



REPORT No.: SZ24070137E01

TEST REPORT

APPLICANT : AXPPO Technology Inc.

PRODUCT NAME : BP1048 Bluetooth PCB ANTENNA

MODEL NAME : 00FX1140-01

TRADE NAME : TM

BRAND NAME : TM

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2024-07-17

TEST DATE : 2024-07-17

ISSUE DATE : 2024-08-05



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MORLAB

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DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
2. Test Results	4
2.1. Applied Reference Documents	4
2.2. Test Conditions	4
2.3. Measurement Uncertainty	4
2.4. Test Results lists	5
Annex A Test Setup Photos	6
Annex B Figures	7
1. 2D Radiation Pattern	7
2. 3D Radiation Pattern	8
Annex C General Information	10
1.1 Identification of the Responsible Testing Laboratory	10
1.2 Identification of the Responsible Testing Location	10
1.3 Test Equipments Utilized	10
1.4 Test Software Utilized	10
Annex D EUT Photos	

Change History		
Version	Date	Reason for change
1.0	2024-08-05	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	AXPRO Technology Inc.
Applicant Address:	9F., No. 217, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231633, Taiwan
Manufacturer:	AXPRO Technology Inc.
Manufacturer Address:	9F., No. 217, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231633, Taiwan

1.2. Equipment Under Test (EUT) Description

Wireless Type	Bluetooth
Frequency	2402MHz-2480MHz
Antenna Type	PCB Antenna
Product HW Version	N/A
Product SW Version	N/A
IMEI	N/A
Sample No.	2#

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna Measurements

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity(%):	25 - 75
Temperature(°C):	10 - 30

2.3. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

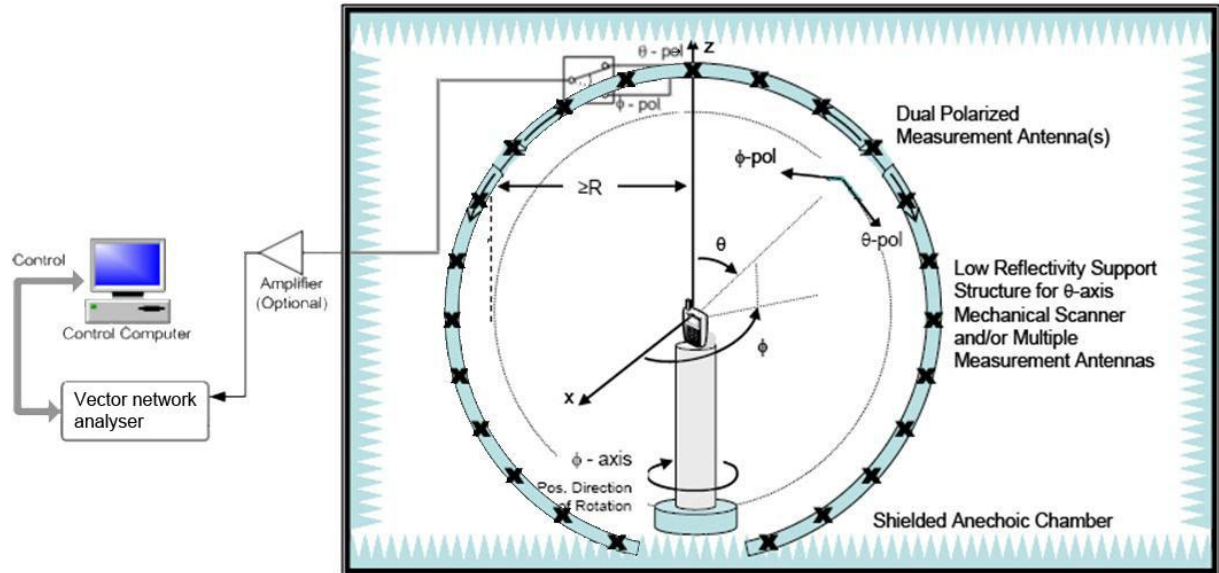


2.4. Test Results lists

2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2402	-3.04
2410	-3.27
2420	-3.72
2430	-4.09
2440	-4.07
2450	-4.05
2460	-4.04
2470	-4.32
2480	-4.52

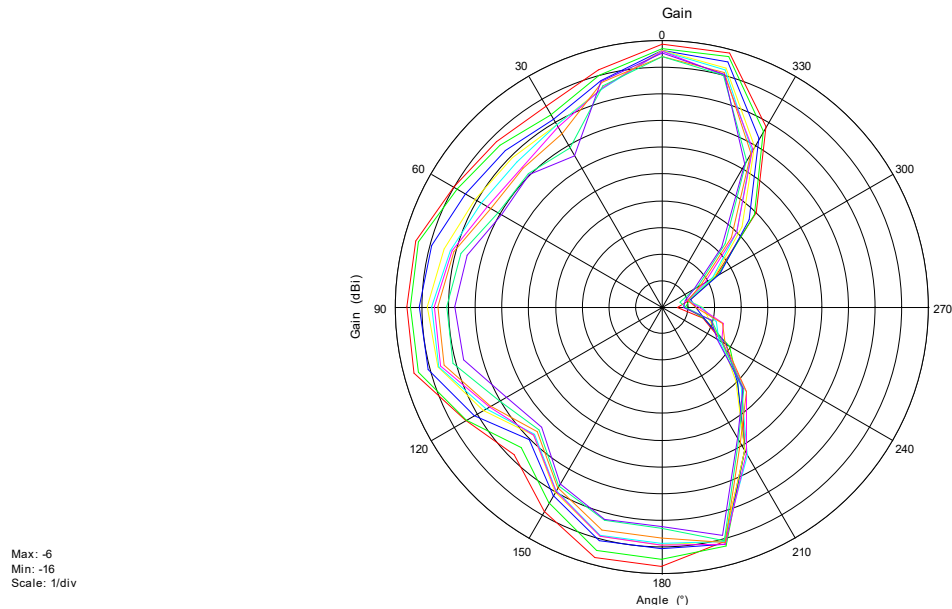
Annex A Test Setup Photos



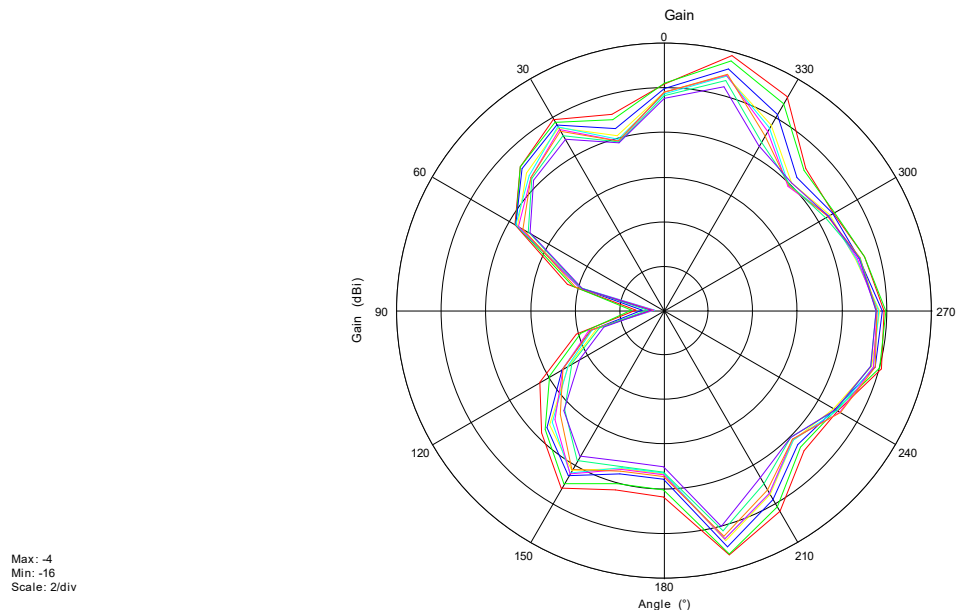


Annex B Figures

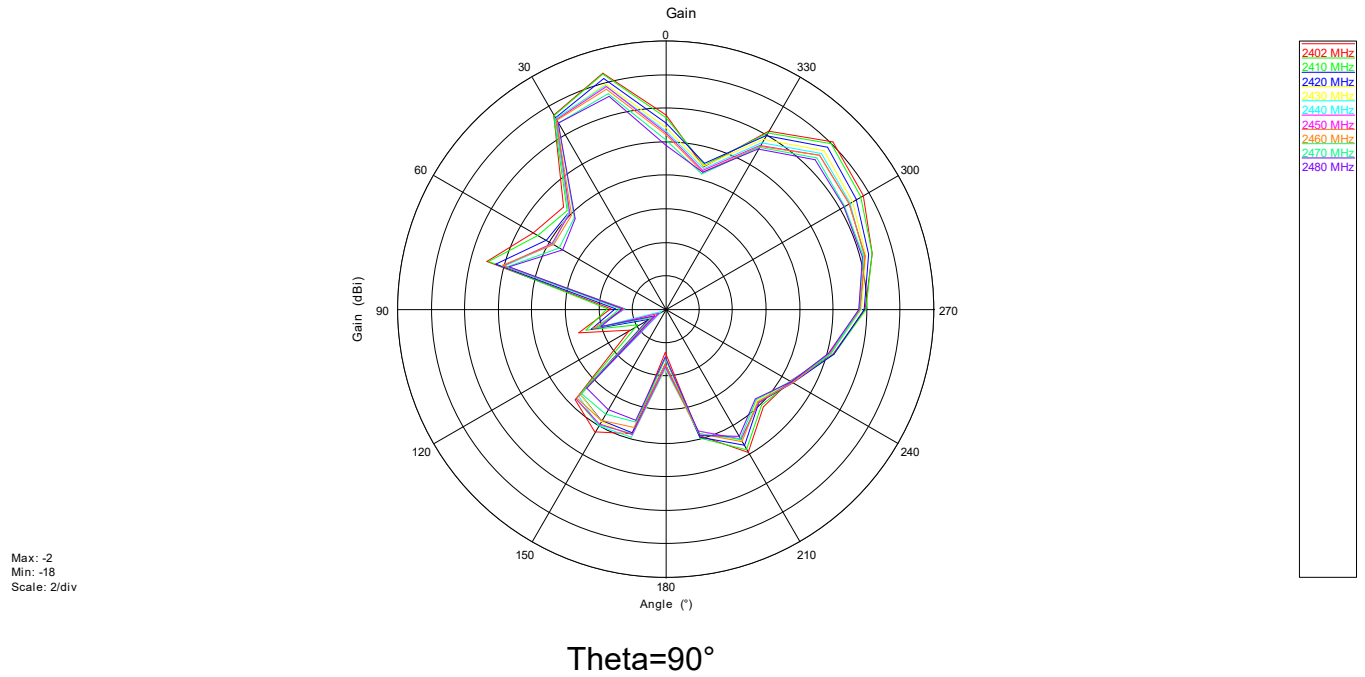
1. 2D Radiation Pattern



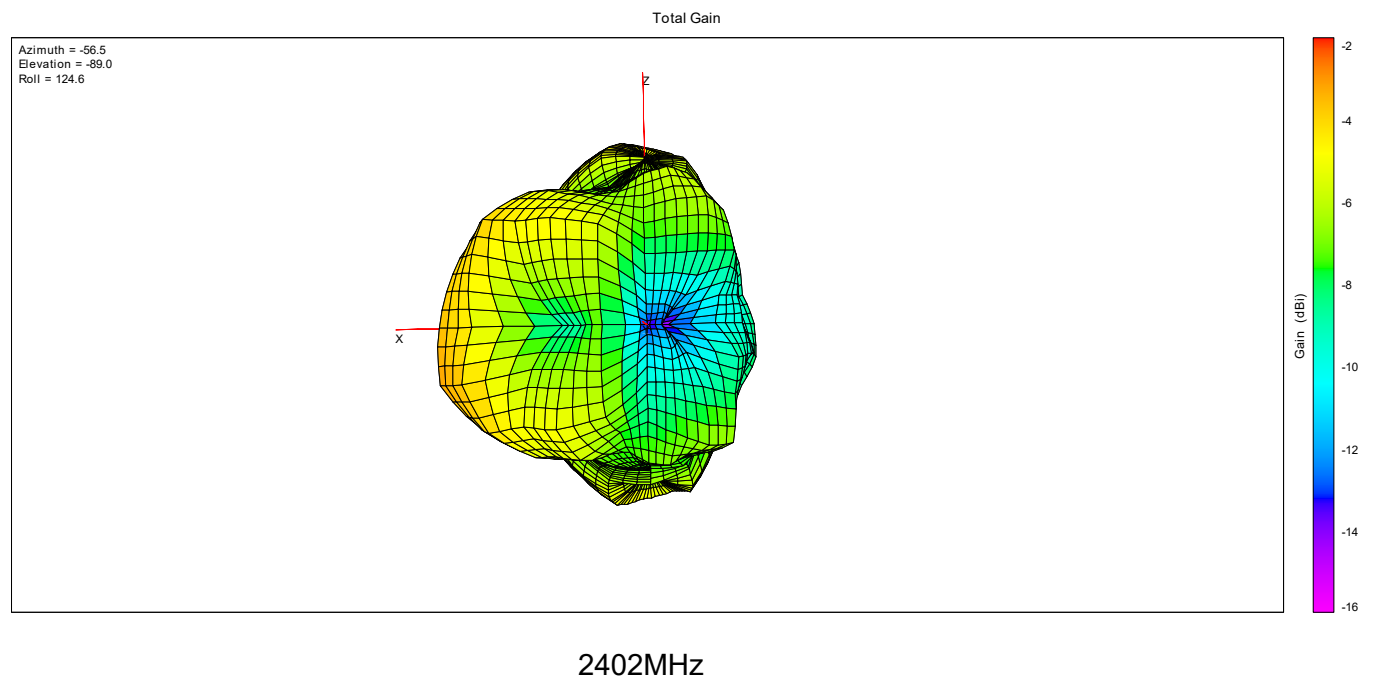
Phi=0°

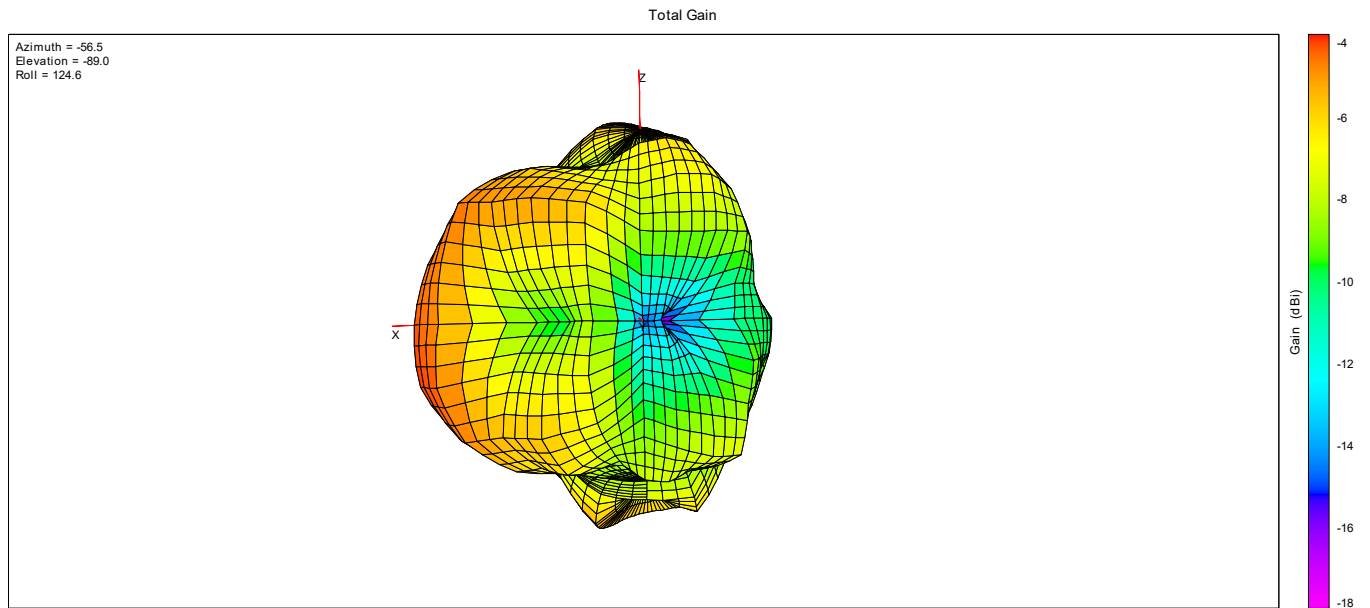


Phi=90°

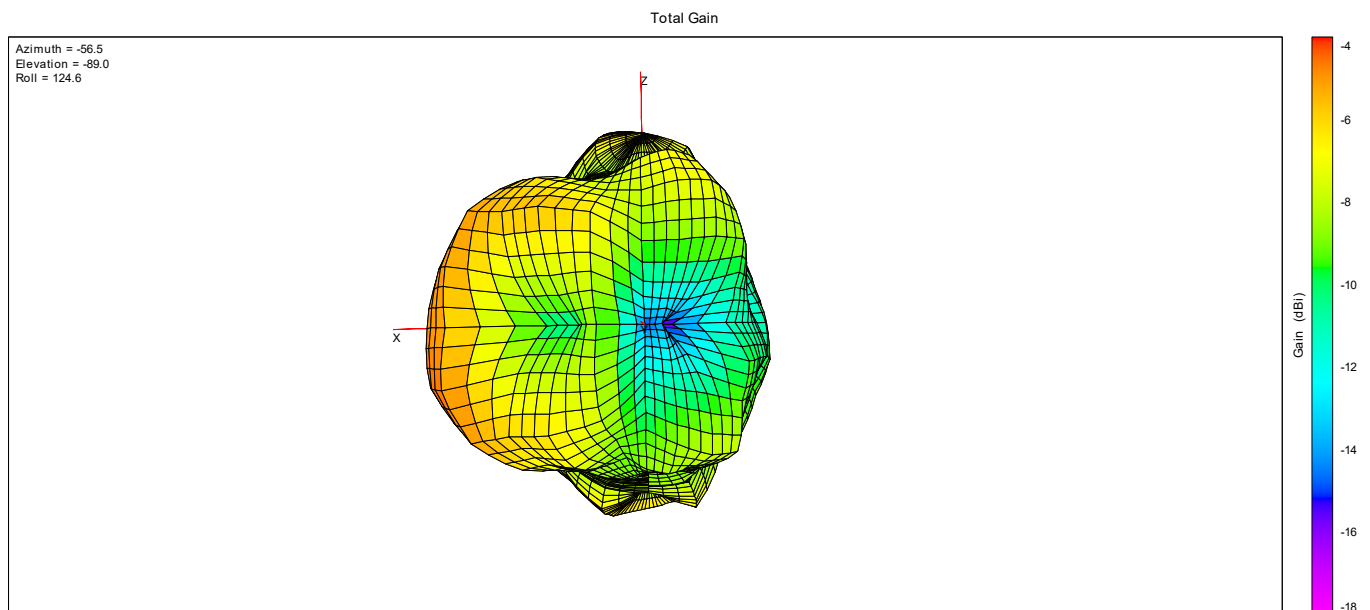


2. 3D Radiation Pattern





2440MHz



2480MHz



Annex C General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
Telephone:	+86 755 36698555
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1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

1.3 Test Equipments Utilized

No.	Equipement Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2024.05.30	2025.05.29
2	OTA Chamber	TJ2235-Q1793	AMS-8923 -150	ETS	2022.11.30	2025.11.29

1.4 Test Software Utilized

No.	Software Name	Serial No.	Version	Manufacturer
1	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS

Note:The Main report is end here and the other Annex D will be submitted separately.

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