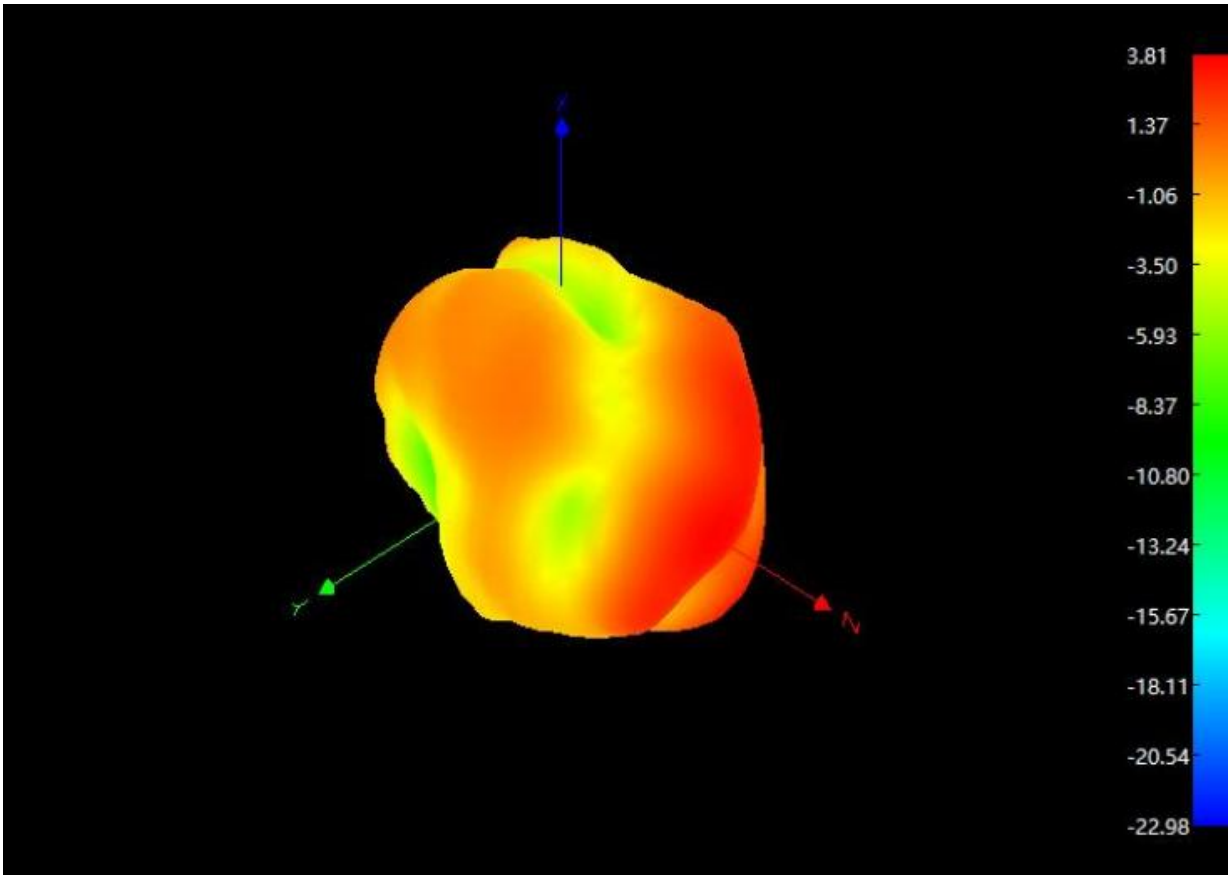
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1.37
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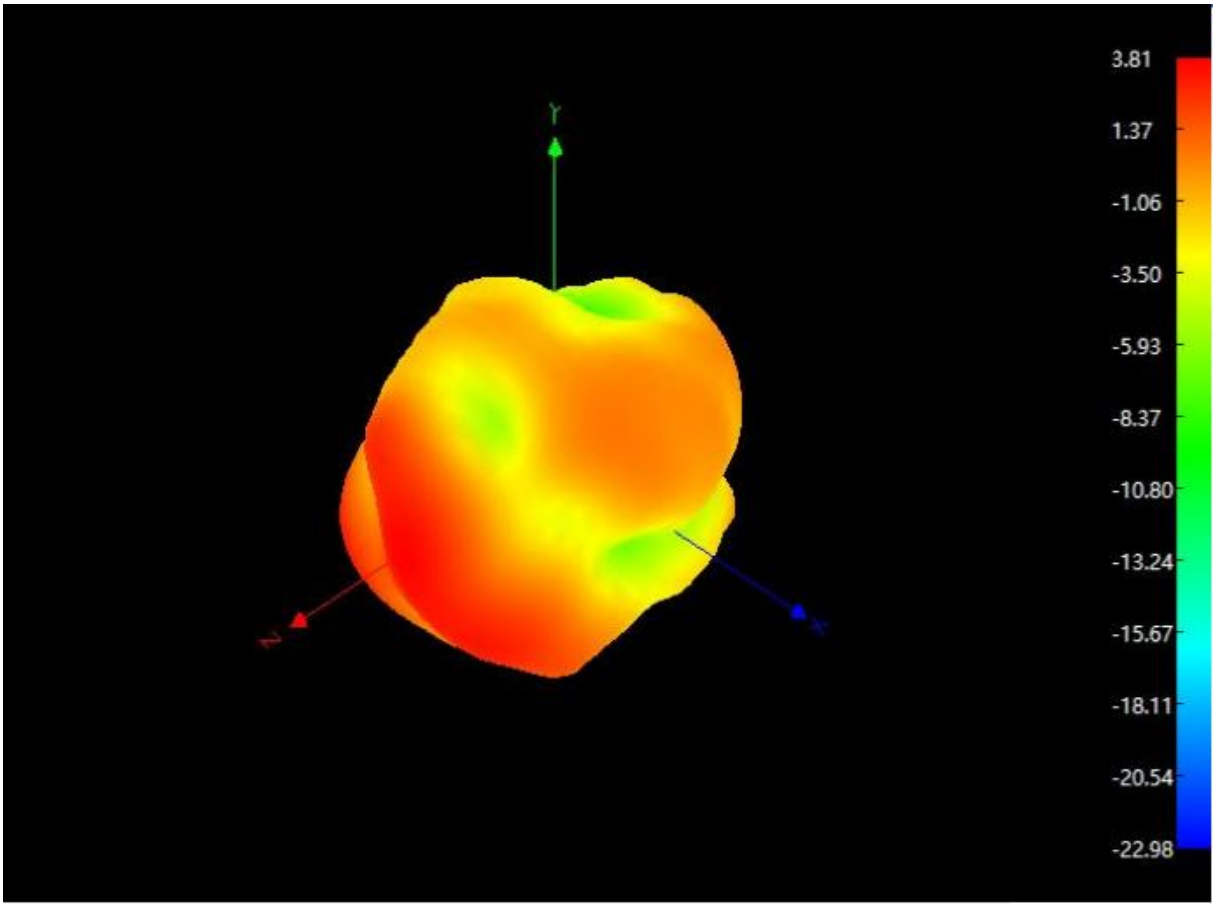
-15.67
-18.11
-20.54
-22.98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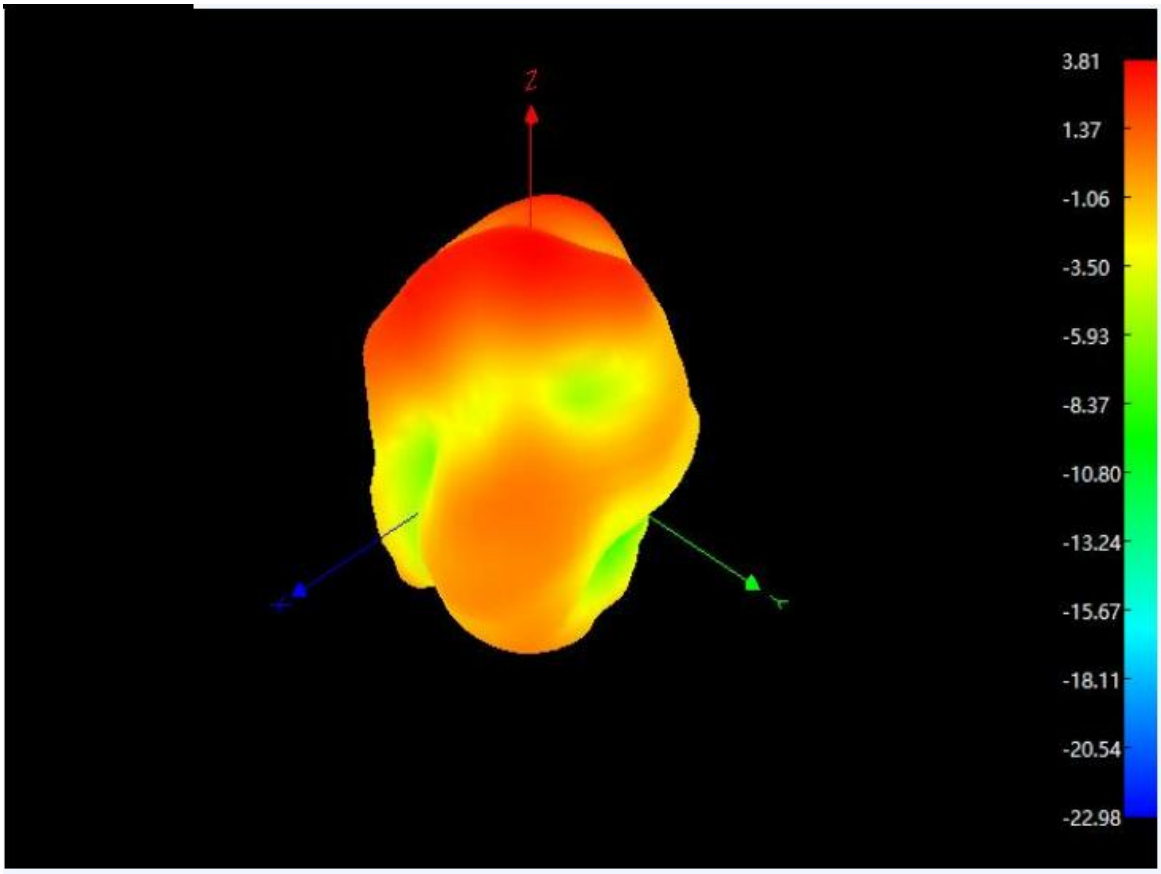
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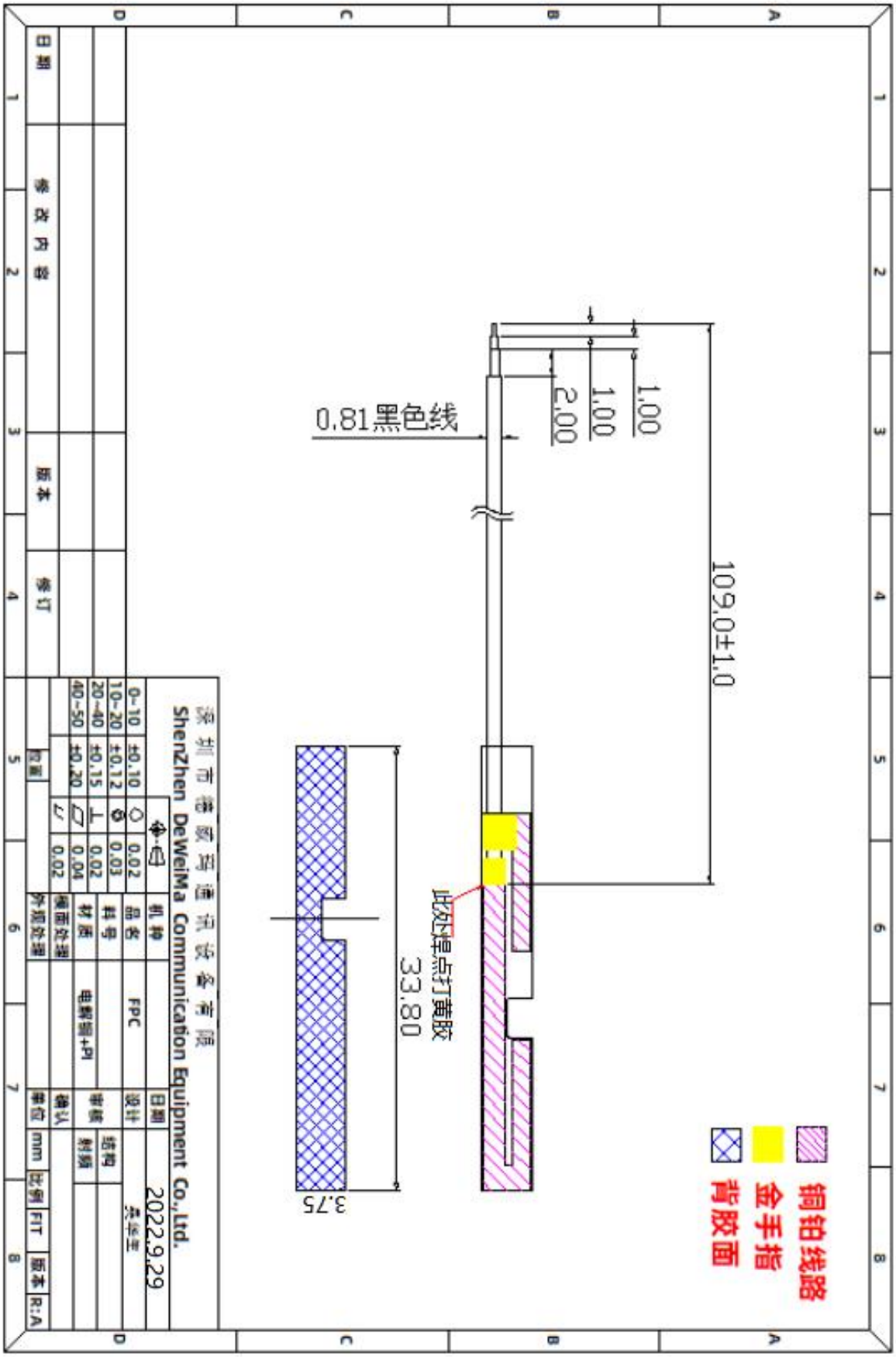
Antenna structure diagram: