

Antenna test report

Customer Name:802

Project model:SRC-1909

Date:2025-4-28

edition	content	Update reason	Date
1.0	Antenna test	Initial issue	2025-4-28

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Project situation

Customer Name	802
Project name	SRC-1909
Number of antennas	1
Antenna band	2400–2500 MHz
Structural form	Onboard antenna

Original antenna and structure form

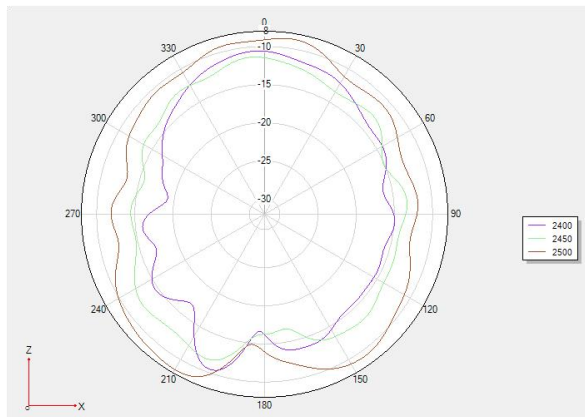




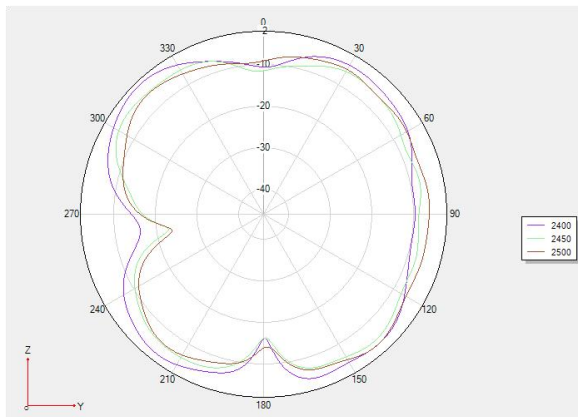
Frequency / MHz	Efficiency / %	Gain/ dBi
2400	25	-1.84
2410	22.96	-2.47
2420	20.46	-2.59
2430	19.72	-3.28
2440	18.41	-3.39
2450	16.29	-4.41
2460	14.62	-4.99
2470	17.66	-4.09
2480	16.48	-4.62
2490	16.94	-4.03
2500	15.81	-4.37

2D3D image of the original antenna test

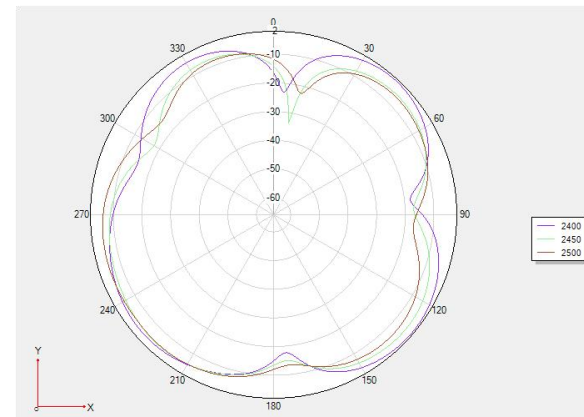
Phi 0 2Dfigure



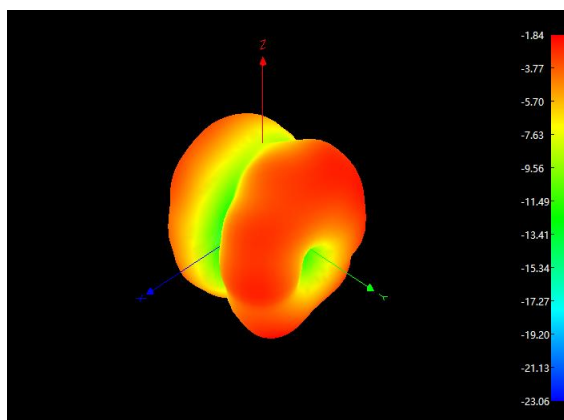
Phi 90 2Dfigure



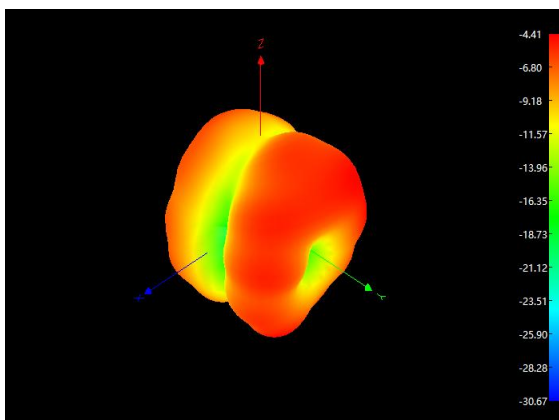
Theta 90 2Dfigure



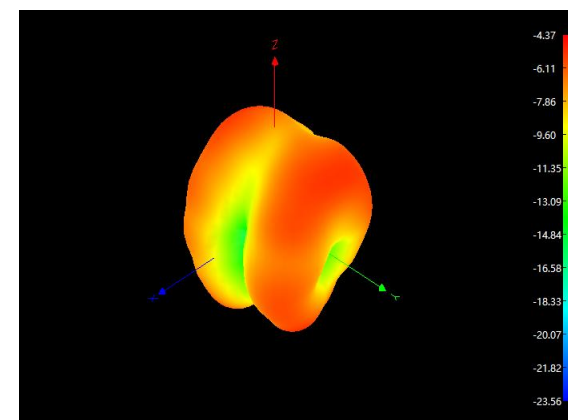
2400



2450

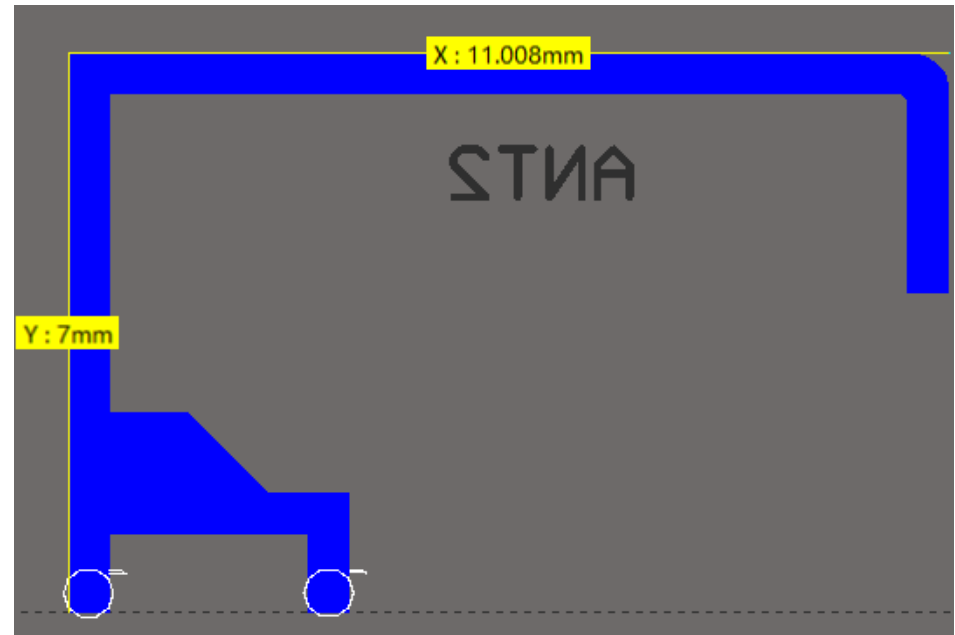


2500

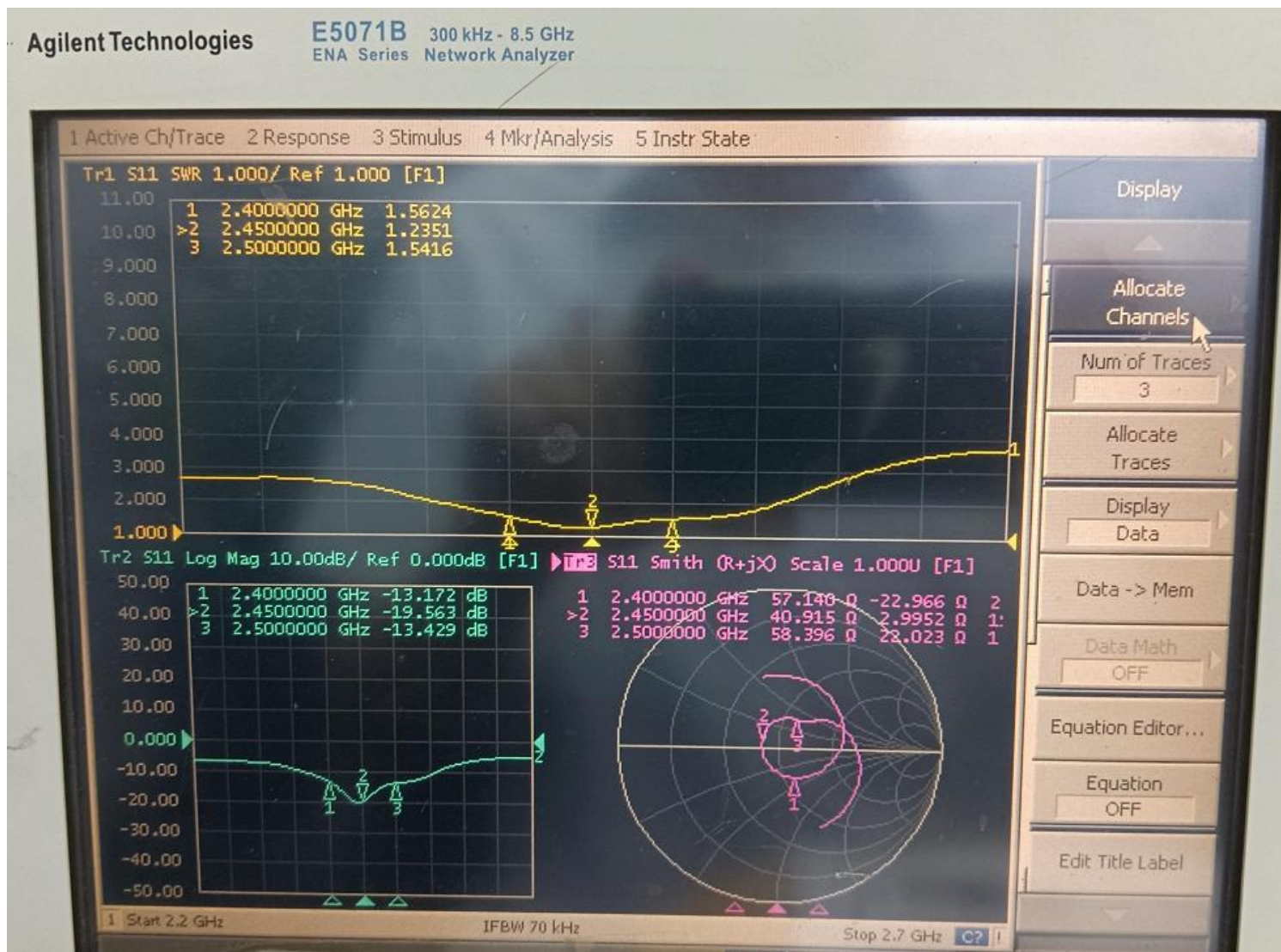




C7 is connected with a 0.5Pf capacitor and C8 is connected with a 1.5pf capacitor.

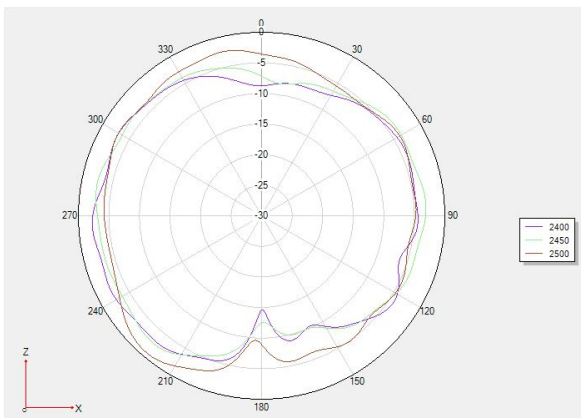


New antenna grid test diagram

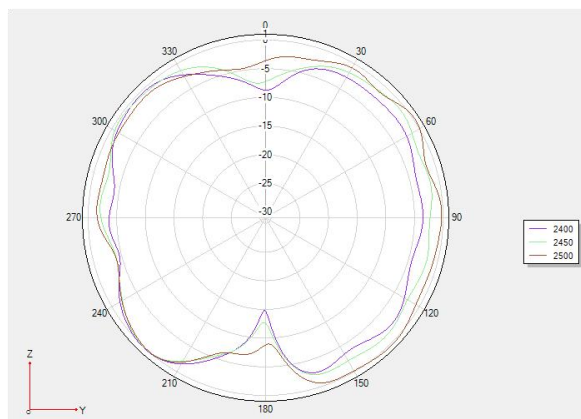


Frequency / MHz	Efficiency / %	Gain/ dBi
2400	37.8	0.51
2410	38.77	0.54
2420	40.51	0.61
2430	42.61	0.72
2440	44.64	0.75
2450	41.67	0.63
2460	43.8	0.77
2470	45.29	0.91
2480	43.92	0.83
2490	44.04	0.72
2500	43.15	0.7

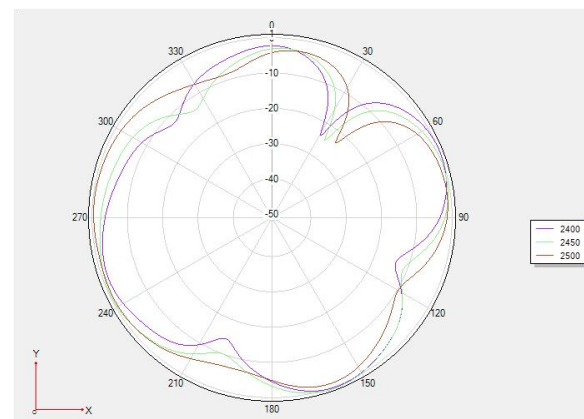
Phi 0 2Dfigure



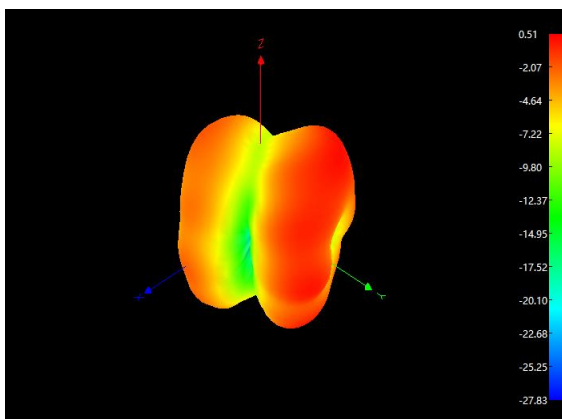
Phi 90 2Dfigure



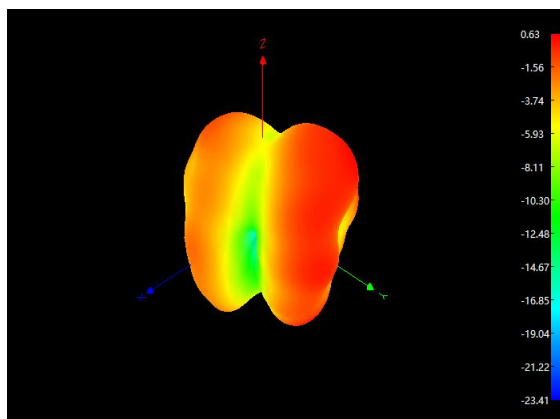
Theta 90 2Dfigure



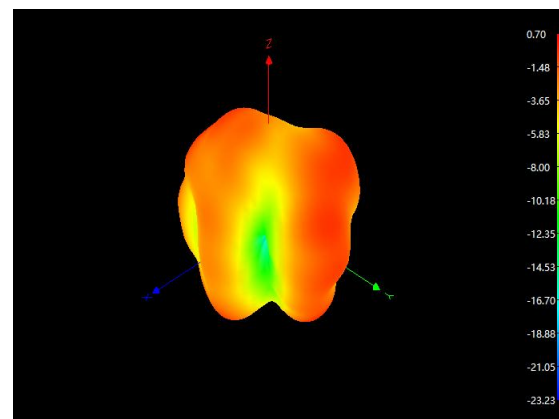
2400



2450



2500





Thank you!

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