



Report No.: XCL-AB202504-0027

TEST REPORT

Product Name: T1M Utility Digital Tape Measure PCB Antenna

Model: T1M Utility Digital Tape Measure

Test Sort: External Commission Test

Client: REEKON Tools, Inc.

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		T1M Utility Digital Tape Measure PCB Antenna		Manufacture Date	/
Product Model		T1M Utility Digital Tape Measure		Brand Name	REEKON
Client	Name	REEKON Tools, Inc.			
	Address	50 Terminal St. BLDG 2 STE 611, Charlestown, MA 02129 USA			
Test Type		External Commission Test			
Test Place		SG128 Anechoic Chamber (Guangdong Xingci testing technology research Co., Ltd.)			
Sample Qty		1pc	Test Date	Apr. 11, 2025	
Test Environment		Temperature: (23~23.2) °C		Relative Humidity: (69.1~69.2) %	
Test Item		Electrical performance: Radiation Pattern, Gain			
Test Standard		According to the client's requirements, refer to the following standard: IEEE Std 149™-2021 IEEE Recommended Practice for Antenna Measurements			
Test Description		Guangdong Xingci testing technology research Co., Ltd. tested the electrical performance of 1pc of T1M Utility Digital Tape Measure PCB Antenna under the guideline of relevant standard. Please see test result in page 5, Radiation Patterns in pages 6-8.			
Remarks					
Tested by: <i>Li Jia Sheng</i> Date: Apr. 11, 2025		Checked by: <i>zhang xiao jun</i> Date: Apr. 25, 2025		Approved by: (Authorized signatory)  Date: Apr. 25, 2025	

Sample Description

Accessories	☒ No ☐ Yes:
Outlook/Appearance	☒ Qualified ☐ Unqualified:
Status at the beginning of Test	☒ Working Normally ☐ Working Abnormally:
Status after Test	☒ Working Normally ☐ Other:
Photograph	☐ No ☒ In page 9
Remarks (Provided by the customer)	Antenna size: 8.48mm×2.53mm Device size: 43.91mm×28.28mm Device weight: 0.025kg

Sample Number

Item	Sample Number	Serial Number
1	AB2025041102	/

Electrical Performance Test Result

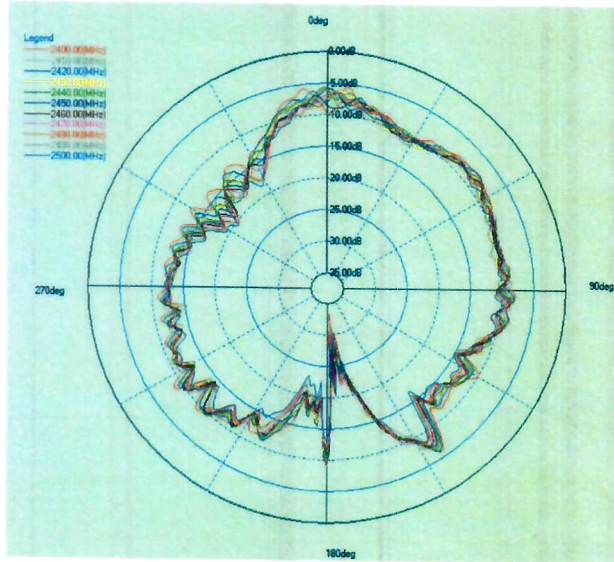
Item	Test Item	Technical Requirement	Unit	Test Frequency (MHz)	Test Result
1	Gain	/	dBi	2400	-1.44
				2410	-2.40
				2420	-1.69
				2430	-2.01
				2440	-1.93
				2450	-2.17
				2460	-2.55
				2470	-2.35
				2480	-3.29
				2490	-2.81
				2500	-4.02
2	Radiation Pattern	/	/	2400-2500	Pages 6-8
Note: Test Method: Near Field Measurement Method.					

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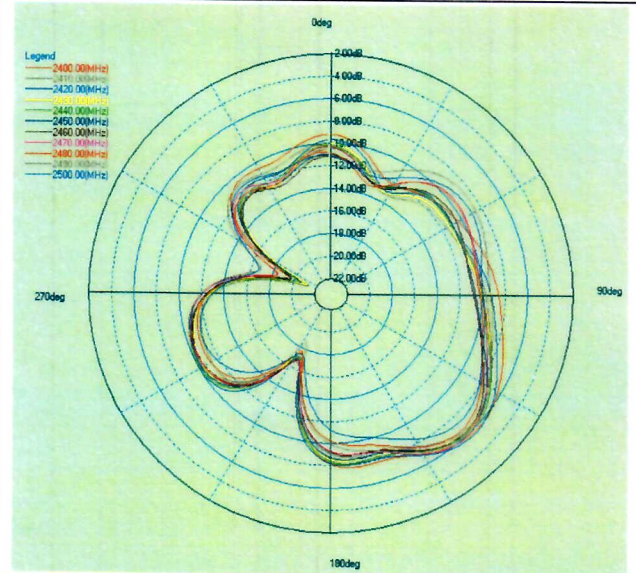
Radiation Pattern

2D

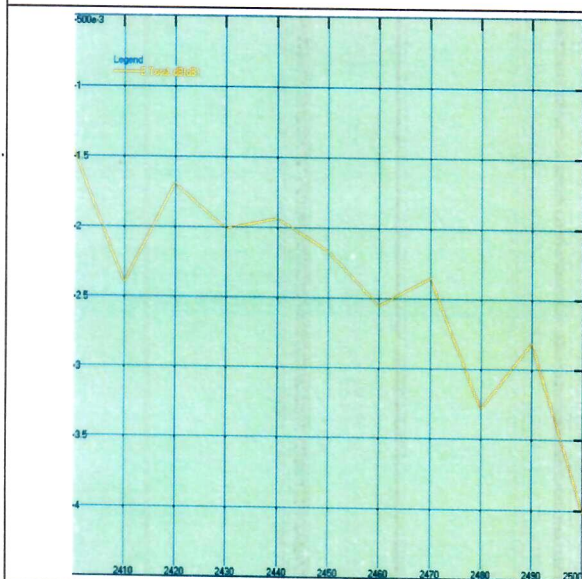
Vertical Radiation Pattern



Horizontal Radiation Pattern

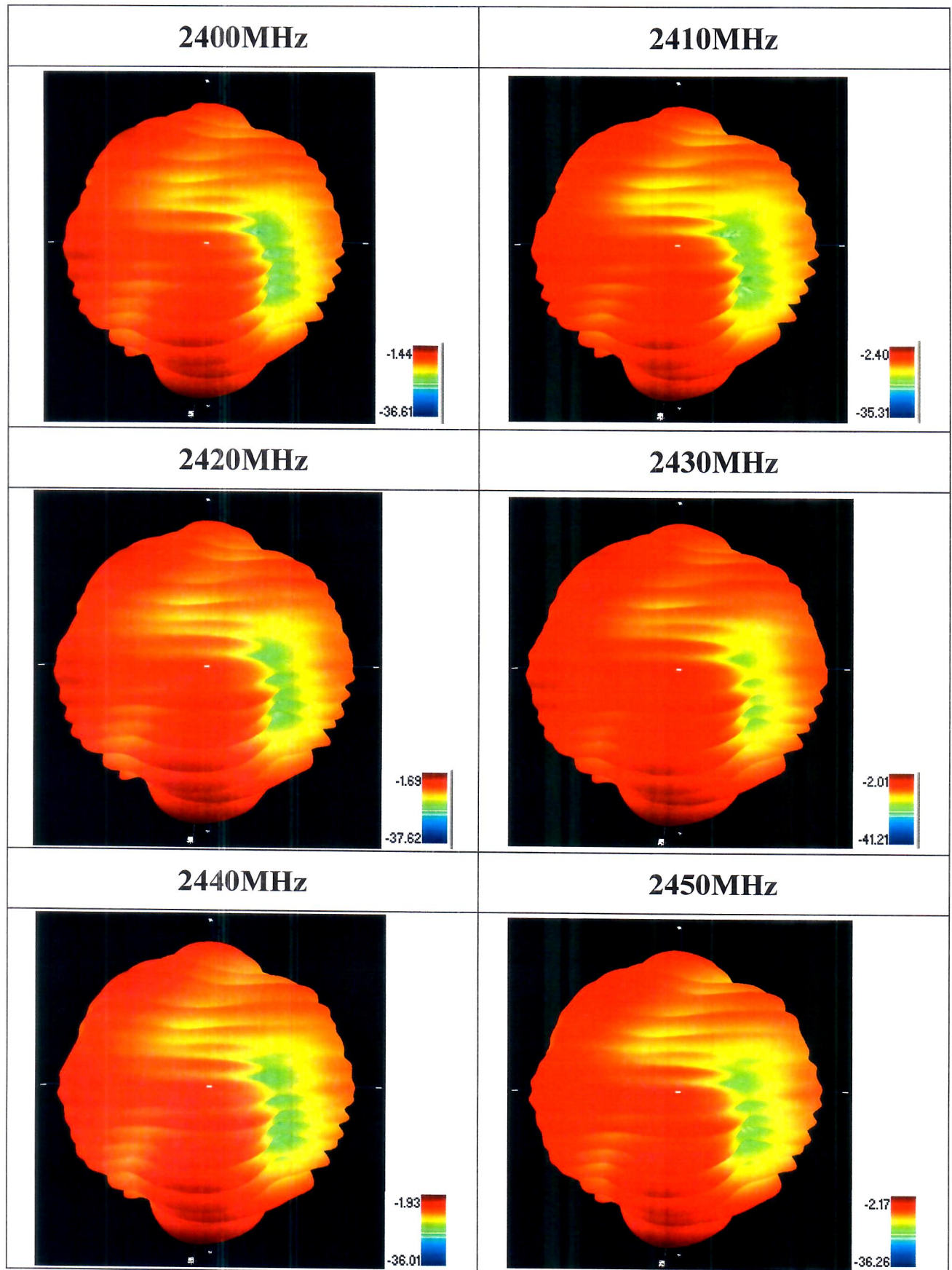


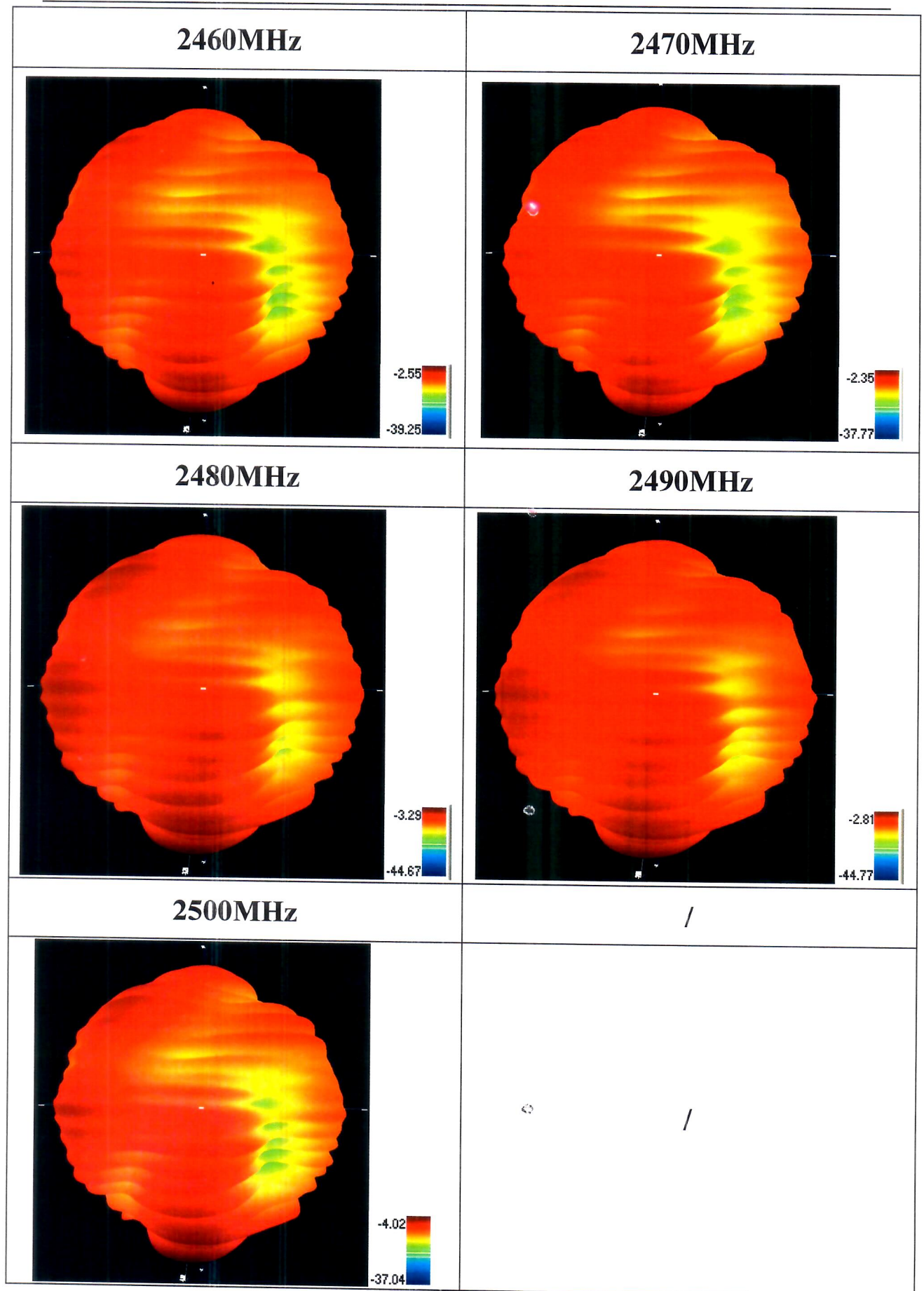
Gain



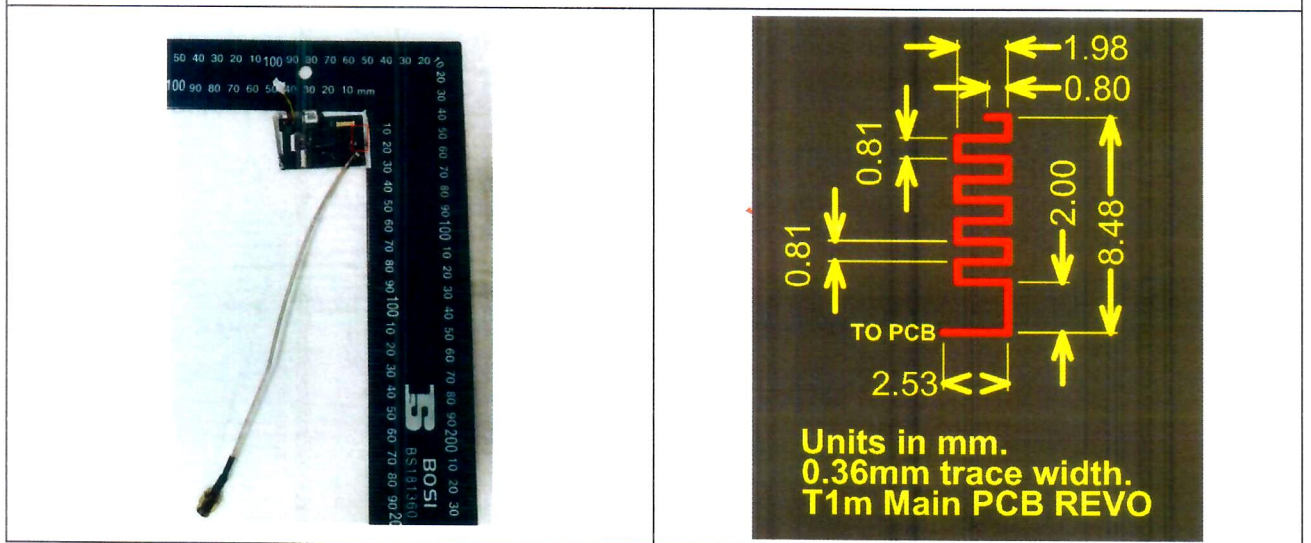
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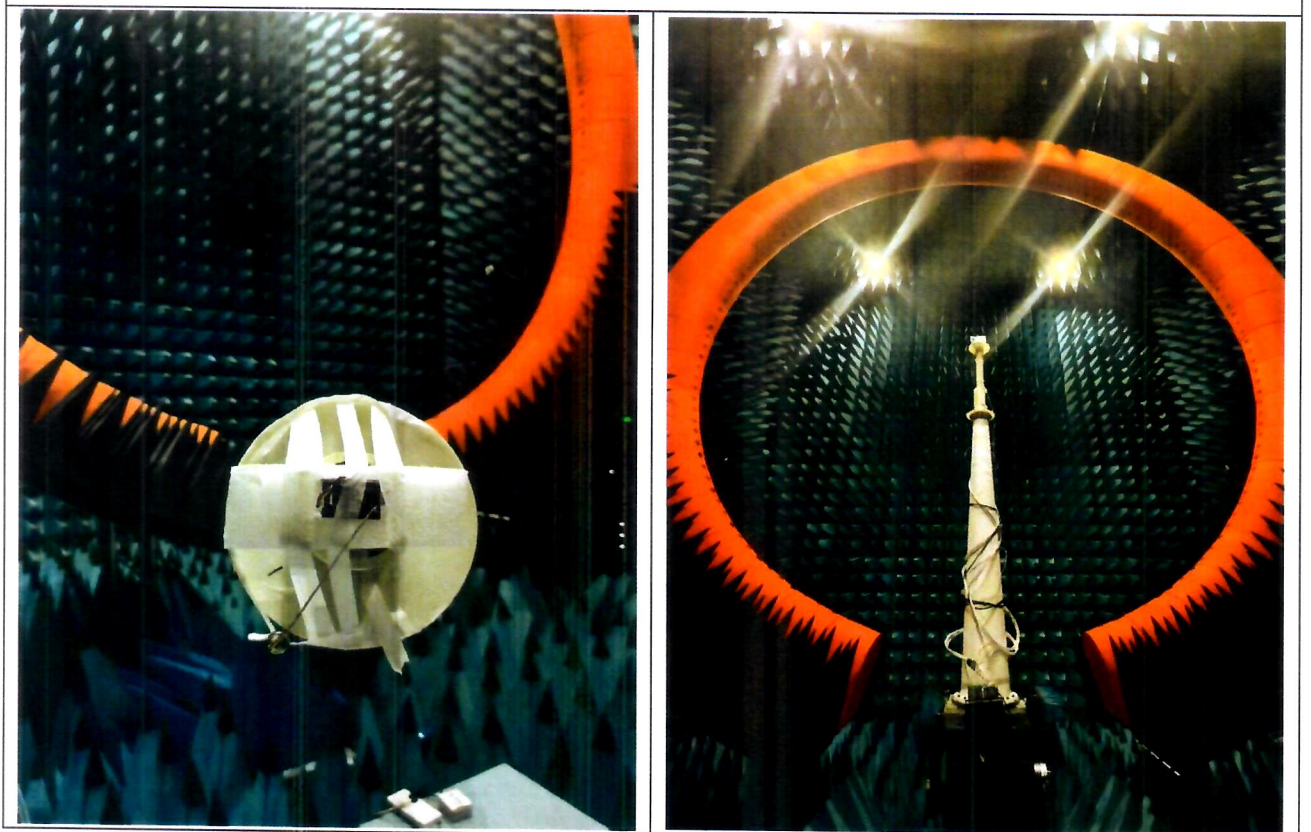
3D



Sample photo



Radiation Pattern Test site



Main instruments and equipment for testing and test system

No.	NAME	Model	SERIAL NUMBER	VALIDITY DATE (DD/MM/YY)
1	Standard Gain Antenna	SH400-374	XCA079	27/05/2025
2	Microwave Anechoic Chamber	11m×10m×10m	XCC02	16/05/2027
3	SG128 Antenna Test System	SG128	1102333-0008	08/11/2025
4	Wave Studio	22.3.2	XCXT10	N/A

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