



REPORT No.: SZ23100029E10

TEST REPORT

APPLICANT : Lierda Science & Technology Group Co., Ltd.

PRODUCT NAME : EB55 BLE Module

MODEL NAME : Main model:L-BTMEB55-G0NP4
Series models:L-BTMEB55-04594-01

TRADE NAME : Lierda

BRAND NAME : Lierda

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2023-10-09

TEST DATE : 2023-10-11

ISSUE DATE : 2023-11-01



Edited by:

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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2023-11-01	First edition

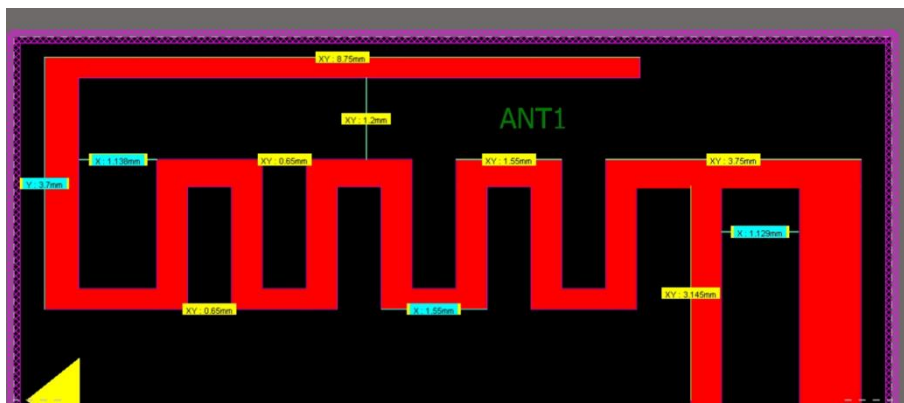


Note: Provide by applicant.

Applicant:	Lierda Science & Technology Group Co., Ltd.
Applicant Address:	Room 301,Building No.1,Lierda IoT Park, No.1326, West Wenyi Road, Hangzhou, Zhejiang Prov.,China
Manufacturer:	Lierda Science & Technology Group Co., Ltd.
Manufacturer Address:	Room 301,Building No.1,Lierda IoT Park, No.1326, West Wenyi Road, Hangzhou, Zhejiang Prov.,China

Wireless Type	N/A
Test frequency band	2400MHz-2500MHz
IMEI	N/A
Product HW Version	V01
Product SW Version	Rev01
Sample No.	2#

Dimension:



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 to give the judgment result based on the 95% Confidence intervals.

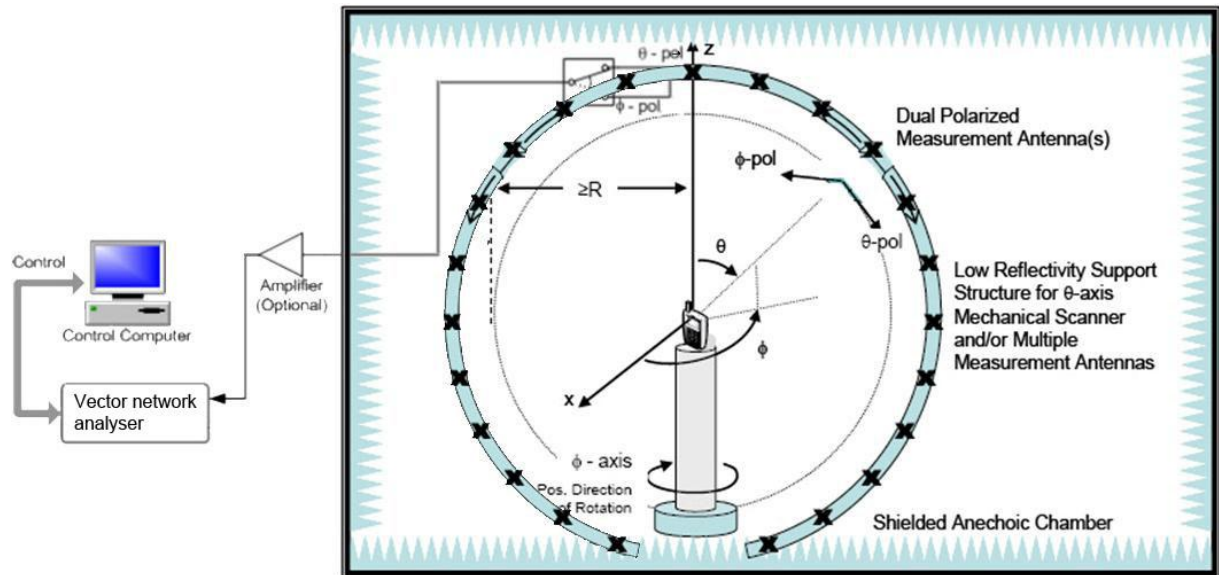


2.4. Test Results lists

2.4.1. Gain

Frequency	Gain(dBi)
2400MHz	1.58
2410MHz	2.33
2420MHz	2.44
2430MHz	1.74
2440MHz	1.68
2450MHz	1.51
2460MHz	1.45
2470MHz	1.69
2480MHz	1.91
2490MHz	2.47
2500MHz	2.96

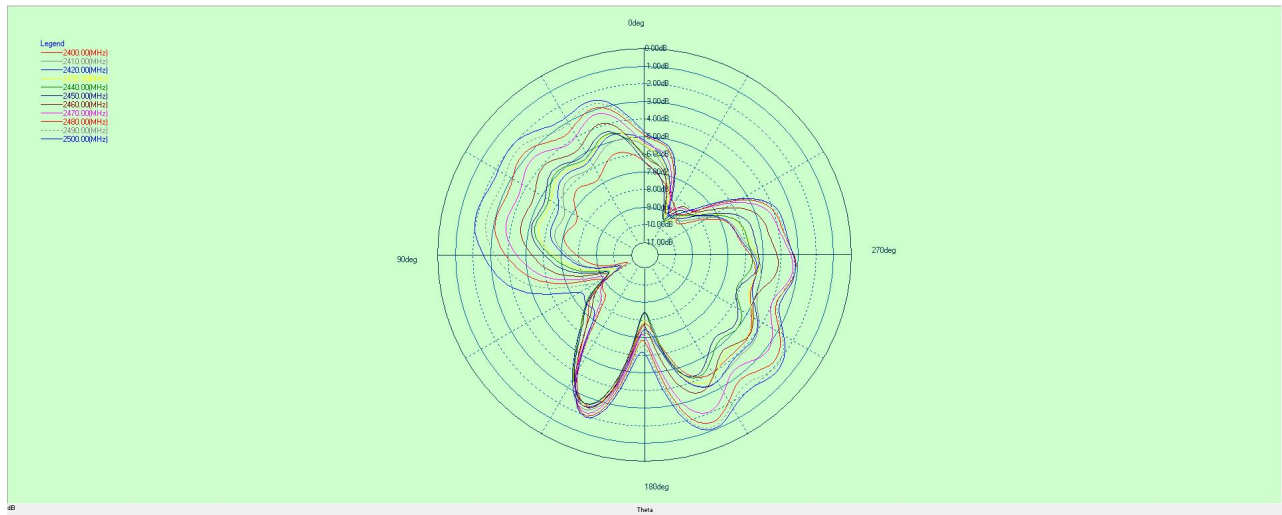
Annex A Test Setup Photos



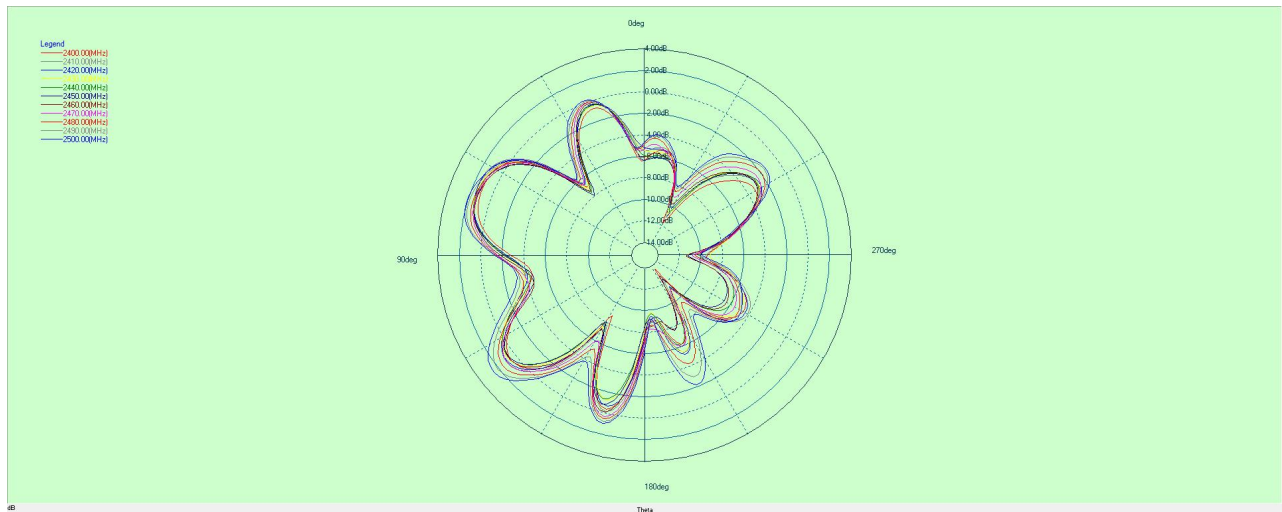
Annex B Figures

1. 2D Radiation Pattern

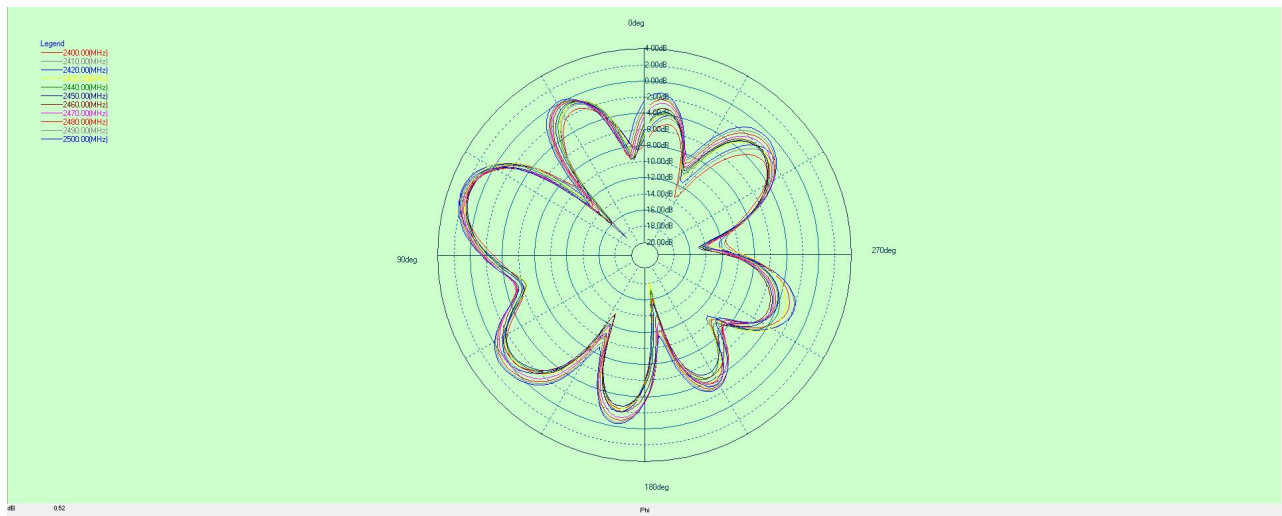
Phi=0°



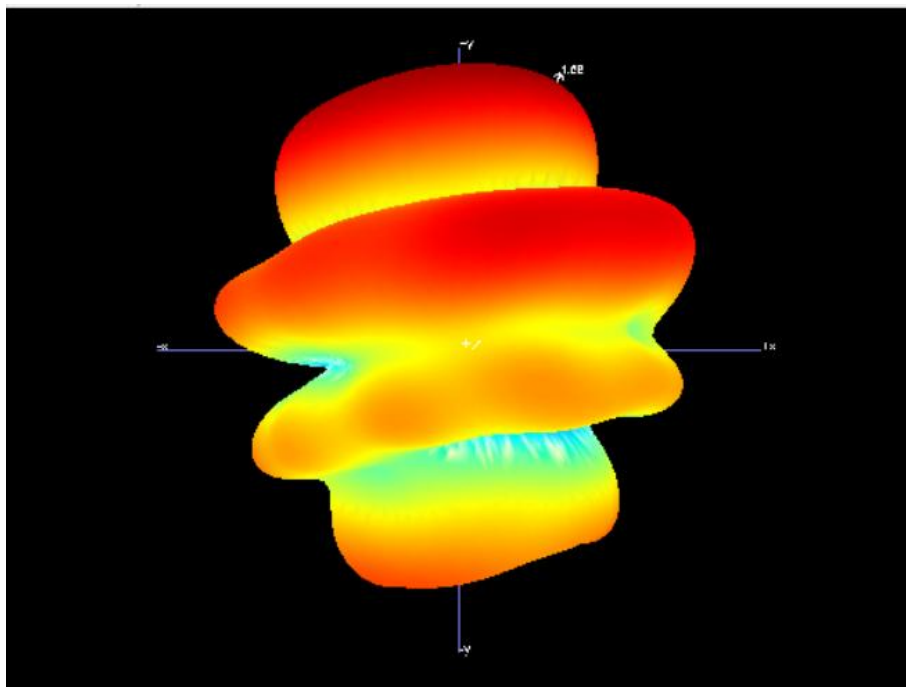
Phi=90°



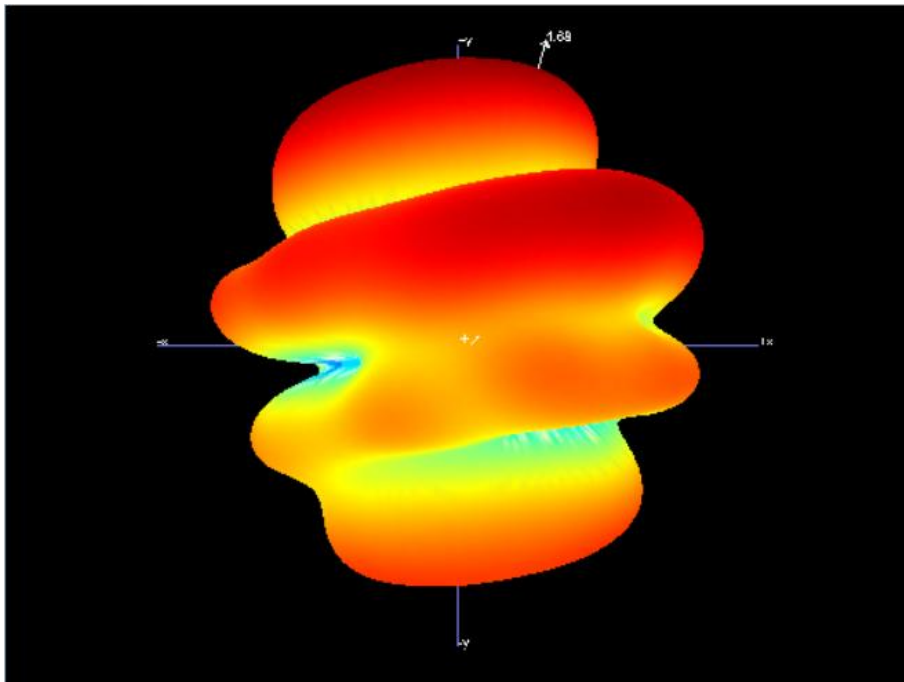
Theta=90°



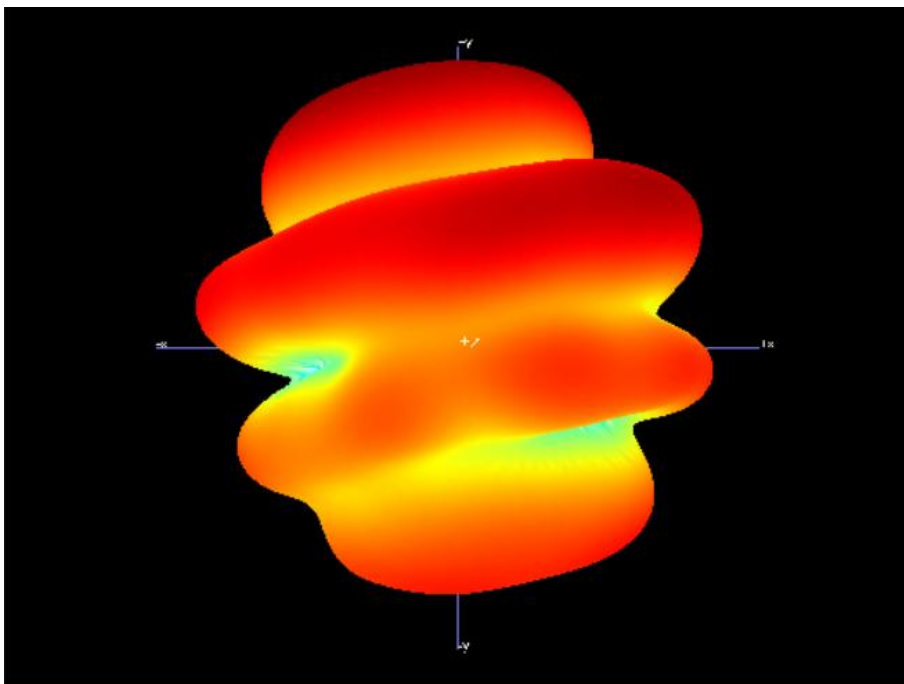
2. 3D Radiation Pattern



2400MHz



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.	Equipment Name	Serial NO.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Vector Network Analyzer	MY46214666	E5071C	Agilent	2023.02.09	2024.02.08
2	OTA Chamber	N/A	SG24	Satimo	2021.01.12	2024.01.11
3	SatEnv	N/A	2.0.1.5 build 12	Satimo	N/A	N/A
4	SPM	N/A	1.11	Satimo	N/A	N/A

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

————— END OF MAIN REPORT —————