

Antenna Product Specification

Entry Name	SP7866A
Frequency Channel	LTE- B1/B2/B3/B4/B5/B7/B8/B10/B12/B13/B14/B20/B 25/B26/B28/B38/B40/B41//B71/B66:880Mhz- 960Mhz, 824Mhz-894Mhz, , 790Mhz- 860Mhz, 700Mhz-800Mhz, 600Mhz- 700Mhz, 1710Mhz-2700Mhz Wi-Fi:2400-2500Mhz 5150-5850Mhz BT: 2400-2500Mhz GPS:1575Mhz
Supplier Name	Innowave Communication Technology Co., Ltd.
Manufacturer Address	2nd Floor, No.10, Shaling West Road, Xiakou Management Area, Dongcheng Street, Dongguan City

1. Type of Antenna:

LTE&GPS&WIFI&BT: PIFA

NFC: Copper Size: 52*82mm

Antenna attachment type: Fixed Internal mounted

Test chamber: GTS

Testing software: Ray zone 1800

Test instrument and calibration date: E5071C

E5017C Calibration date: On July 9st, 2025

Due date: On July 9st, 2026

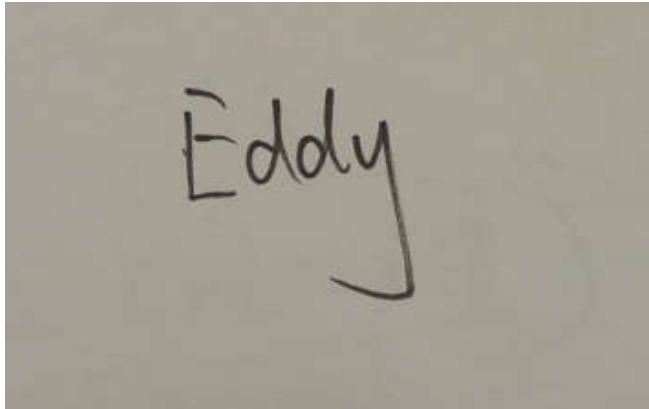
Chamber Calibration date: On July 9st, 2025

Due date: On July 9st, 2026

Test data: On Dec 10th, 2025

Engineer's signature : i

Test engineer:



2. Gain

MAIN Antenna : Gain

Freq (MHz)	Peak Gain(dBi)
600~700MHz	-4.0
700~800MHz	-2.5
790~860MHz	-0.9
824~894MHz	-0.9
880~960MHz	-0.9
1710~1880MHz	2.1
1880~1990MHz	2.1
2110~2170MHz	2.1
2300~2400MHz	1.2
2500~2700MHz	1.2

DIV Antenna : Gain

Freq (MHz)	Peak Gain(dBi)
600~700MHz	-4.5
700~800MHz	-3.2
790~860MHz	1.2
824~894MHz	1.2
880~960MHz	1.2
1710~1880MHz	2.5
1880~1990MHz	2.5
2110~2170MHz	2.5
2300~2400MHz	1.9
2500~2700MHz	1.9

WCN Antenna : Gain

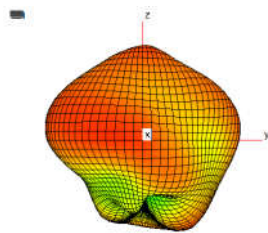
Freq (MHz)	Peak Gain(dBi)
1575MHz	0.2
2400~2500MHz	0.2
5150~5250MHz	0.6
5250~5350MHz	0.6
5350~5425MHz	0.6

5450~5550MHz	0.6
5550~5650MHz	0.6
5650~5750MHz	0.6
5750~5850MHz	0.6

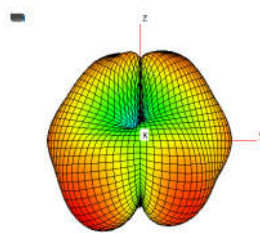
3. 3D Directional Pattern2500

DIV Antenna : LTE

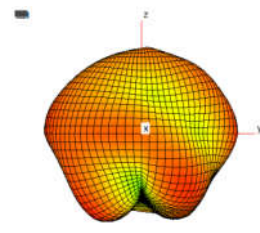
Theta



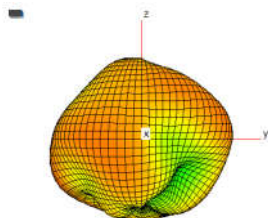
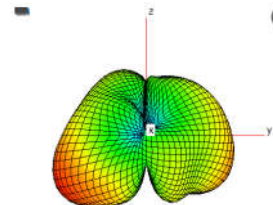
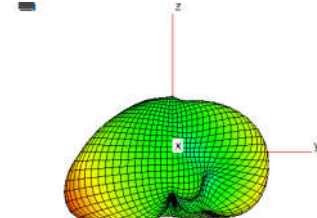
Phi



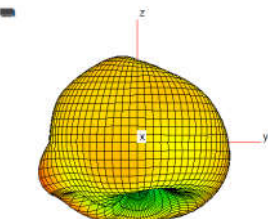
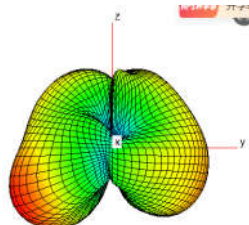
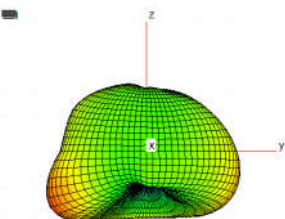
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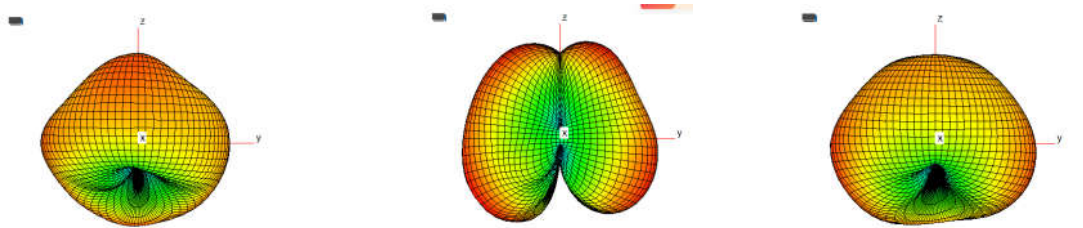
600MHz



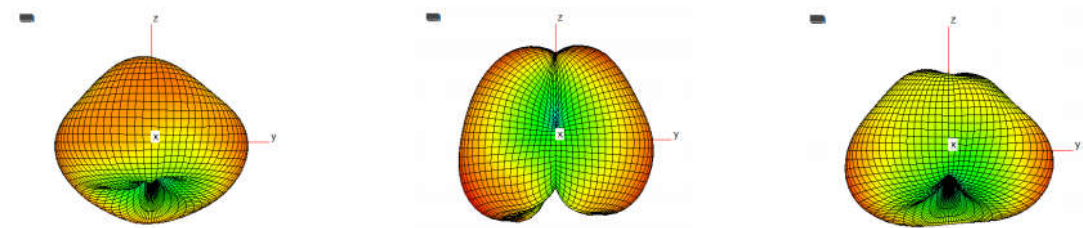
700MHz(B71)



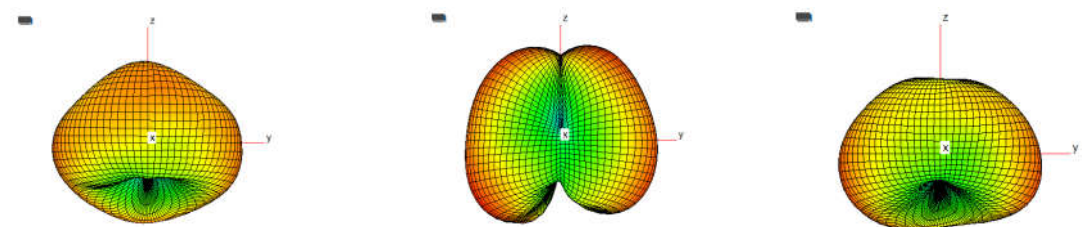
700MHz (B28)



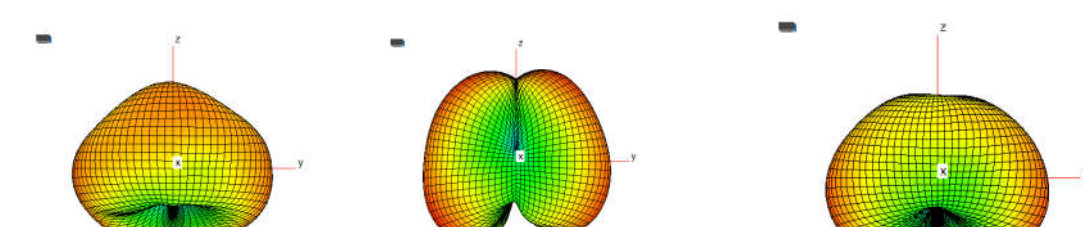
800MHz



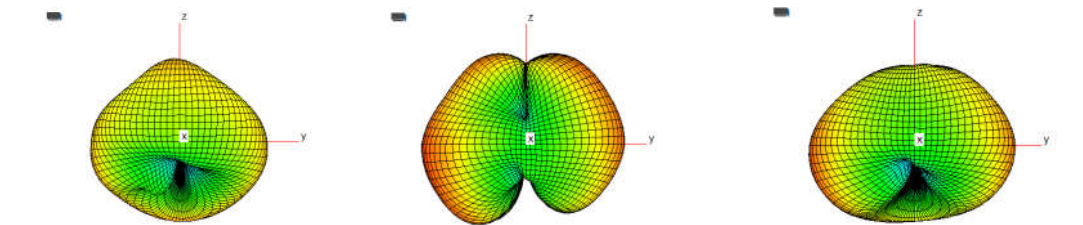
790MHz



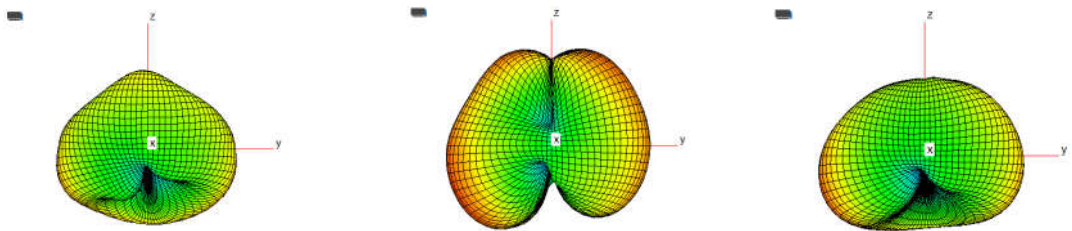
860MHz



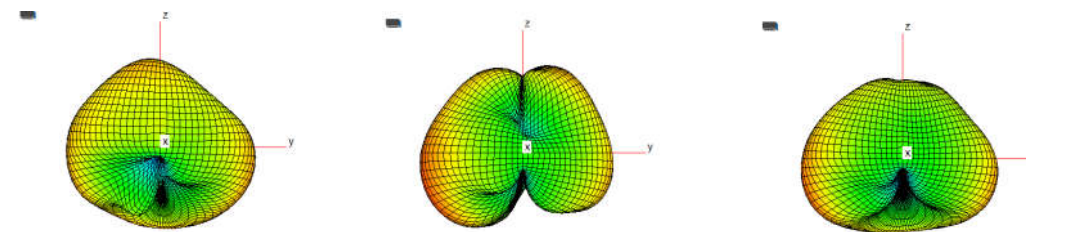
824MHz



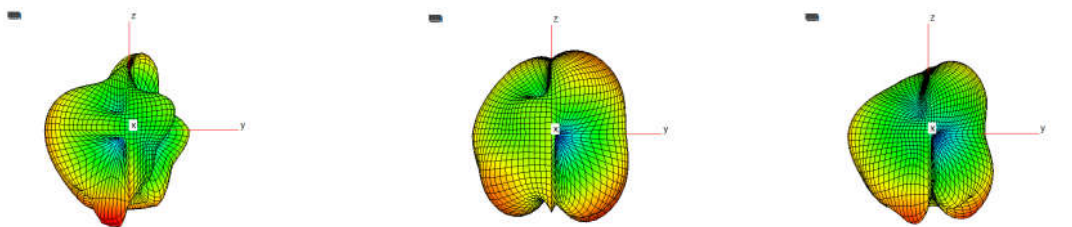
894MHz



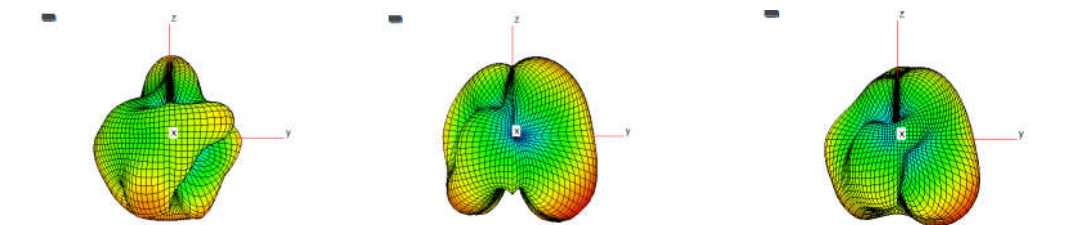
880MHz



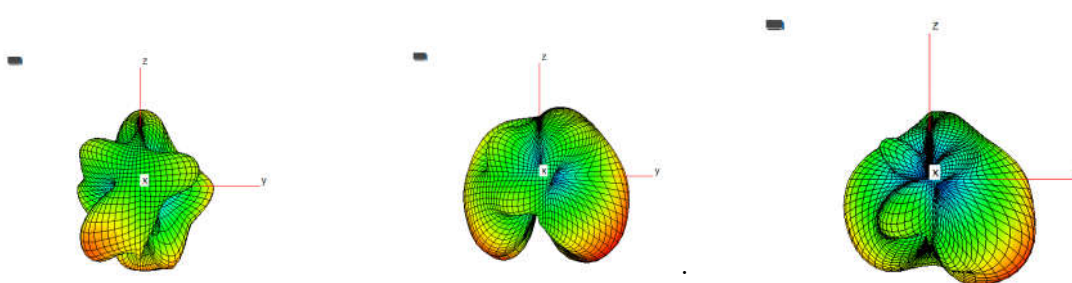
960MHz



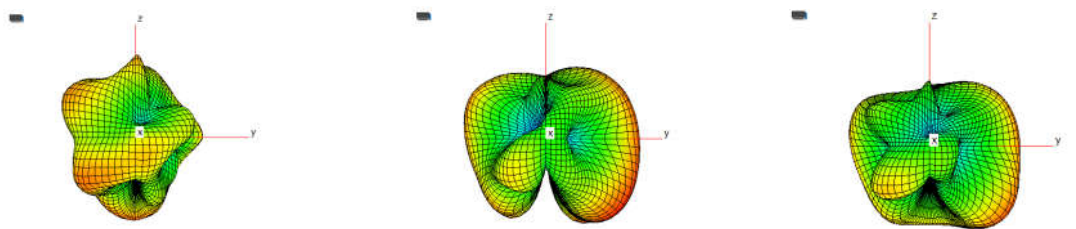
1710MHz



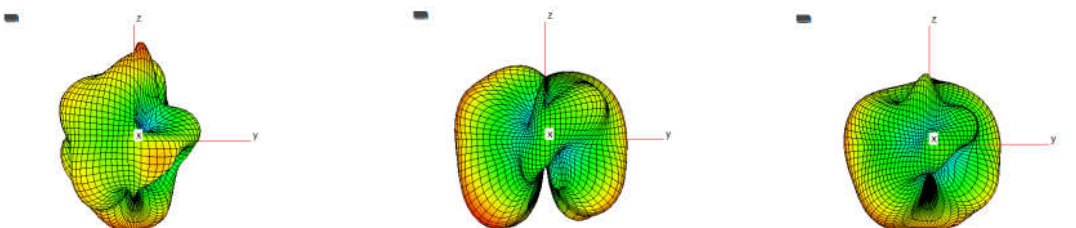
1880MHz



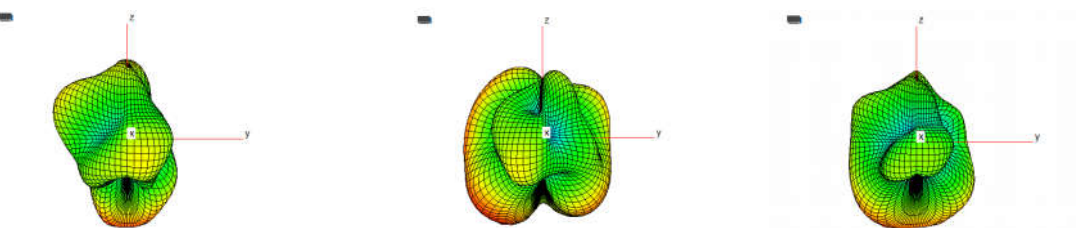
1990MHz



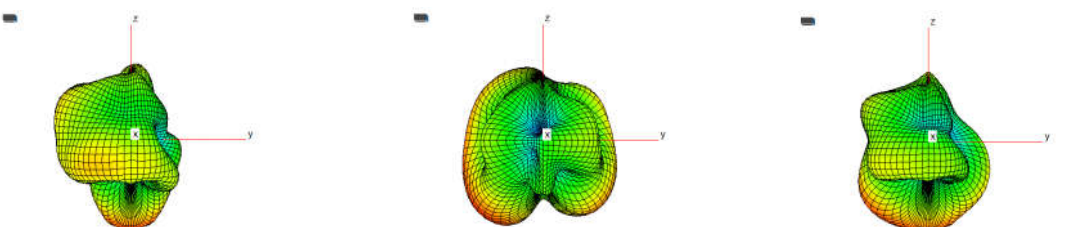
2110MHz



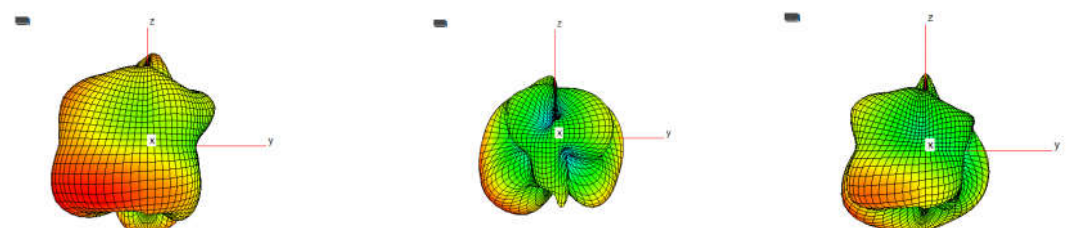
2170MHz



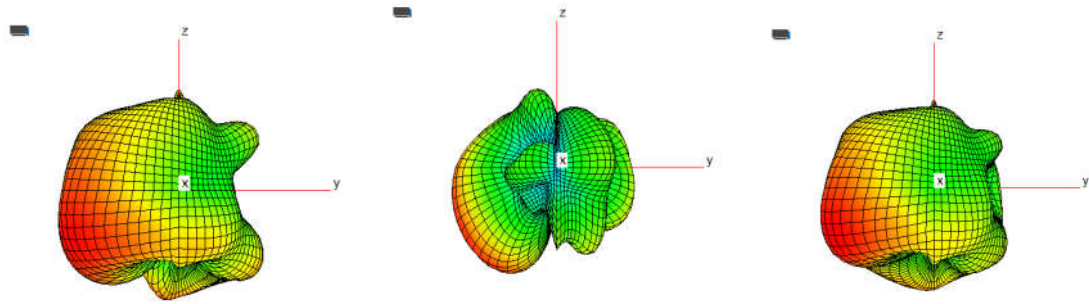
2300MHz



2400MHz



2500MHz



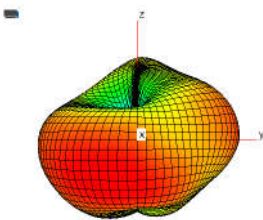
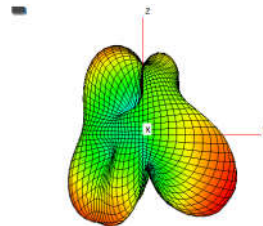
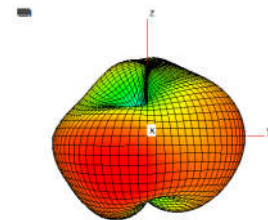
2690MHz

MAIN Antenna : LTE

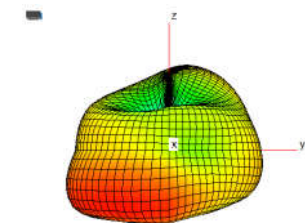
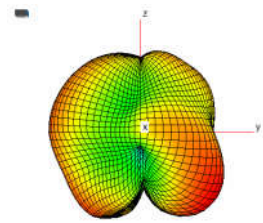
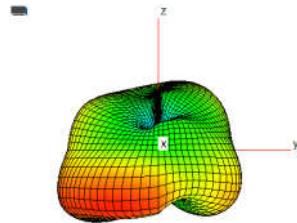
Theta

Phi

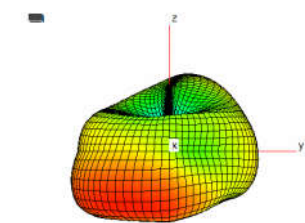
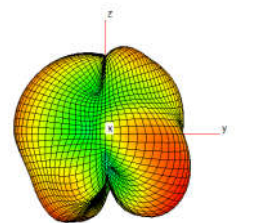
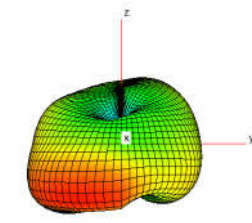
Total



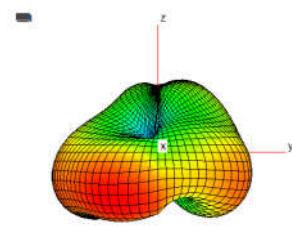
600MHz



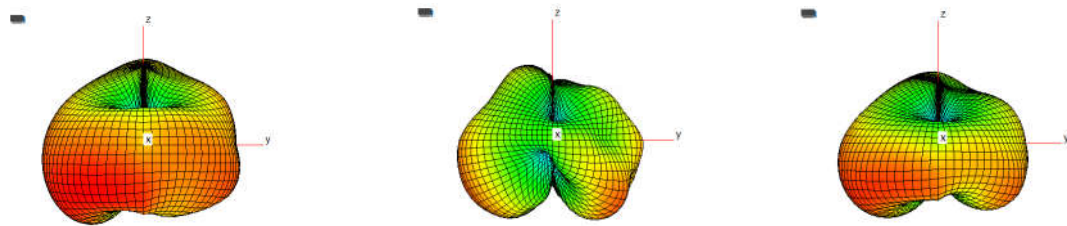
700MHz(B71)



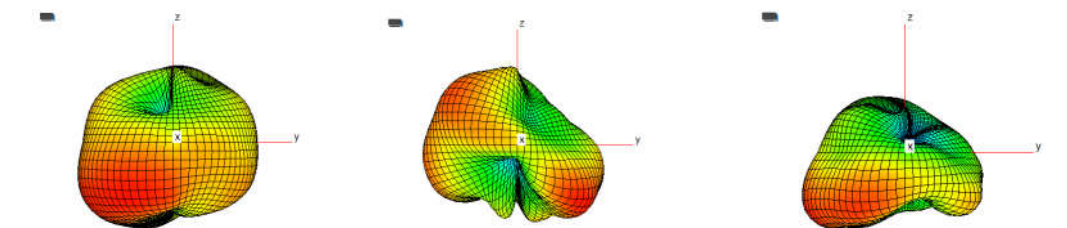
700MHz (B28)



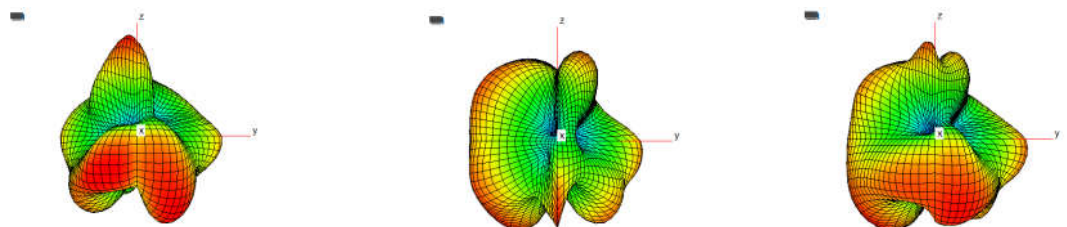
894MHz



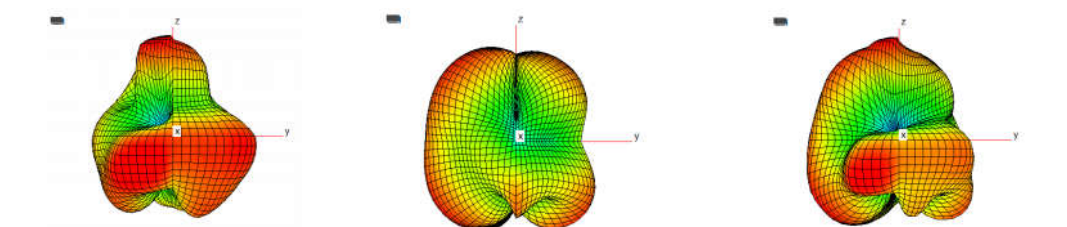
880MHz



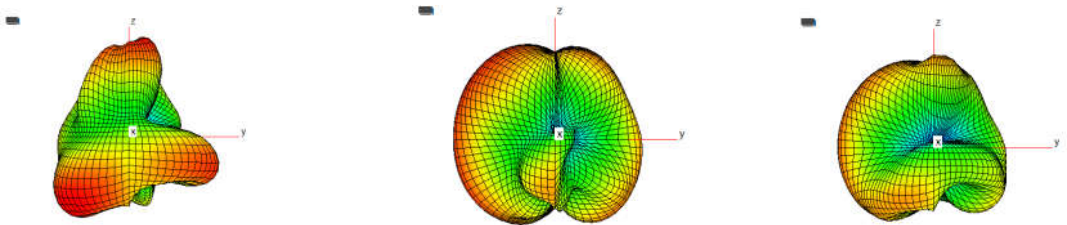
960MHz



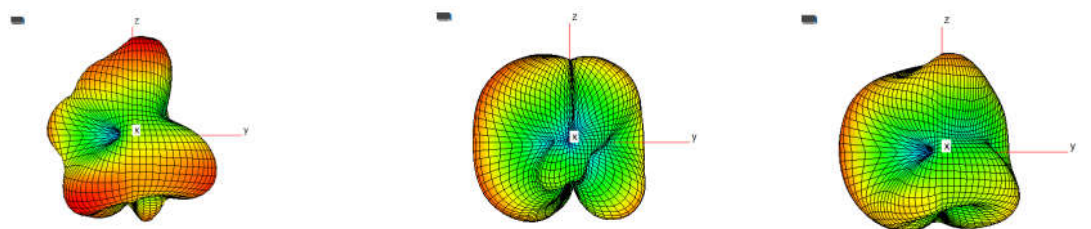
1710MHz



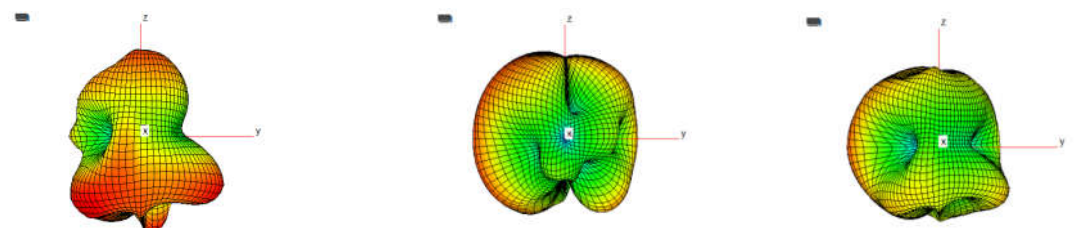
1880MHz



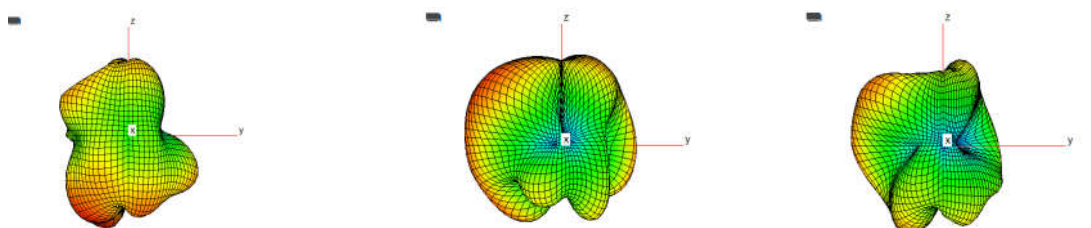
1990MHz



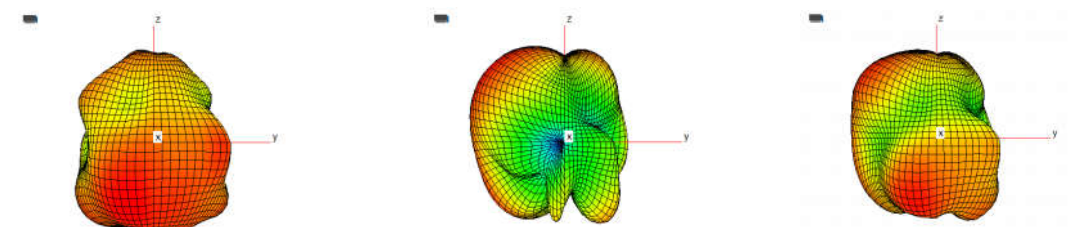
2110MHz



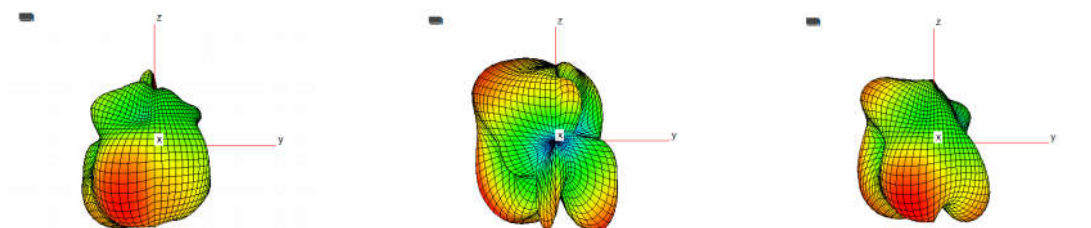
2170MHz



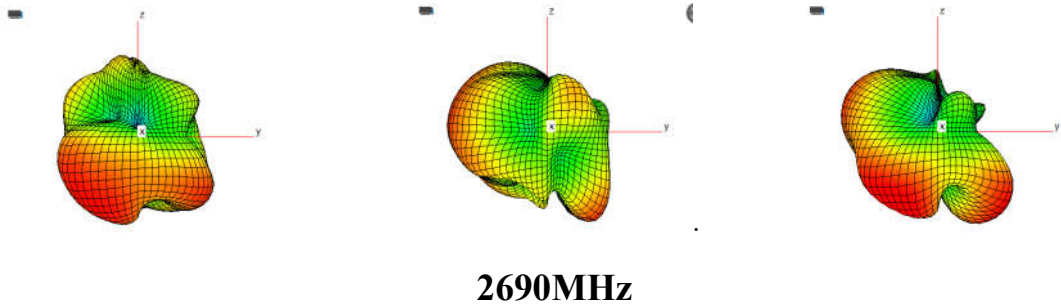
2300MHz



2400MHz



2500MHz

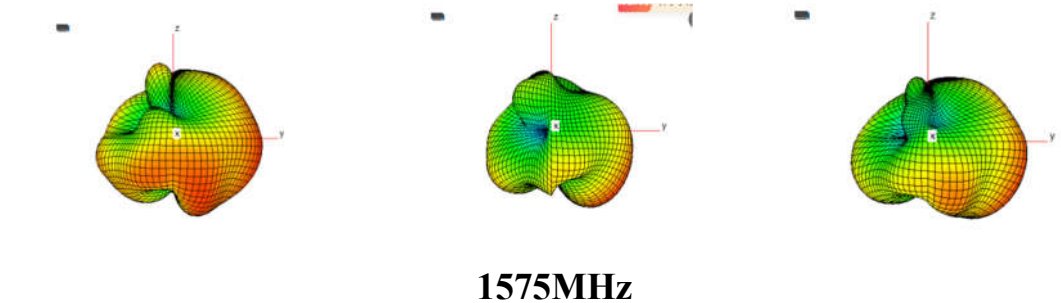
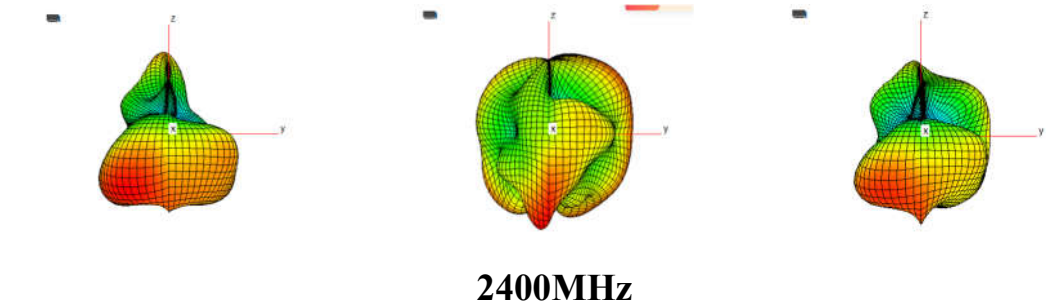
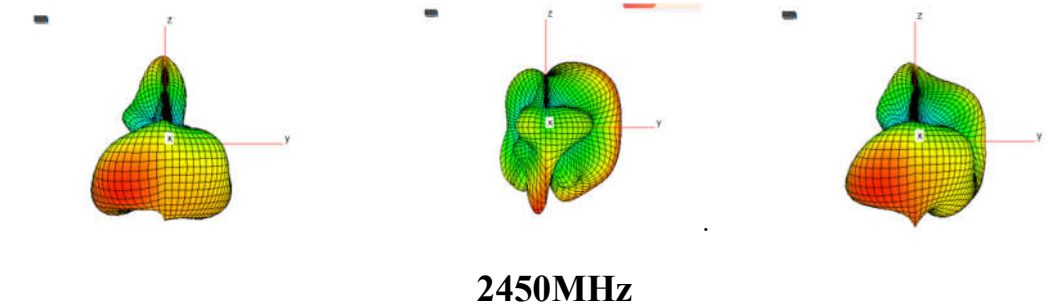
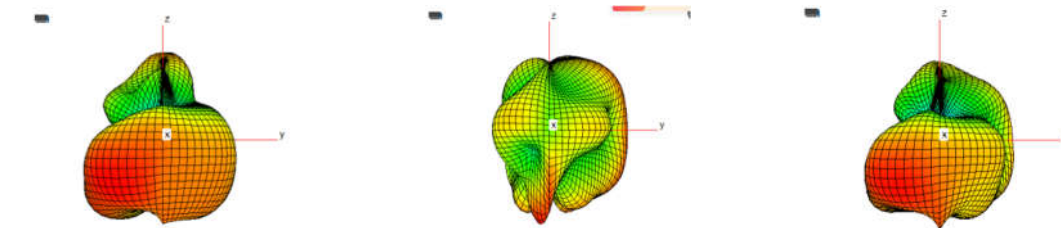


WCN Antenna :

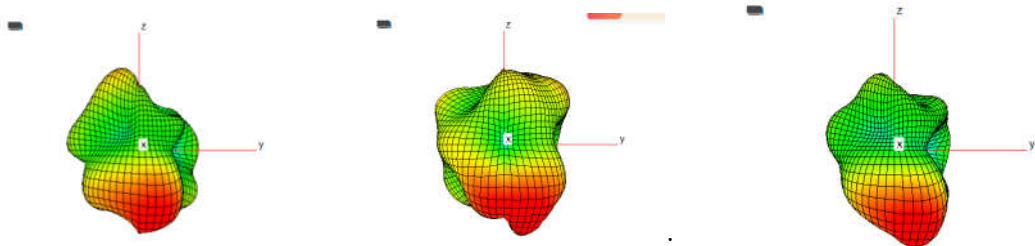
Theta

Phi

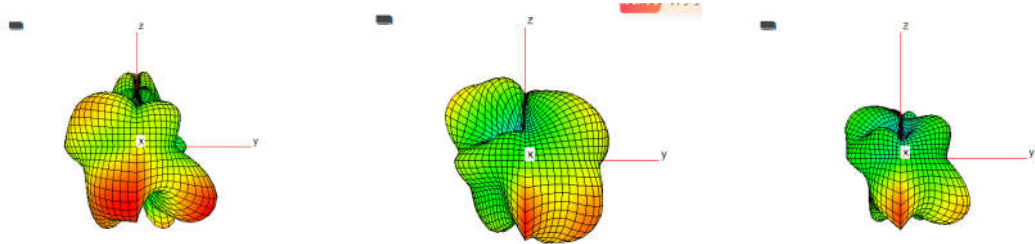
Total



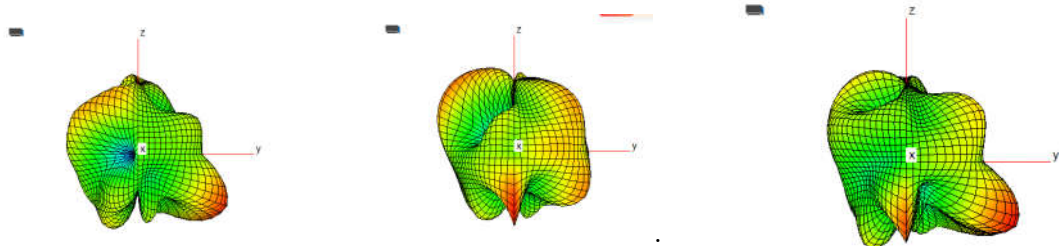
2500MHz



5150MHz



5550MHz



5850MHz