



Shenzhen Yingjiachuang Electronic Technology Co., Ltd

Product antenna modulation report

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1. Project Overview

Customer name	Project name	Antenna implementation square
GY	BT1	On-board antenna
Operating frequency band (MHz).		
2.4G	2400–2500 MHz	

Physical drawings

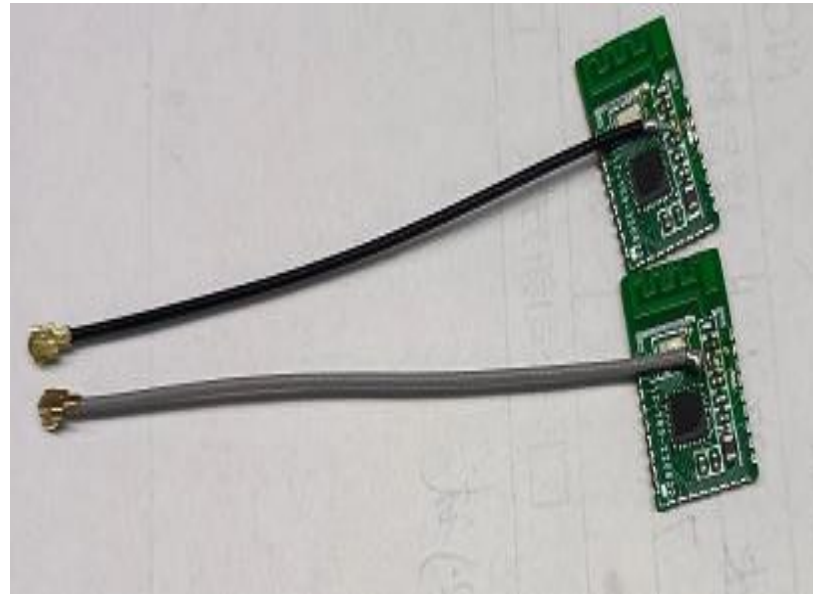
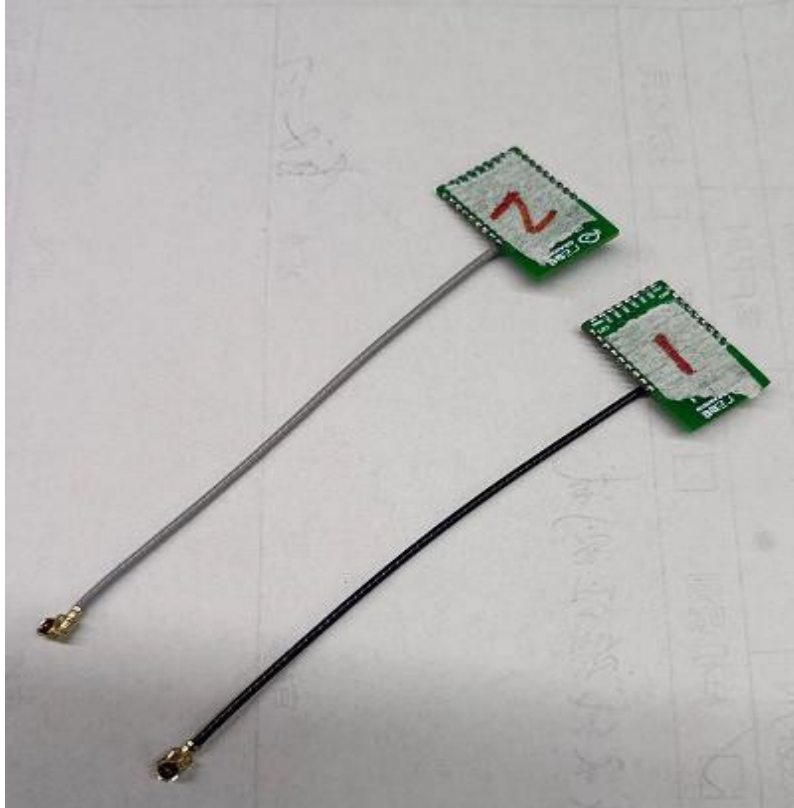


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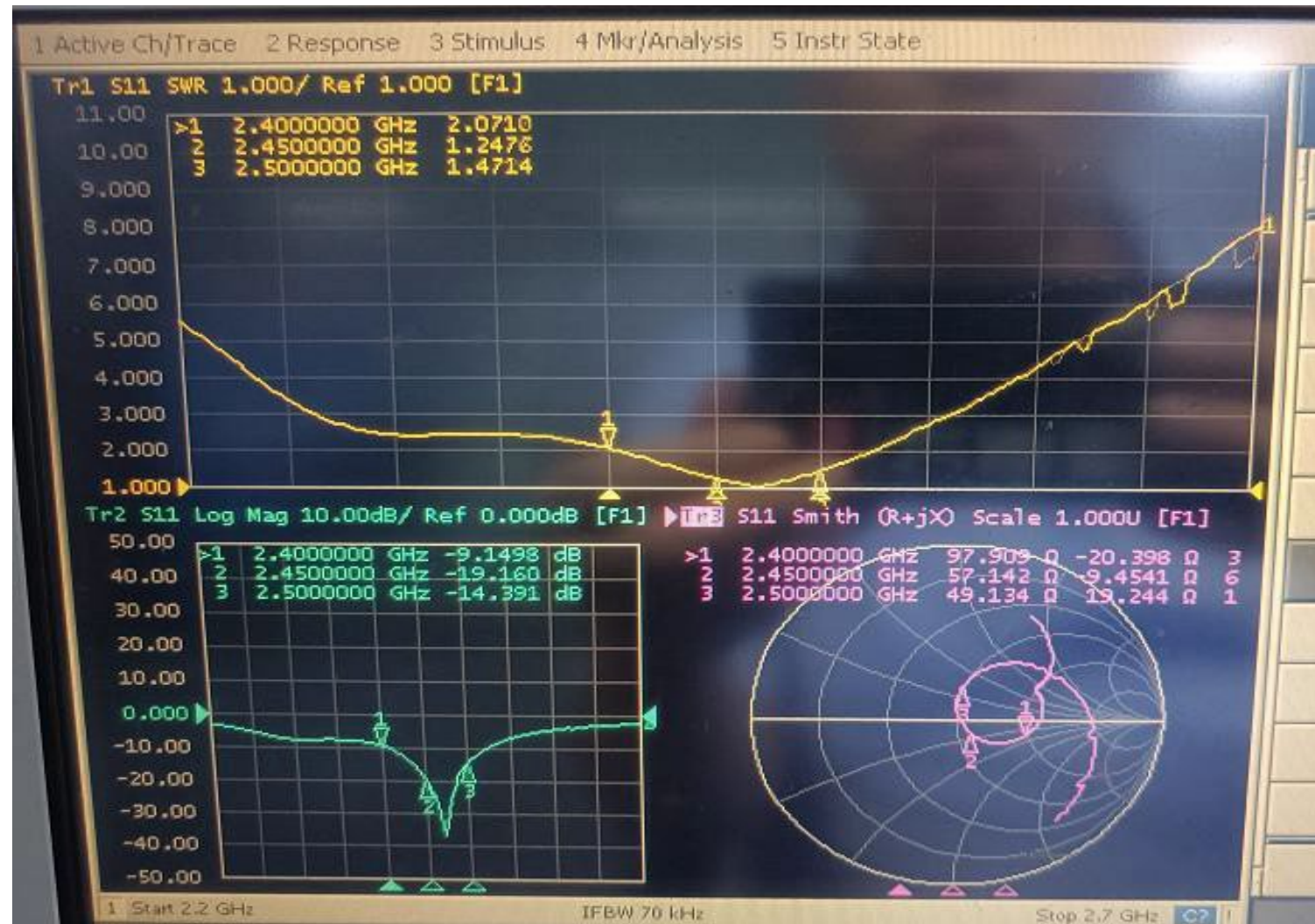
6.2 gray line passive 2D, 3D diagram

7.1 Black Line Network Division Test Standing Wave Diagram

8.1 black line passive data

9.1 black line passive 2D, 3D diagram

No. 2 gray line network division test standing wave plot

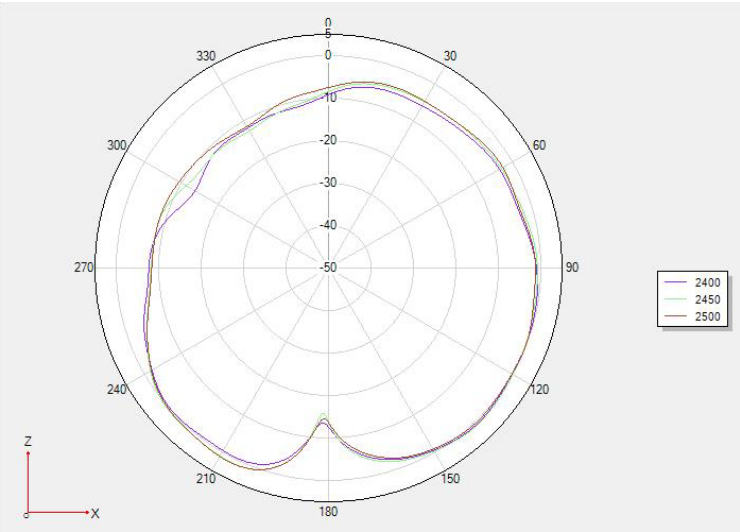


No. 2 gray line 2.4G passive test data

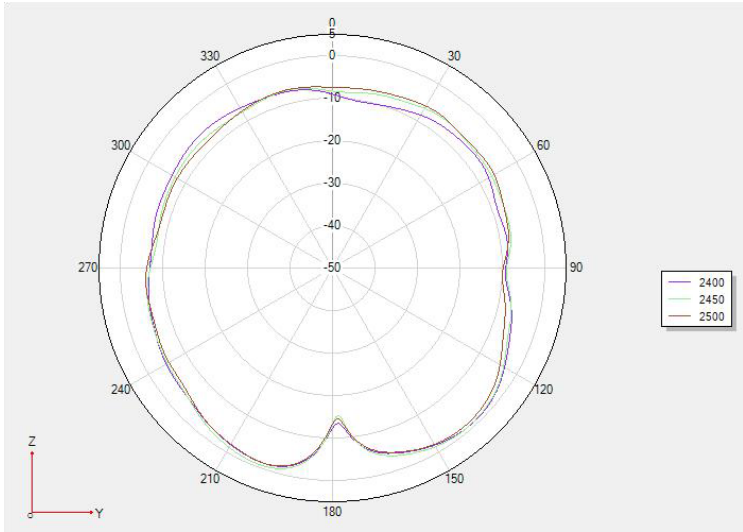
Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	37. 67	1. 68
2410MHz	39. 63	1. 62
2420MHz	40. 36	1. 95
2430MHz	40. 55	1. 58
2440MHz	41. 78	1. 84
2450MHz	43. 95	1. 84
2460MHz	43. 75	2. 14
2470MHz	43. 05	1. 88
2480MHz	43. 45	2. 47
2490MHz	42. 56	2. 06
2500MHz	41. 02	2. 02

2D3D diagram of the grey antenna no. 2 test

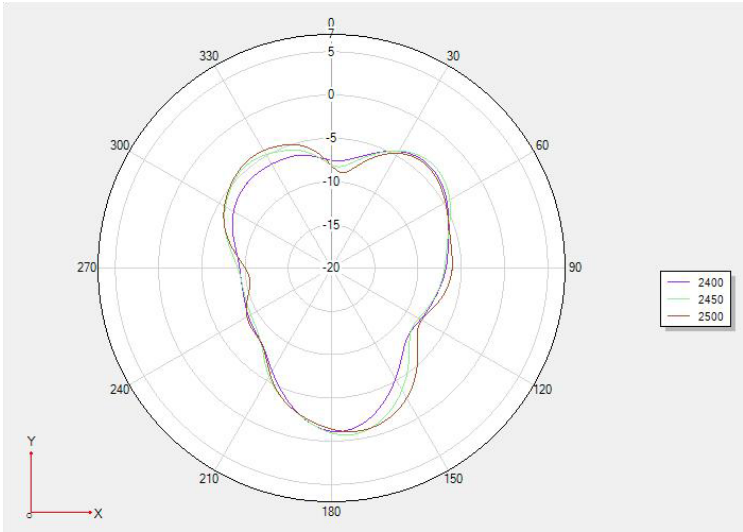
Phi 0 2D



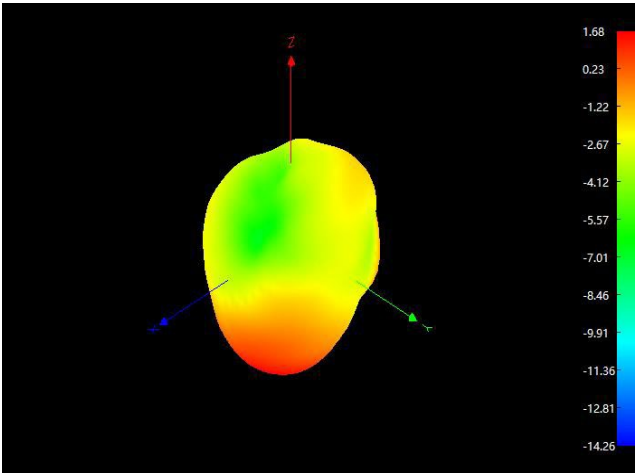
Phi 90 2D



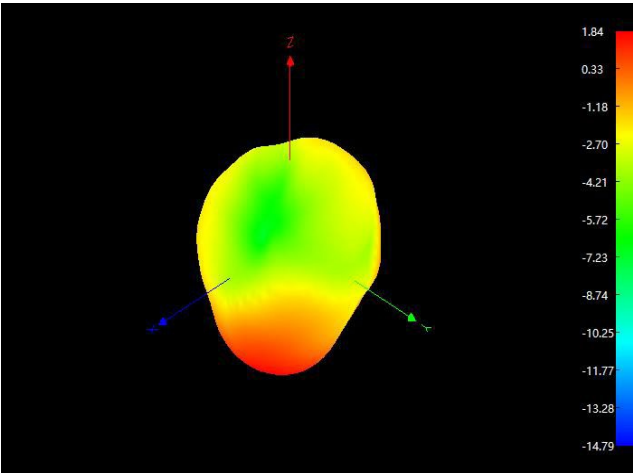
Theta 90 2D



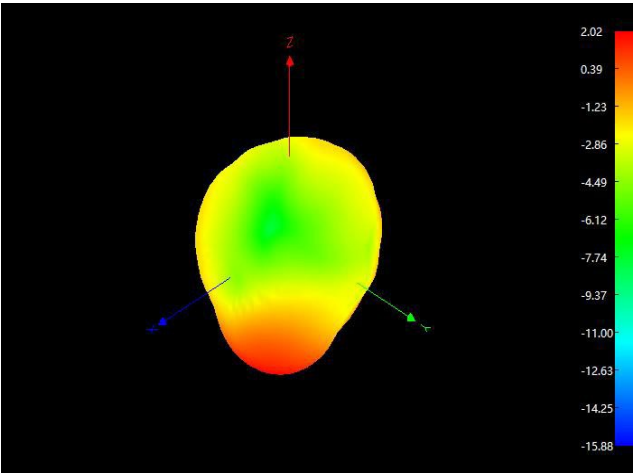
2400



2450



2500



Standing wave plot of the No. 1 black line network division test

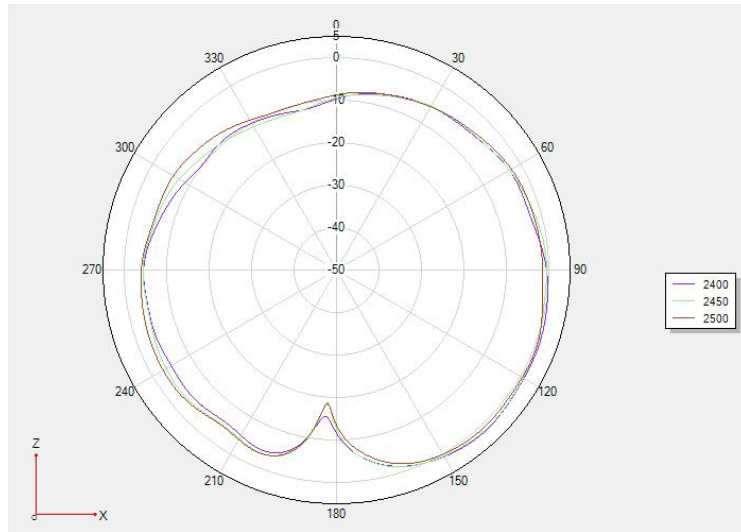


No. 1 black line 2.4G passive test data

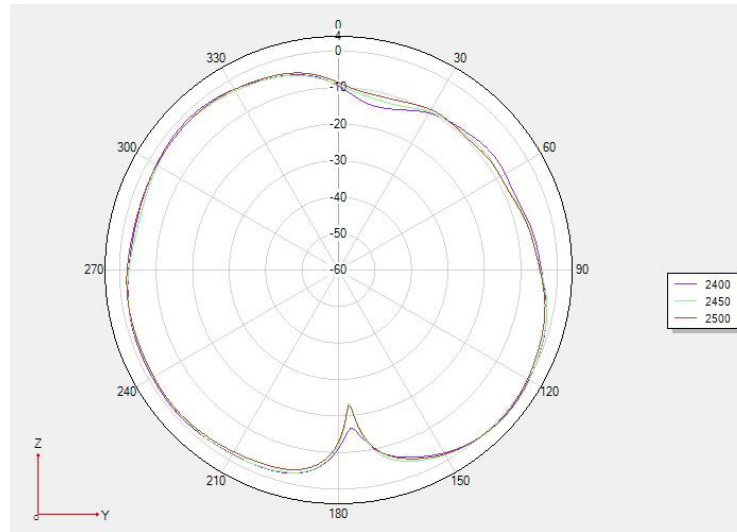
Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	47.97	2.16
2410MHz	48.64	2.25
2420MHz	47.97	1.94
2430MHz	47.21	2.34
2440MHz	46.88	2.18
2450MHz	47.21	2.29
2460MHz	45.39	2.2
2470MHz	44.16	1.98
2480MHz	43.65	2.42
2490MHz	41.98	2.13
2500MHz	39.81	2.01

2D3D diagram of the No. 1 black antenna test

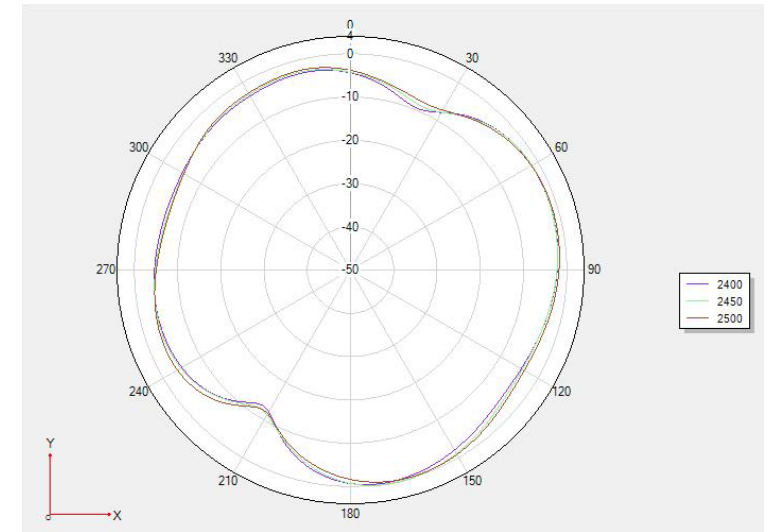
Phi 0 2D



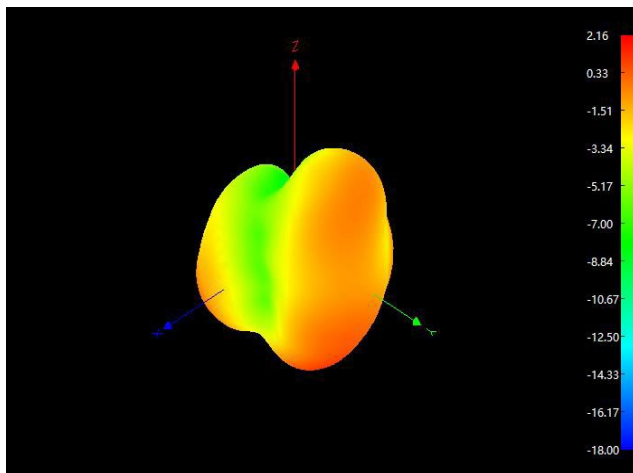
Phi 90 2D



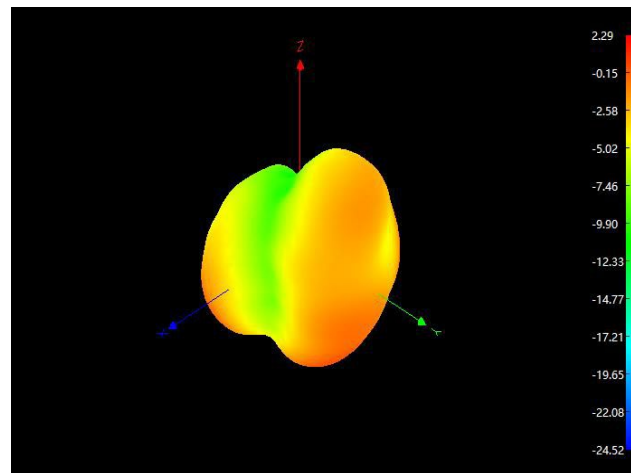
Theta 90 2D



2400



2450



2500

