
1. Purpose

Standardize the product specifications and test methods of mobile communication terminal antennas produced by Shenzhen Deweima Communication Equipment Co., Ltd. to avoid errors caused by different test conditions and methods.

2. Overview of product categories and product models

2.1 Category

The mobile communication terminal antenna is a monopole antenna

2.2 Product model overview

This report outlines the electrical results of the antennas designed for the 2.4G/5.8G antenna project.

The designed frequency band of this antenna is: 2.4-2.5GHz/5.15-5.85GHz.

3. Technical indicators and experimental equipment

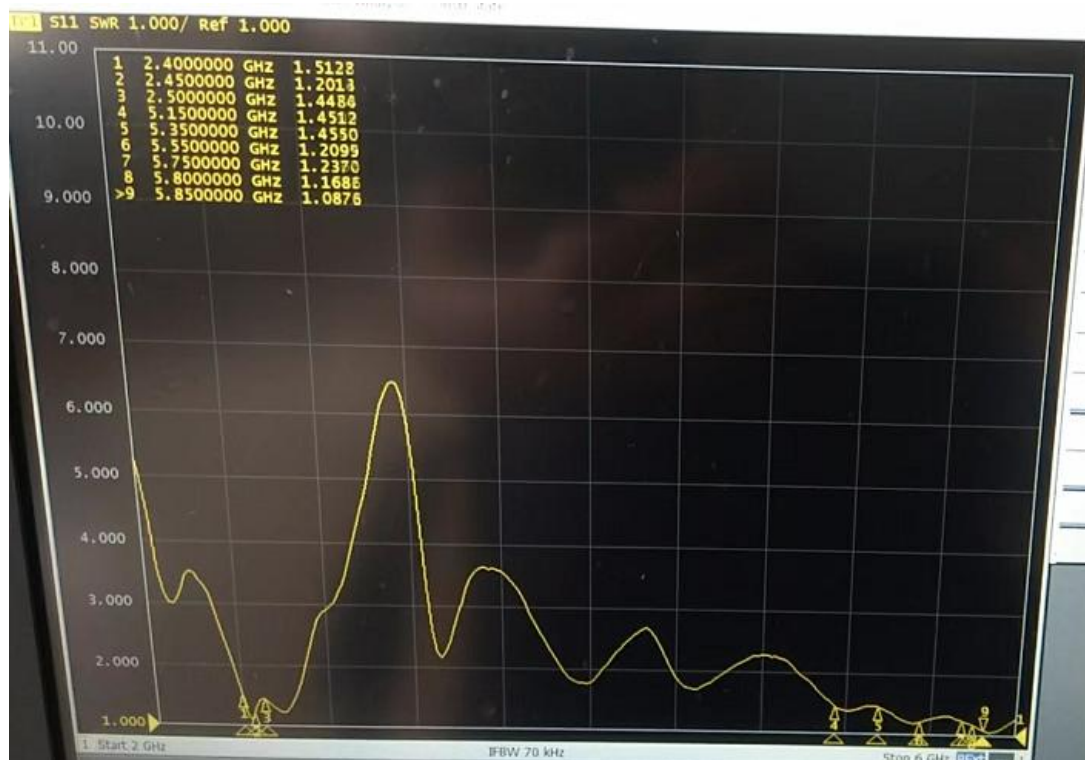
3.1 Technical indicators

Product electrical performance index	
Operating frequency range	2400~ 2500MHz 5150~5800MHz
VSWR	2400~ 2500MHz<2 5150~ 5800MHz<3

Radiation efficiency	2400~ 2500MHz > 60% 5150~5800MHz > 50%
impedance	50 ohm
Product Environment Description	
Operating temperature	- 30°C ~ + 85 °C
stored temperature	- 30°C ~ + 85 °C
Remarks: Please connect the product to the actual measurement effect of the installed machine	

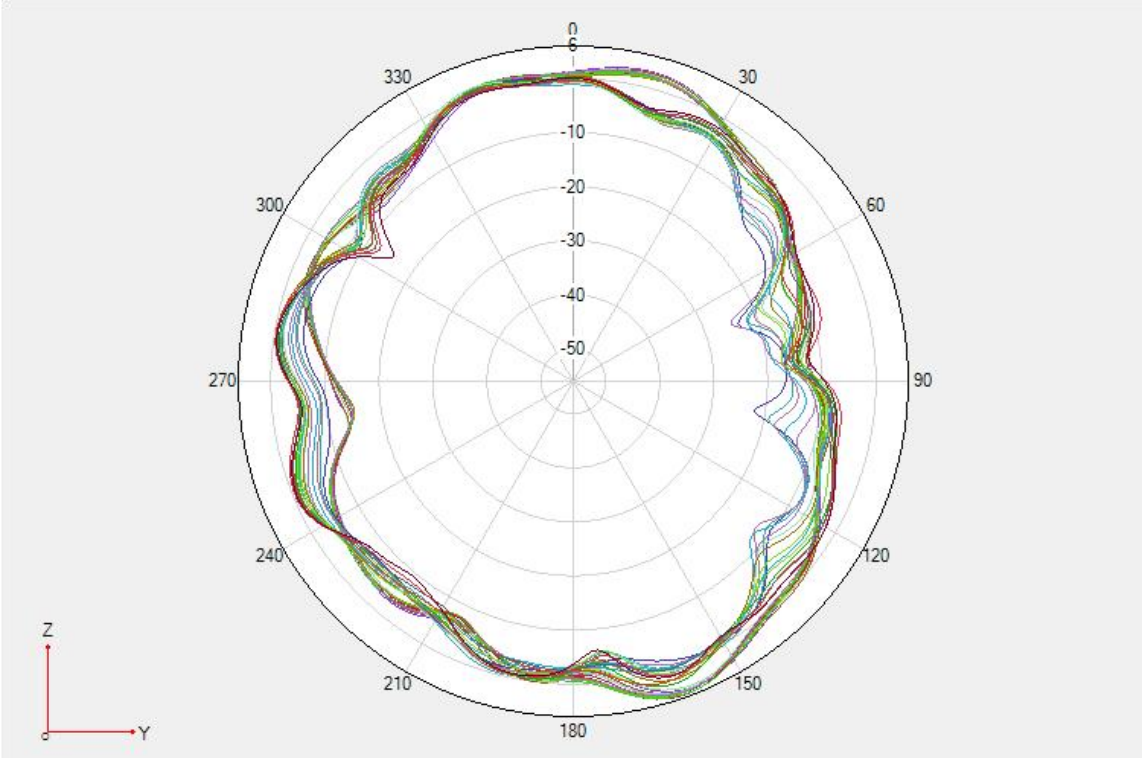
4. Antenna electrical performance parameters (SWR, gain, efficiency, pattern)

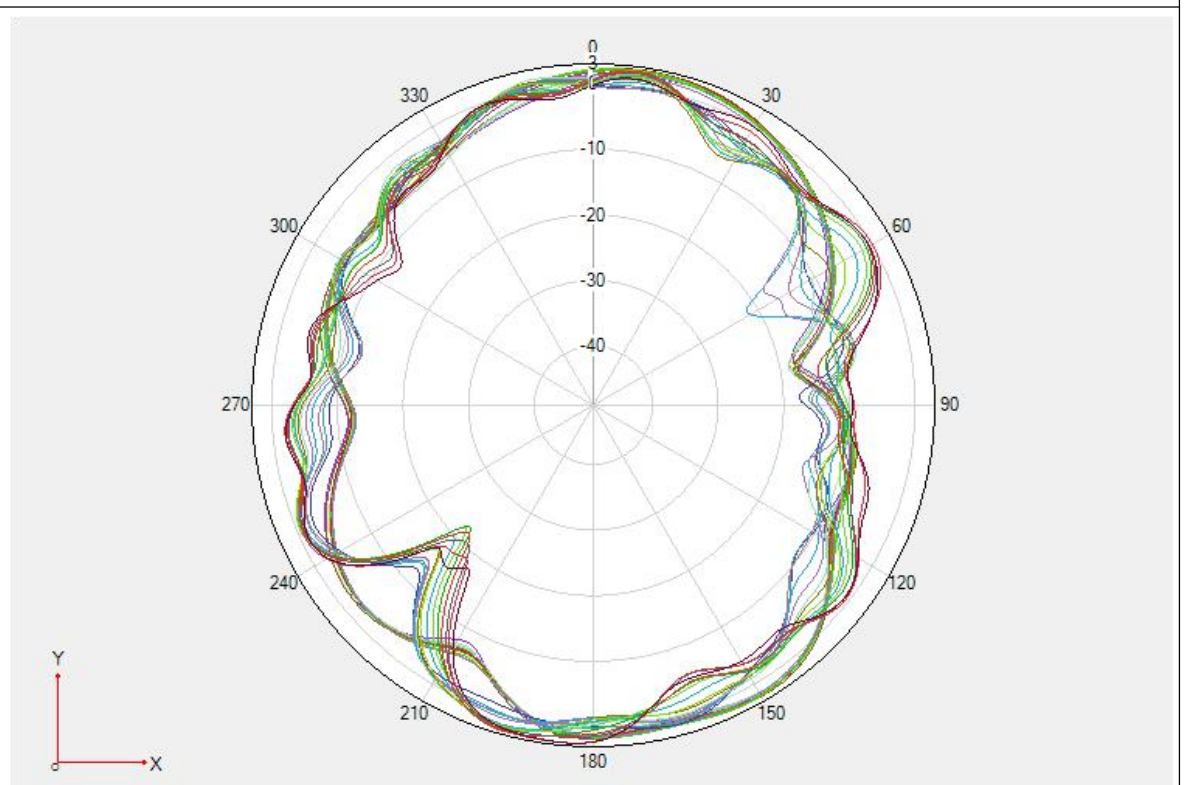
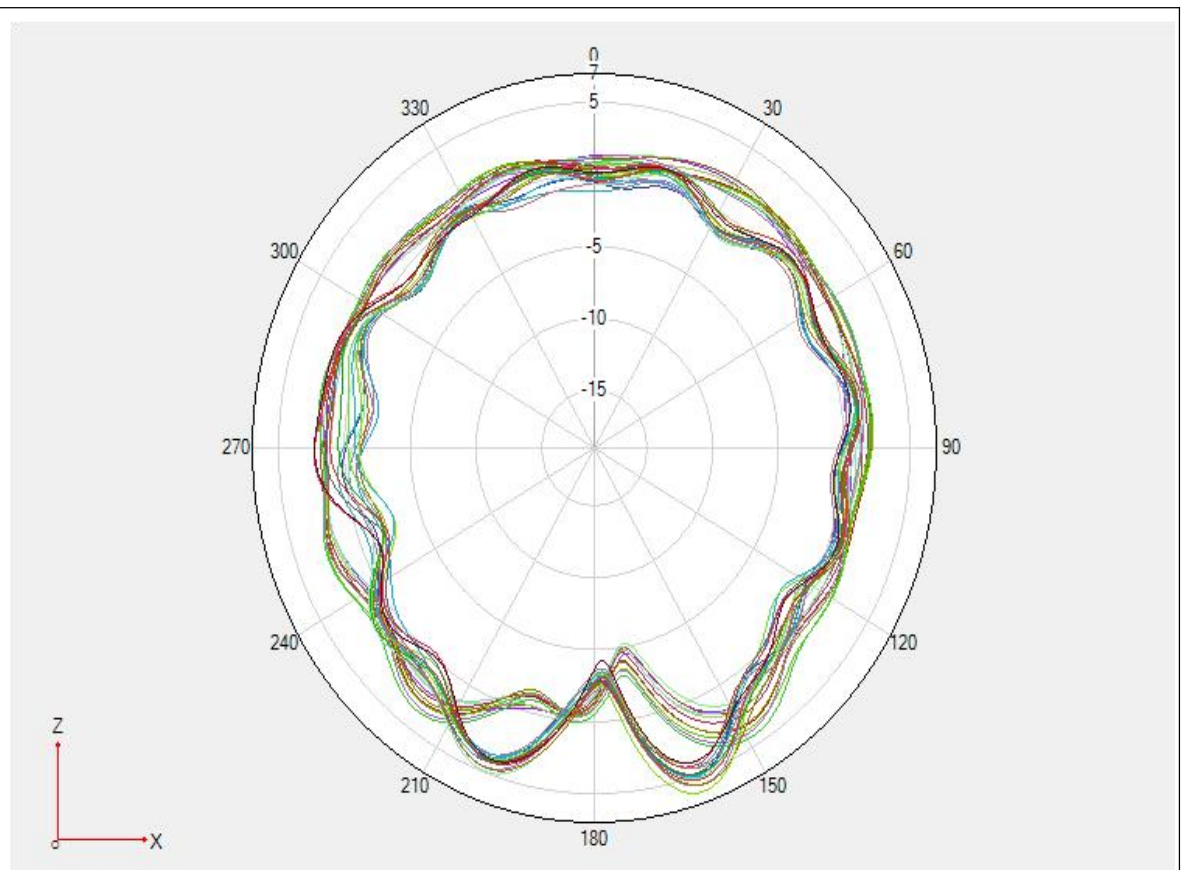
VSWR

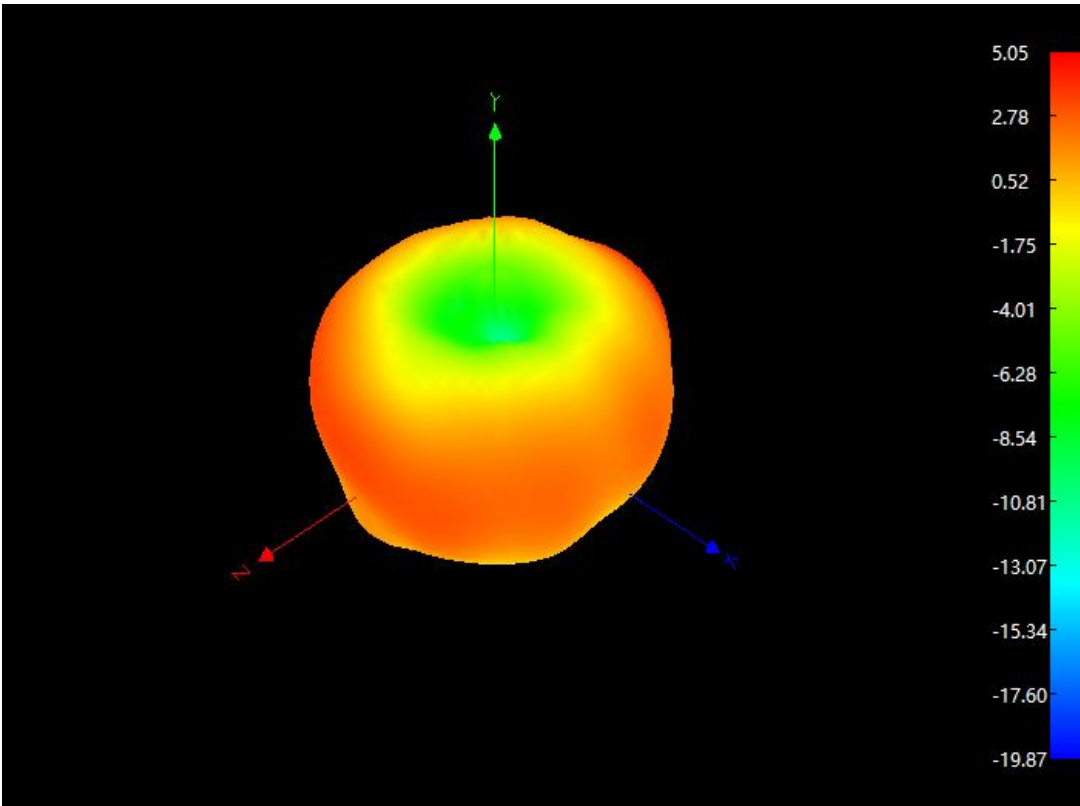


Efficiency and Gain

Frequency / MHz	Gain/ dBi	Frequency / MHz	Efficiency / dB	Efficiency / %
2400	5.05	2400	-1.69	67.76
2410	4.61	2410	-1.82	65.77
2420	5.14	2420	-1.61	69.02
2430	5.35	2430	-1.58	69.5
2440	4.98	2440	-1.66	68.23
2450	5.39	2450	-1.48	71.12
2460	5.75	2460	-1.35	73.28
2470	5.24	2470	-1.46	71.45
2480	5.22	2480	-1.33	73.62
2490	5.59	2490	-1.16	76.56
2500	5.04	2500	-1.31	73.96
5150	5.42	5150	-2.37	57.94
5200	4.94	5200	-2.52	55.98
5250	4.66	5250	-2.65	54.33
5300	5.27	5300	-2.6	54.95
5350	5.31	5350	-2.31	58.75
5400	5.33	5400	-2.26	59.43
5450	5.45	5450	-2.26	59.43
5500	5.38	5500	-2.35	58.21
5550	5.37	5550	-2.47	56.62
5600	4.66	5600	-2.6	54.95
5650	5.22	5650	-2.14	61.09
5700	5.53	5700	-2.14	61.09
5750	5.22	5750	-2.42	57.28
5800	4.98	5800	-2.32	58.61
5850	4.75	5850	-2.4	57.54

E1 side pattern	
E2 side pattern	



E3 side pattern	
3D Pattern	 A 3D visualization of a pattern on a sphere, likely representing a globe or a celestial body. The sphere is colored with a gradient from red at the top to blue at the bottom, with yellow and green in the middle. The top pole is red, indicating a high value, while the bottom pole is blue, indicating a low value. The equatorial region is yellow and green. The sphere is centered in a 3D coordinate system with three axes: a vertical green axis (Y), a horizontal red axis (X), and a diagonal blue axis (Z). To the right of the sphere is a vertical color scale bar with numerical values ranging from 5.05 at the top to -19.87 at the bottom. The values are: 5.05, 2.78, 0.52, -1.75, -4.01, -6.28, -8.54, -10.81, -13.07, -15.34, -17.60, and -19.87. The colors transition from red at the top to blue at the bottom, with yellow and green in the middle.

5. Product photo



20CM*0.5CM