



中国认可
国际互认
检测
TESTING
CNAS L0262

TEST REPORT

Report No.: 202515011441

Name of the sample: WH-8287 Hook-Shaped Antenna

Model/Type: WH-8287

Applicant: Wuxi Weida Intelligent Electronics Co.,Ltd.

Test Category: Entrusted Inspection

Jiangsu Electronic Information Product Quality Supervision & Inspection Institute
(Jiangsu Information Security Evaluation Center)



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TEST REPORT

General information:

Applicant:	Wuxi Weida Intelligent Electronics Co.,Ltd.
Address:	No.85 Feihong Road, Liangxi District, Wuxi City, Jiangsu Province
Manufacturer	Wuxi Weida Intelligent Electronics Co.,Ltd.
Address:	No.85 Feihong Road, Liangxi District, Wuxi City, Jiangsu Province
Factory	Wuxi Weida Intelligent Electronics Co.,Ltd.
Address	No.85 Feihong Road, Liangxi District, Wuxi City, Jiangsu Province
Name of the sample :	WH-8287 Hook-Shaped Antenna
Trade Mark	N/A
Model/Type	WH-8287
Sample Quantity	1 set
Production Date / Lot No :	N/A
Date of receipt :	2025-11-22

Sample acquisition mode:

☒ Client delivering sample	
☐ Sampling	
Sampling Location:	
Sampling Base	
Date of test :	2025-11-26
Test Result	This test only provides test data.
Tested by :	zhou Lejia
Checked by	Lu Jie
Approved by(Name+ Signature):	Zhu Zhongui
Date of issue :	2025-12-01
Note	



General sample information:

Composition and state of sample.....: The sample for this test is the WH-8287 hook-shaped antenna, with a model specification of WH-8287. The main operating frequency points of the sample are 2400MHz, 2450MHz and 2500MHz. The sample reception status is good and meets the testing conditions.

Sample Photograph(s).....: See photo page.

Main function description.....: the radio frequency (RF) signal transmission and reception of remote control devices (such as TVs, projectors, set-top boxes, etc.) ("The information of this part in the report is provided by the applicant, who is responsible for its authenticity.").

Additional Information.....: None.

Test Standard:

1. **IEEE Std 149-2021** IEEE Recommended Practice for Antenna Measurements
2. Entrustment Letter for Inspection and Testing

Test Instructions:

Received 1 sets/pcs samples for testing, actual test 1 sets/pcs. Please find corresponding test group and sample number in the test result.

Name	Model/Type	Test sample number	No. in this report
WH-8287 Hook-Shaped Antenna	WH-8287	20250112312001	1#

Testing location/ address: No.100 Jinshui Road, Binhu District, Wuxi, Jiangsu, PRC.

Additional Information.....:

1. JEPSI is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) provided by the applicant.
2. JEPSI is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant.
3. The Entrustment Letter for Inspection and Testing only provides test standard information and frequency points selection.
4. For this test, the EMT-AMS Antenna Measurement System Software (Version V 2.0.1) was used.
5. During this test, the test frequency points were 2400MHz, 2450MHz and 2500MHz. For the "Gain" item, the test results show the Theta angle cut plane where the maximum gain of the main polarization is located (the cross-polarization cut plane is the same as the main polarization at the same frequency point), as well as the maximum gain values of the main polarization and cross-polarization. For the "Radiation Pattern" item, the results show the Theta angle cut plane where the maximum gain of the main polarization and cross-polarization is located (this part of the content is determined by the client).
6. During this test, the records of atmospheric pressure, temperature and humidity in the test environment are shown in the table below.

Test Data	Temperature (°C)	Relative humidity (%)	Atmospheric pressure (kPa)
2025-11-26	18.3	29.0	101.5



Possible test case verdicts:

- test case does not apply to the test object....: N/A
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement...: F (Fail)

STATEMENT:

1. This test report is invalid if it is without special inspection seal of the test laboratory.
2. This test report is invalid if altered or without signatures from compilation and audit or not signed by the authorized signature.
3. This test report shall not be reproduced, except in full, without the written consent of Jiangsu Electronic Information Product Quality Supervision and Inspection Institute(Jiangsu Information Security Evaluation Center).
4. The information about the samples in the report is provided by the applicant, who is responsible for its authenticity. The test results are only responsible for the tested samples.
5. The agency does not bear legal liability to the data provided by the applicant.
6. If you have any question, please bring them to our attention within 15 days from the date of report receipt. (Please lodge them to the assignment department if the task is consigned by the government.)
7. For the report without CMA logo, the data and results provided by the report are only for the applicant to understand the quality of the sample.
8. In this test report, Entrustment Letter for Inspection and Testing standard is not approved by CNAS.



Summary of test results

Test Group	No.	Test Item	Technical Requirements	Sample Quantity	Unqualified number	Verdict
1	1	Gain	Entrustment Letter for Inspection and Testing	1	/	/
			IEEE Std 149-2021			
	2	Efficiency	Entrustment Letter for Inspection and Testing	1	/	/
			IEEE Std 149-2021			
	3	Radiation Pattern	Entrustment Letter for Inspection and Testing	1	/	/
			IEEE Std 149-2021			
Note		"/" indicates that this test item does not require judgment.				



Test Result

1. Gain

Test Results

Sample No.	Polarization Mode	Frequency/MHz	Cut Plane of Maximum Gain (Theta Angle)	Maximum Gain on Cut Plane/dBi
1#	Main Polarization (Vertical Polarization)	2400	Theta=53°	2.30
		2450	Theta=55°	3.19
		2500	Theta=55°	3.53
	Cross-Polarization (Horizontal Polarization)	2400	Theta=53°	-3.36
		2450	Theta=55°	-2.31
		2500	Theta=55°	-1.59



2. Efficiency

Test Results

Sample No.	Frequency/MHz	Efficiency/dB	Efficiency/%
1#	2400	-4.78	33.29
	2450	-3.76	42.09
	2500	-3.45	45.18

3. Radiation Pattern

Test Results

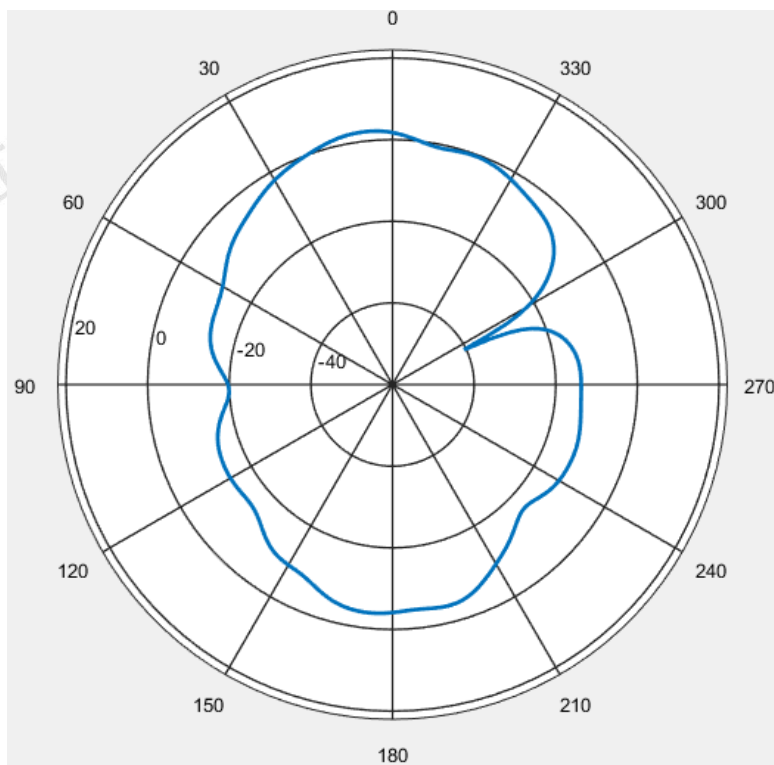


Figure 1. Cut Plane of Maximum Main Polarization Gain for Sample 1# (Theta=53°@2400MHz)

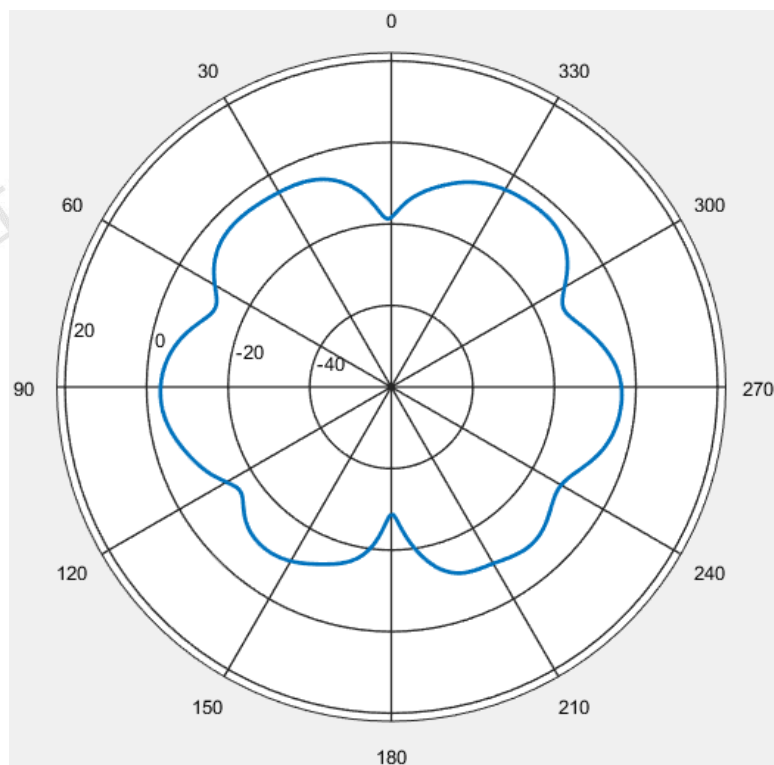


Figure 2. Cut Plane of Maximum Cross-Polarization Gain for Sample 1# (Theta=53°@2400MHz)

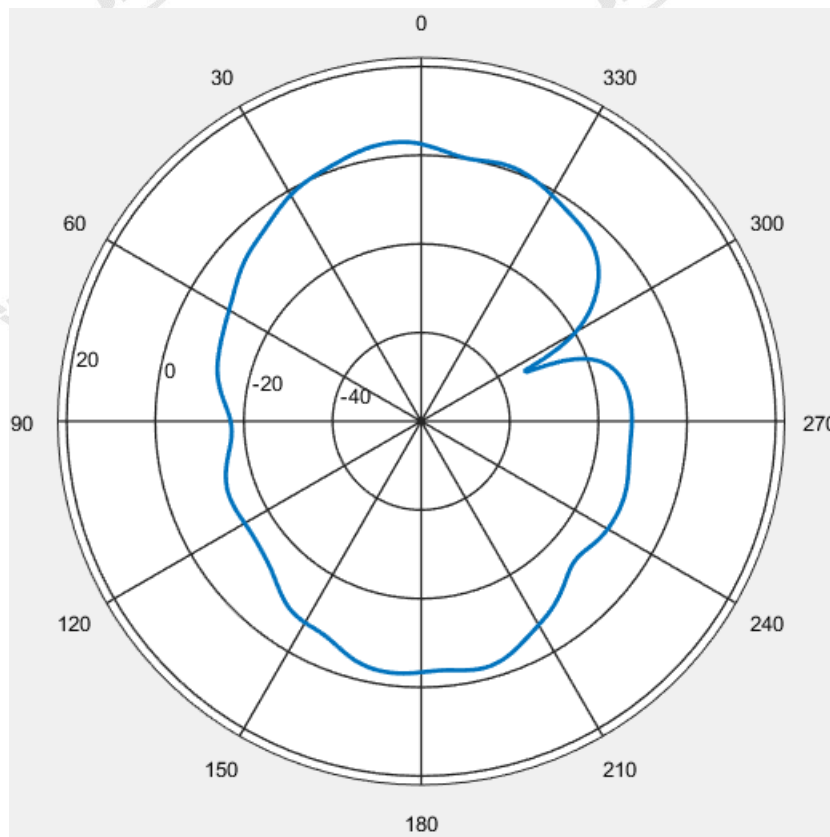


Figure 3. Cut Plane of Maximum Main Polarization Gain for Sample 1# (Theta=55°@2450MHz)

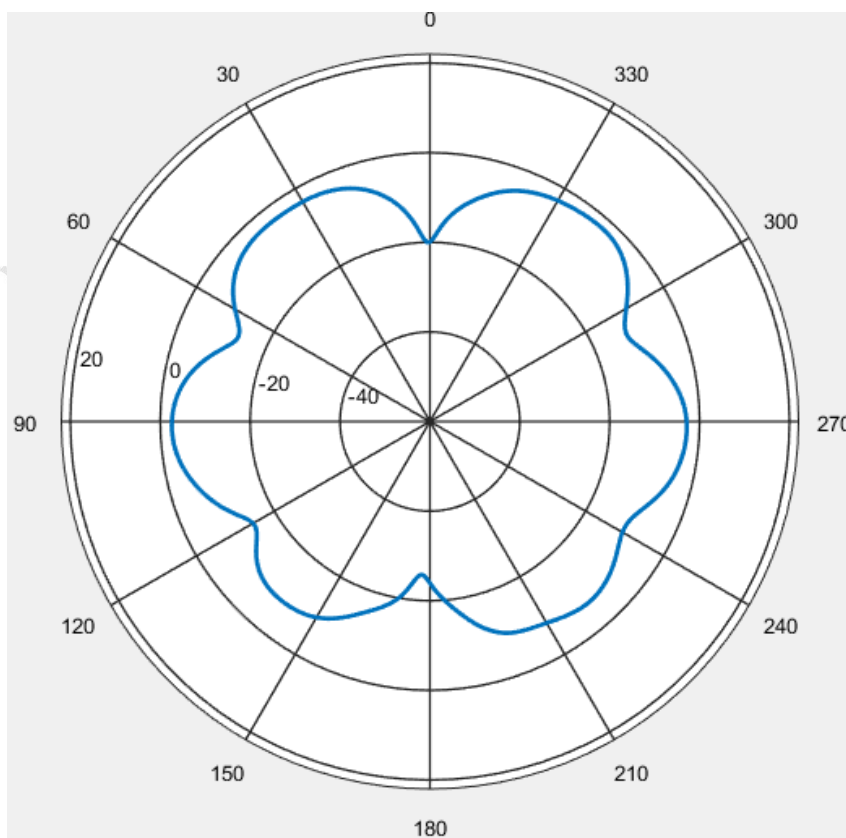


Figure 4. Cut Plane of Maximum Cross-Polarization Gain for Sample 1# (Theta=55°@2450MHz)

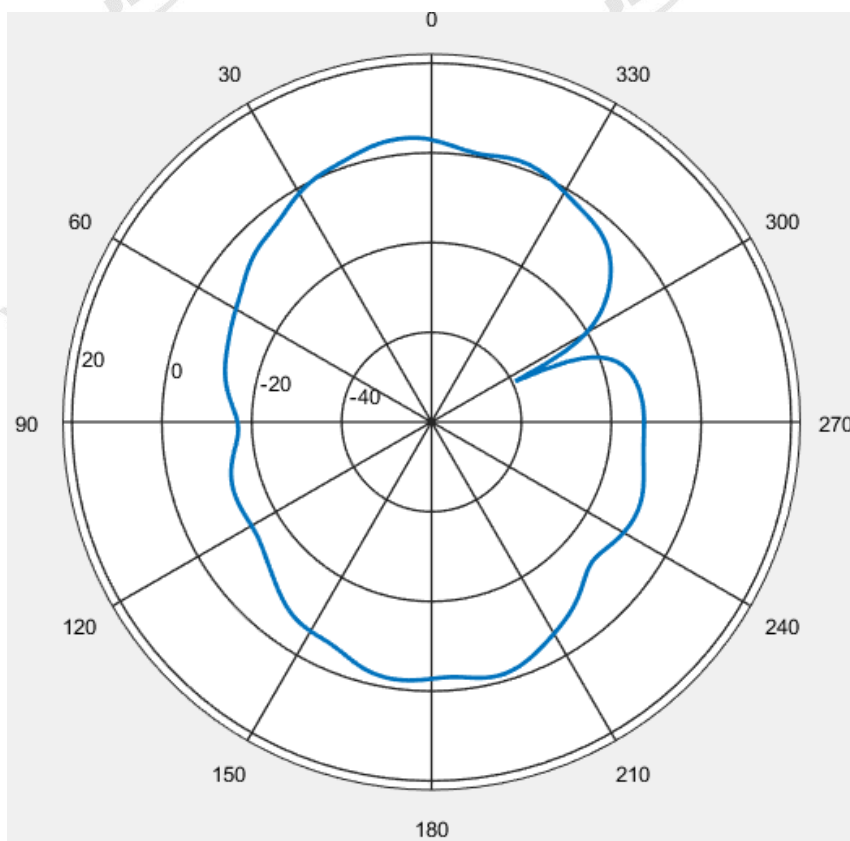


Figure 5. Cut Plane of Maximum Main Polarization Gain for Sample 1# (Theta=55°@2500MHz)

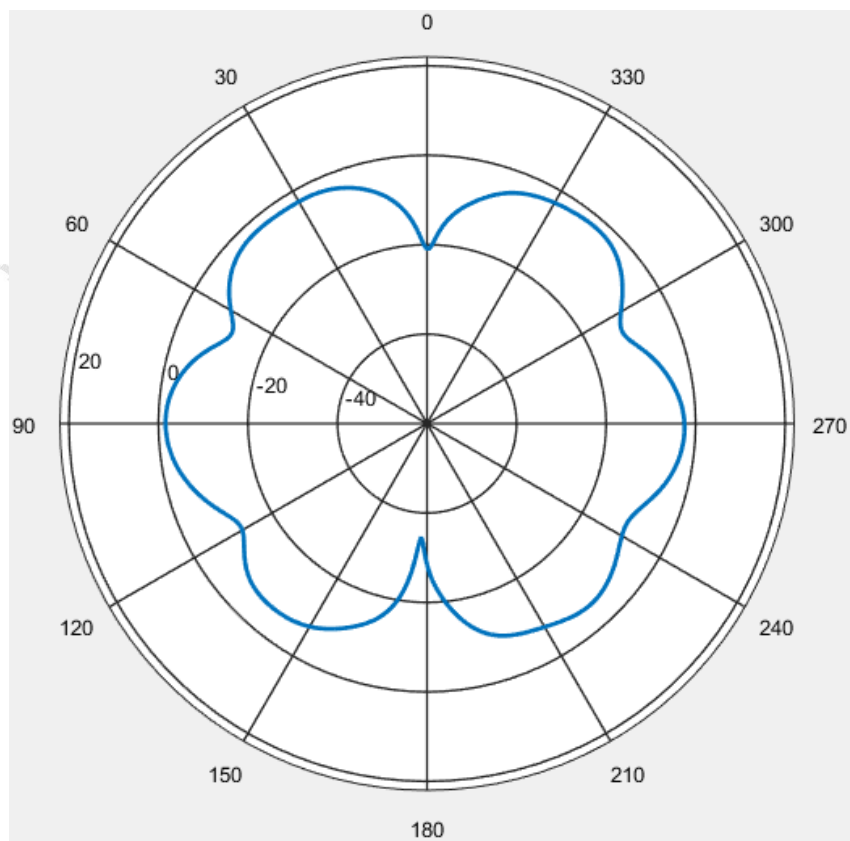


Figure 6. Cut Plane of Maximum Cross-Polarization Gain for Sample 1# (Theta=55°@2500MHz)



4. List of Test Instrument

No.	Instrument	Manufacturer	Model No.	S/N	Version	Calibration Cycle
1	Network Analyzer	R&S	ZVB8	101348	4.31.7.2	2025/04/03~2026/04/02
2	Antenna Measurement System (OTA Test System)	EM-Testing	EMT68FF	EMT68FF-ZZ001	/	2024/11/09~2027/11/08
3	Antenna Measurement System (OTA) Shielding	EM-Testing	EMT68FF	EMT68FF-ZZ001	/	2025/10/22~2026/10/21
4	EMT-AMS Antenna Measurement System Software	/	/	/	V2.0.1	/

Photos

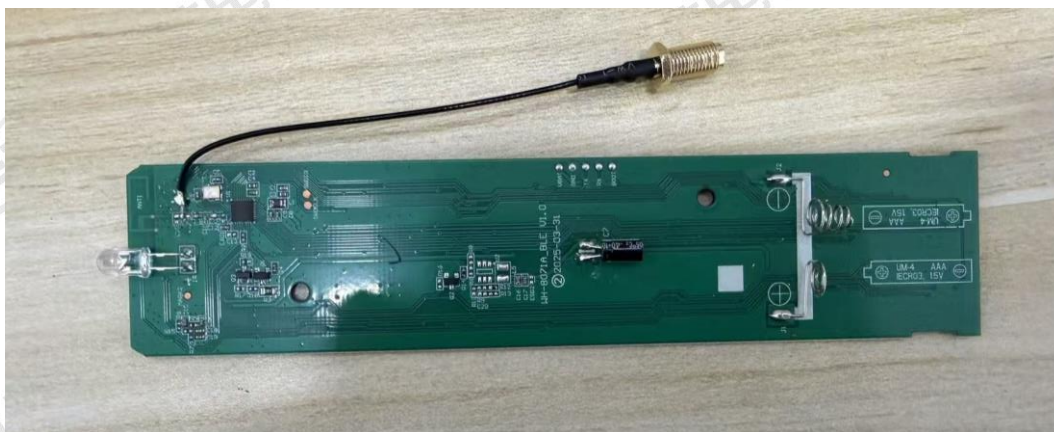


Figure 1. Front view of the EUT

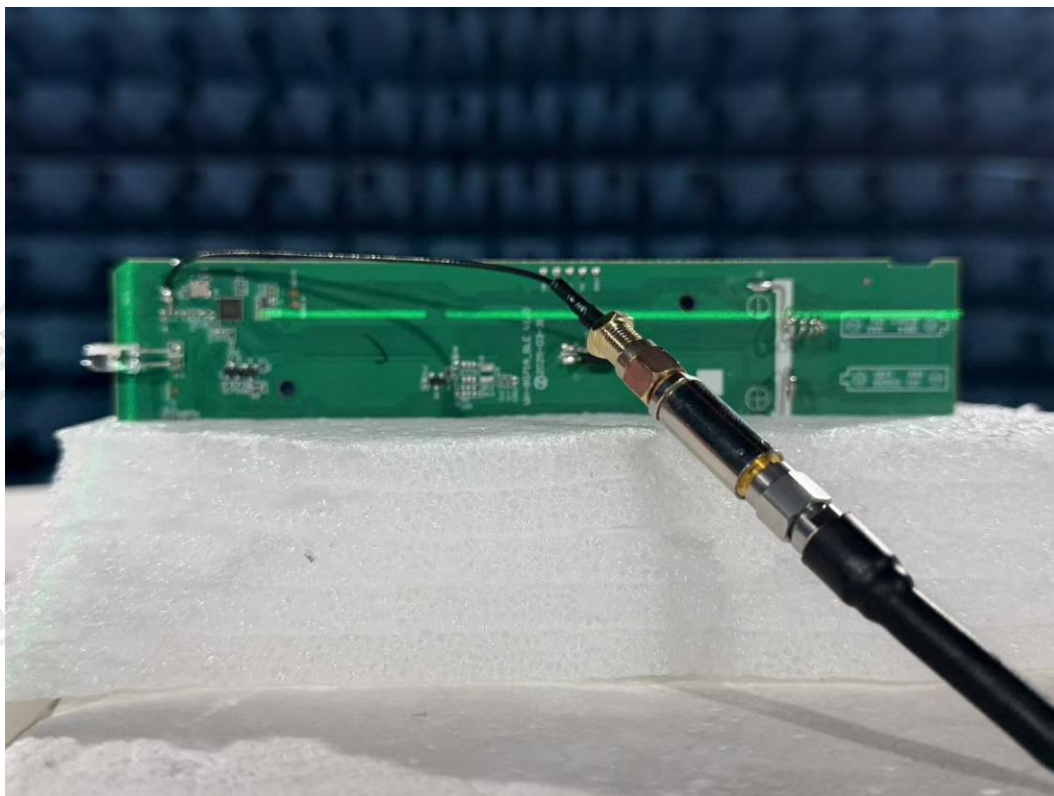


Figure 2. Photo of Sample Testing Arrangement

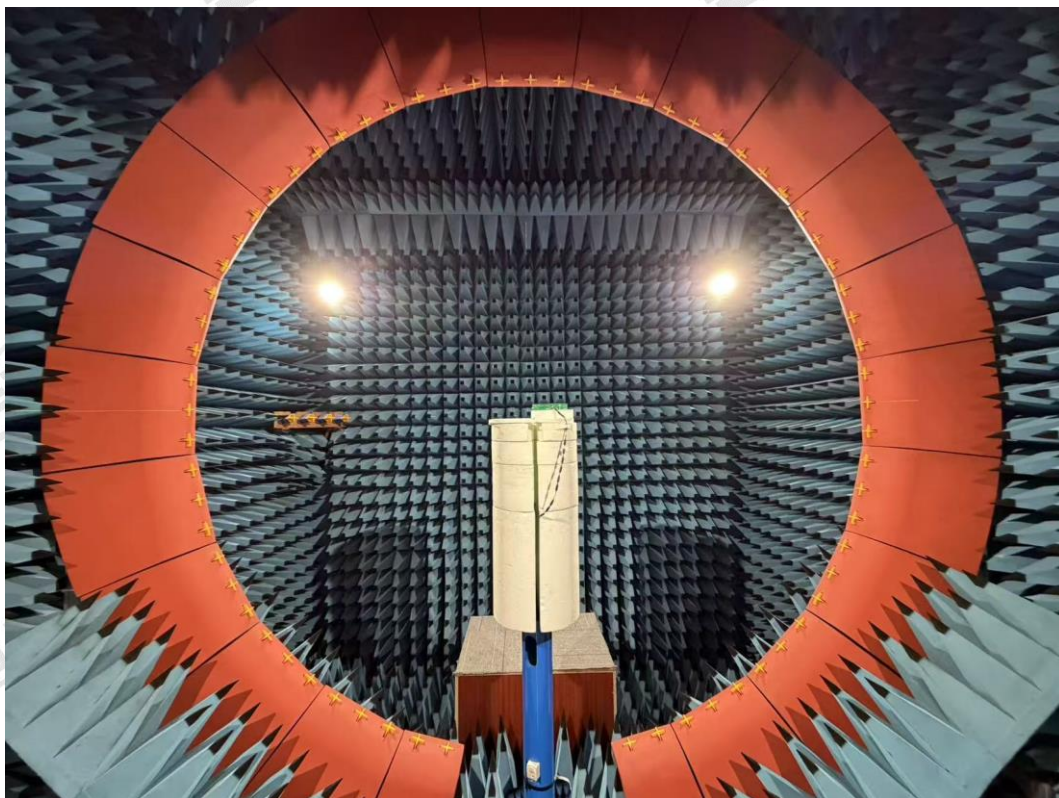


Figure 3. Photo of Sample Testing Environment

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