

SPECIFICATION



Shenzhen Daxian Technology Co., Ltd.

CE-2190B

Client	佳禾	frequency range	2400MHz~2500MHz
product name	CE-2190B	Version	V1.0
Code	2E-2190B-020	Color	Yellow
R F	靳 群	Structural design	周锐斌
QA	杨 进	Technical Director	张 磊
Date	2024-04-19		

深圳市大显科技有限公司

Shenzhen Topant Technology Co., Ltd.

深圳市龙岗区布吉镇吉华路 513 号上水径村（国防培训基地对面）达成工业园综合楼 7 楼

TEL:0755-28576002

FAX:0755-84276383

上海分部：上海市张江高科技园区集成电路产业区龙东大道 3000 号 8 号楼 201 室

TEL:021-61630552

FAX:755-84276383

Buji Town, Longgang District, Shenzhen, China
Jihua Road 513, Shangshuijing Village (opposite the national defense training base) Dacheng Industrial Park, Building 7.

TEL:0755-28576002

FAX:0755-84276383

Room201, Building8, LongDongRoad3000#, Semiconductor Industry Park, ZhangJiang Hitech Zone, ShangHai

TEL:021-61630552

FAX:755-84276383

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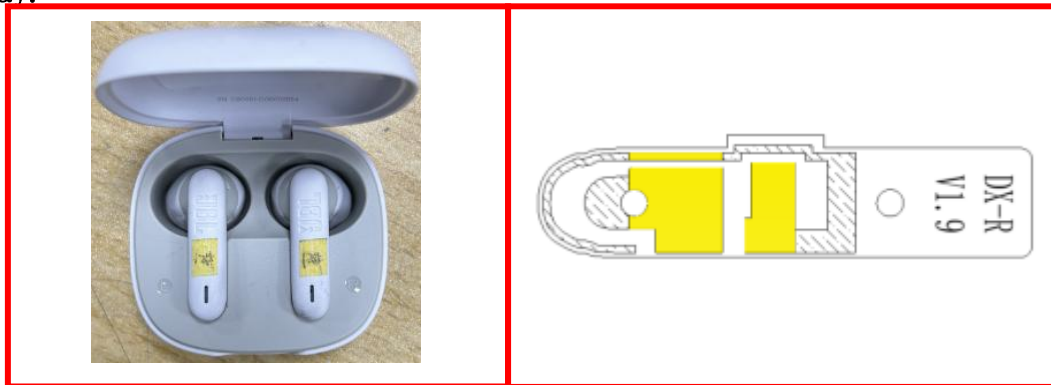
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— Project Description

Client:	佳禾
Type:	bluetooth headset
frequency:	2400 ~ 2500MHz
type:	FPC
Feed form:	welding

一、BT ANT

This report mainly provides various test results of the electrical performance of the CE-2190B project antenna. Figure 1 shows the antenna designed by the large display.



Overall appearance diagram Right antenna exterior view

Figure 1

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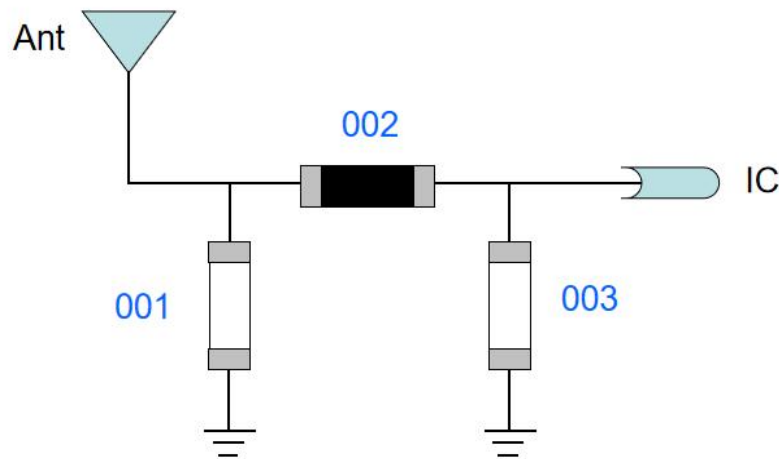
1.1 Electrical performance description

1.1.1 Electrical performance specifications

The frequency range of the antenna is 2400–2500MHz. The table below indicates the electrical performance specifications of the antenna.

Frequency Range	Frequency (MHz)	VSWR
BT	2400 ~ 2500	≤ 2

1.1.2 Matching circuit



主板匹配: L&R 都没有做更改, 均改为如下状态:

001: N/C

002: 0欧姆

003: N/C

1.2 Structural Specification Standards

1.2.1 Antenna Composition

The antenna is mainly composed of FPC.

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2、The Equipment of Active Test

Satimo 3D Chamber $6 \times 4 \times 4$ (m)

Agilent 8960 E5515c

Network analyzer-R&S ZVL



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3 TESTING

3.1 VSWR

Actual measurement (attached diagram)

3.2 Testing of Efficiency, Power (TRP), Sensitivity (TIS)

3.2.1 Testing site:

Da Xian microwave darkroom. The testing frequency range is 400MHz to 6GHz, the quiet zone range is 50cm circumference, and the reflectivity is less than -50 dB.

3.2.2 Testing instruments:

R&S CMW500 、 Agilent's 8960, network analyzer E5071C, standard horn antenna, French SATIMO-SG24SYSTEM system, printer, etc.

3.2.3 Test data: In the microwave anechoic chamber, the values related to power and sensitivity tested are shown in the table below:

Free space active testing:

R边-自由空间		
CH	TRP (dBm)	TIS (dBm)
0	3.8	-85.21
39	3.97	-86.19
78	3.37	-84.77

R边-头模状态		
CH	TRP (dBm)	TIS (dBm)
0	-2.43	-78.22
39	-2.89	-78.47
78	-3.75	-78.27

Passive efficiency testing:

Frequency (MHz)	AVG Gain (dB)	Efficiency (%)	Gain (dBi)
2400	-11.41	7.22	-7.37
2410	-10.86	8.2	-6.82
2420	-10.83	8.26	-7.06
2430	-10.25	9.44	-6.75
2440	-9.83	10.41	-6.3
2450	-9.61	10.94	-6.17
2460	-9.52	11.16	-6.09
2470	-9.58	11.02	-5.97
2480	-9.46	11.33	-5.72
2490	-9.67	10.79	-5.74
2500	-9.78	10.52	-5.78

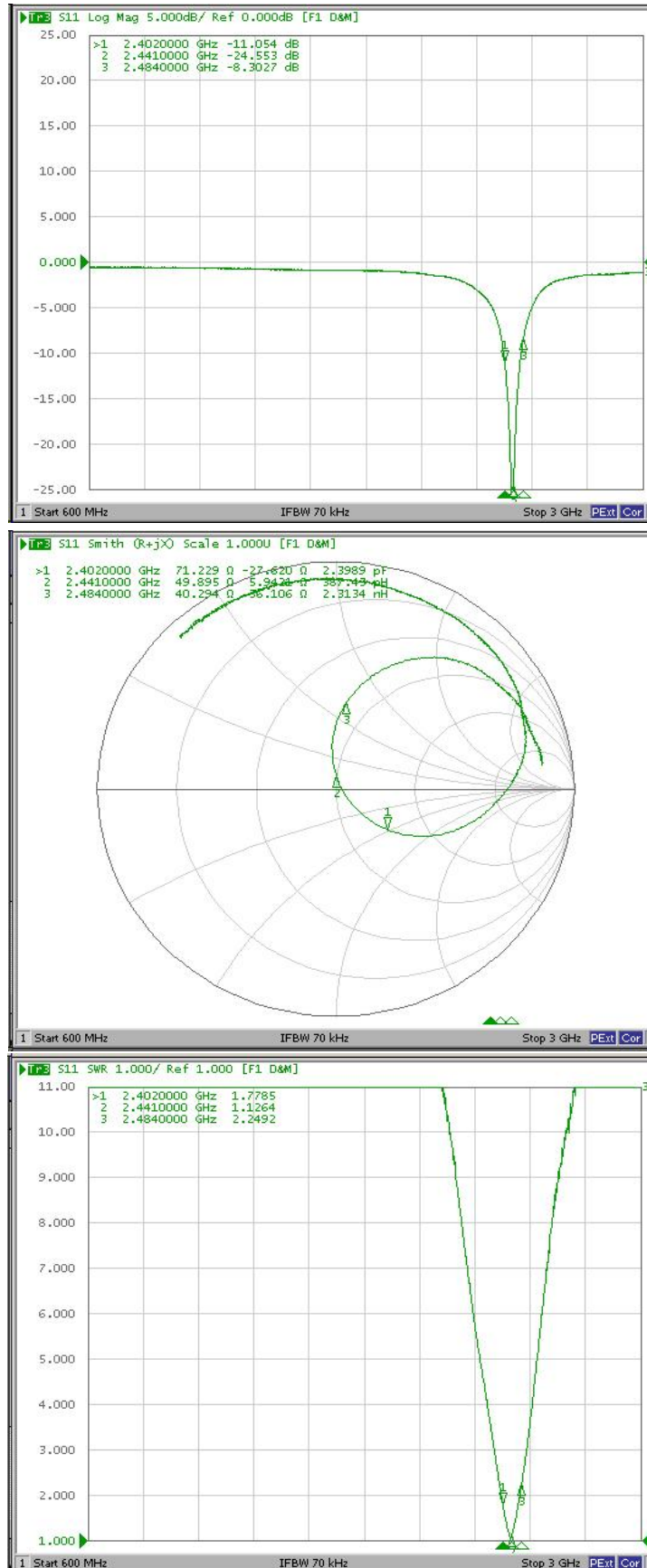
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5、Attachment chart

5.1 VSWR



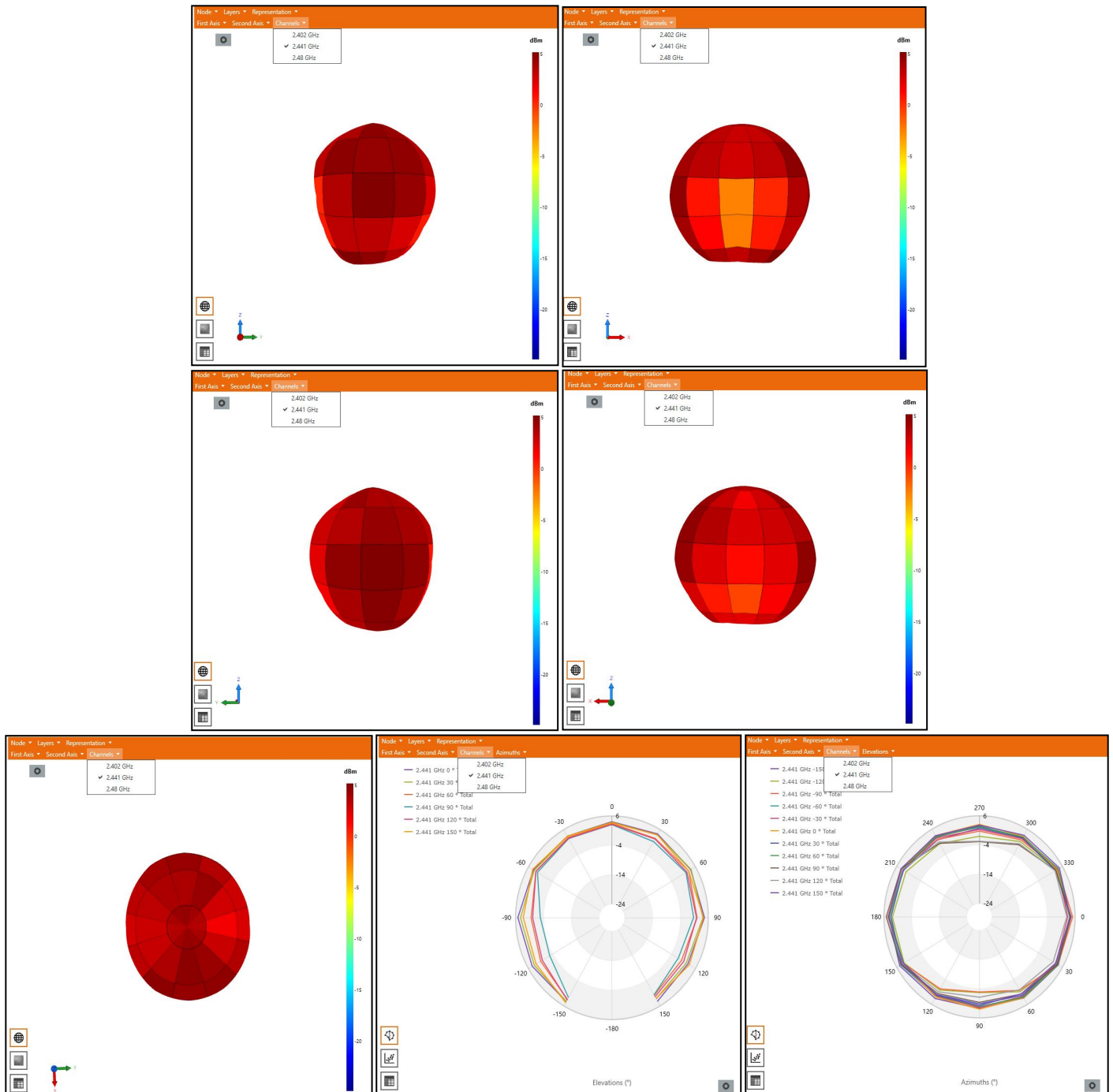
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6、 3D & 2D

TRP

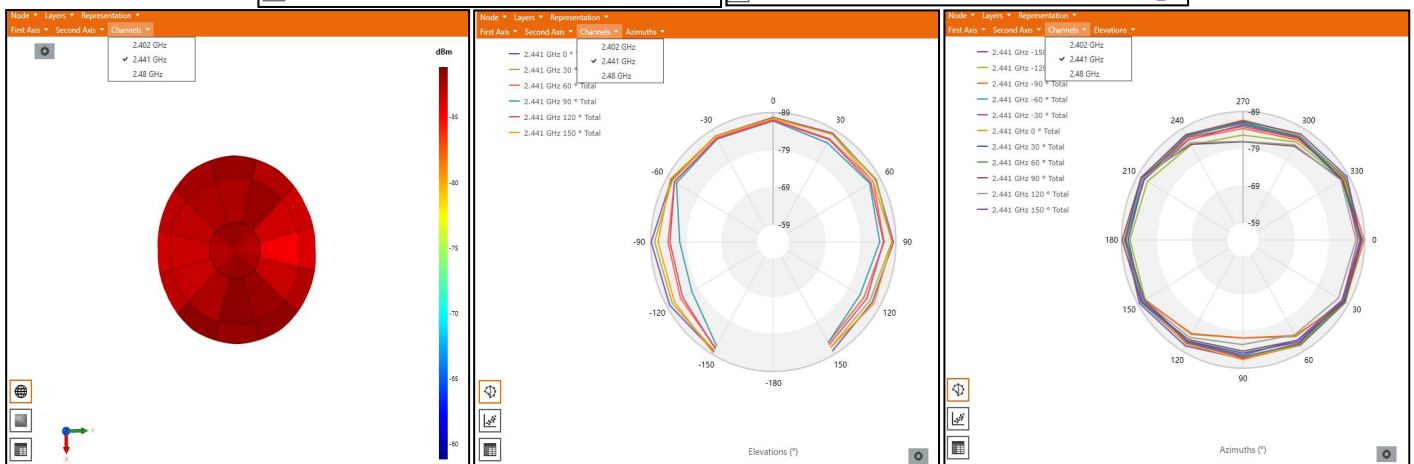
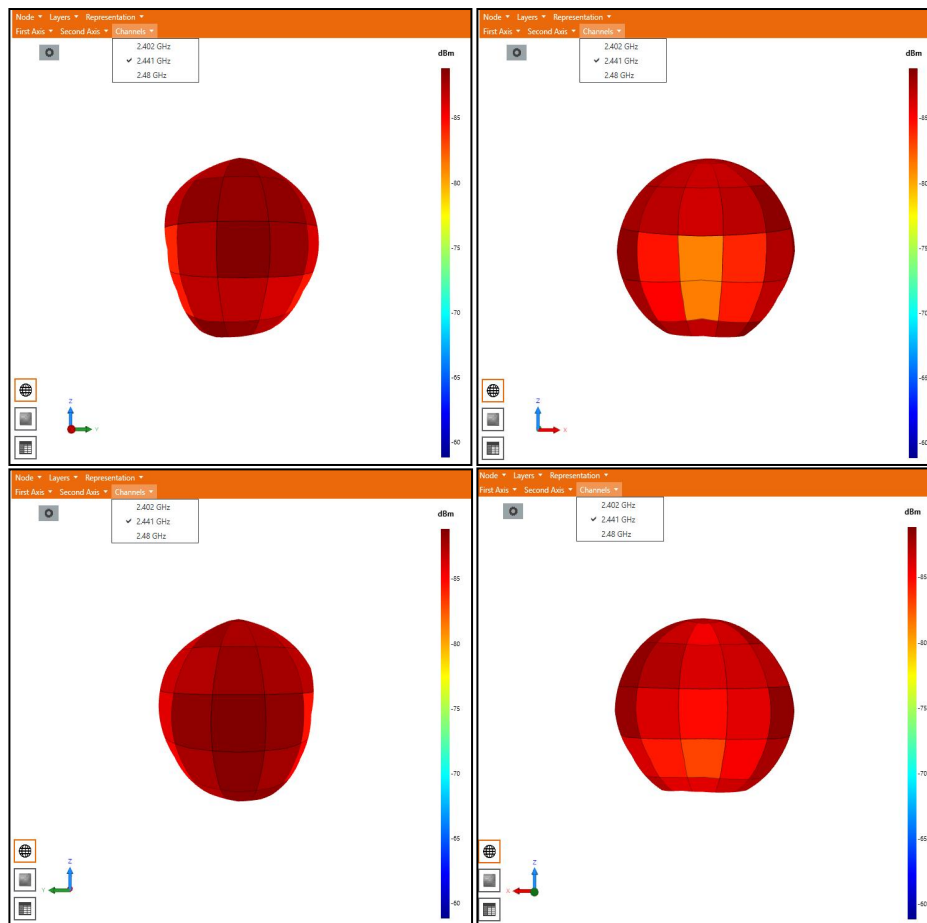


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TIS

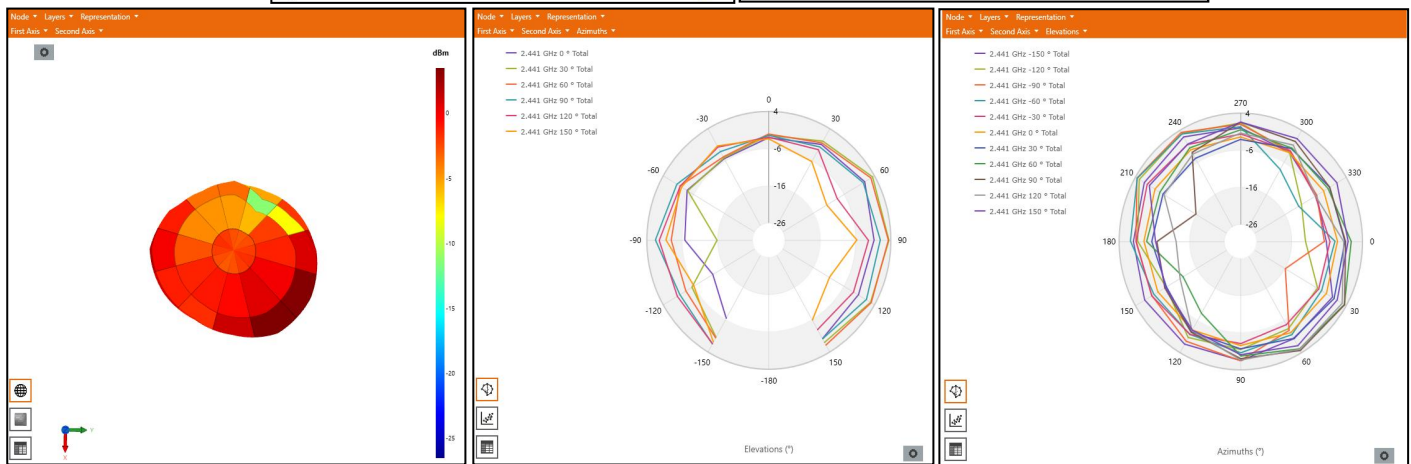
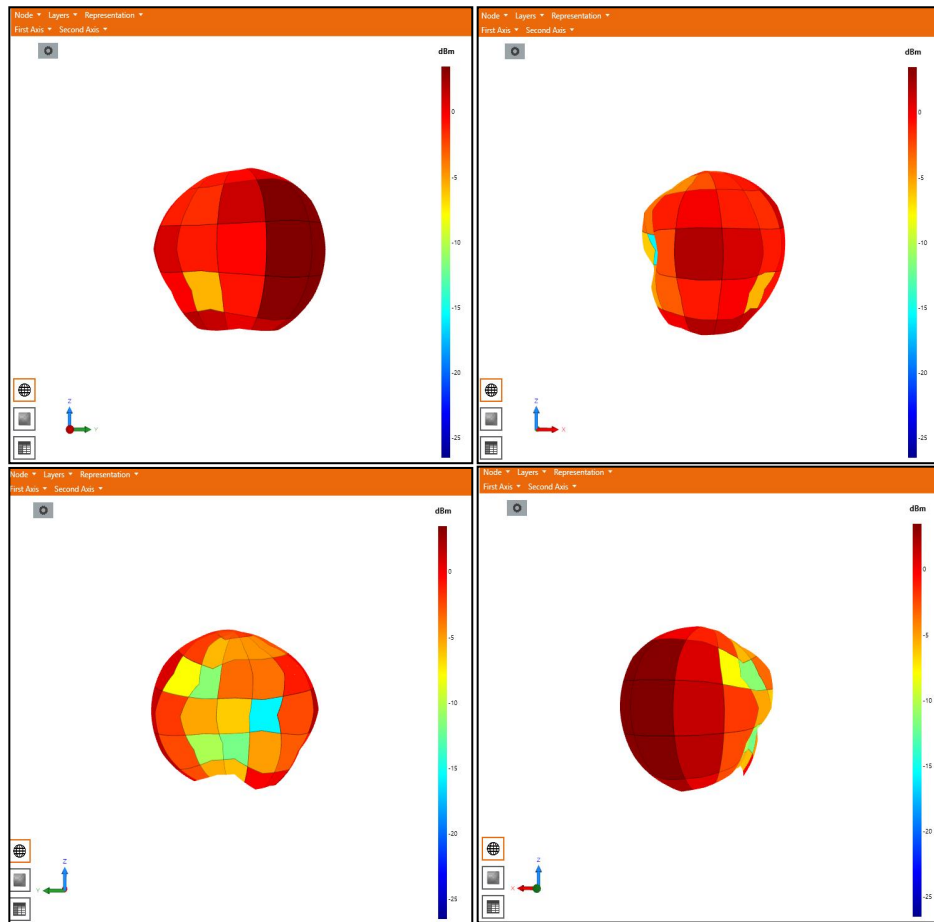


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TRP

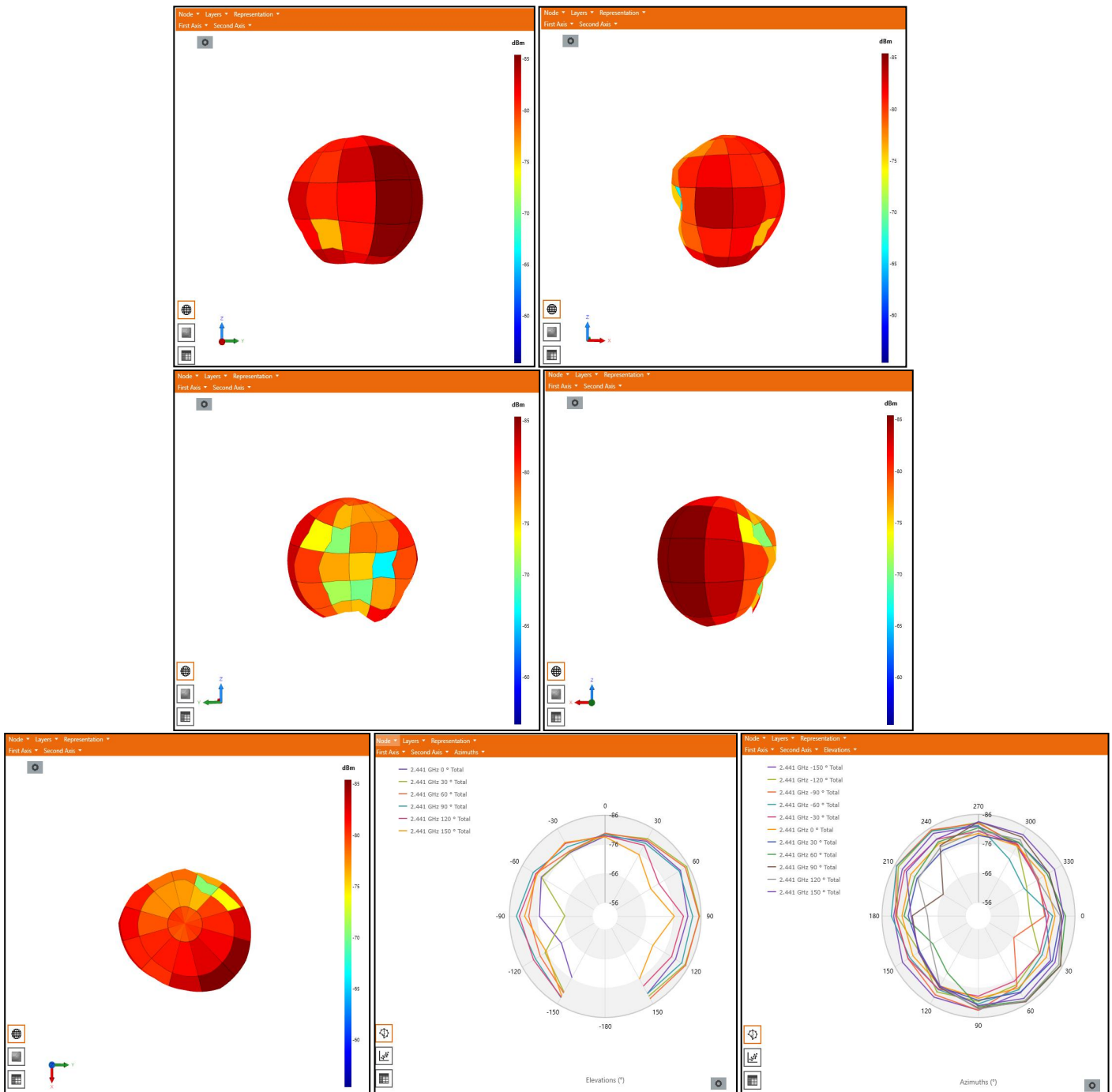


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TIS

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