
Antenna Reports

Company: Motorola Mobility LLC

Model name: M609

Issue date: 2026/7/8

Documented by: Hu mei

Antenna Summary Table

Check items	Information
Provided by lab	Motorola internal lab (GTS)
Manufacturer/ Brand name	Motorola
Model name (Part number)	Midframe
Test environment	Motorola Beijing RD team Lab with GTS2800 chamber
Test software	MaxSign Libra
Antenna detail info.	ANT4:WiFi5G (5.15~7.12GHz),Loop type antenna. ANT5:WiFi 2.4G(2.4~2.5GHz),UWB (6.24~6.74GHz,7.75~8.25GHz,) Loop type antenna. ANT7: GPS L5,UWB (6.24~6.74GHz,7.75~8.25GHz,) IFA type antenna. ANT9: GPS L1;WiFi 2.4G (1.575.42GHz, 2.4~2.5GHz),WiFi5G (5.15~5.85GHz), Loop type antenna. NFC Antenna: Differential port to excite Coil Loop + Ferrite sheet with dimension 49.8mm*51.5mm WLC antenna: Copper Coil and dimensions 48*47
Antenna gain test data	Details are as follows

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

List of Test equipment

Equipment	Calibrate data	Due data	Remark
GTS RayZone2800	October 15,2025	October 15,2026	Self-monitor monthly to ensure the variation within 0.5db during the cycle.
CMW500	October 13,2025	October 13,2026	N/A

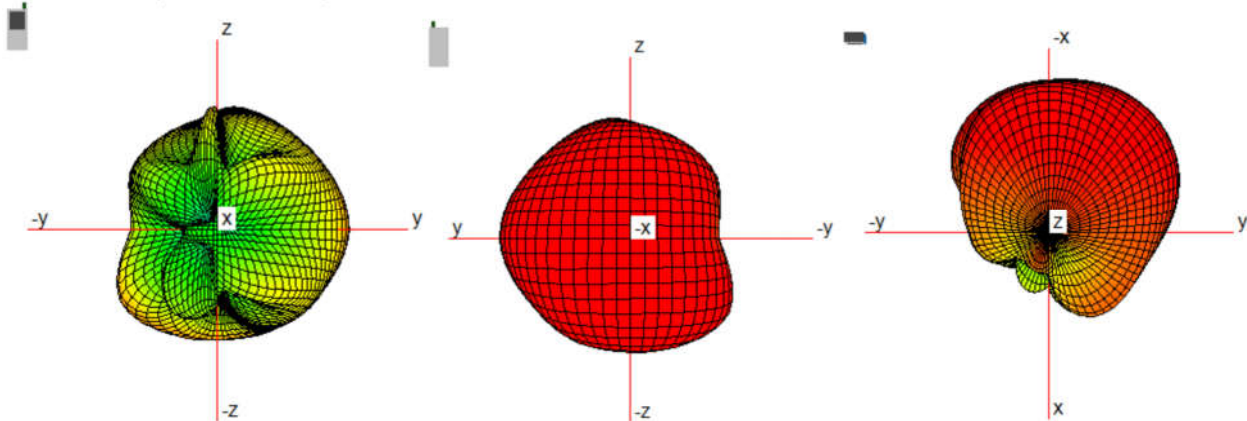
ANT4

Antenna type: Loop

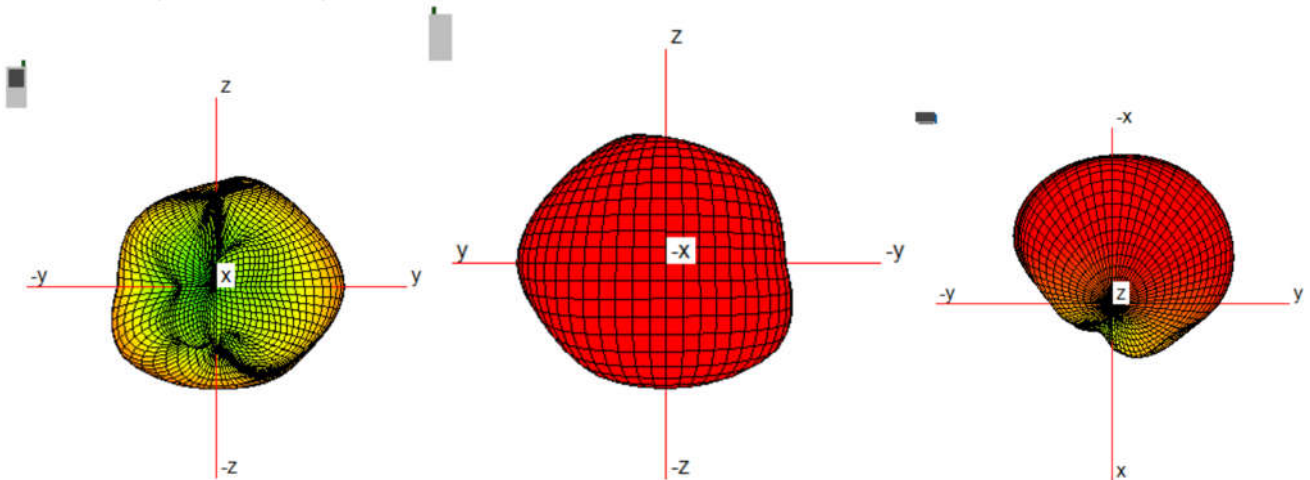
WLAN Peak Gain (dBi)			
5150~5250MHz	-4	5925~6425MHz	-4.4
5250~5350MHz	-2.8	6425~6525MHz	-5.9
5470~5725MHz	-3.4	6525~6875MHz	-5.4
5725~5850MHz	-5.7	6875~7125MHz	-5.4

(Rear view– Front view)

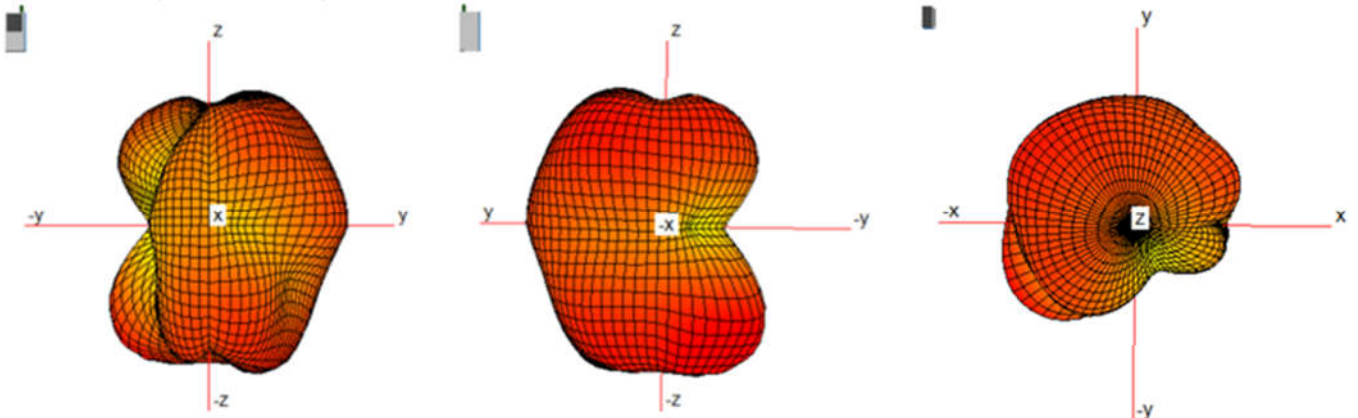
WIFI 5G (5200 MHz)



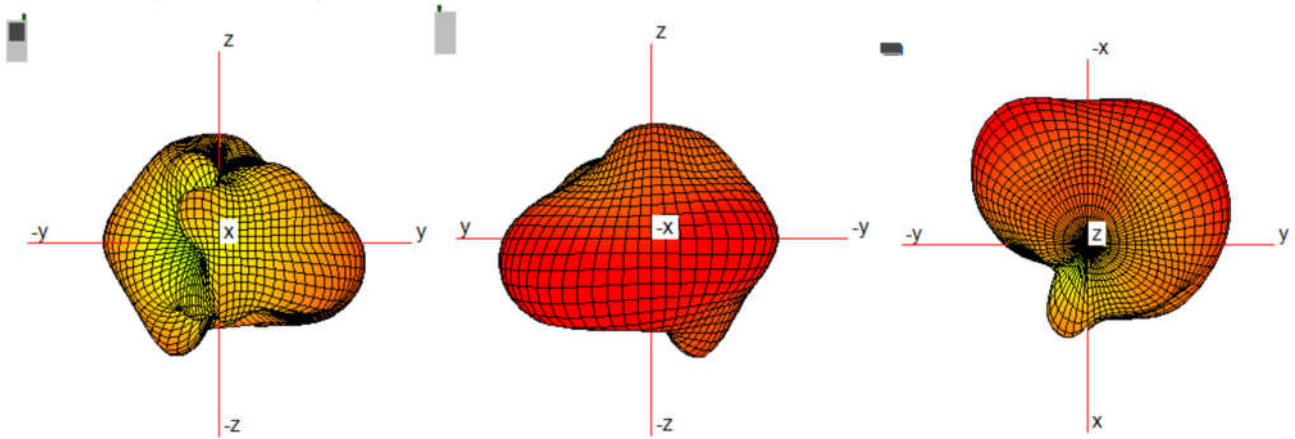
WIFI 5G (5300 MHz)



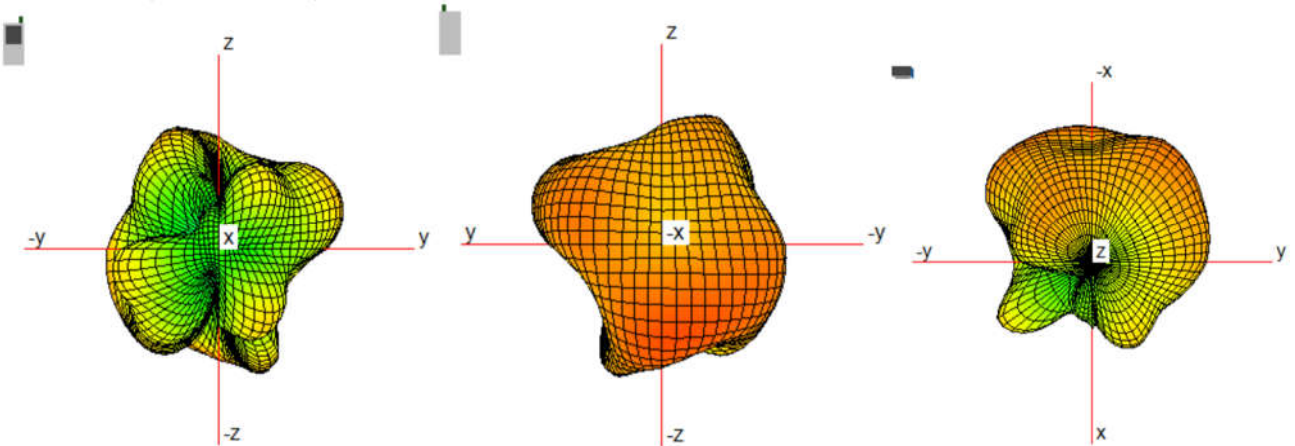
WIFI 5G (5500 MHz)



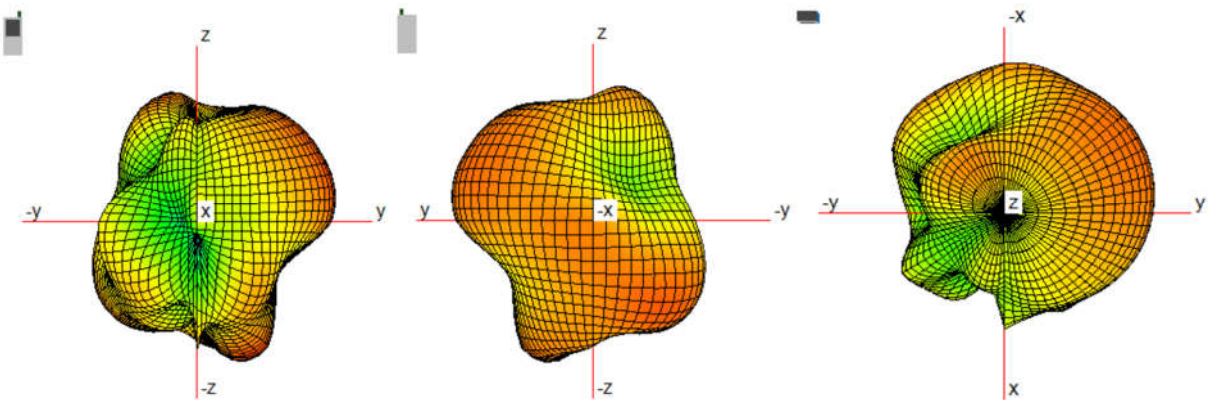
WIFI 5G (5800 MHz)



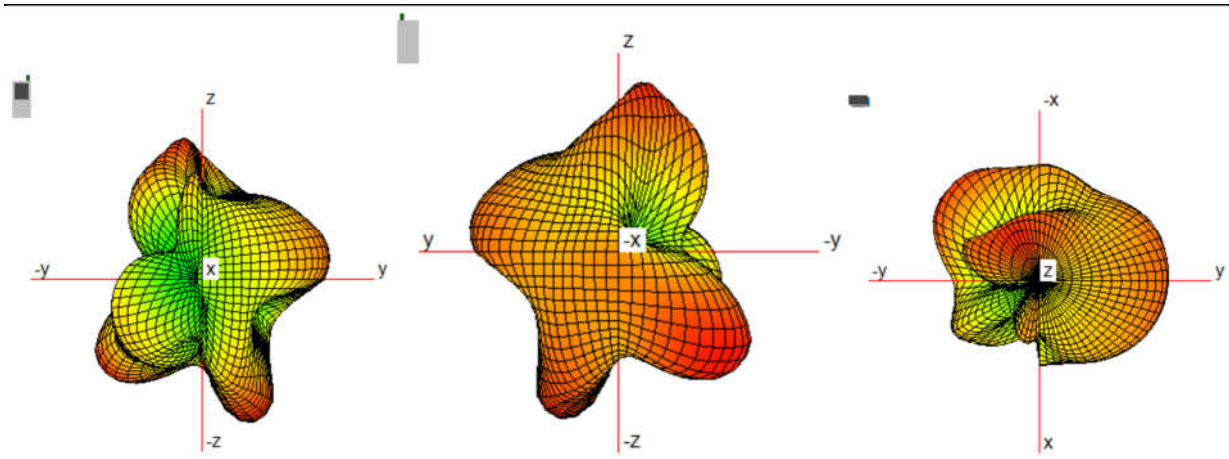
WIFI 6E (6175 MHz)



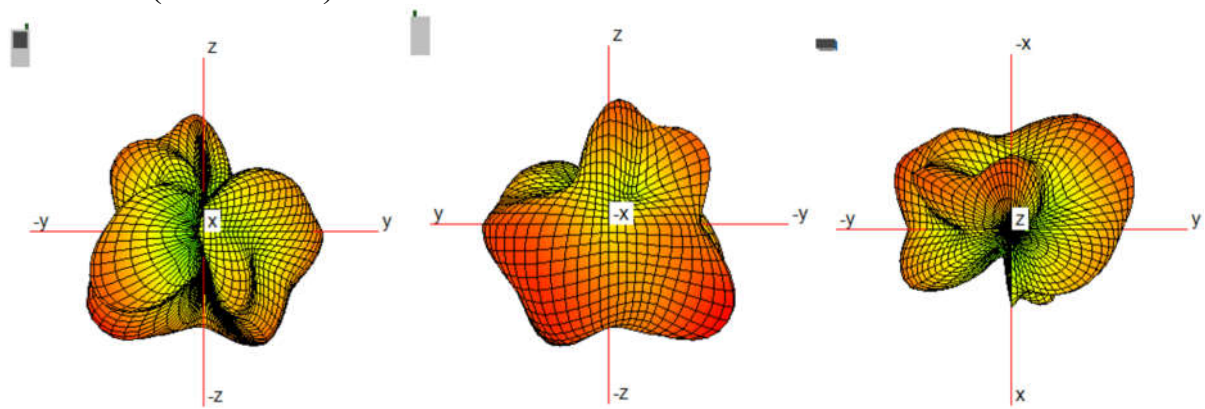
WIFI 6E (6475 MHz)



WIFI 6E (6700 MHz)



WIFI 6E (7000 MHz)



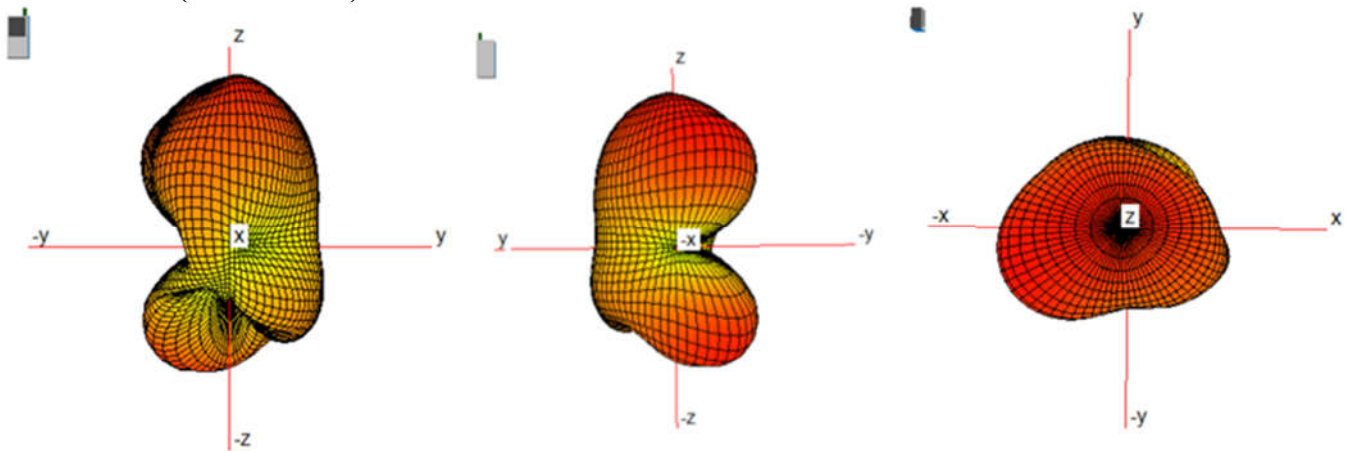
ANT5

Antenna type: Loop

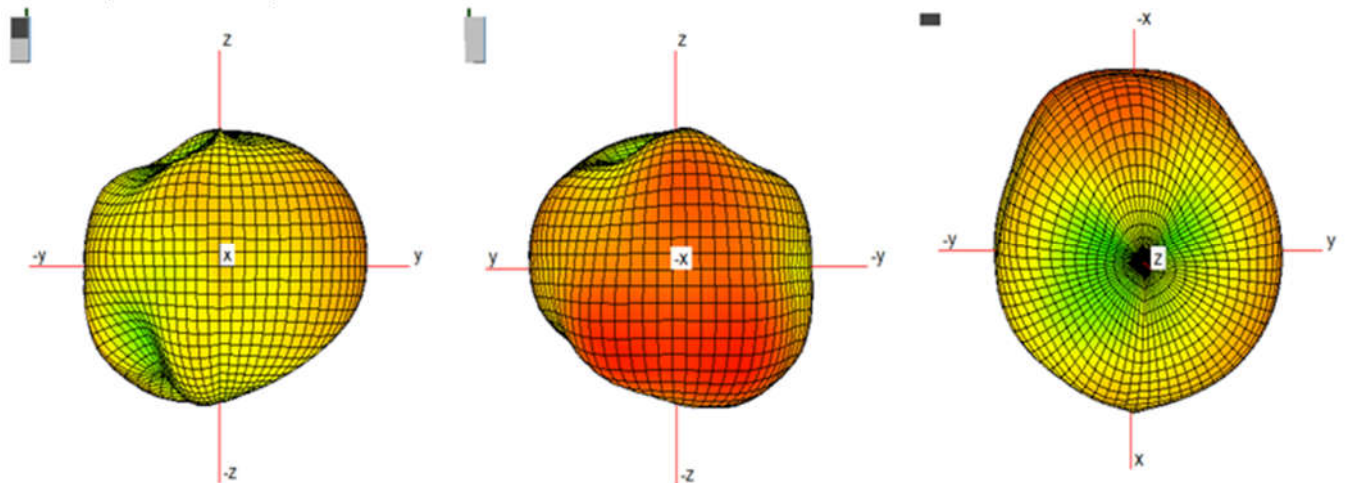
BT/WLAN Peak Gain (dBi)			
2400~2483.5MHz	-3.5		

UWB Peak Gain (dBi)			
6240~6740MHz	-3.7	7750~8250MHz	-3.9

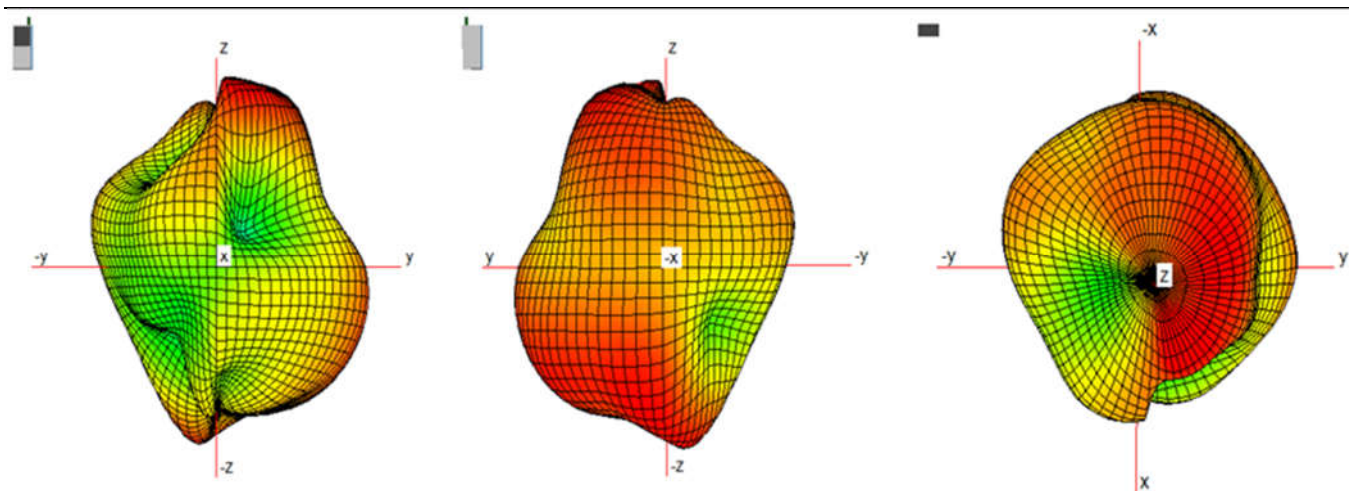
(Rear view– Front view)
WIFI 2.4G (2450 MHz)



UWB (6490 MHz)



UWB (8000 MHz)

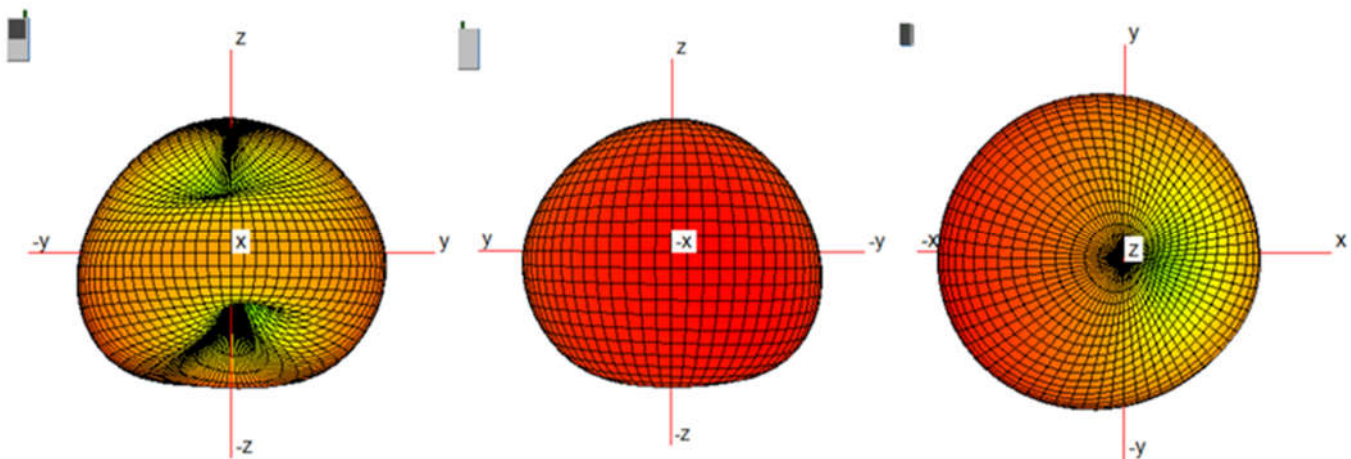


ANT7

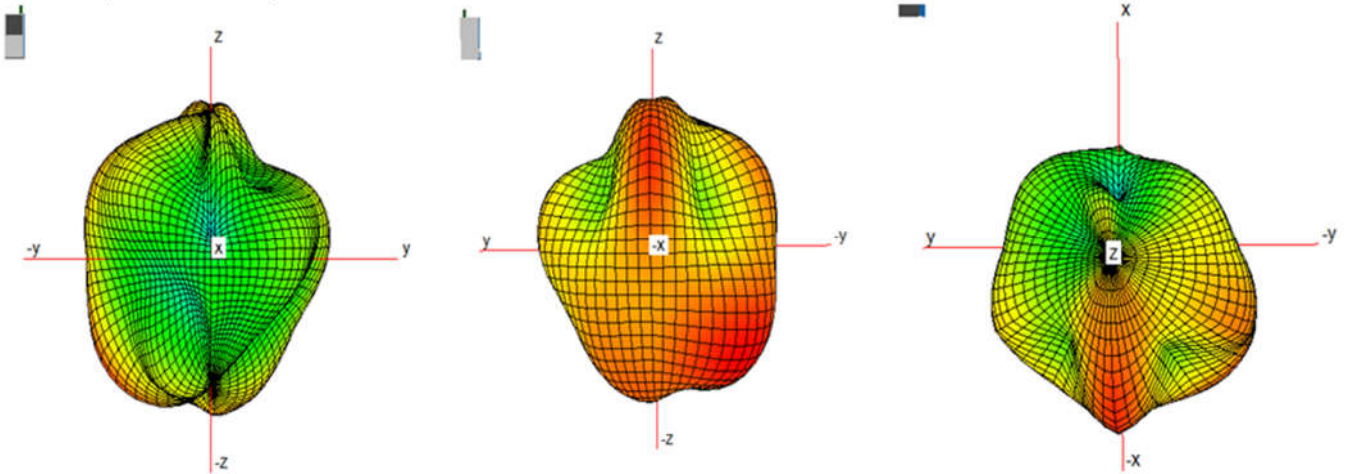
Antenna type: IFA

UWB Peak Gain (dBi)			
6240~6740MHz	-3.6	7750~8250MHz	-4.5

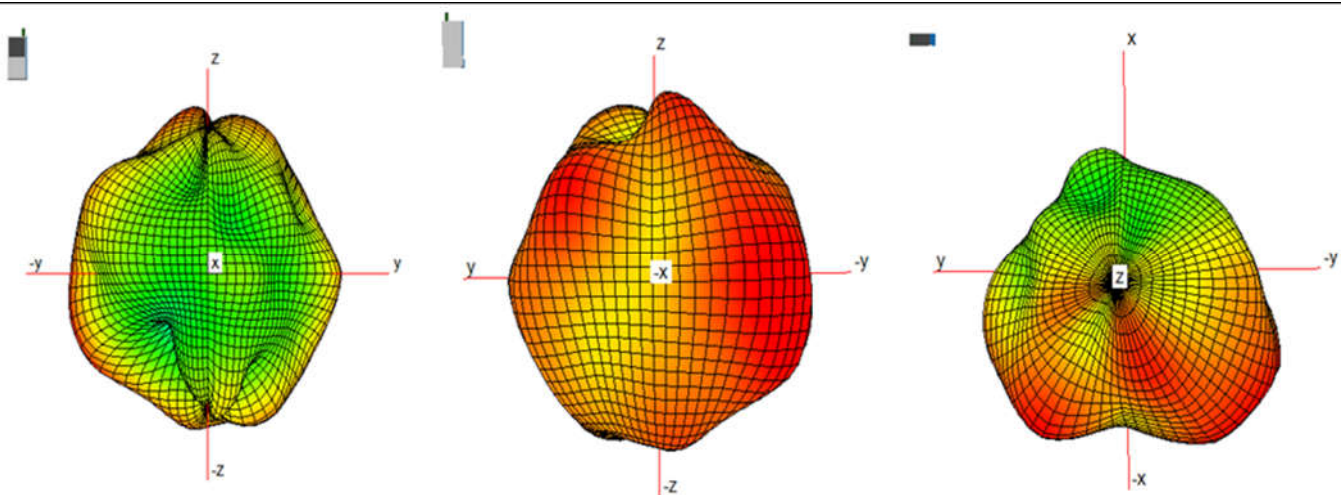
(Rear view– Front view)
GPS L5



UWB (6490 MHz)



UWB (8000 MHz)



ANT9

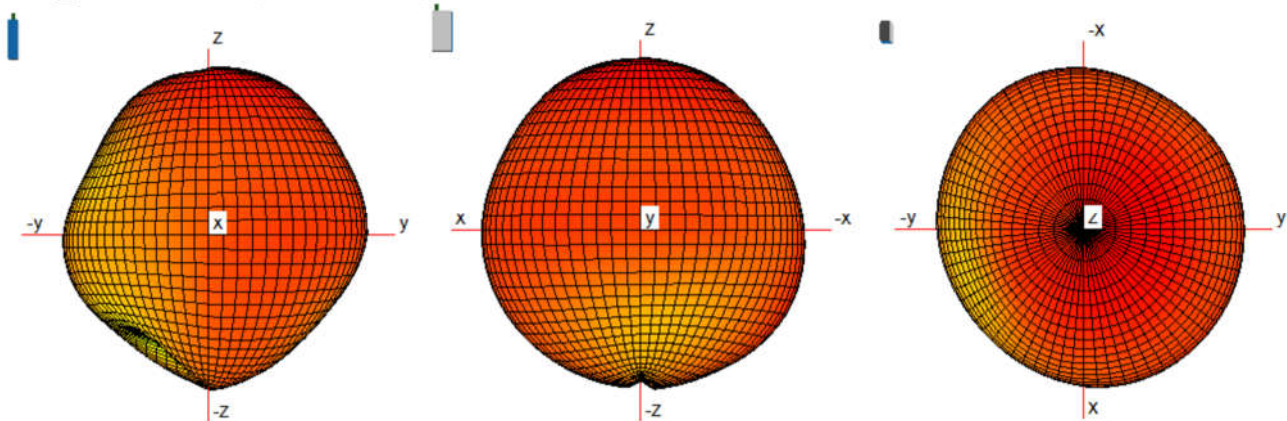
Antenna type: Loop

GPS +BT/WLAN Peak Gain (dBi)			
1575MHz	-	2400~2483.5MHz	-4.2

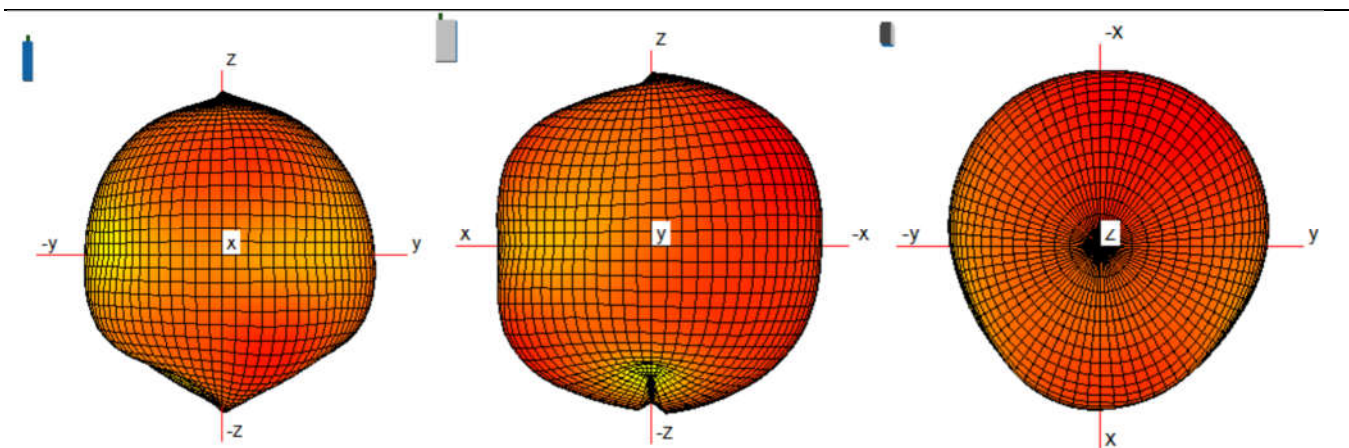
WLAN Peak Gain (dBi)			
5150~5250MHz	-4.9	5925~6425MHz	-4.2
5250~5350MHz	-4	6425~6525MHz	-5.2
5470~5725MHz	-2.3	6525~6875MHz	-5.2
5725~5850MHz	-1.7	6875~7125MHz	-5.4

(Rear view– Front view)

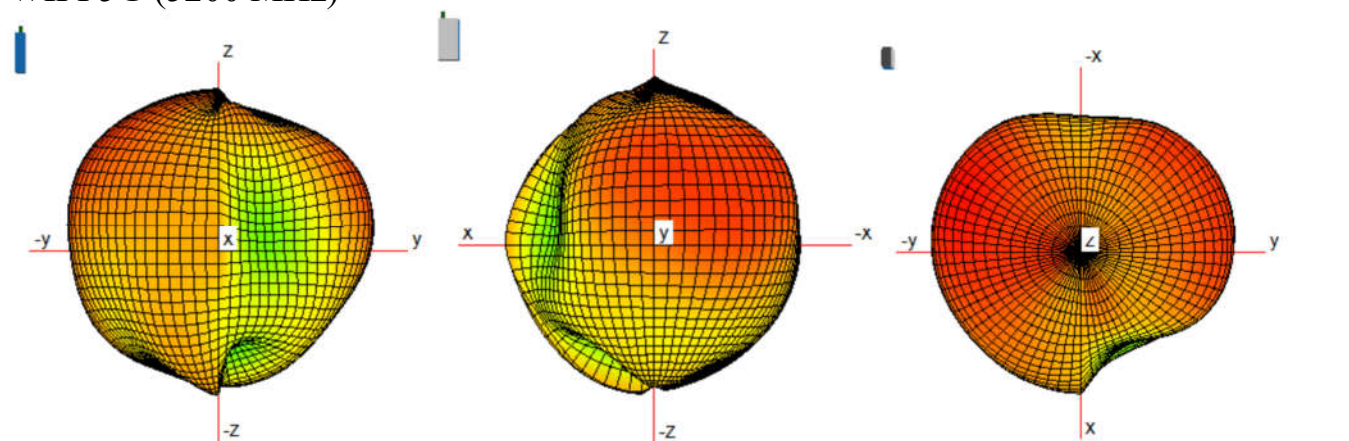
GPS_L1 1.575G (1575 MHz)



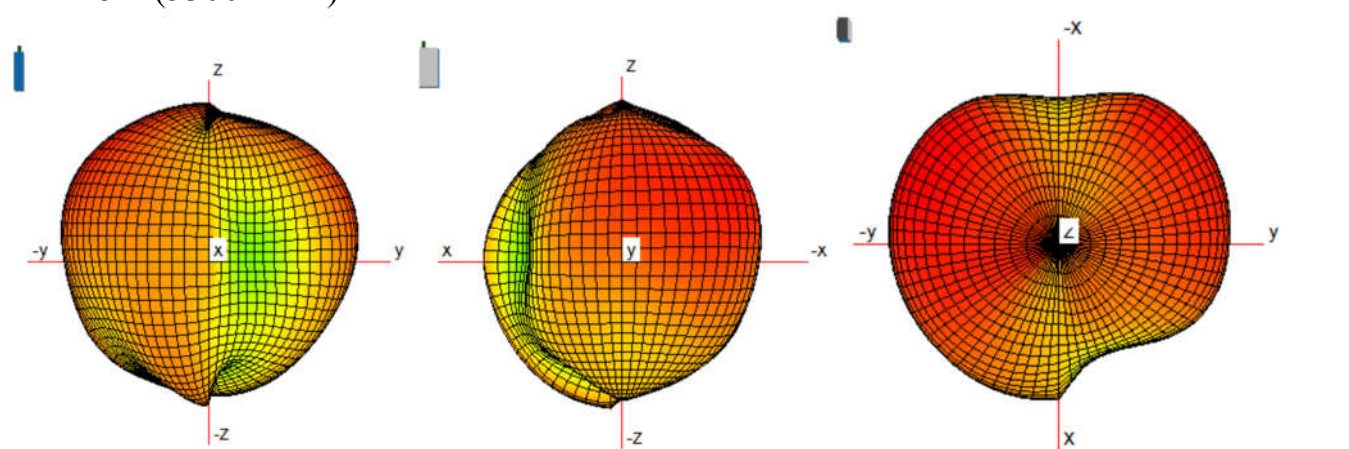
WIFI 2.4G (2450 MHz)



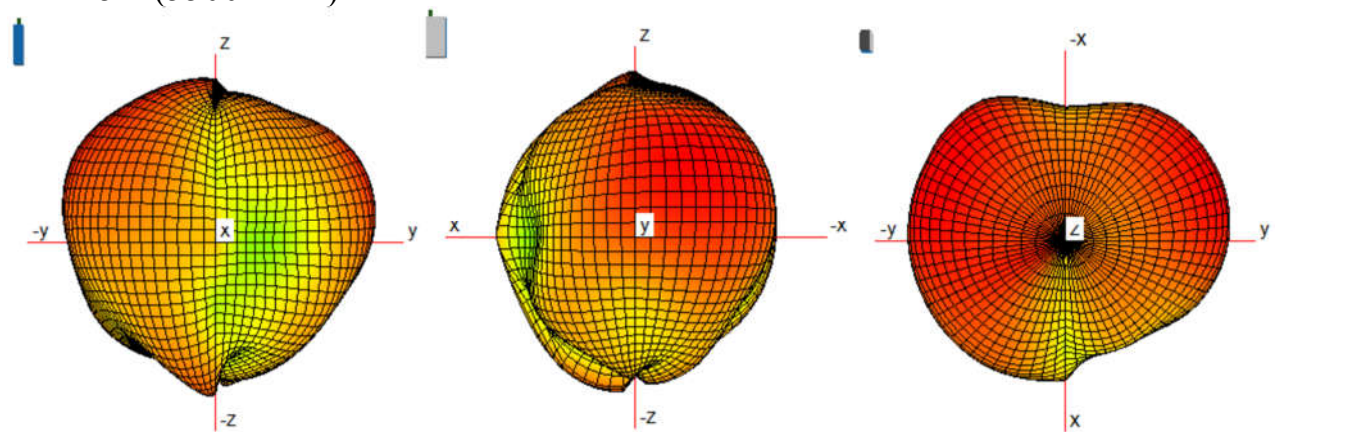
WIFI 5G (5200 MHz)



WIFI 5G (5300 MHz)



WIFI 5G (5500 MHz)



WIFI 5G (5800 MHz)

