

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

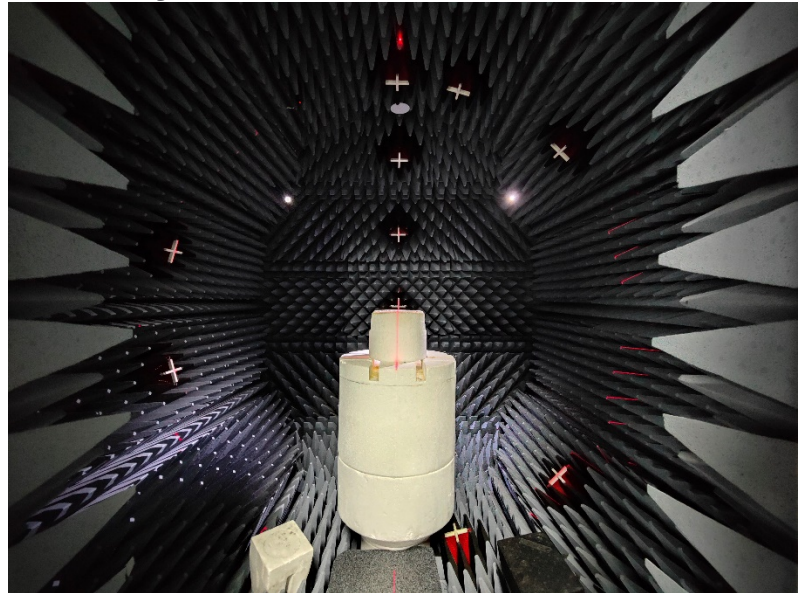
1.General Information

1.1 General information of testing institutions

Name Address	shenzhen Fu Bang Wireless Technical Limited Company 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

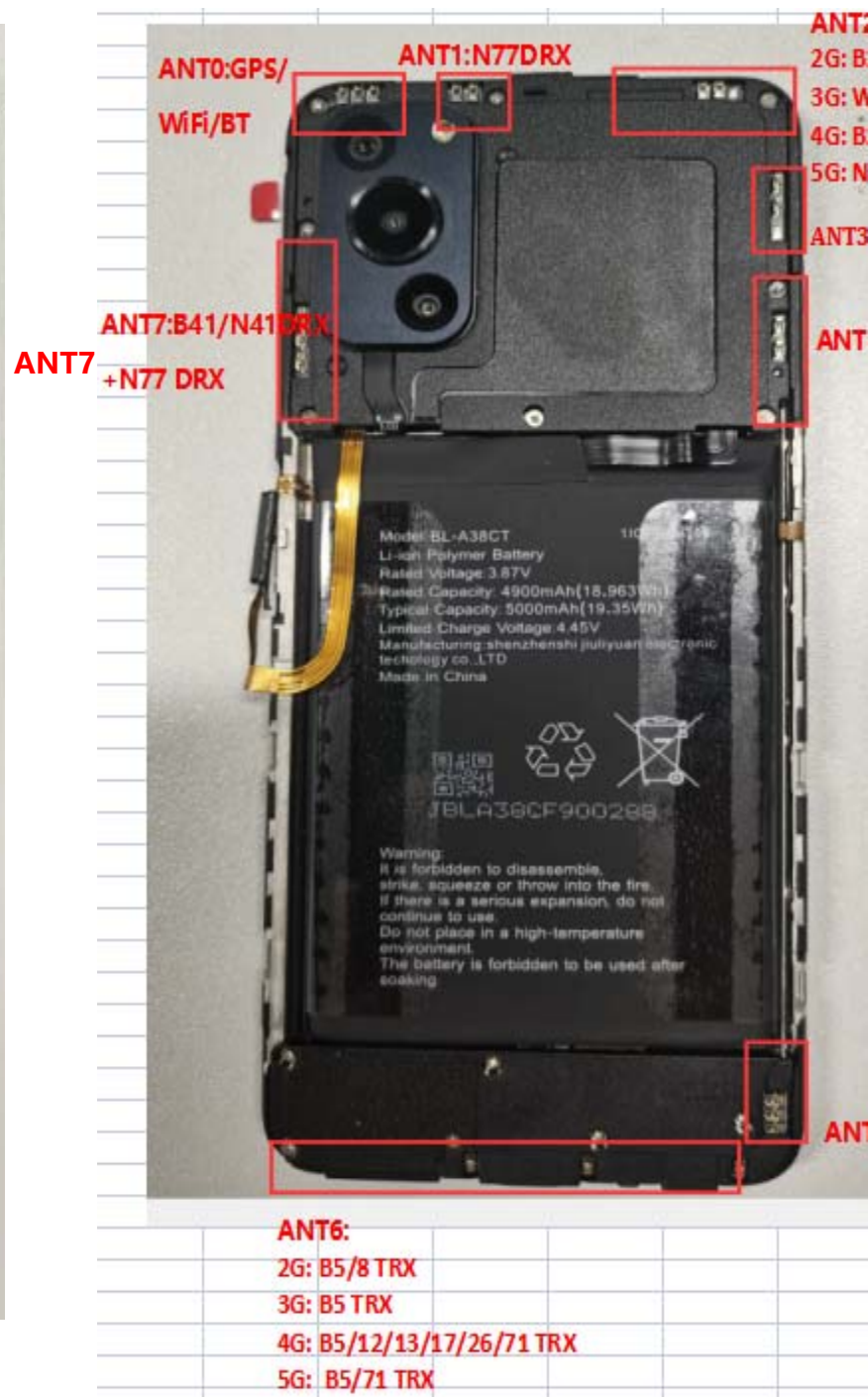
2.1 Client information

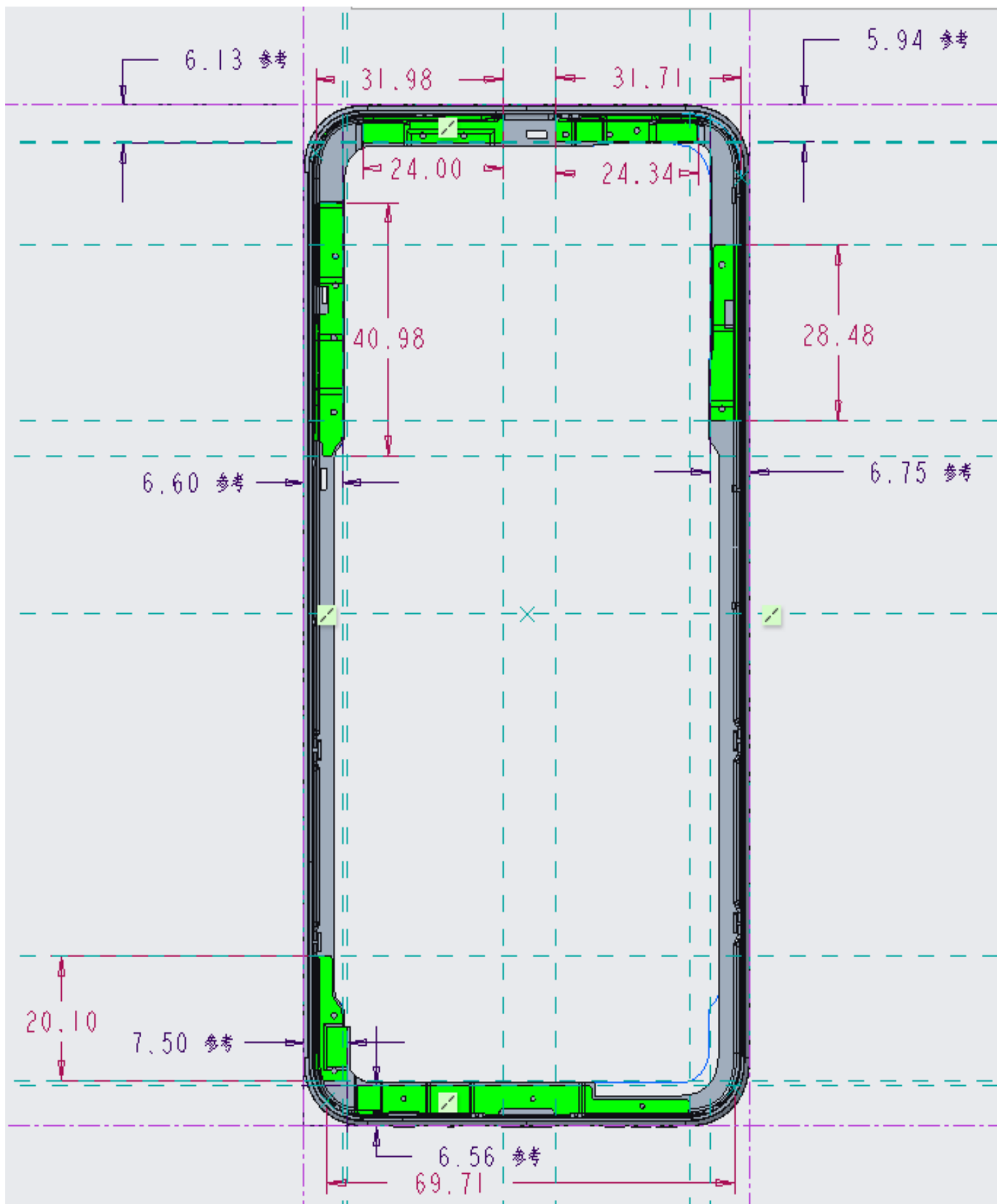
Name	Coosea Group Co.,Ltd.	
Address	9th Floor,	Tower 1,Foresea Life Center,Xingye Road, Bao'an District,Shenzhen
Contacts	Guojie Zhang	
Tel	18820235119	/
E-mail	zhangguojie@cooseagroup.com	

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	

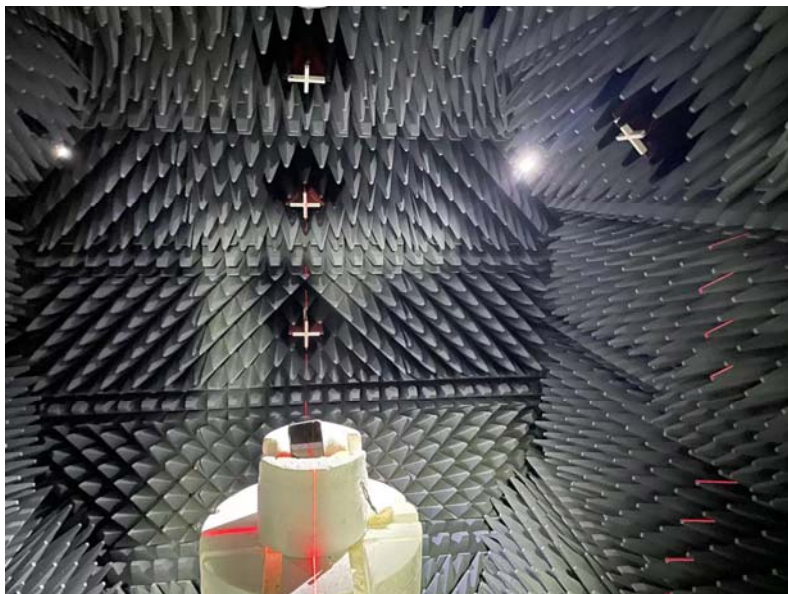
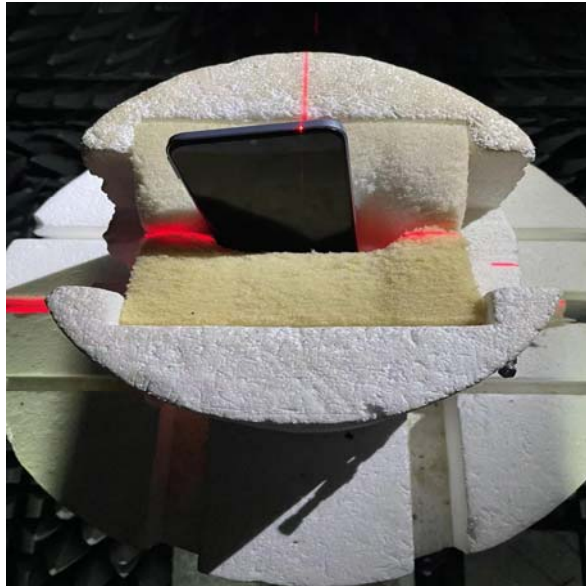
2.3 EUT appearance





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


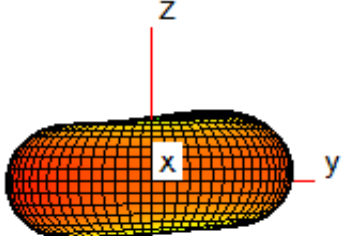
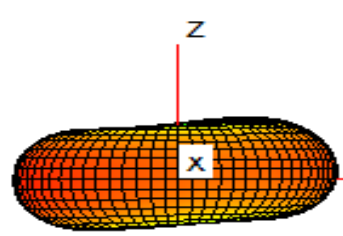
ANT0: GPS/WiFi/BT


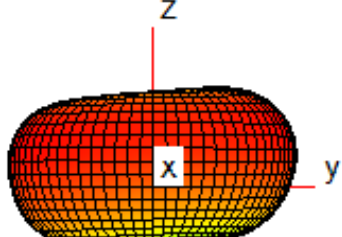
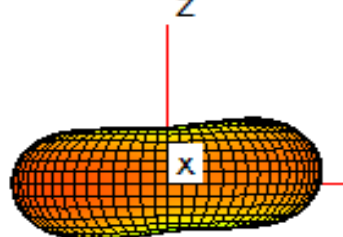
-Manufacturer : Galtronics.


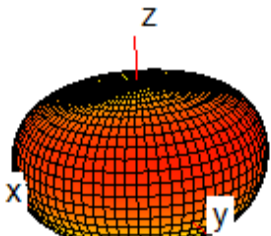
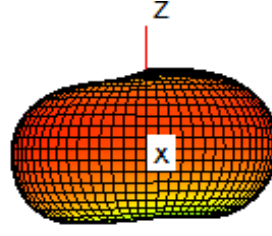
Antenna 0	Band	Wifi 2.4G	Wifi 5G	GPS
	Peak gain (dBi)	-1.0	-1.2	-0.9
	Efficiency/%	28.2	31.1	30.5

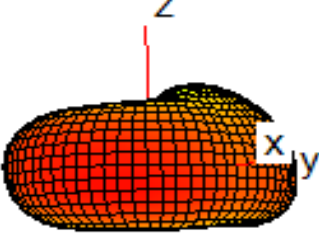
● Radiation Pattern

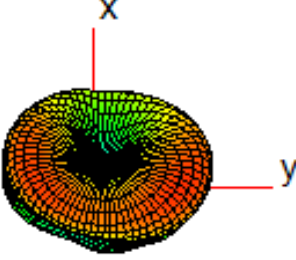
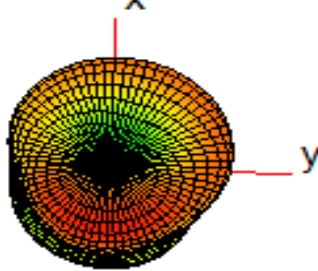
There is Radiation Pattern due to passive measurement with MTG chamber.

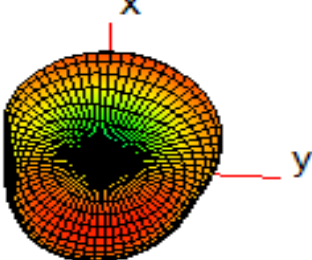
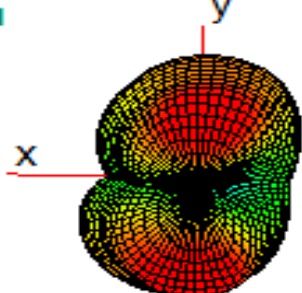
		700 MHz	
(Frequency Band)		B12	B17
3D Radiation Pattern			

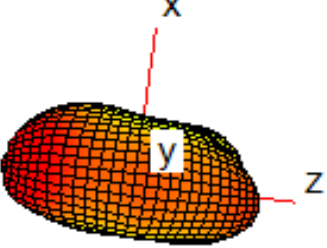
		700 MHz	
(Frequency Band)		B13	B71/N71
3D Radiation Pattern			

		800 MHz	
(Frequency Band)		B5/N5	B26
3D Radiation Pattern			

	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	