

Manufacturer: Shenzhen Yingjichuang Electronic Technology Co., Ltd.
Address: Building C, Hongyu Guangming Valley, No. 11, Youma Gang Road, Ma Tian Street,
Guangming District, Shenzhen

Antenna test report

Customer Name: 802

Project model: SRC-4128

Date: 2025-11-26

edition	content	Update reason	Date
1.0	Antenna test	Initial issue	2025-11-26

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Project situation

Customer Name	802
Project name	SRC-4128
Number of antennas	1
Antenna band	2400–2500 MHz
Structural form	Onboard antenna

Original antenna and structure form

$$0.5+0.3+0.3+0.2*16+0.4$$
$$=4.7\text{cm}$$

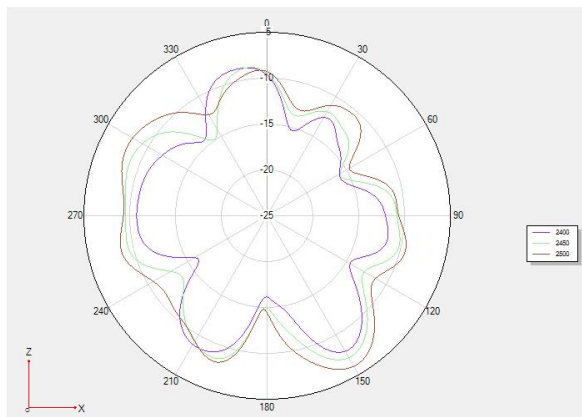




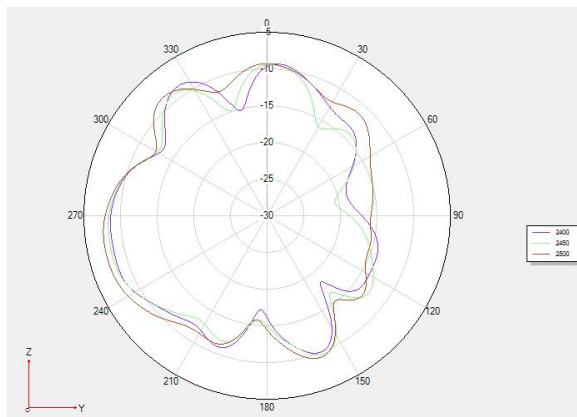
Frequency / MHz	Efficiency / %	Gain/ dBi
2400	7.83	-4.39
2410	8	-4.28
2420	8.18	-3.97
2430	8.38	-3.93
2440	8.59	-3.55
2450	8.87	-3.42
2460	9.29	-3.28
2470	9.71	-2.88
2480	10.12	-2.8
2490	10.91	-2.57
2500	11.27	-2.25

2D3D image of the original antenna test

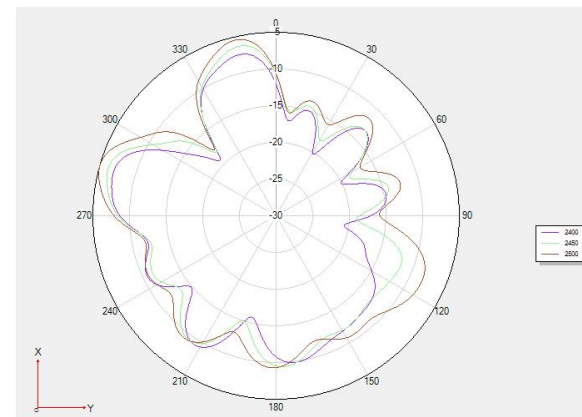
Phi 0 2Dfigure



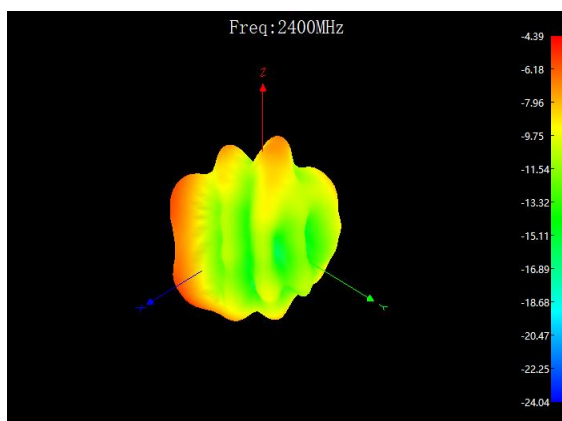
Phi 90 2Dfigure



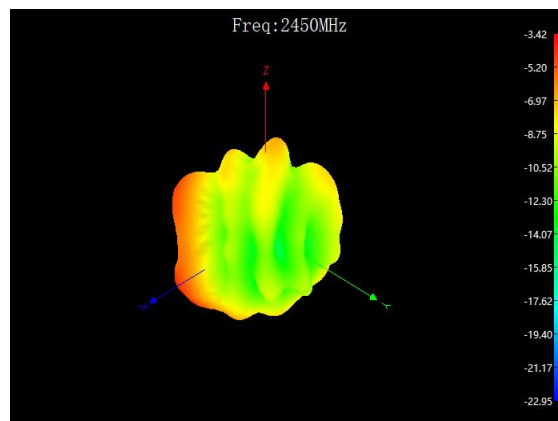
Theta 90 2Dfigure



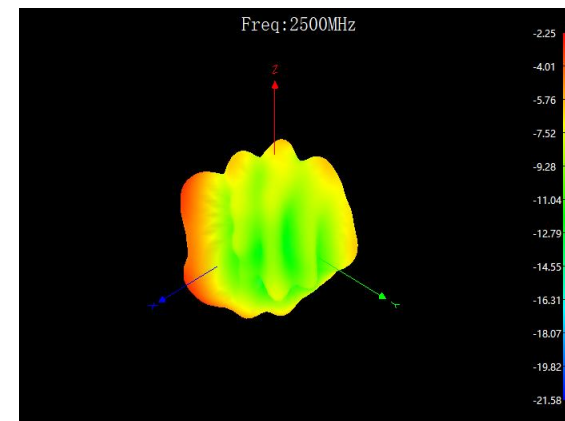
2400



2450



2500

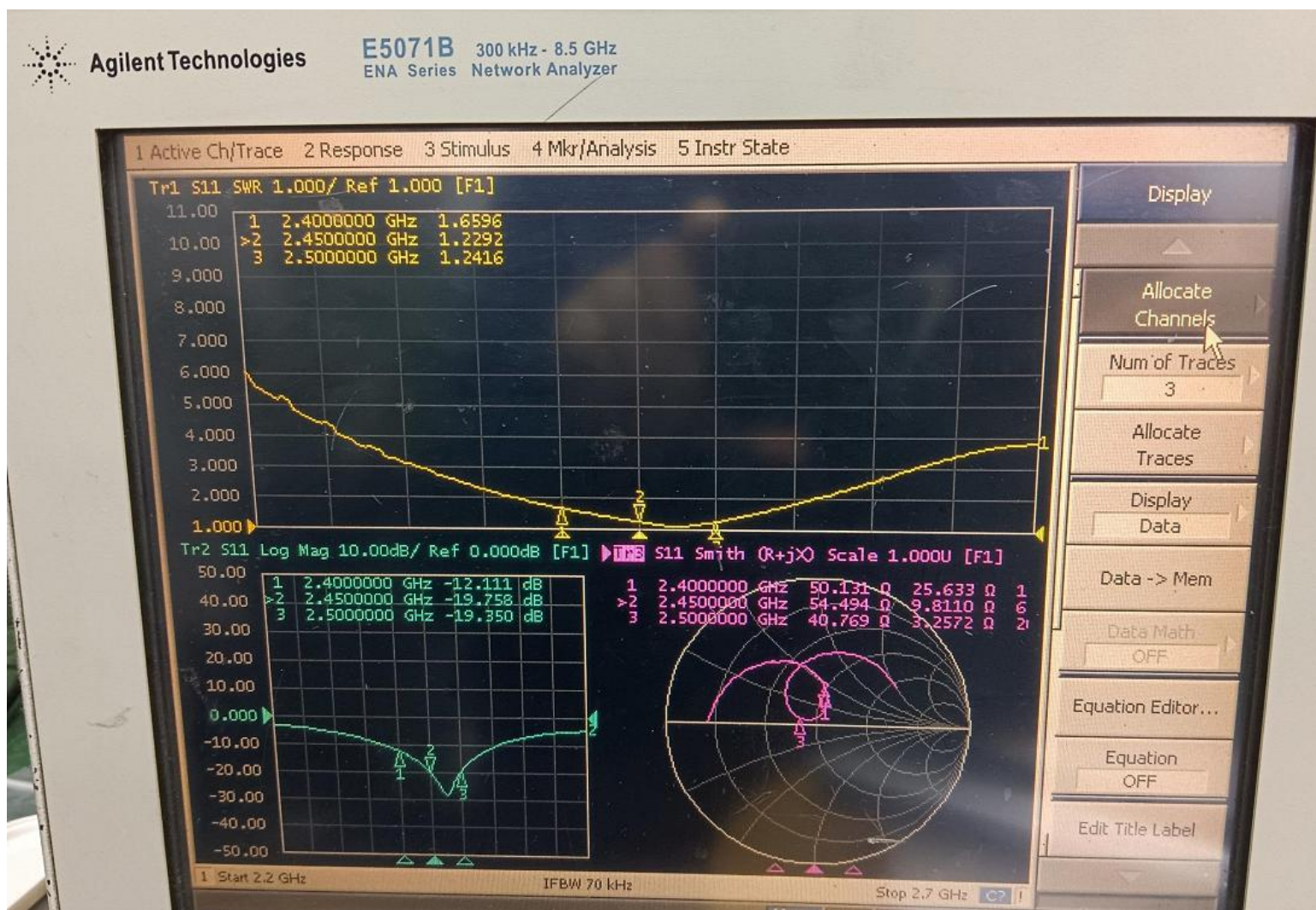


New antenna and structure form

Insert a 0.5pf capacitor at position R1 and remove the matching capacitor at the original C10 position.



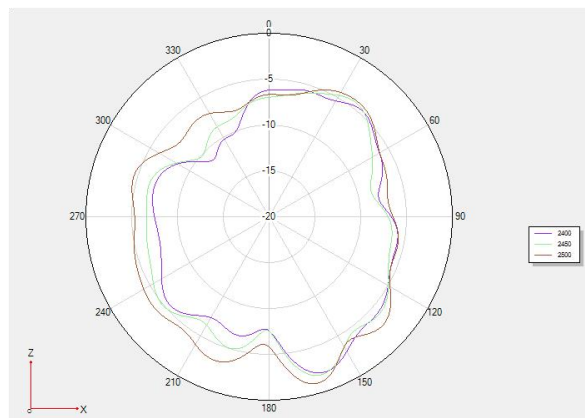
New antenna grid test diagram



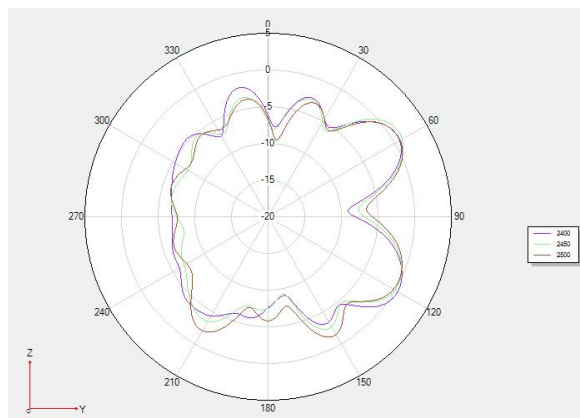
Frequency / MHz	Efficiency / %	Gain/ dBi
2400	41.92	0.81
2410	42.96	0.88
2420	44.91	1.03
2430	46.06	1.16
2440	49.41	1.23
2450	50.55	1.26
2460	47.56	1.08
2470	48.59	1.16
2480	48.09	1.12
2490	47.63	1.05
2500	48.46	1.04

New antenna test 2D3D image

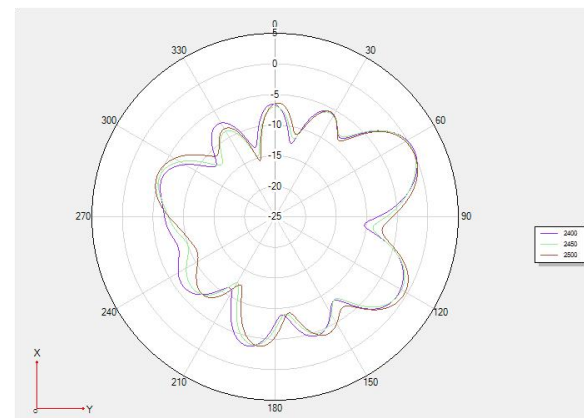
Phi 0 2Dfigure



Phi 90 2Dfigure



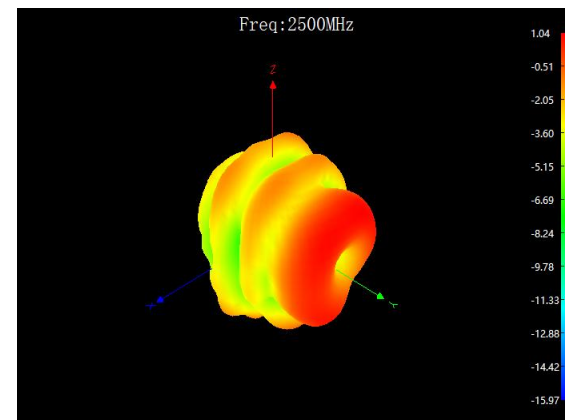
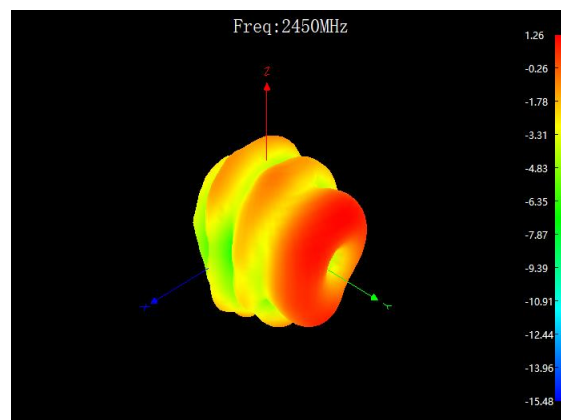
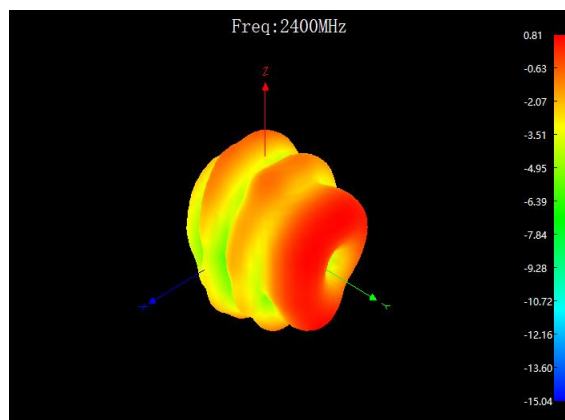
Theta 90 2Dfigure



2400

2450

2500





Thank you!

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