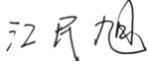



Inspection Report

Test report number: JYC23033101

Product Name	Combination Antenna
Model	JCB305L/10520046
Specification	
Commissioning Unit	Domestic Trade Department
Test Category	Analytical tests

Zhejiang JC Antenna Co.,Ltd Laboratory.

Test Report Basic Information

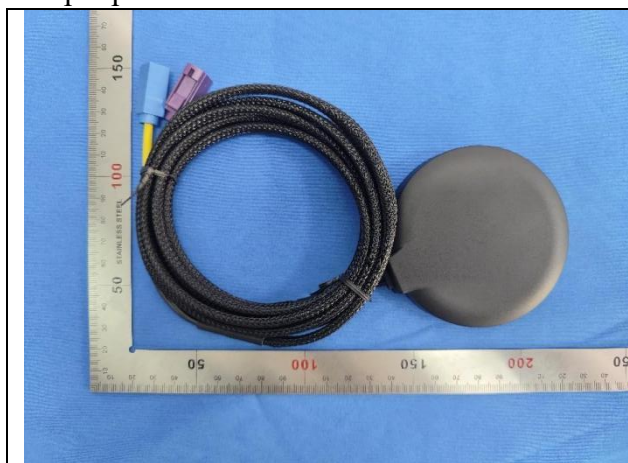
Product Name	Combination Antenna	Model	JCB305L/10520046
Test Category	Analytical tests	Number of samples	1pc
Inspected units	Zhejiang JC Antenna Co.,Ltd Laboratory.		
Entrusted unit name	Domestic Trade Department of Zhejiang JC Antenna Co.,Ltd		
Address of the commissioning unit	# 398 Zhenye Road, Jiaxing Economic Development Zone, Nanhu District, Jiaxing, Zhejiang, China.		
Production units	Zhejiang JC Antenna Co.,Ltd		
Receiving method	Commissioned party to send samples	Date of commissioning	2023-03-31
Date of receipt of samples	2023-03-31	Completion Date	2023-04-01
Testing basis	Customer requirements		
Testing items	Performance Test		
Test conclusion	\		
Main Inspection: Jiang Minxu Position: Test Engineer Signature:  Date: 2023.04.10		April 11, 2023	
Review: Fu Tao Position: Test Engineer Signature:   Date: 2023.04.10			
Approval: Wang Binbin Position: Authorized Signatory Signature: Date:			
Remarks	This column is blank		

Sample description and instructions

1 Basic Information

Sample Name	Model Specification	Number of samples	Sample number
Combination Antenna	JCB305L/10520046	1pc	23033101-001

2 Sample photos



Antenna Sample

Blank here

3 Notes:

3.1 Samples are provided by the applicant, the laboratory is not responsible for the integrity of the sample, the authenticity of the sample and its identification information.

3.2 For ease of entry and reading, this report will abbreviate the sample number, e.g., the original number "23033101-001 is abbreviated to 001#".

3.3 Judgment requirements are derived from the commission order judgment method.

Summary of test results

Serial number	Testing basis	Test Items	Sample number	Test results	Start/end time	Judging
1	Customer requirements	Performance Test	001#	See page 4 - page 11	2023-04-01~2023-04-01	\

Test No. 1: Performance Test

1.1 Overview of testing

Testing basis	Customer requirements
Test date	2023-04-01
Sample number	001#

1.2 Testing equipment

Serial number	Equipment name	Equipment number	Performance	Measurement validity
1	Microwave darkroom	MA-19-1745	\	School-free

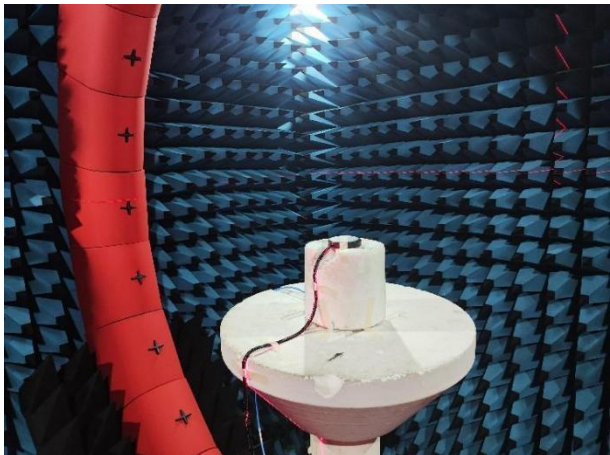
1.3 Testing environment

Temperature	Humidity	Other
19.7 °C	45% RH	\

1.4 Testing methods and layout and requirements

(1) Test method: Install the sample in the microwave dark room, fix it in the center of the turntable, set the test frequency point according to the frequency range of the sample, start the test, and export the gain and other data on each frequency point from within the test software after completion.

(2) The test arrangement and equipment setup parameters, as shown in the following figure:

 <p>Microwave darkroom layout</p>	<p>Blank here</p>
--	-------------------

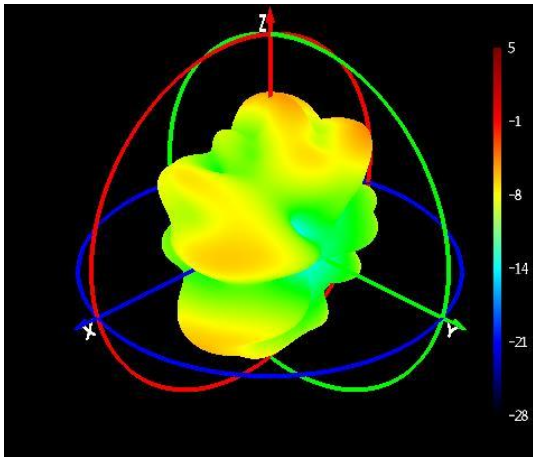
(3) Testing requirements/judgment basis: JCB305L: LTE antenna: frequency 698~960MHz/1710~2690MHz; GNSS antenna: 1559~1610MHz.

1.5 Test results

Sample number	Validation Project	Test results	Determination
001# LTE antenna	Gain	See 001# LTE antenna sample gain chart	/
001# LTE antenna	3D orientation chart	See 001# LTE antenna sample 3D orientation diagram	/
001#GNSS antenna	Gain	See 001# LTE antenna sample gain chart	/
001#GNSS antenna	3D orientation chart	See 001# LTE antenna sample 3D orientation diagram	/

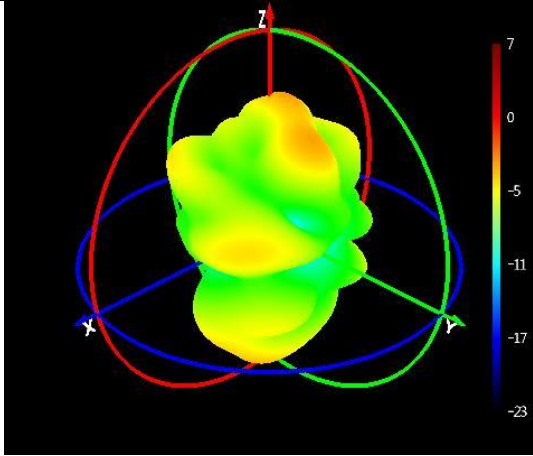
1.6 Photos of samples before and after testing

frequency 频率(MHz)	698	715	780	820	824	834	844
gain 增益(dBi)	4.6	5.19	3.72	4.08	3.71	2.62	1.68
frequency 频率(MHz)	854	864	874	884	894	904	914
gain 增益(dBi)	2.49	2.67	1.48	-0.46	-1.47	0.16	0.68
frequency 频率(MHz)	924	934	944	954	960	1710	1760
gain 增益(dBi)	1.26	-0.52	-1.27	1.14	0.28	-2.28	-1.12
frequency 频率(MHz)	1810	1860	1910	1960	2010	2060	2110
gain 增益(dBi)	-0.53	-1.04	-1.19	-1.84	-3.45	-3.08	-1.55
frequency 频率(MHz)	2160	2210	2260	2310	2350	2400	2460
gain 增益(dBi)	-1.21	-1.71	-0.42	0.32	-0.05	0.04	0.29
frequency 频率(MHz)	2510	2560	2610	2660	2690		
gain 增益(dBi)	0.98	1.66	0.89	0.38	0.56		

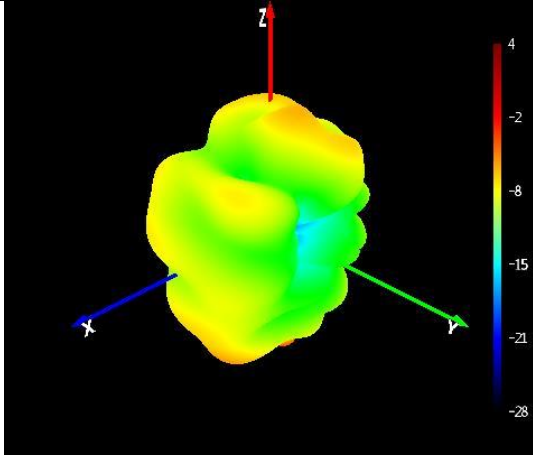


001# LTE antenna sample 3D orientation map (698MHz)

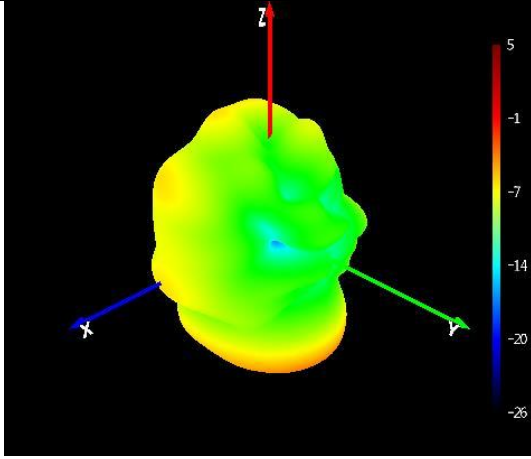
001# LTE antenna sample gain chart



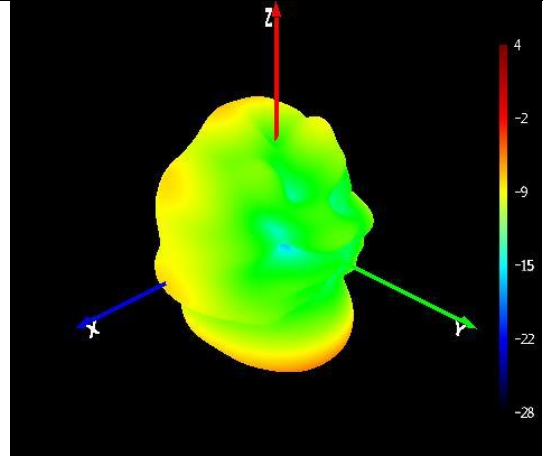
001# LTE antenna sample 3D orientation map (715MHz)



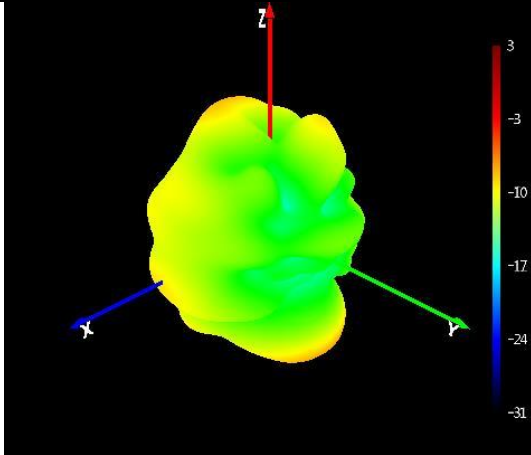
001# LTE antenna sample 3D orientation map (780MHz)



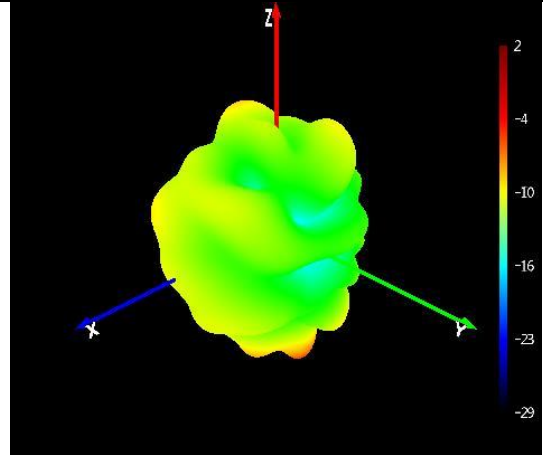
001# LTE antenna sample 3D orientation map (820MHz)



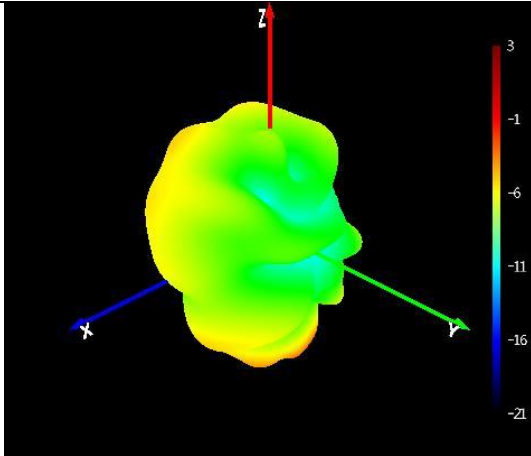
001# LTE antenna sample 3D orientation map (824MHz)



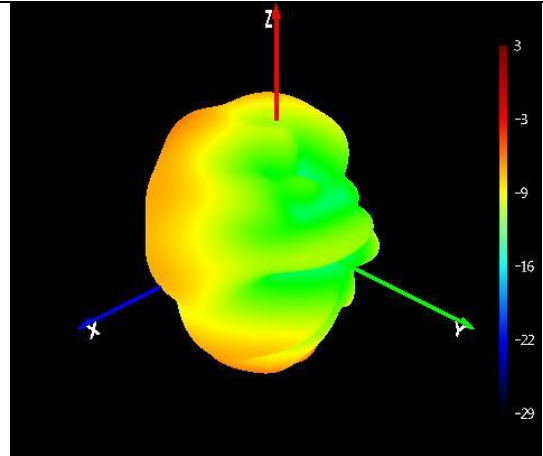
001# LTE antenna sample 3D orientation map (834MHz)



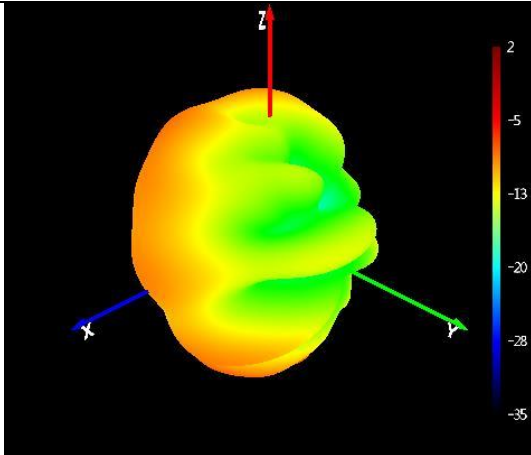
001# LTE antenna sample 3D orientation map (844MHz)



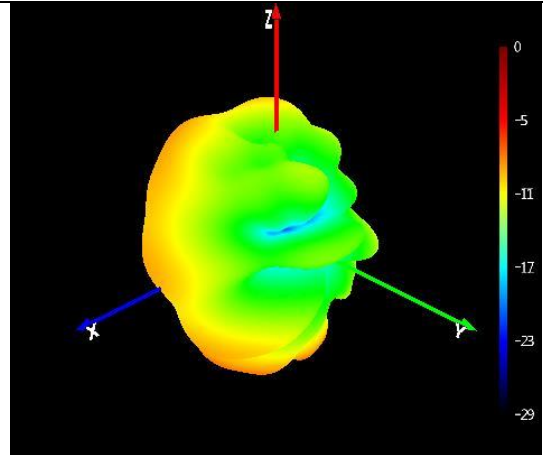
001# LTE antenna sample 3D orientation map (854MHz)



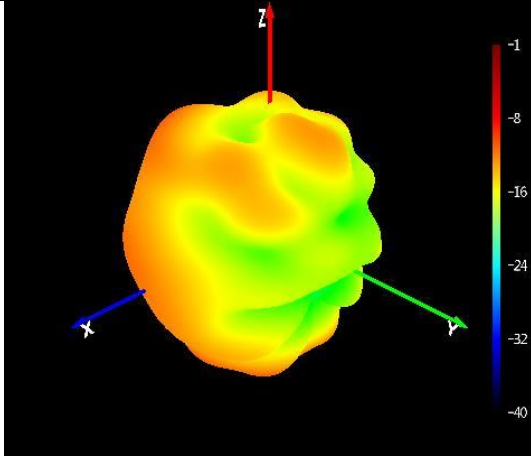
001# LTE antenna sample 3D orientation map (864MHz)



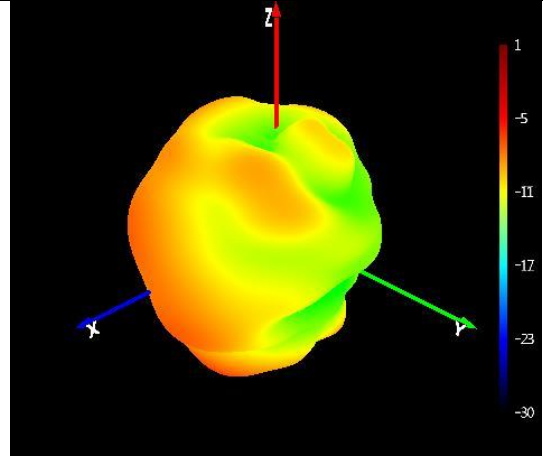
001# LTE antenna sample 3D orientation map (874MHz)



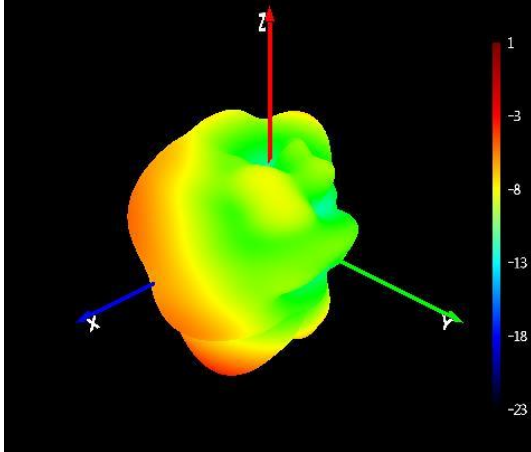
001# LTE antenna sample 3D orientation map (884MHz)



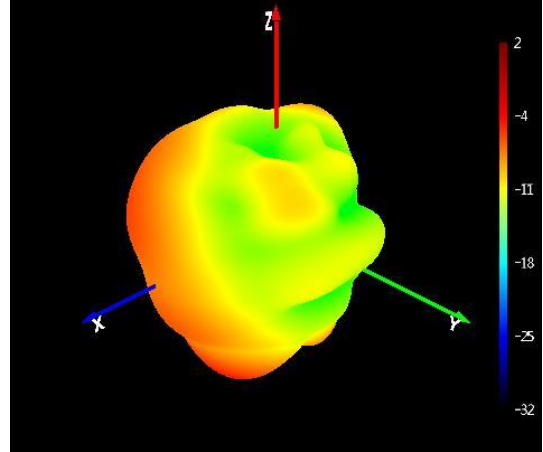
001# LTE antenna sample 3D orientation map (894MHz)



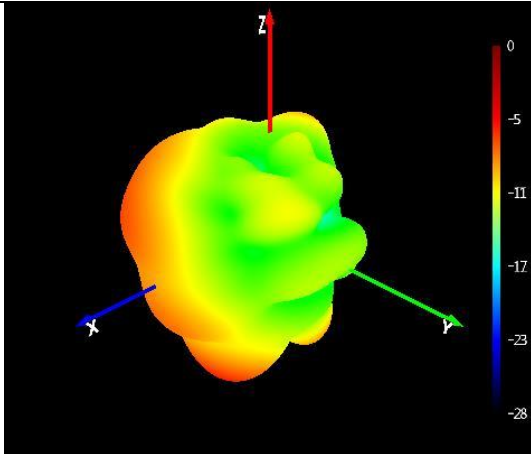
001# LTE antenna sample 3D orientation map (904MHz)



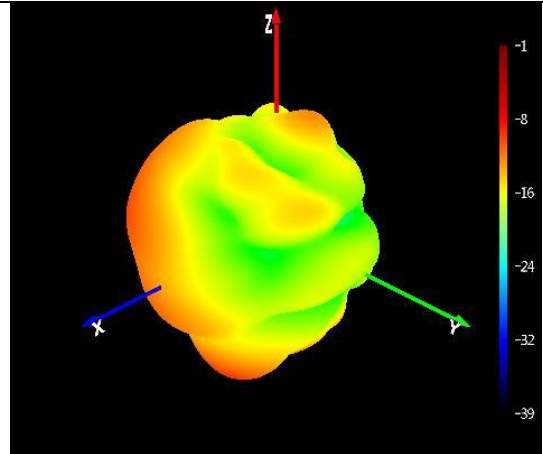
001# LTE antenna sample 3D orientation map (914MHz)



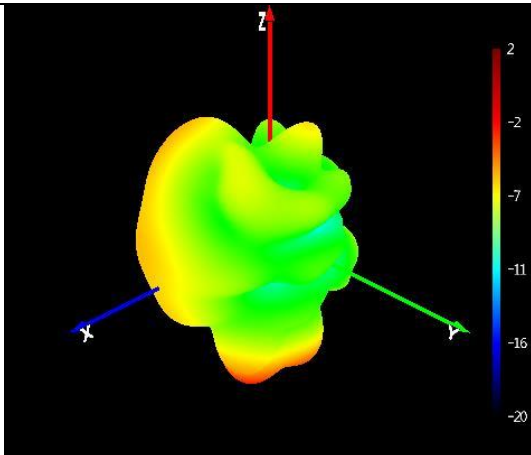
001# LTE antenna sample 3D orientation map (924MHz)



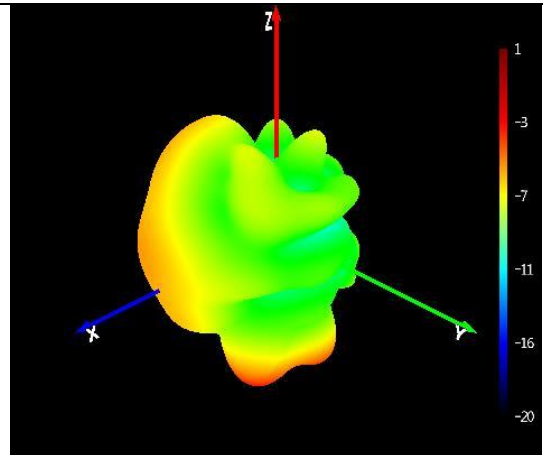
001# LTE antenna sample 3D orientation map (934MHz)



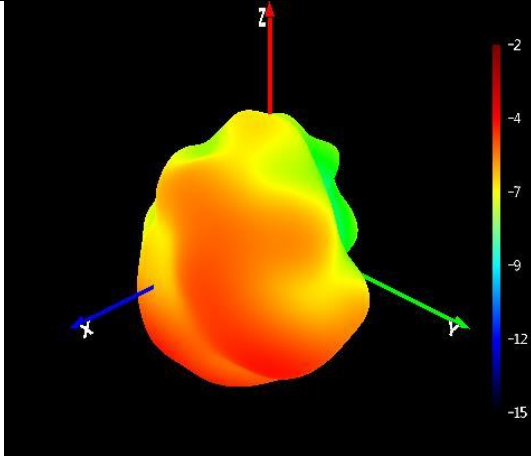
001# LTE antenna sample 3D orientation map (944MHz)



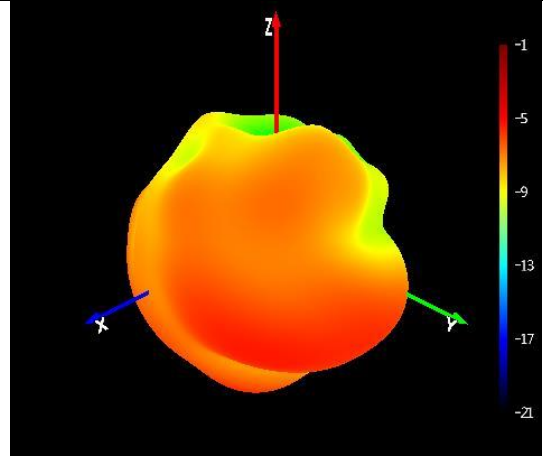
001# LTE antenna sample 3D orientation map (954MHz)



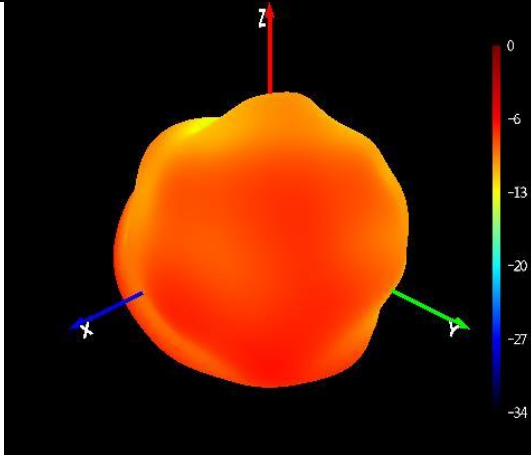
001# LTE antenna sample 3D orientation map (960MHz)



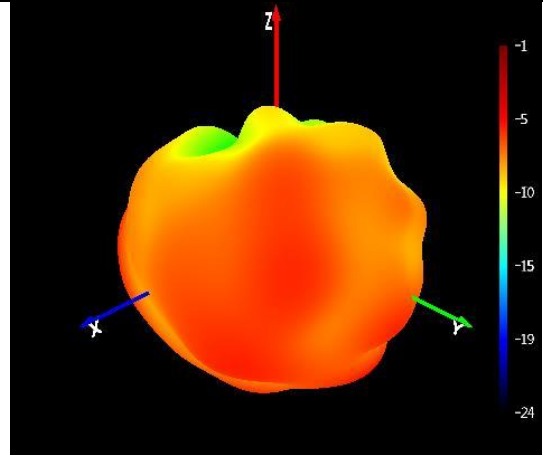
001# LTE antenna sample 3D orientation map (1710MHz)



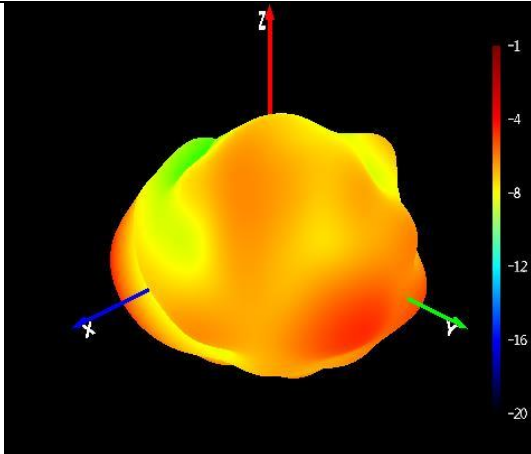
001# LTE antenna sample 3D orientation map (1760MHz)



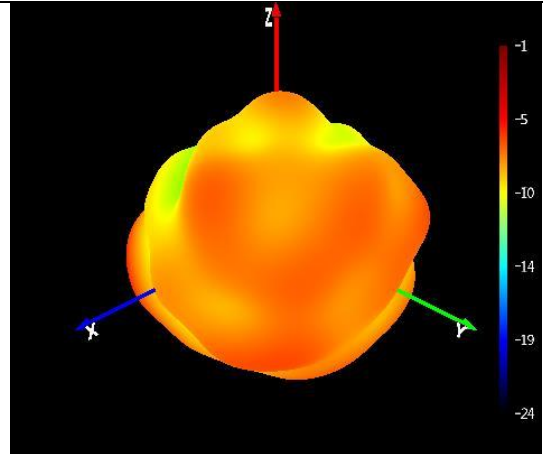
001# LTE antenna sample 3D orientation map (1810MHz)



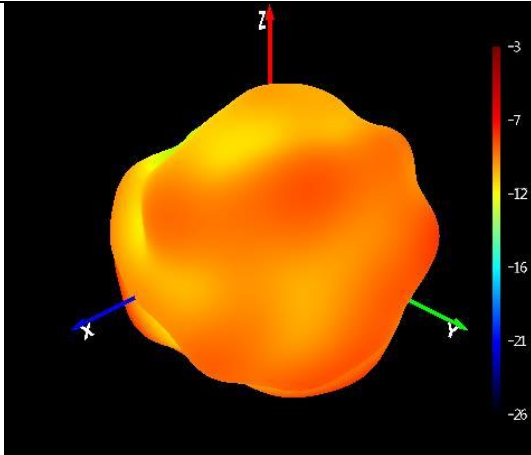
001# LTE antenna sample 3D orientation map (1860MHz)



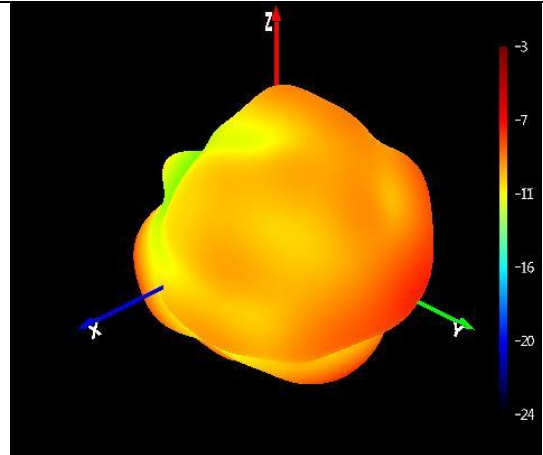
001# LTE antenna sample 3D orientation map (1910MHz)



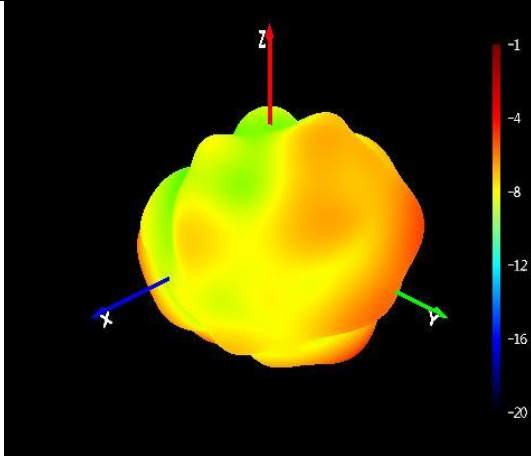
001# LTE antenna sample 3D orientation map (1960MHz)



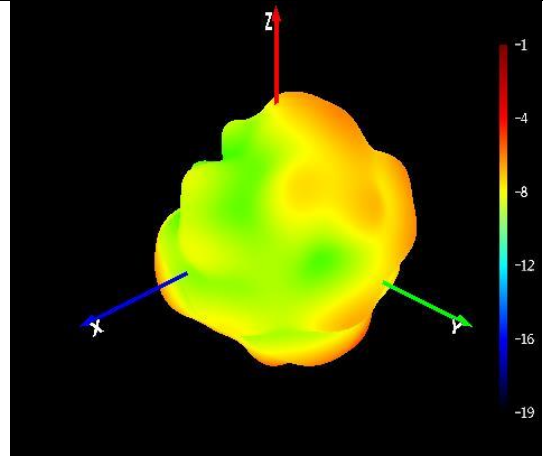
001# LTE antenna sample 3D orientation map (2010MHz)



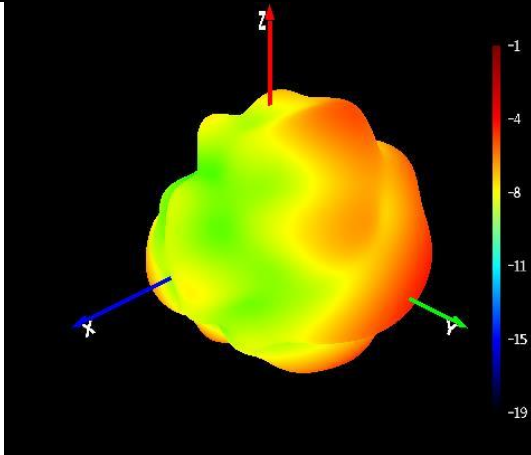
001# LTE antenna sample 3D orientation map (2060MHz)



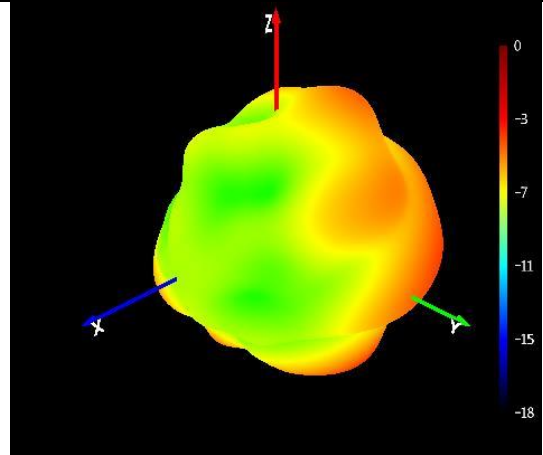
001# LTE antenna sample 3D orientation map (2110MHz)



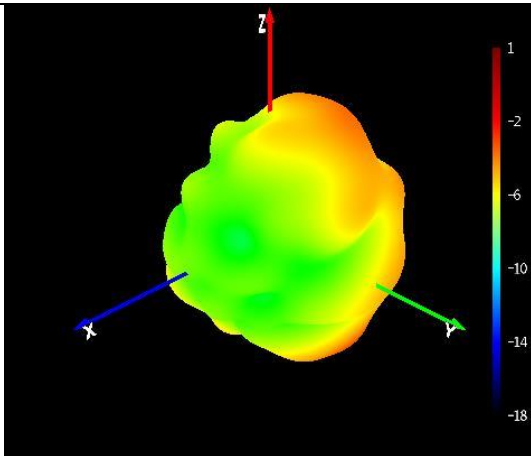
001# LTE antenna sample 3D orientation map (2160MHz)



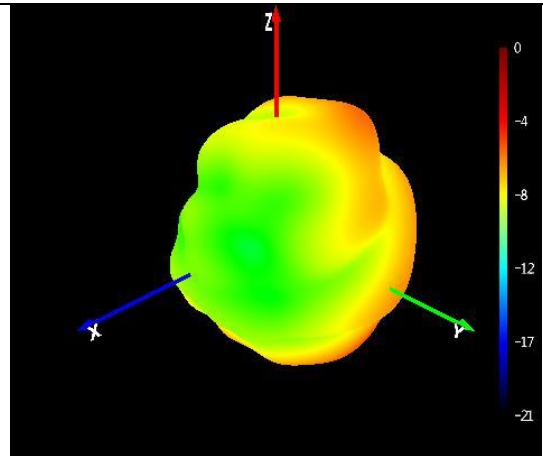
001# LTE antenna sample 3D orientation map (2210MHz)



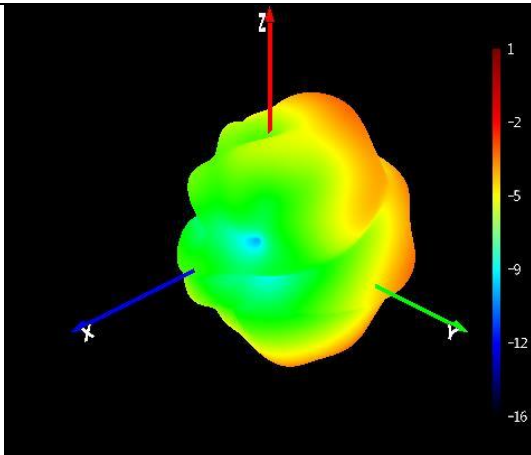
001# LTE antenna sample 3D orientation map (2260MHz)



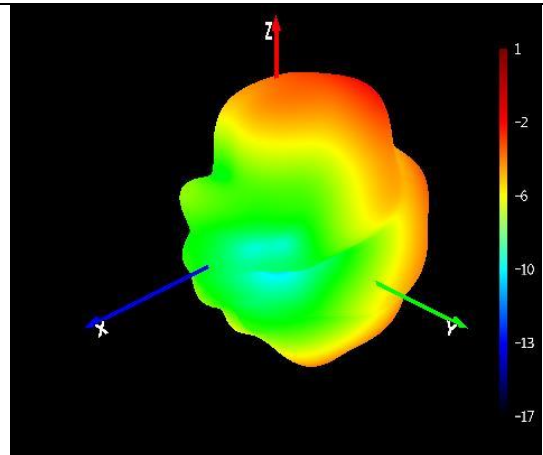
001# LTE antenna sample 3D orientation map (2310MHz)



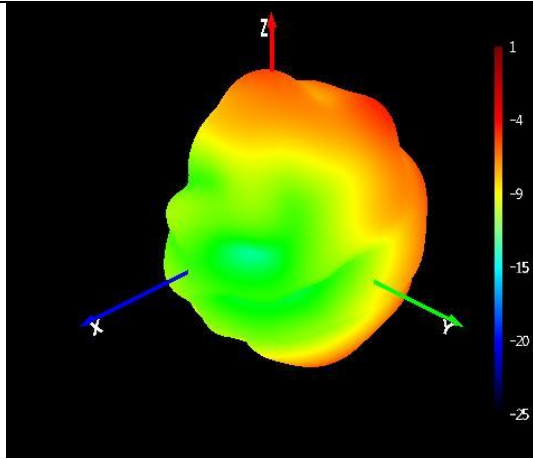
001# LTE antenna sample 3D orientation map (2350MHz)



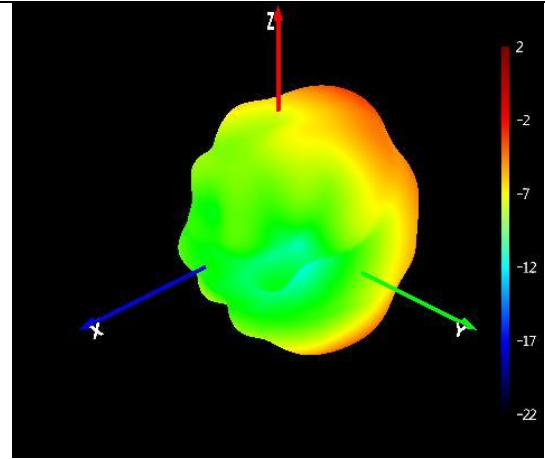
001# LTE antenna sample 3D orientation map (2400MHz)



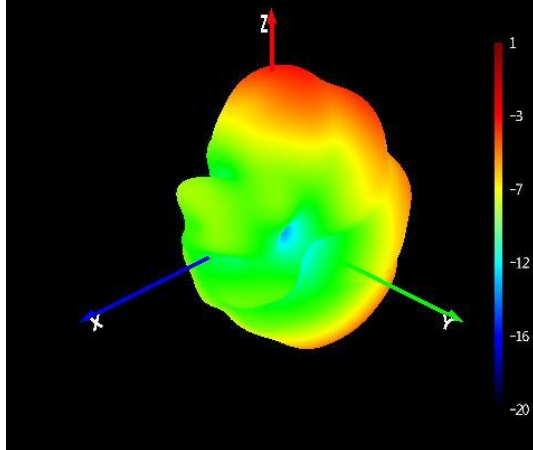
001# LTE antenna sample 3D orientation map (2460MHz)



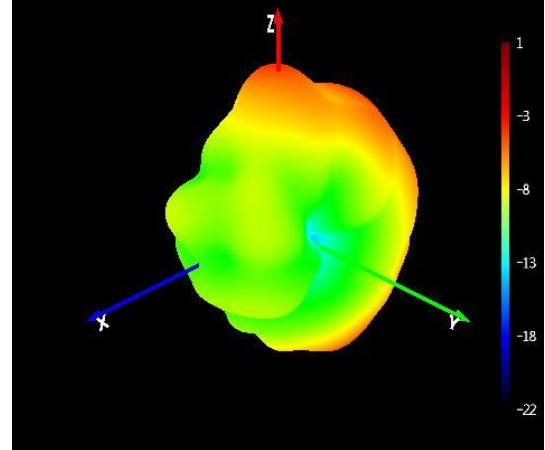
001# LTE antenna sample 3D orientation map (2510MHz)



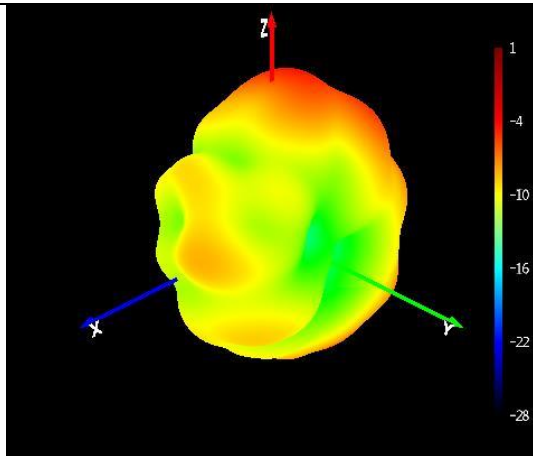
001# LTE antenna sample 3D orientation map (2560MHz)



001# LTE antenna sample 3D orientation map (2610MHz)



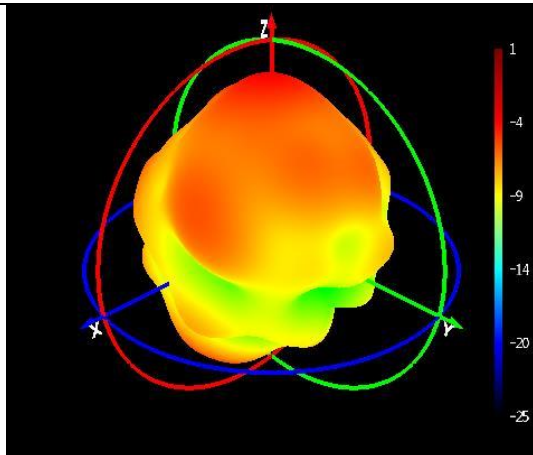
001# LTE antenna sample 3D orientation map (2660MHz)



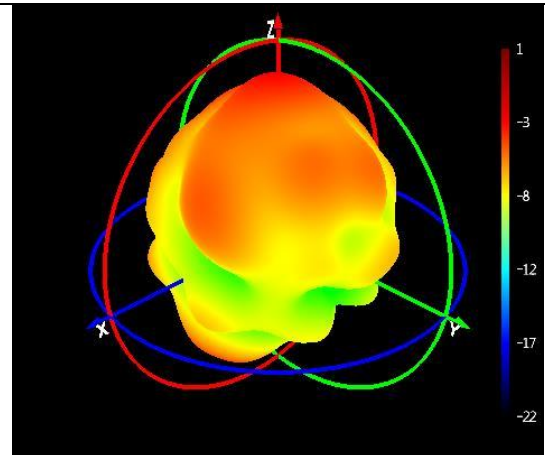
001# LTE antenna sample 3D orientation map (2690MHz)

frequency 频率 (MHz)	1559	1561.098	1575.42	1602	1610
gain 增益(dBi)	30.91	30.55	30.38	29.22	24.97

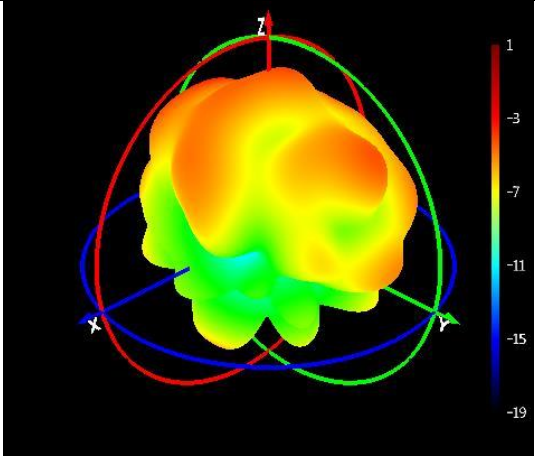
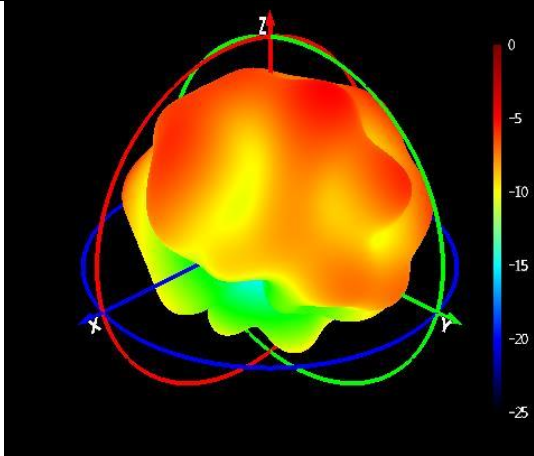
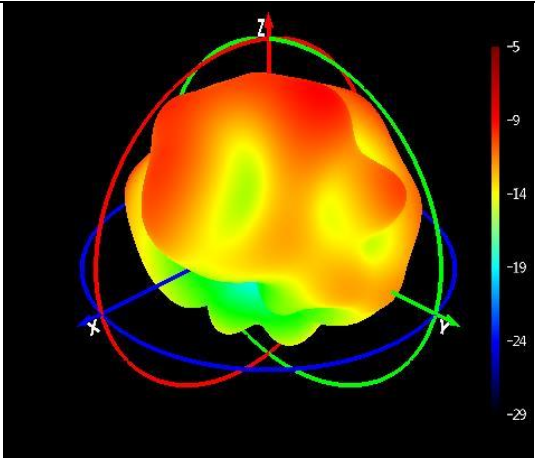
001#GNSS antenna sample gain chart



001#GNSS antenna sample 3D orientation map (1559MHz)



001#GNSS antenna sample 3D orientation map (1561.098MHz)

<p>(+30dB attenuation)</p>  <p>001#GNSS antenna sample 3D orientation map (1575.42MHz) (+30dB attenuation)</p>	<p>(+30dB attenuation)</p>  <p>001#GNSS antenna sample 3D orientation map (1602MHz) (+30dB attenuation)</p>
 <p>001#GNSS antenna sample 3D orientation map (1610MHz) (+30dB attenuation)</p>	<p><i>Blank here</i></p>

----- End of report body -----

Attention

- 1、 This report may not be partially reproduced without the consent of this laboratory.
- 2、 This report is not stamped with the "special seal of the test report" seal is invalid
- 3、 The report without detection, review, approval of the person's signature is invalid.
- 4、 Report alteration is invalid.
- 5、 Any objections to the test report, should be received within 15 working days from the date of the report to the testing unit, the late will not be accepted.
- 6、 The test results are only valid for the tested samples.

Address: # 398 Zhenye Road, Jiaxing Economic Development Zone, Nanhu District,
Jiaxing, Zhejiang, China.

Phone: /

Fax: /

Web address: <https://www.jinchanggps.com>