

# SPECIFICATION



*Shenzhen Daxian Technology Co., Ltd.*

**Cosonic CE-2188N Bluetooth antenna**

## Product Specification

connection	Cosonic	frequency range	2400 ~ 2500MHz
entry name	CE-2188N	edition	/
Material No	1E-2188N-008	Color	Natural color
Customer Item Number	300116190201C00		
R F Design	Yuanqing.Zhu	Structural Design	Ruibin.Zhou
Quality Manager	Jin.Yang	Technical Director	Lei.Zhang
Date	2024-4-16		

Customer confirmation:

Whether the assembly meets your company's requirements: OK NG

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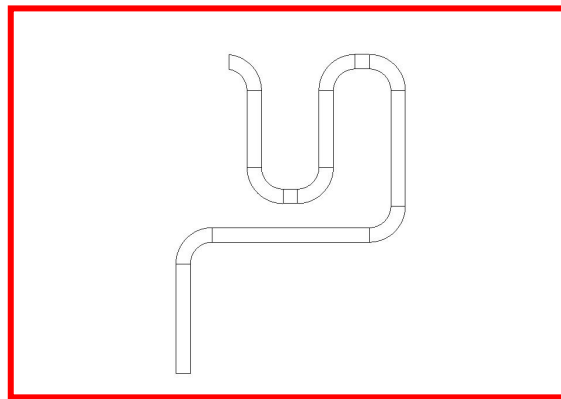
## I、 Project Description

<b>Customer Name:</b>	cosonic
<b>Type of complete machine:</b>	Battery Pack
<b>Antenna band:</b>	2400 ~ 2500MHz
<b>Antenna form:</b>	ironware
<b>Feed form:</b>	soldered
<b>Number of feed legs:</b>	one

### IV 、 BT Antenna

#### 1 、 specifications

This report mainly provides the testing status of various electrical and structural performance parameters of the antenna for the CE-2188N project. The following image shows an antenna with a large display design.



**antenna appearing diagram**

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## IV、 The Equipment of Active Test

Satimo 3D Chamber 6×4×4( m )

Agilent 8960 E5515c

Network analyzer-R&S ZVL



**Figure 2**

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### 3 test

#### 3.1 The Test of standing Wave (VSWR)

**3.1.1 The Test of standing Wave (VSWR):** In turn, the connection of the VSWR testing device is as follows: RES ZVL Network Analyzer / testing Line / testing tool

**Actual measurement (with diagram)**

#### 3.2 Measurement of Efficiency, Power (TRP) and Sensitivity (TIS)

##### 3.2.1 Test site:

Large-scale microwave darkroom. The test frequency range is 400MHz / 6GHz, the static range is 50cm circumferential and the reflectivity is less than-50 dB..

##### 3.2.2 Test instrument:

Rs ZVL Network Analyzer, Agilent8960 E5515C, Standard Horn Antenna, French SATIMO-SG24SYSTEM system, Printer, etc.

**3.2.3 test data : In microwave anechoic chambers, the power and sensitivity values measured are shown in the following table:**

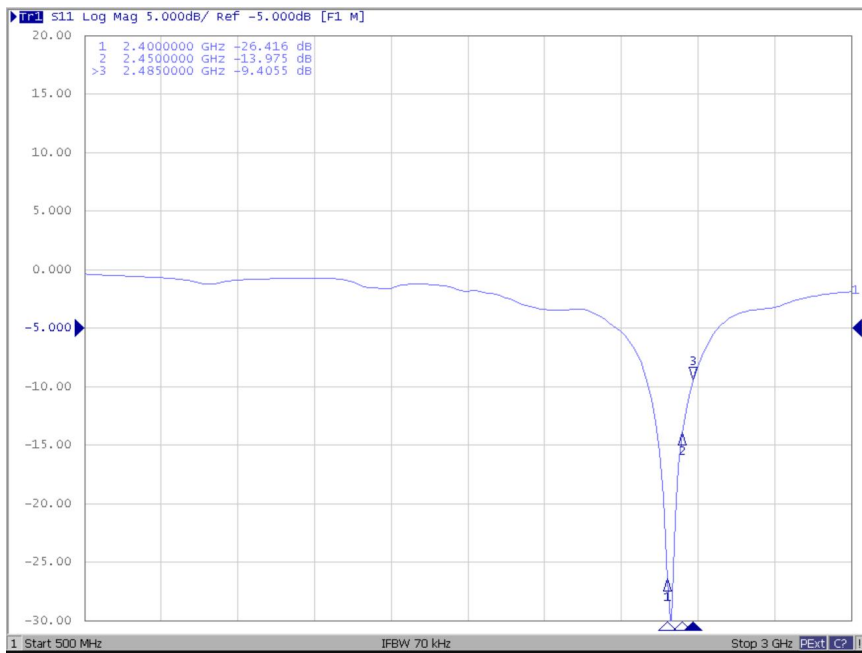
**OTA Active Test:**

CH	TRP (dBm)	TIS (dBm)
0	3.56	-89.16
39	4.13	-90.68
78	4.49	-89.74

**Passive efficiency&gain:**

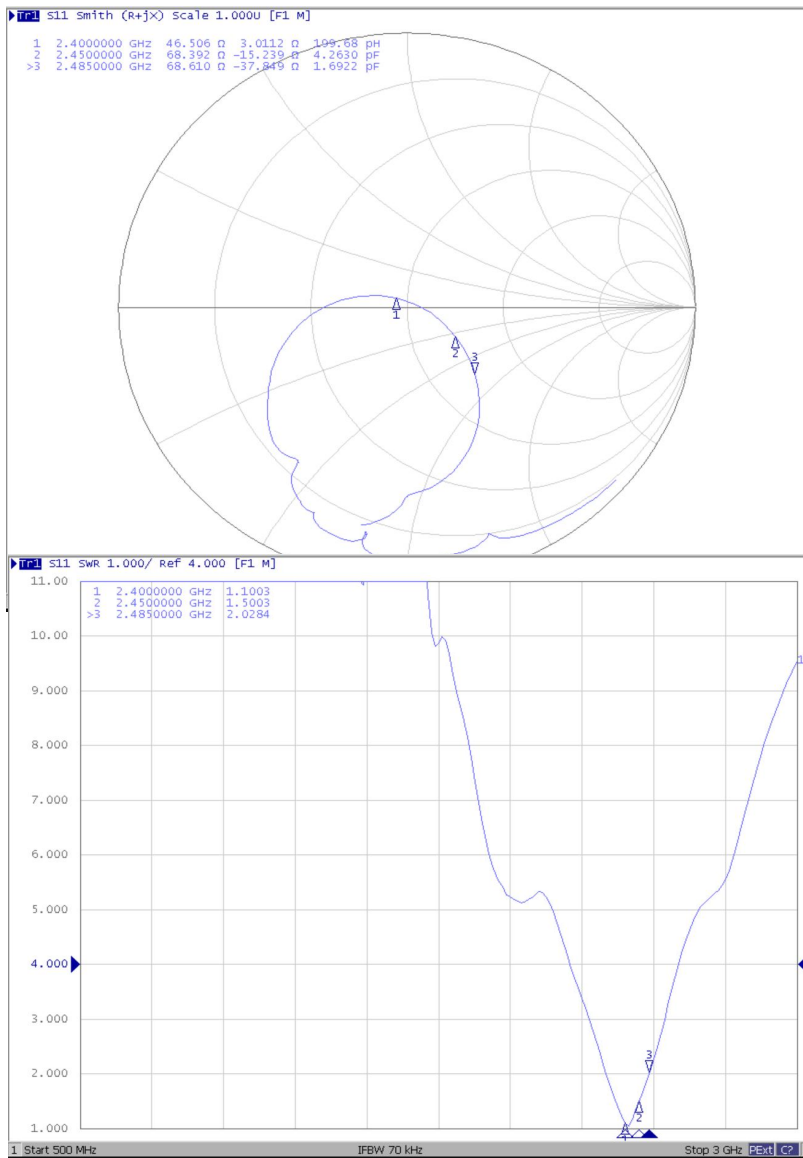
Frequency (MHz)	AVG Gain (dB)	Efficiency (%)	Gain (dBi)
2400	-4.85	32.73	-0.21
2410	-4.84	32.82	-0.29
2420	-4.86	32.64	-0.56
2430	-4.78	33.23	-0.88
2440	-4.73	33.64	-0.72
2450	-4.62	34.49	-0.34
2460	-4.69	33.95	-0.25
2470	-4.88	32.48	-0.3
2480	-5.04	31.35	-0.41
2490	-4.99	31.88	-0.45
2500	-5.01	31.66	-0.48
<b>AVG</b>	<b>-4.84</b>	<b>32.8</b>	<b>-0.44</b>

**4、VSWR parameter diagram**



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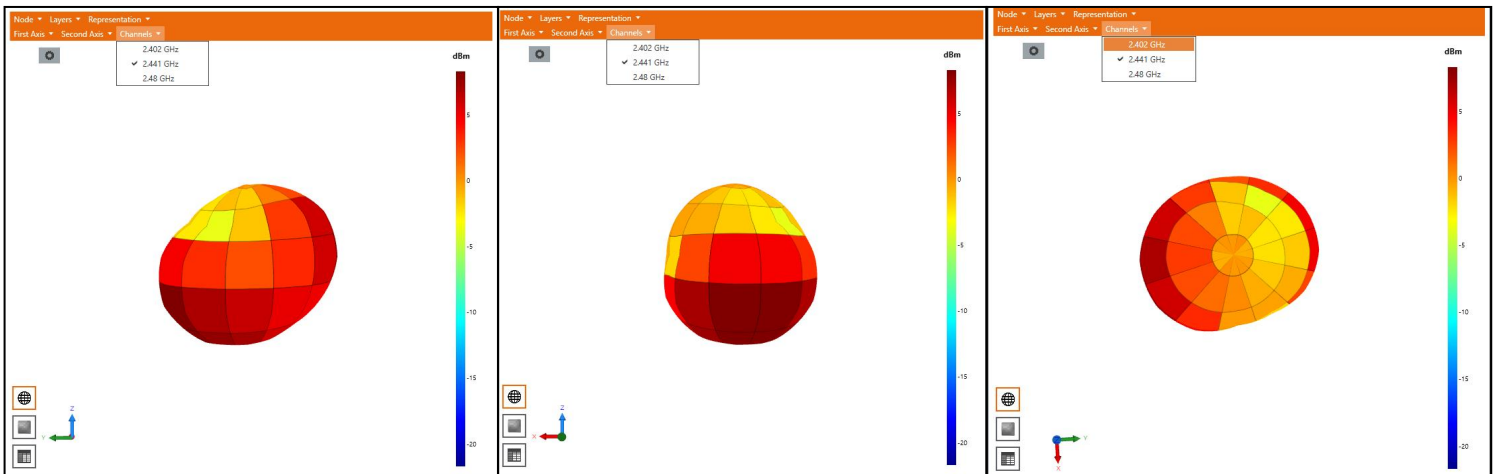
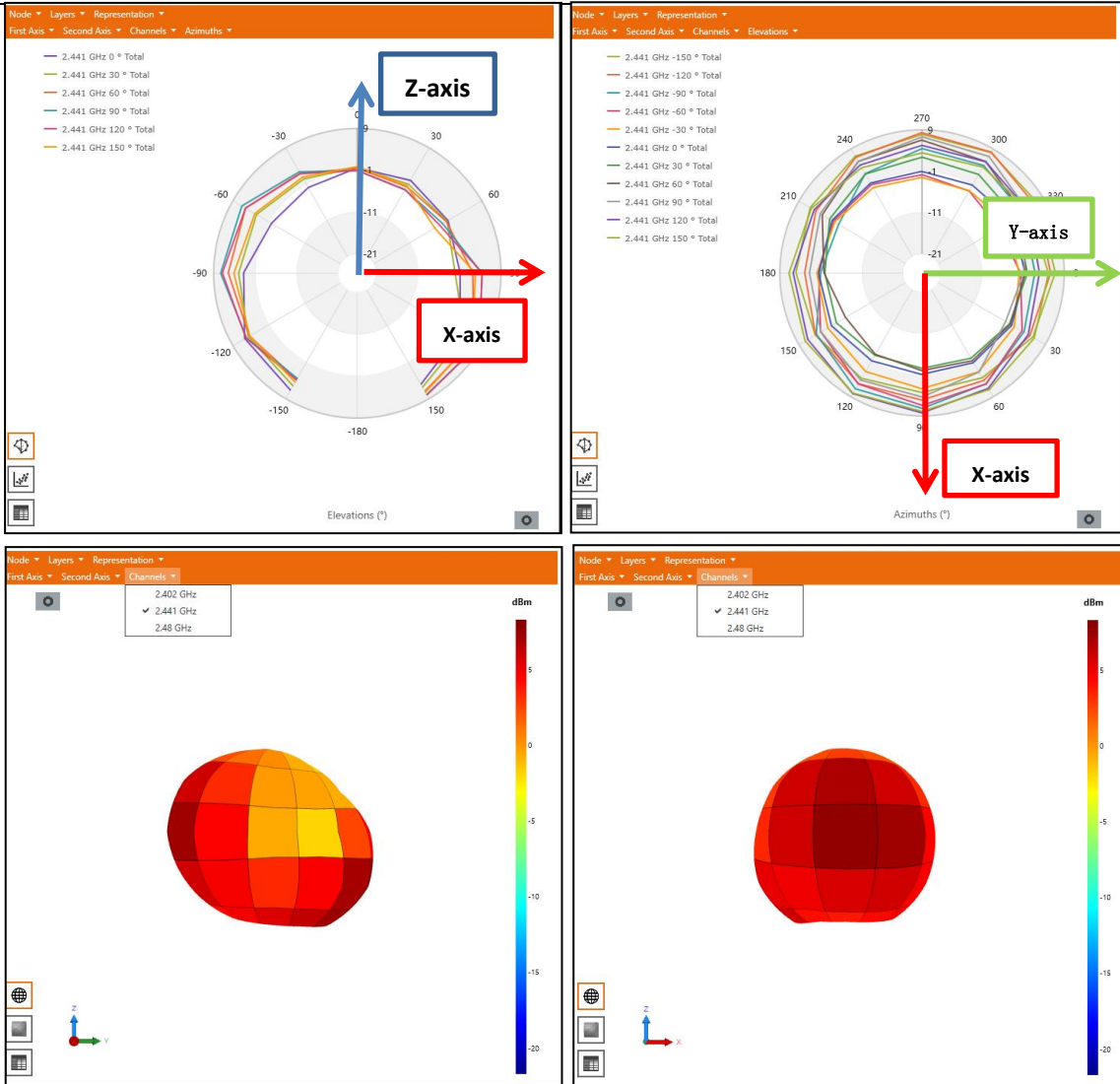
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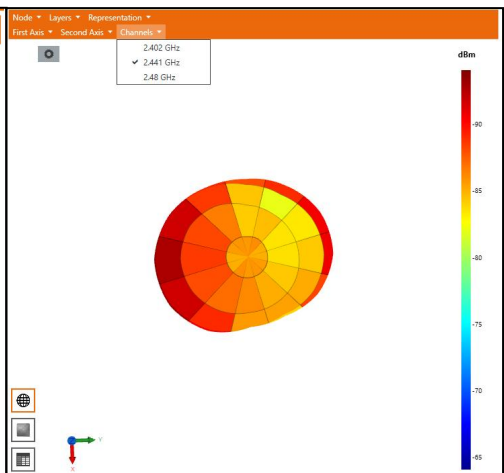
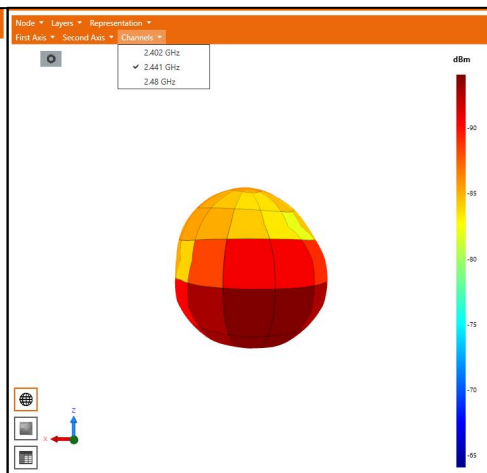
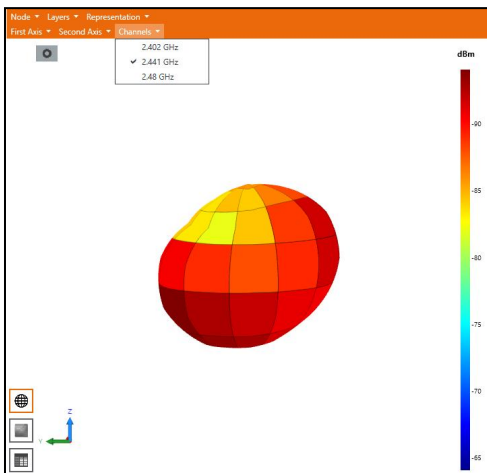
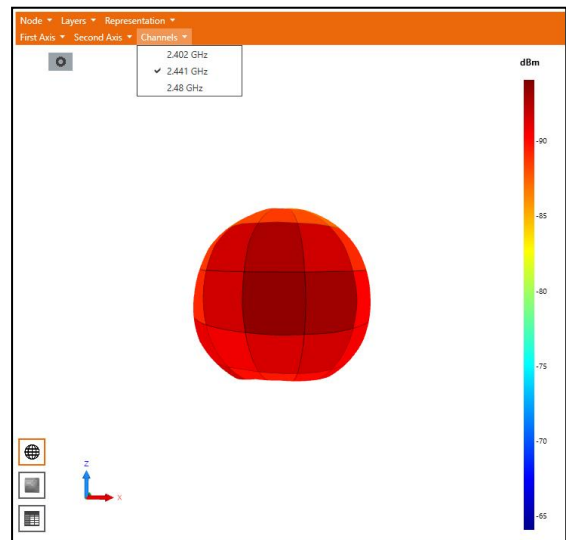
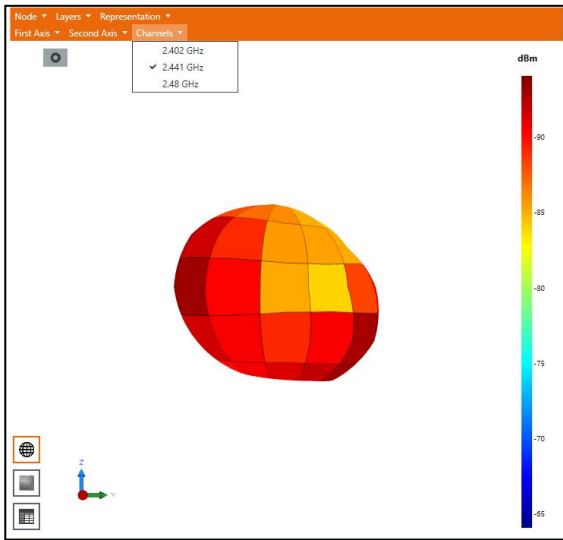
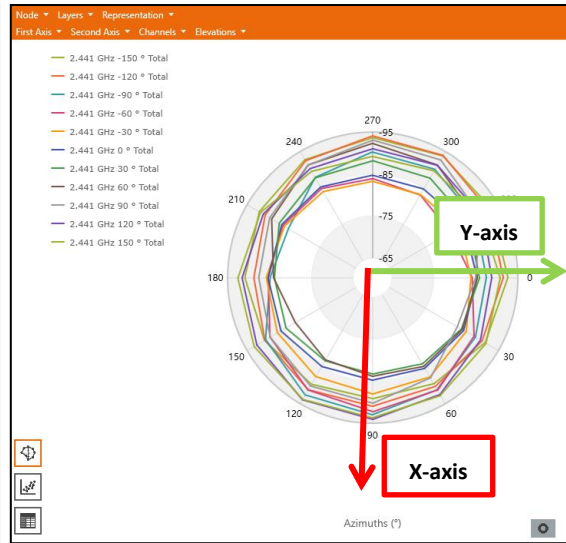
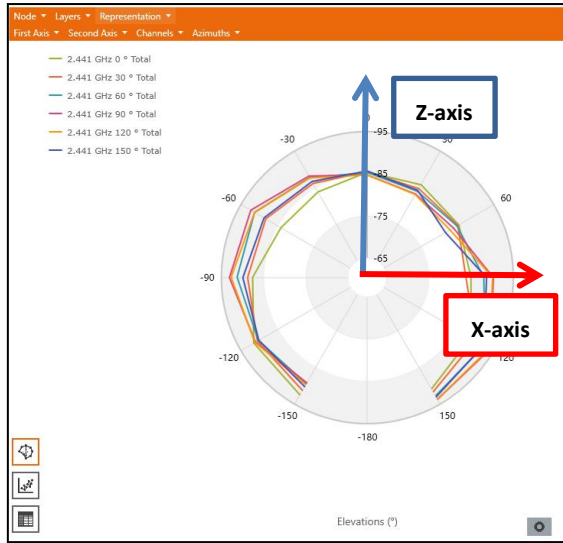
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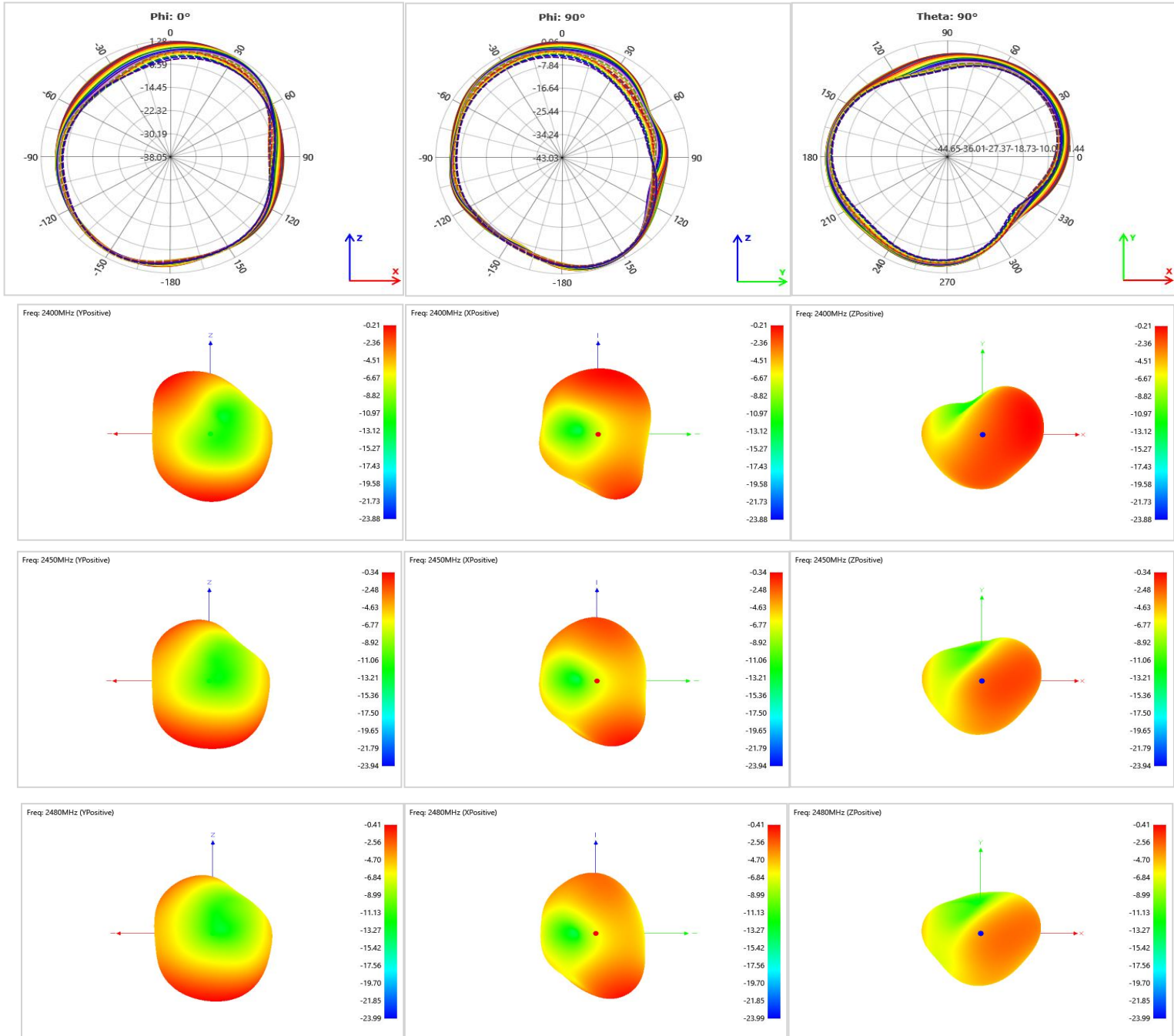
TIS



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## 6、Passive field pattern diagram



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