



REPORT No. : SZ17110105E01

TEST REPORT

APPLICANT : Cherub Technology Co., Ltd

PRODUCT NAME : B-2 wireless systems

MODEL NAME : B-2

TRADE NAME : NUX

BRAND NAME : NUX

STANDARD(S) : IEEE149-1979
GB/T 9410-2008

TEST DATE : 2017-11-15

ISSUE DATE : 2017-11-15



Tested by:


Chi Shide(Test Engineer)

Approved by:


Andy Yeh(Technical Director)

NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

MORLAB

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Fax: 86-755-36698525

Http://www.morlab.cn

E-mail: service@morlab.cn





DIRECTORY

1. Technical Information	3
1.1. Applicant,Manufacturer and Factory 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. Test Results lists	4
Annex A Test Setup	6
Annex B Figures	7
Annex C Photographs	16
Annex D General Information	20

Change History		
Issue	Date	Reason for change
1.0	2017-11-15	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant, Manufacturer and Factory Information

Applicant:	Cherub Technology Co., Ltd
Applicant Address:	Room507, Block 1, Nanhai E-Cool, No. 6 Xinghua Road, Shekou, Nanshan District, Shenzhen City, Guangdong Province, China, 518067
Manufacturer:	N/A
Manufacturer Address:	N/A
Factory:	N/A
Factory Address:	N/A

1.2. Equipment Under Test (EUT) Description

Frequency:	2400MHz-2500MHz
Dimensions:	N/A
Hardware Version:	N/A
Hardware Version:	N/A

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE149-1979	IEEE Standard Test Procedures for Antennas
2	GB/T 9410-2008	General specification for antennas used in the mobile communications

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity:	15 ... 75 %
Temperature:	+10 °C to +30 °C

2.3. Test Results lists

2.3.1. Gain and Efficiency

Frequency	Gain(dBi)	Efficiency
2400MHz	4.10	67.44%
2410MHz	4.67	70.48%
2420MHz	4.66	74.02%
2430MHz	3.94	69.49%
2440MHz	4.32	69.90%
2450MHz	4.15	67.89%
2460MHz	3.95	69.89%
2470MHz	3.56	66.66%
2480MHz	2.86	58.21%
2490MHz	2.74	56.80%
2500MHz	2.76	56.01%

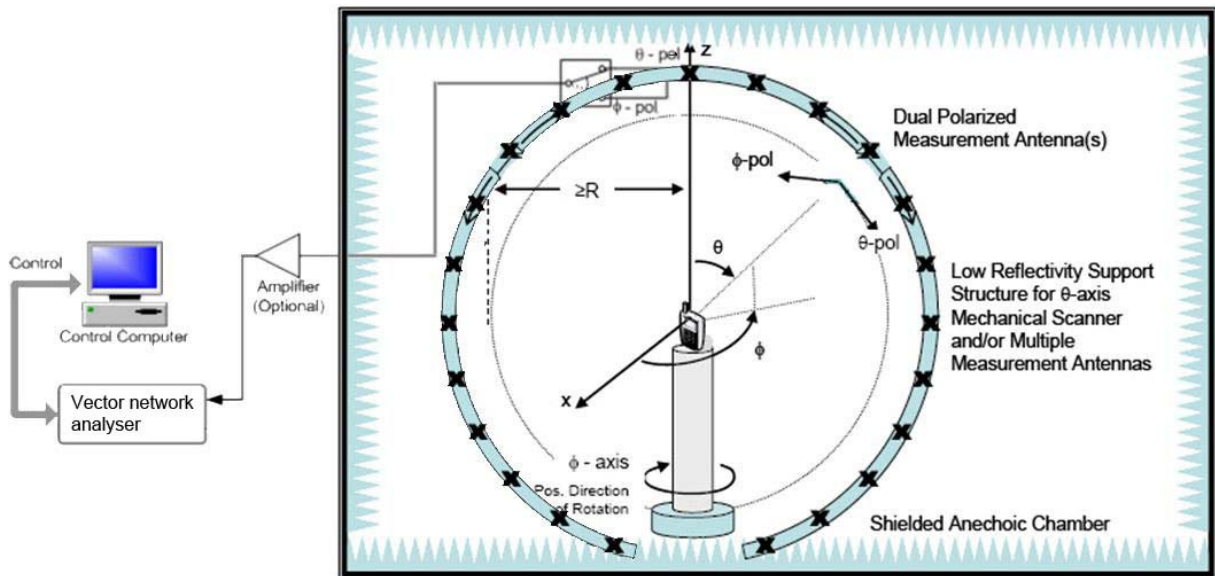


2.3.2.VSWR and Impedance

Frequency	VSWR	Impedance (Ω)
2400MHz	1.32	38.99
2450MHz	1.22	46.79
2500MHz	1.63	63.97

Annex A Test Setup

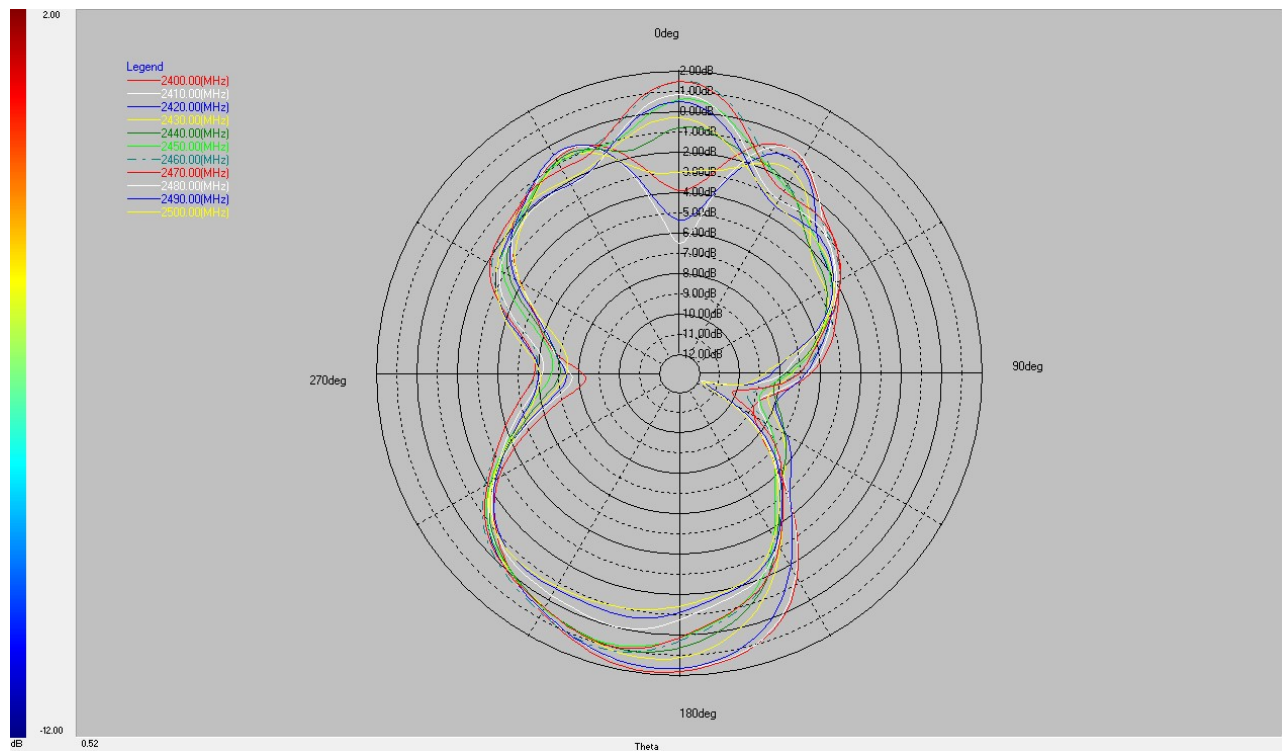
Test Setup



Annex B Figures

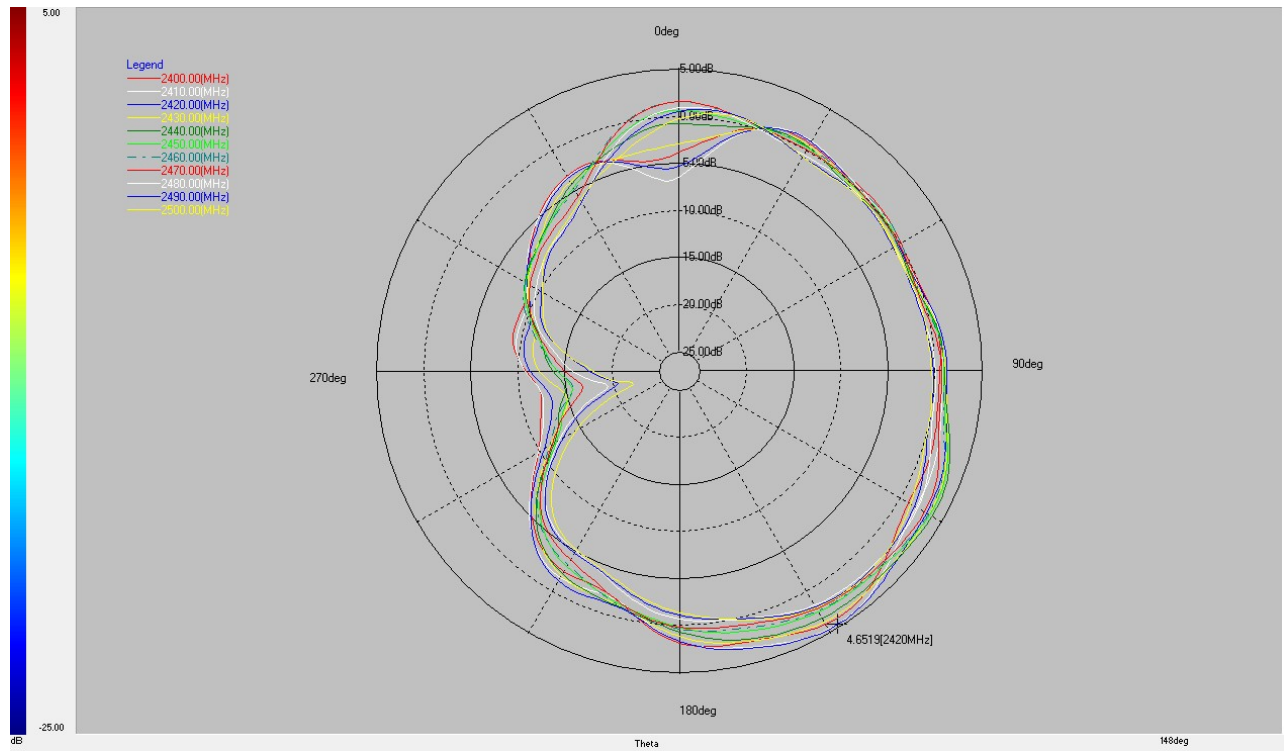
1. 2D Radiation Pattern

Phi=0°

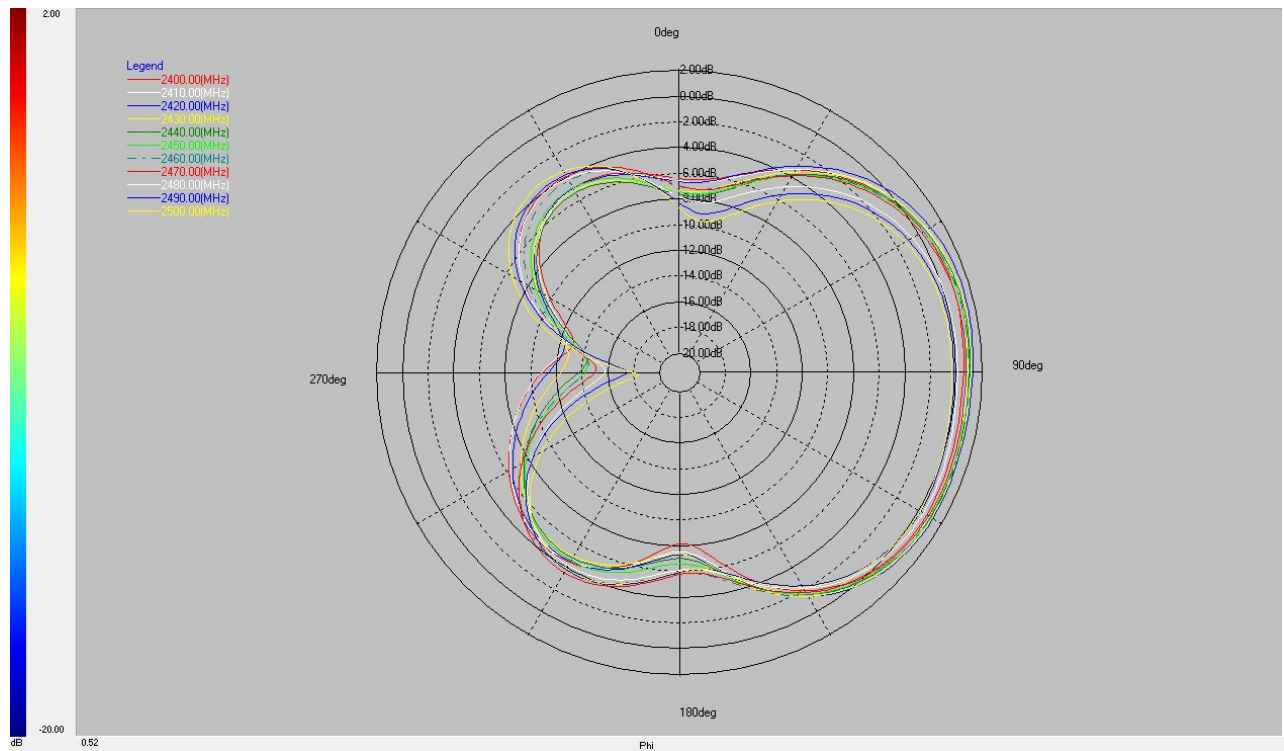




Phi=90°

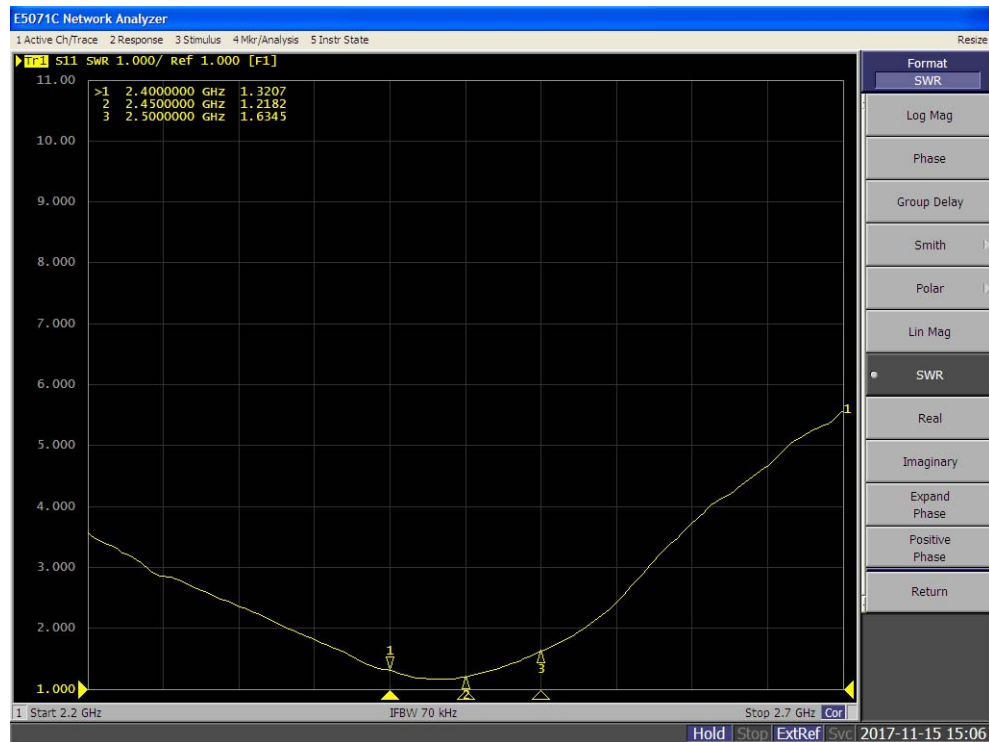


Theta=90°

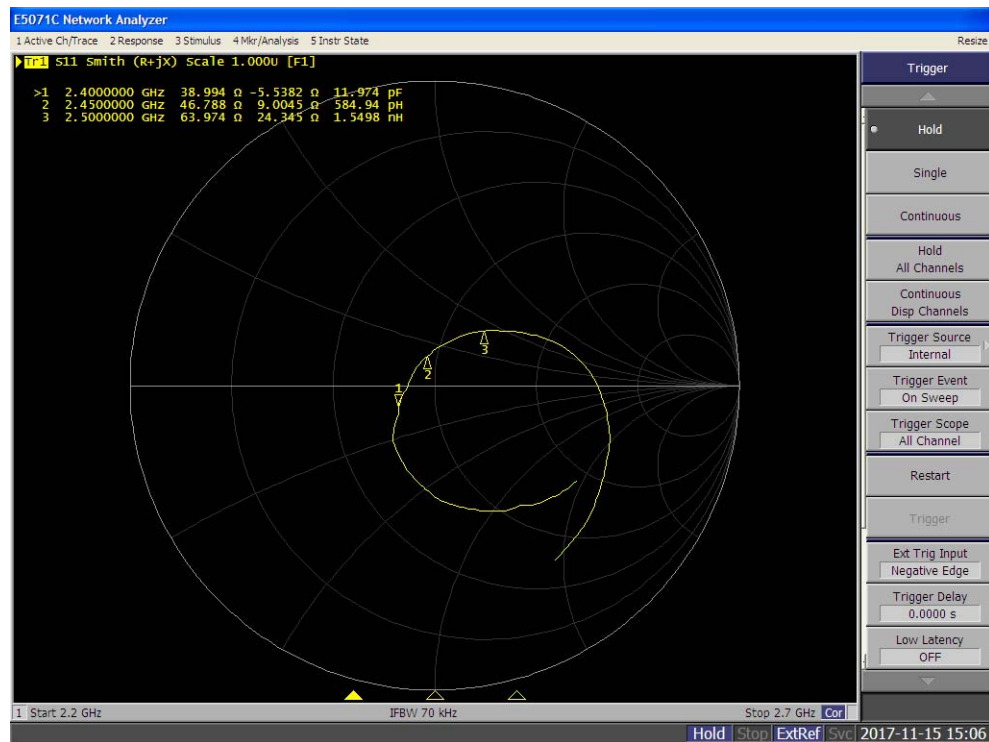




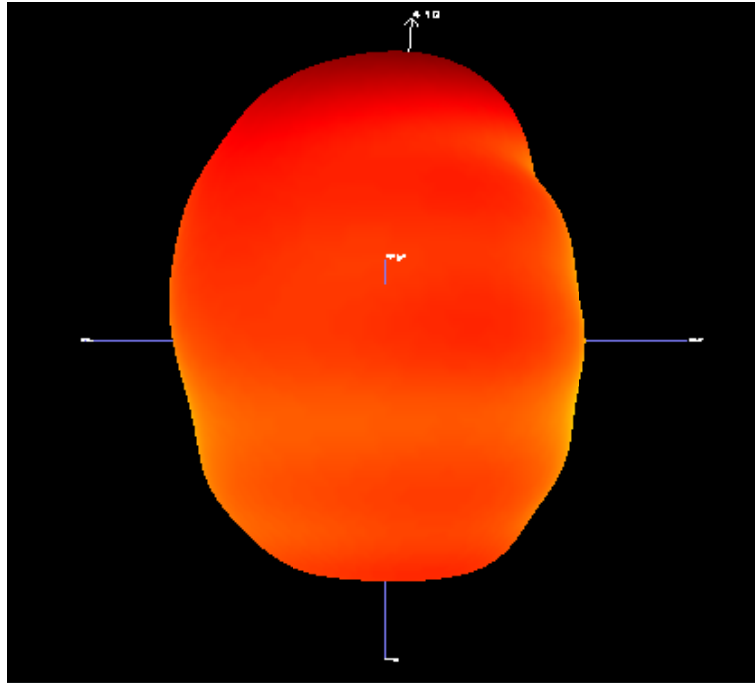
2. VSWR



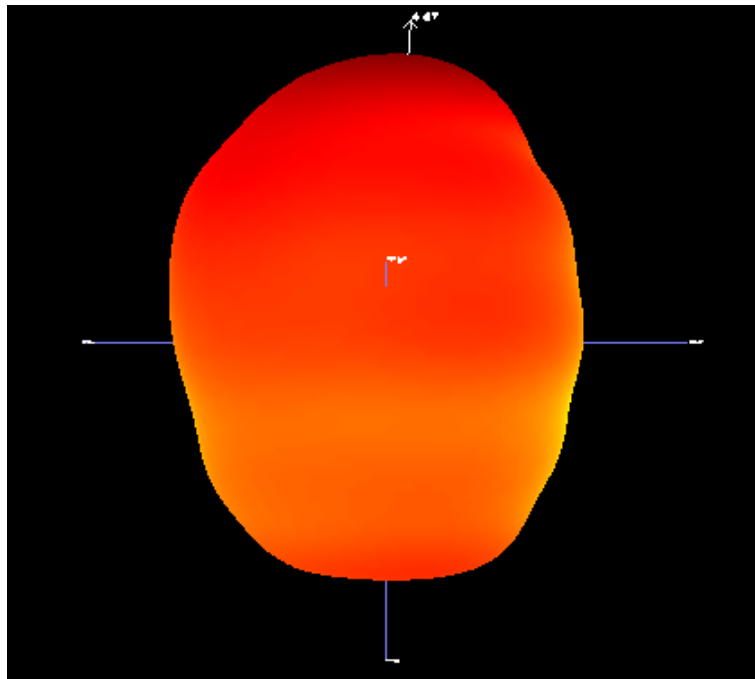
3. Impedance



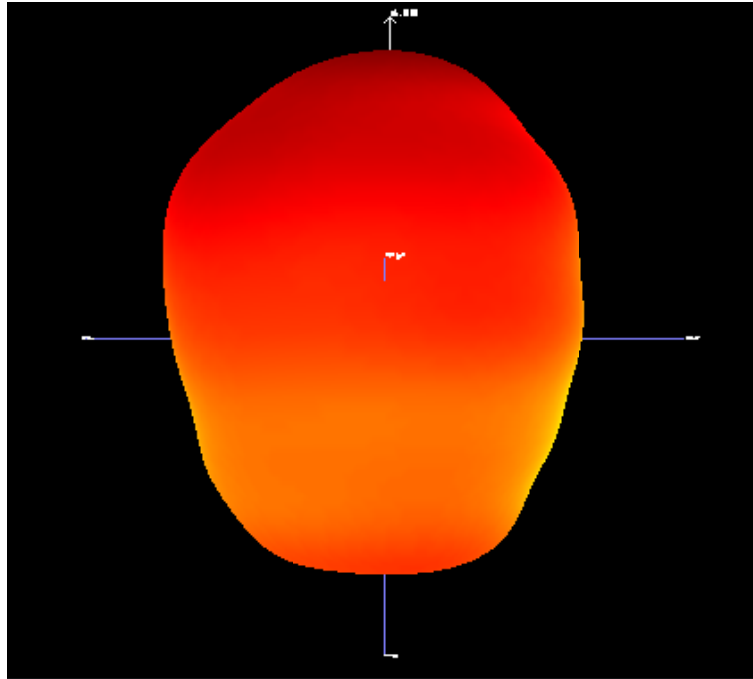
4. 3D Radiation Pattern



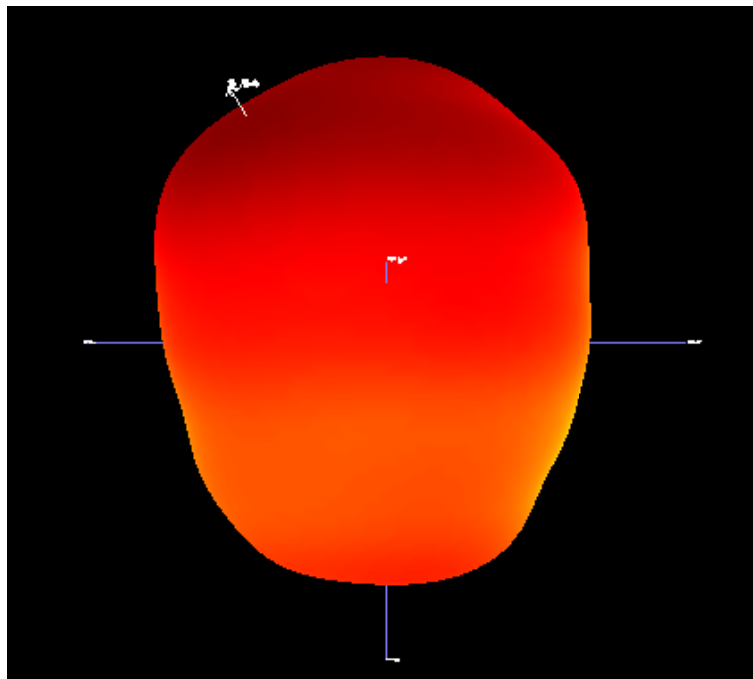
2400MHz



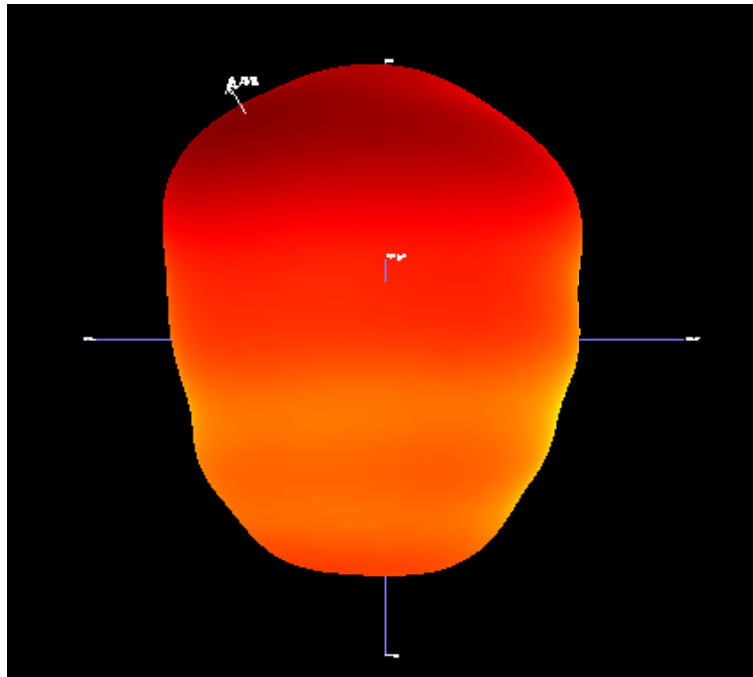
2410MHz



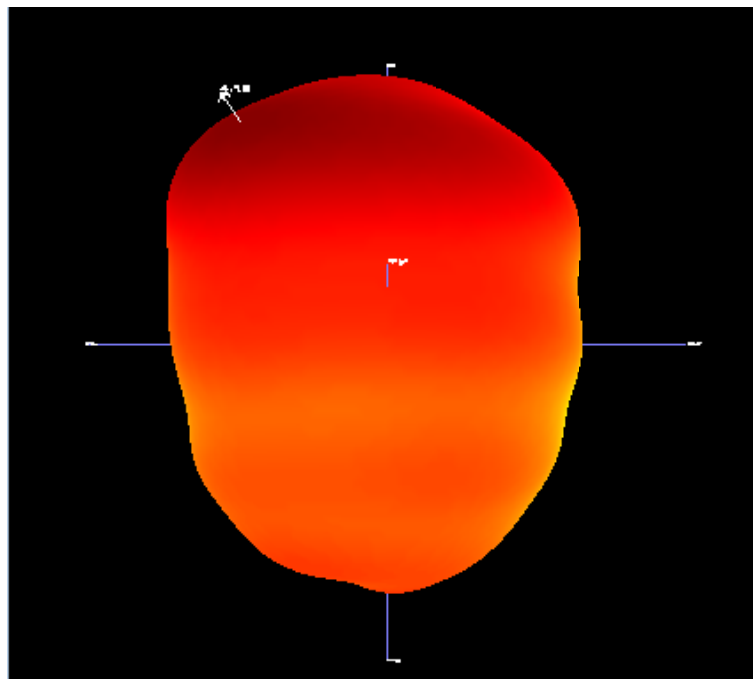
2420MHz



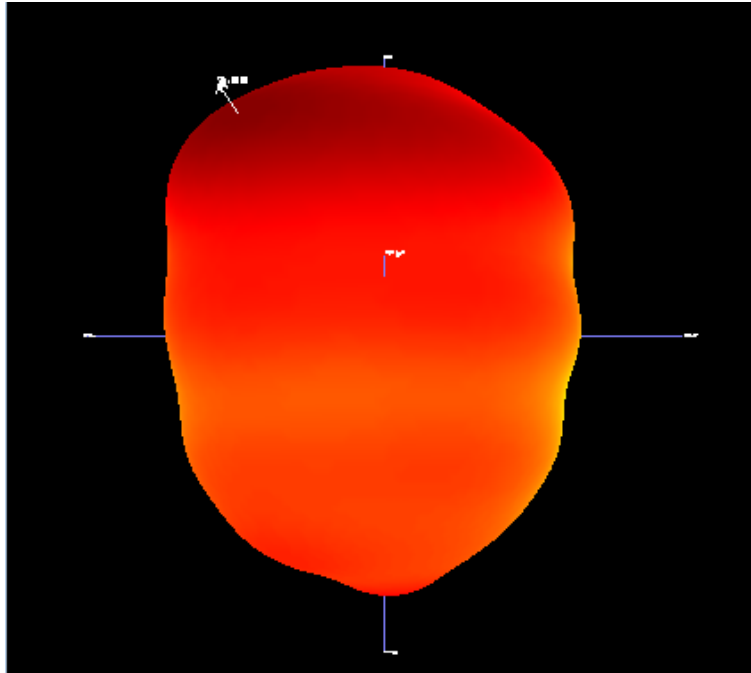
2430MHz



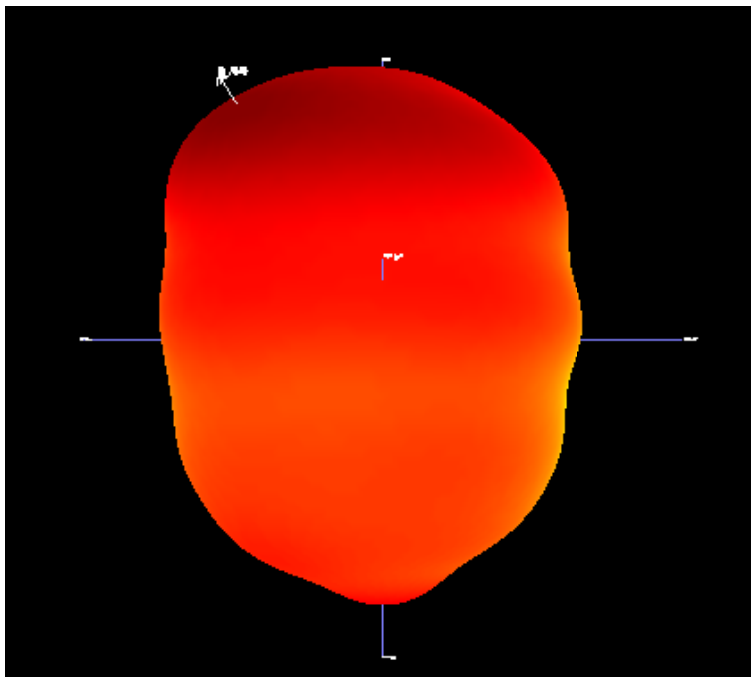
2440MHz



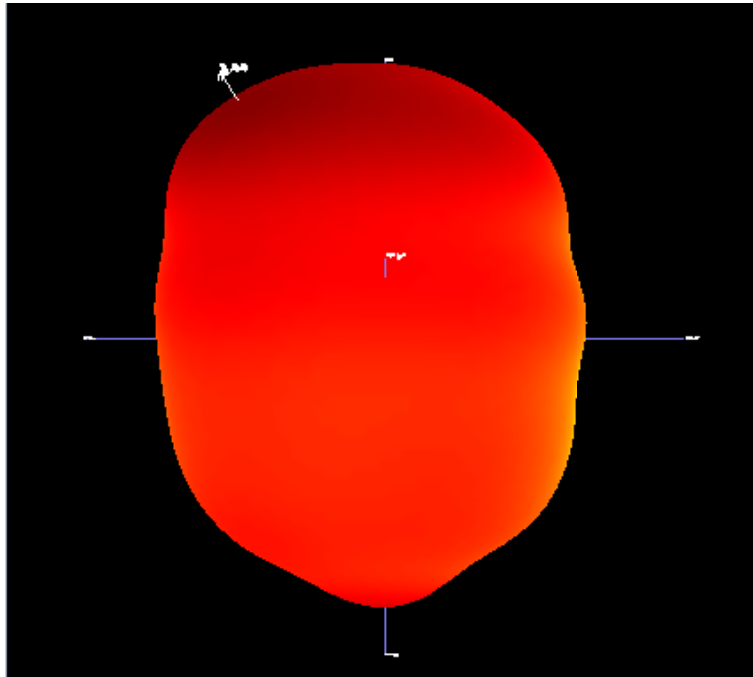
2450MHz



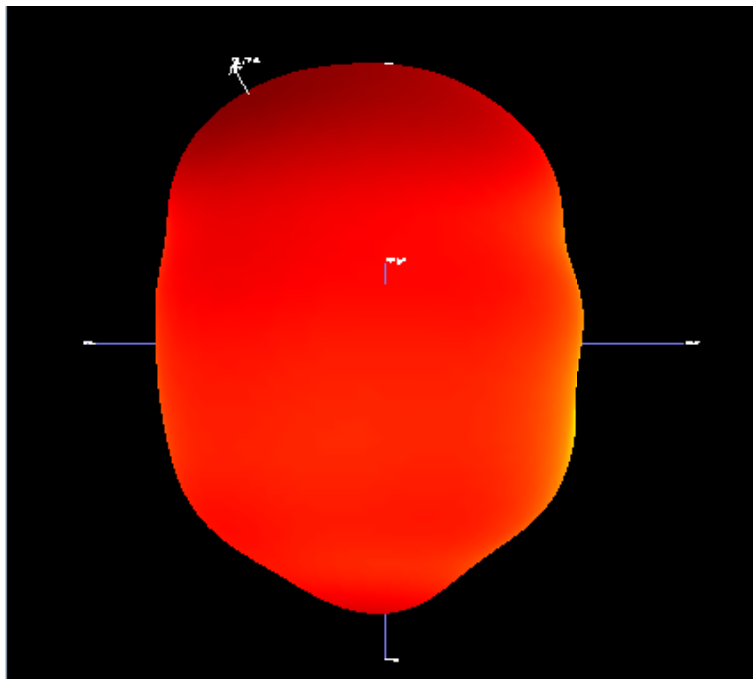
2460MHz



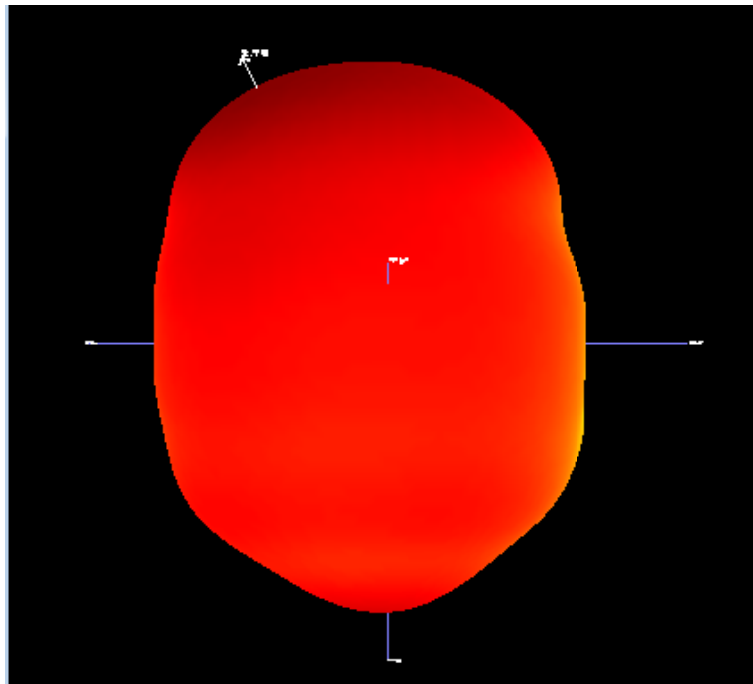
2470MHz



2480MHz



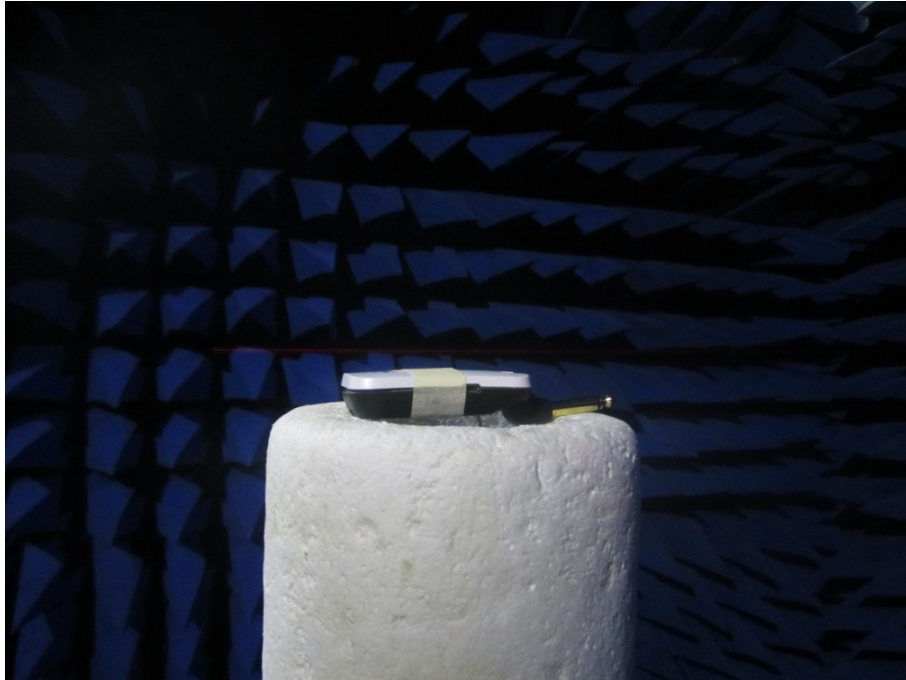
2490MHz



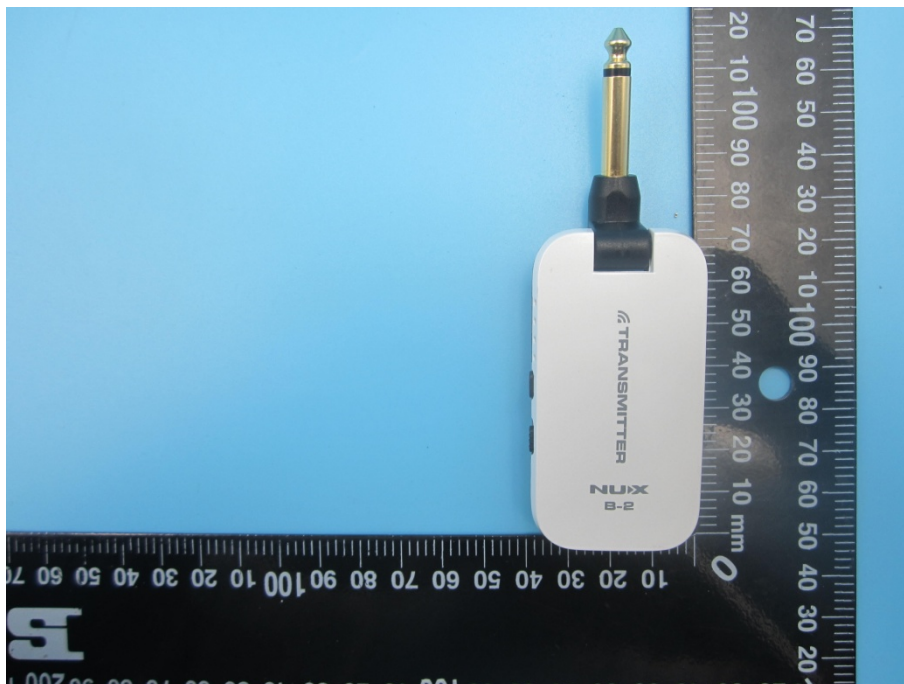
2500MHz

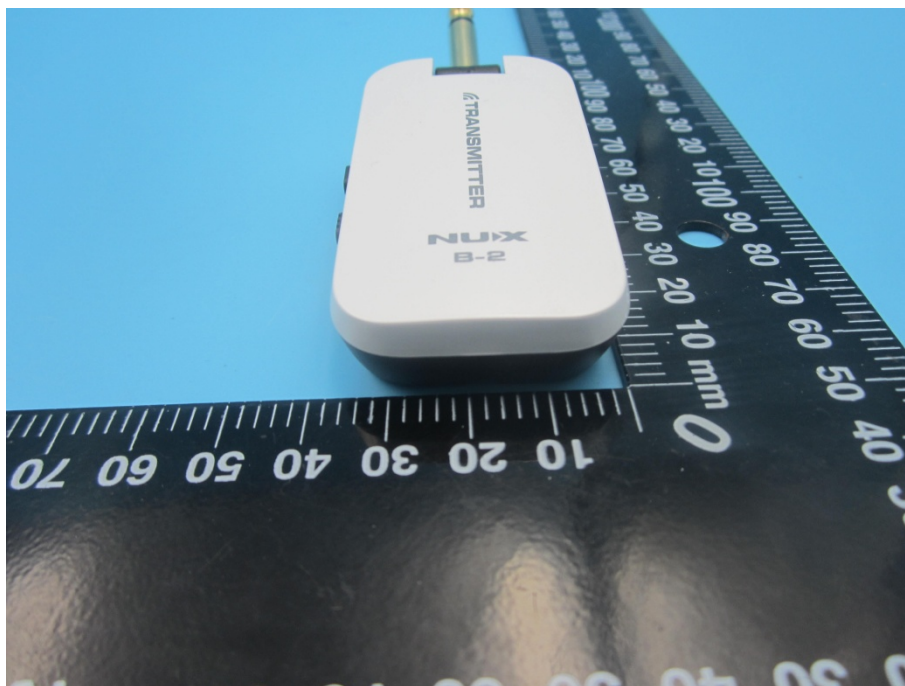
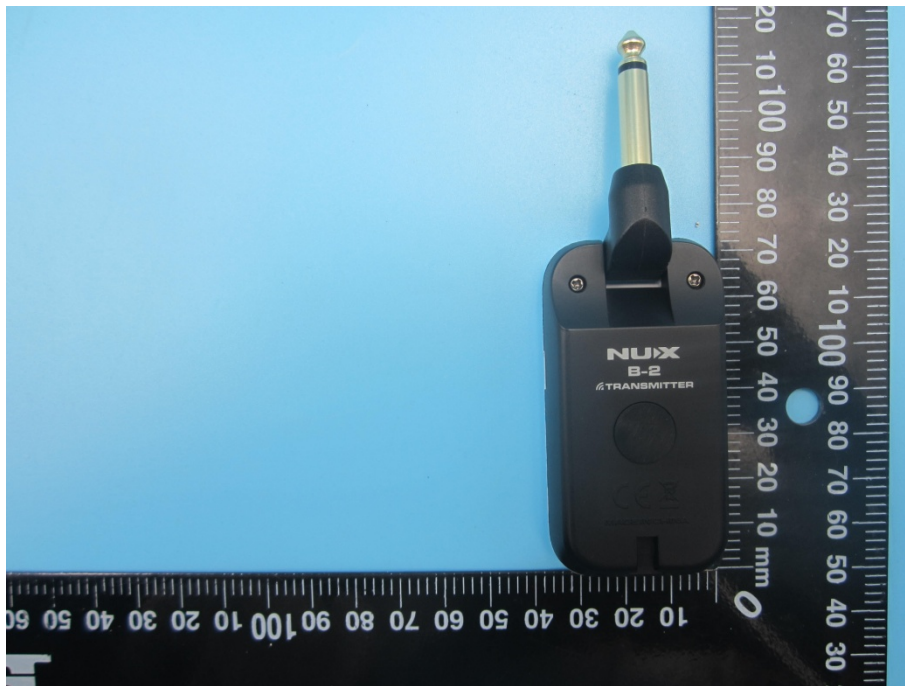
Annex C Photographs

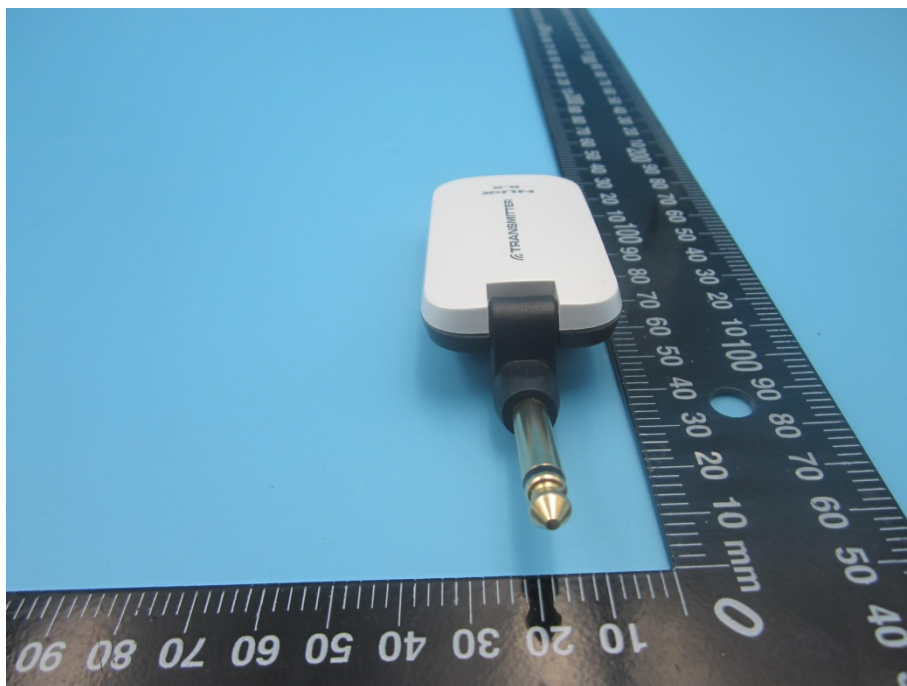
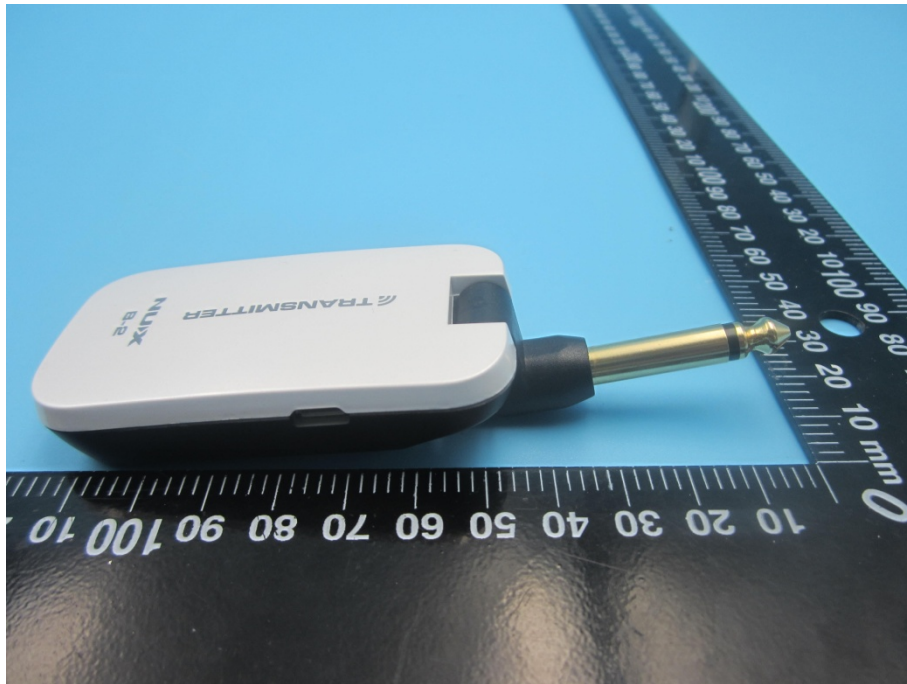
1. Test environment

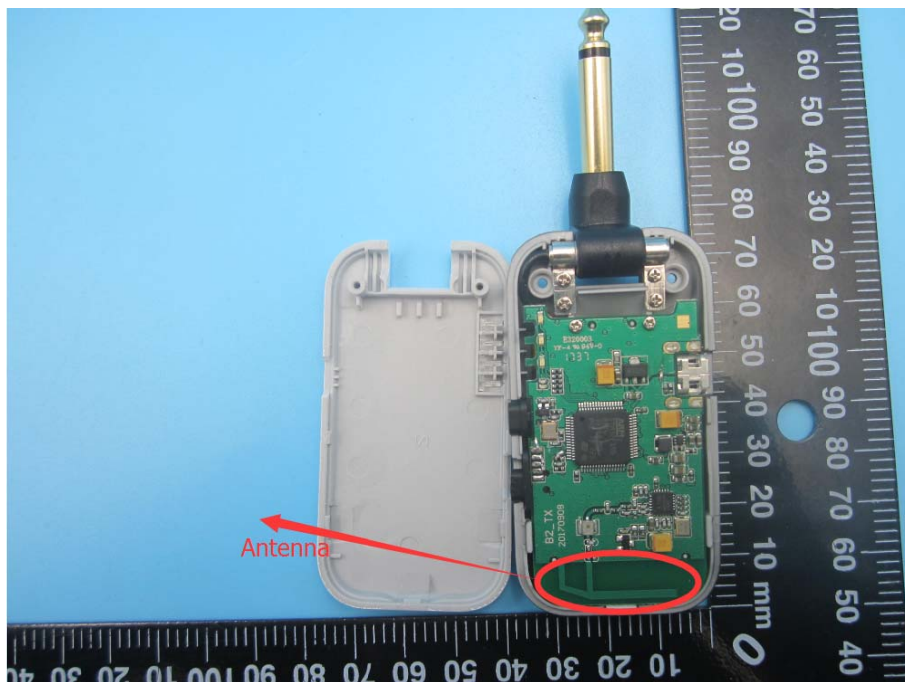
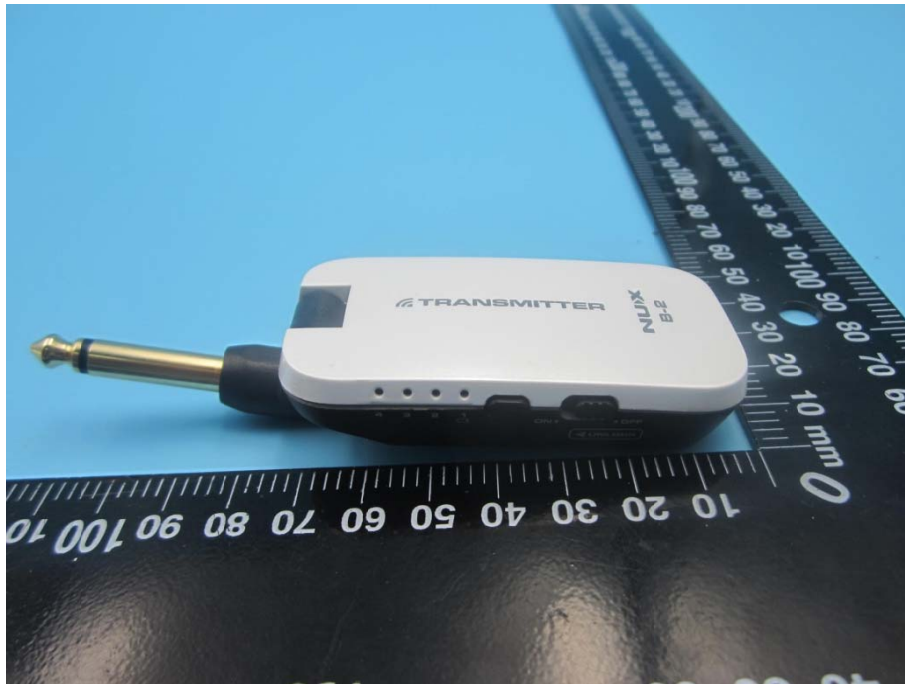


2. EUT











Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

1.3 Test Equipments Utilized

1.3.1 List of Test Equipment

No.	Type	Specification
1	E5071C Vector Network Analyzer	Manufacturer: Agilent
2	4*4*4 Full Anechoic Chamber	Manufacturer: Satimo
3	SG24 Multi-probe Antenna Measurement System	Manufacturer: Satimo

END OF REPORT