
Antenna Reports

Company: Motorola Mobility LLC

Model name: Midframe

Issue date: 2025/02/10

Documented by: *Xia Cang*

Antenna Summary Table

Check items	Information
Provided by lab	Motorola internal lab (GTS)
Manufacturer/ Brand name	Motorola
Model name (Part number)	Insert molding metal and LDS
Test software	GTS MaxSign
Antenna detail info.	Show WLAN/BT/ NFC only, no WWAN ANT3:GPS; WiFi 2.4G(1.575GHz,(2.4~2.5GHz), Loop type ANT5: WiFi 2.4G (2.4~2.5GHz), IFA type antenna. ANT6: WiFi5G (5.15~5.85GHz)+Wifi6E, Loop type antenna. ANT7: WiFi5G(5.15~5.85GHz)+Wifi6E, Loop type antenna. ANT10: WiFi5G(5.15~5.85GHz)+Wifi6E, IFA type antenna. NFC Antenna: Differential port to excite LDS coil + Ferrite sheet with dimension 31.3 mm *15.9mm. LDS width is 8~12μm
Antenna gain test data	Included antenna frequency, gain pattern

List of test Equipment

Equipment	Calibrate date	Due date	Remark
GTS RayZone2800	On November 7, 2023	On November 6, 2026	N/A
MT8821C	On November 4, 2024	On November 3, 2025	N/A

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

Antenna Test data:

ANT3

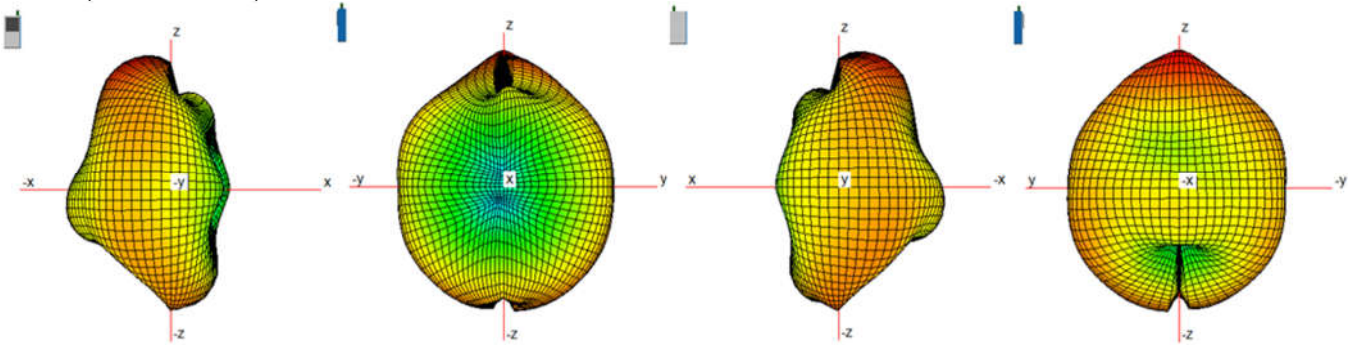
Antenna model name: Insert molding metal

Antenna type: Loop

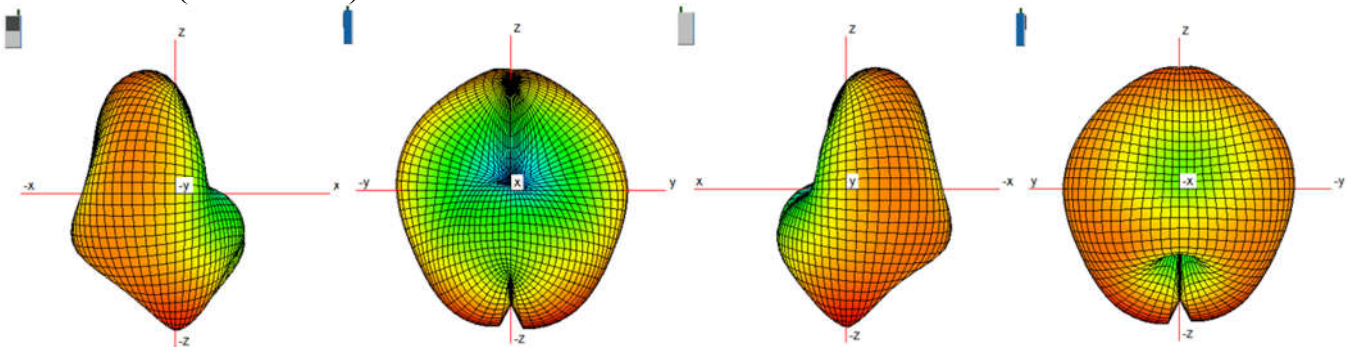
GPS +BT/WLAN Peak Gain (dBi)			
1575MHz		2400~2483.5MHz	-5.8

(Rear view– Front view)

GPS (1575 MHz)



WIFI 2.4G (2450 MHz)



ANT5

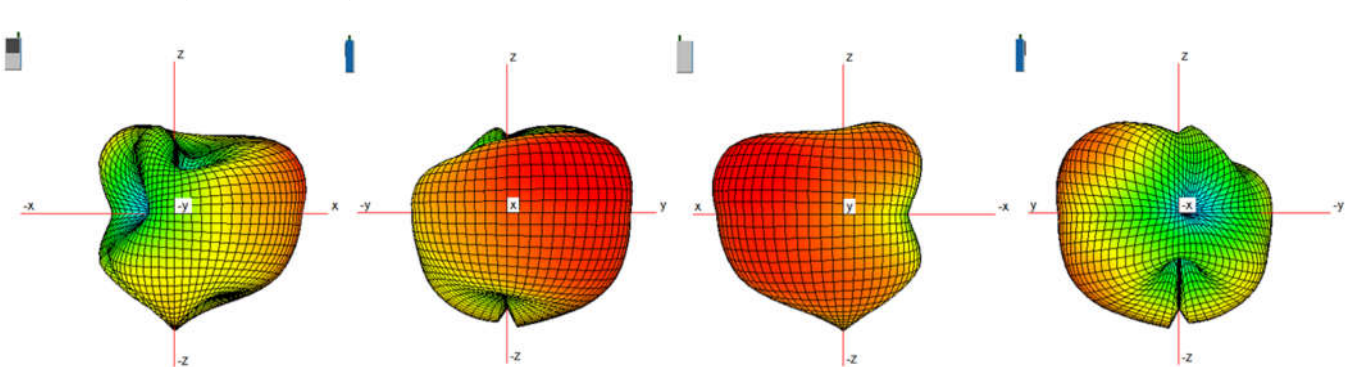
Antenna model name: Insert molding metal

Antenna type: IFA

WLAN Peak Gain (dBi)	
2400~2483.5MHz	-7

(Rear view– Front view)

WIFI 2.4G (2450 MHz)



ANT6

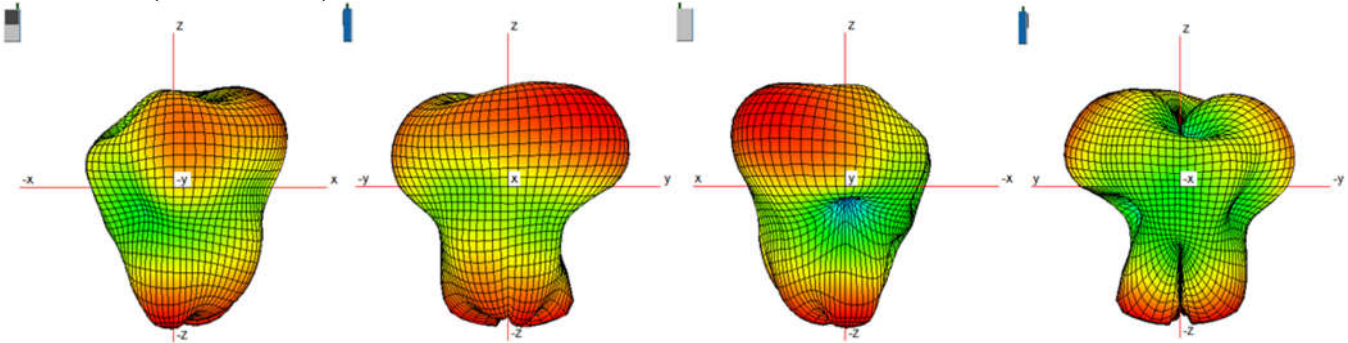
Antenna model name: Insert molding metal

Antenna type: Loop

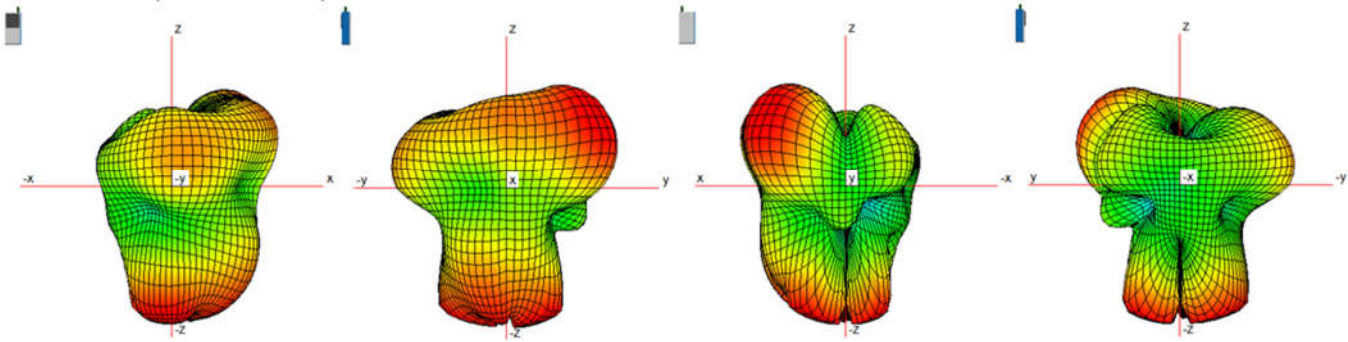
WLAN Peak Gain (dBi)			
5150~5250MHz	-7.5	5250~5350MHz	-7
5470~5725MHz	-6.5	5725~5850MHz	-8
5850~5925MHz	-8	5925~6425MHz	-7.3
6425~6525MHz	-8	6525~6875MHz	-7.5
6875~7125MHz	-7.8		

(Rear view– Front view)

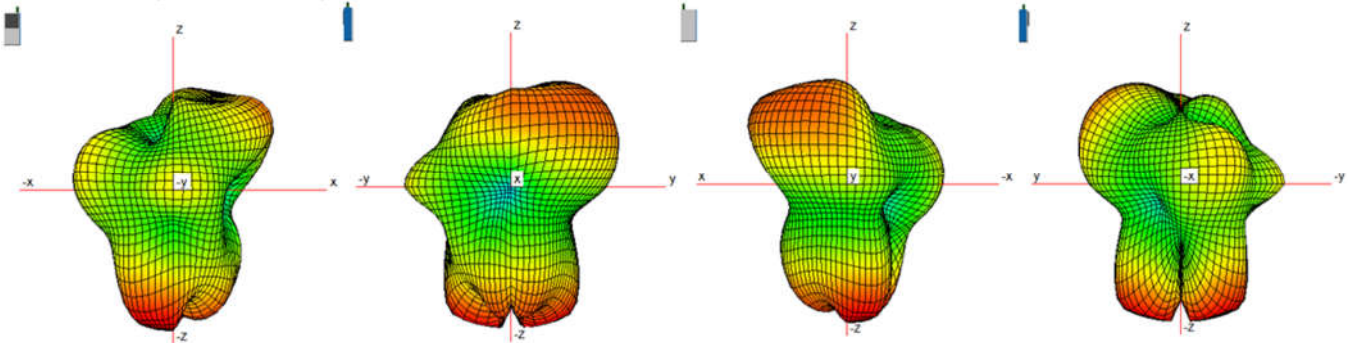
WIFI 5G (5200 MHz)



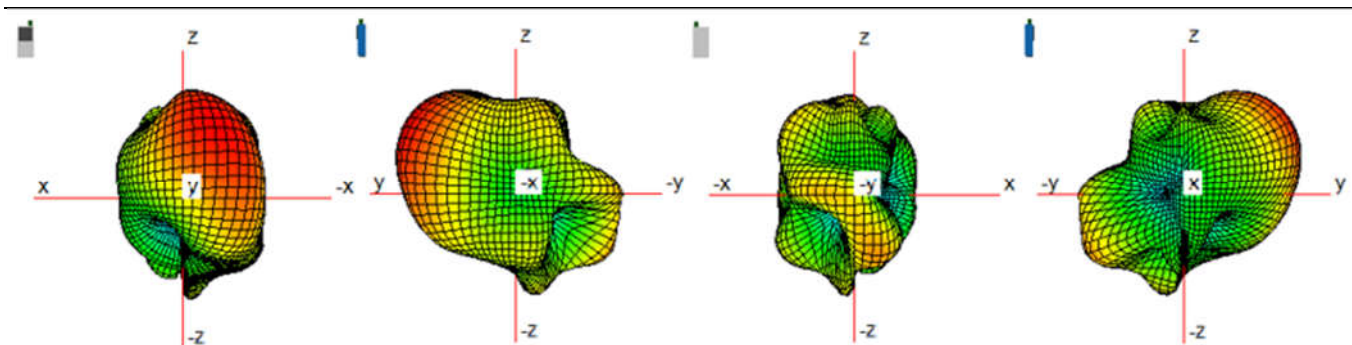
WIFI 5G (5300 MHz)



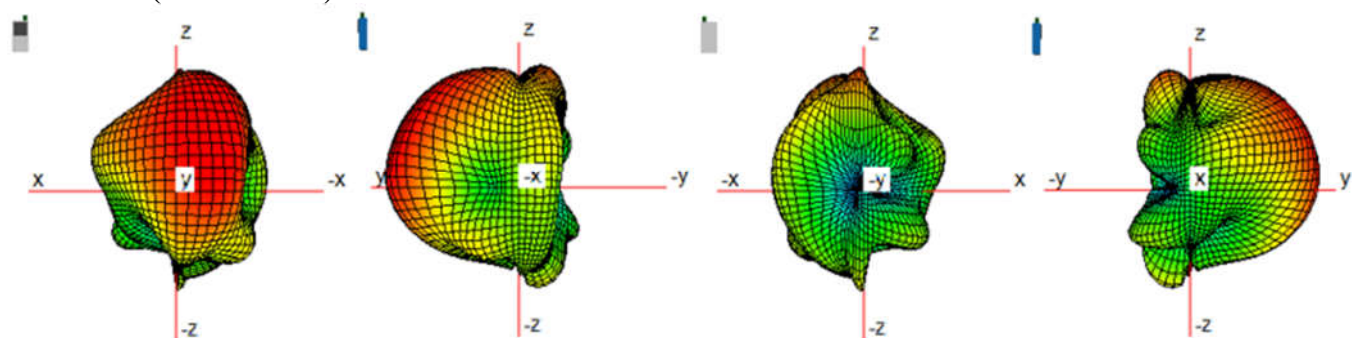
WIFI 5G (5800 MHz)



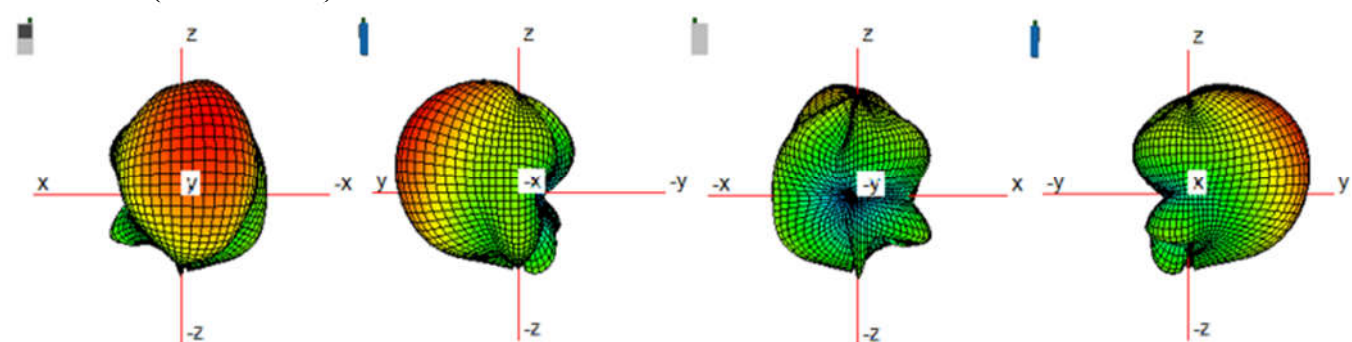
WIFI 6E (6200 MHz)



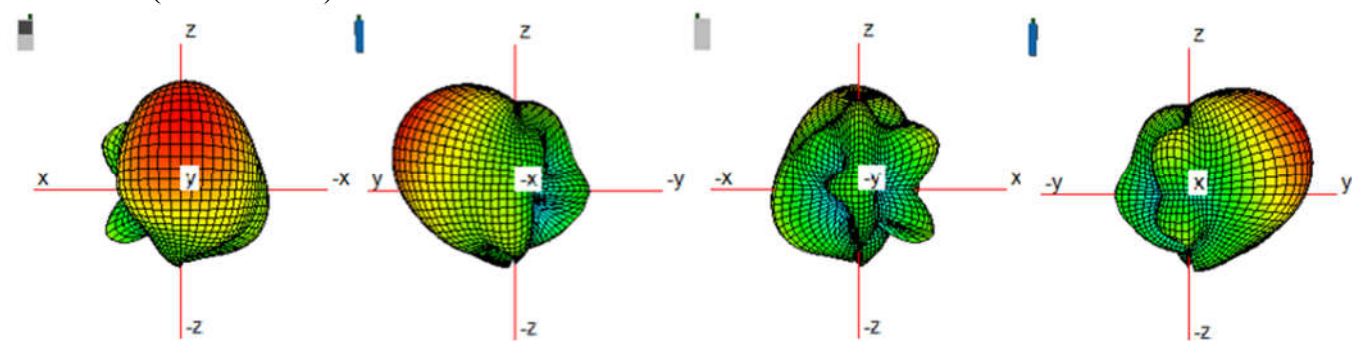
WIFI 6E (6500 MHz)



WIFI 6E (6800 MHz)



WIFI 6E (7000 MHz)



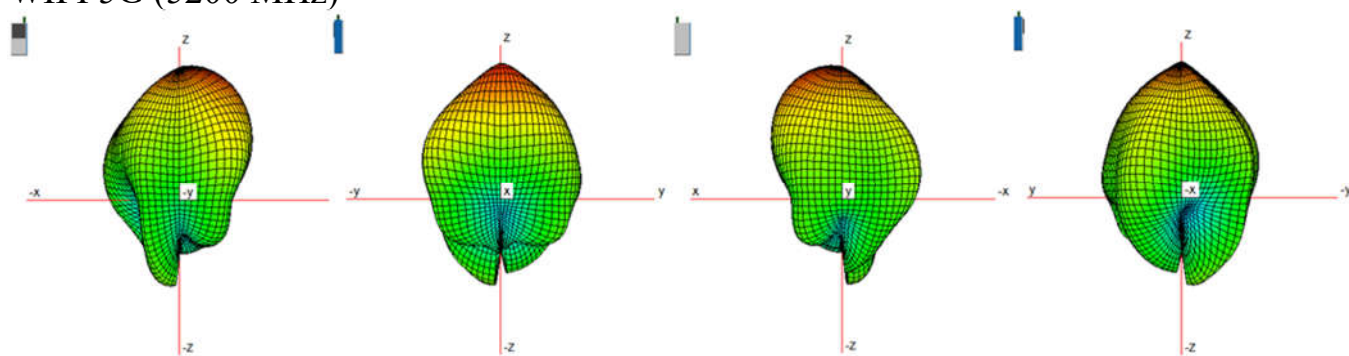
ANT7

Antenna model name: Insert molding metal

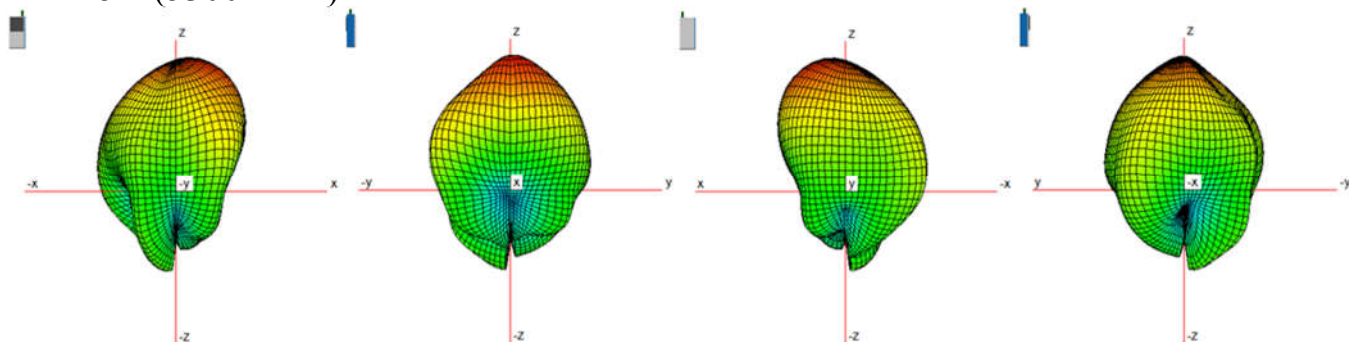
Antenna type: Loop

WLAN Peak Gain (dBi)			
5150~5250MHz	-8	5250~5350MHz	-8
5470~5725MHz	-8.1	5725~5850MHz	-8.1
5850~5925MHz	-8.2	5925~6425MHz	-7.6
6425~6525MHz	-8	6525~6875MHz	-7.6
6875~7125MHz	-8		

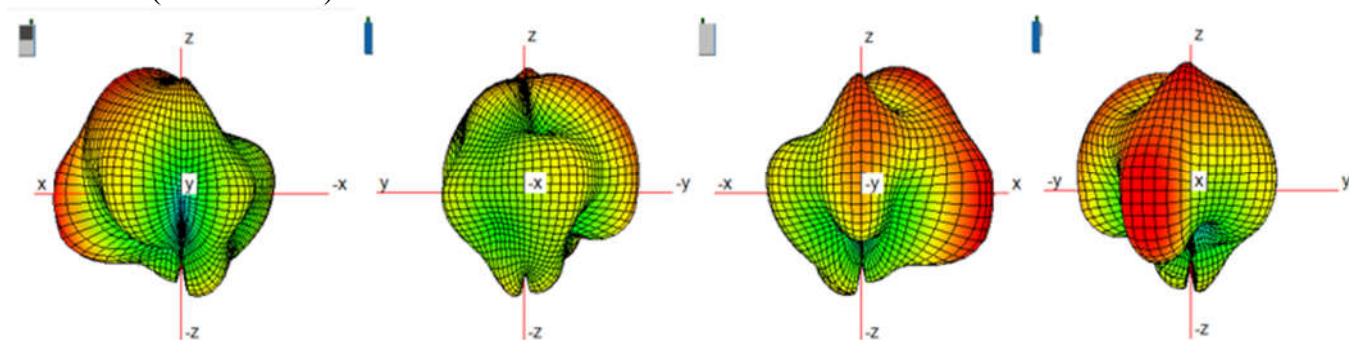
(Rear view– Front view)
WIFI 5G (5200 MHz)



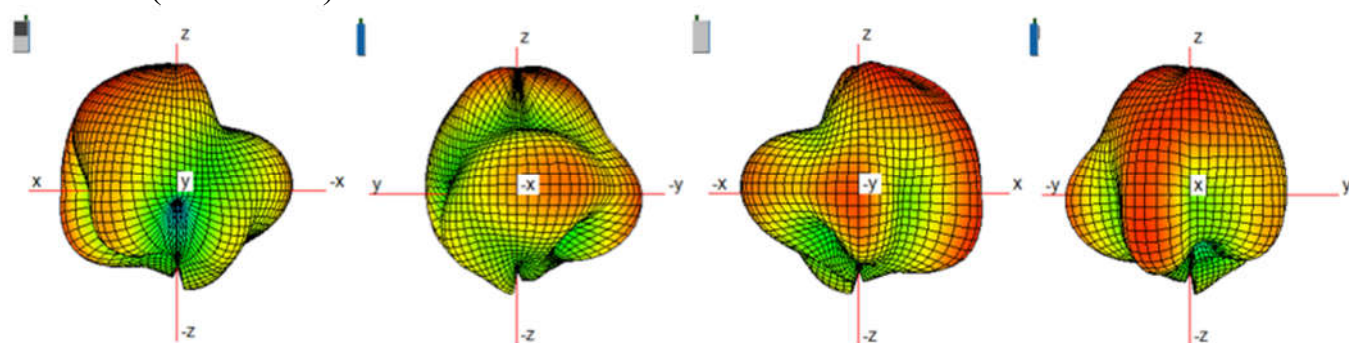
WIFI 5G (5300 MHz)



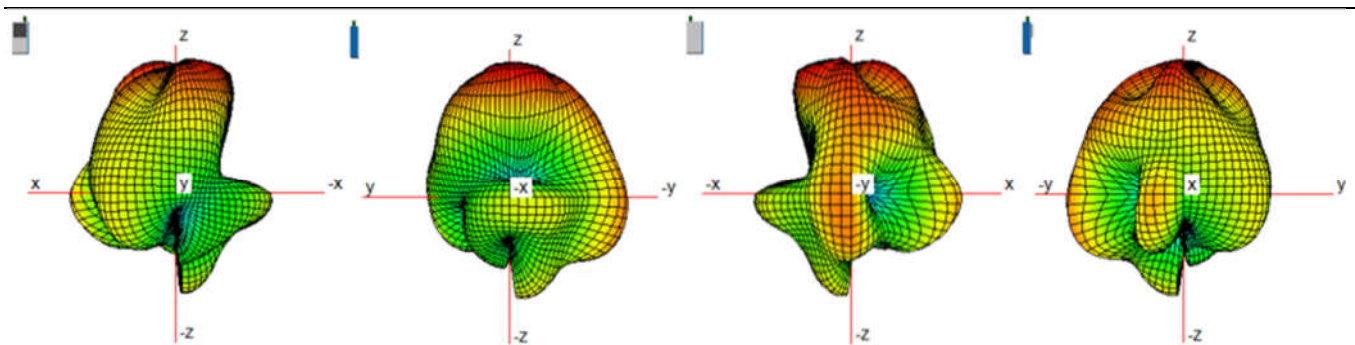
WIFI 6E (6200 MHz)



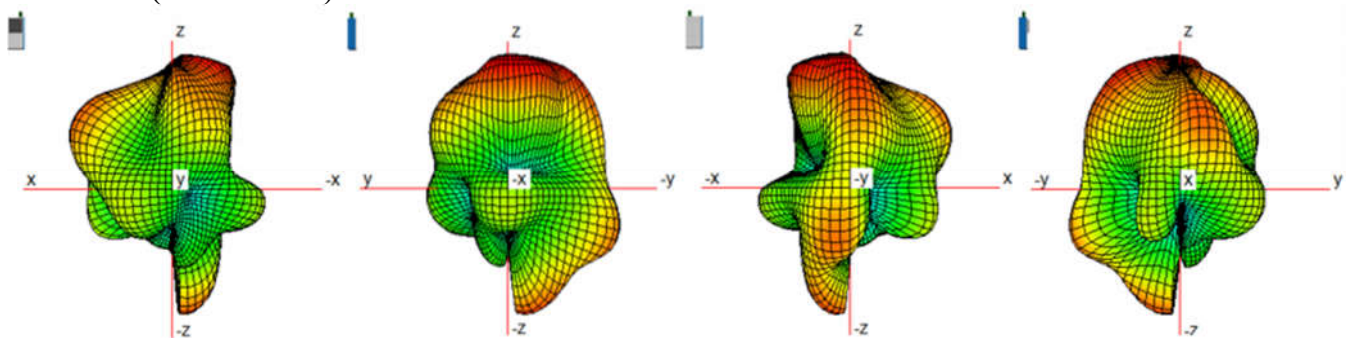
WIFI 6E (6500 MHz)



WIFI 6E (6800 MHz)



WIFI 6E (7000 MHz)



ANT10

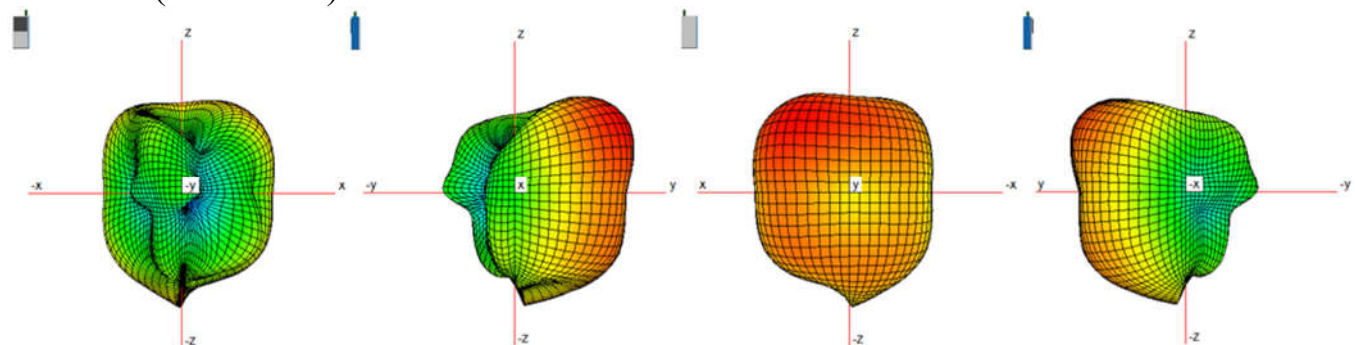
Antenna model name: LDS

Antenna type: IFA

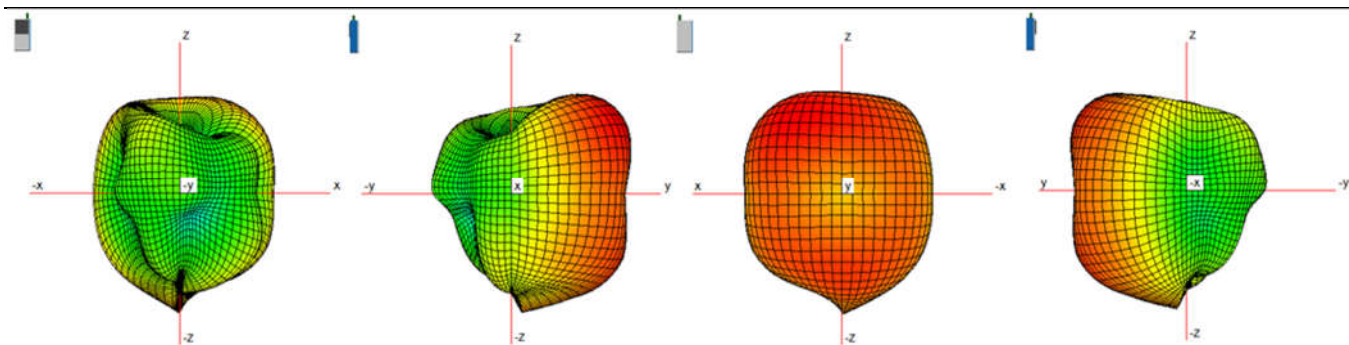
WLAN Peak Gain (dBi)			
5150~5250MHz	-8.1	5250~5350MHz	-8.5
5470~5725MHz	-8.9	5725~5850MHz	-8.4
5850~5925MHz	-8.1	5925~6425MHz	-7.7
6425~6525MHz	-7.7	6525~6875MHz	-7.7
6875~7125MHz	-7.9		

(Rear view– Front view)

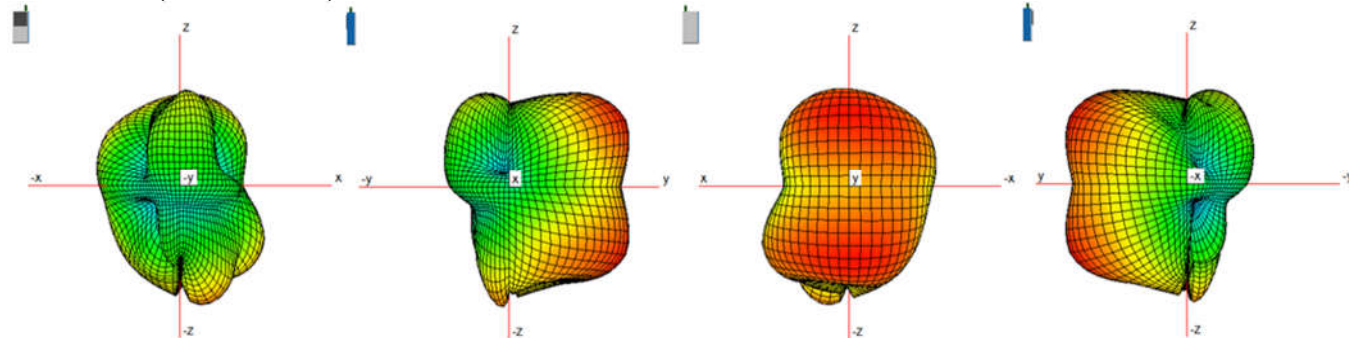
WIFI 5G (5200 MHz)



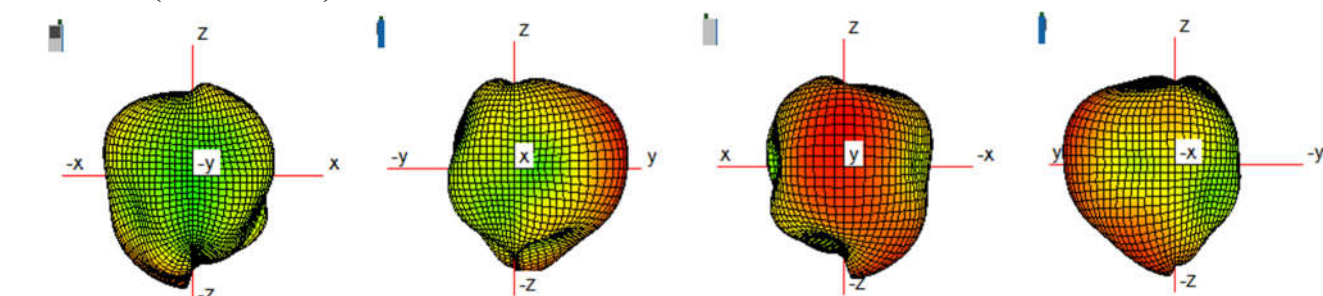
WIFI 5G (5300 MHz)



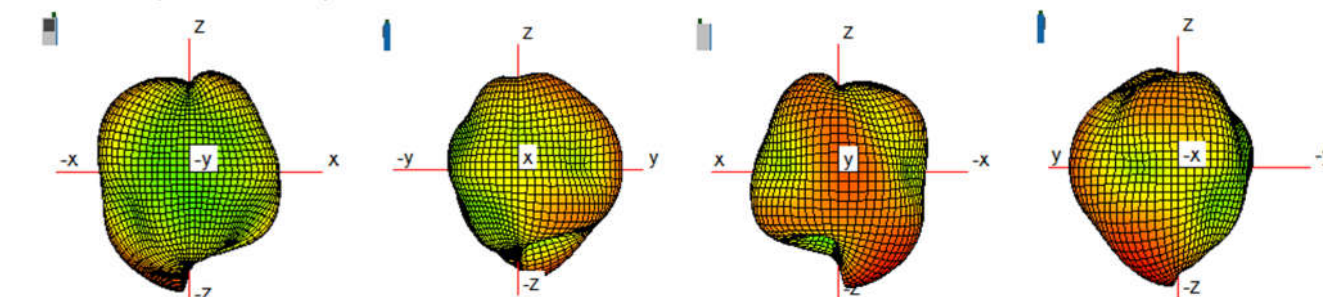
WIFI 5G (5800 MHz)



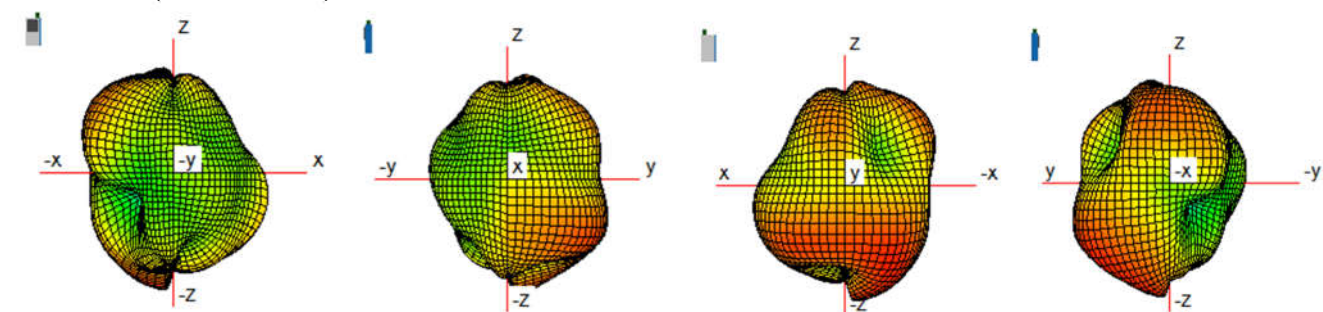
WIFI 6E (6200 MHz)



WIFI 6E (6500 MHz)



WIFI 6E (6800 MHz)



WIFI 6E (7000 MHz)

