

Product Specification Acknowledgement Letter

Dewima Antenna Laboratory

Shenzhen Research and Development Center

Mobile communication terminal antenna

customer name Lewe i

Product name:

material code: ANT2004512001

Contractor			Date: 04/18/2024
RF	structure	audit	quality
高春彦	陈裕松	余奇学	罗庆周

customer side		Date: Year month day
Conclusion	confirmor	auditor

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0755-27885839-800

1. purpose

Standardize the specifications and testing methods of the mobile communication terminal antennas produced by Shenzhen Deiwema Communication Equipment Co., Ltd., to prevent errors caused by differences in testing conditions and methods.

2. Overview of Product Categories and Product Models

2.1 category

This mobile communication terminal monopole antenna is

2.2 Overview of Product Models
This report mainly outlines the electrical results of the antenna designed for the 5.8G antenna project.

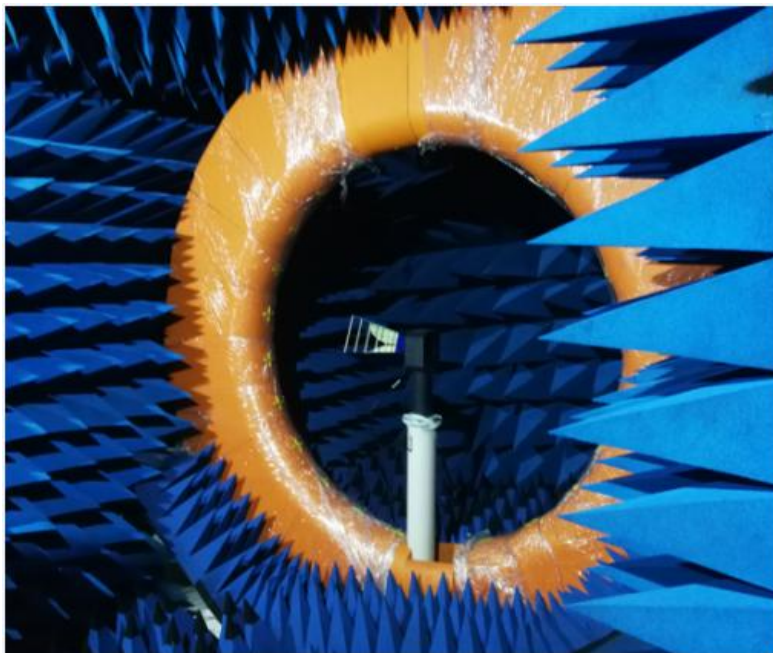
This antenna is designed for the frequency range of: **2400-2500MHz**

3. Technical indicators and instruments/equipment

3.1 technical index

Product electrical performance indicators	
operating frequency range	2400~2500MHz
standing-wave ratio (SWR)	2400~2500MHz < 2.0
antenna gain	2400~2500MHz :3.0dBi
radiant efficiency	2400~2500MHz>50%
impedance	50 ohm
Product Material Description	
Copper tube + coaxial cable + first-generation terminal	
Product Environment Description	
operating temperature	- 30 °C ~ + 85 °C
storage temperature	- 30 °C ~ + 85 °C

3.2 apparatus



24-probe microwave chamber



R&S CMW500



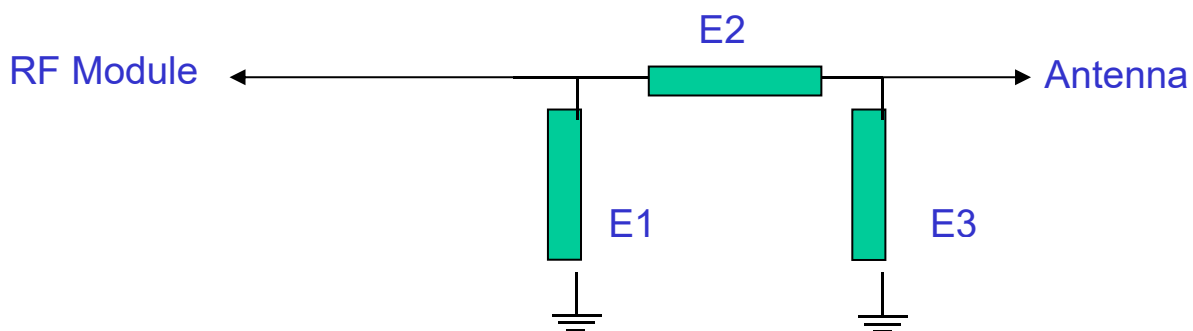
Agilent E4405B 频谱仪



Agilent Technologies E5071B

4. Matching Circuit Description:

Our company did not make any modifications to the matching circuit of the antenna.



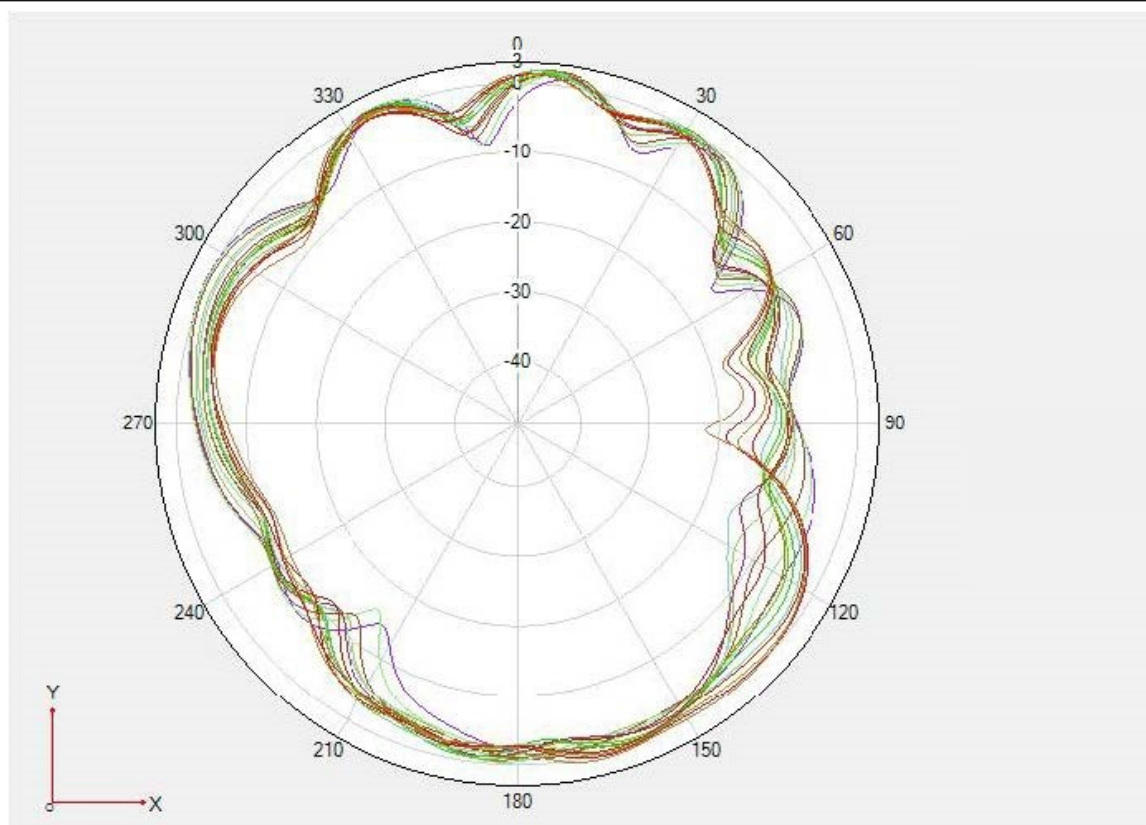
Element	Value	Vender
E1(0402)		
E2(0402)		
E3(0402)		

5. Electrical performance parameters of the antenna (voltage standing ratio, gain, efficiency, radiation pattern)

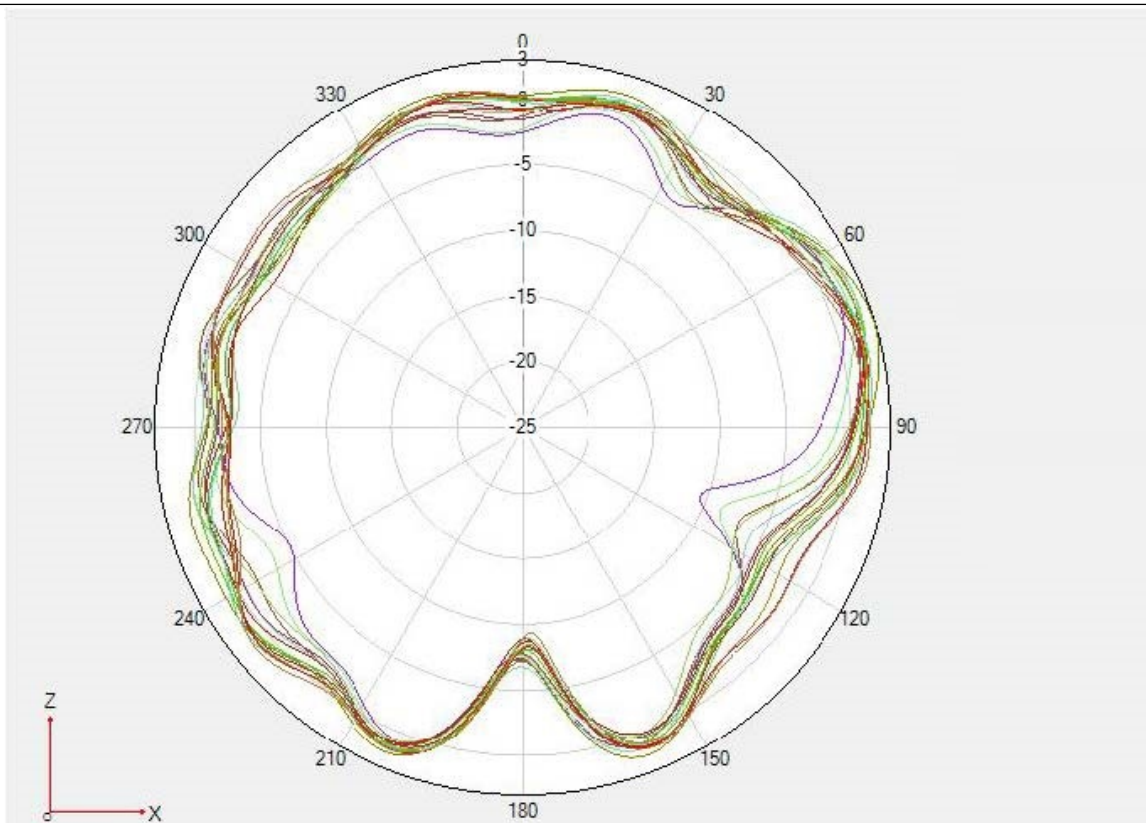
效率与增益
(Efficiency and Gain)

Passive Test 2.4GHz											
Fre. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Effi (%)	34.24	33.40	33.13	34.74	34.51	32.42	31.98	30.91	29.42	25.55	26.04
Gain(dBi)	-0.16	-0.24	-0.32	-0.35	-0.26	-0.49	-0.60	-0.71	-1.19	-1.76	-1.57

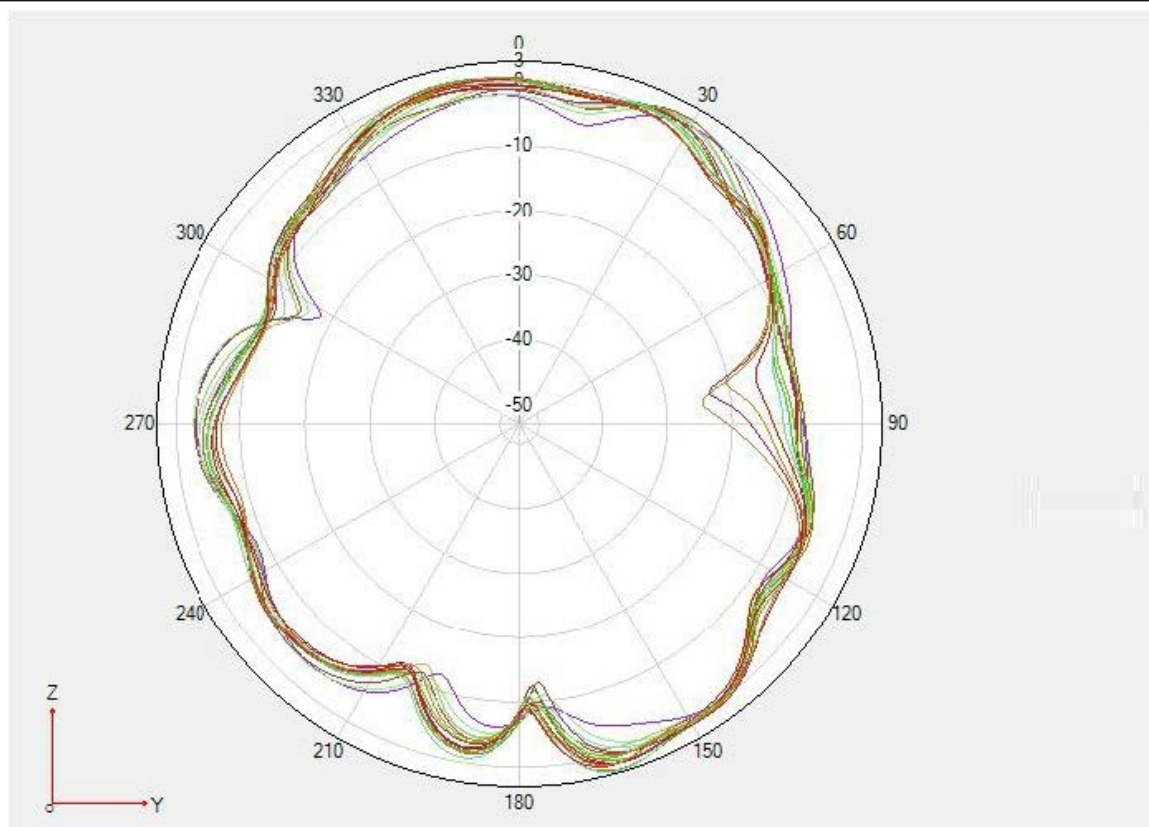
E1 plane
direction
Picture



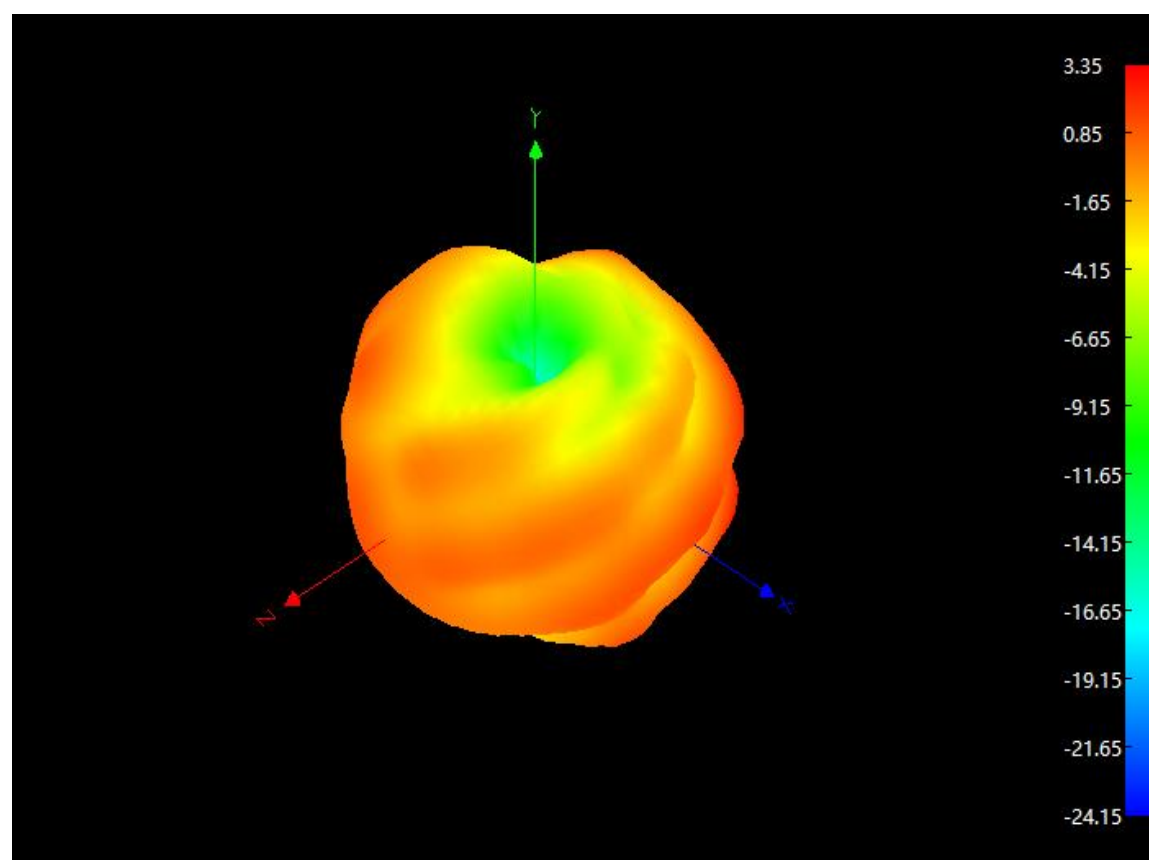
E2 plane
direction
Picture



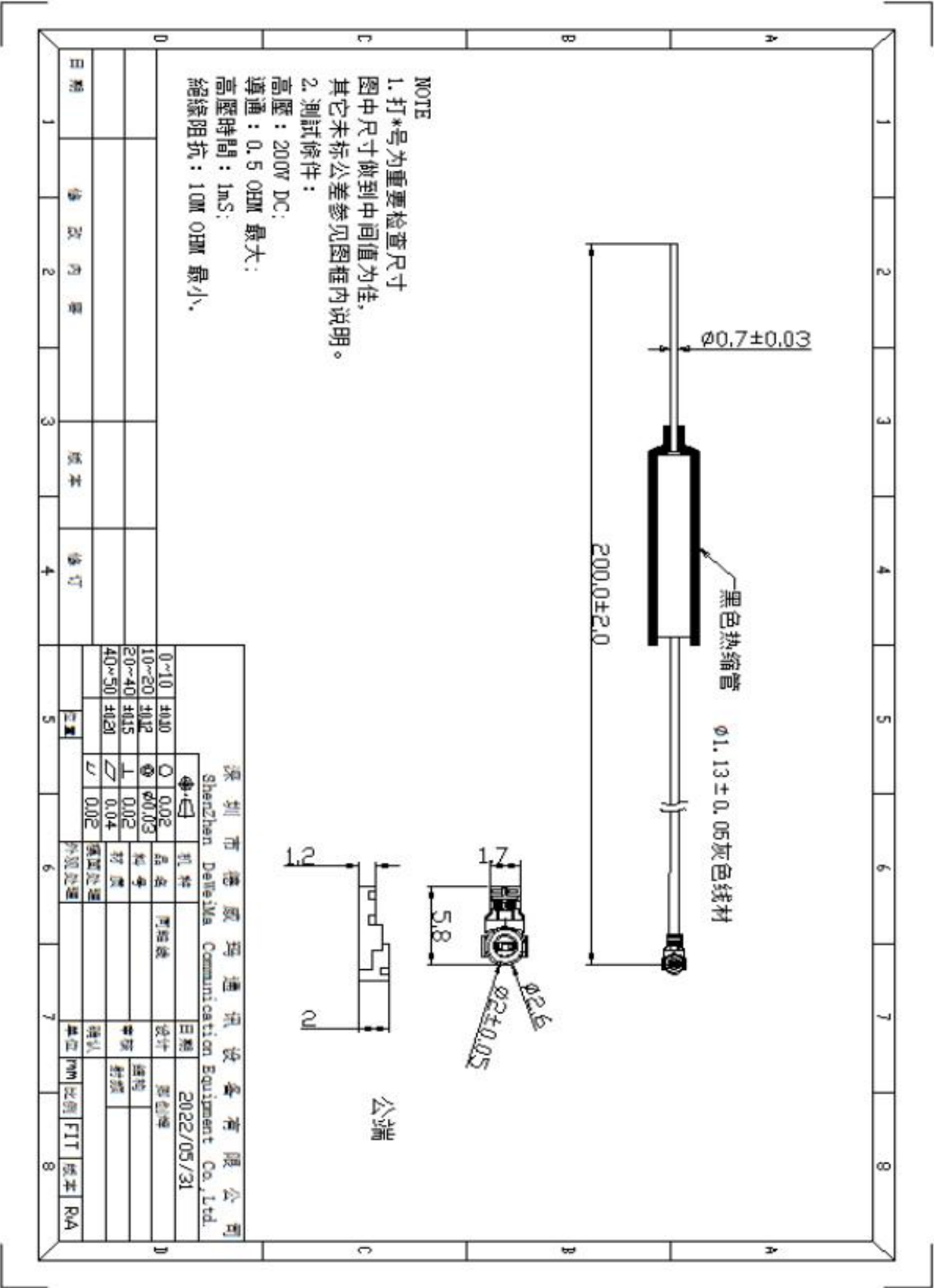
E3 plane
direction
Picture



3D 方向图
(3D
Pattern)



5. product structure diagram:



6.Product physical picture:



7.modes of packing:

Bagged delivery