

# Testing Report

Customer Name Coosea Group Co.,Ltd.

Product Name F92E 5G

Specification FPC

Reference Standard: GB/T 9410-2008; ANSI/IEEE Std 149-1979

Engineer: Ruijie Xie

Date:2022.9.5

解瑞洁

Auditor: Yu Wang

Date:2022.9.5

王宇

Approver: Lunkang Yan

Date:2022.9.5

严伦康

Version No.	Date	Description	Formulate	Approval
AO	2022.9.5	For the first time.	Haiyan zhang	Lunkang Yan

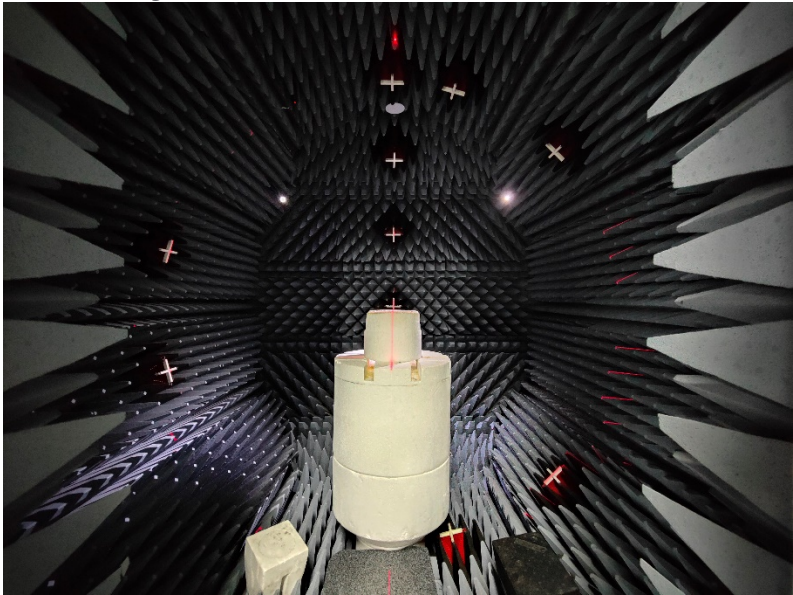
# 1.General Information

## 1.1 General information of testing institutions

Name	shenzhen Fu Bang Wireless Technical Limited Company
Address	3th Floor, Building T1, Lianjian Industrial Park,Huaxing Road, longhuadalang District,Shenzhen
Tel	13691727201
E-mail	eting2007@163.com
Equipment	GTS2800

## 1.2 Testing principle

### Multi-Probe OTA Measurement System



### 1.3 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
16 probe microwave chamber	3*3*29	RFI-LAB-RF-A00	SUNYIELD	2022.22	2023.3.21
Network Analyzer	E5071C	RFI-LAB-RF-A02	Agilent	2022.5.8	2023.5.7

### 1.4 Test environment

Temperature	24.6V
Humidity	59%RH
Pressure	100.12kPa

### 1.5 Statement

- (1) The test results in the report are only applicable to the tested sauries and the tested samples work under the environment described in the rq) ort.
- (2) Only Shenzhen FB-LAB Communication Technology Co., Ltd. have the right to modify the report, and the modification information shall be annotated in the revision fbnn.
- (3) Any objection to this report shall be raised within 30 days after formal confirmation of the report.
- (4) This report is invalid if there is any evidence that the sample information provided is falsified.
- (5) The report is invalid without the signature of the auditor and approver.

## 2.Sample Information

### 2.1 Client information

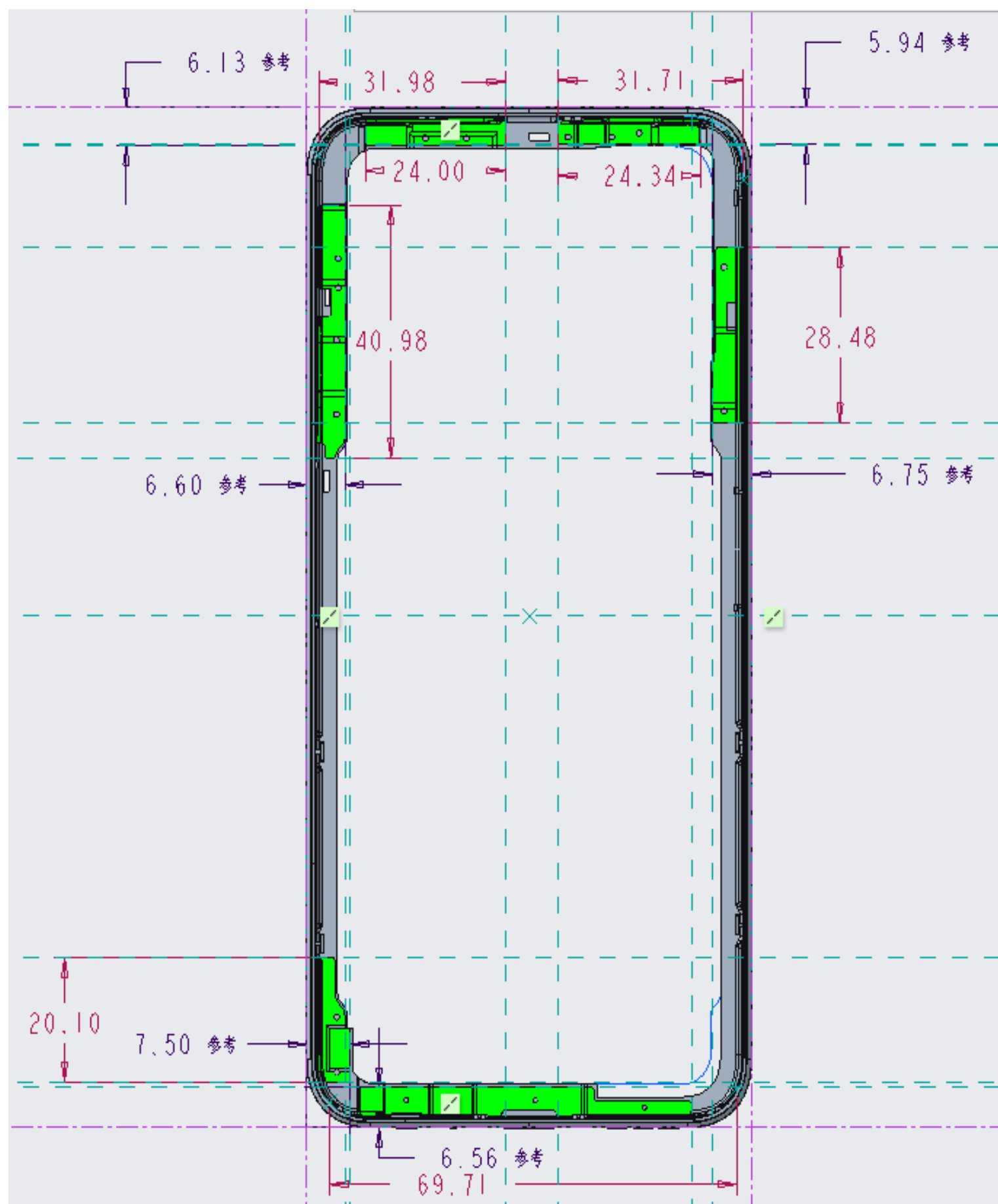
Name	Coosea Group Co.,Ltd.	
Address	9th Floor,	Tower 1,Foresea Life Center,Xingye Road, Bao'an District,Shenzhen
Contacts	Guojie Zhang	
Tel	18820235119	/
E-mail	zhangguojie@cooseagroup.com	

### 2.2 Description of EUT(S)

Product Name	F92E 5G-Antenna
Sample Model	
Antenna Size	6.56*69.71mm
Antenna Type	PIFA Antenna
Serial No.	
Test Item	VSWR; Gain; Efficiency; Radiation pattern
Frequency Range	699-5800 MHZ
Received Date	2022.8.29
Test Date	2022.9.5
Remark	

2.3 EUT appearance

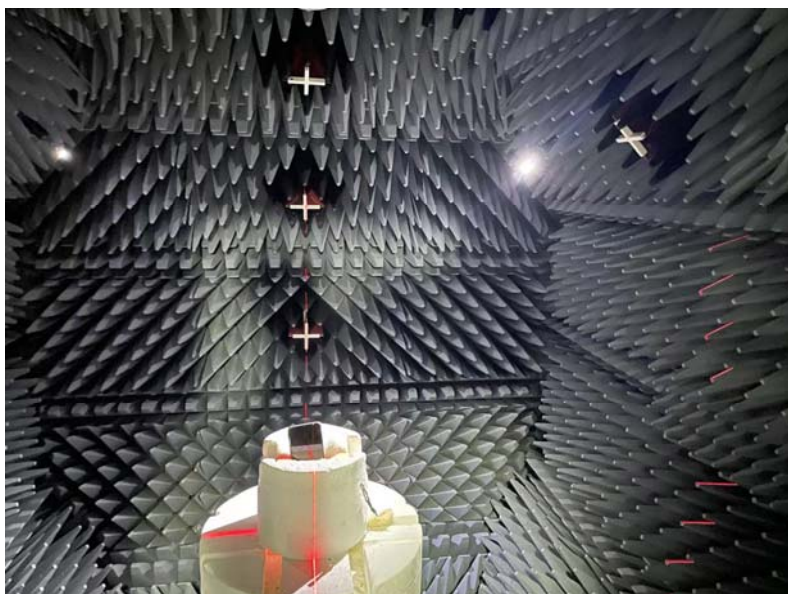
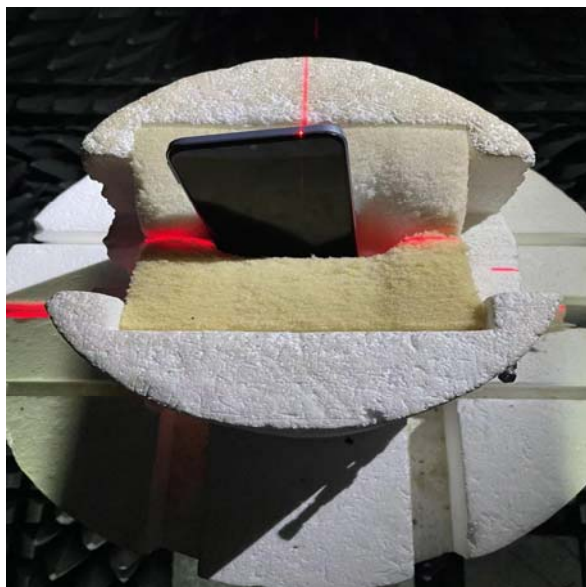






## 2.4 DUT setup photo of free space OTA testing

Planfonn



### 3.3 Test data

# F92E 5G

## RF Antenna Gain

### ANT7: B41/N41DRX +N77 DRX

-Manufacturer : Galtronics.

ANT7	Band	B41/N41	N77
	Peak gain (dBi)	-2.6	-2.8
	Efficiency/%	25.02	26.5

### ANT6: 2G: B5/8 TRX 3G: B5 TRX 4G: B5/12/13/17/26/71 TRX 5G: B5/71 TRX

-Manufacturer : Galtronics.

ANT6	Band	B5/N5	B8	B12	B13	B17	B26	B71/N71
	Peak gain (dBi)	-4.9	-4.6	-4.6	-4.5	-4.7	-4.9	-4.8
	Efficiency/%	19.5	18.9	18.1	17.8	17.6	19.5	17.5



**ANT5:B41/N41DRX +N77 DRX**

-Manufacturer : Galtronics.

ANT5	Band	B41/N41	N77
	Peak gain (dBi)	-3.2	-4.8
	Efficiency/%	18.2	13.3

**ANT4: B41/N41TRX +N77 TRX**

-Manufacturer : Galtronics.

ANT4	Band	B41/N41	N77
	Peak gain (dBi)	-1.2	-1.3
	Efficiency/%	31.2	31.5

**ANT3: B41/N41DRX**

-Manufacturer : Galtronics.

ANT3	Band	B41/N41
	Peak gain (dBi)	-3.9
	Efficiency/%	20.5

## ANT2:

**2G: B2/3 TRX 3G: W1/2/4 TRX 4G: B2/4/25/66 TRX 5G: N2/25/66 TRX**

-Manufacturer : Galtronics.

Antenna 2	Band	B3	W1	B2/N2	W4/B4	B25/N25	B66/N66
	Peak gain (dBi)	-2.4	-1.2	-1.3	-1.5	-1.5	-1.6
	Efficiency/%	28.1	30.3	31.1	28.9	28.7	28.5

## ANT1:N77DRX

-Manufacturer : Galtronics.

Antenna 1	Band	N77
	Peak gain (dBi)	-3.1
	Efficiency/%	25.0

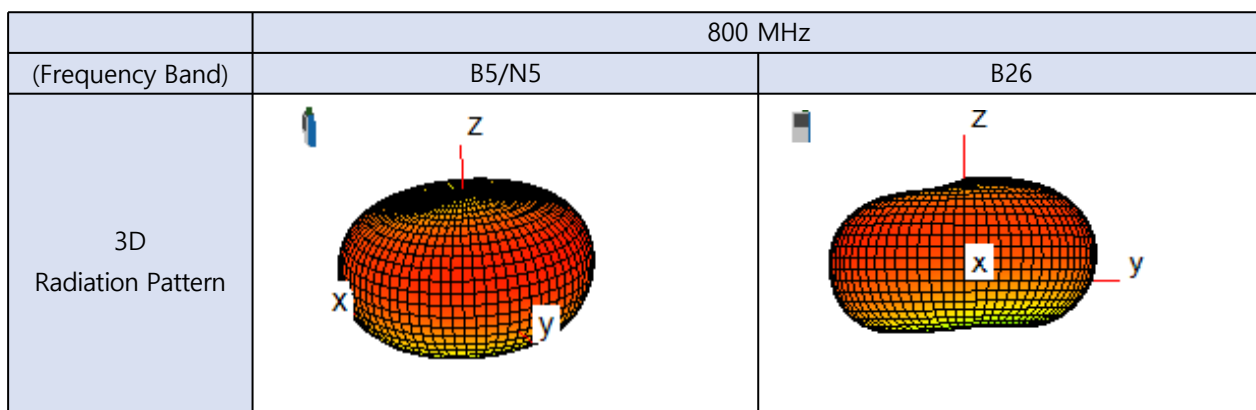
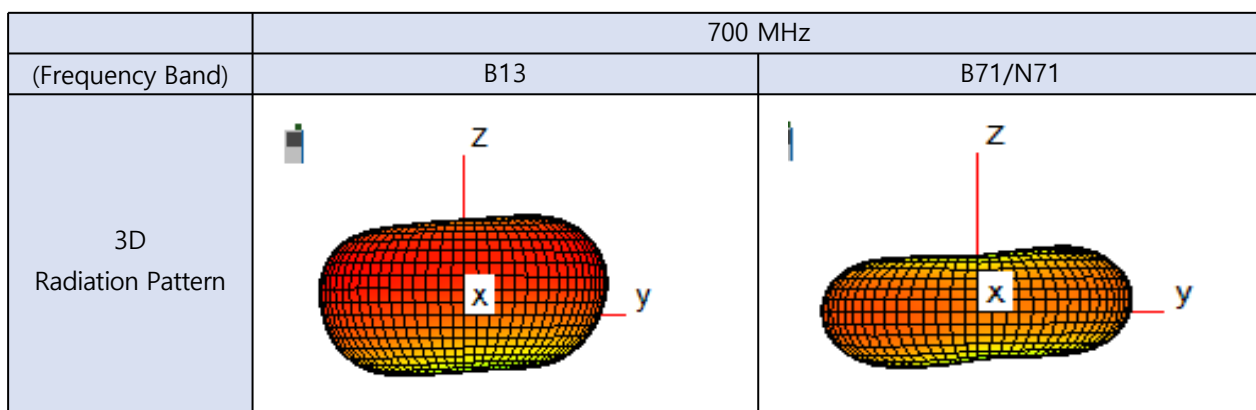
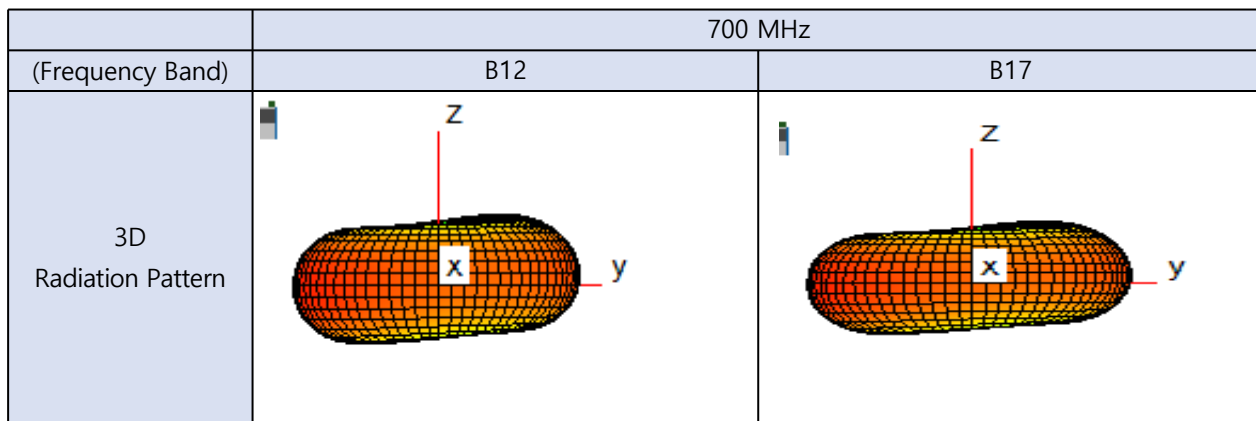
## ANT0: GPS/WiFi/BT

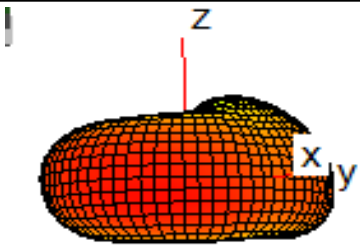
-Manufacturer : Galtronics.

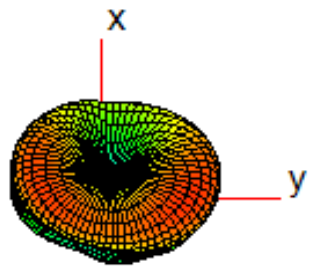
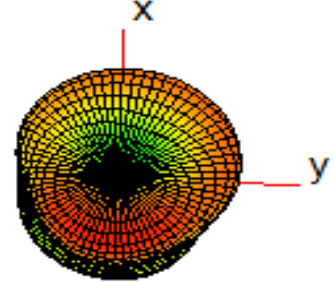
Antenna 0	Band	Wifi 2.4G	Wifi 5G	GPS
	Peak gain (dBi)	-1.0	-1.2	-0.9
	Efficiency/%	28.2	31.1	30.5

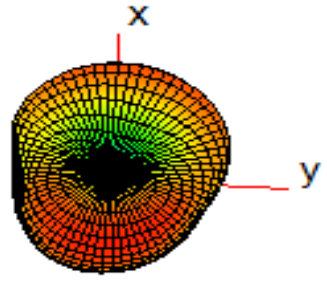
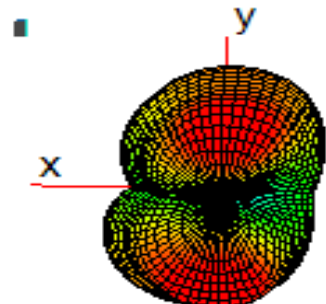
## ● Radiation Pattern

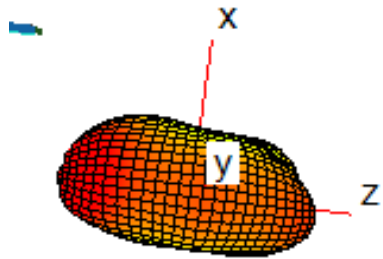
There is Radiation Pattern due to passive measurement with MTG chamber.

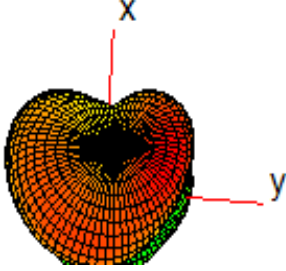
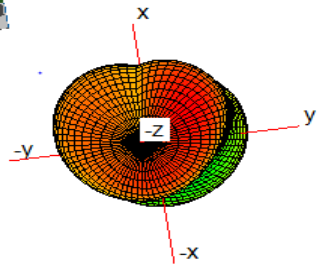


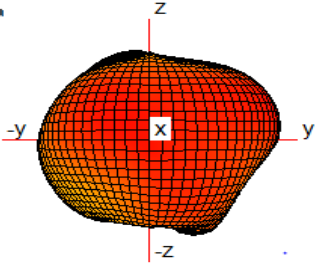
	900 MHz	
(Frequency Band)	B8	
3D Radiation Pattern		

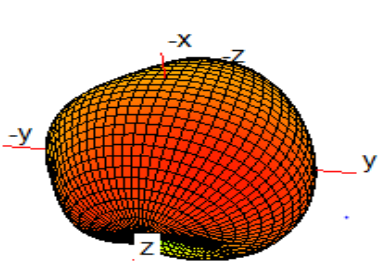
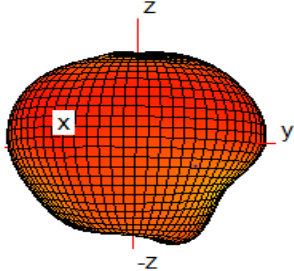
	1700-2100 MHz	
(Frequency Band)	B4	B66/N66
3D Radiation Pattern		

	1900 MHz	
(Frequency Band)	B2/N2	B25/N25
3D Radiation Pattern		

	2100MHz	
(Frequency Band)	W1	
3D Radiation Pattern		

	2500MHz-2700 MHz	
(Frequency Band)	B41	N41
3D Radiation Pattern		

	3300MHz-4200 MHz	
(Frequency Band)	N77	
3D Radiation Pattern		

	2.4GHz-5GHz	
(Frequency Band)	WiFi 2.45GHz	WiFi 5.8 GHz
3D Radiation Pattern		

(Frequency Band)	1575 MHz
3D Radiation Pattern	