
Confirmation of products

Customer	REOLINK				
Project Name	DB2	Version	A. 1	Date	2026/4/16
Project NO.	03. 25. 01. 003	Customer NO.	53. 05. 002. 0245		
Frequency Range	868~915MHz	Notes	SUB 1G		
Designed By					
Approved By					
Clients' Approval					

Designer: SHENZHEN 3GTX ANTENNA TECHNOLOGY CO.,LTD.

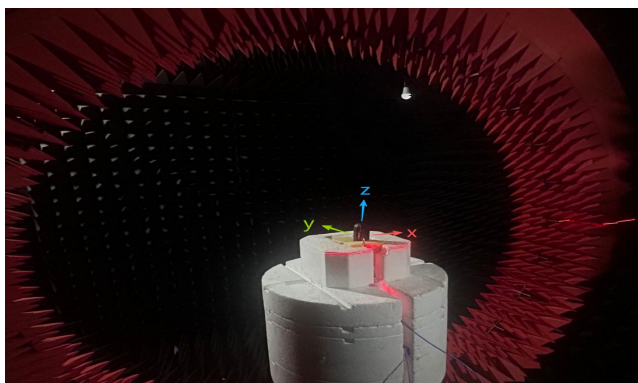
Building 1, 3 floors, Huarong Road, Dalang Street, Longhua District, Shenzhen

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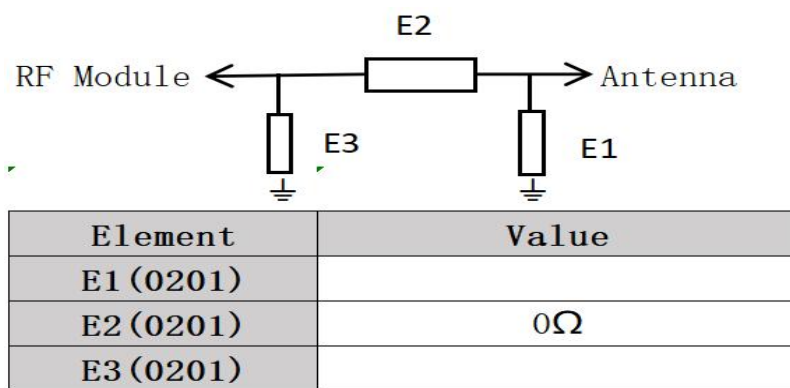
1、 Specification

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----DB2 Picture 1 shows the antenna designed by LR.



2 、 Matching circuit diagram

SUB 1G antenna:



3、 VSWR Testing

3.1 Testing connection

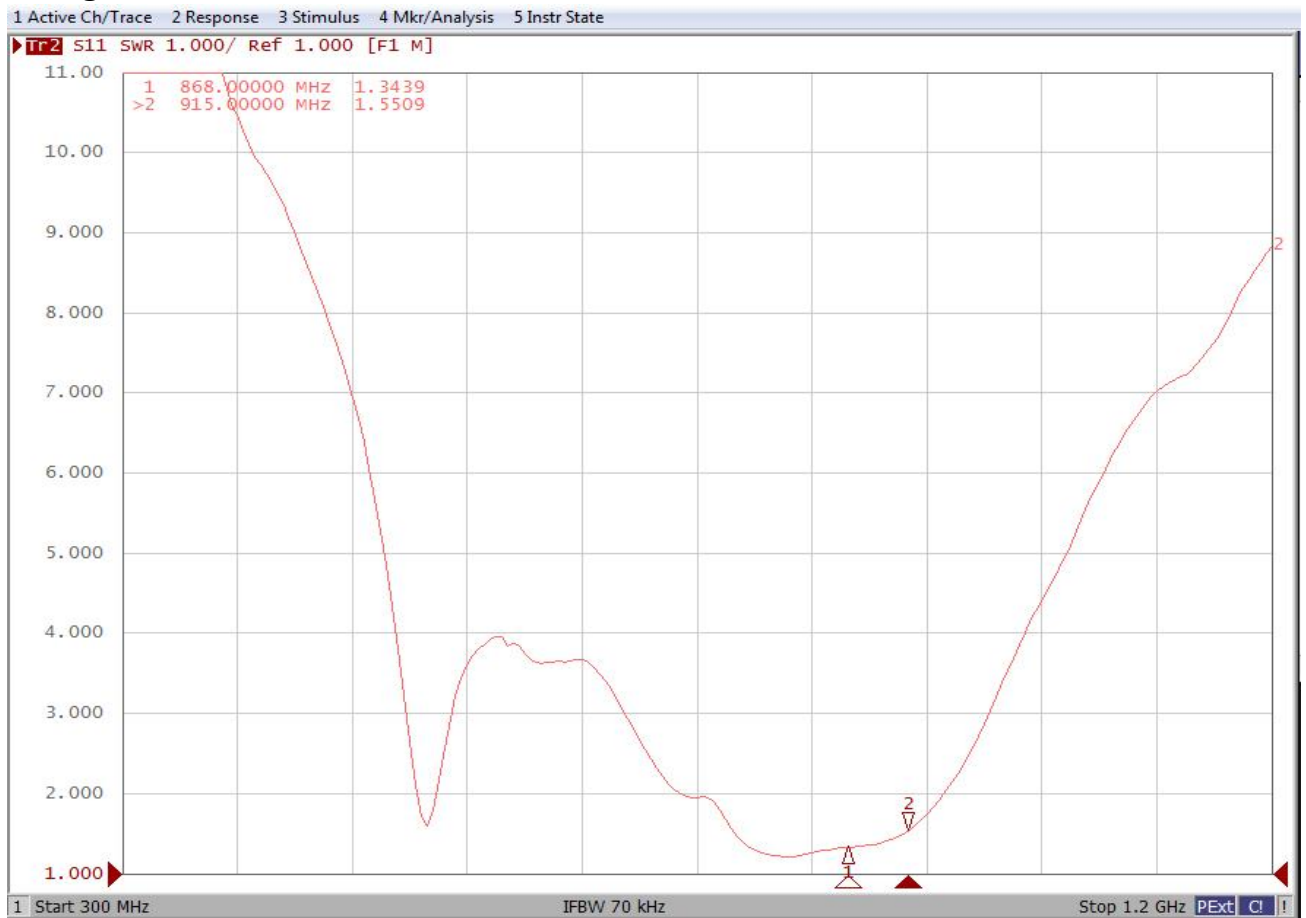
The **Return Loss** testing devices are connected in sequence: Agilent5071C Network Analyzer →Testing Cable → Customer-providing Devices.

3.2 VSWR

The following table expresses the vswr value of antenna's two edges of its frequency range. With regard to the relevant diagram of VSWR

DB2 SUB-1G VSWR		
Frequency (MHz)	868	915
VSWR	1.34	1.55

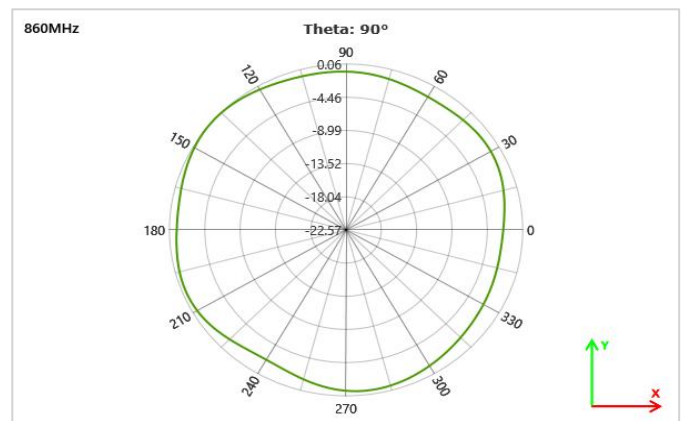
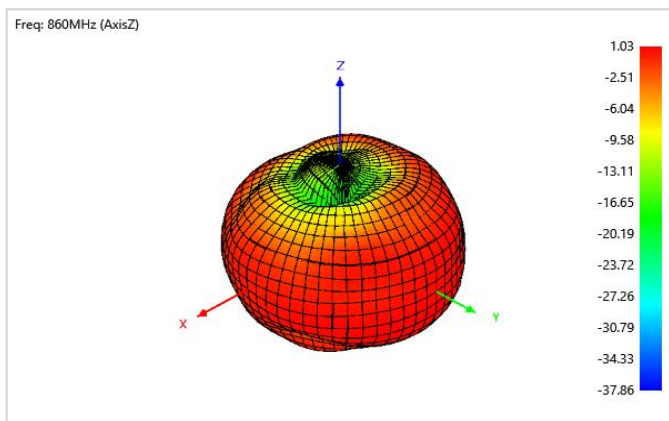
3.3 Testing data



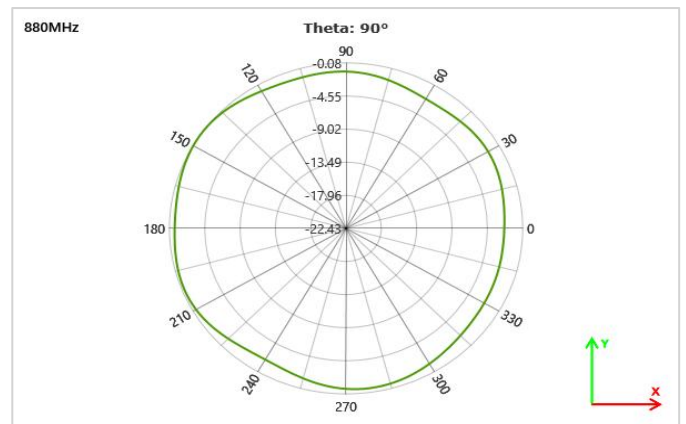
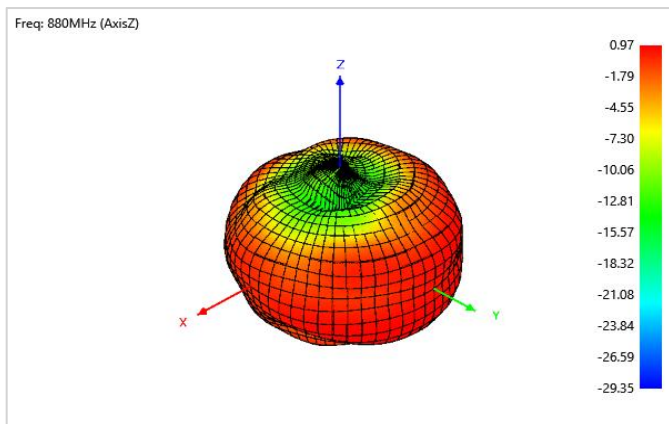
868~915MHz antenna VSWR

3.4Antenna 3D pattern

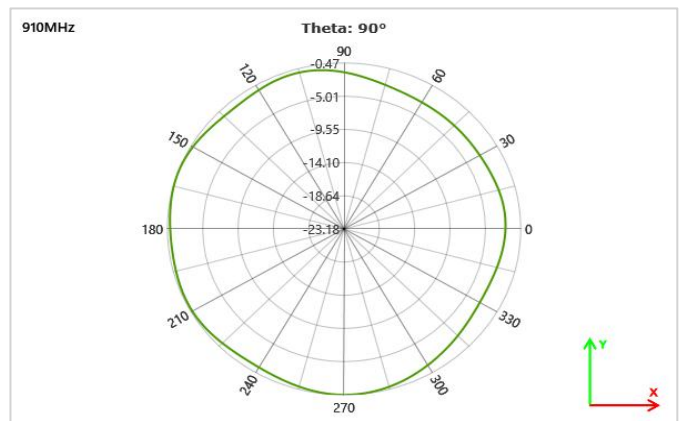
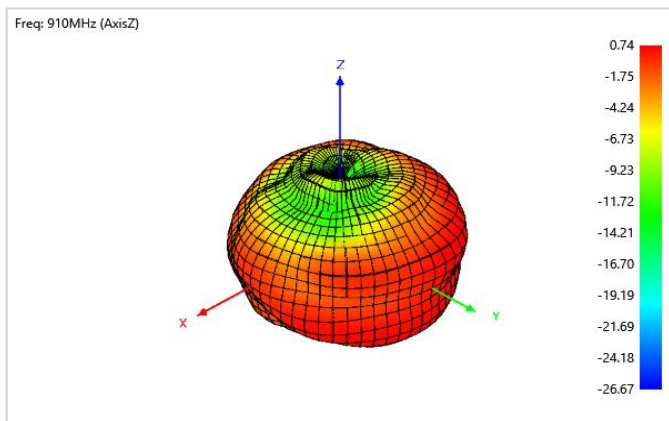
860MHz



880MHz



910MHz



4、 Power、 Sensitivity Testing

4.1 Testing field

LR Microwave Anechoic Chamber : testing frequency ranges from 400MHz to 6GHz and the 40cm diameter spherical quiet zone, the chamber provides less than -90dB reflectivity from 400MHz—6GHz.

4.2 Testing results

The following table indicates the testing results related to Power and Sensitivity in Microwave Anechoic Chamber, concerning the relative diagram.

4.3 Active testing.

DB2 Sub-1G Antenna efficiency

Freq(MHz)	Gain(dBi)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(%)
830	0.10	47.28	885	0.78	52.68
835	0.20	48.86	890	0.71	53.41
840	0.38	49.55	895	0.61	52.58
845	0.61	51.05	900	0.52	52.32
850	0.78	52.21	905	0.55	51.15
855	1.04	54.63	910	0.74	51.71
860	1.03	54.57	915	0.91	51.48
865	1.03	54.79	920	0.99	51.19

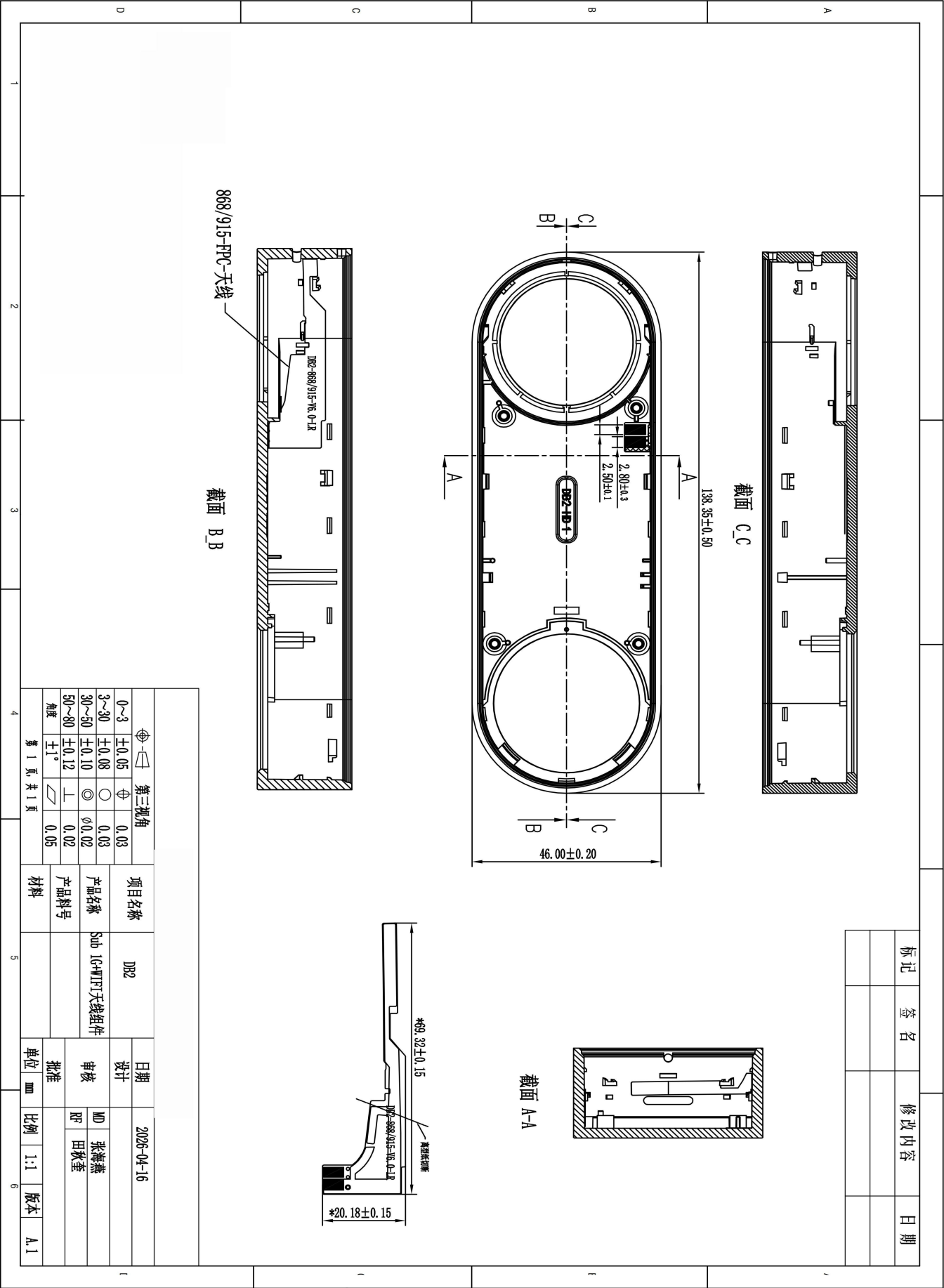
870	1.06	55.19	925	1.15	51.65
875	0.82	52.53	930	1.19	50.17
880	0.97	54.60			

5、Environmental treatment

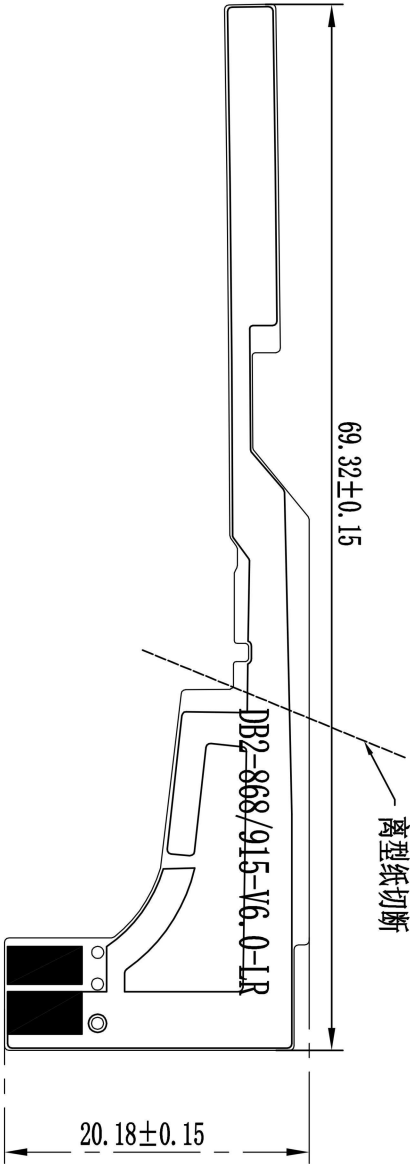
Environmental Control and Mounting Illustration for Final Assembly



6、Mechanical Dimension Drawing



丝印字码为亮黑色



标记	签名	修改内容	日期

第三视角				项目名称		日期	
0~3	±0.05	0.03	0.03	DB2	2026-03-30	设计	
3~30	±0.08	0.03	0.03	产品名称	8668/915-PPC	审核	张海燕
30~50	±0.10	0.02	0.02	产品料号		MD	田秋奎
50~80	±0.12	0.02	0.02			RF	
角度	±1°	0.05	0.05	材料	P1+电解铜	批准	
第 1 页 共 1 页				单位	mm	比例	1:1
				5	6	版本	A.1