

---

# Antenna Reports

Main Antenna vendor: Motorola

Test lab: Motorola internal lab (by GTS RayZone2800)

Antenna model name: Midframe

Issue date: 2024/01/03

Documented by:

*Tao Changhu*

## Antenna Summary Table

Check items	Information
Provided by lab	Motorola internal lab (by GTS RayZone2800)
Manufacturer/ Brand name	Motorola
Manufacturer address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Model name (Part number)	Midframe
Test environment	Motorola Shanghai RD team Lab with GTS RayZone2800 chamber
Test software	MaxSign Libra
List of calibrated test equipment	GTS RayZone2800 with calibrated date: On October 23, 2022
Antenna detail info.	<p>ANT3: WiFi2.4G antenna (2.4~2.5GHz), Metal type antenna.</p> <p>ANT4:WiFi 5G / 6E antenna(5.15~7.125GHz), Metal antenna.</p> <p>ANT5: WiFi 5G / 6E antenna(5.15~7.125GHz), Metal antenna.</p> <p>ANT6:WiFi 2.4G antenna (2.4~2.5GHz), Metal antenna.</p> <p>NFC Antenna: Differential port to excite LDS coil + Ferrite sheet with dimension 32.79 mm *22.1mm * 0.25mm</p> <p>WPT antenna:Differential port to excite FPC coil + nano crystal sheet with dimension Diameter 50mm*0.4mm(Thickness)</p>
Antenna gain test data	Included antenna frequency, gain pattern

Note: Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document.

**ANT3/4/5/6**

Antenna model name: Midframe

BT/WLAN CH0 Peak Gain (dBi)			
2400~2483.5MHz	-6.7 dBi	6E UNII-5	-8.5 dBi
5150~5250MHz	-7.8 dBi	6E UNII-6	-8.9 dBi
5250~5350MHz	-7.5 dBi	6E UNII-7	-9.3 dBi
5470~5725MHz	-7.4 dBi	6E UNII-8	-9.8 dBi
5725~5850MHz	-7.3 dBi		

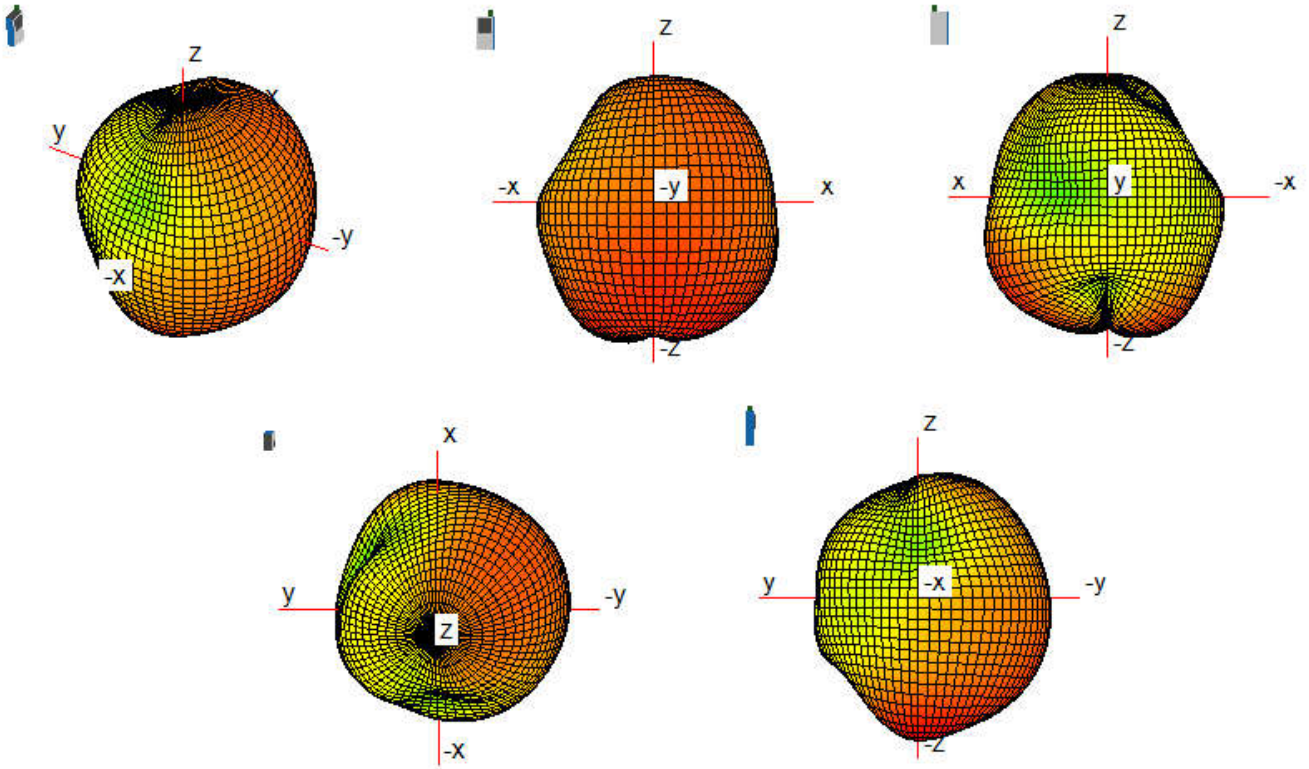
BT/WLAN CH1 Peak Gain (dBi)			
2400~2483.5MHz	-5.7 dBi	6E UNII-5	-9.2 dBi
5150~5250MHz	-7.1 dBi	6E UNII-6	-9.5 dBi
5250~5350MHz	-6.9 dBi	6E UNII-7	-9.6 dBi
5470~5725MHz	-6.7 dBi	6E UNII-8	-9.8 dBi

5725~5850MHz

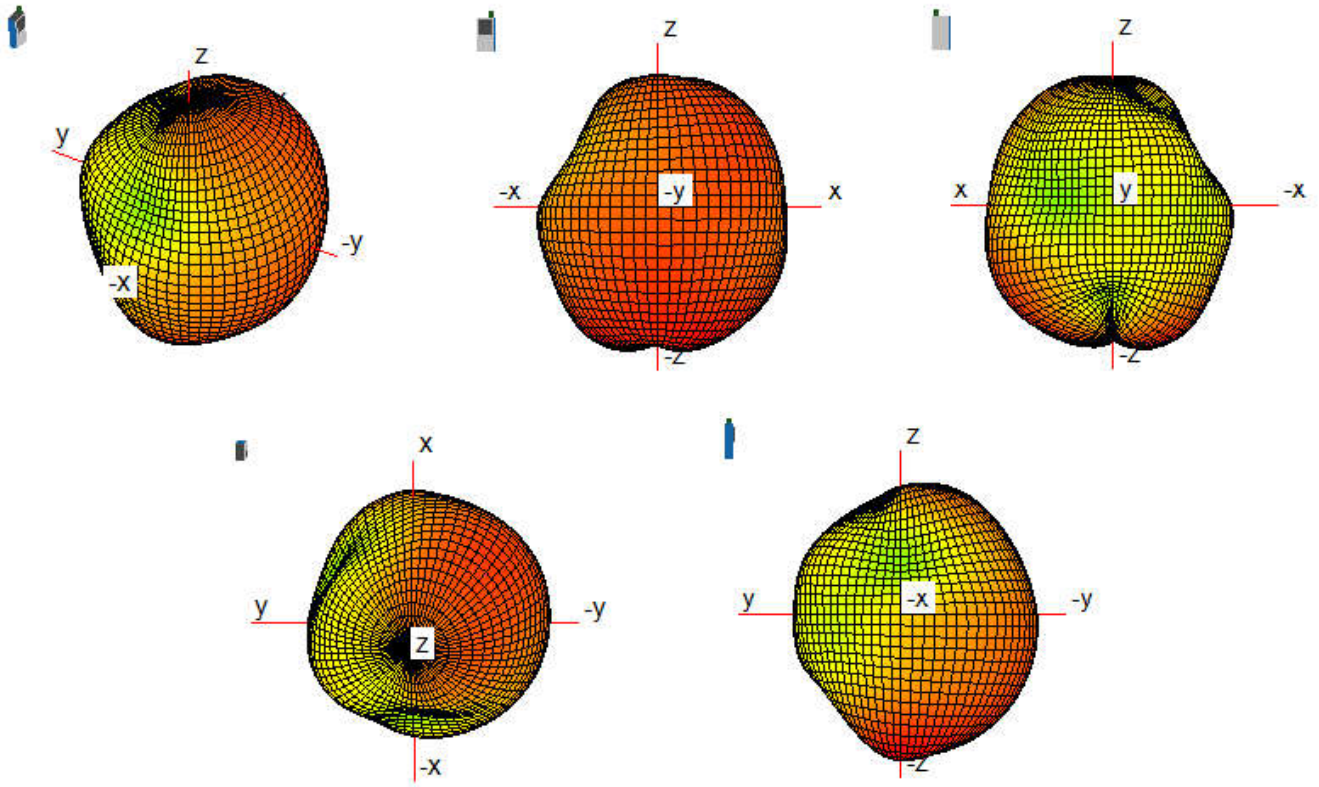
-7.3 dBi

ANT6- WiFi 2.4G CH0

2420MHz

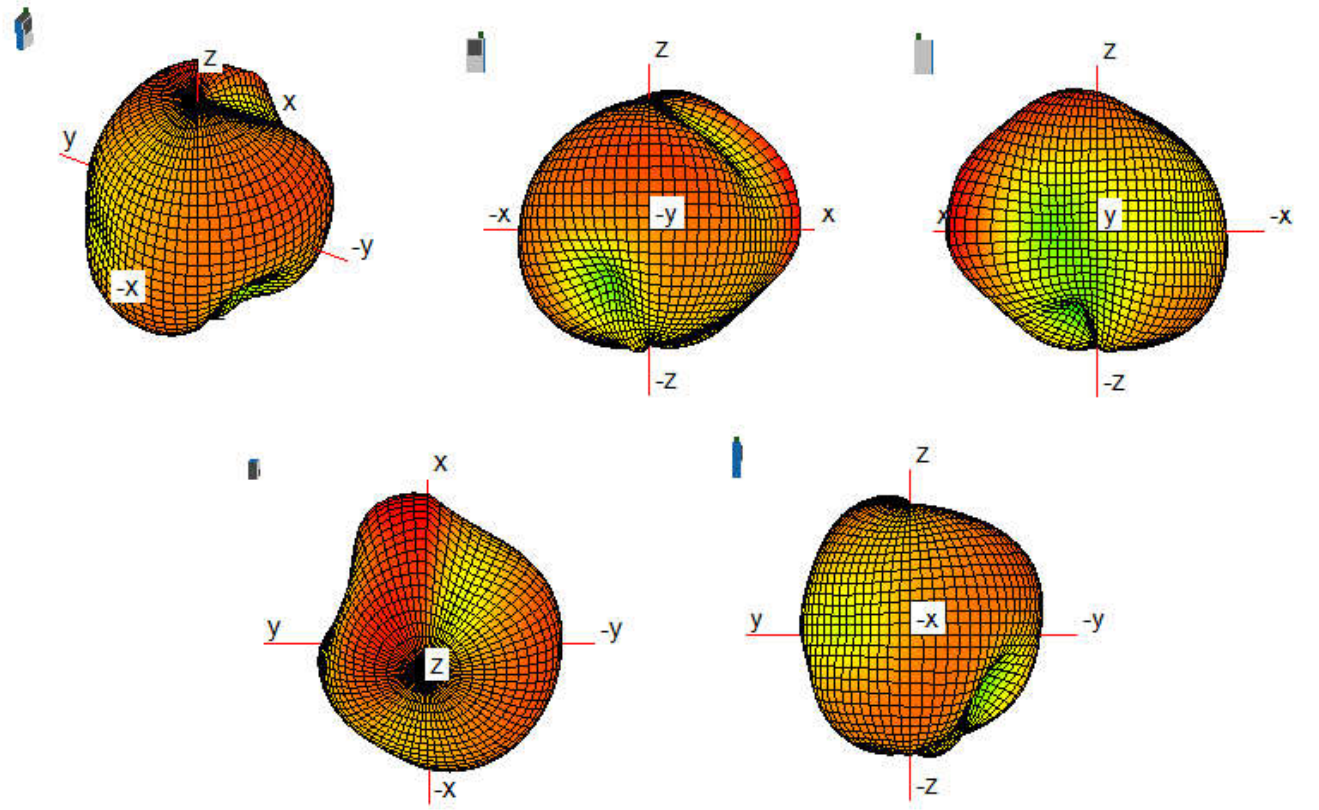


2450MHz

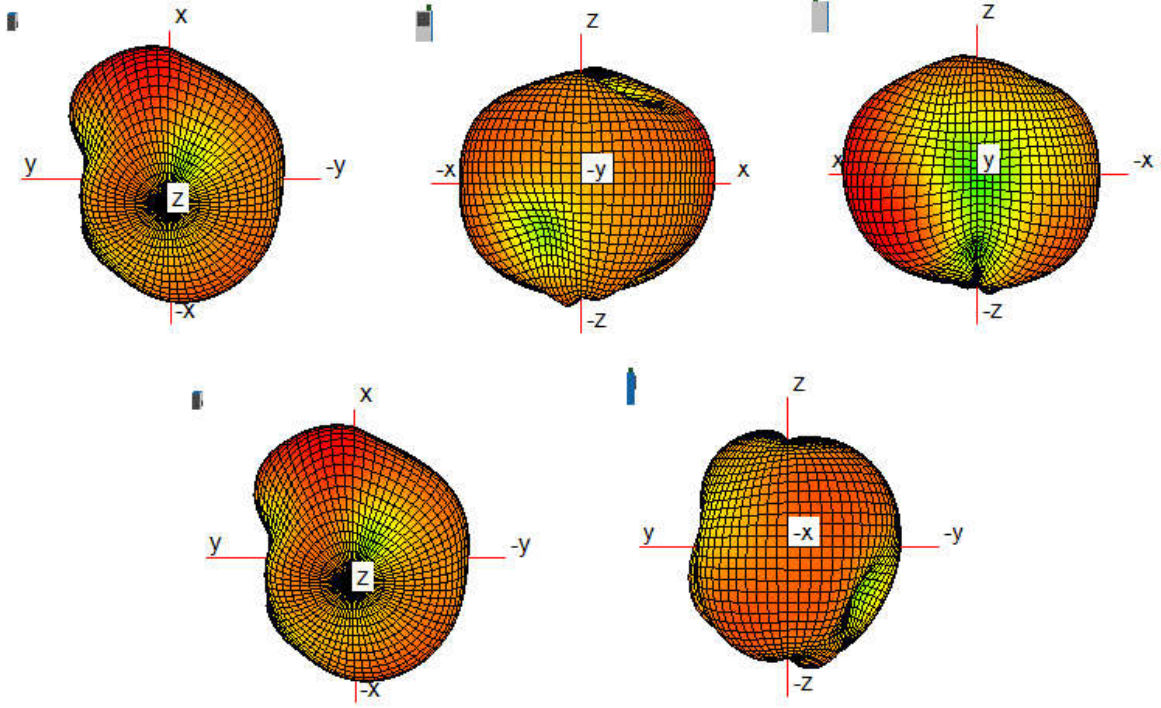


**ANT4-WIFI 5G CH1**

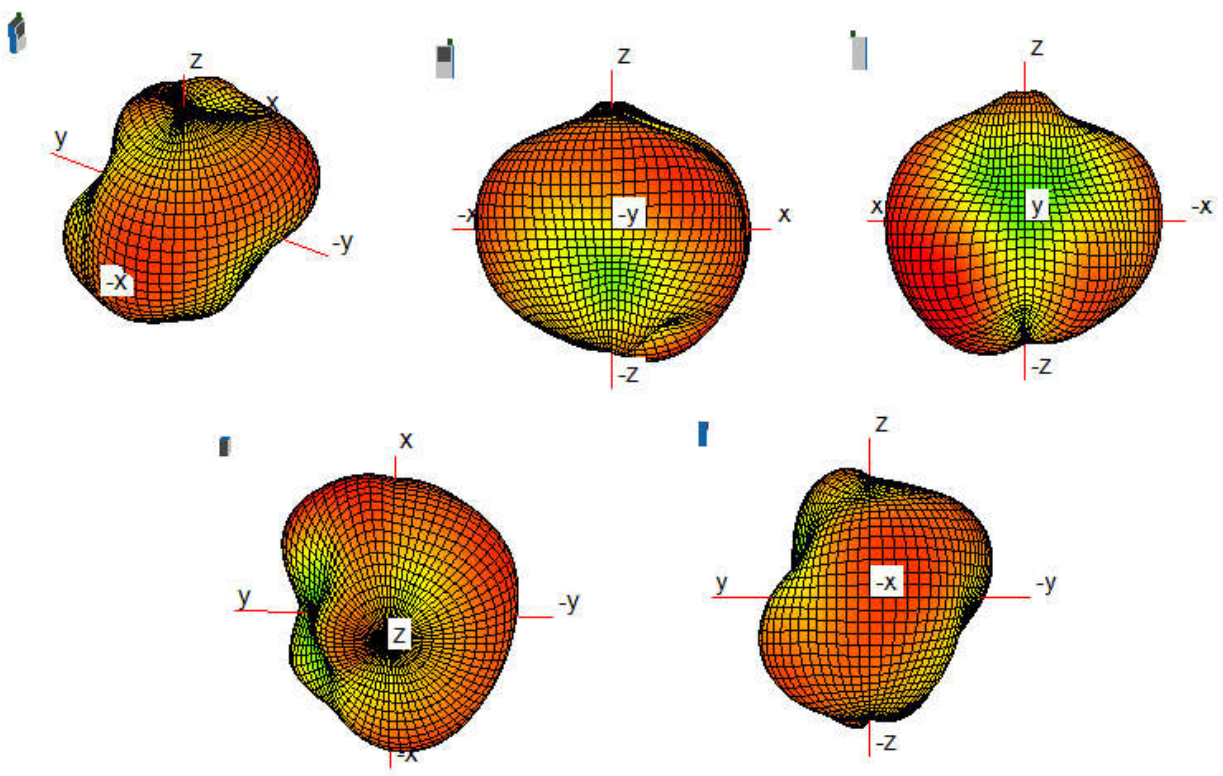
**5280MHz**



**5500MHz**



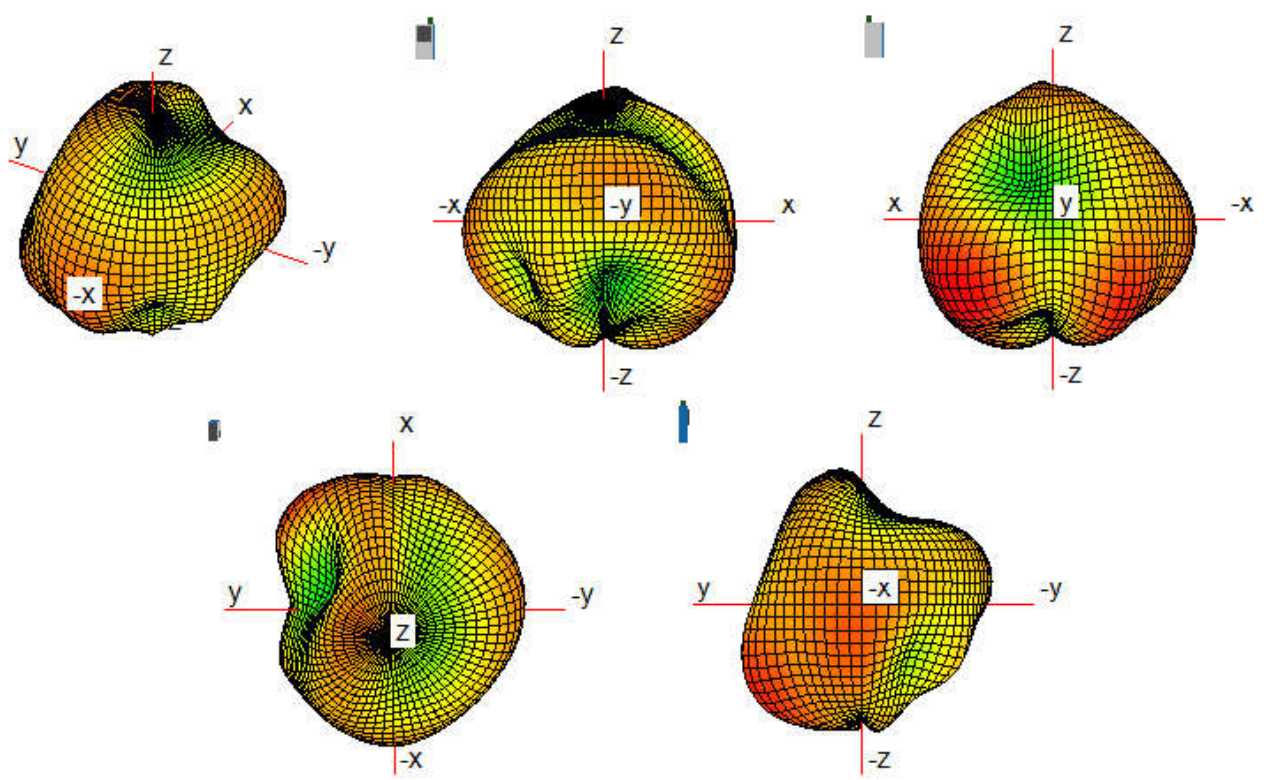
5780MHz



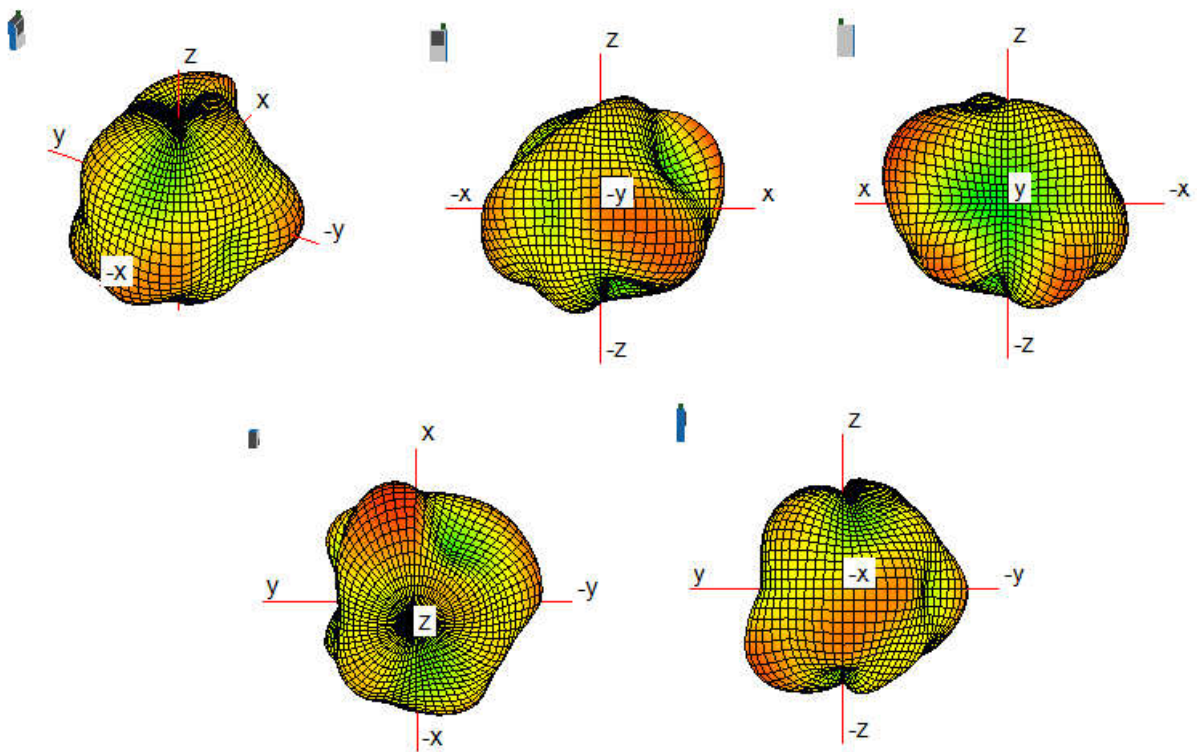
ANT4-WIFI 6E CH1



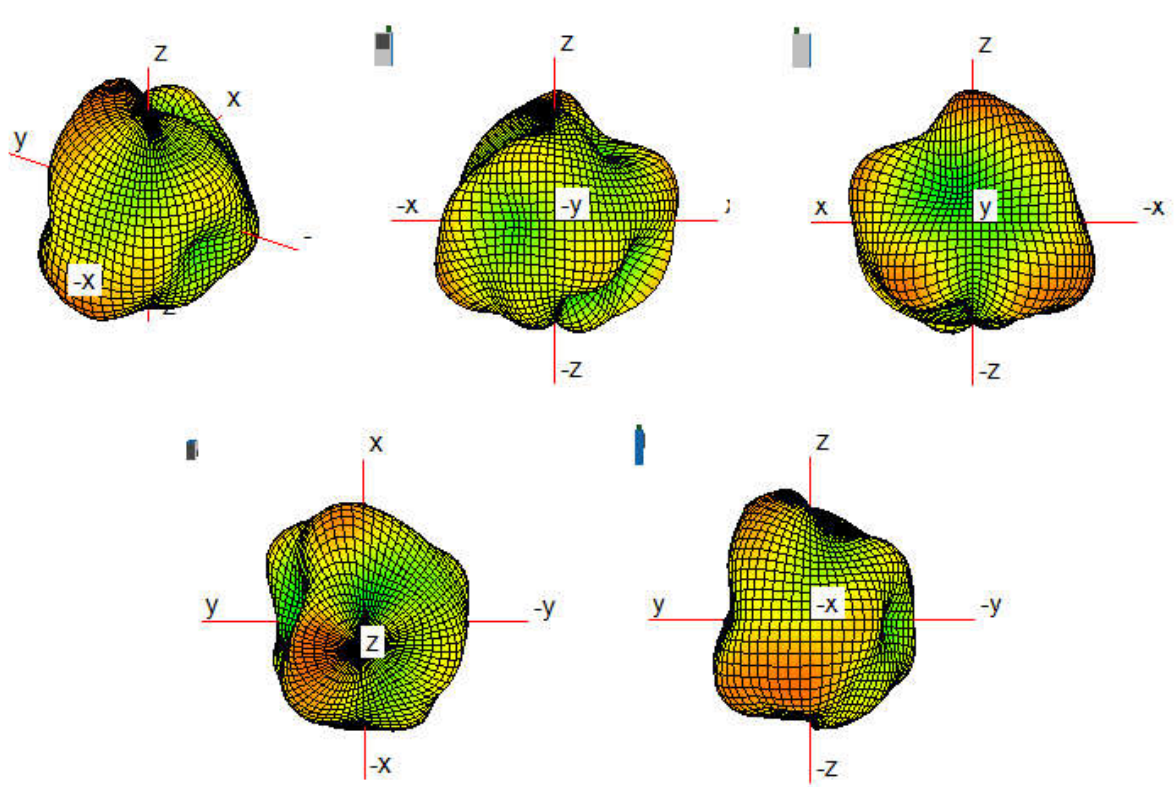
6000MHz



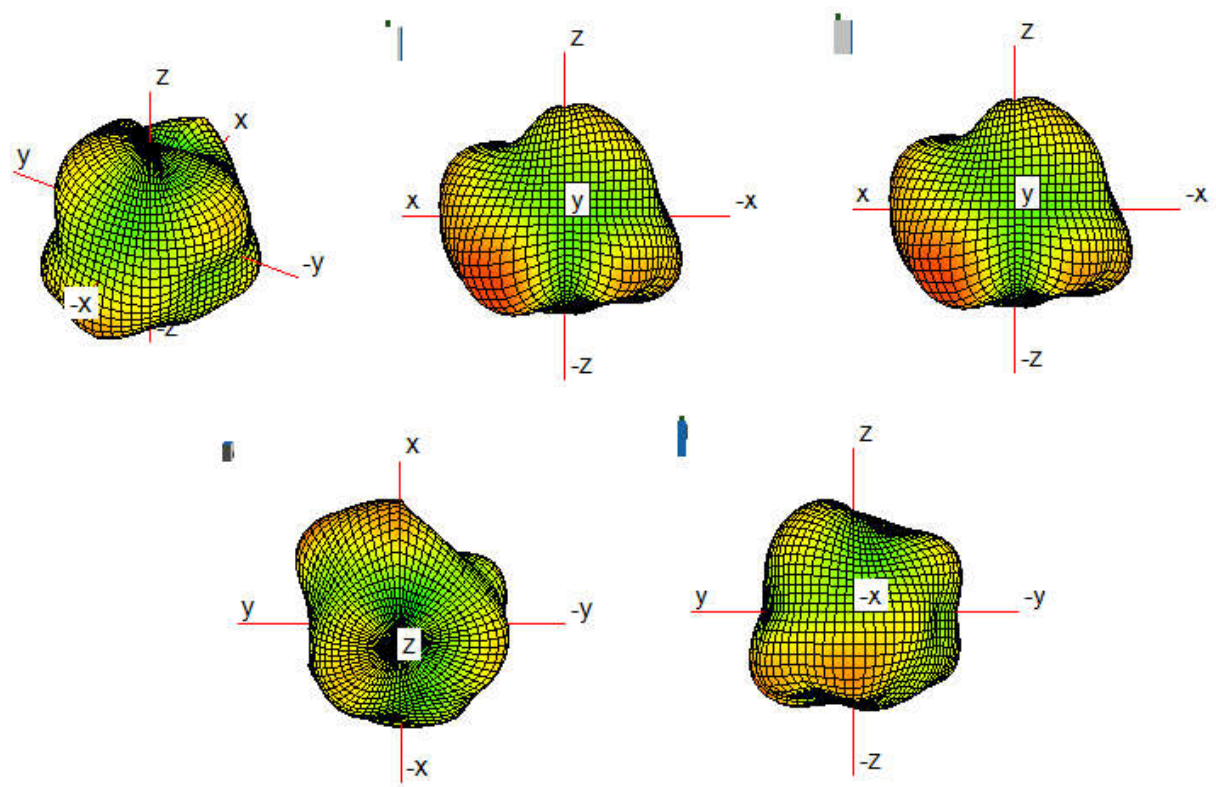
6500MHz



6800MHz

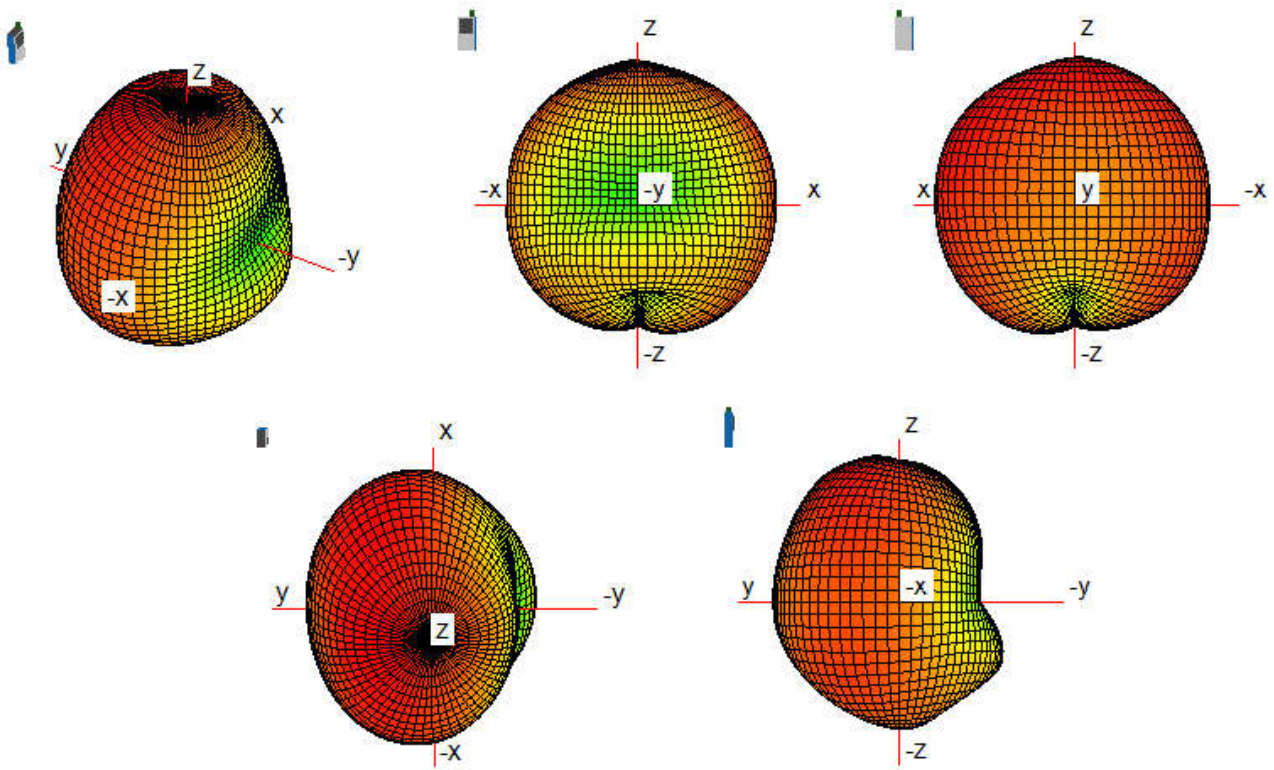


7000MHz

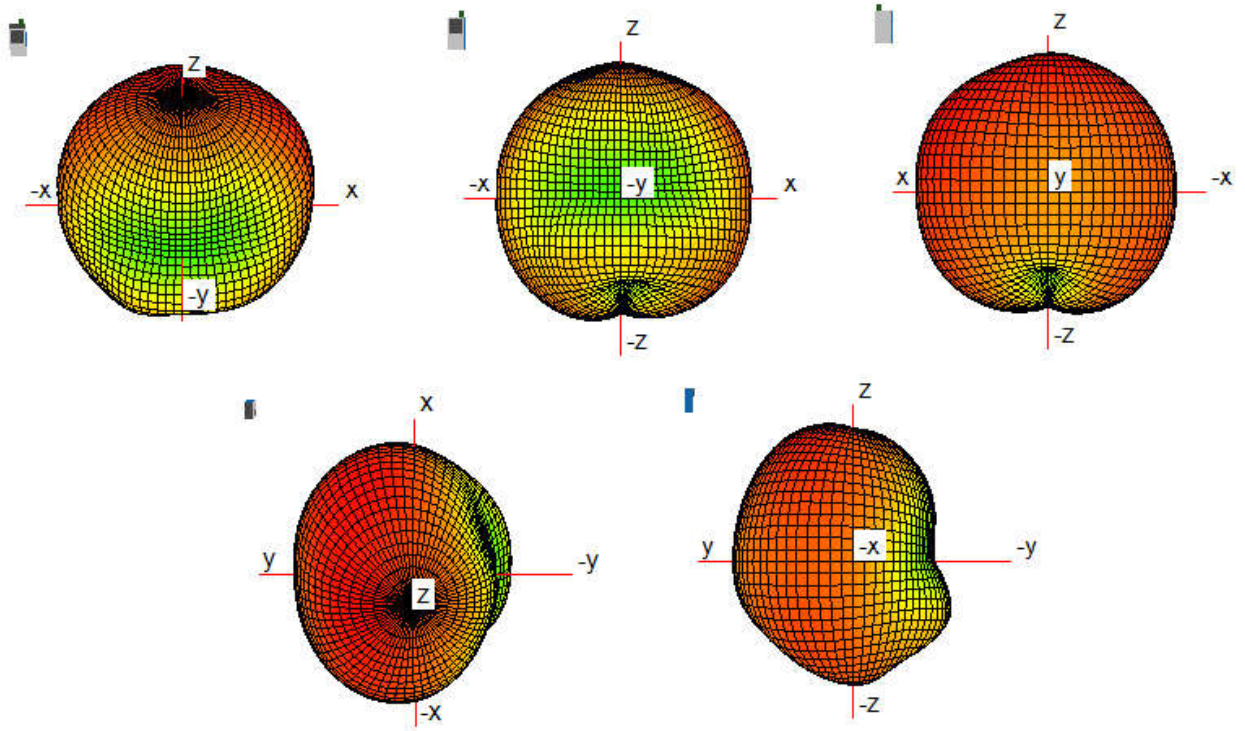


ANT3- WiFi 2.4G CH1

2420MHz



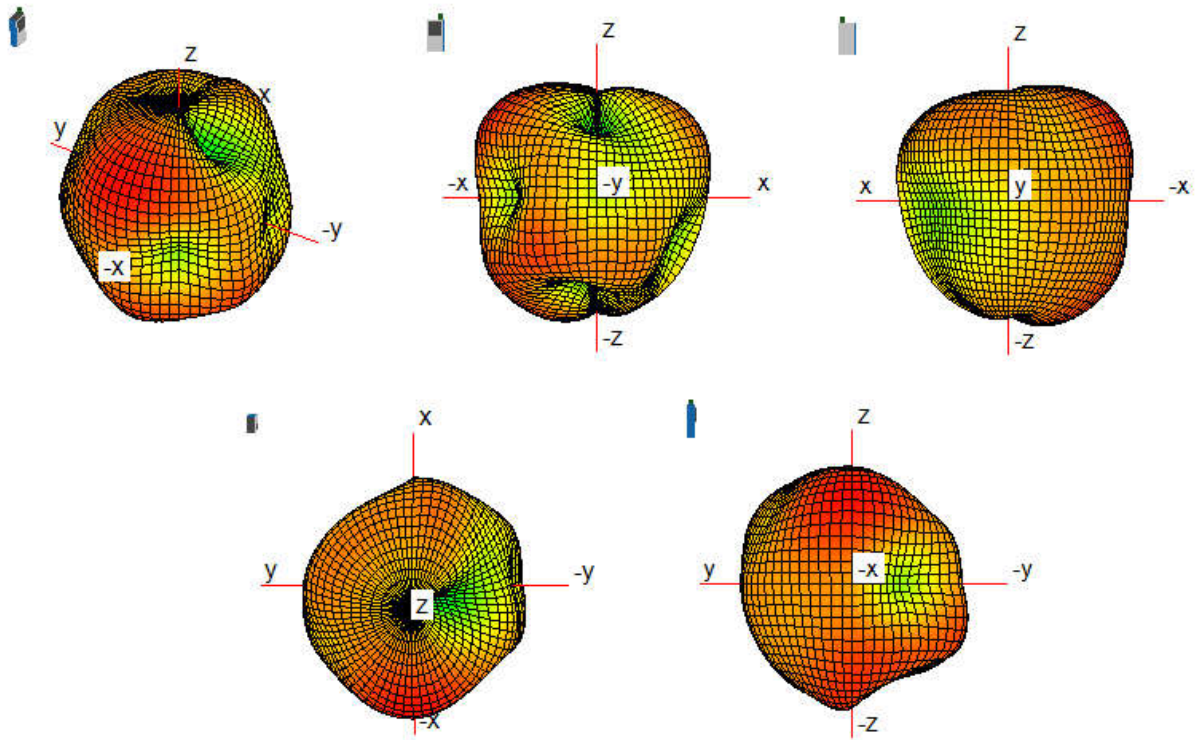
2450MHz



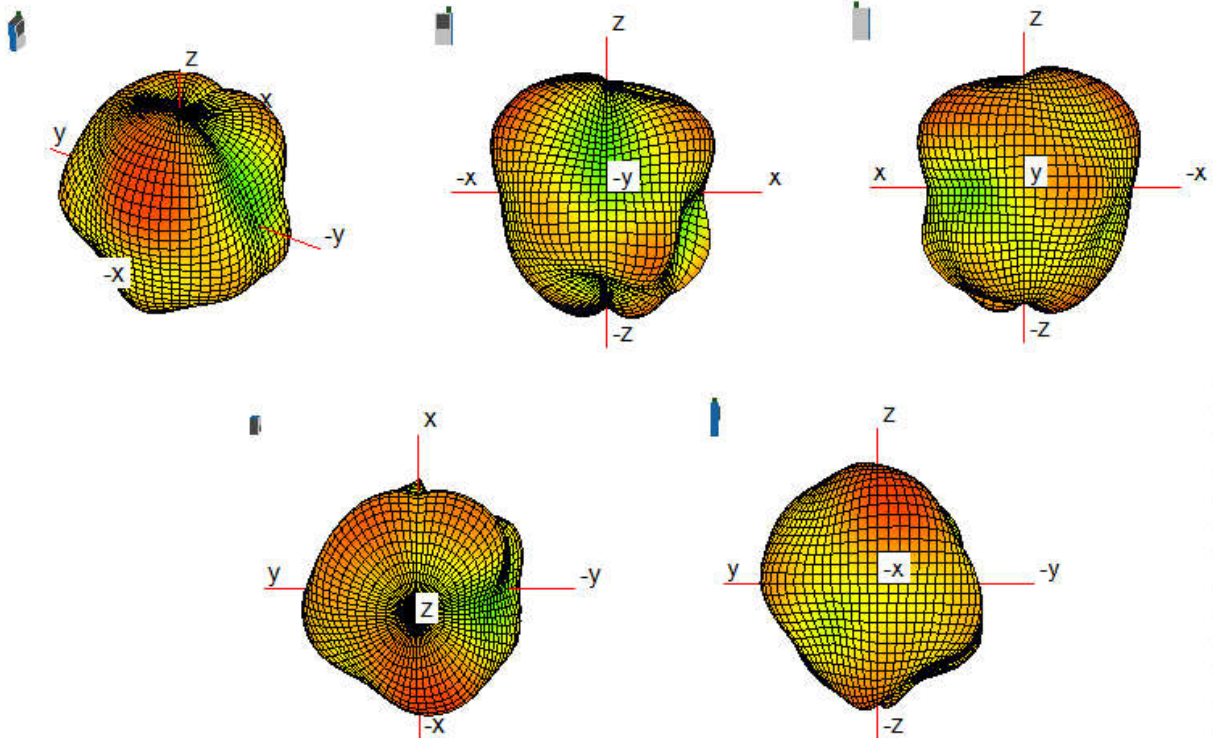
ANT5- WiFi 5G CH0



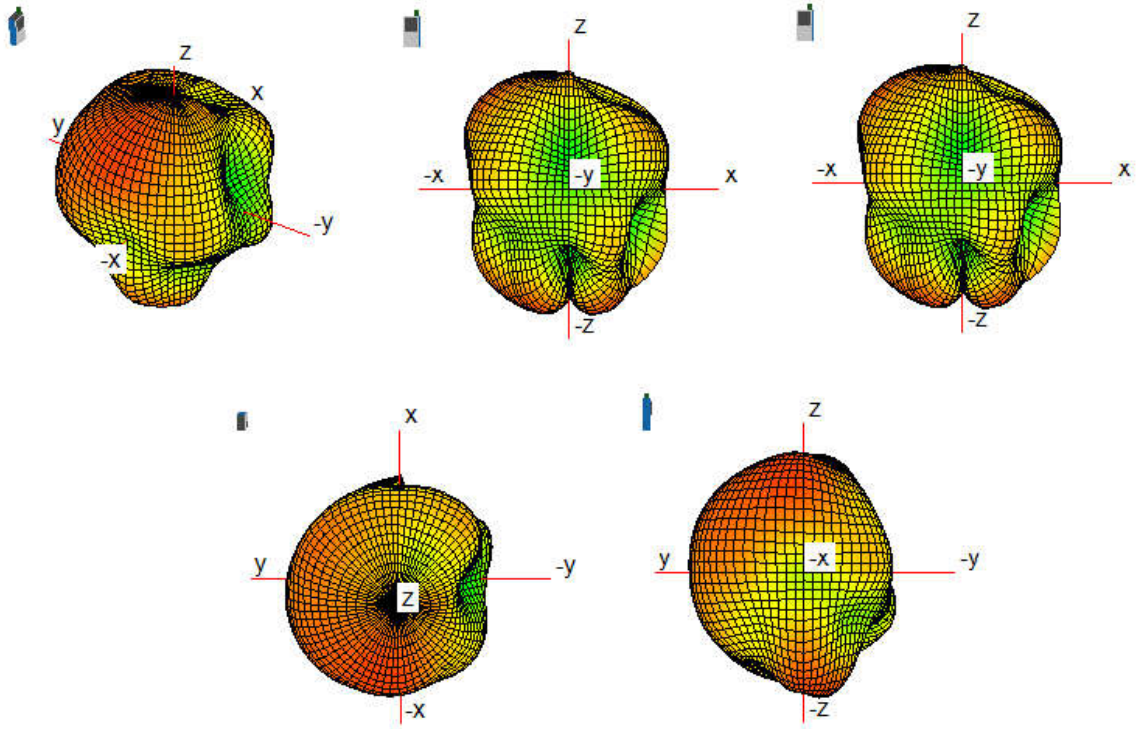
5280MHz



5500MHz

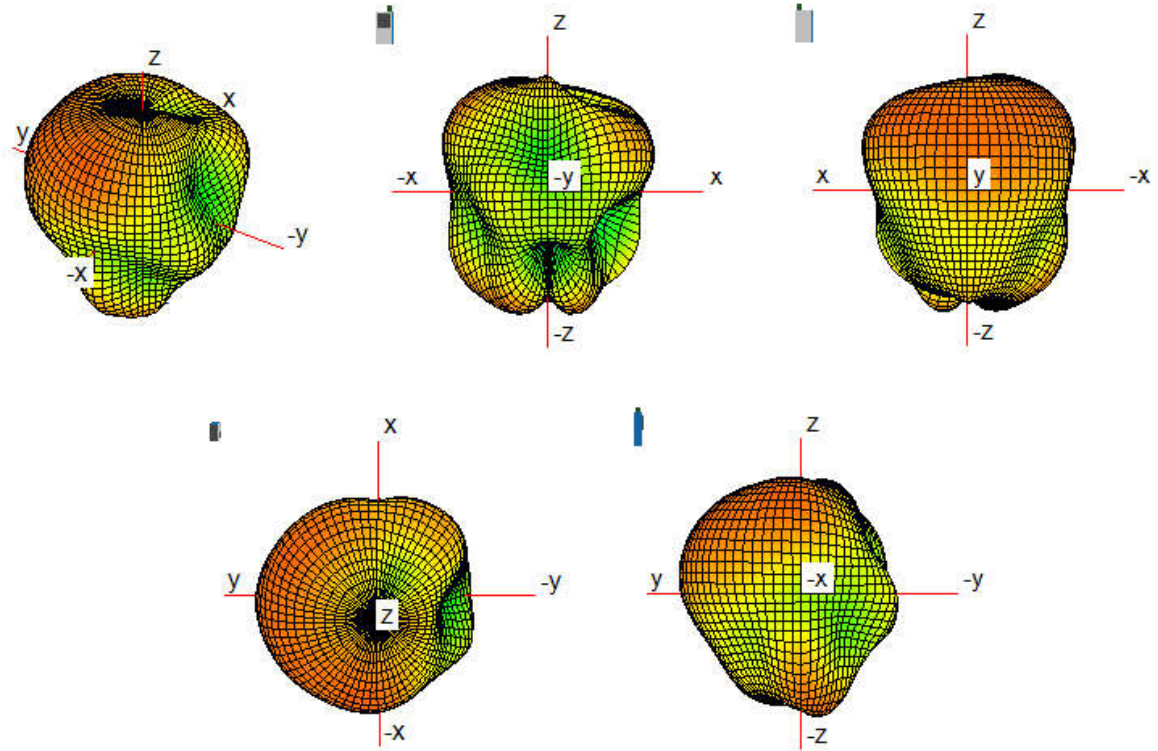


5780MHz

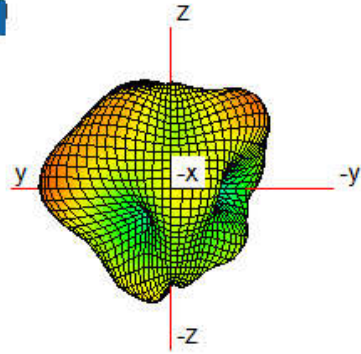
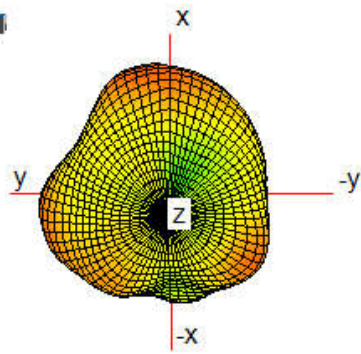
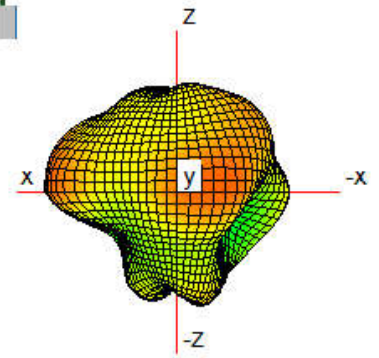
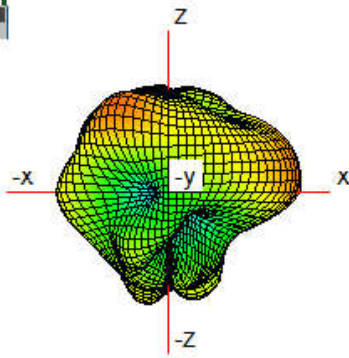
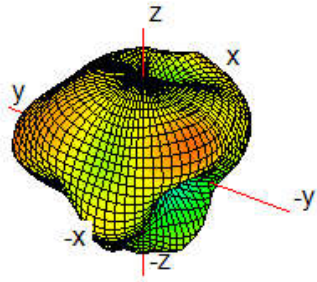


**ANT5- WiFi 6E CH0**

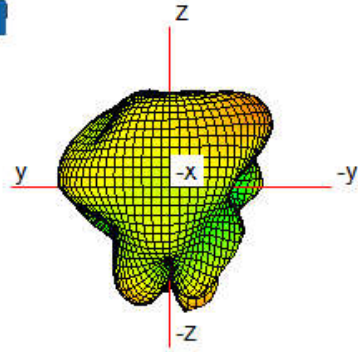
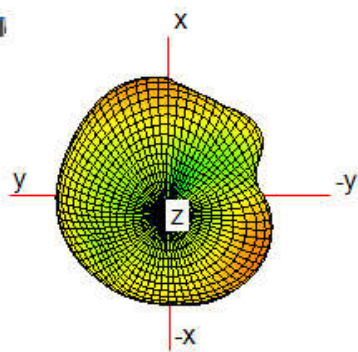
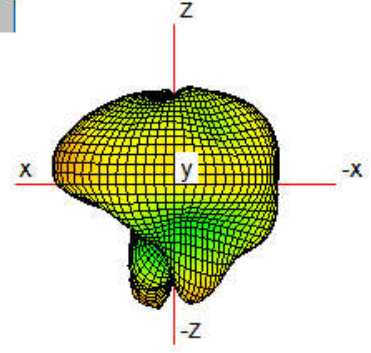
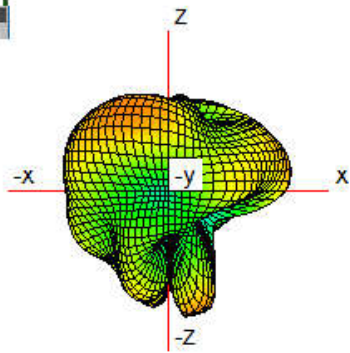
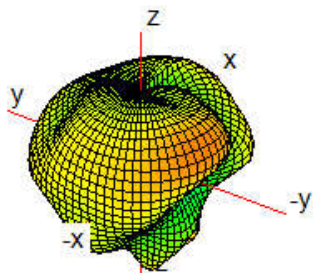
**6000MHz**



**6500MHz**



6800MHz



7000MHz



