



Report No.: XCL-AC202402-0012

TEST REPORT

Product Name: Antenna

Model: /

Test Sort: External Commission Test

Client: Sinco Intelligent Technology Co., Ltd.

Test by: Xingci Lab

GUANGDONG XINGCI TESTING TECHNOLOGY RESEARCH Co.,Ltd.



Announcement

1. This report is invalid without seal.
2. This report must not be partially duplicated without permission.
3. The manufacturer would be responsible for the test samples.
4. Xingci Lab would be only responsible for report items of the test sample, this test result is only used for scientific research, teaching, and internal control, and does not have a proof function to the society.
5. If the client has any question about the test report, please contact our lab as agreed within 15 days. Disagreement couldn't be accepted over 15 days.
6. Test report inquires telephone No.:+ 86-757-87744743

Add: No#4, Jinye 2nd road, Yundonghai street, Sanshui, Foshan,Guangdong
Province, China,528100

Tel: 0086-(0757)-87744743

Post Code: 528100

Test Report

Product Name		Antenna		Manufacture Date		/	
Product Model		/		Brand Name		/	
Client	Name	Sinco Intelligent Technology Co., Ltd.					
	Address	Workshop D-2, Assembly Workshop, North Airport Road, Hongqi Town, Jinwan District, Zhuhai City, Guangdong Province, China					
Test Type		External Commission Test					
Test Place		SG64 Anechoic Chamber (Guangdong Xingci testing technology research Co.,Ltd.)					
Sample Qty		1pc		Test Date		Feb 5, 2024	
Test Environment		Temperature: (21~22) °C			Relative Humidity: (62~65) %		
Test Item		Electrical performance: Radiation Pattern, Gain, Vertical Beamwidth(3dB), Horizontal Beamwidth(3dB)					
Test Standard		According to the client's requirements, refer to the following standard: IEEE Std 149 TM -2021					
Test Description		Guangdong Xingci testing technology research Co., Ltd. tested the electrical performance of 1pc of Antenna under the guideline of relevant standard. Please see test result in page 5, Radiation Patterns in pages 6-8.					
Remarks							
Tested by: <i>Lu Guangze</i>			Checked by: <i>Wu Meizhi</i>			Approved by: (Authorized signatory) <i>Wojianhua</i>	
Date: <i>Feb 5, 2024</i>			Date: <i>Feb. 6, 2024</i>			Date: <i>Feb. 6, 2024</i>	

Sample Description

Accessories	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes:
Outlook/Appearance	<input checked="" type="checkbox"/> Qualified <input type="checkbox"/> Unqualified:
Status at the beginning of Test	<input checked="" type="checkbox"/> Working Normally <input type="checkbox"/> Working Abnormally:
Status after Test	<input checked="" type="checkbox"/> Working Normally <input type="checkbox"/> Other:
Photograph	<input type="checkbox"/> No <input checked="" type="checkbox"/> In page 8
Remarks (Provided by the customer)	Antenna size: 34mm×2.5mm

Sample Number

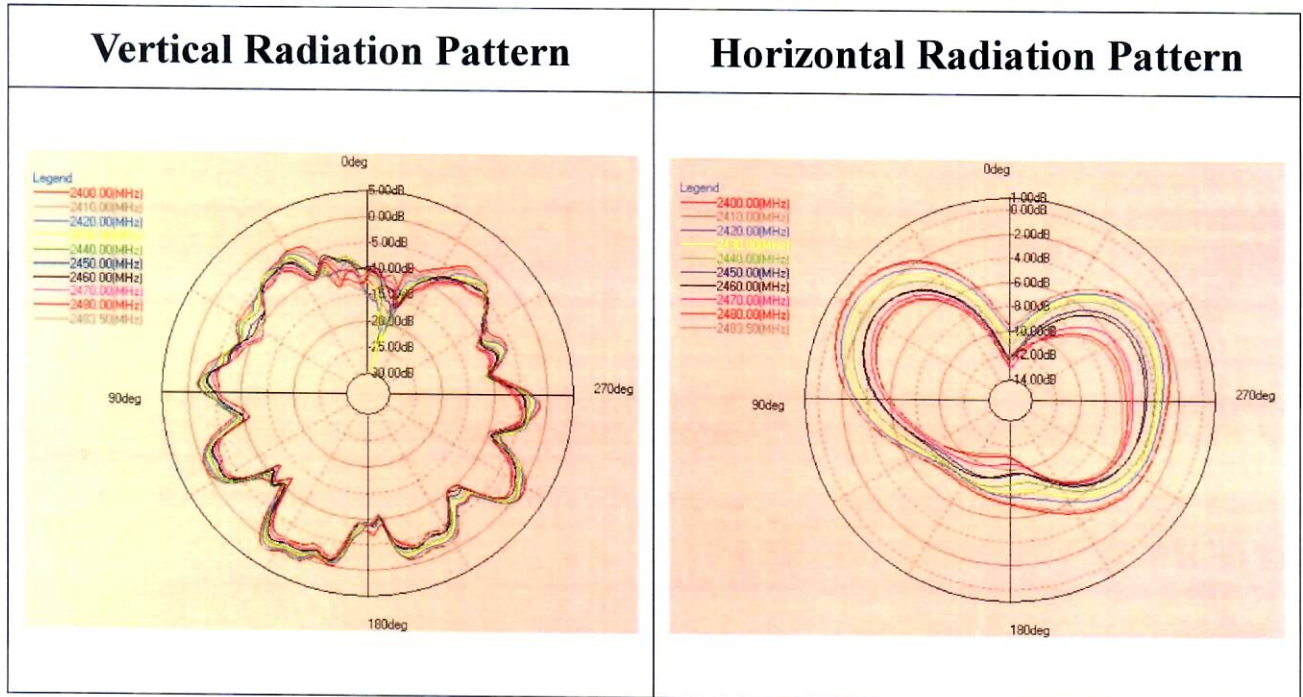
Item	Sample Number	Serial Number
1	AC2024020502	/

Electrical Performance Test Result

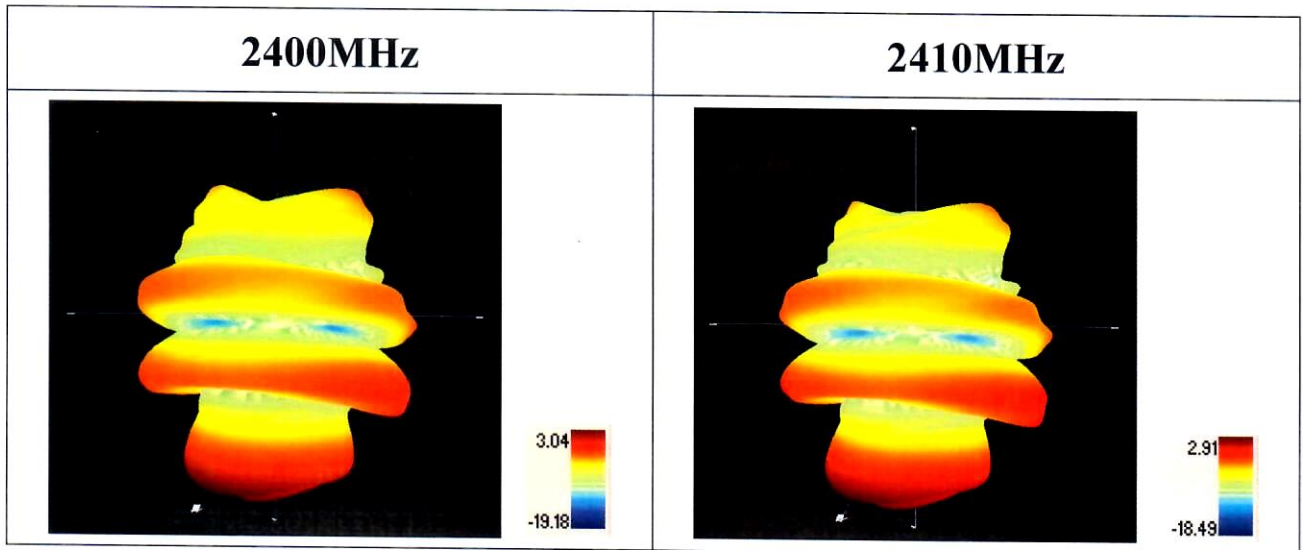
Item	Test Item	Technical Requirement	Unit	Test Frequency (MHz)	Test Result
1	Gain	/	dBi	2400	3.04
				2410	2.91
				2420	2.42
				2430	2.03
				2440	1.75
				2450	1.05
				2460	1.05
				2470	0.45
				2480	-0.06
				2483.5	-0.17
2	Vertical Beamwidth (3dB)	/	deg	2400	28.38
				2410	20.79
				2420	28.16
				2430	28.42
				2440	28.59
				2450	28.53
				2460	28.66
				2470	28.61
				2480	15.35
				2483.5	15.14
3	Horizontal Beamwidth (3dB)	/	deg	2400	65.74
				2410	66.37
				2420	66.52
				2430	66.36
				2440	66.04
				2450	65.75
				2460	65.35
				2470	64.94
				2480	65.01
				2483.5	66.29
4	Radiation Pattern	/	/	2400-2483.5	Pages 6-8
Note: Test Method: Near Field Measurement Method.					

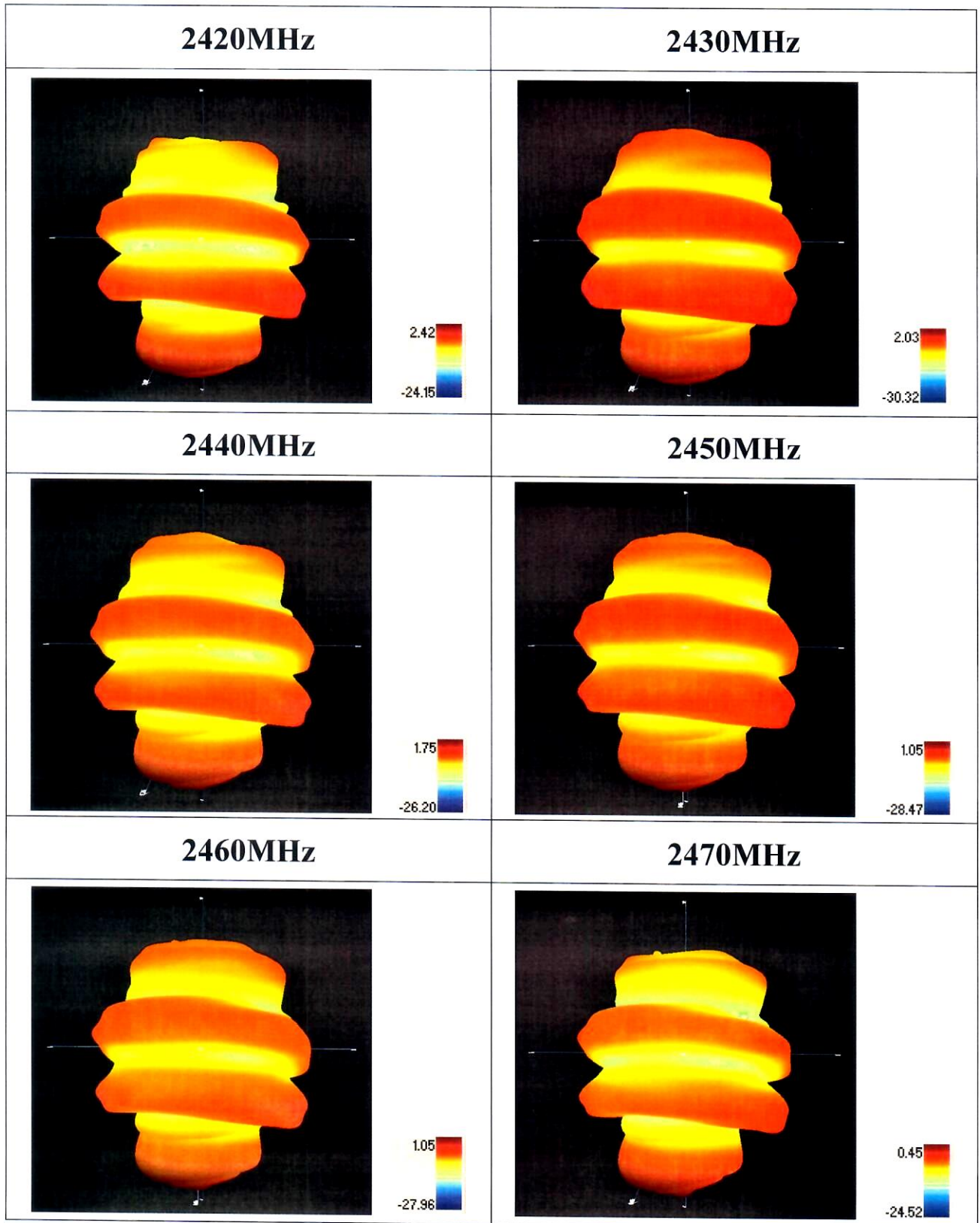
Radiation Pattern

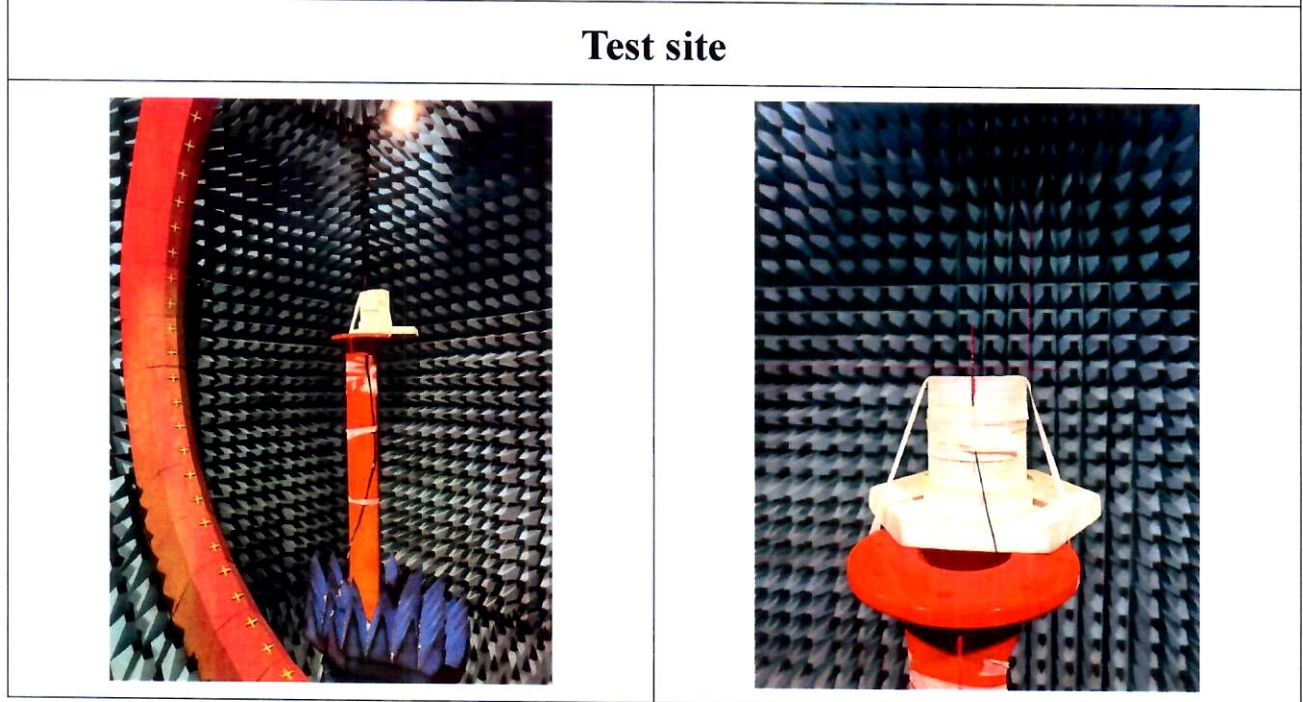
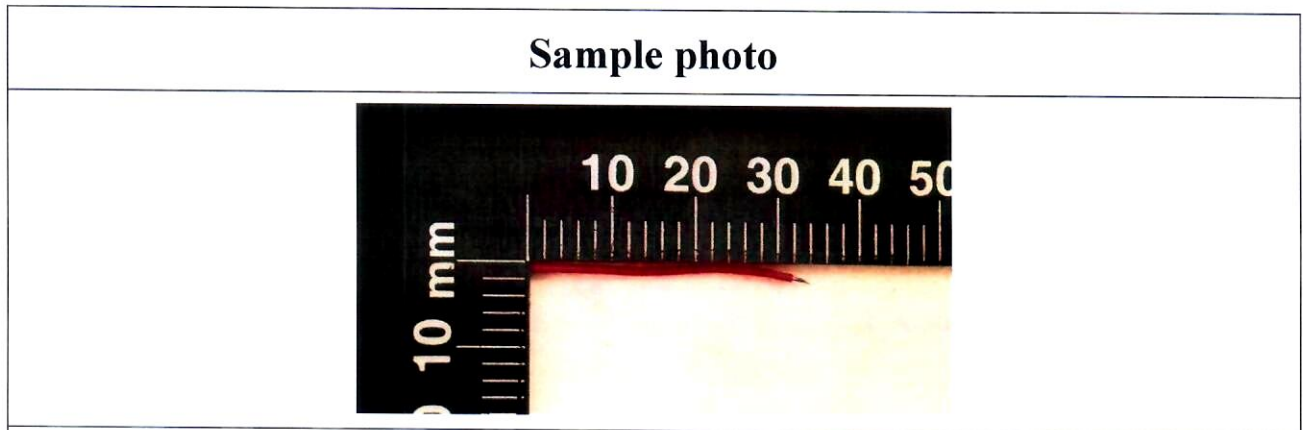
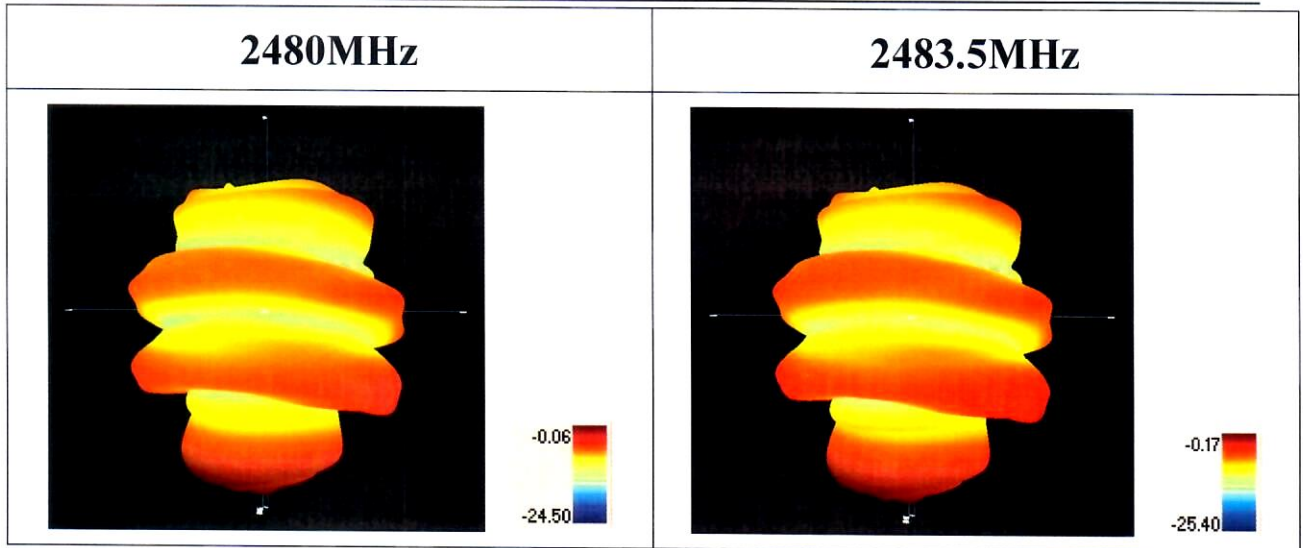
2D



3D







Main instruments and equipment for testing and test system

No.	NAME	Model	SERIAL NUMBER	VALIDITY DATE (DD/MM/YY)
1	Analog Signal Generator	N5172B	MY59100269	06/03/2024
2	Analog Signal Generator	N5181A	MY50140747	06/03/2024
3	Standard Gain Antenna	SH400-440	XCA014	22/11/2024
4	Microwave Anechoic Chamber	5m×5m×5m	XCC03	23/08/2024
5	SG64 Antenna Test System	SATENV 2.0.1.5 Build12	XCXT03	N/A

-----End of Report-----