

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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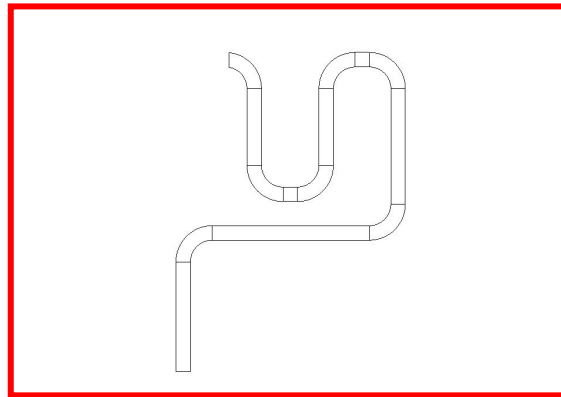
I、Project Description

Customer Name:	cosonic
Type of complete machine:	Battery Pack
Antenna band:	2400 ~ 2500MHz
Antenna form:	ironware
Feed form:	soldered
Number of feed legs:	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 $6 \times 4 \times 4$ (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

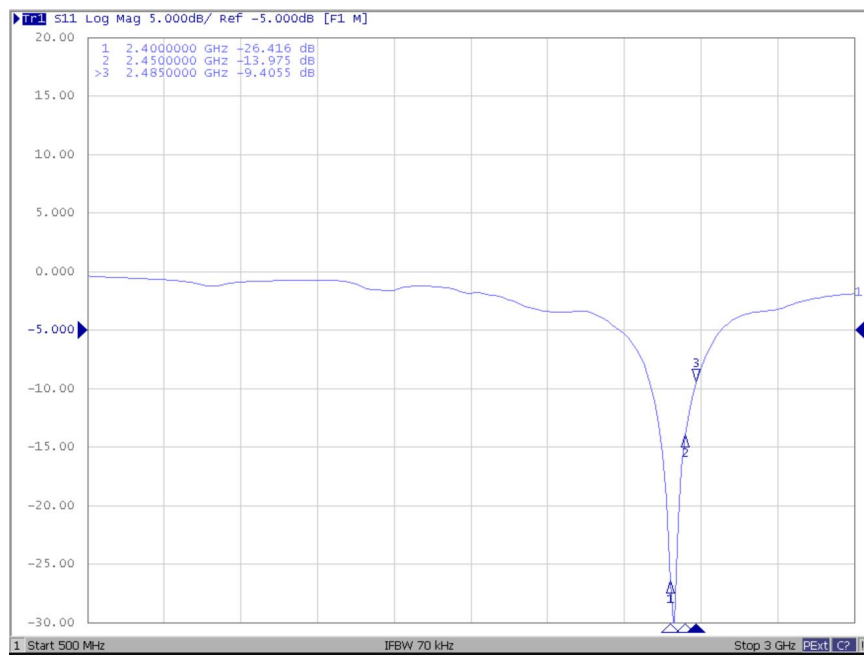
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Passive efficiency&gain:

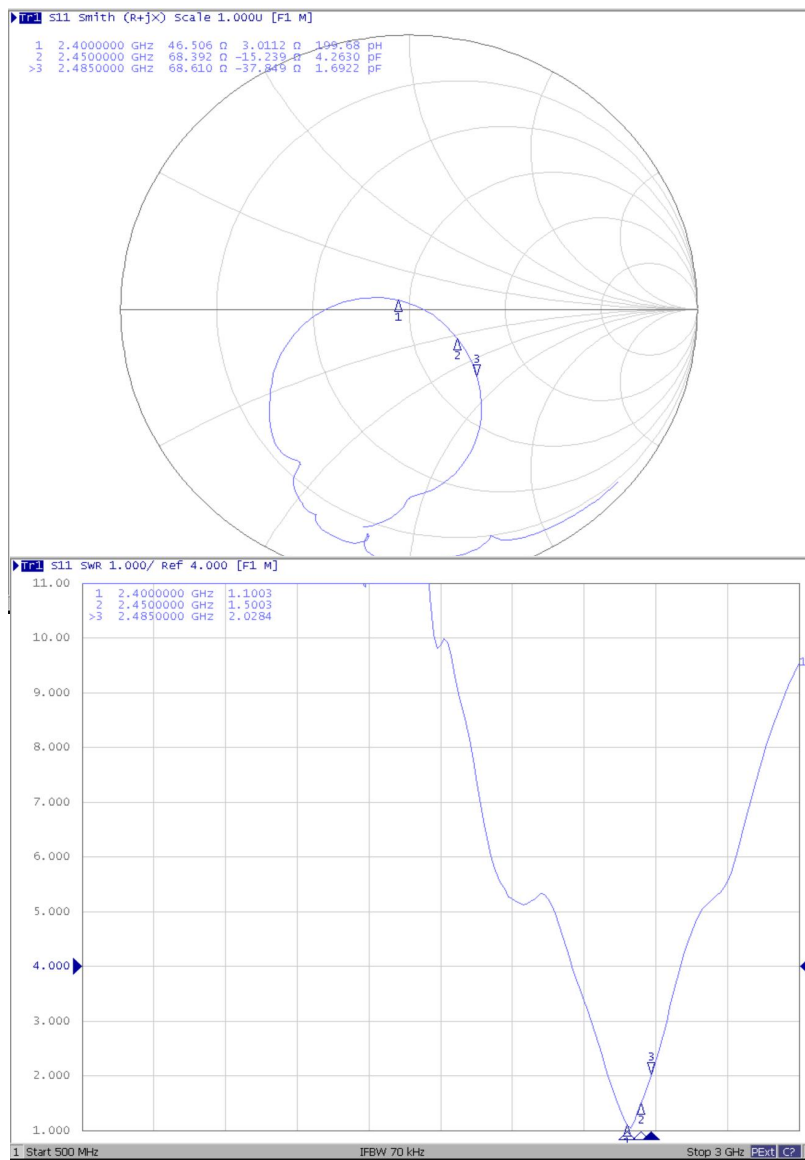
Frequency (MHz)	AVG Gain (dB)	Efficiency (%)	Gain (dBi)
2400	-4.85	32.73	-0.21
2410	-4.84	32.82	-0.29
2420	-4.86	32.64	-0.56
2430	-4.78	33.23	-0.88
2440	-4.73	33.64	-0.72
2450	-4.62	34.49	-0.34
2460	-4.69	33.95	-0.25
2470	-4.88	32.48	-0.3
2480	-5.04	31.35	-0.41
2490	-4.99	31.88	-0.45
2500	-5.01	31.66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

4、VSWR parameter diagram

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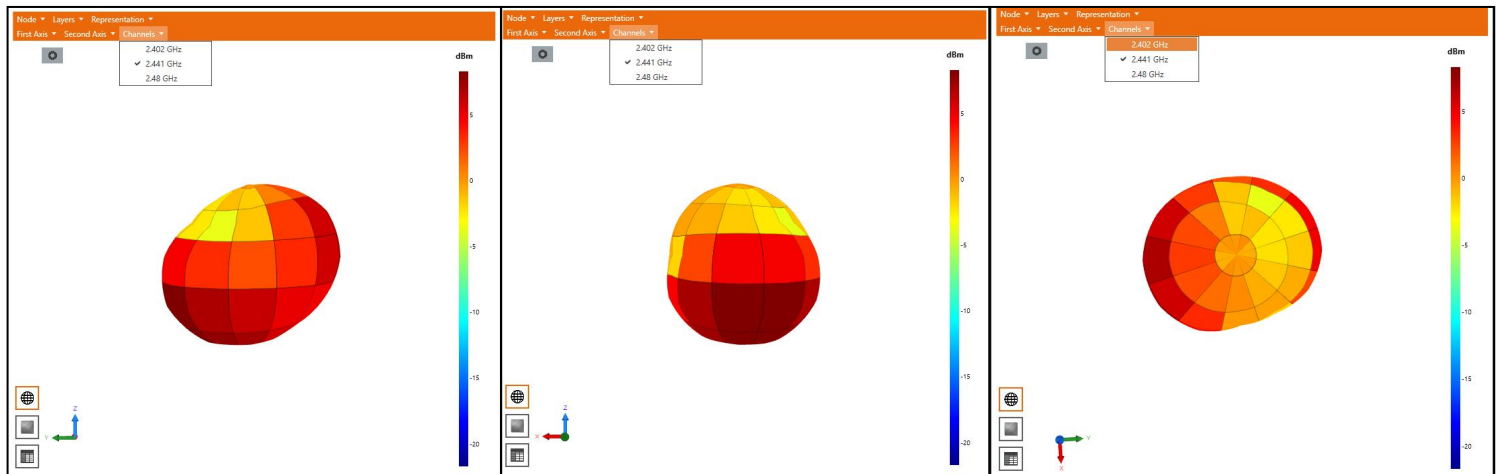
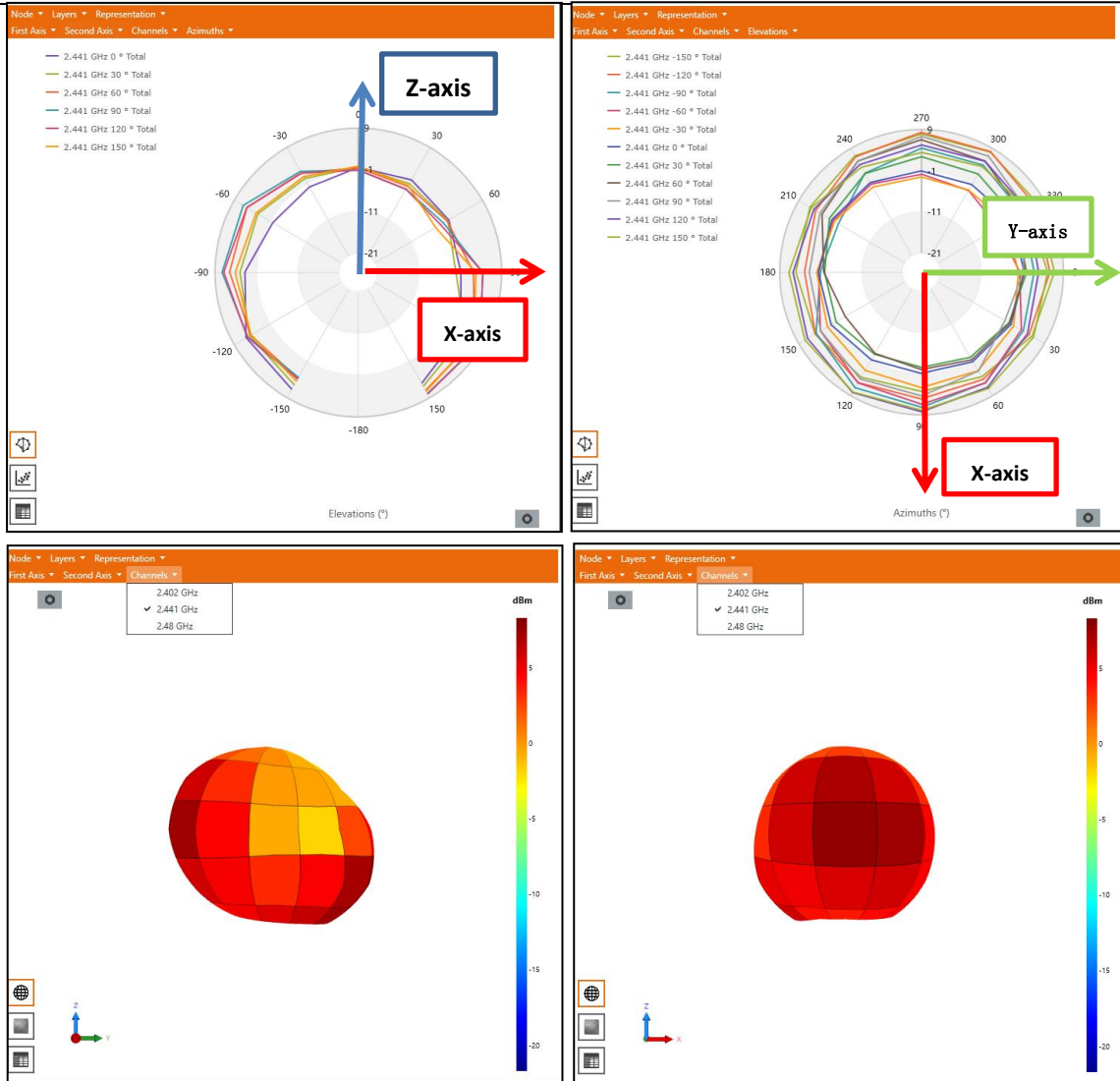
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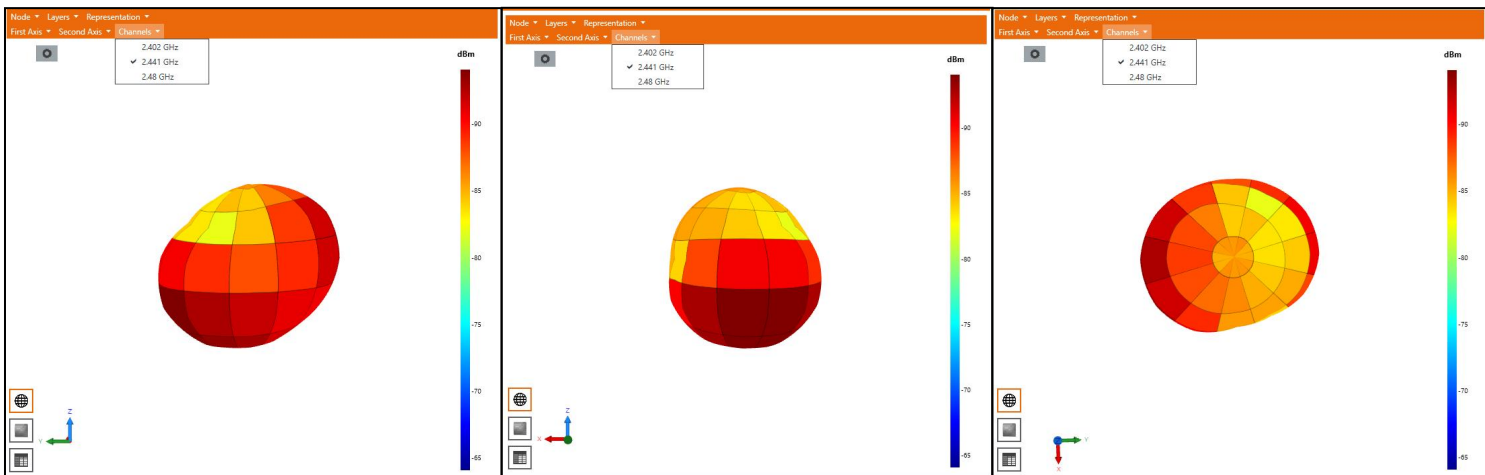
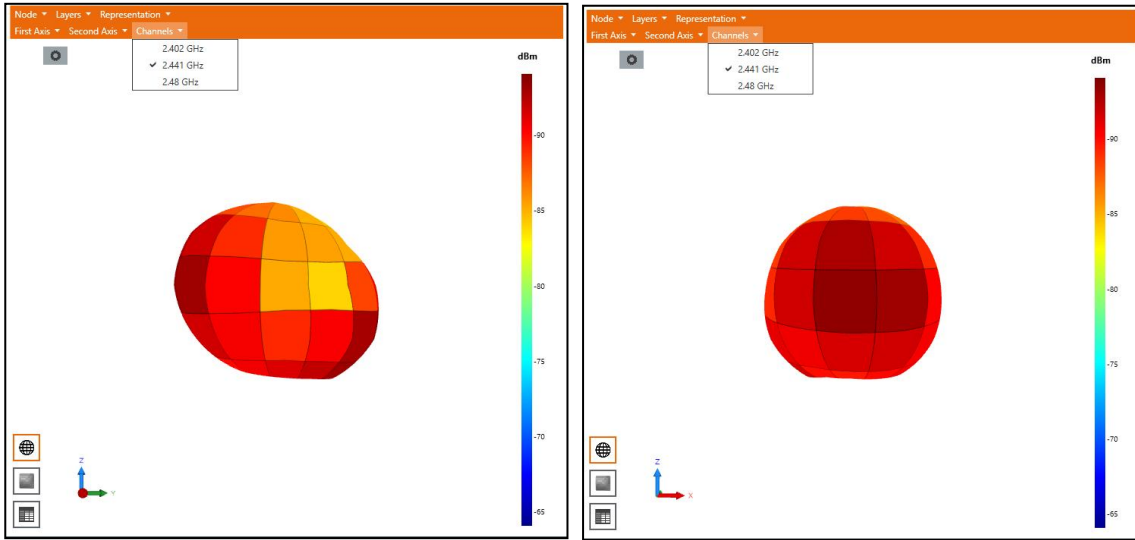
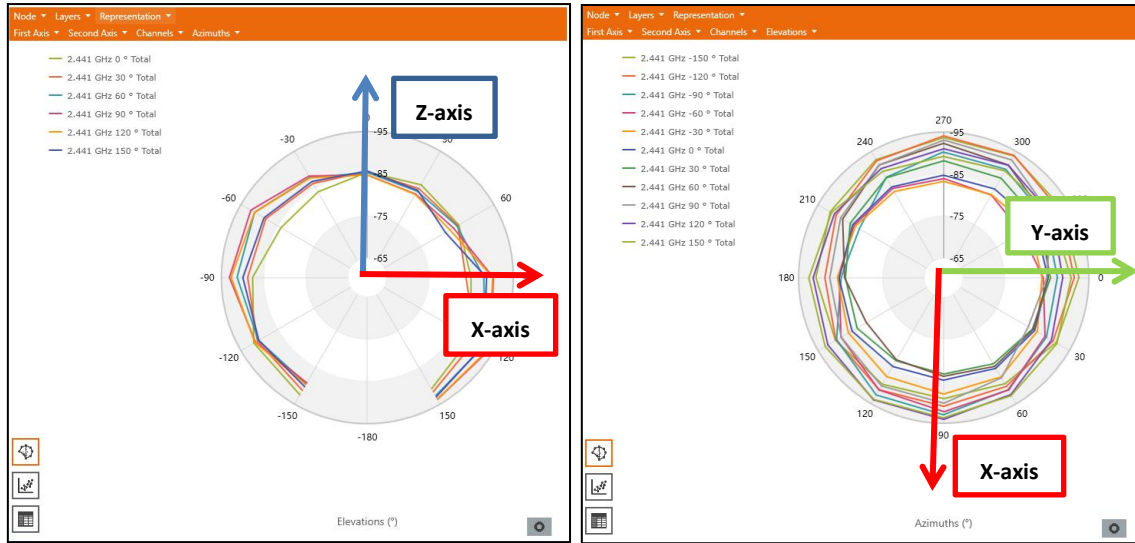
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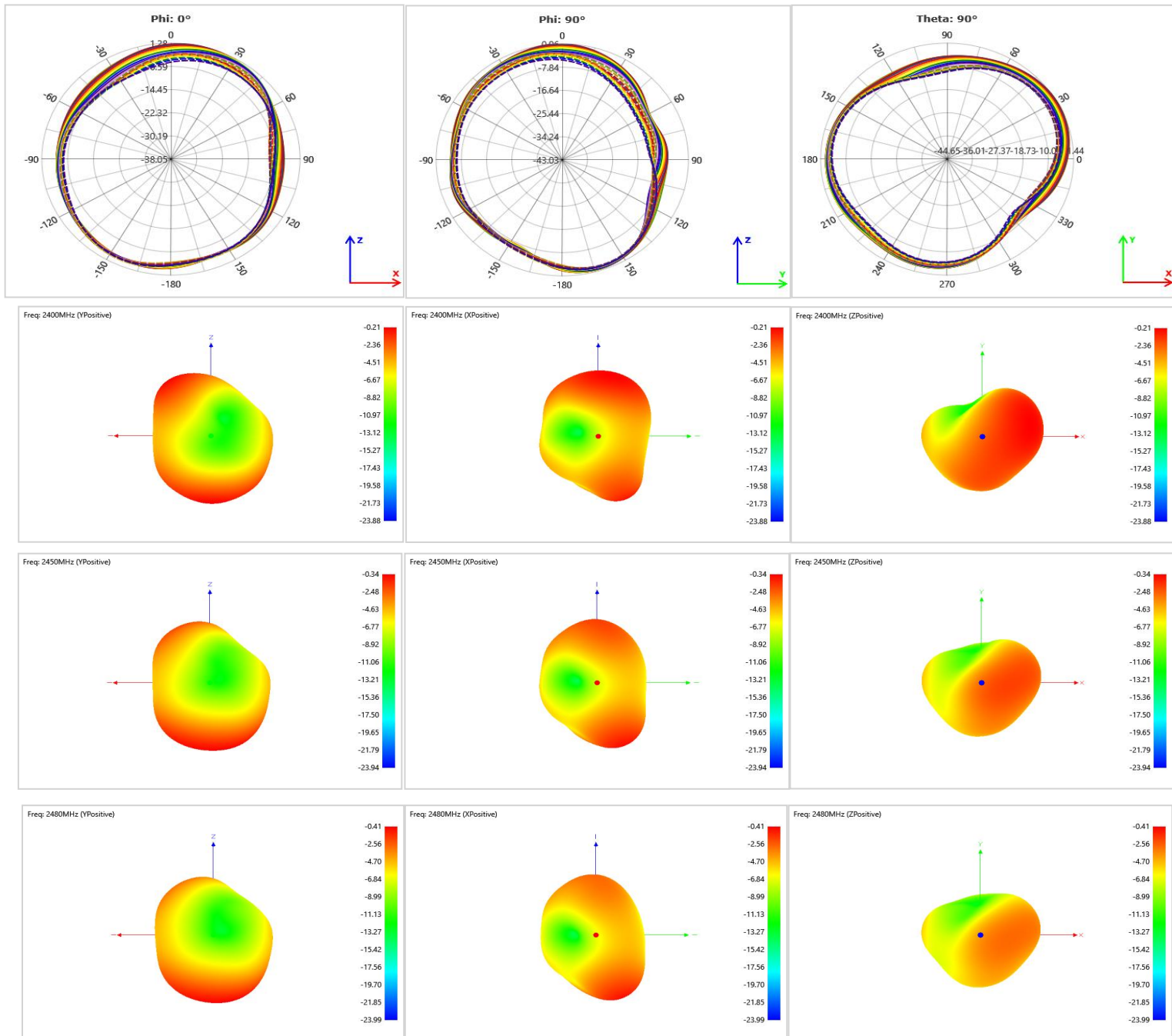
TIS



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6、Passive field pattern diagram



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