

Test Report

Applicant:	Guangzhou ShiKun technology Co., LTD
Address:	No. 6, Liankun Road, Huangpu District, Guangzhou City, CVTE Third Industrial Park
Manufacturer:	/
Address:	/
Product Description:	WiFi&BT moudle
Brand Name:	N/A
Tested Model:	SKO.WB663U.16
Received Date:	Jan. 21, 2025
Tested Date:	Jan. 22, 2025
Issued Date:	Jan. 22, 2025
Test Standard:	ANSI/IEEE Std 149-2021
Report Number:	JCF250121031-001
Test Result:	--

Prepared By: *Zuping He*

Date: Jan. 22, 2025

Reviewed By: *Roger Li*

Date: Jan. 22, 2025

Approved By: *Talent Zhang*

Date: Jan. 22, 2025

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Statement

1. Test report is invalid if altered.
2. The report is invalid without the signature of the approver.
3. The test results are only valid for the tested samples.
4. Partial copy of this report is invalid without the consent of the testing unit.
5. The report is invalid without the "special seal for the report" or the official seal of the testing unit.
6. Judgement of the result in "N/A" means "not applicable", "/" means "Not Test", "P" means "Test Pass", "F" means "Test Fail", "--" means "Do not decide"
7. The company name and address, sample and product information in the report are provided by the applicant, and the applicant shall be responsible for the authenticity of the information.
8. Any objection to this report shall be submitted to the testing unit within 15 days from the date of receipt of the report.

Issue Laboratory By: Guangzhou Jingce testing Technology Co., LTD
Address: No. 6, Liankun Road, Huangpu District, Guangzhou, Guangdong, China

Revision History

Version	Issue Date	Revisions
Rev. 01	Jan. 22, 2025	Initial Issue

Table of Contents

1 Test Laboratory 5

2 Product Information 5

3 Summary of Test Results 5

4 General Test Configurations 6

Annex A Test Results 7

Annex B Radiation Pattern 12

Annex C Test Setup Photo 42

1 Test Laboratory

Name	Guangzhou Jingce testing Technology Co., LTD
Address	No. 6, Liankun Road, Huangpu District, Guangzhou, Guangdong, China

2 Product Information

2.1 Applicant Information

Applicant	Guangzhou ShiKun technology Co., LTD
Address	No. 6, Liankun Road, Huangpu District, Guangzhou City, CVTE Third Industrial Park
Contact Person	Soho
Tel. No.	13135332353

2.2 Manufacturer Information

Manufacturer	/
Address	/

2.3 General Description for Equipment under Test (EUT)

EUT Name	WiFi&BT moudle
Model	SKO.WB663U.16
Antenna Type	Onboard Antenna

2.4 Technical Information

Frequency Range	2400MHz~2500MHz, 5150MHz ~ 5850MHz
Test Frequency	2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz, 5150MHz, 5250MHz, 5350MHz, 5450MHz, 5550MHz, 5650MHz, 5750MHz, 5850MHz

3 Summary of Test Results

3.1 Test Standards

Reference standard	ANSI/IEEE Std 149-2021
--------------------	------------------------

3.2 Test Verdict

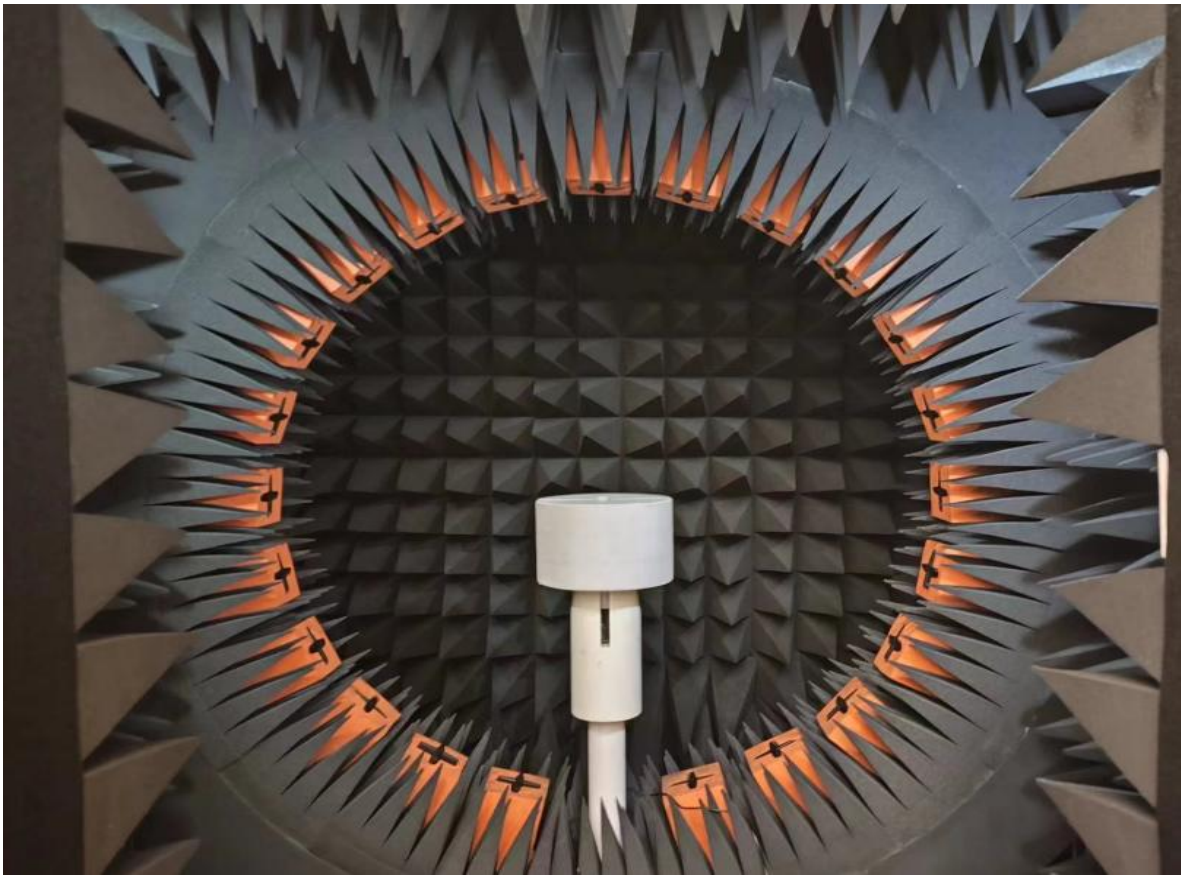
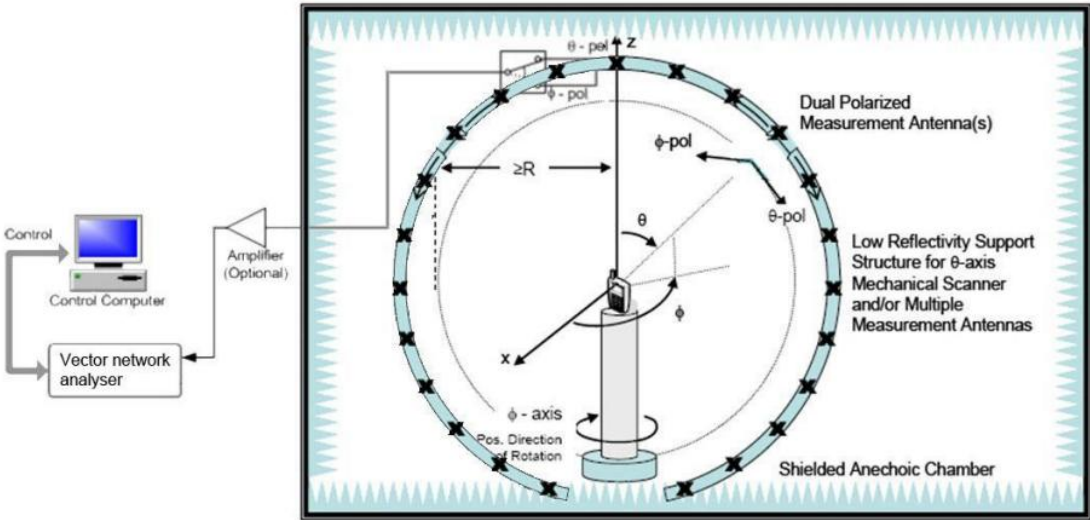
Report Section	Description	Remark
ANNEX A.1	Gain and Efficiency	--
ANNEX A.2	VSWR	--
ANNEX A.3	Return Loss	--
ANNEX B	Radiation Pattern	--

4 General Test Configurations

4.1 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Multi-probe Measurement System	XINGHANG WULIAN	ATS260	YQ00207118	2024-12-24	2027-12-23
Network Analyzer	PROSUND	SP809A	YQ00200750	2024-12-04	2025-12-03

4.2 Test Setup



Annex A Test Results

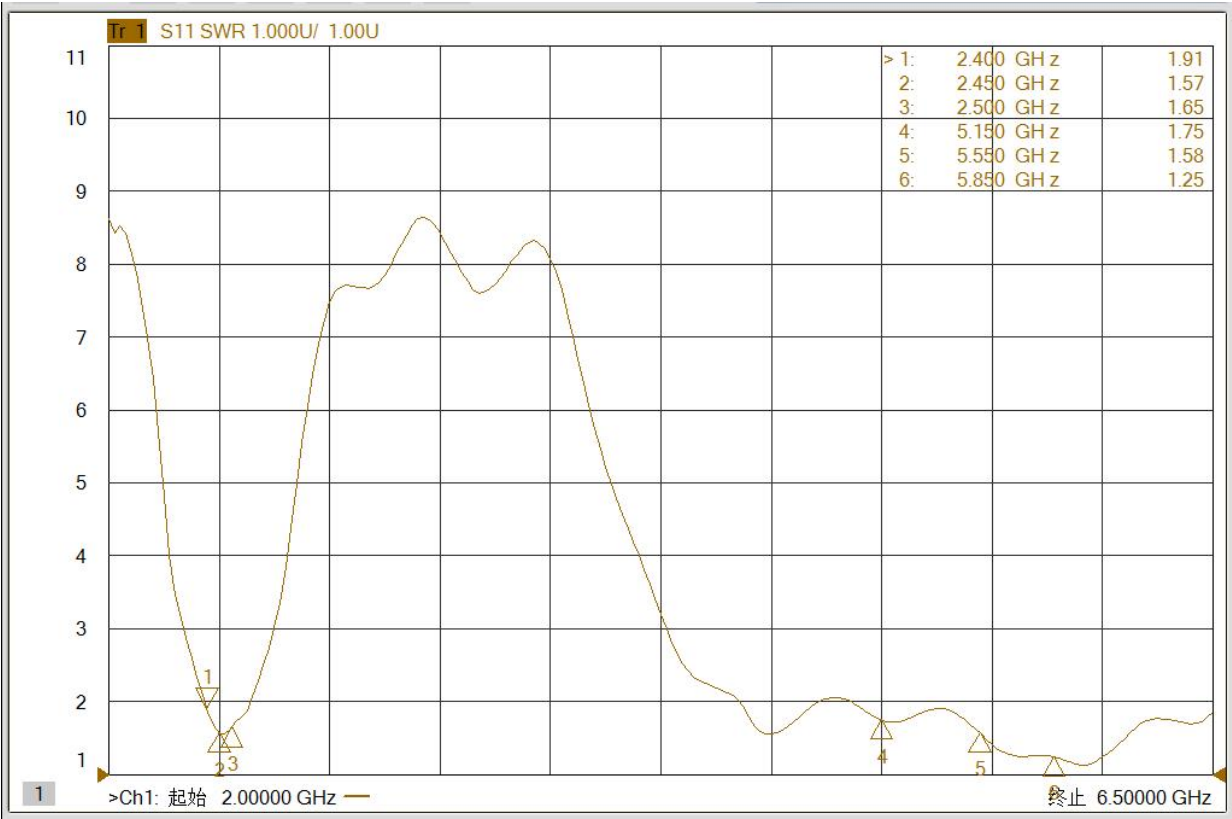
A. 1 Gain and Efficiency

Antenna	Frequency(MHz)	Gain(dBi)	Efficiency(%)
Ant. 1	2400	1.72	42.46
Ant. 1	2410	2.02	43.95
Ant. 1	2420	2.24	46.34
Ant. 1	2430	2.46	47.75
Ant. 1	2440	2.67	50.12
Ant. 1	2450	2.61	49.32
Ant. 1	2460	2.69	50.70
Ant. 1	2470	2.56	49.32
Ant. 1	2480	2.75	52.72
Ant. 1	2490	2.33	48.98
Ant. 1	2500	2.19	49.43
Ant. 1	5150	3.70	56.36
Ant. 1	5250	3.57	56.62
Ant. 1	5350	3.73	58.75
Ant. 1	5450	3.07	53.70
Ant. 1	5550	3.37	57.81
Ant. 1	5650	3.08	60.67
Ant. 1	5750	3.65	65.46
Ant. 1	5850	3.66	62.37
Ant. 2	2400	1.82	45.81
Ant. 2	2410	2.04	46.77
Ant. 2	2420	2.31	47.64
Ant. 2	2430	2.44	48.75
Ant. 2	2440	2.63	49.77
Ant. 2	2450	2.55	49.43
Ant. 2	2460	2.67	50.12
Ant. 2	2470	2.52	48.31
Ant. 2	2480	2.64	50.12
Ant. 2	2490	2.48	47.64
Ant. 2	2500	2.26	45.92
Ant. 2	5150	4.66	75.68
Ant. 2	5250	4.53	71.45
Ant. 2	5350	4.60	75.34
Ant. 2	5450	4.77	71.78
Ant. 2	5550	5.34	73.11
Ant. 2	5650	5.28	69.66

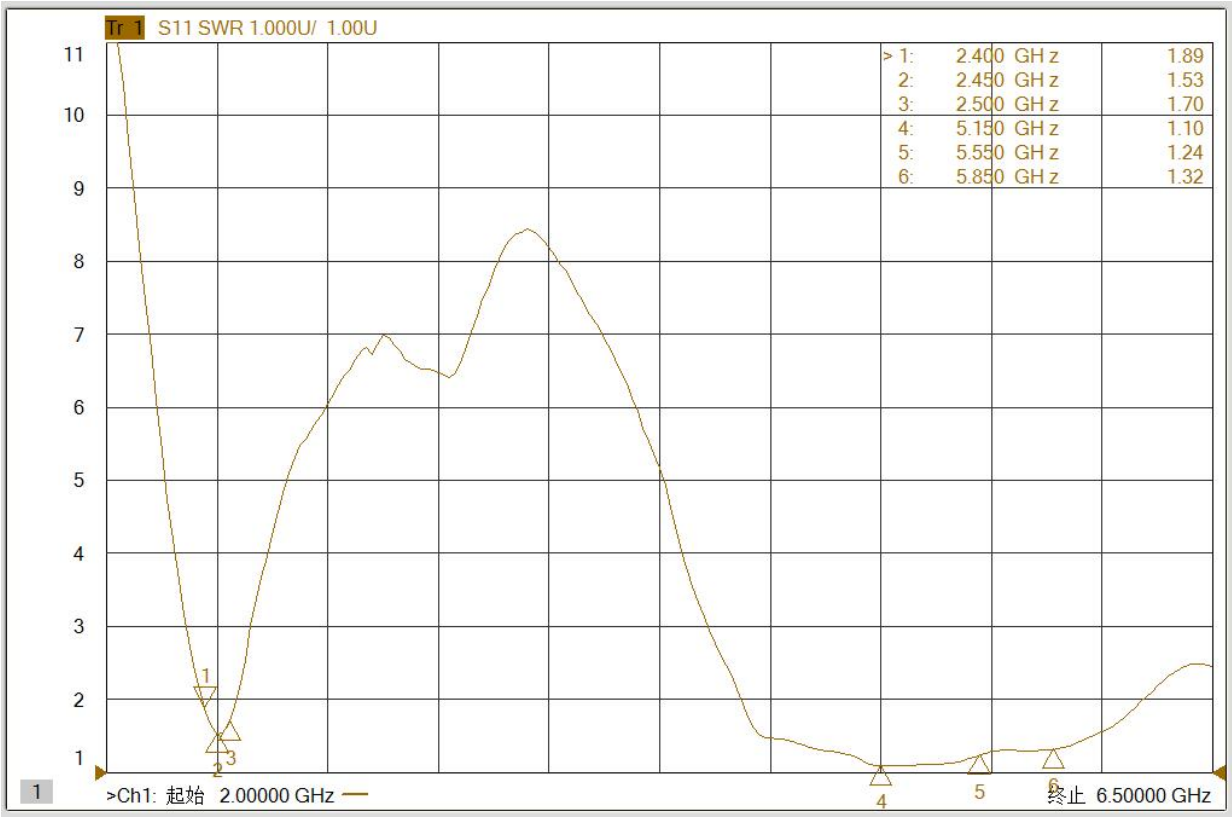
Ant. 2	5750	5.35	72.11
Ant. 2	5850	5.18	69.50
Ant. 3	2400	2.70	61.38
Ant. 3	2410	2.77	62.23
Ant. 3	2420	2.40	60.39
Ant. 3	2430	2.40	62.37
Ant. 3	2440	1.97	59.57
Ant. 3	2450	1.93	59.02
Ant. 3	2460	1.85	58.48
Ant. 3	2470	1.80	58.34
Ant. 3	2480	1.78	58.48
Ant. 3	2490	1.40	54.83
Ant. 3	2500	1.60	56.62

A. 2 VSWR

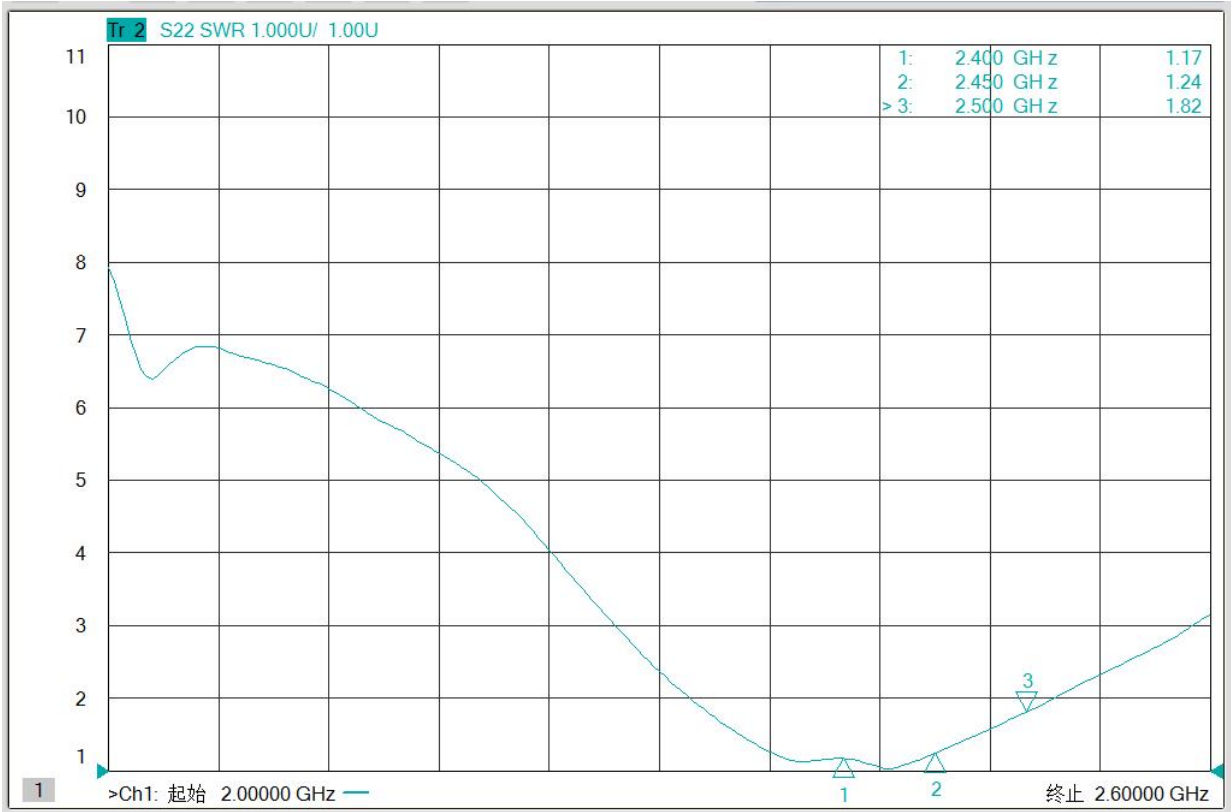
Ant. 1



Ant. 2

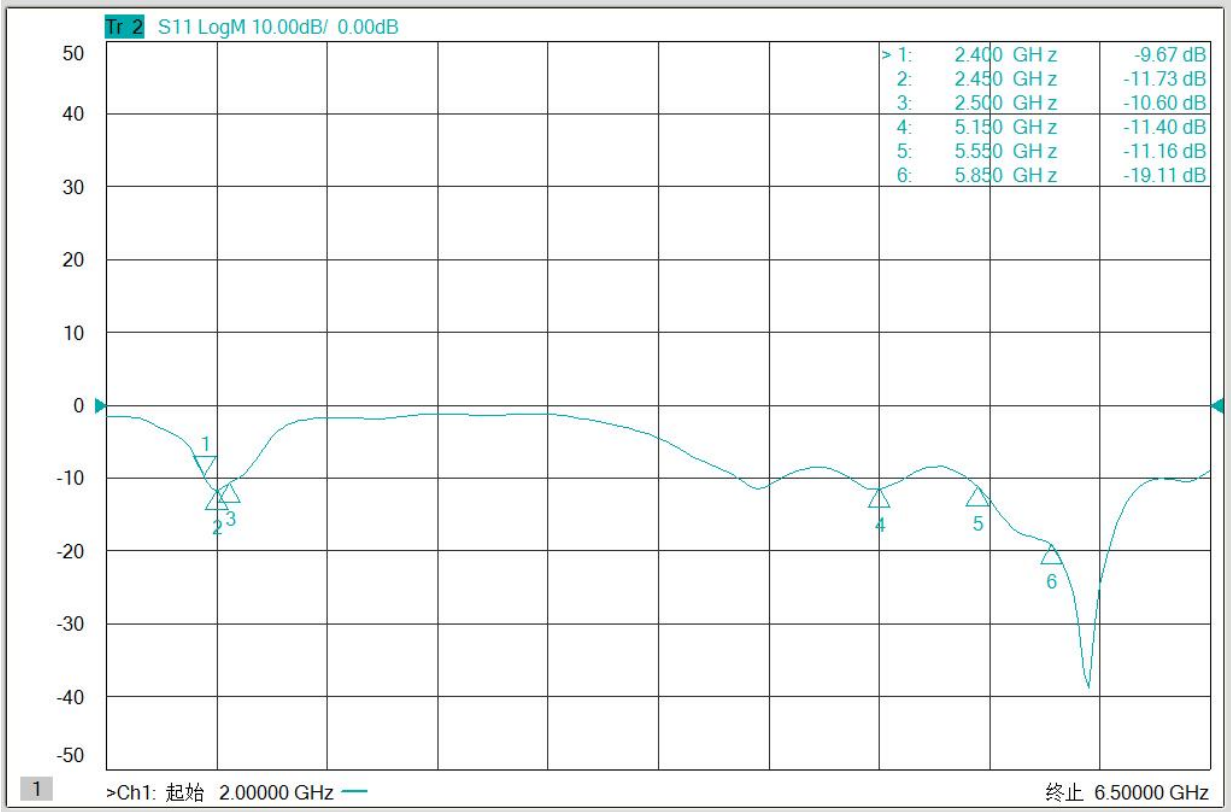


Ant. 3

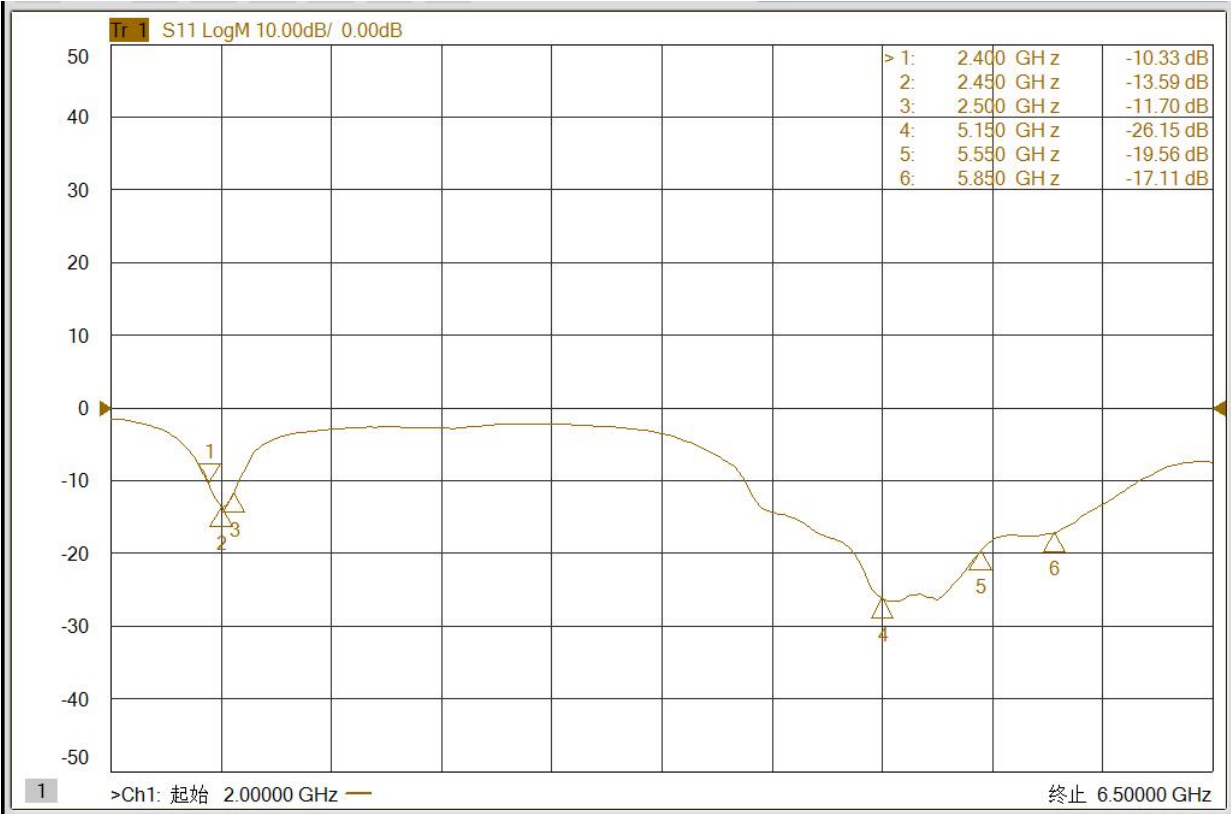


A. 3 Return Loss

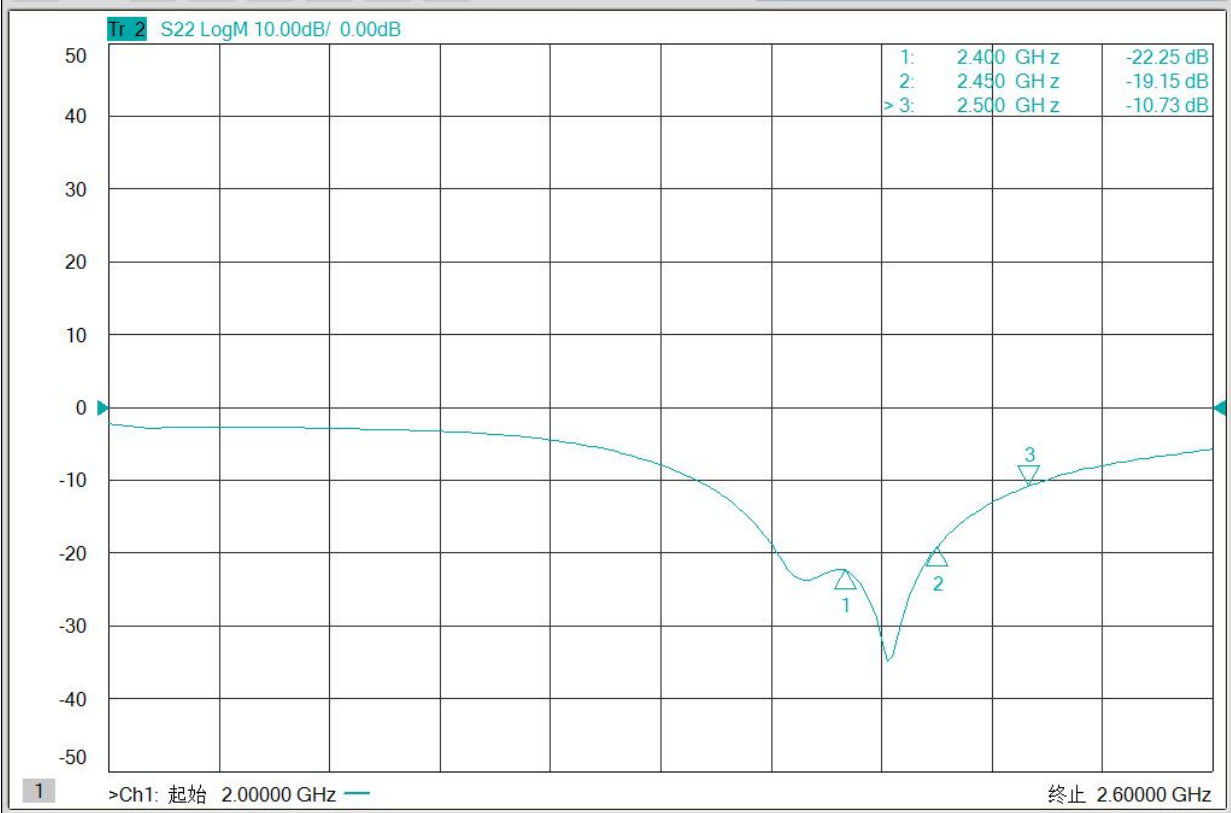
Ant. 1



Ant. 2

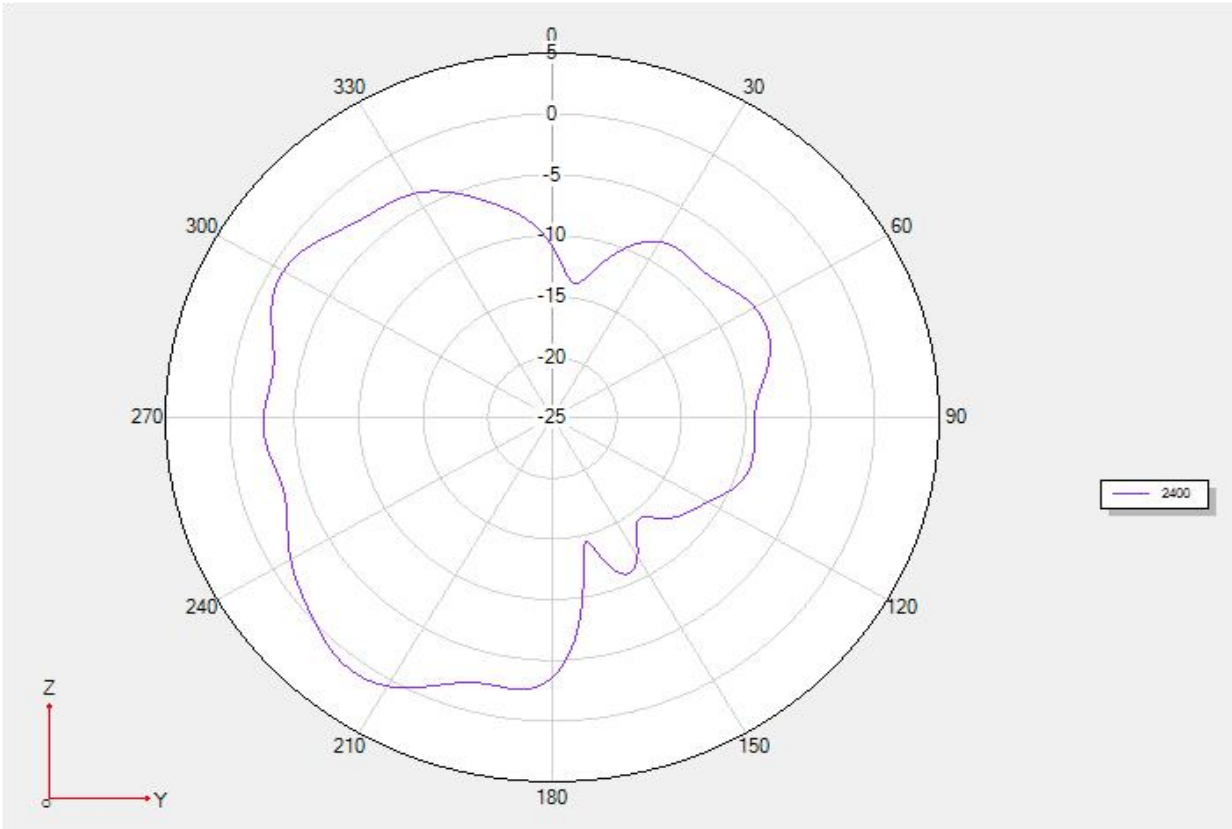
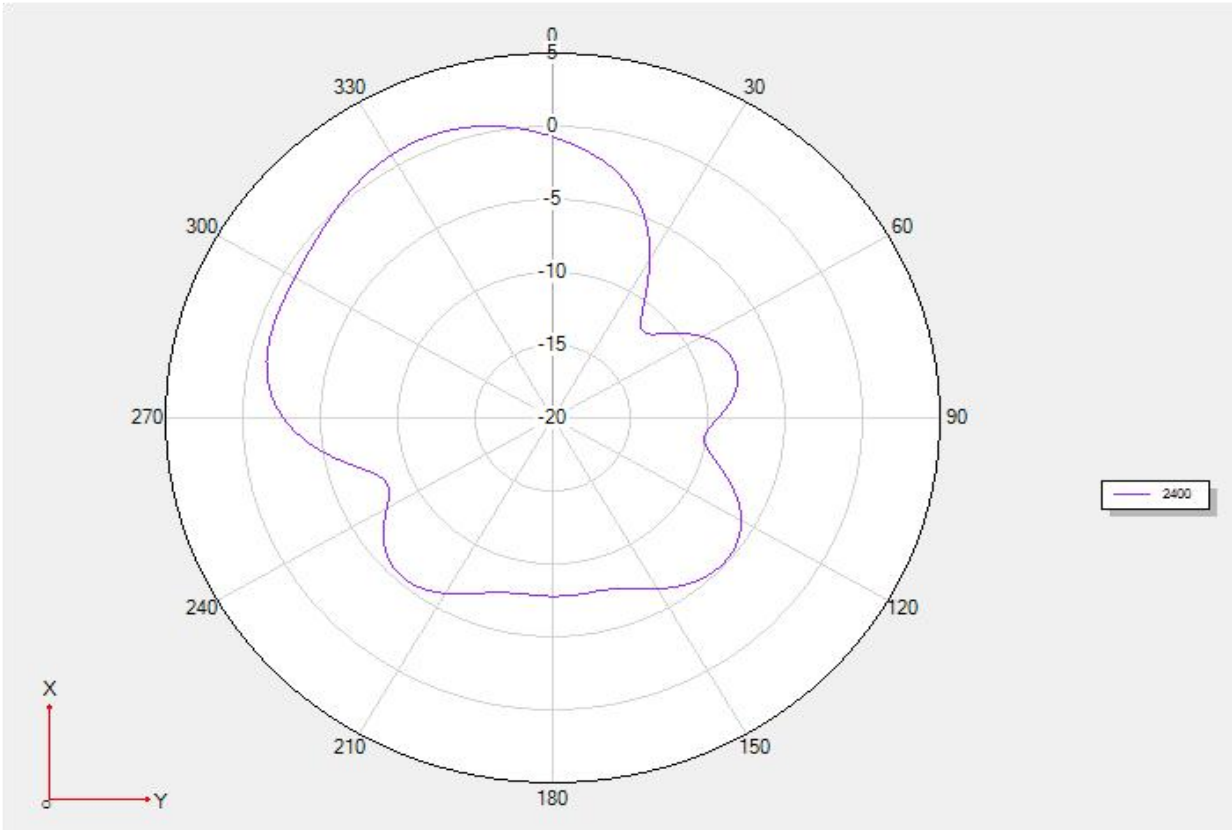


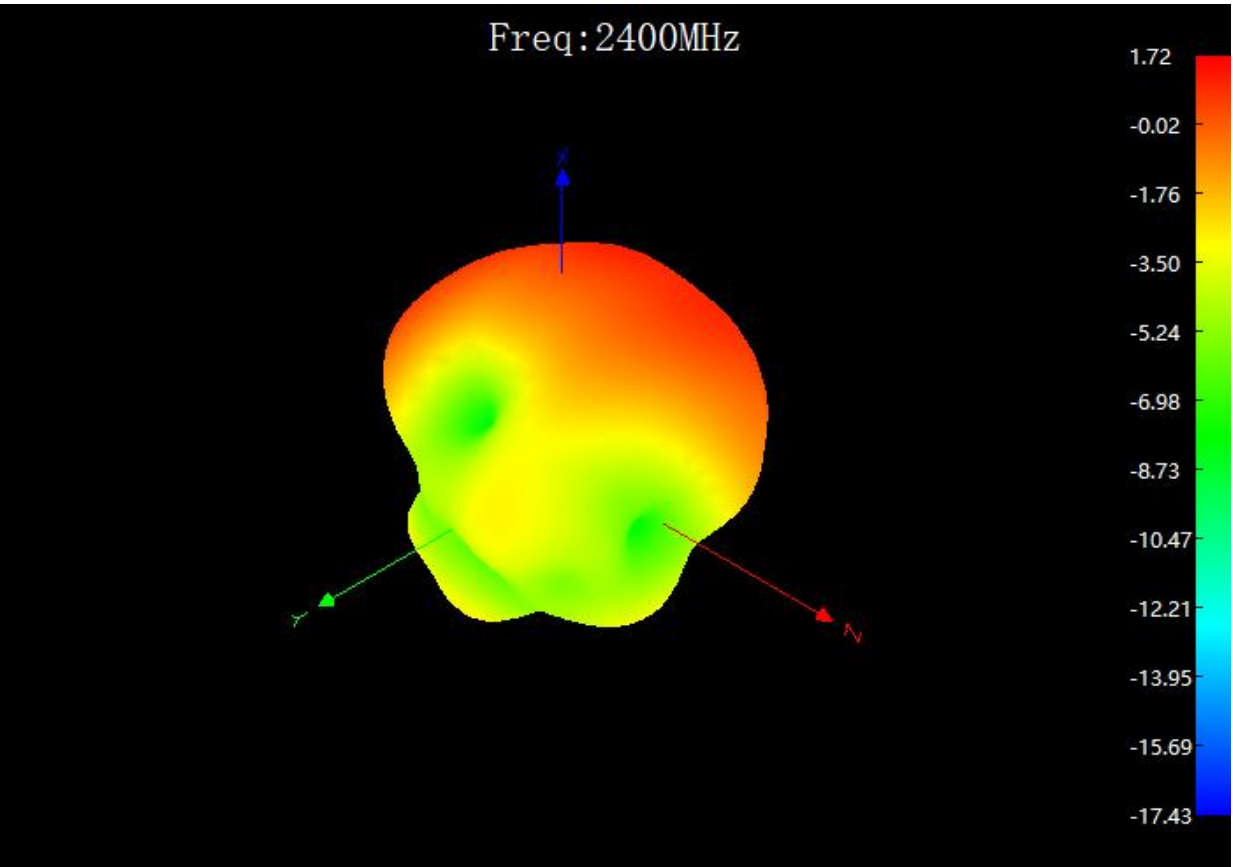
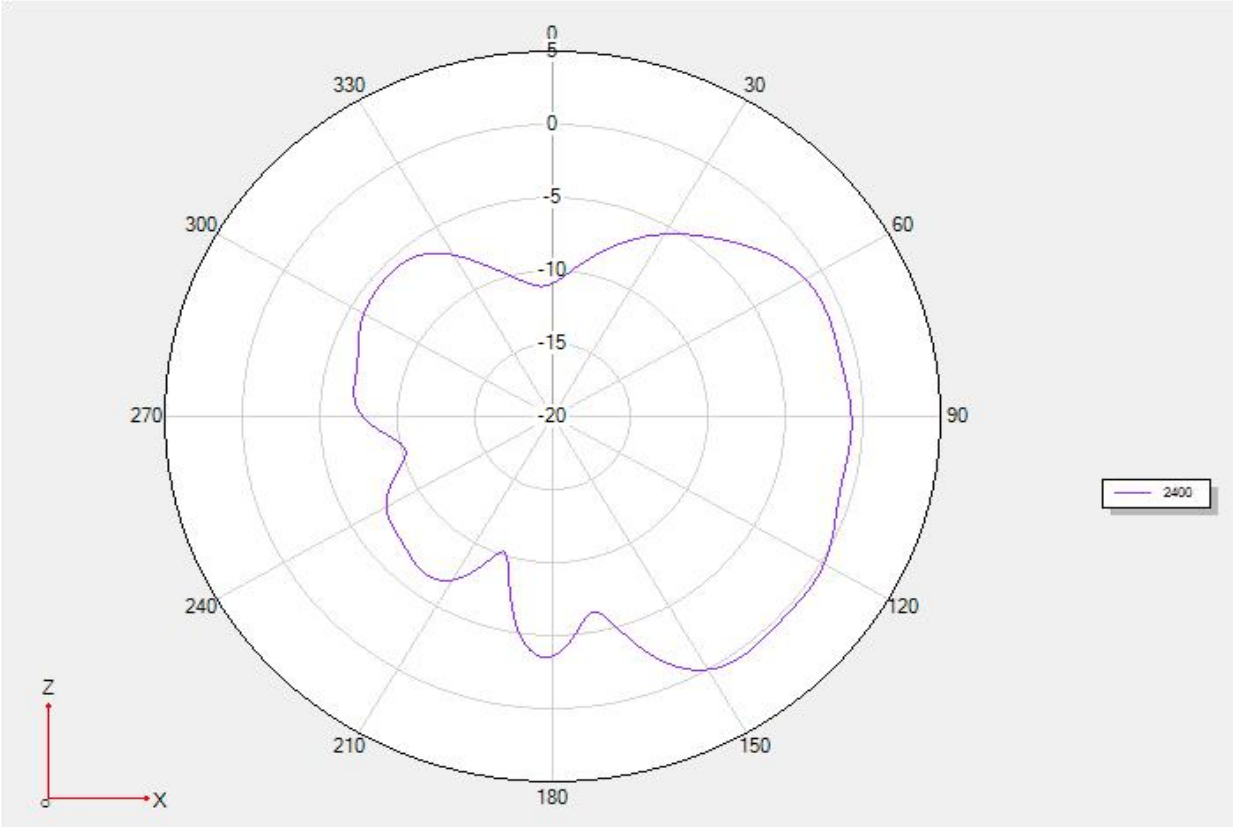
Ant. 3



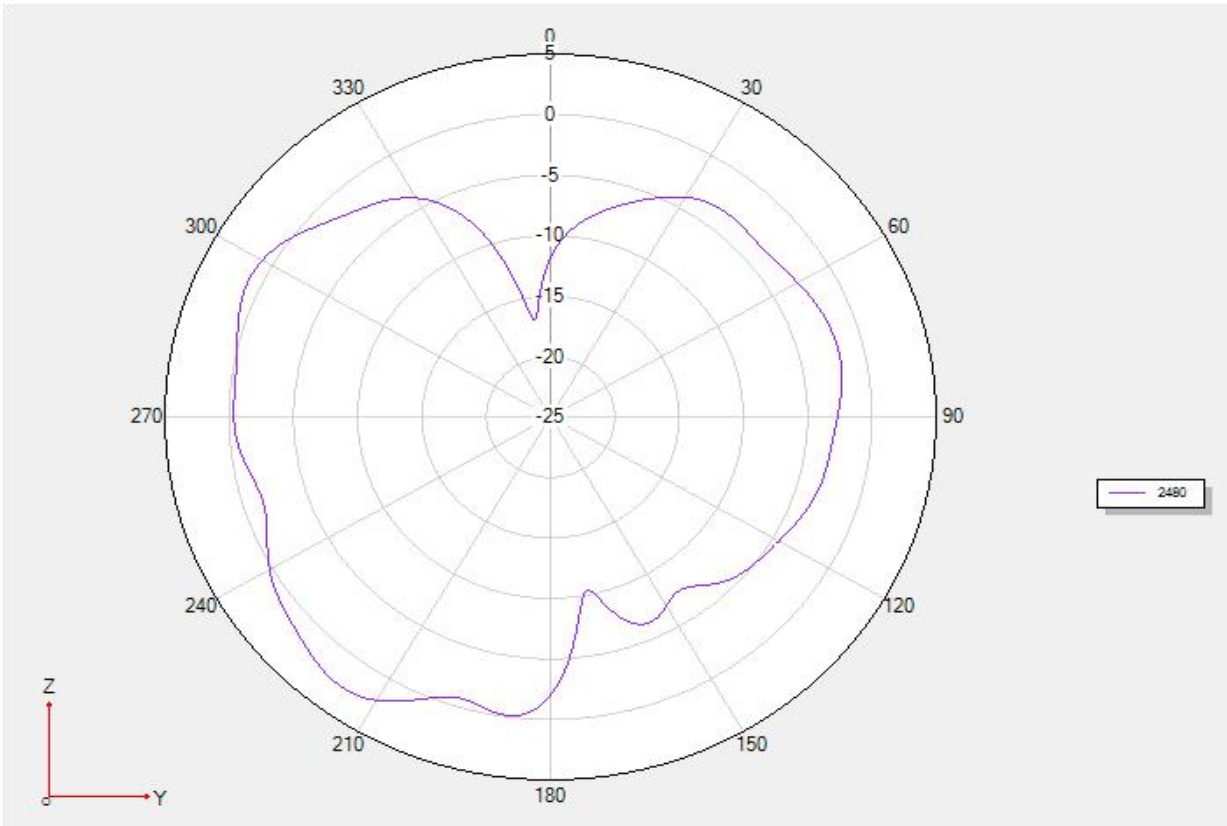
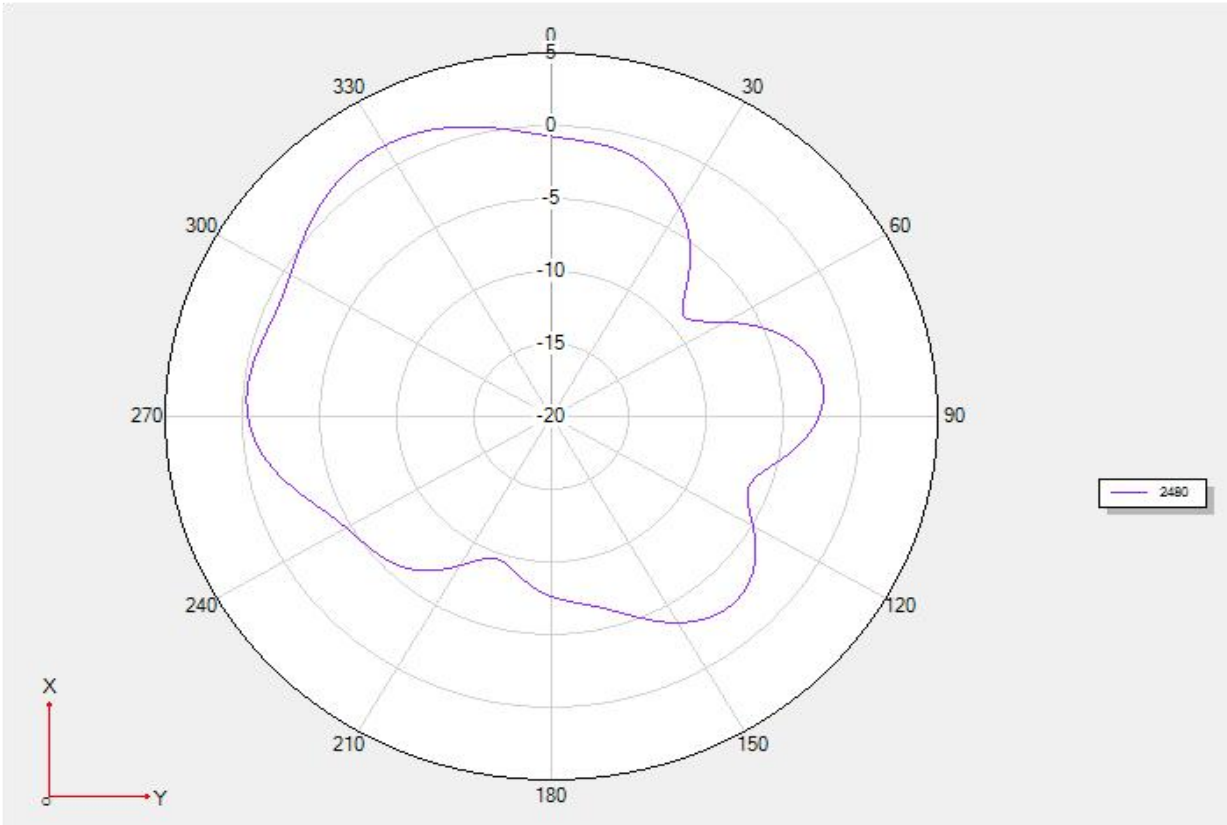
Annex B Radiation Pattern

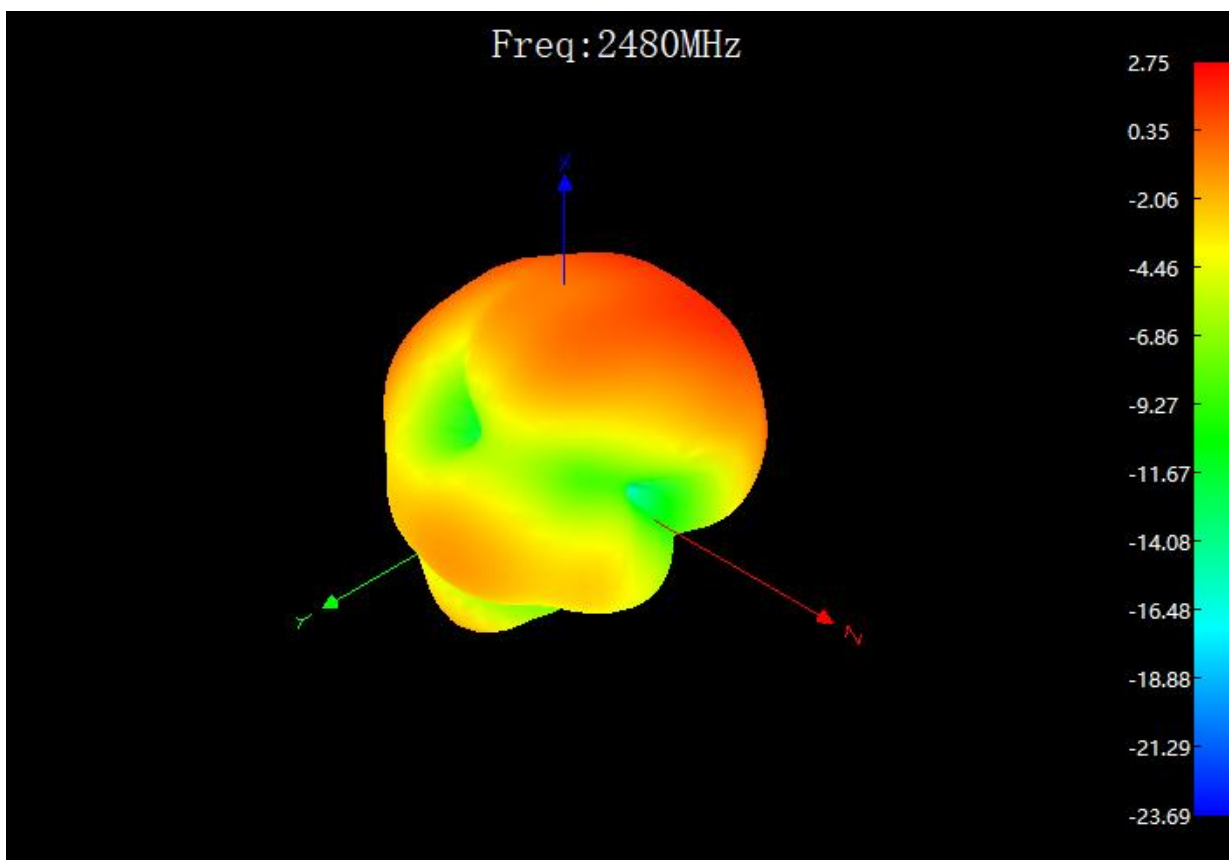
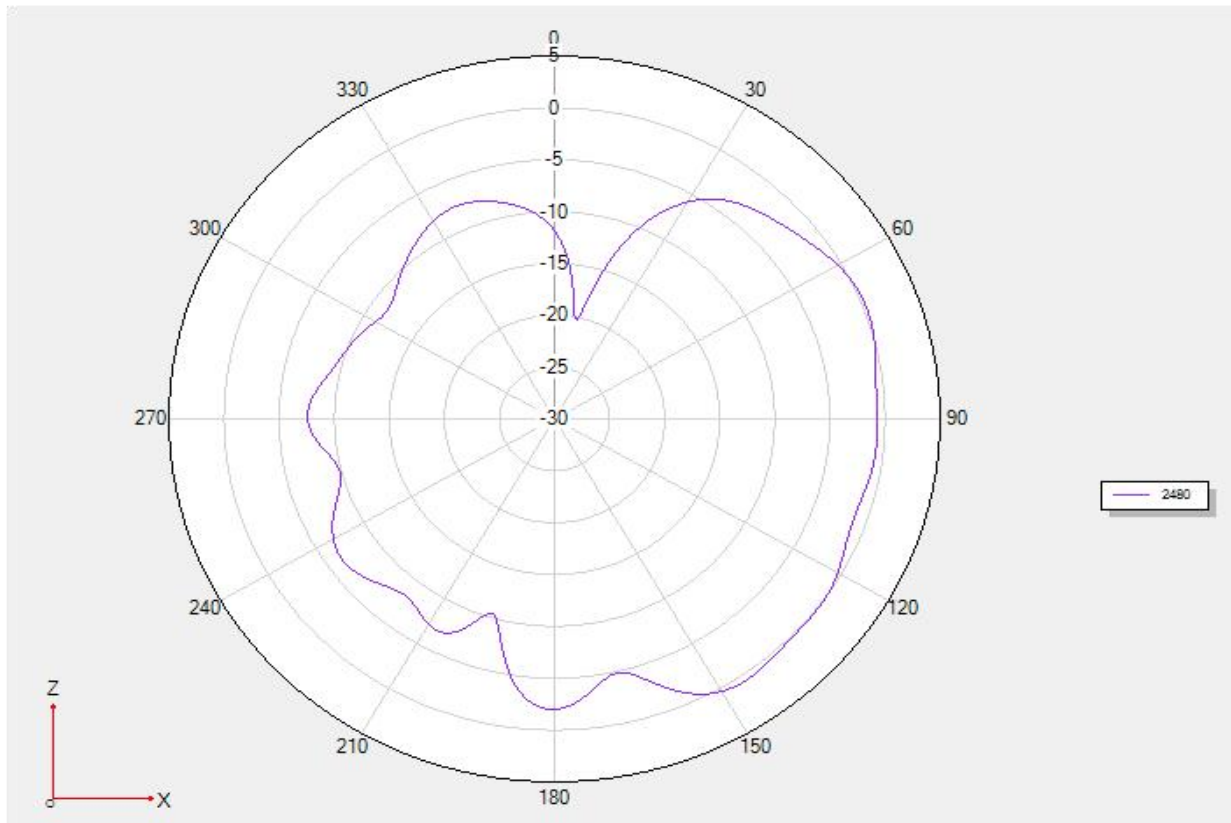
Ant. 1
2400.00MHz



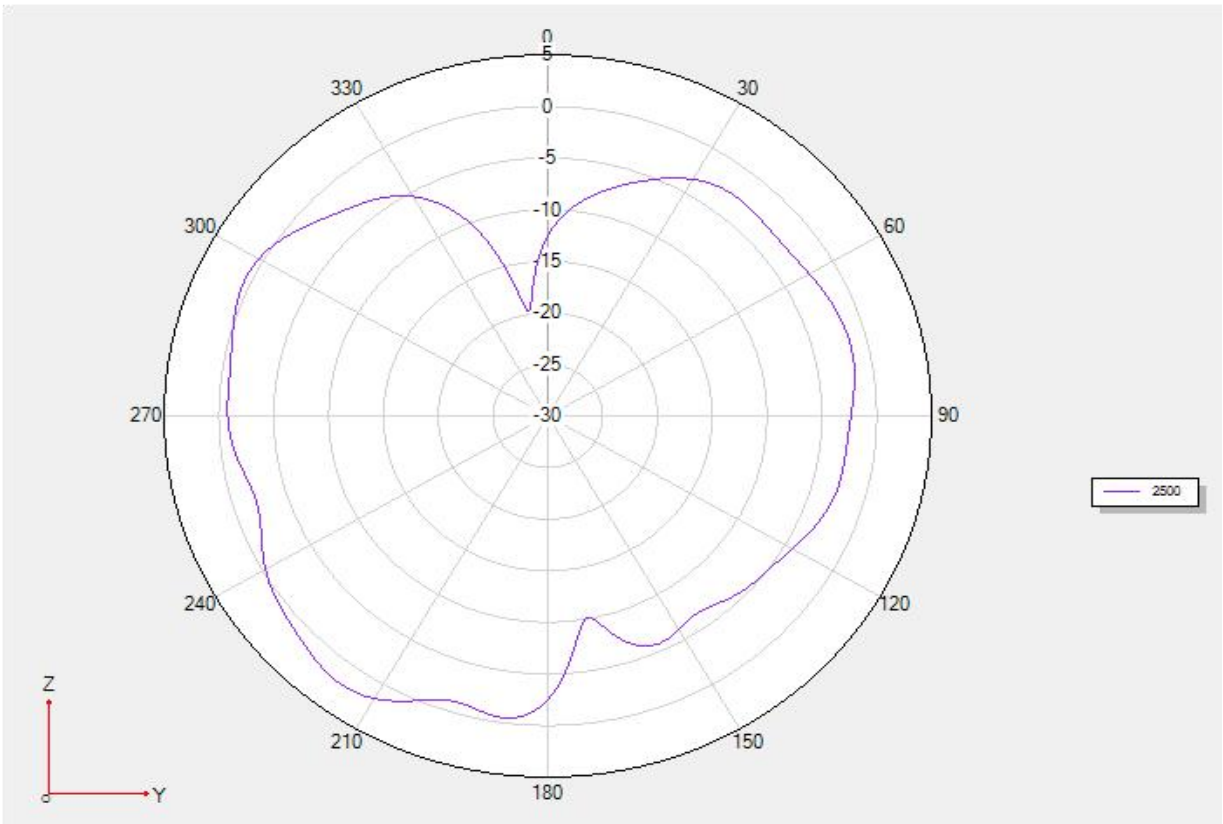
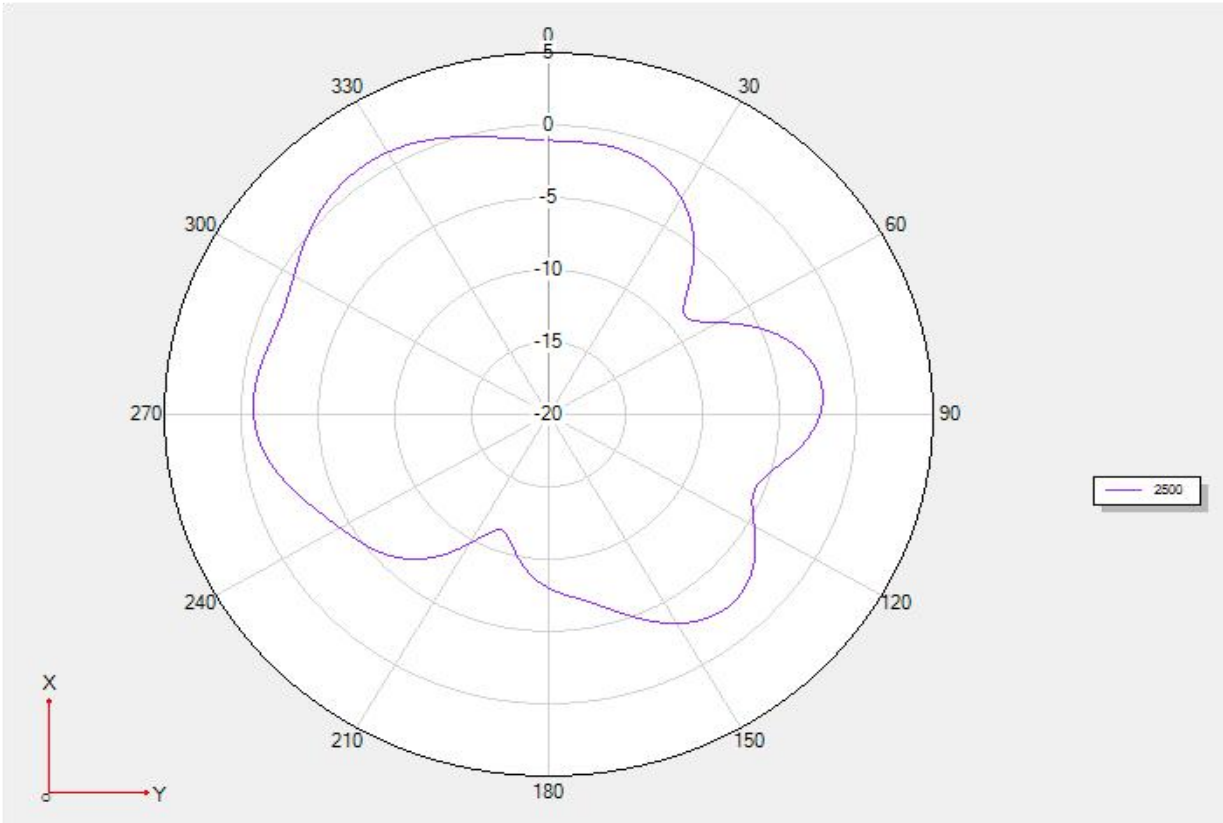


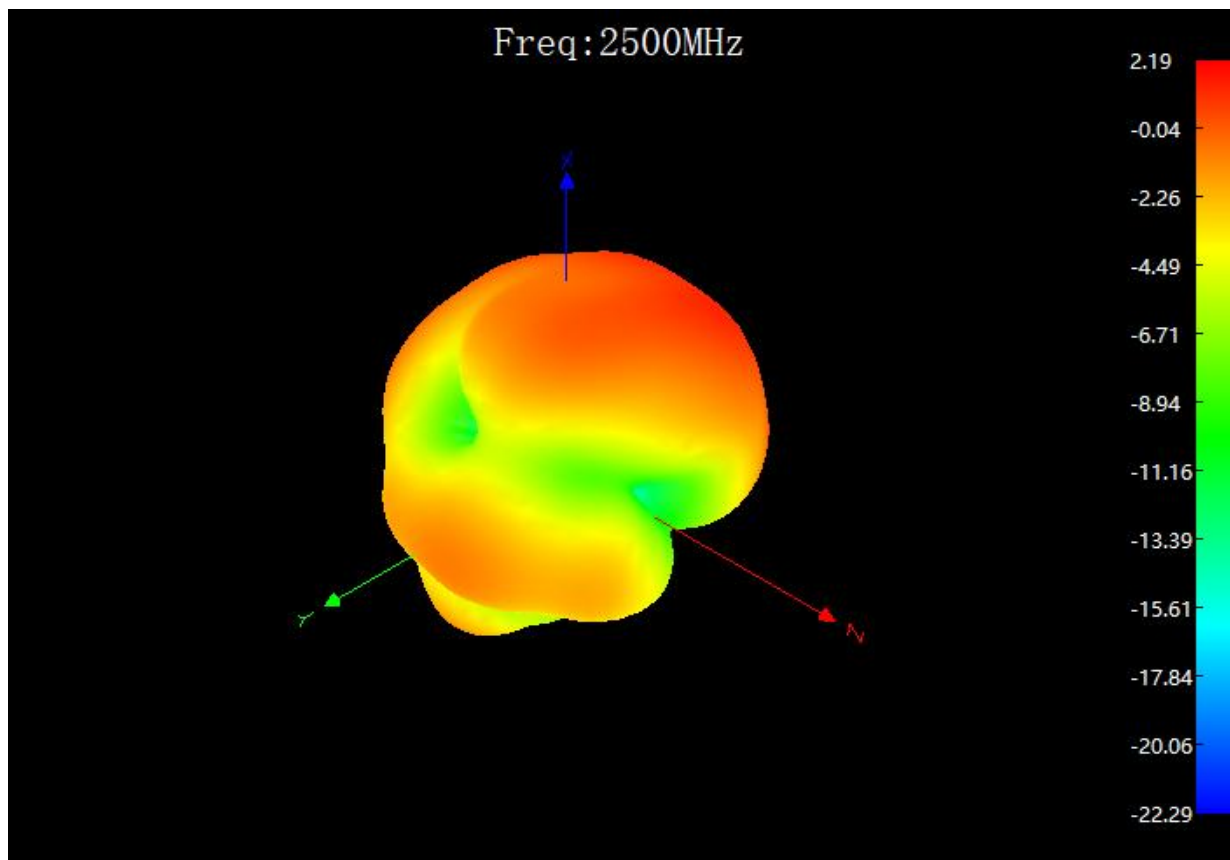
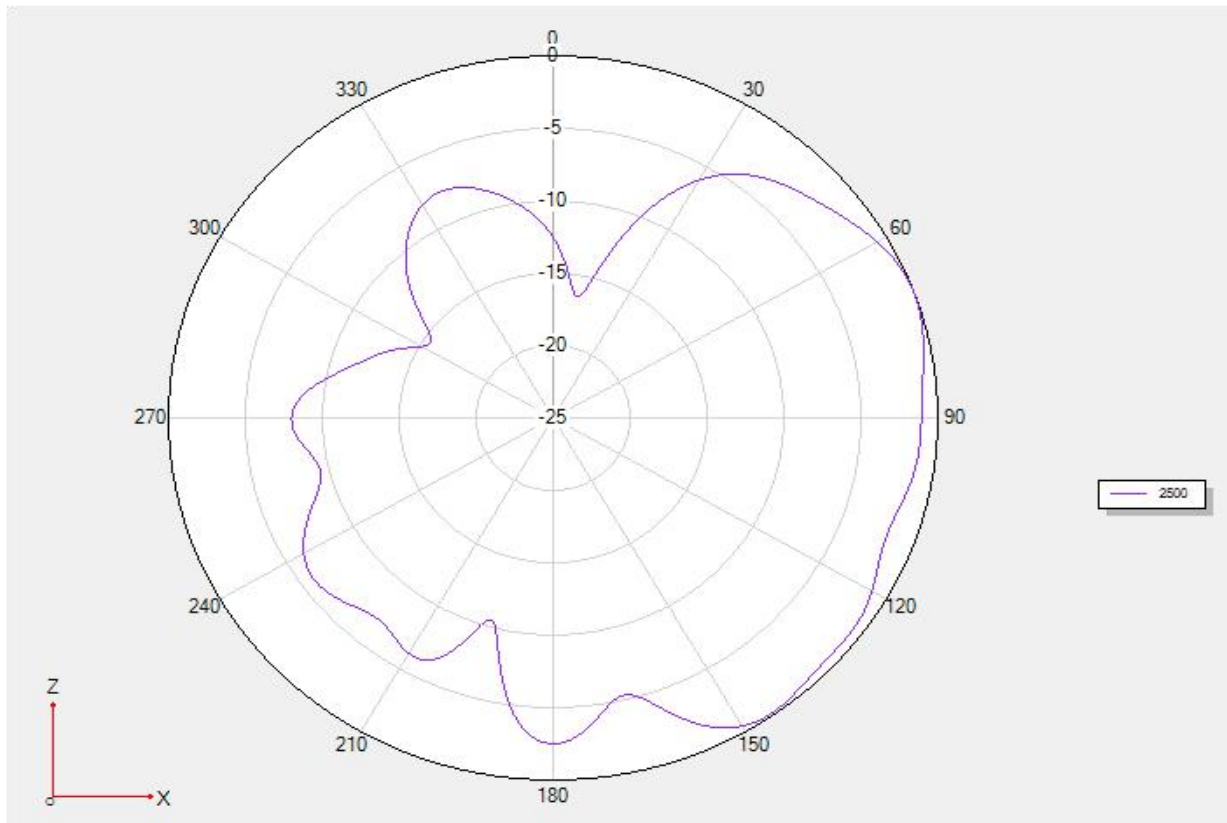
2480.00MHz



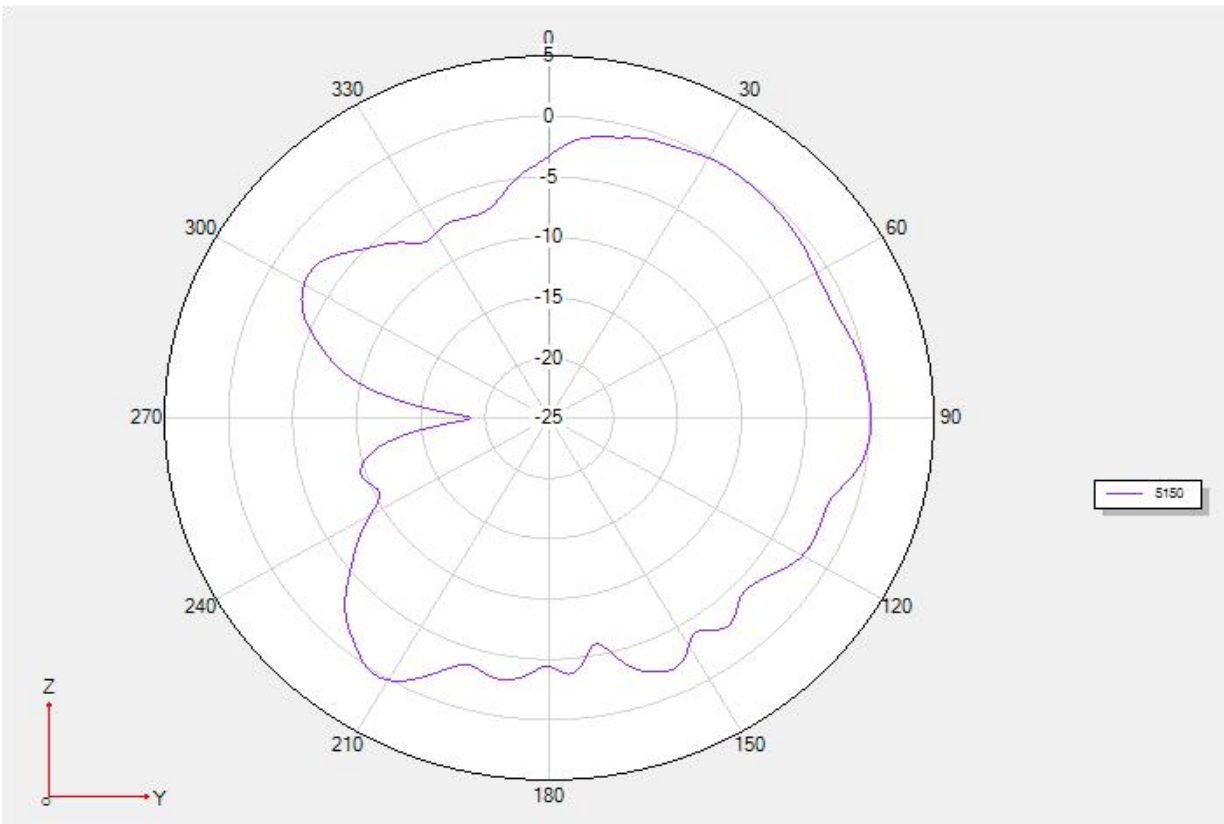
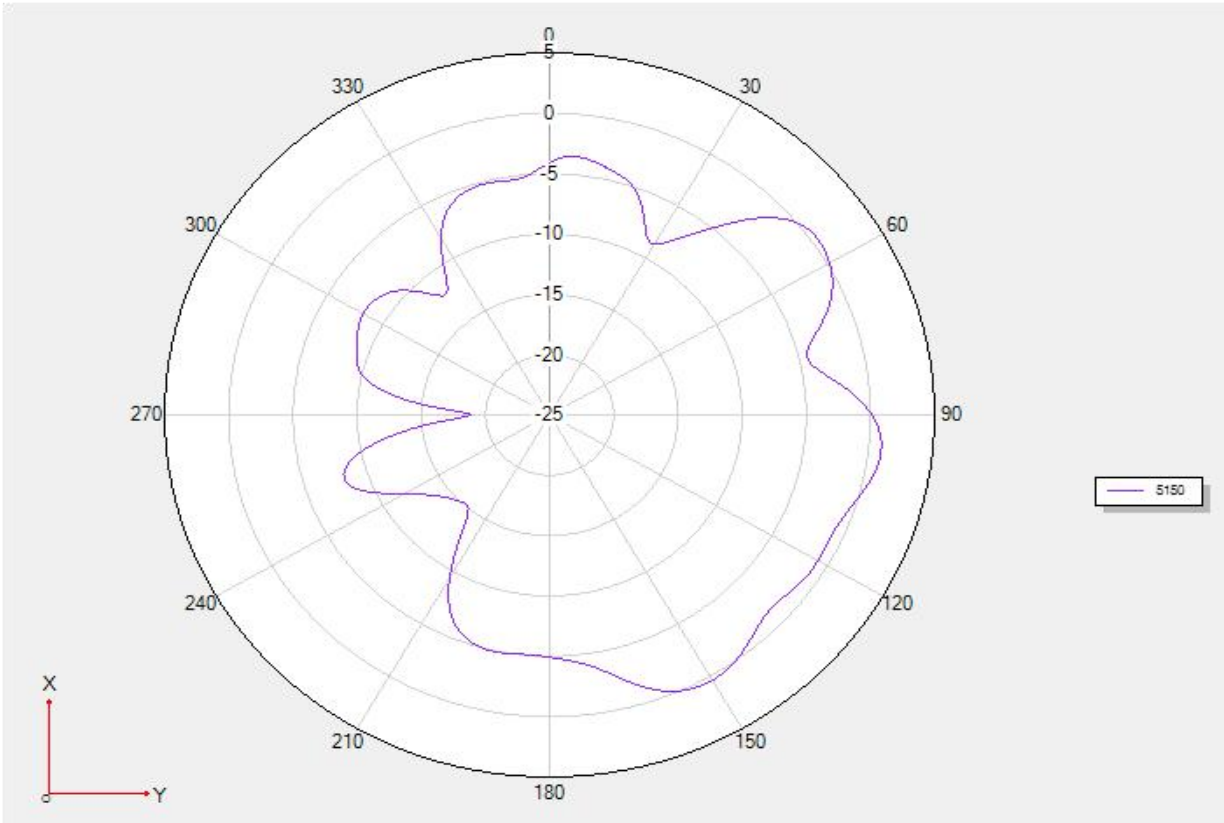


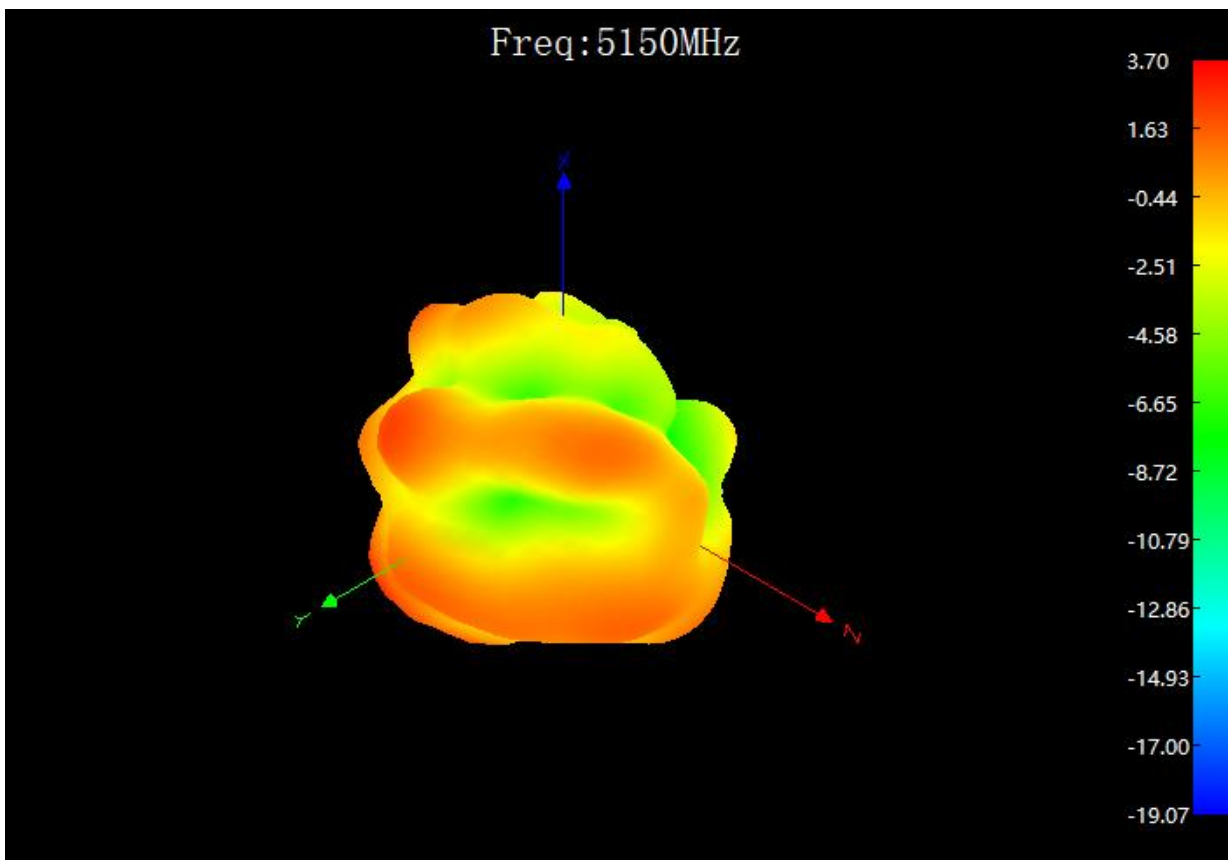
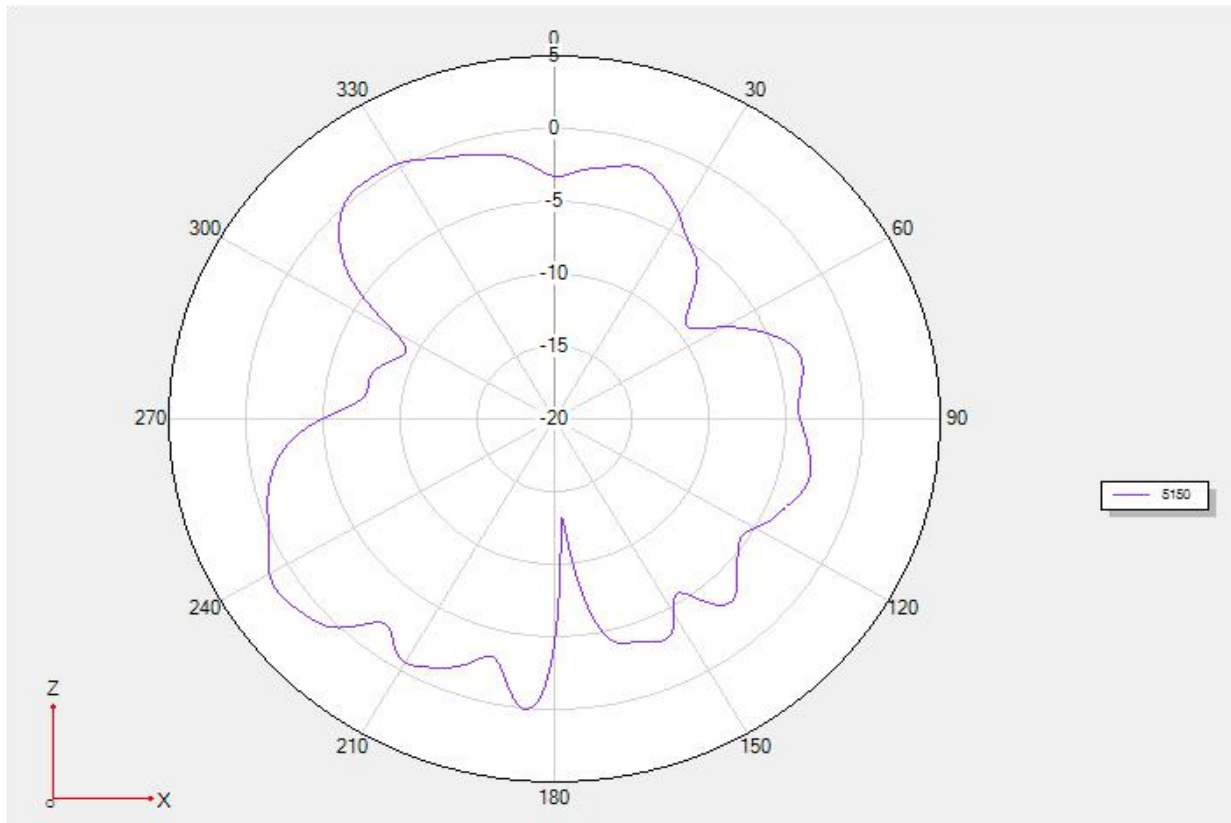
2500.00MHz



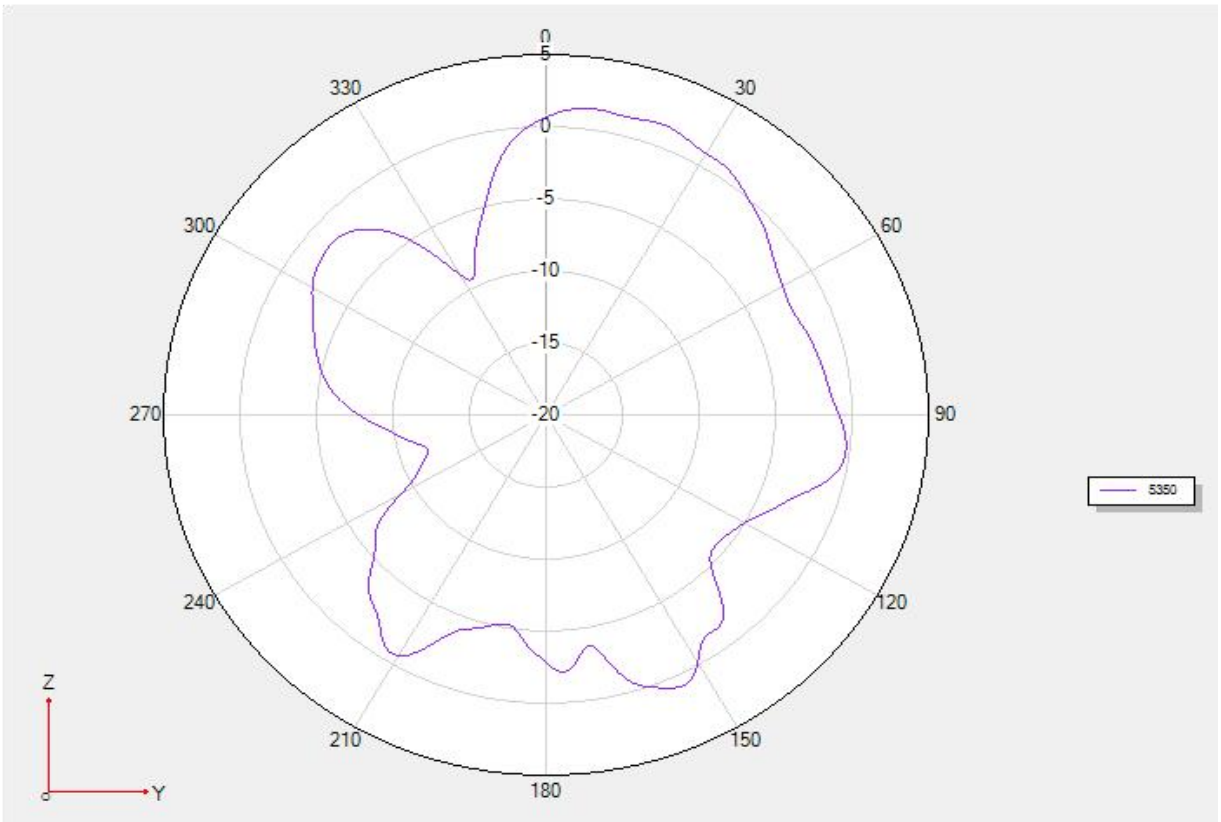
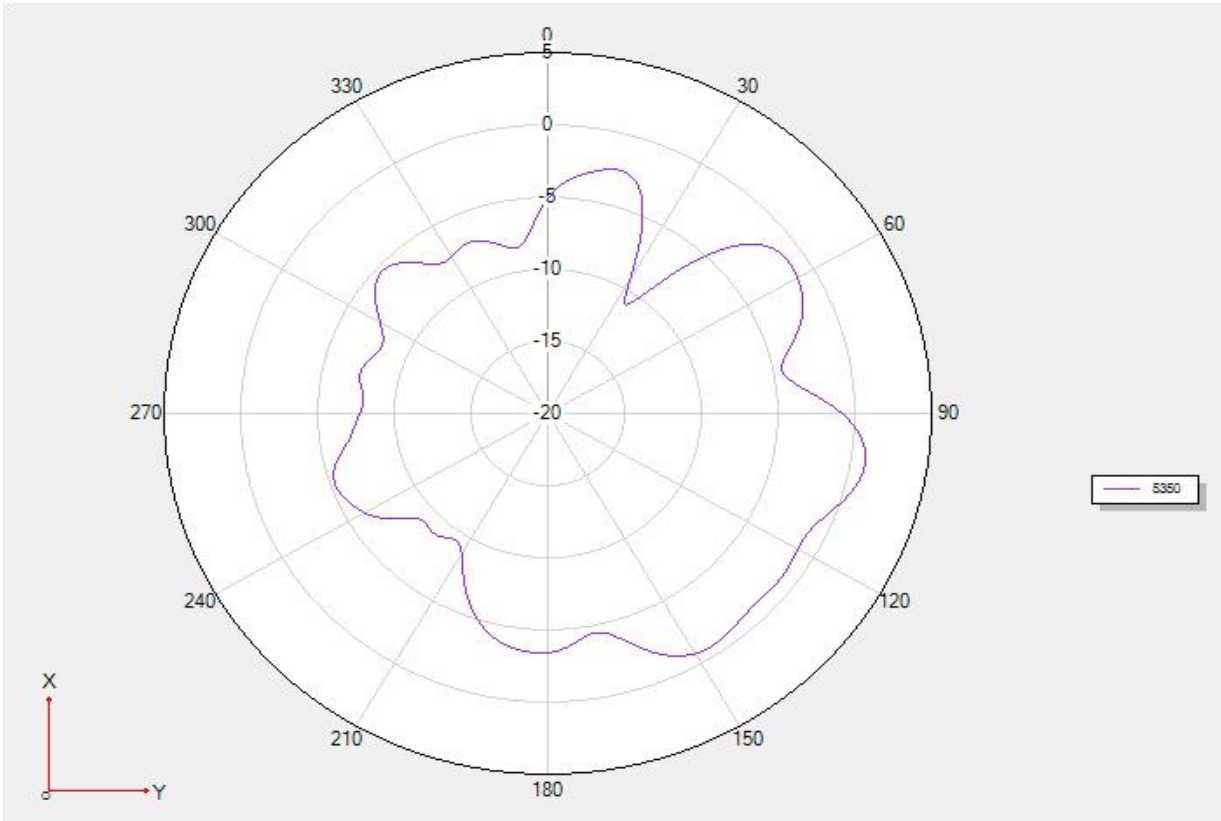


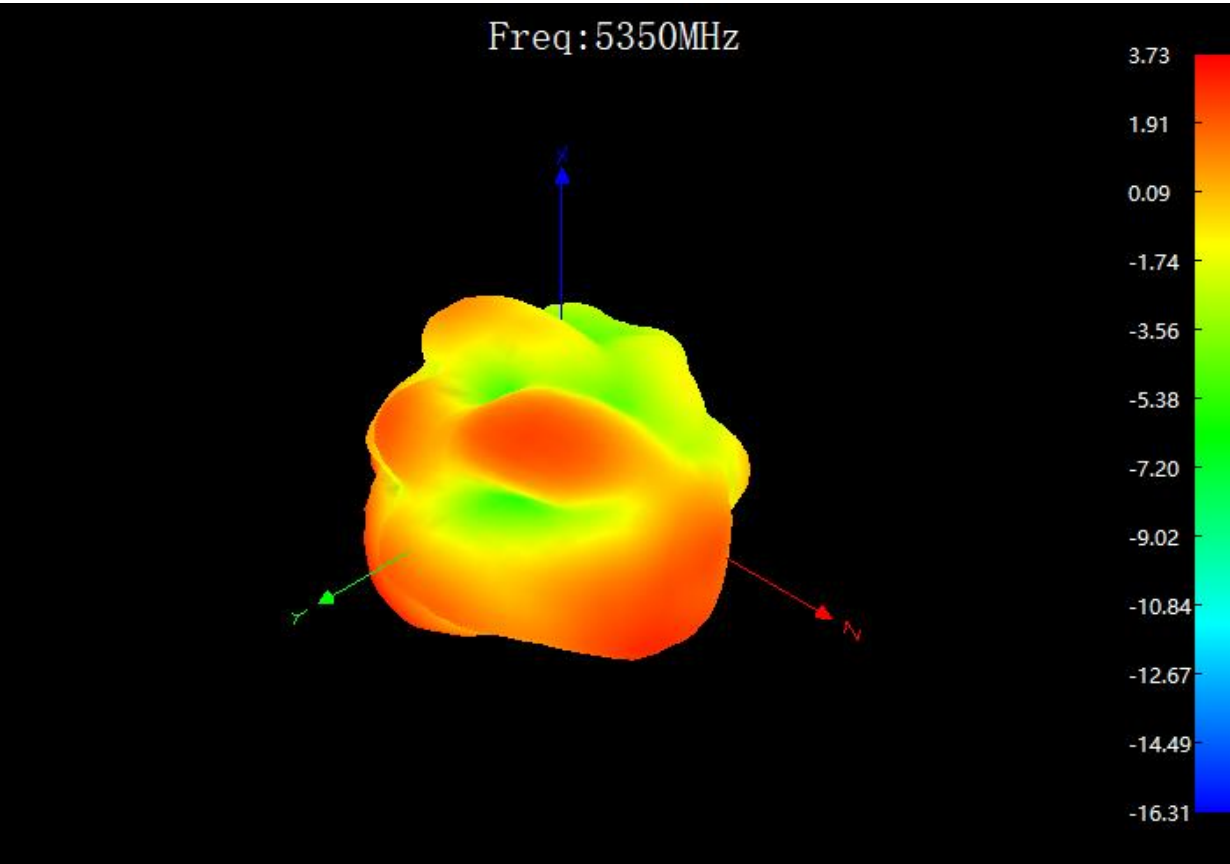
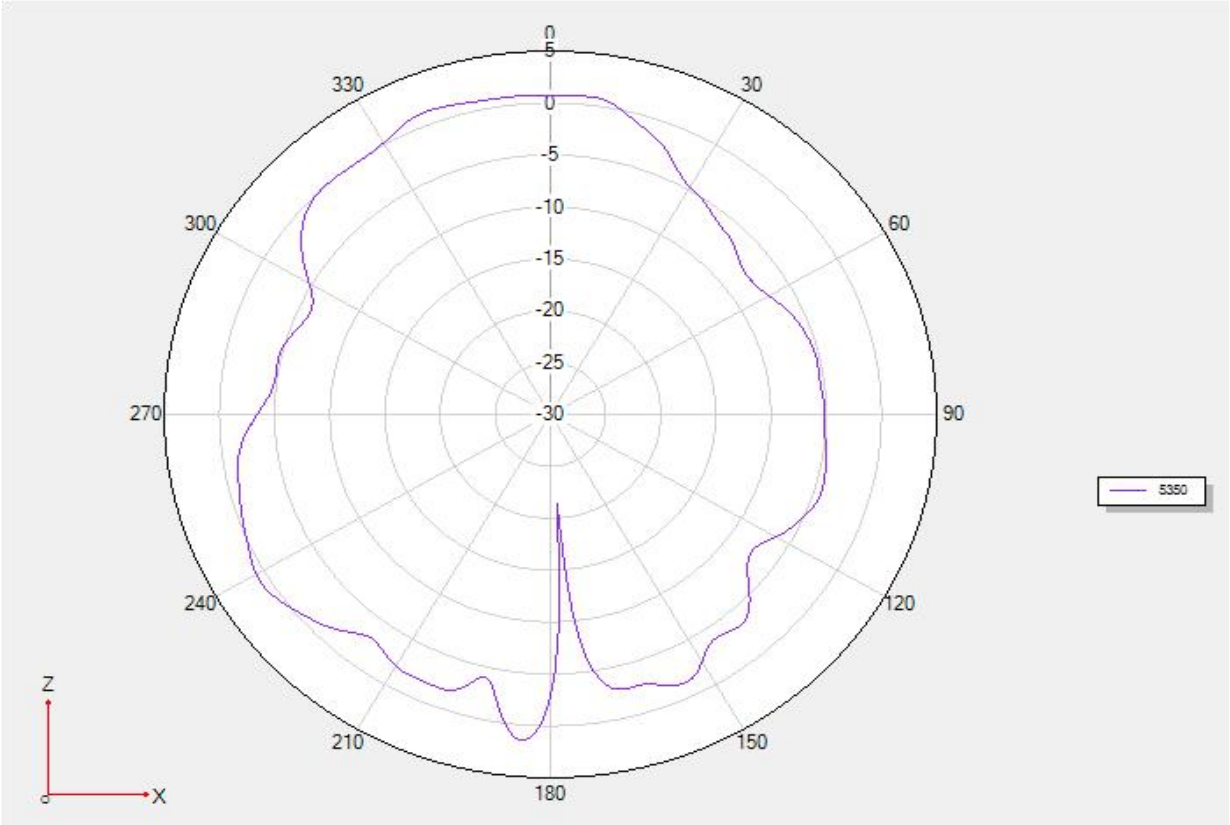
5150.00MHz



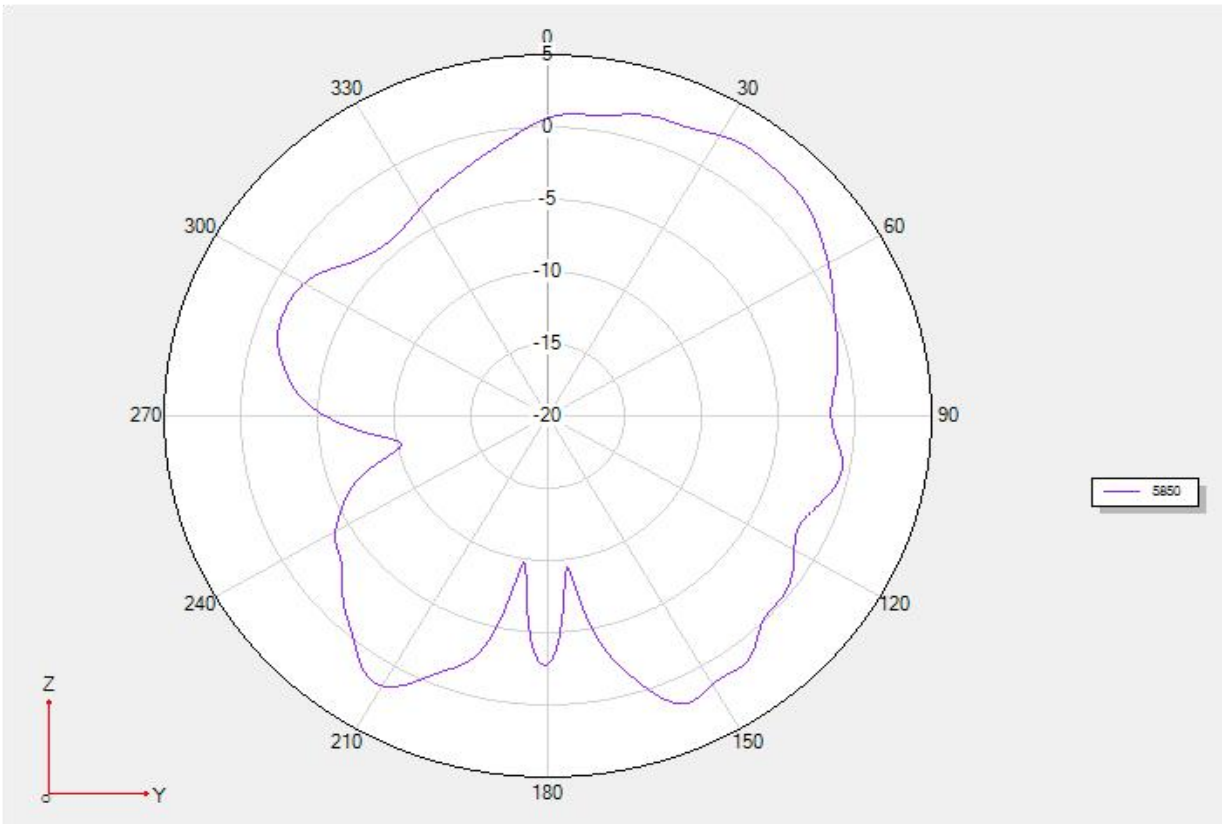
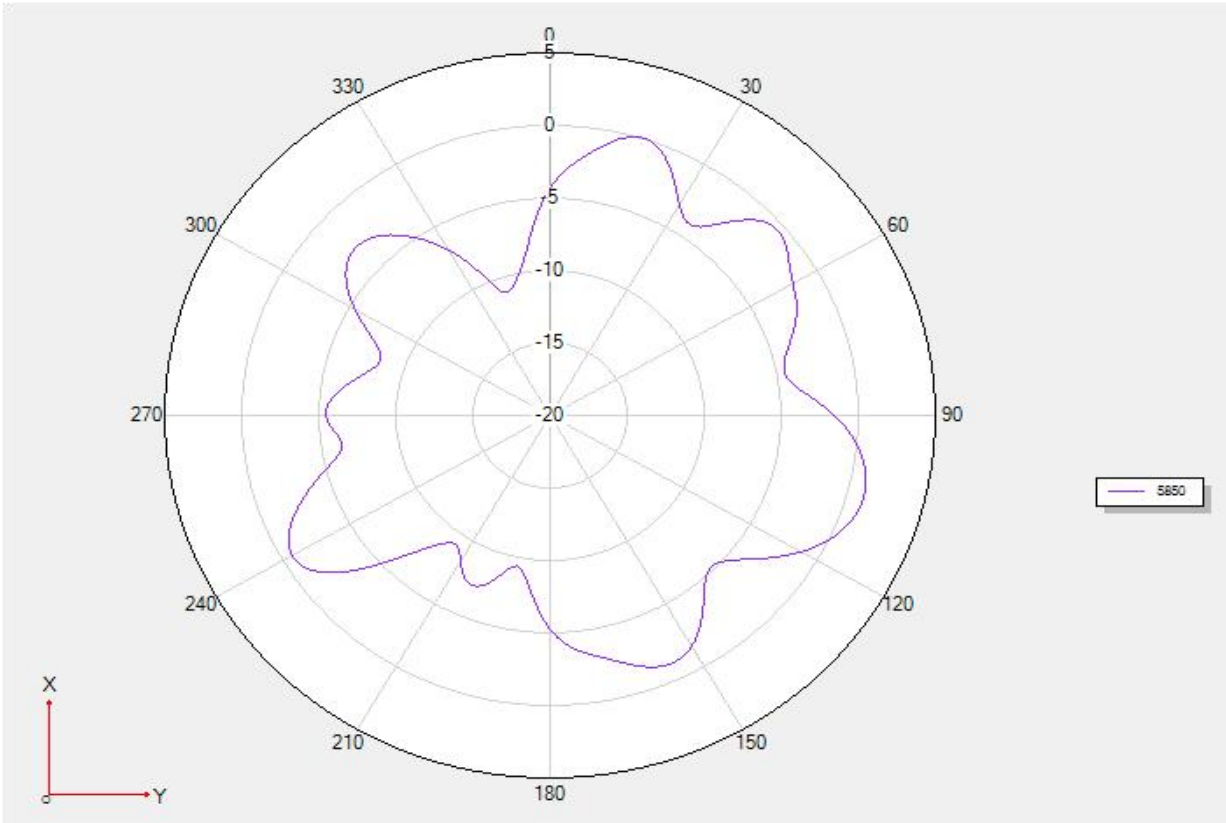


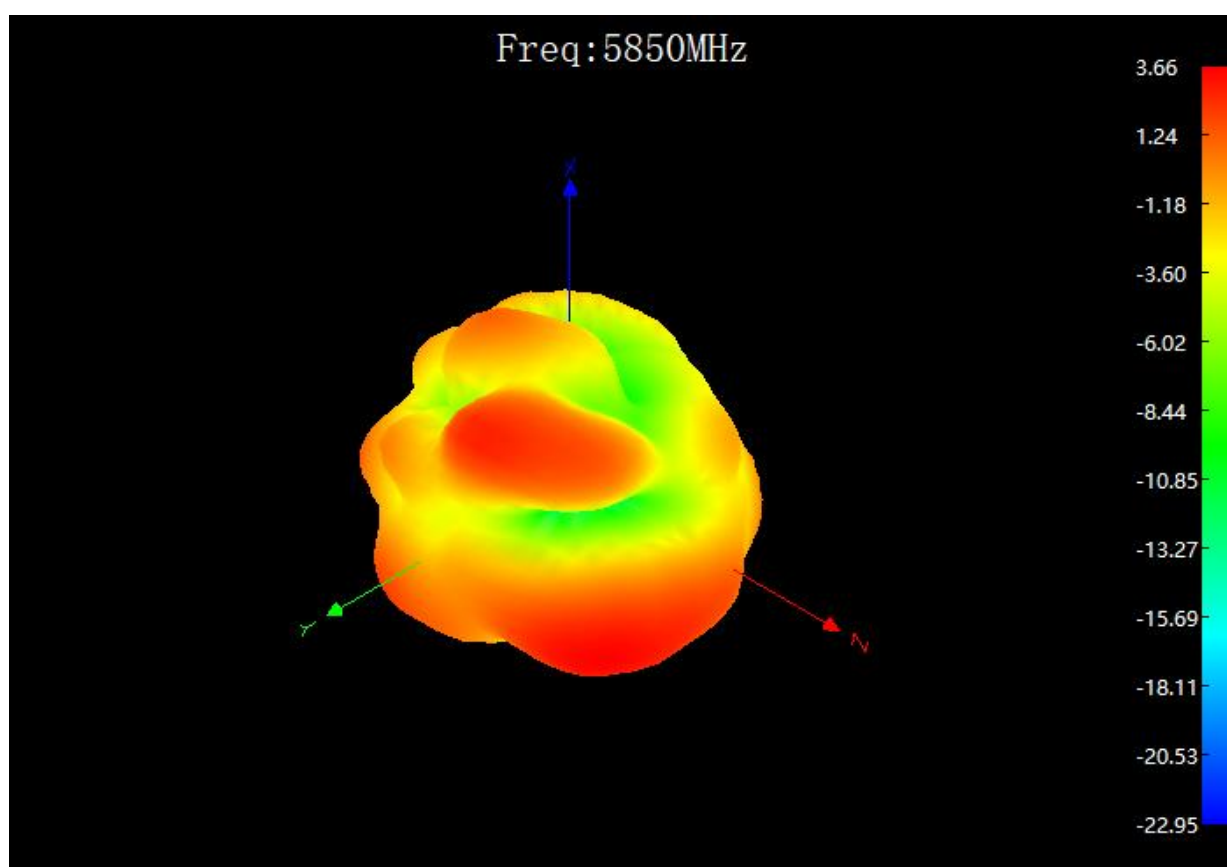
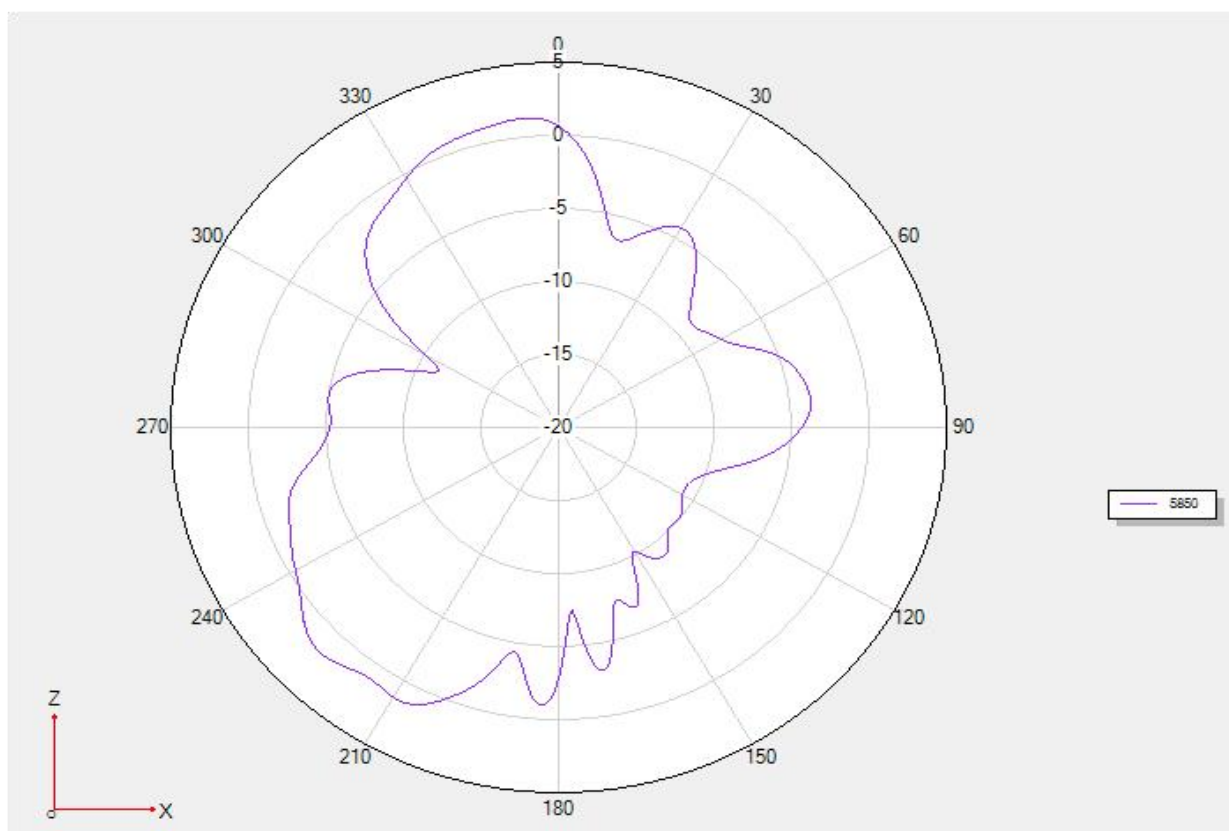
5350.00MHz



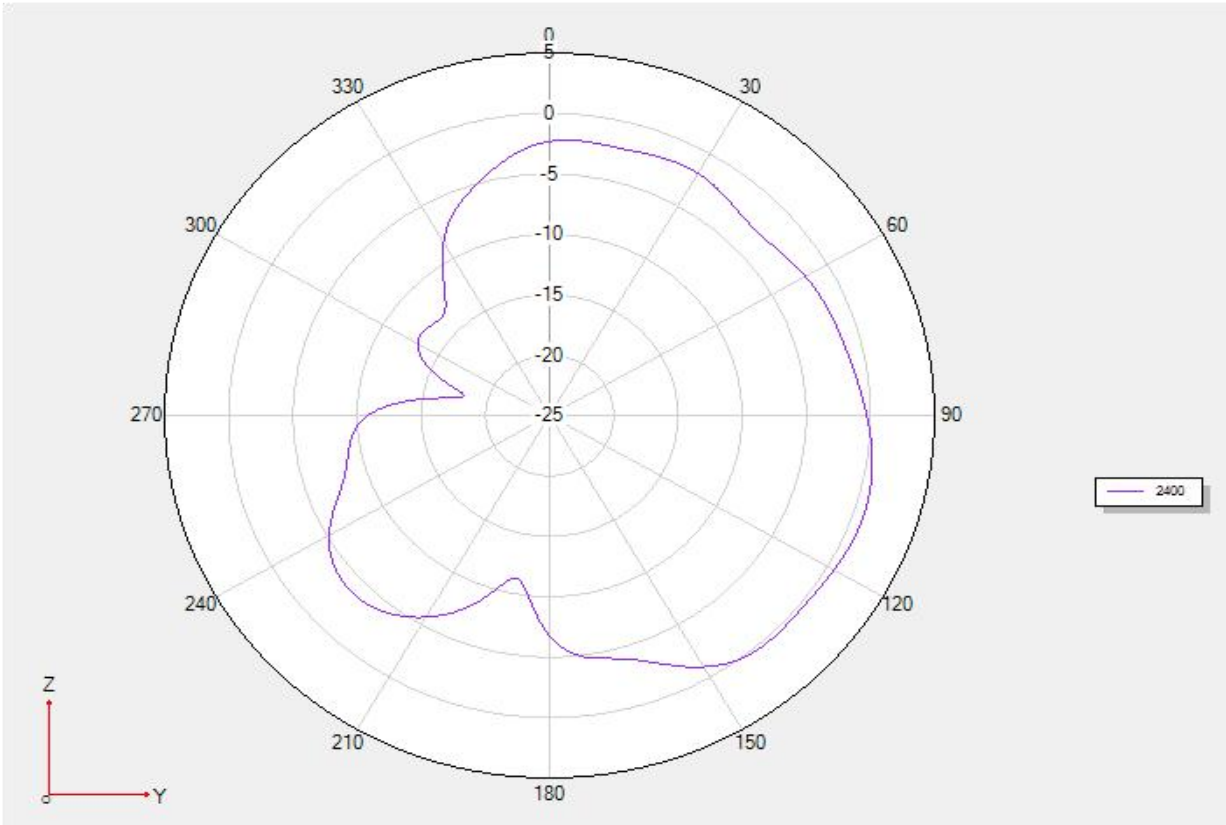
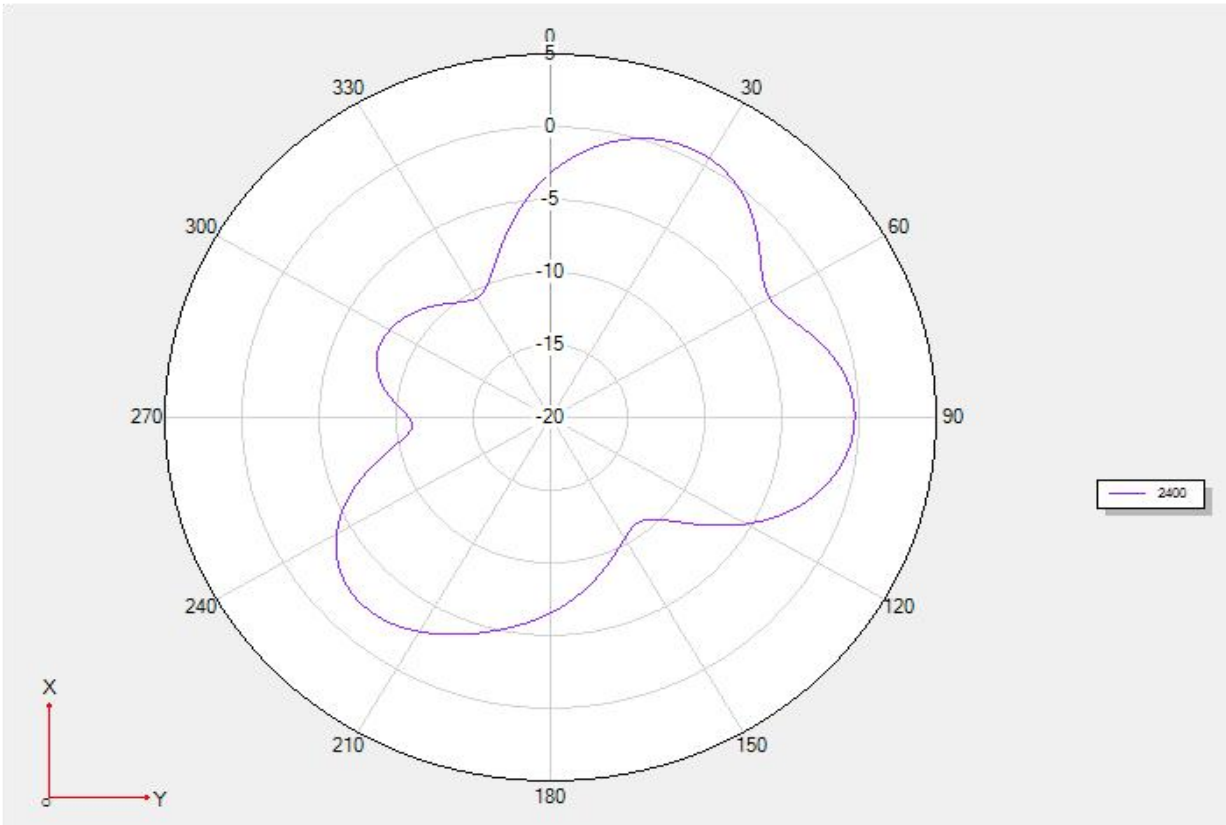


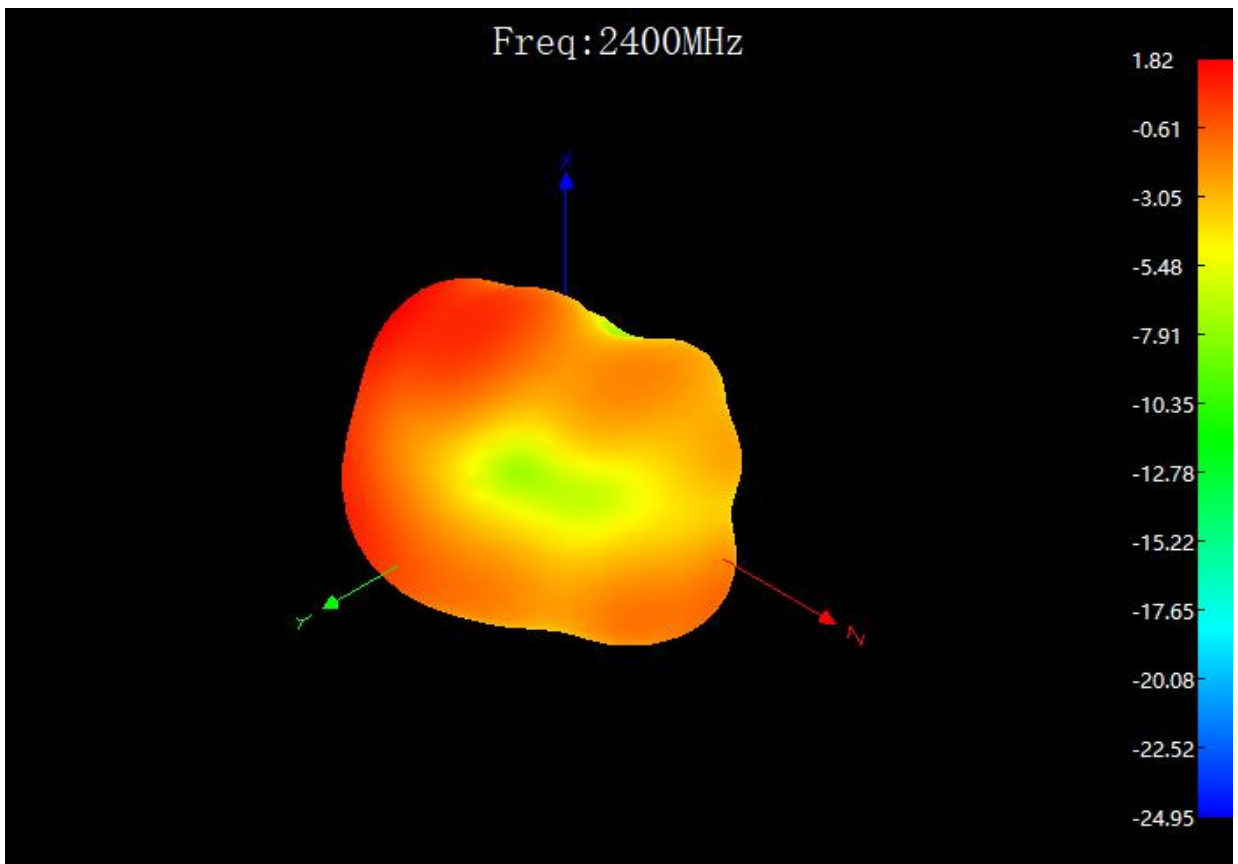
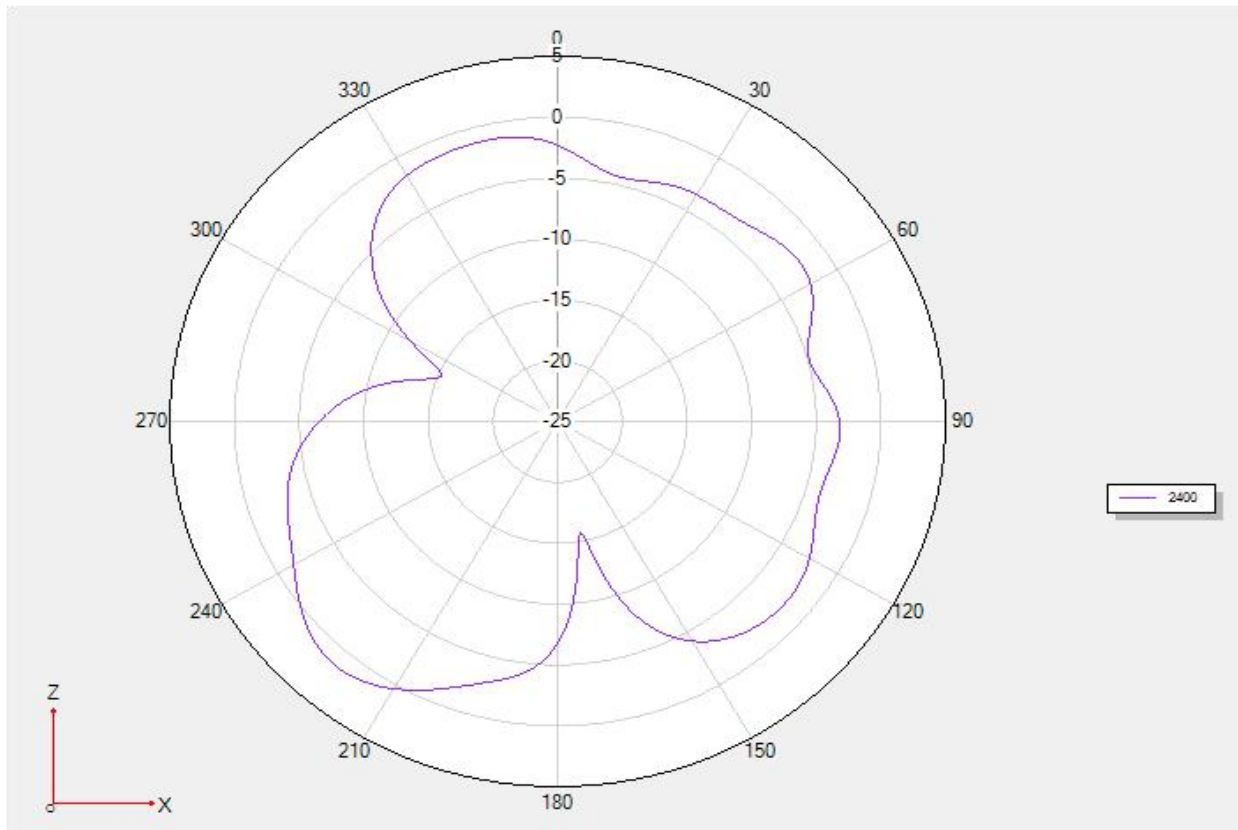
5850.00MHz



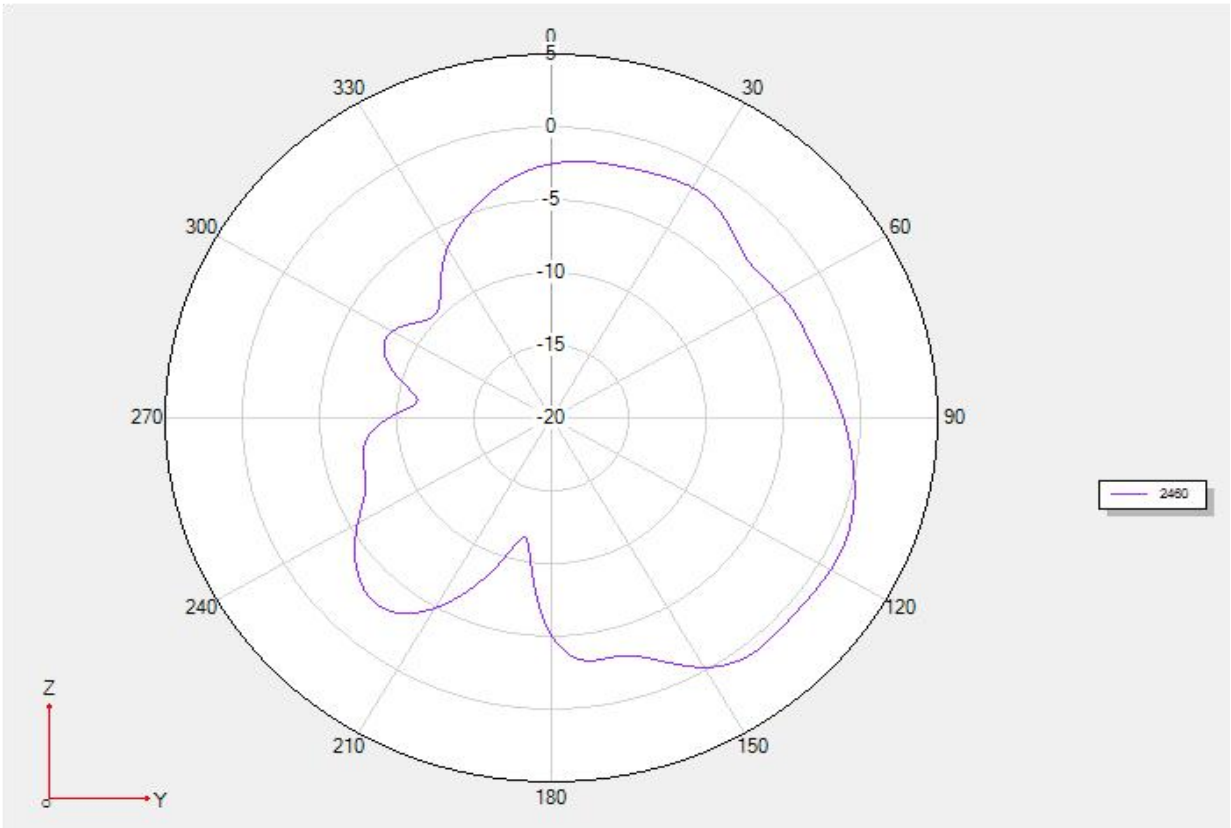
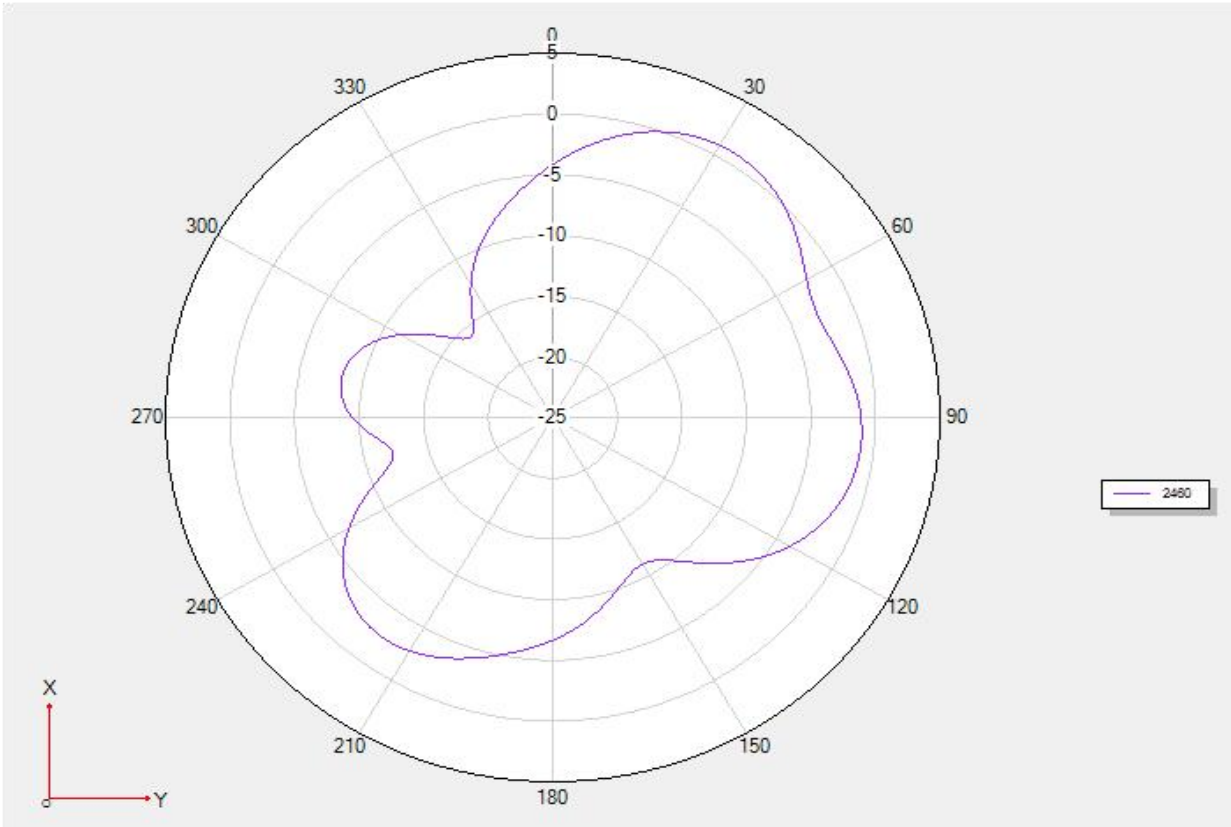


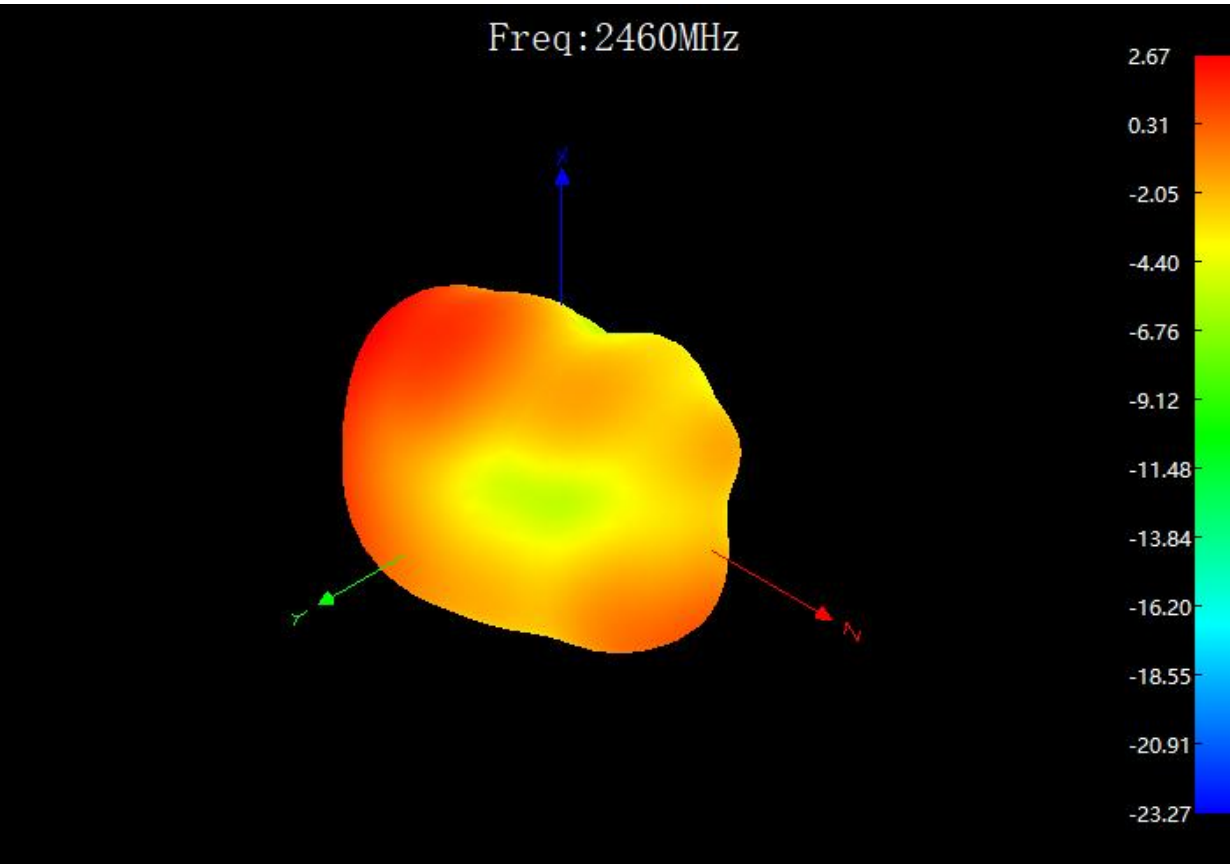
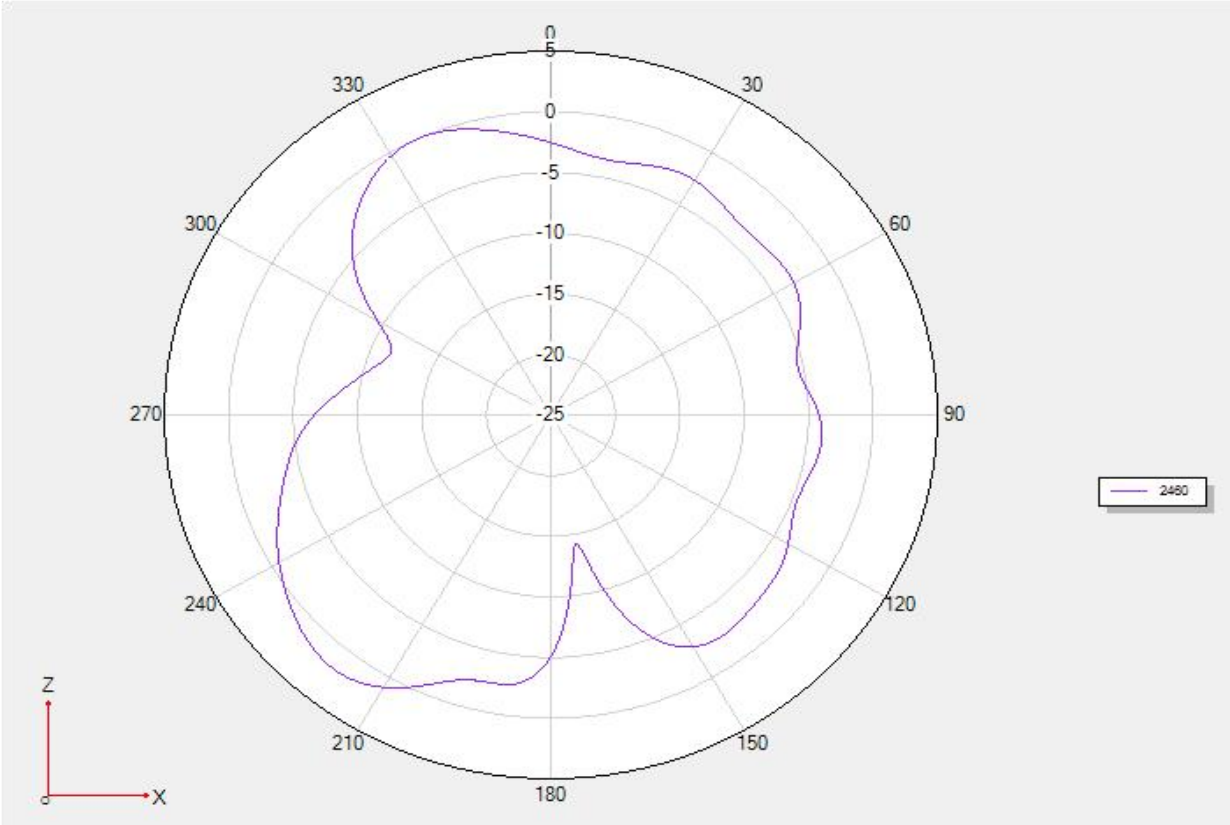
Ant. 2
2400.00MHz



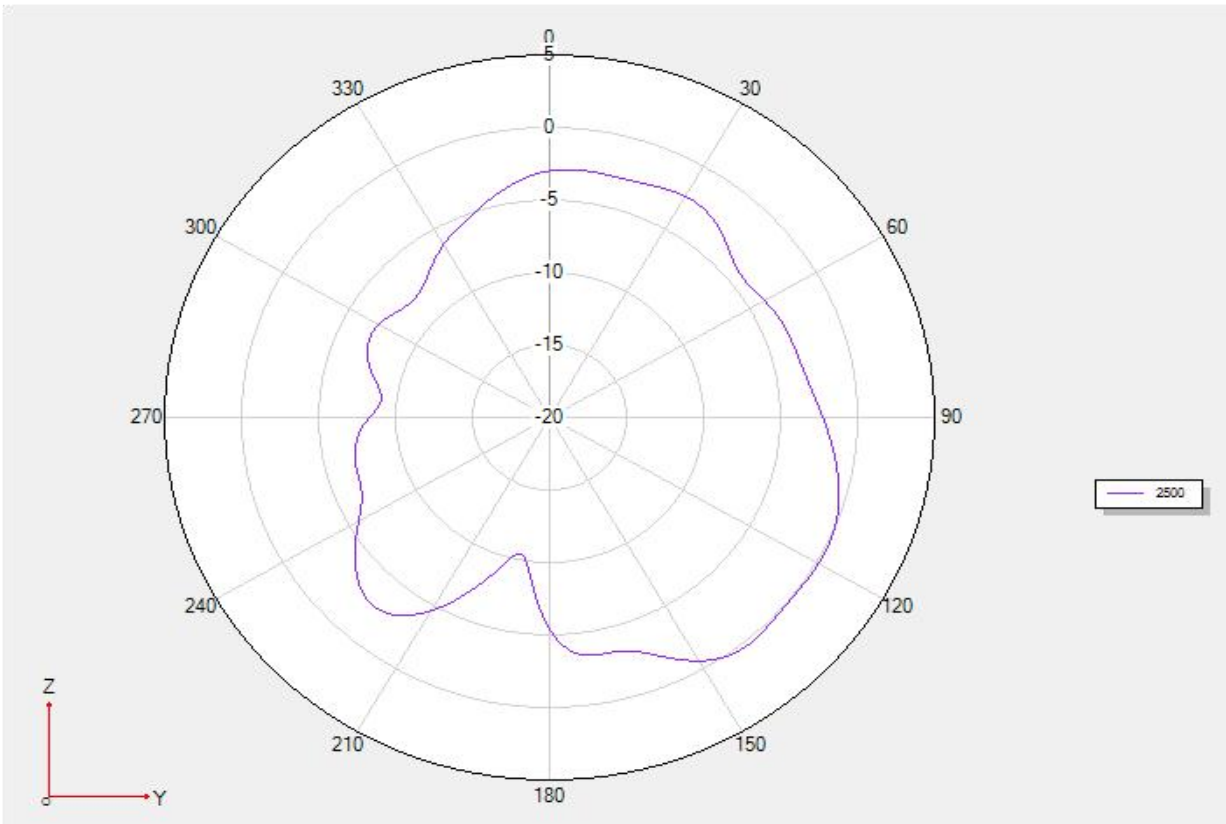
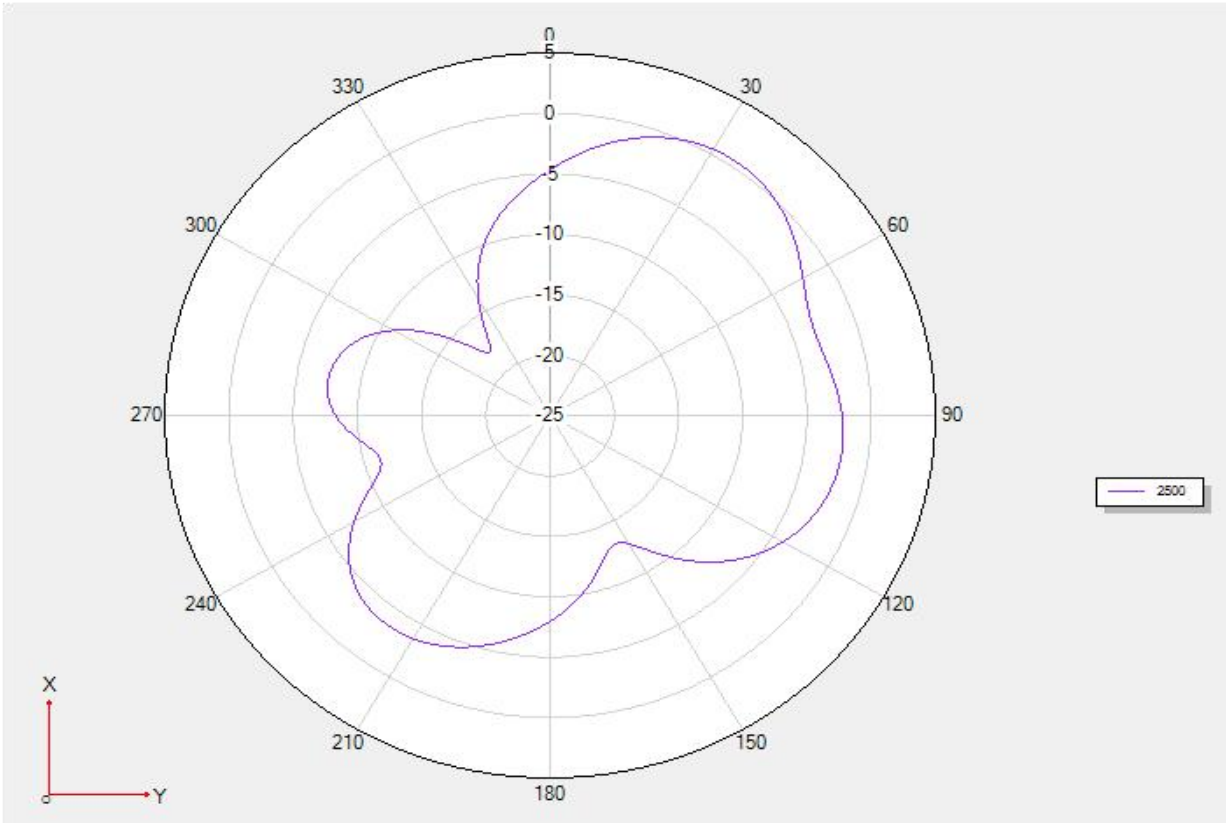


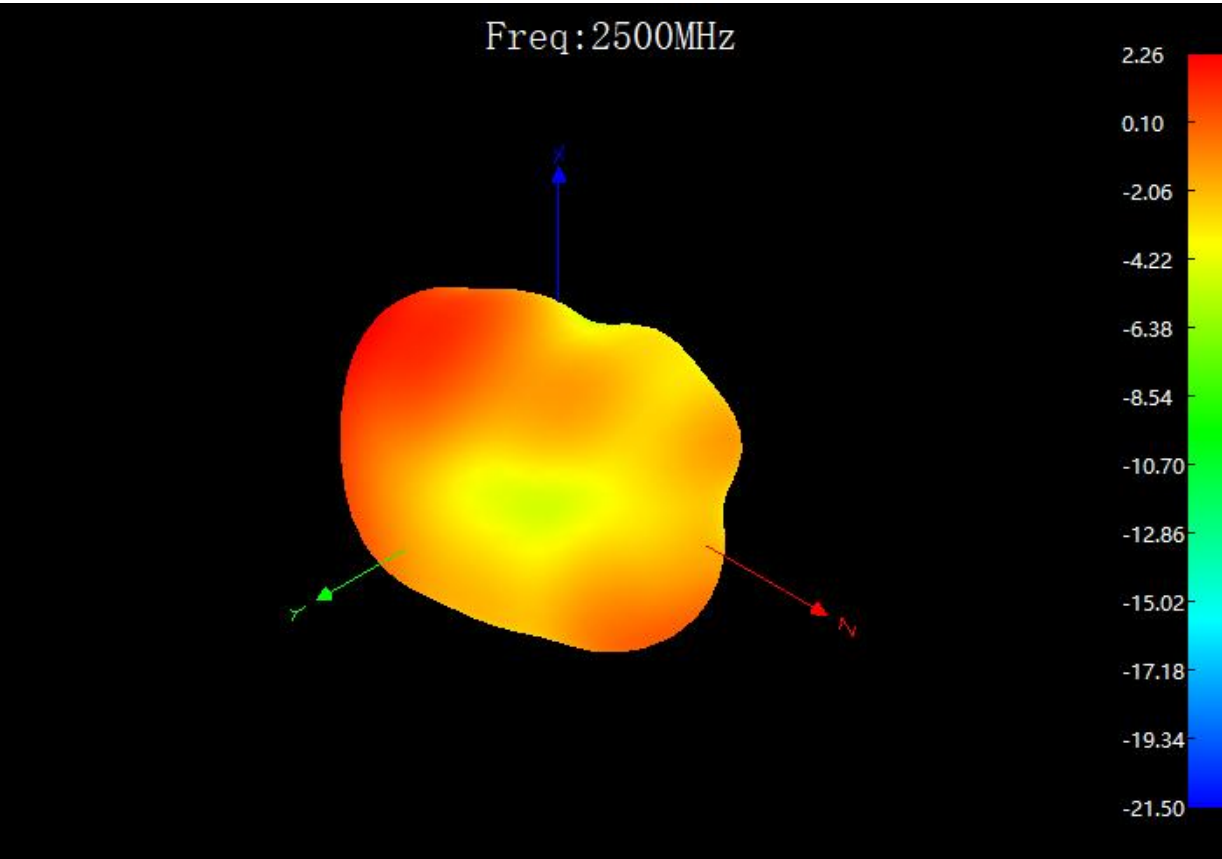
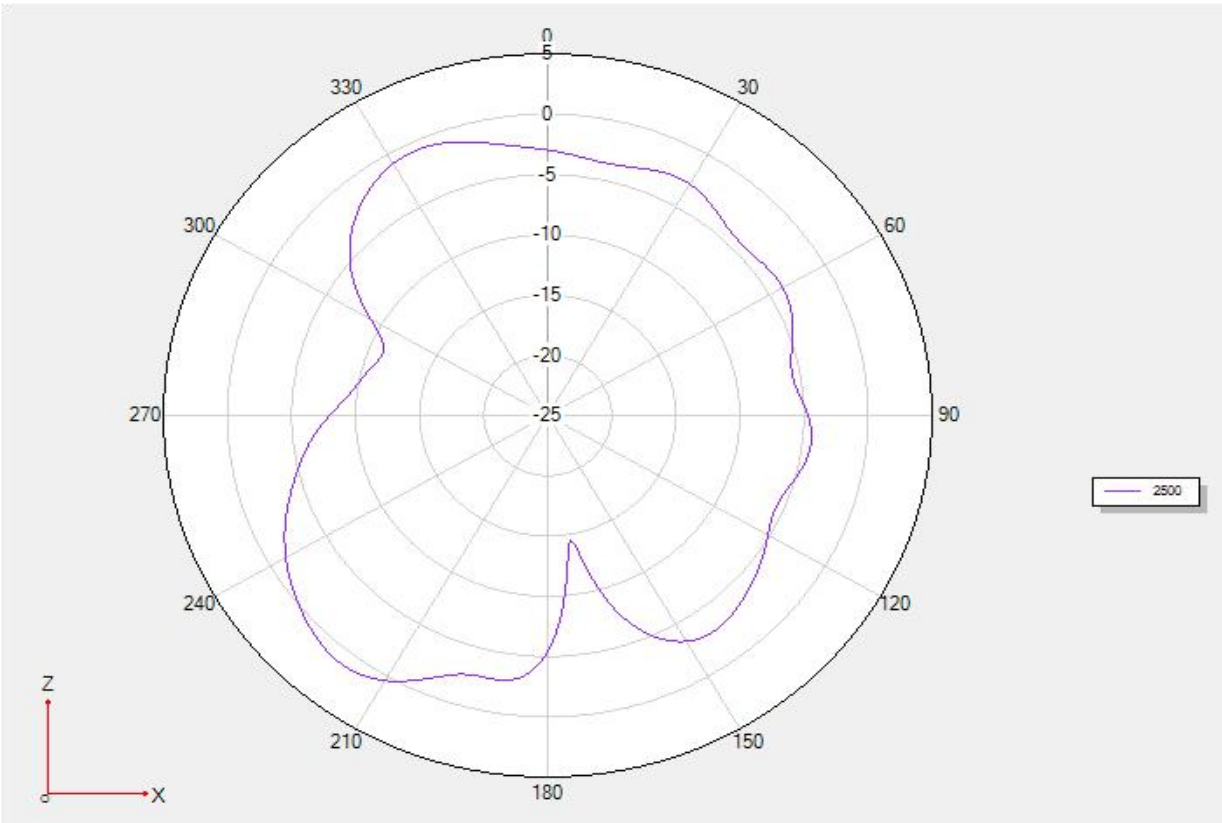
2460.00MHz



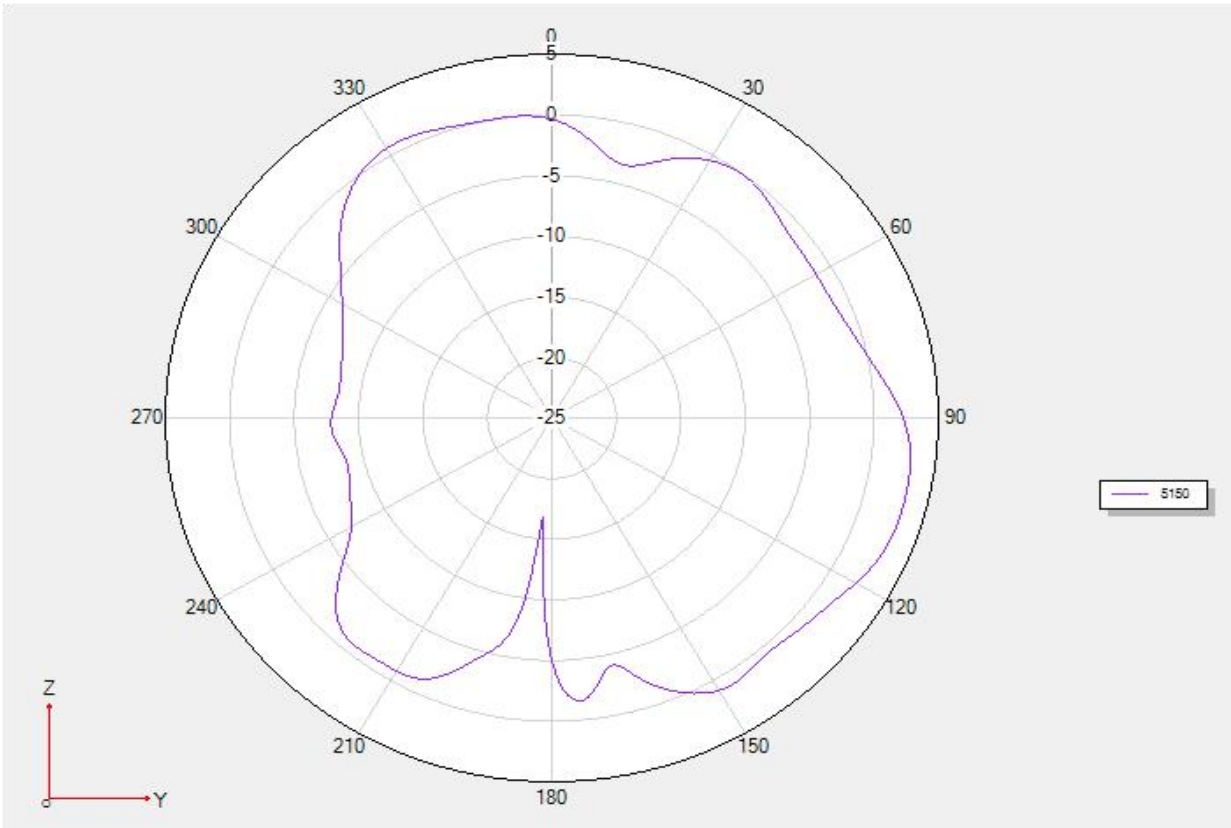
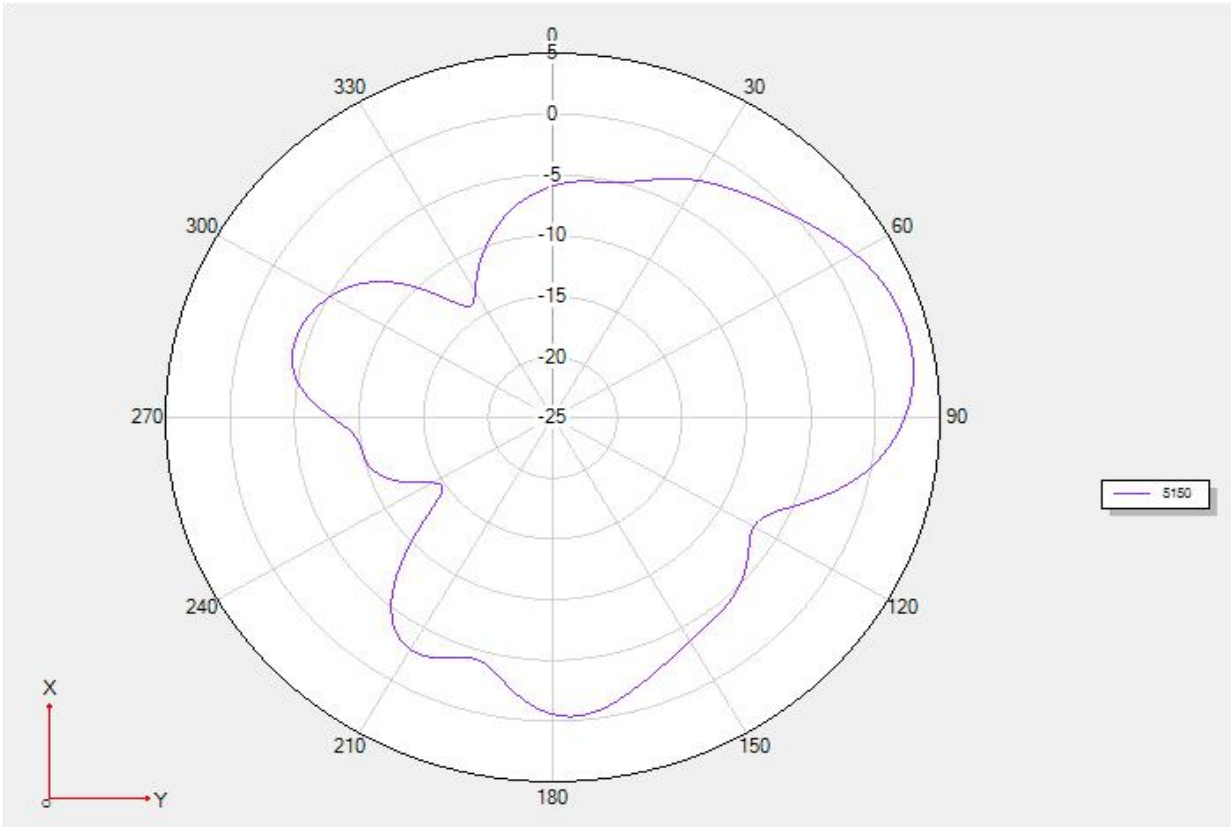


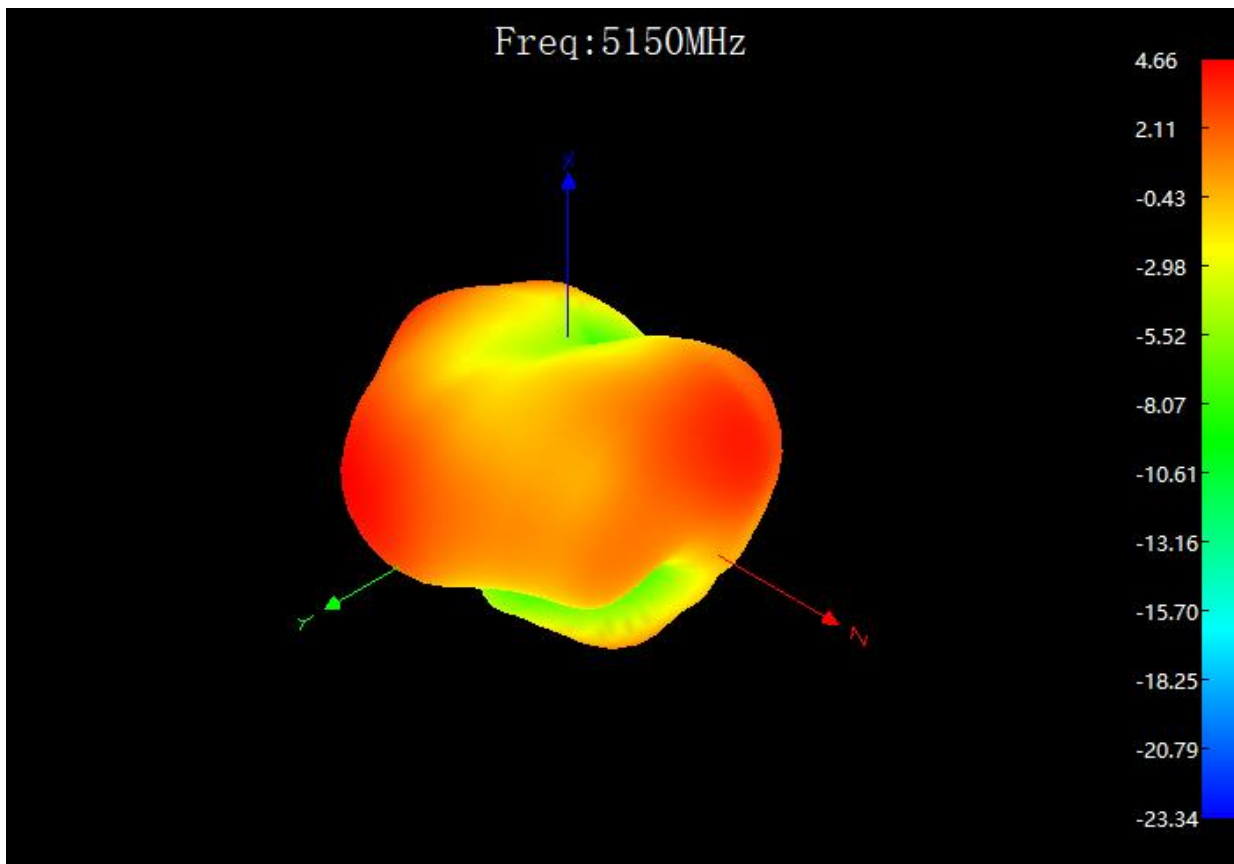
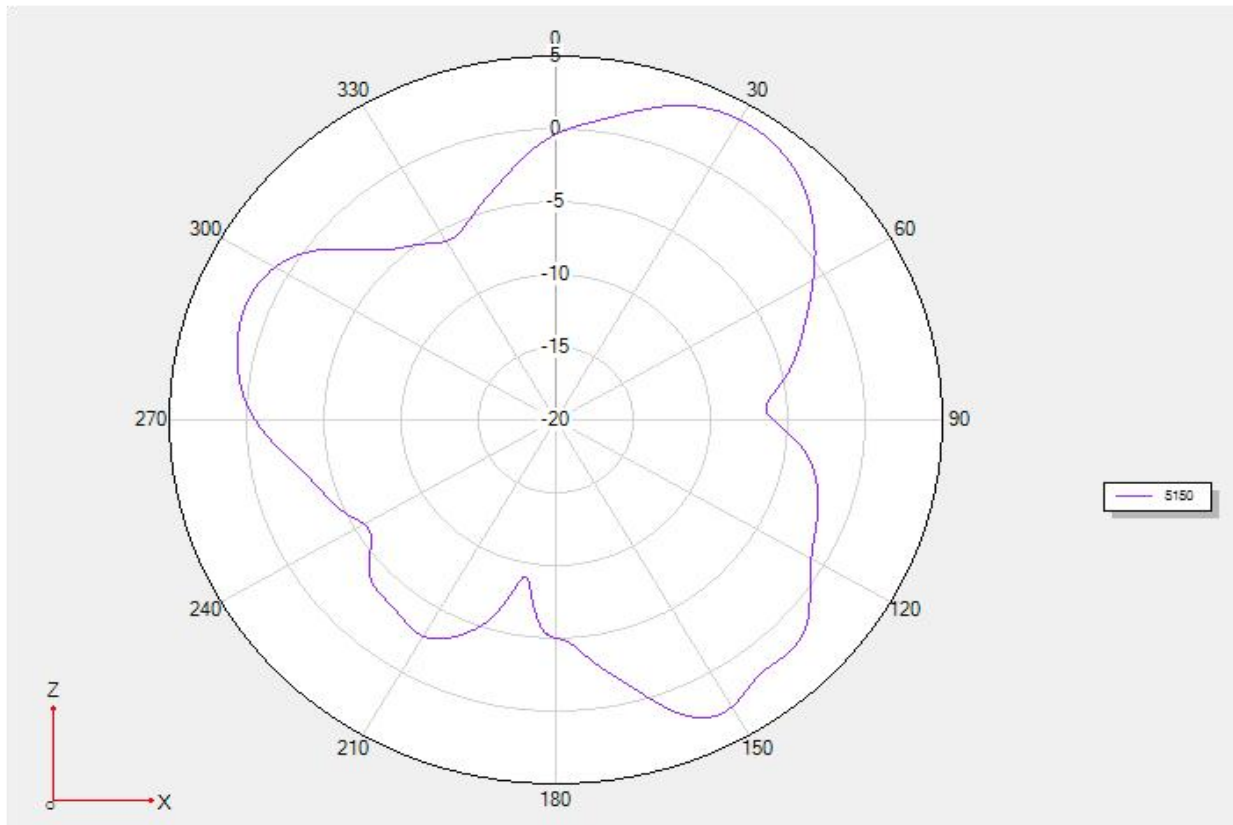
2500.00MHz



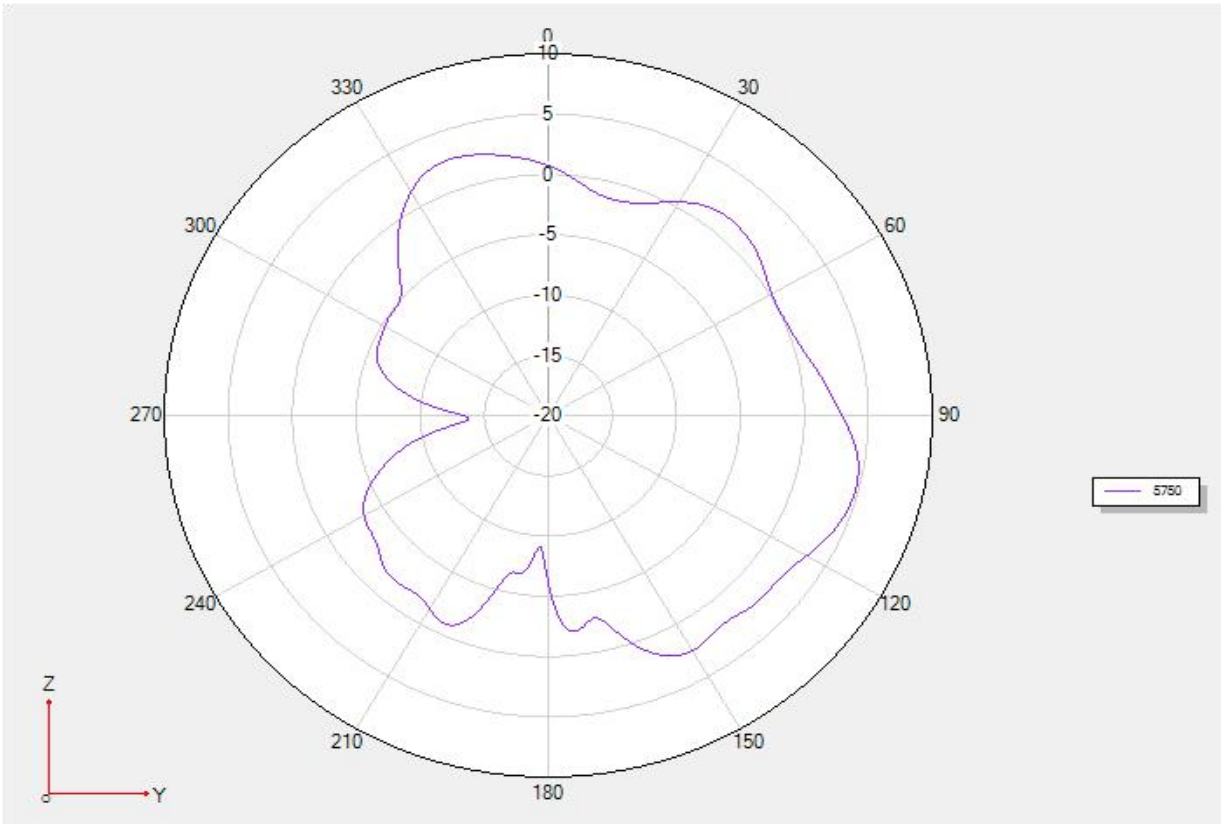
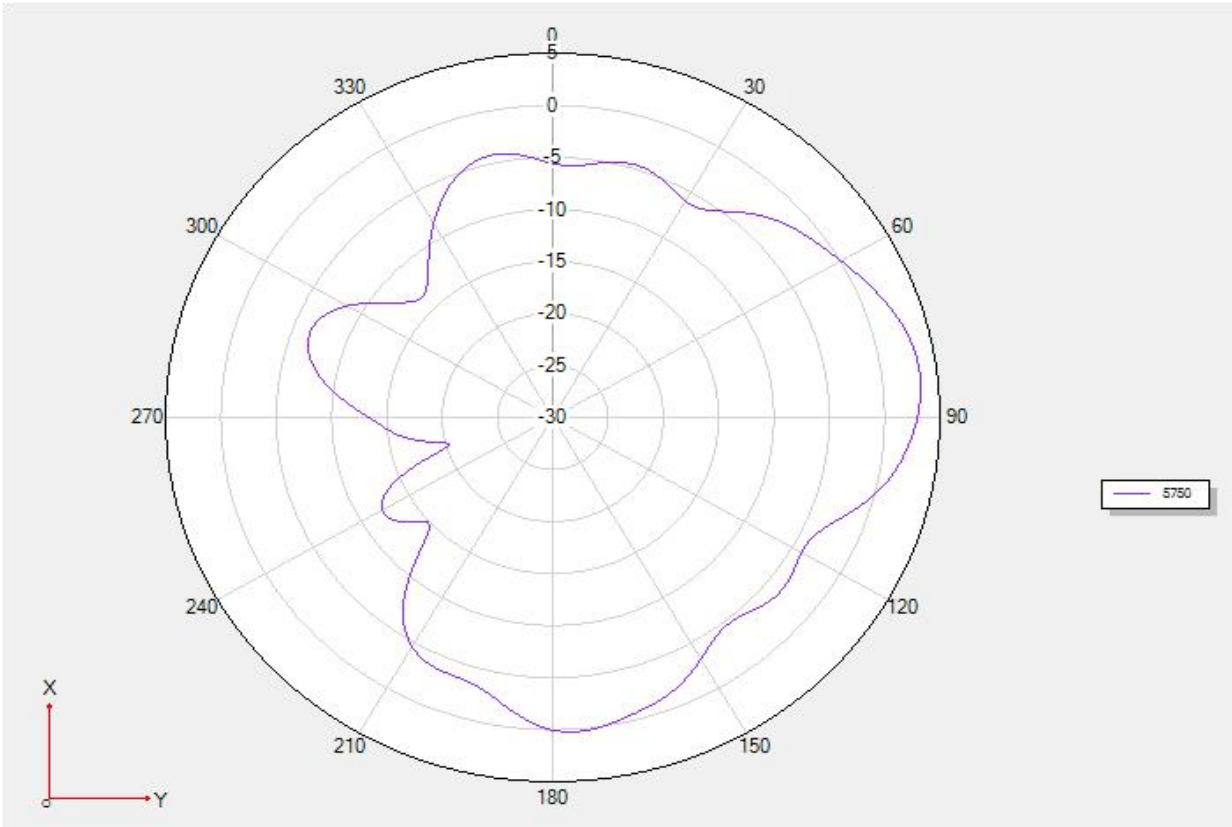


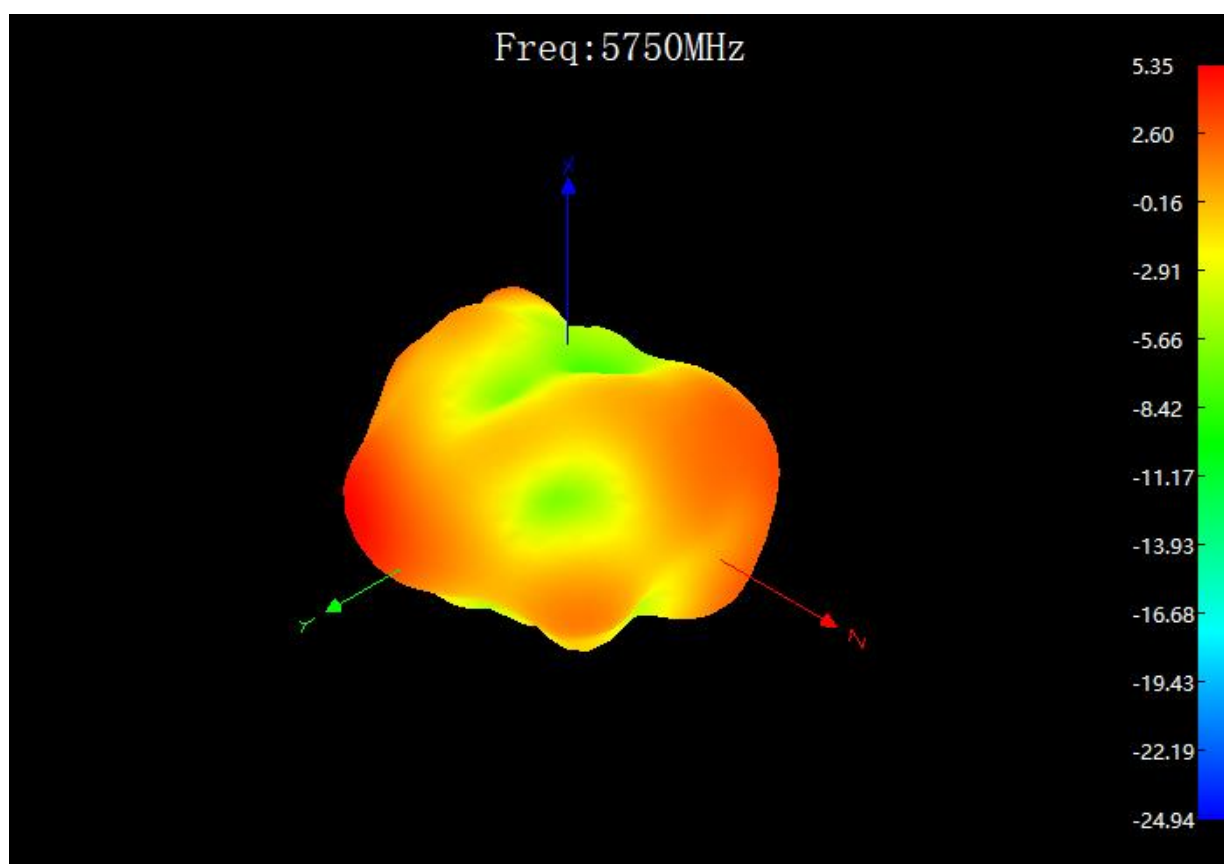
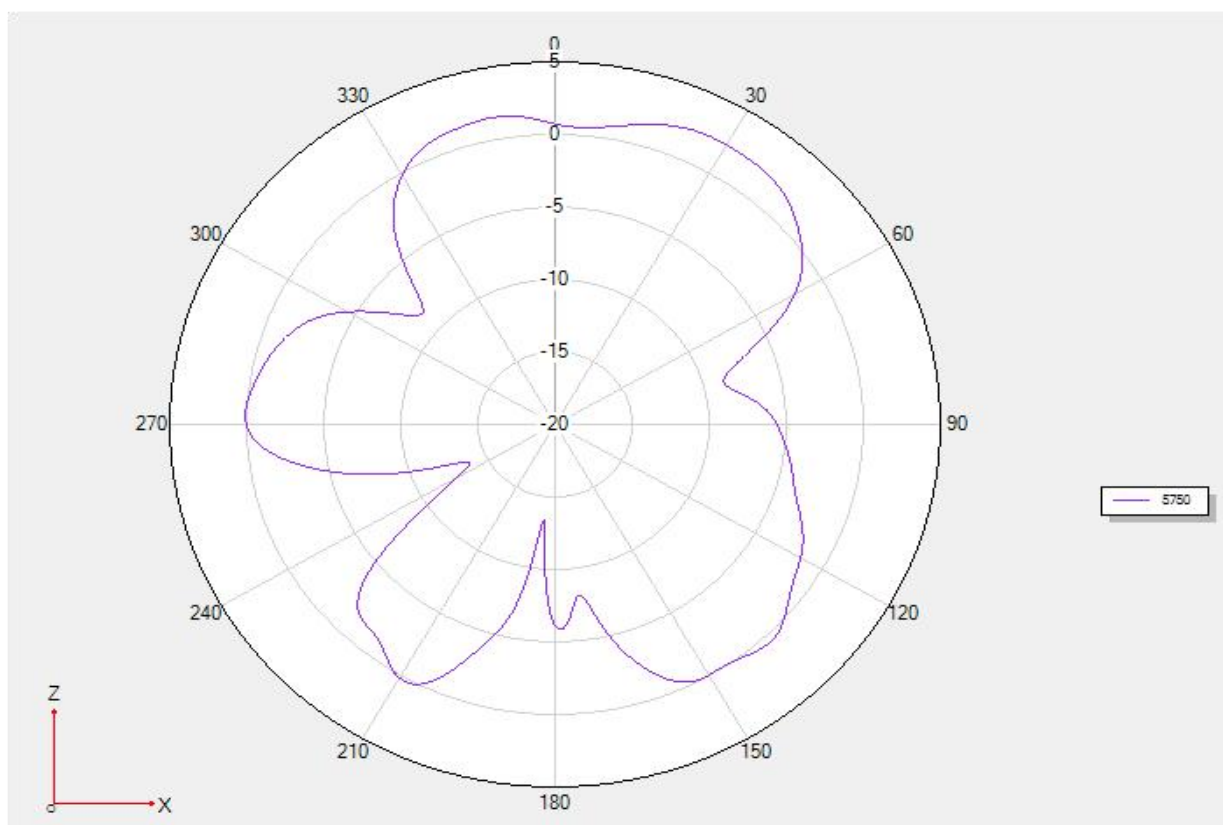
5150.00MHz



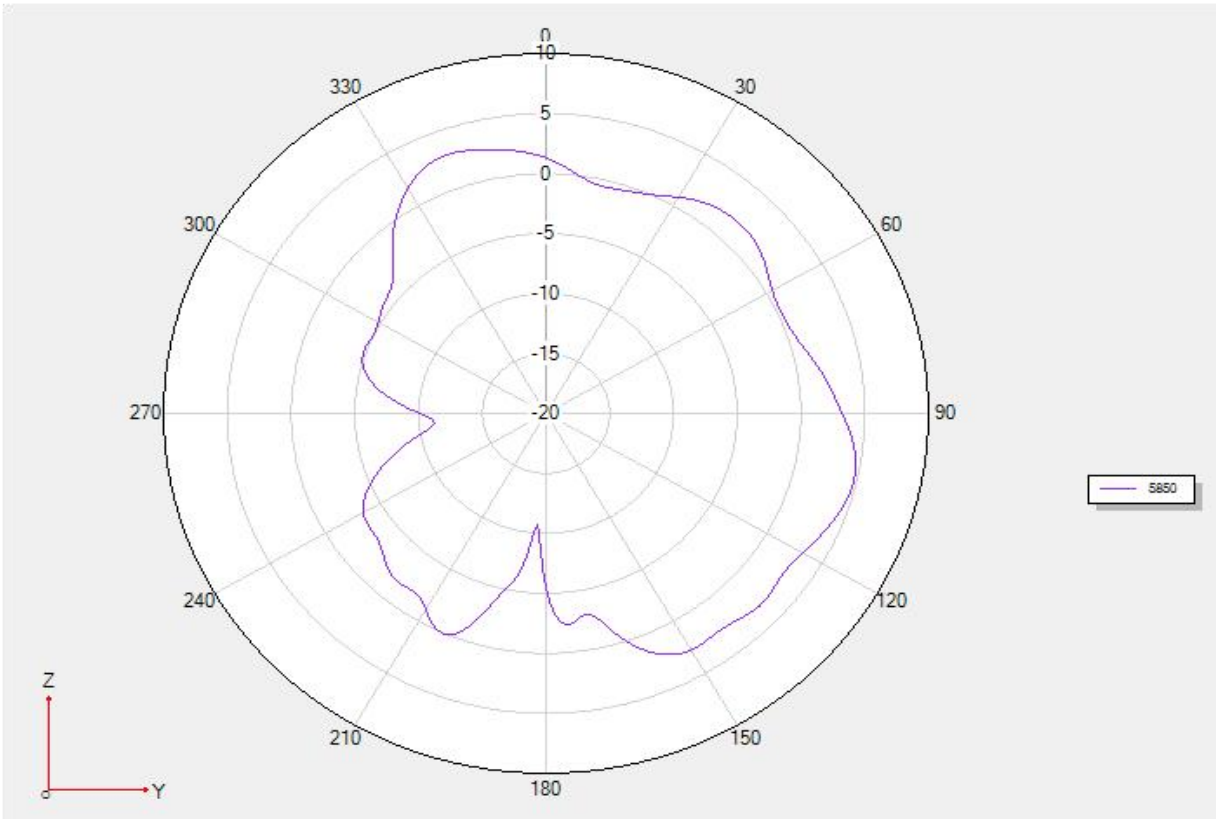
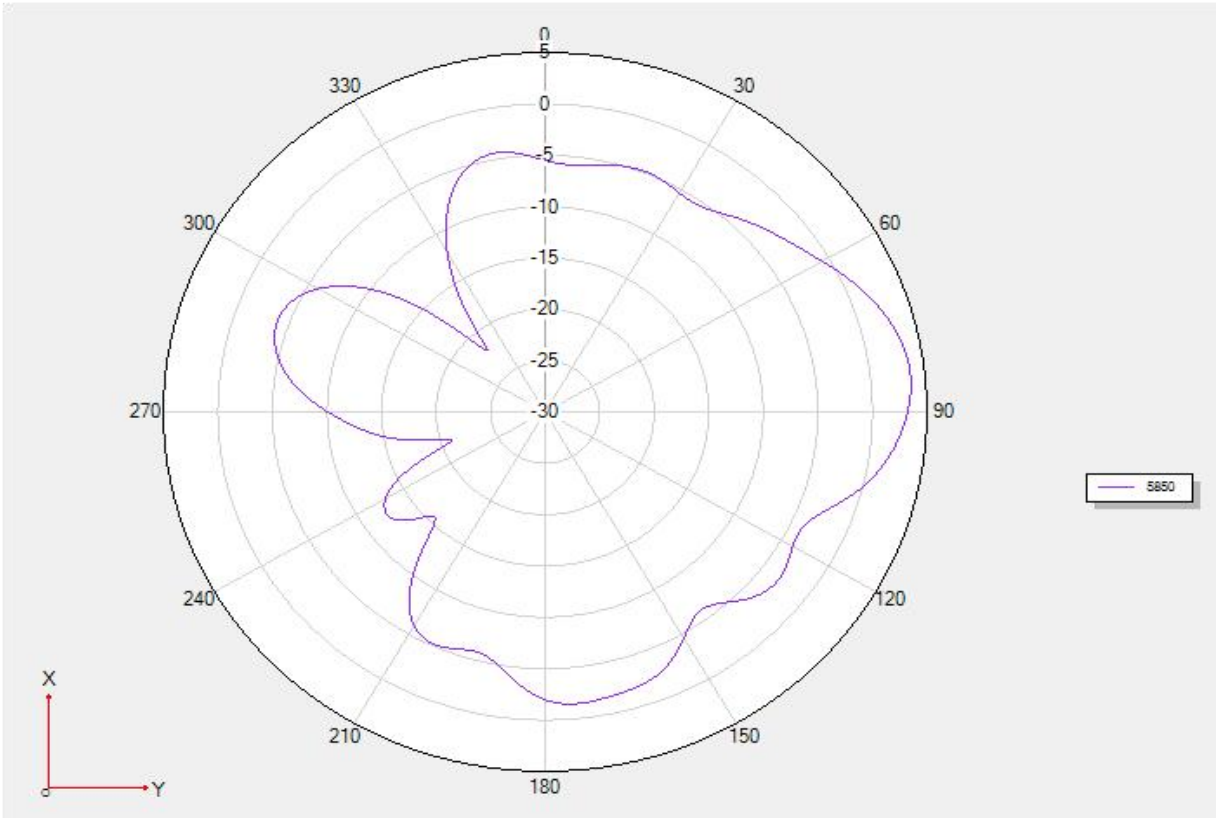


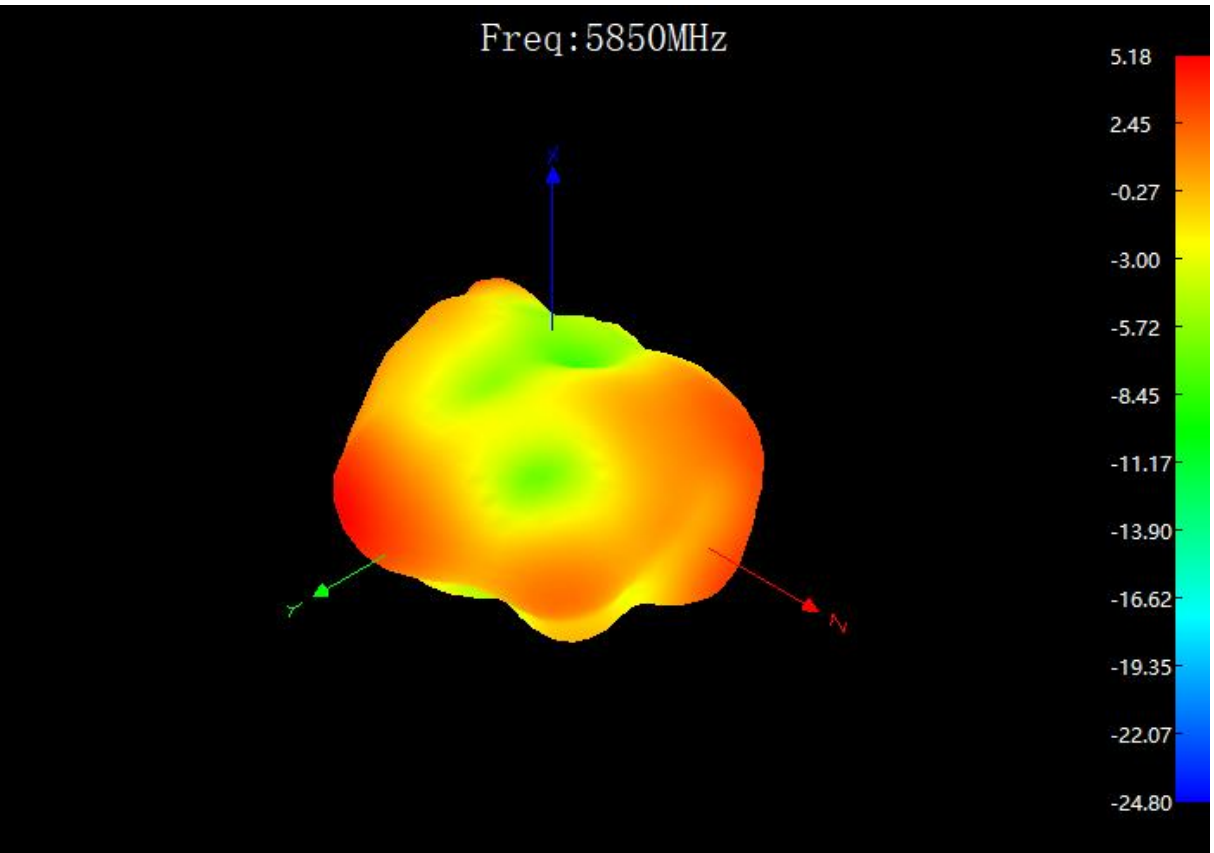
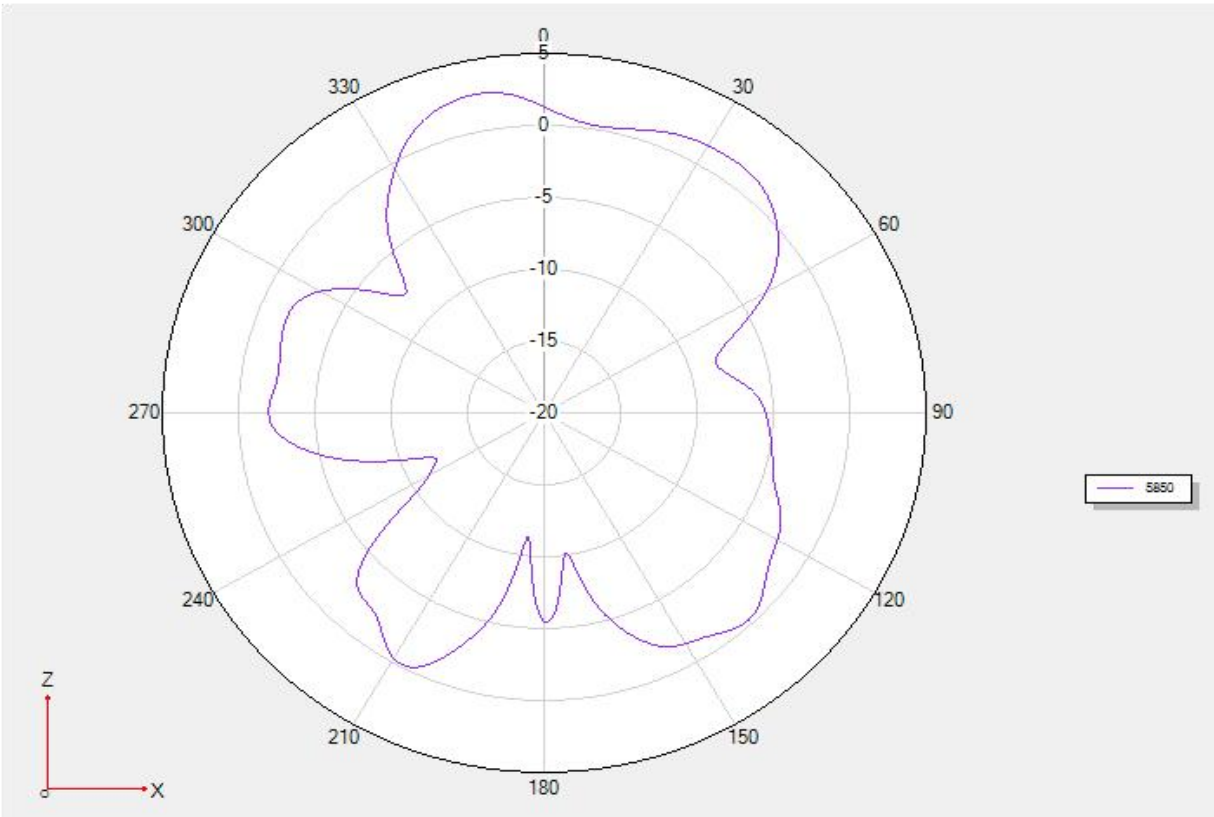
5750.00MHz



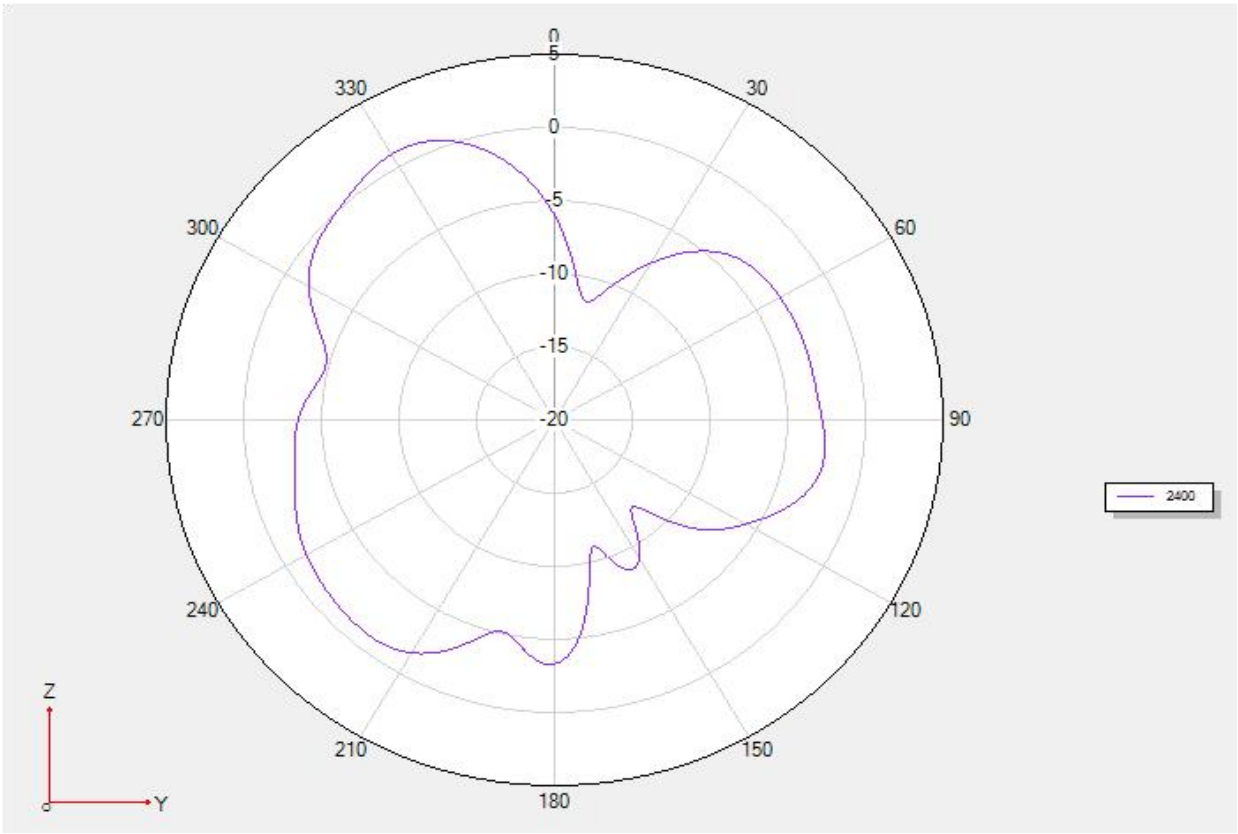
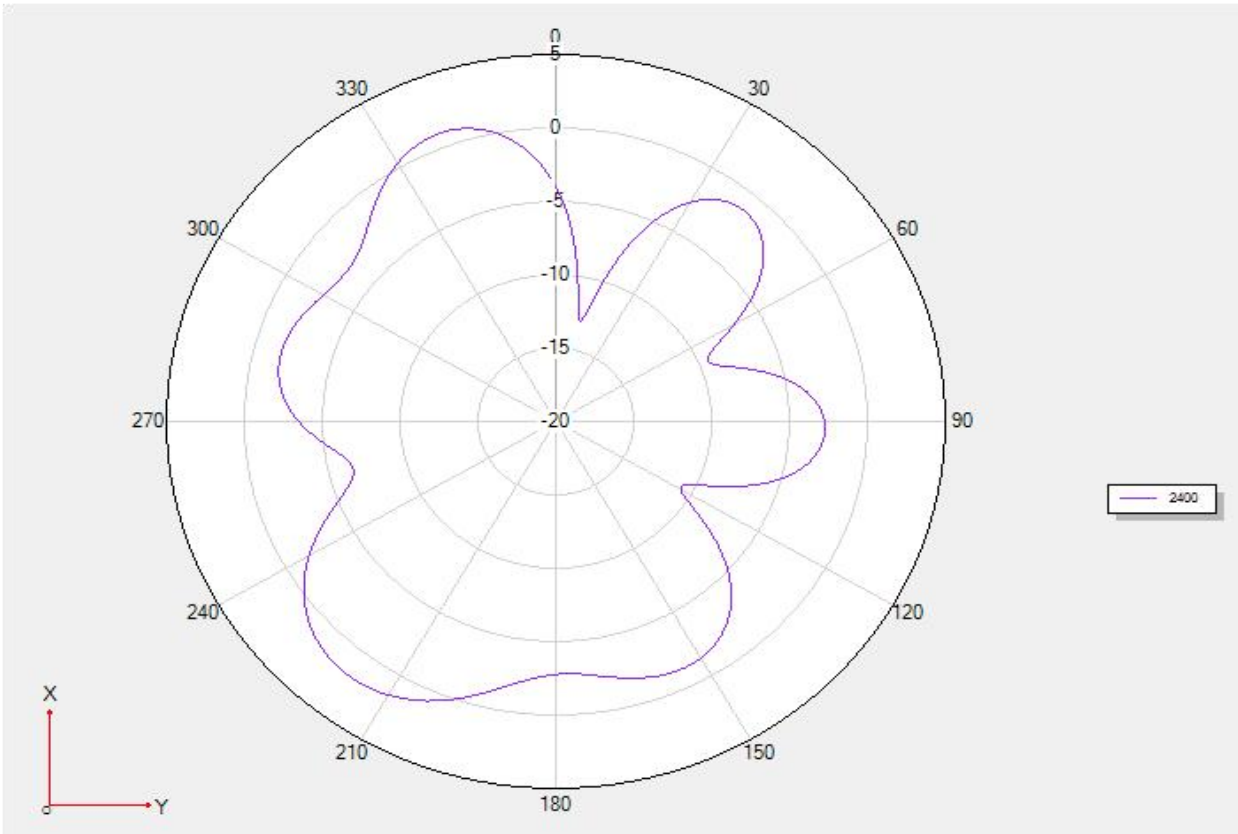


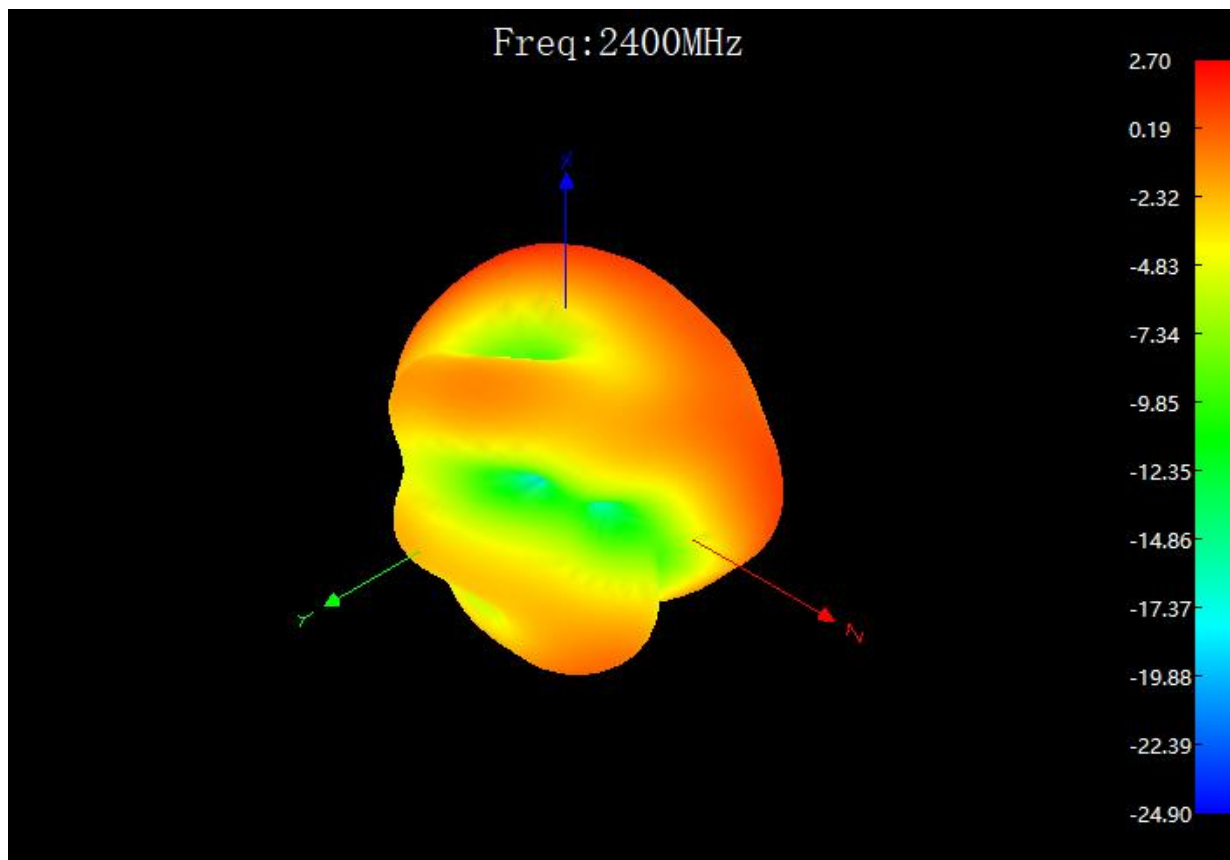
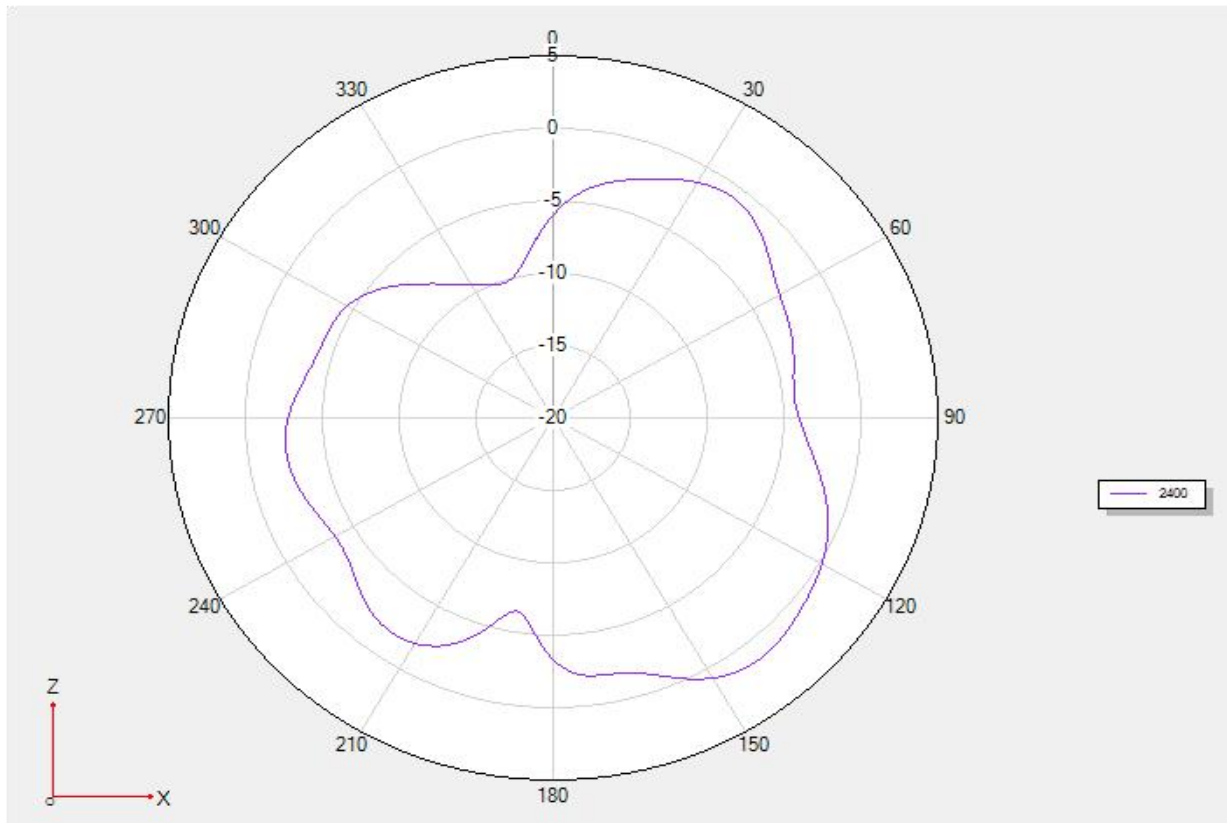
5850.00MHz



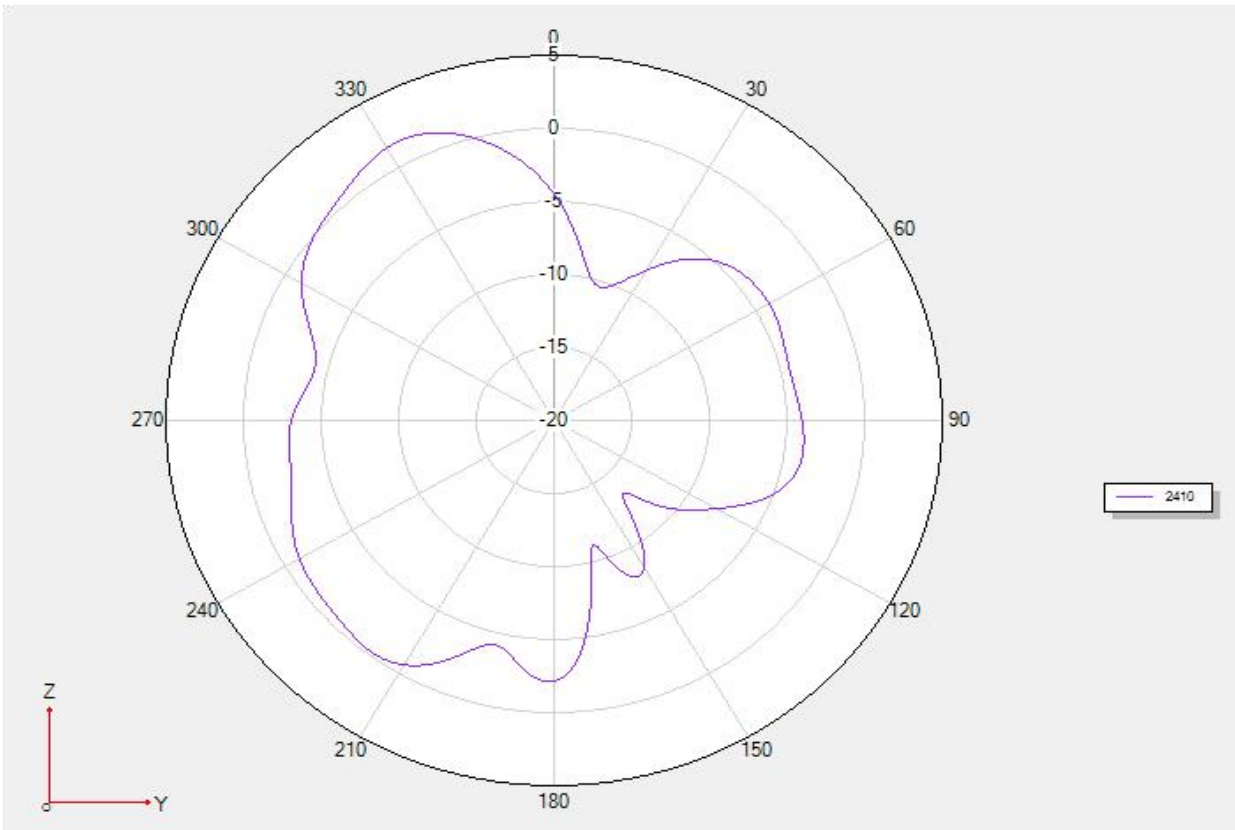


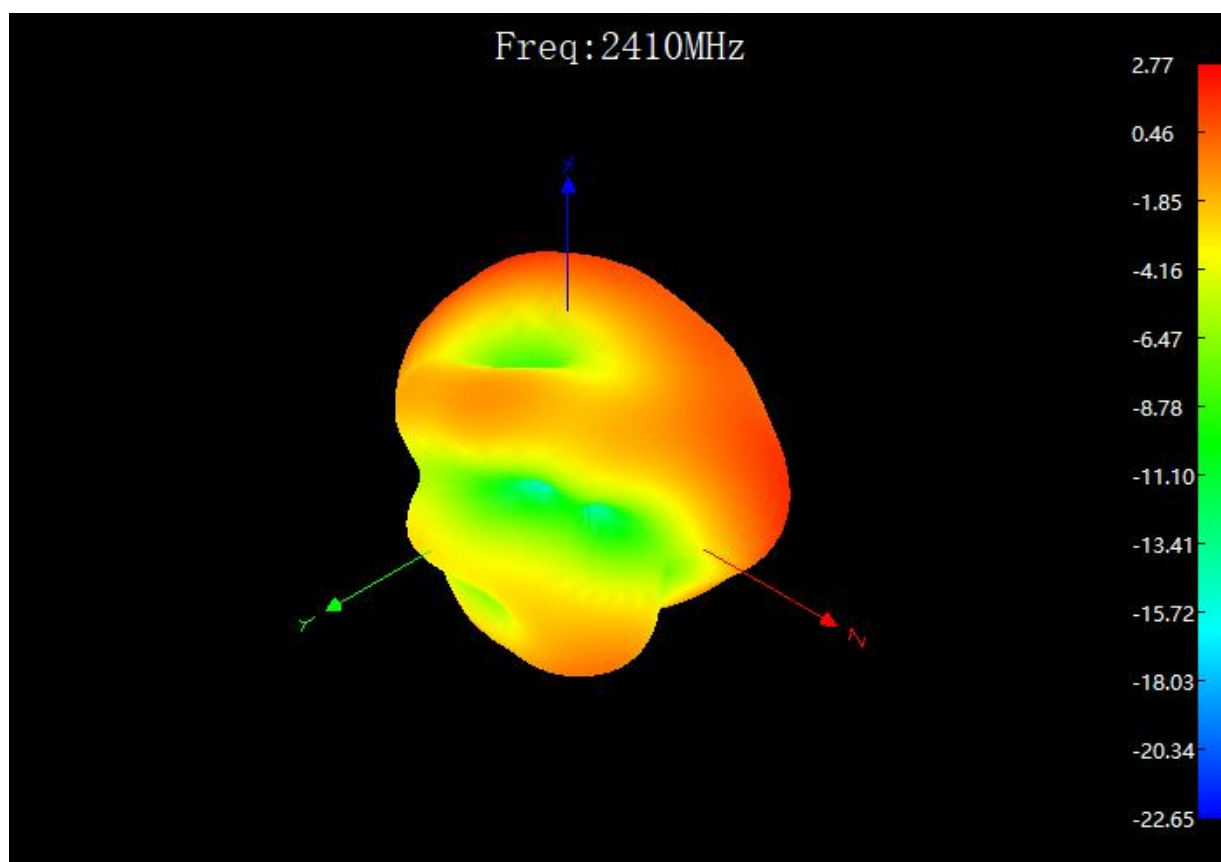
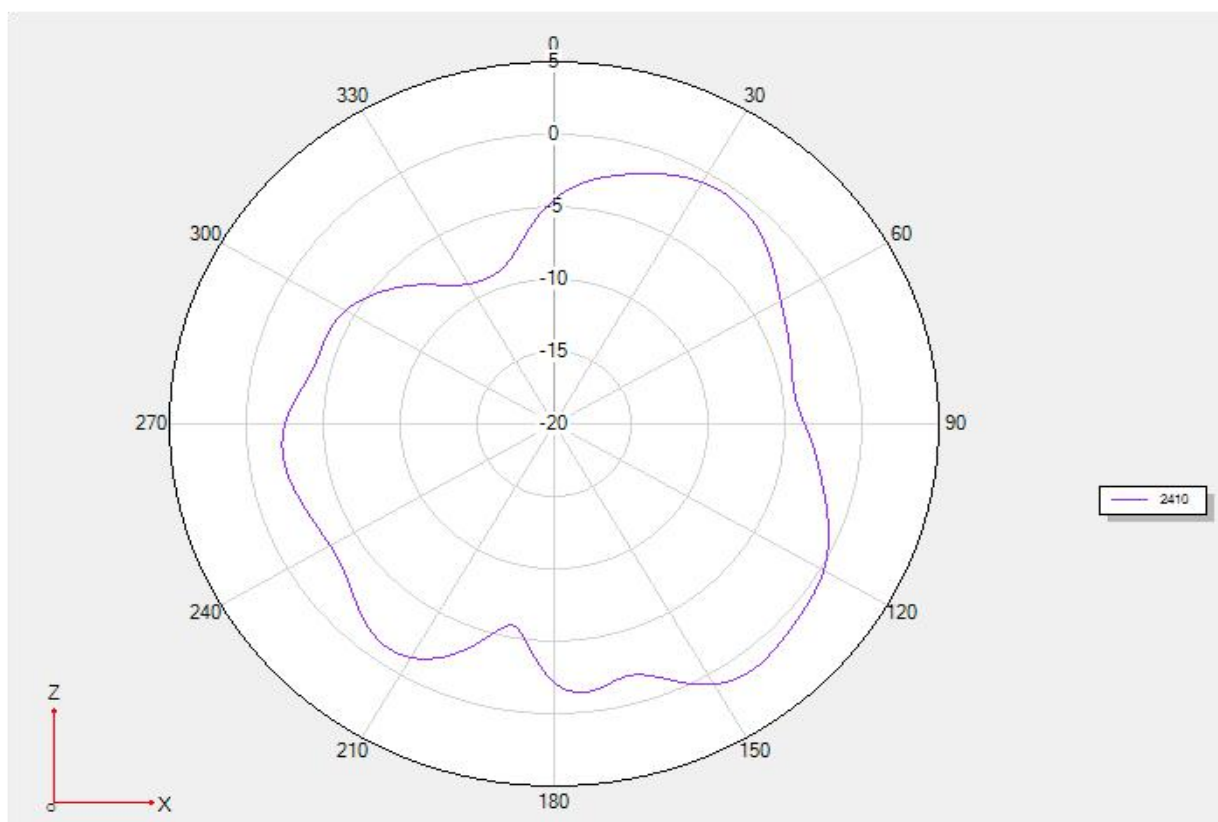
Ant. 3
2400.00MHz



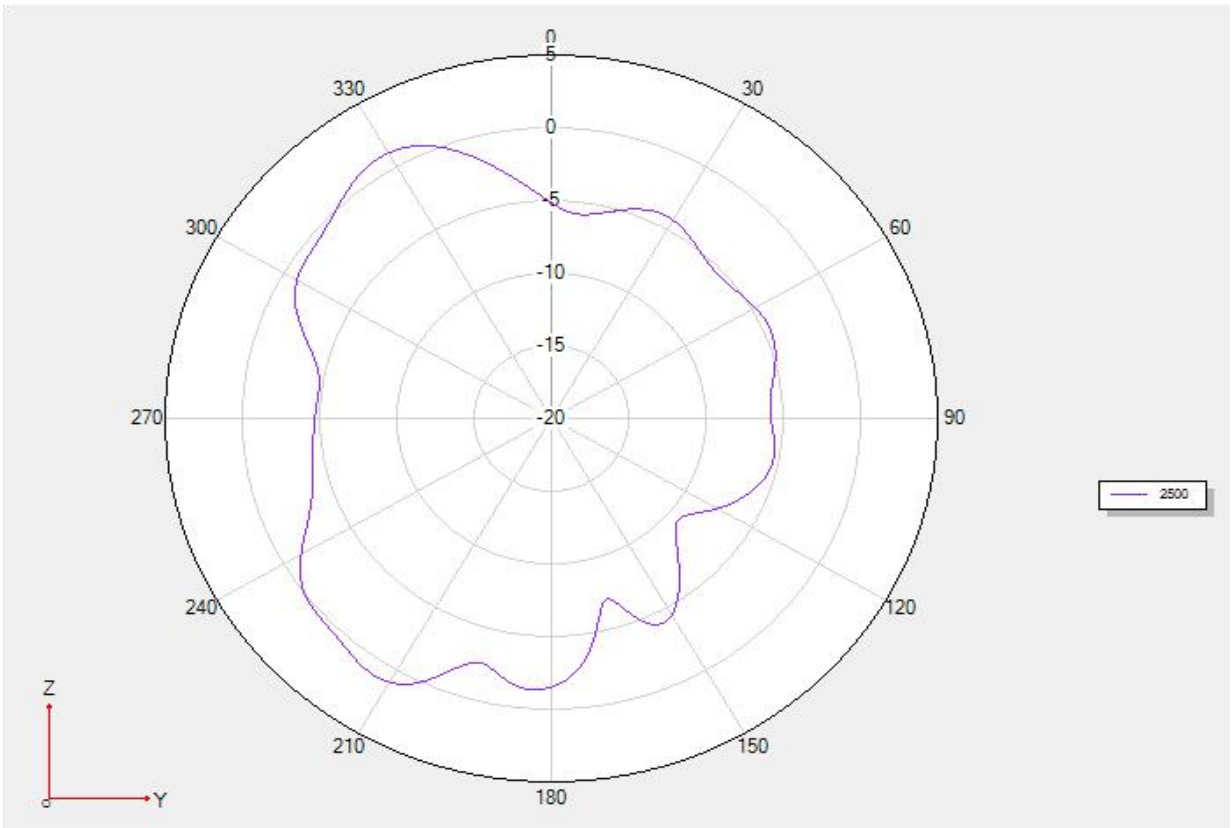
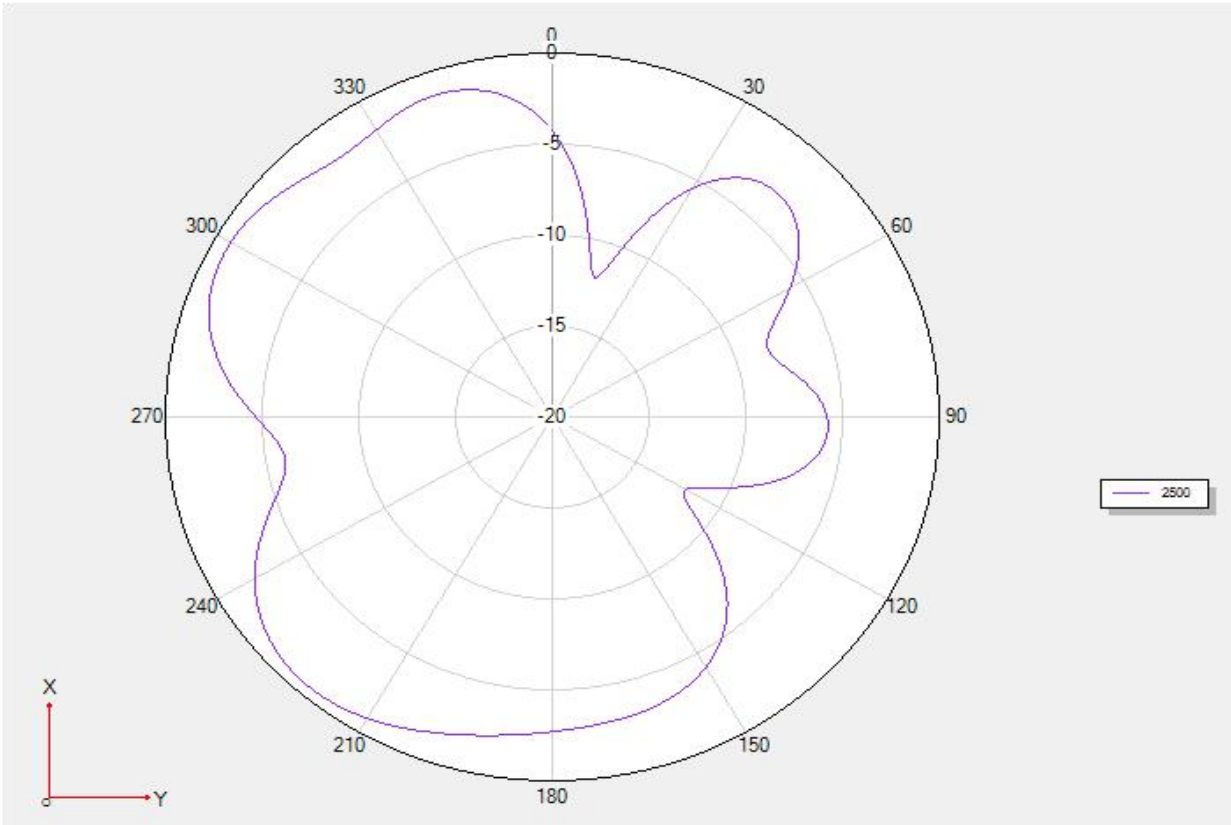


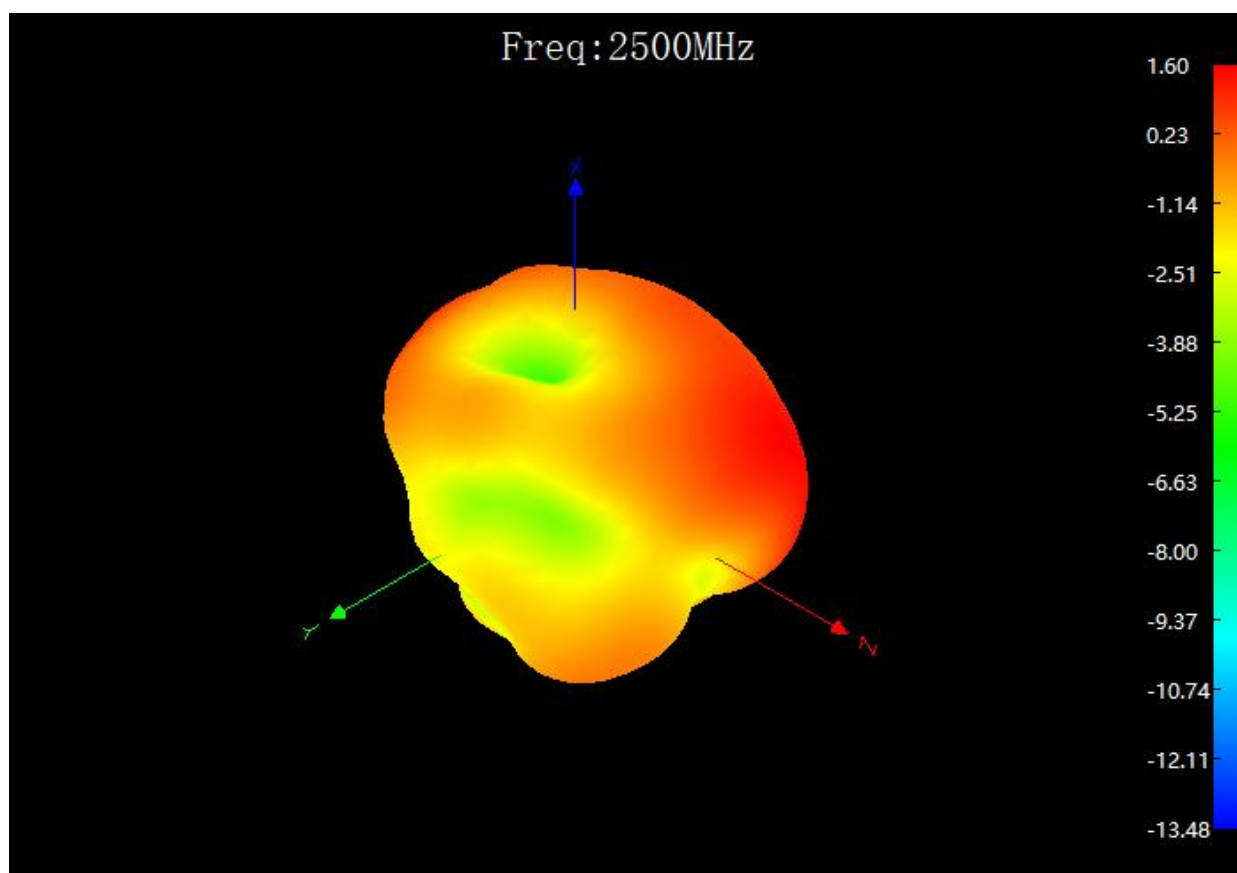
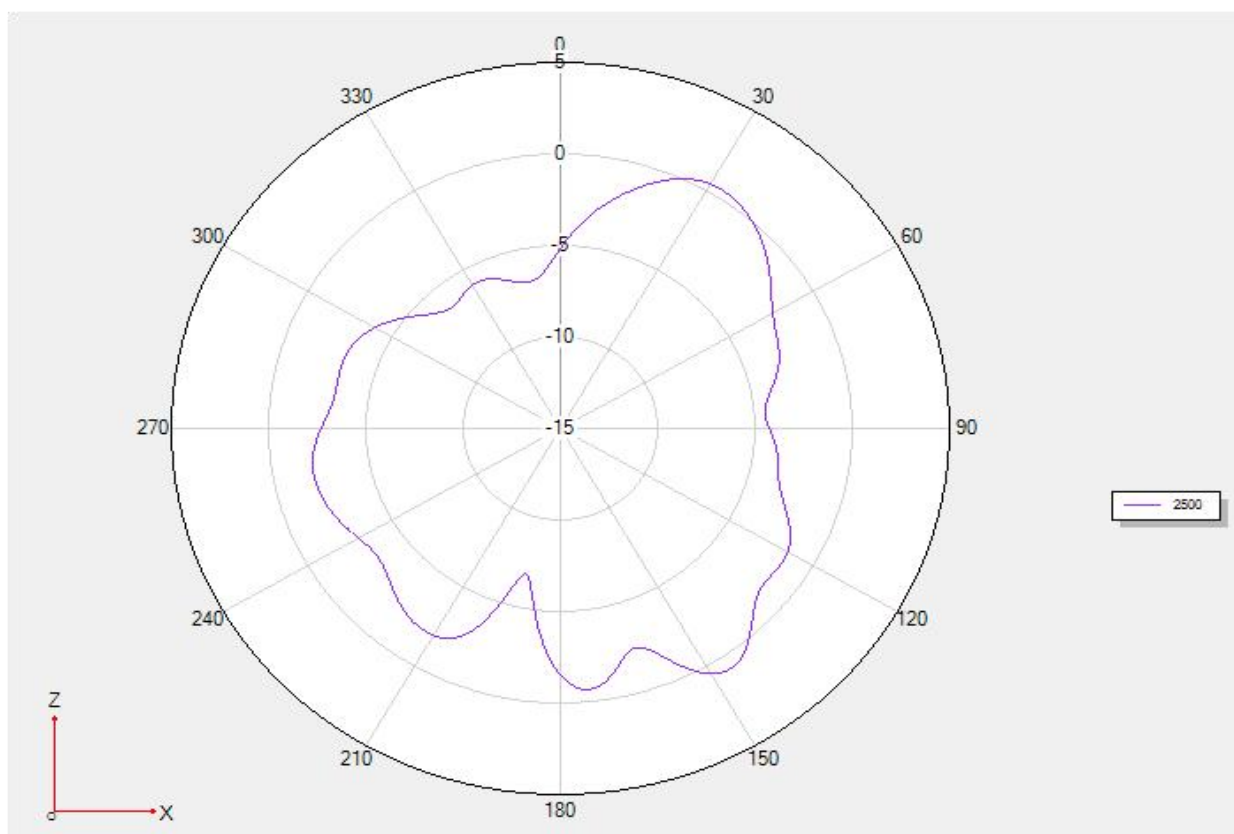
2410.00MHz





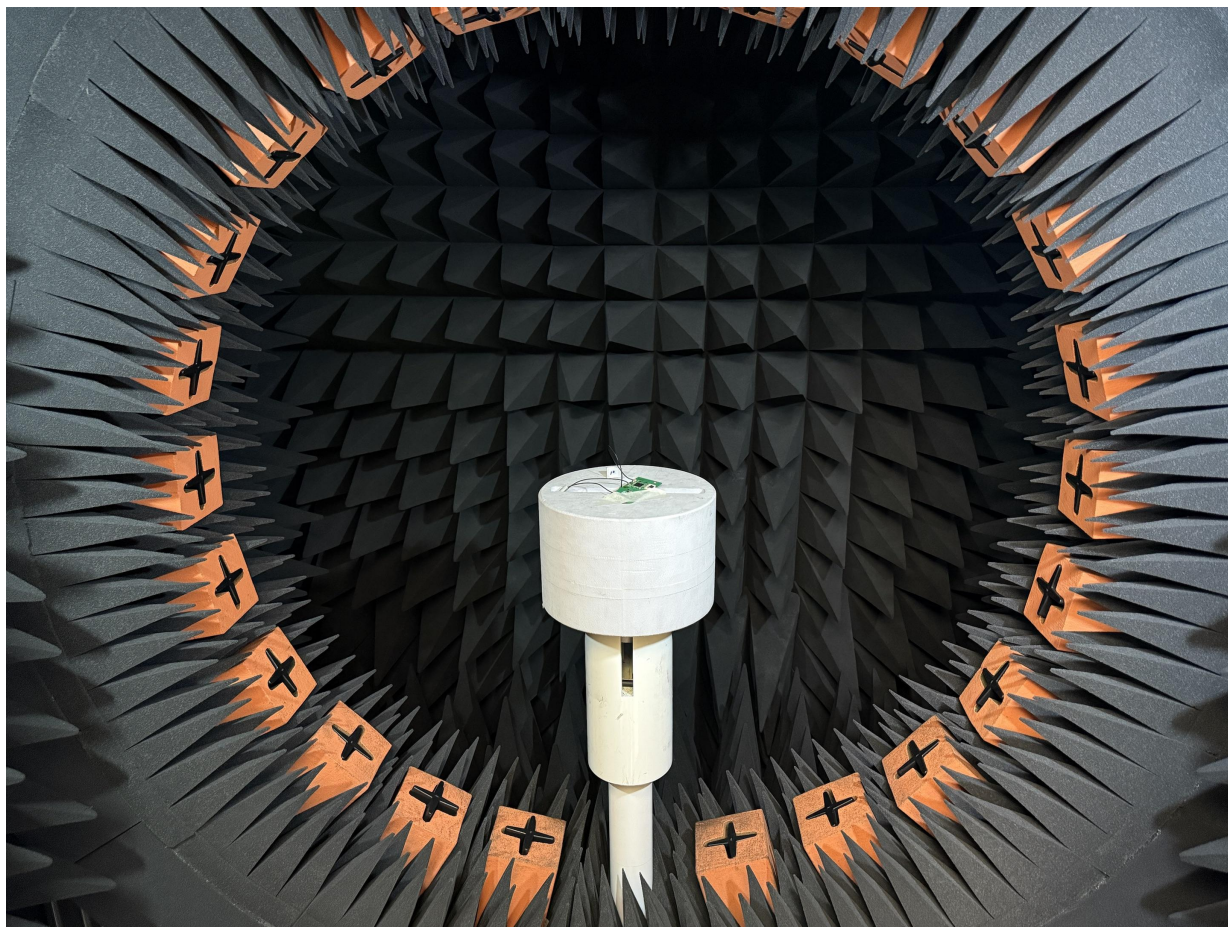
2500.00MHz



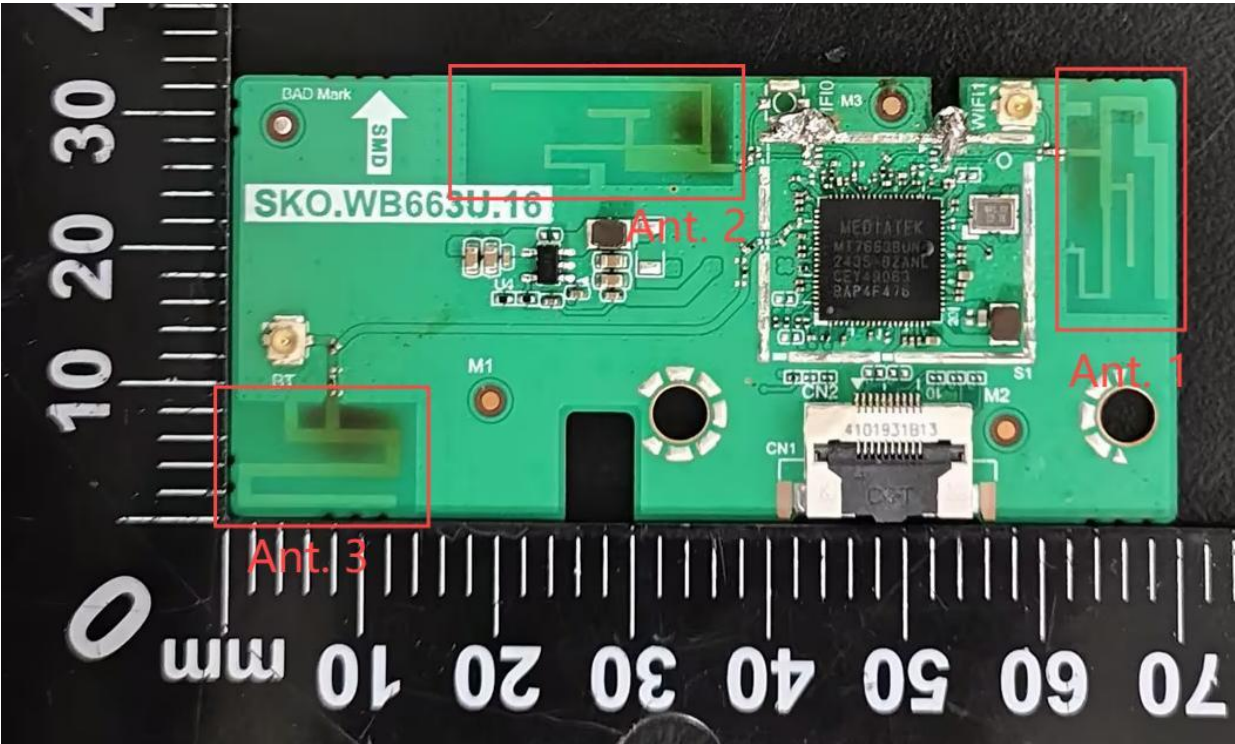
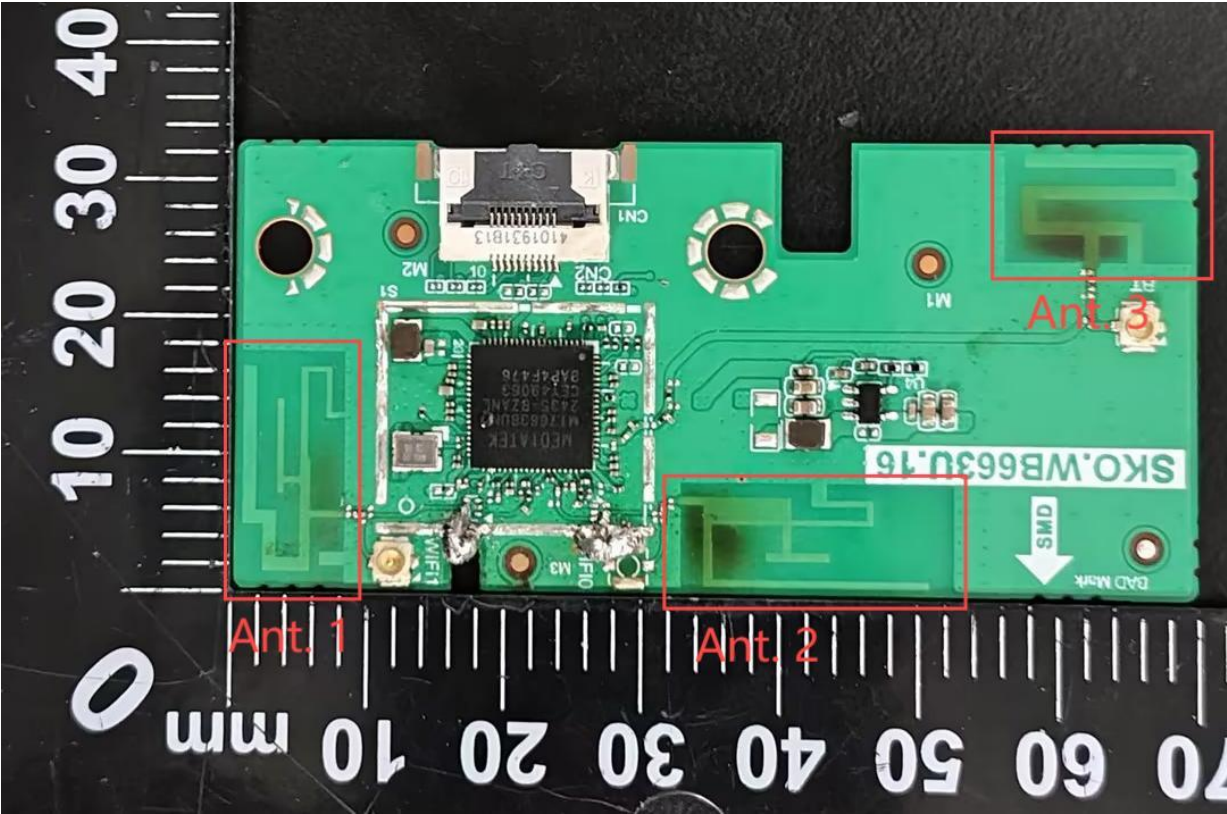


Annex C Test Setup Photo

1. Test environment



2. EUT



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