

Test Report

Verified code: 195440

Report No.: E202602095828-1EN

Customer: 9361-4147 Quebec Inc.

Address: 1765 Ave Stravinski. Brossard. Québec. Canada J4X 2J6

Sample Name: ski boot heaters battery

Sample Model: PS-35R

Receive Sample Date: Feb.10,2026

Test Date: Feb.10,2026 ~ Feb.10,2026

Reference Document: ANSI IEEE 149-2021 Part 7, Part 8, Part 10

Test Result: Not make judgment

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Issued Date: 2026-03-04

APPROVED(01)

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TABLE OF CONTENTS

1.	TEST RESULT SUMMARY	5
2.	GENERAL DESCRIPTION OF EUT	6
2.1	APPLICANT INFORMATION	6
2.2	MANUFACTURER.....	6
2.3	FACTORY	6
2.4	BASIC DESCRIPTION OF EUT	6
2.5	SAMPLE WORK DESCRIPTION	6
3.	LABORATORY AND ACCREDITATION	7
3.1	LABORATORY	7
4.	MEASUREMENT UNCERTAINTY.....	8
5.	EQUIPMENT AND TOOLS USED DURING TEST	9
6.	ANTENNA RADIATION PERFORMANCE MEASUREMENT	10
6.1	LIMITS	10
6.2	TEST PROCEDURE	10
6.3	CONFIGURATION OF SYSTEM UNDER TEST	11
6.4	TEST PHOTOS.....	12
6.5	TEST RESULTS.....	13
7.	PHOTOGRAPH OF THE EUT.....	16

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E202602095828-1EN	Original Issue	2026-2-27

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1. TEST RESULT SUMMARY

Test Item	Test Frequency	Test Method	Test Scene	Test Result
Gain	2400MHz ~ 2483.5MHz	ANSI IEEE 149-2021 Part 8	Free space	/ ¹⁾
Efficiency (%)	2400MHz ~ 2483.5MHz	ANSI IEEE 149-2021 Part 10	Free space	/ ¹⁾
Radiation patterns	2400MHz ~ 2483.5MHz	ANSI IEEE 149-2021 Part 7	Free space	/ ¹⁾
Note 1): Customer-defined test, test results do not make judgment.				

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT INFORMATION

Name:	9361-4147 Quebec Inc.
Address:	1765 Ave Stravinski. Brossard. Québec. Canada J4X 2J6

2.2 MANUFACTURER

Name:	Kunming Honghao Technology Co., Ltd.
Address:	No. 103-2, 1st Floor, Building A, Aerospace and IT Science & Technology Park, No. 1389 Changyuan North Road, High-tech Zone, Kunming City, Yunnan Province

2.3 FACTORY

Name:	Kunming Honghao Technology Co., Ltd.
Address:	No. 103-2, 1st Floor, Building A, Aerospace and IT Science & Technology Park, No. 1389 Changyuan North Road, High-tech Zone, Kunming City, Yunnan Province

2.4 BASIC DESCRIPTION OF EUT

Product Name:	ski boot heaters battery
Product Model:	PS-35R
Trade Name:	THERMOPIED
Frequency Band:	2400MHz ~ 2483.5MHz
Sample submitting way:	☒ Provided by customer ☐ Sampling
Voltage:	5V DC
Part Number:	ANT1
Sample No:	E202602095828-0001
Note:	The laboratory does not bear any consequences for the authenticity, completeness and effectiveness of the above product information.

2.5 SAMPLE WORK DESCRIPTION

Serial No.	Work description
a)	The sample is erected according to the standard, so that the sample can be tested under normal operation

3. LABORATORY AND ACCREDITATION

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add.: No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District Shenzhen, 518110, People's Republic of China.

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4. MEASUREMENT UNCERTAINTY

Uncertainty is calculated according to ISO's "Guide to the Expression of Uncertainty in Measurement" (GUM), and the extended uncertainty is expressed using an inclusion factor of $k=2$ and a 95% confidence level.

Measurement	Uncertainty
Gain	0.75

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5. EQUIPMENT AND TOOLS USED DURING TEST

Name of Equipment	Manufacturer	ModelNo.	Serial No.	Calibration Due
Spherical near-field test system full anechoic chamber	SUZHOU EM-PRO TECHNOLOGY CO.,LTD	EMT-GD001	EP128-20210710-01	2028-03-08
Network analyzer	KEYSIGHT	E5071C	MY46901661	2026-08-08
Spherical near-field test system	SUZHOU EM-PRO TECHNOLOGY CO.,LTD	Software Version v3.2	/	/
Reference Antenna	SUZHOU EM-PRO TECHNOLOGY CO.,LTD	400MHz-6GHz	MET400-11-2	2026-02-21

Note:The effective calibration period for Spherical near-field test system full anechoic chamber is 3 years, The effective calibration period for Network analyzer and Reference Antenna is 1 years.

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6. ANTENNA RADIATION PERFORMANCE MEASUREMENT

6.1 LIMITS

Test Item	Test Frequency	Limits
Gain	2400MHz ~ 2483.5MHz	/ ¹⁾
Efficiency (%)	2400MHz ~ 2483.5MHz	/ ¹⁾
Radiation patterns	2400MHz ~ 2483.5MHz	/ ¹⁾
Note 1): Customer-defined tests, unlimited definitions.		

6.2 TEST PROCEDURE

a) Adjust the ambient temperature of the test system to within 20°C-30 °C.

b) System gain calibration:

1) Set up the standard antenna so that the apparent phase center of the standard antenna is consistent with the geometric center of the system, rotate the turntable by 90 °, and adjust the phase center of the standard antenna again;

2) Start the test after setting the test frequency;

3) Gain calibration data is calculated and stored on the control computer.

c) Antenna test:

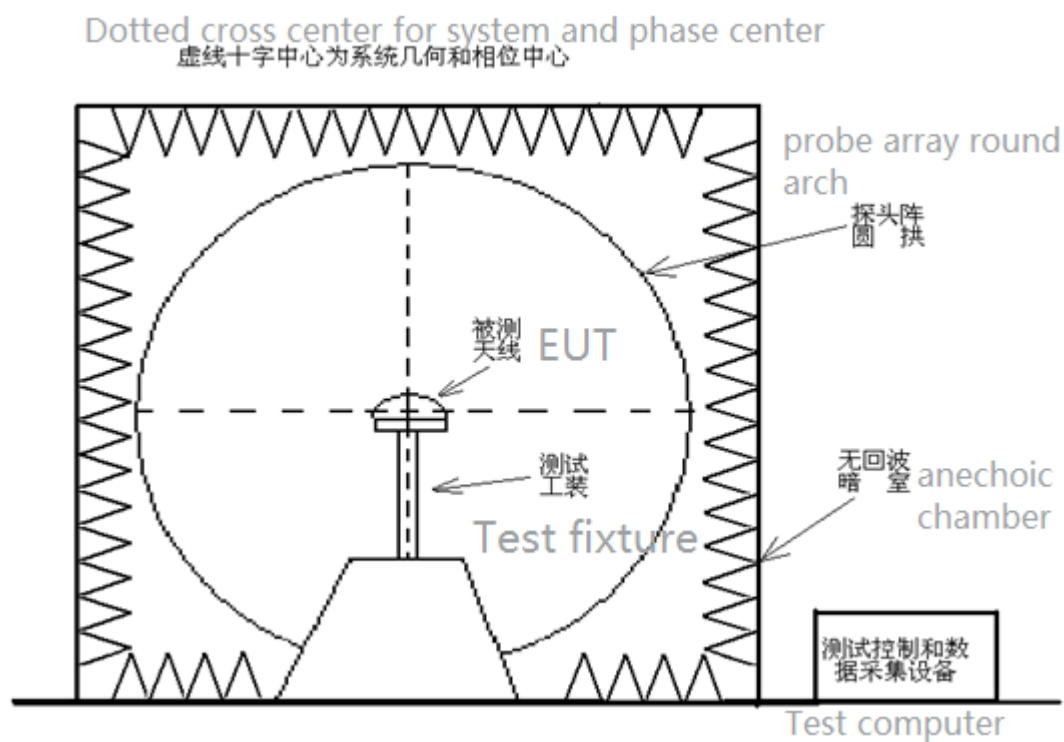
1) The antenna to be measured is erected on the test fixture, and the antenna phase center coincides with the center of the probe array ring by adjusting the antenna;

2) Connect the test cable, set the test frequency, start the test, during the test, the system supporting software should be able to automatically complete the acquisition, storage and calculation of the antenna amplitude and phase data to be measured.

d) Data processing:

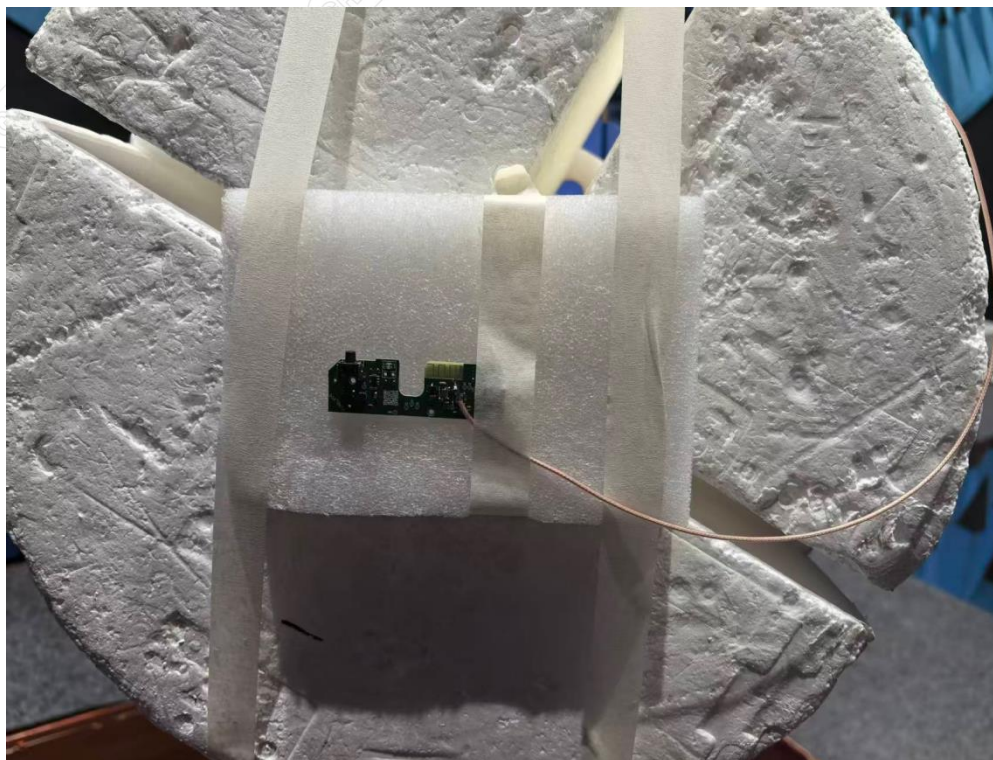
The Spherical near-field test system is used to test the antenna, and all the radiation information on the spherical surface of the antenna (including the polarization mode, gain, efficiency, pattern of the antenna, etc.) can be obtained through one test. Therefore, the antenna radiation indicators described in this standard can be obtained by a single test, the difference is that the data of different indicators are extracted differently.

6.3 CONFIGURATION OF SYSTEM UNDER TEST

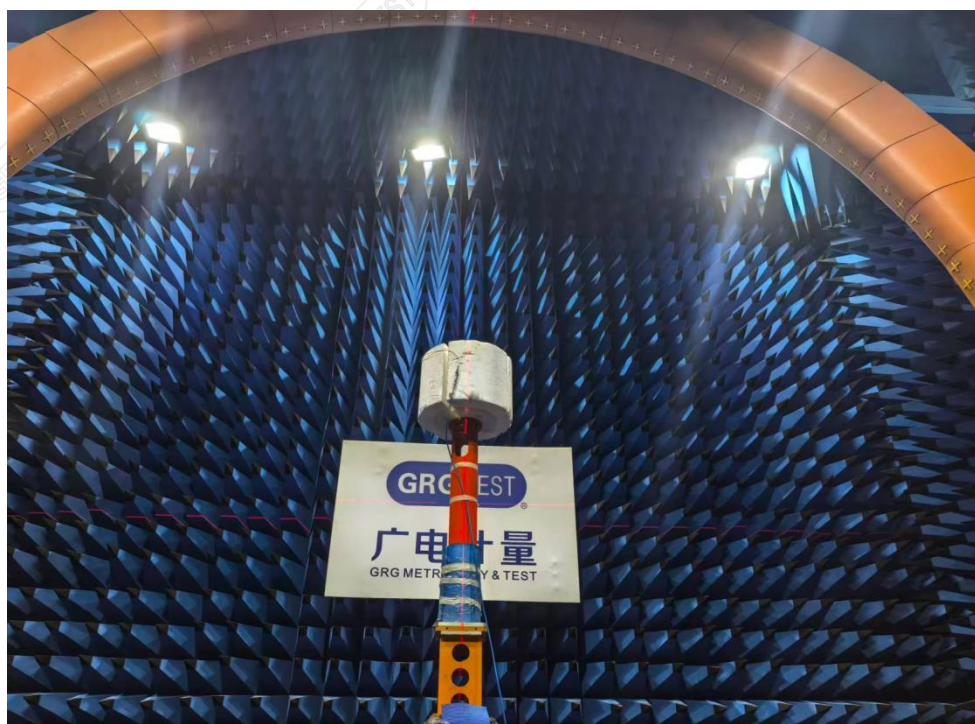


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6.4 TEST PHOTOS



Test photo1



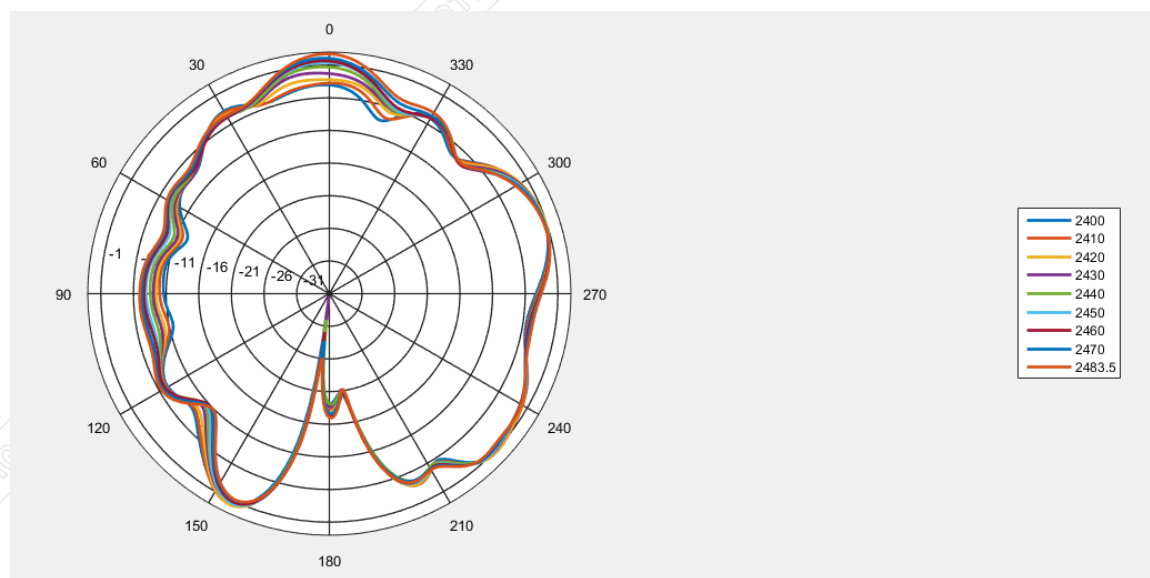
Test photo2

6.5 TEST RESULTS

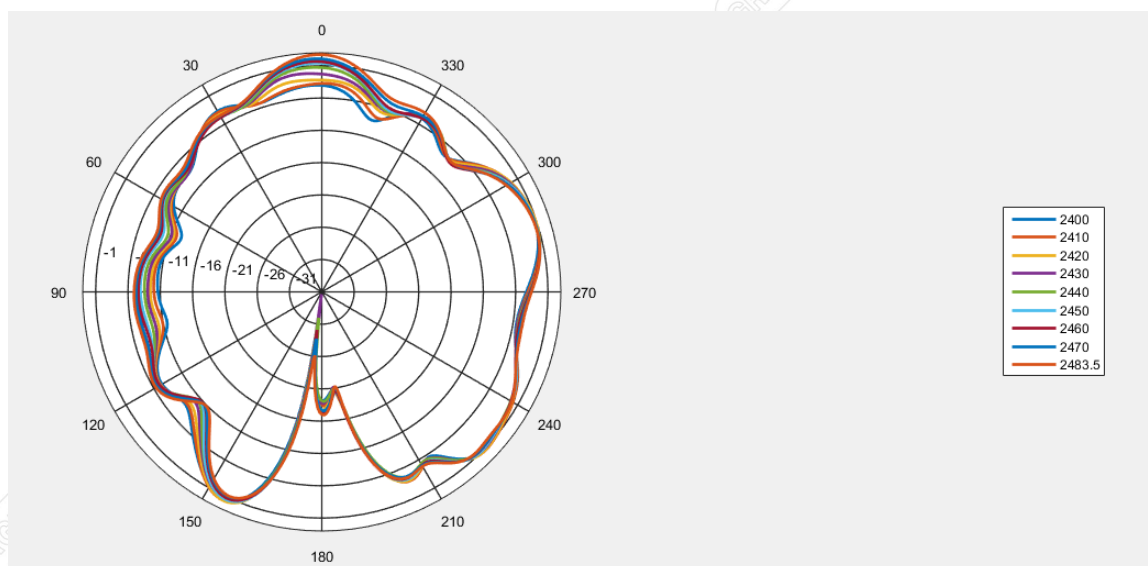
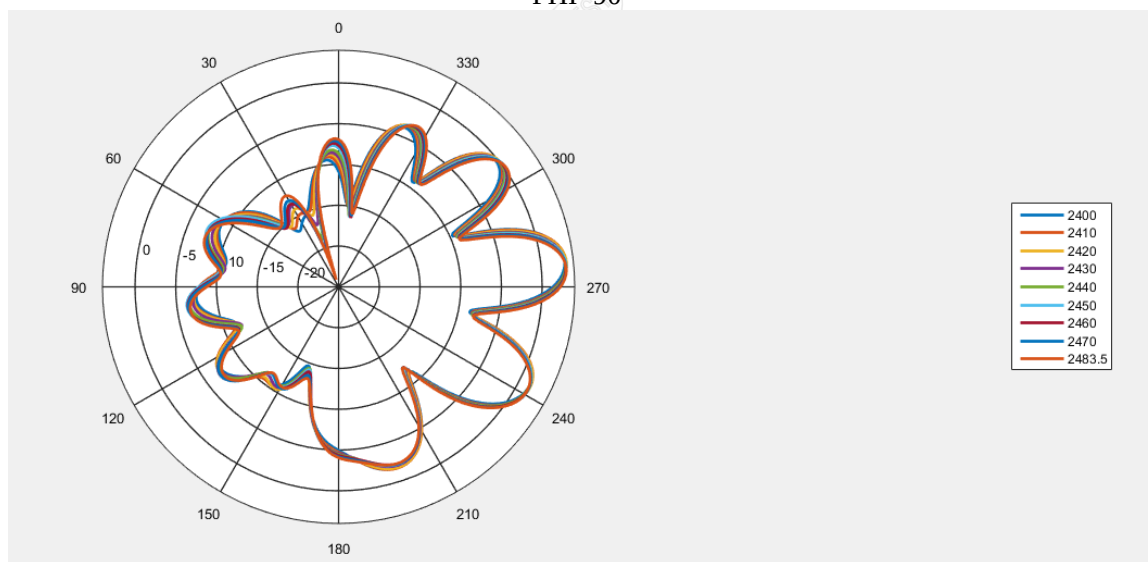
EUT Name	ski boot heaters battery	Model No.	PS-35R
Environmental Conditions	22.6°C/55%RH/100.7kPa	Test Scene	Free space
Power Supply	/	Tested By	Ma Lintao
Test Date	2026-2-10	Sample No.	E202602095828-0001

Test Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	4.48	41.07
2410	4.68	42.70
2420	4.69	43.06
2430	4.56	42.07
2440	4.56	42.16
2450	4.74	43.58
2460	4.72	42.92
2470	4.81	43.98
2483.5	4.80	44.55

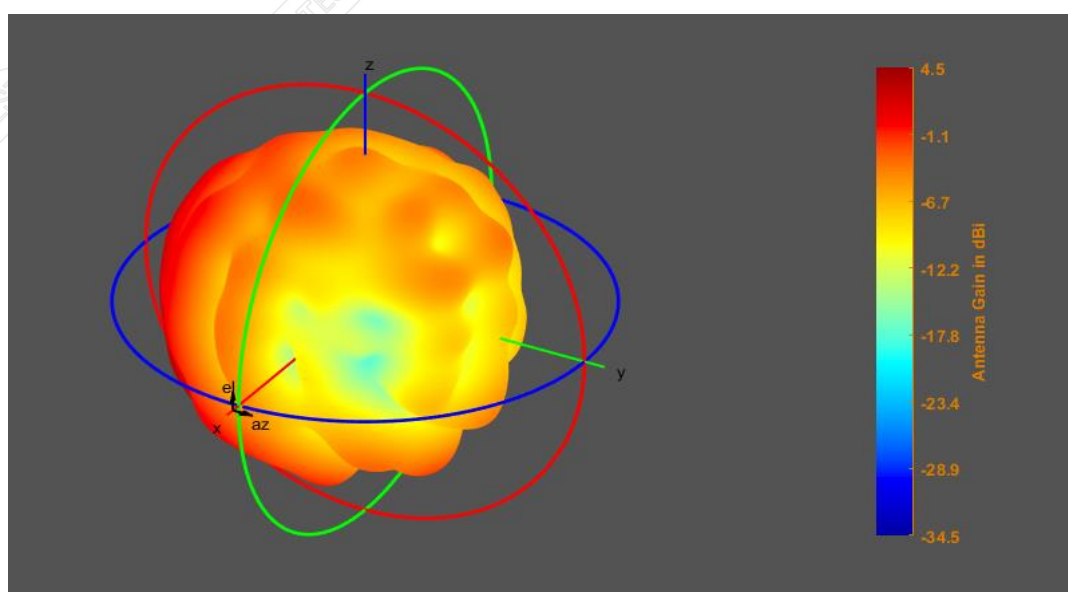
a) 2D Radiation patterns



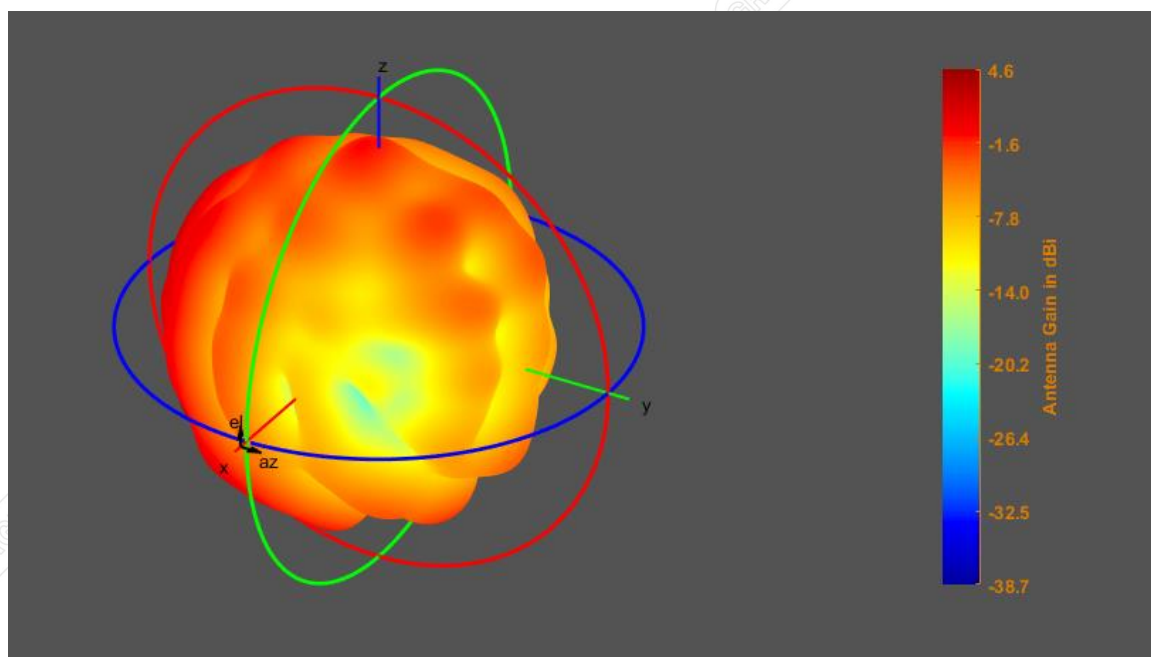
PHI=0°

 $\text{PHI}=90^\circ$  $\text{THETA}=90^\circ$

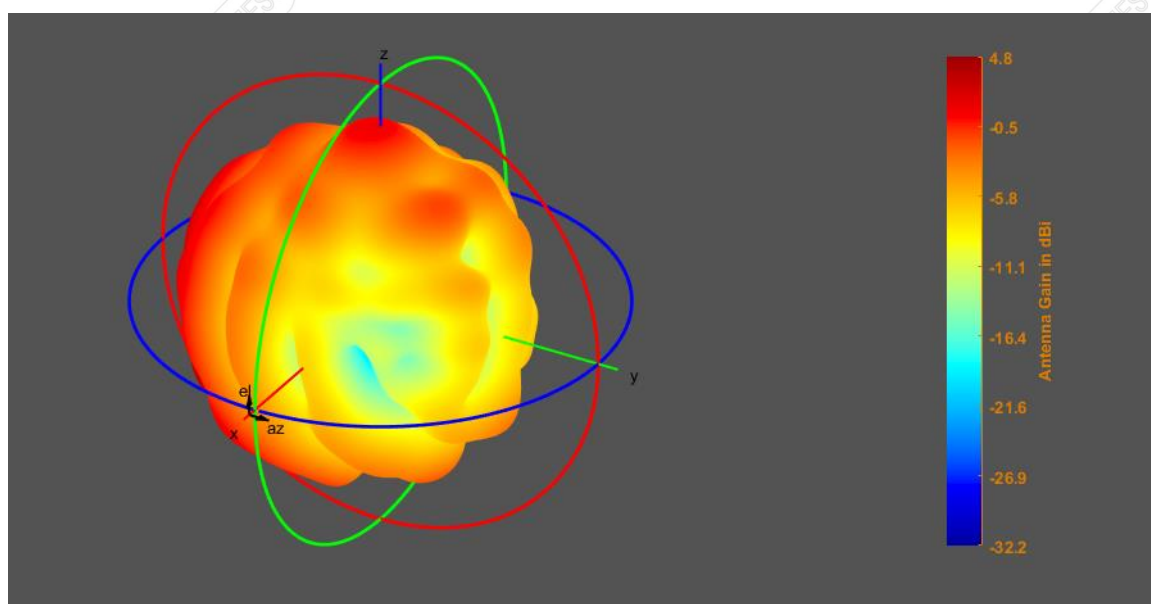
b) 3D Radiation patterns



2400MHz



2440MHz



2483.5MHz

7. PHOTOGRAPH OF THE EUT

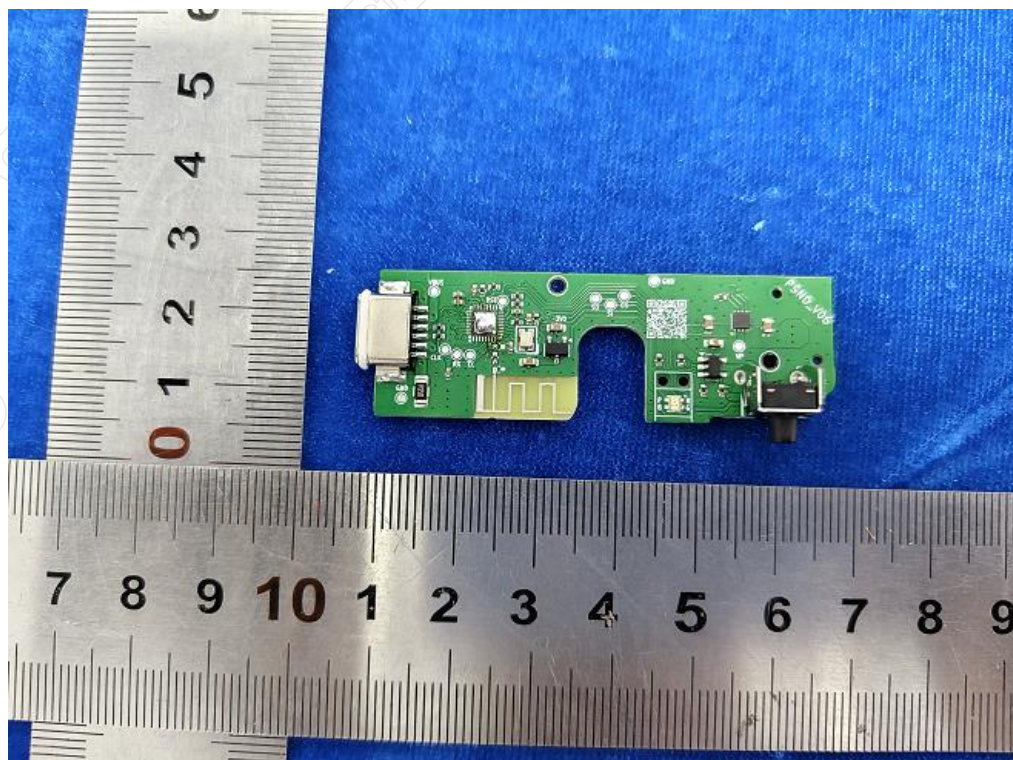


Photo1

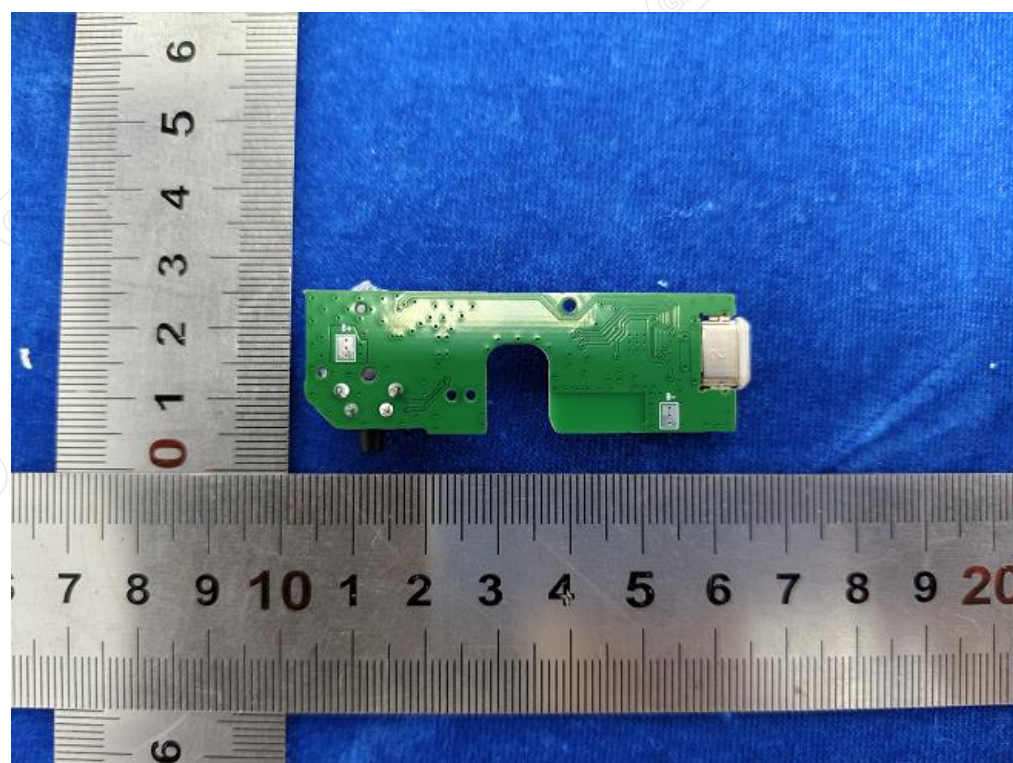


Photo2

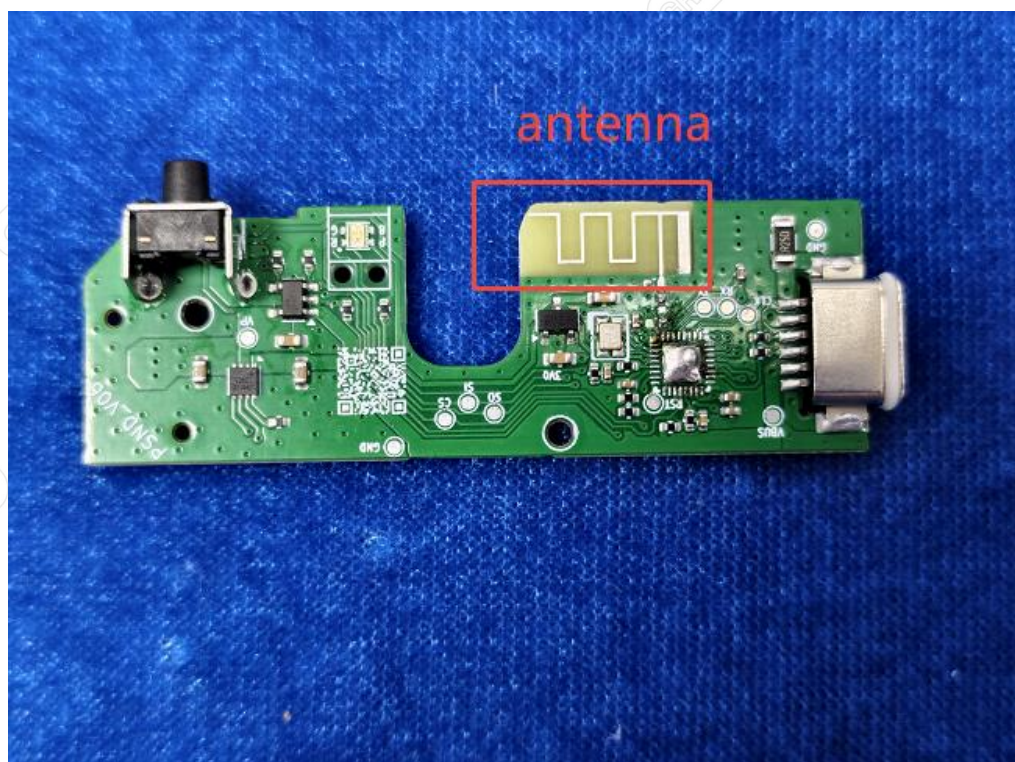


Photo3

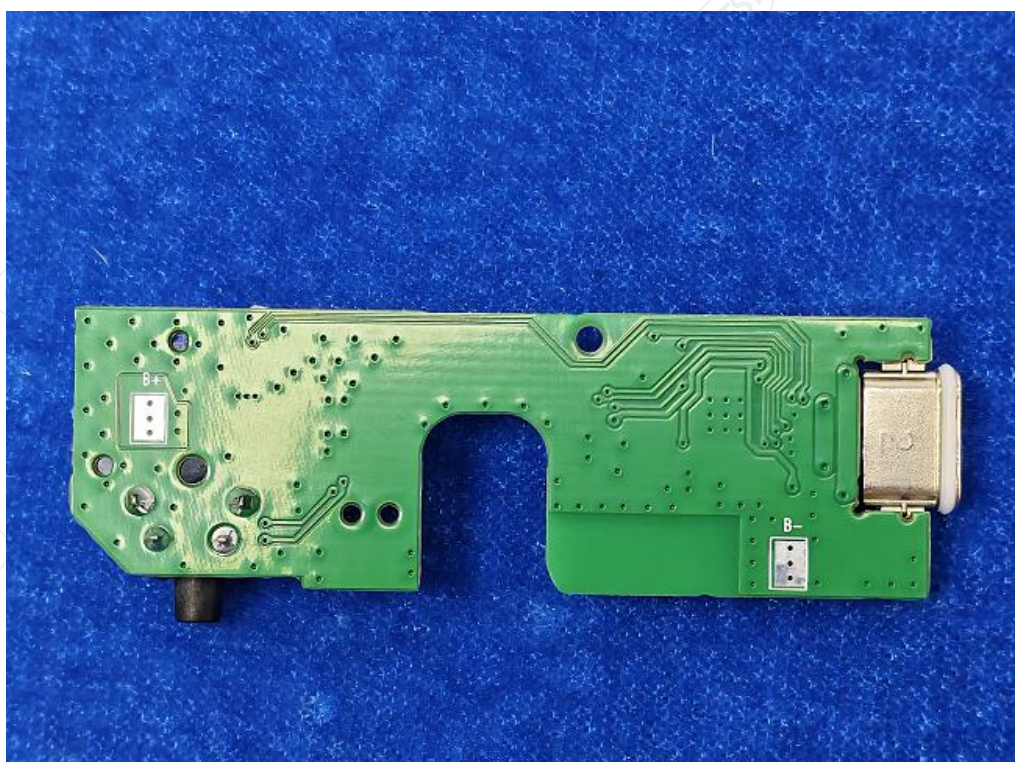
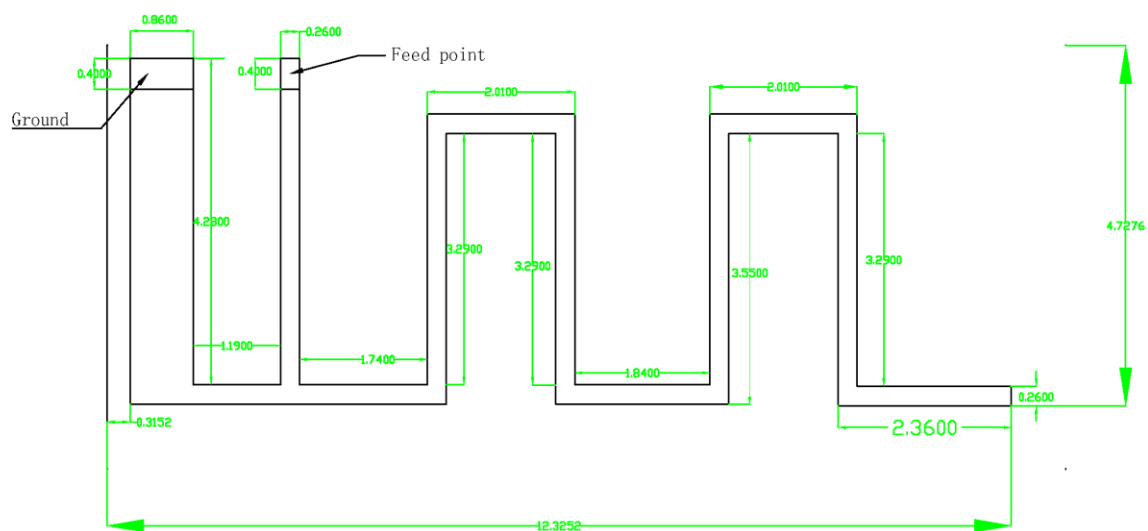


Photo4



Antenna size

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