
Antenna Reports

Company: Motorola Mobility LLC

Model name: M609

Issue date:2026/07/29

Documented by: _____  _____

Antenna Summary Table

Check items	Information
Provided by lab	Motorola internal lab (GTS)
Manufacturer/ Brand name	Midframe
Model name (Part number)	M609
Test Software	MaxSign Libra
Test environment	Motorola Shanghai RD team Lab with GTS 1800 Motorola Shanghai RD team Lab with GTS 2800 chamber
List of calibrated test equipment	GTS1800 with calibrated date: On October 23, 2025, due data:October 23, 2027 GTS2800 with calibrated date: On October 24, 2025, due data:October 24, 2027
Antenna detail info.	Show WLAN/BT/ NFC/UWB/WPT only, no WWAN ANT3: GPS(1.575GHz); Wi-Fi 2.4G (2.4~2.5GHz), PIFA type antenna. ANT4: Wi-Fi 5G(5.15~5.85GHz), Wi-Fi 6e(5.925~7.125GHz), PIFA type antenna. ANT5: Wi-Fi 5G(5.15~5.85GHz), Wi-Fi 6e(5.925~7.125GHz),PIFA type antenna. ANT6: Wi-Fi 2.4G (2.4~2.5GHz), PIFA type antenna. ANT10: UWB CH9(7.75~8.25G), slot type antenna. ANT11: UWB CH5/9(6.25~6.75G,7.75~8.25G), Monopole type antenna. ANT13: UWB CH9(7.75~8.25G),slot type antenna. NFC Antenna: Copper Coil combined with metal frame design + Ferrite sheet with dimension 60*60*0.08mm WLC antenna: Differential port to excite Copper coil + nano crystal sheet with dimension Diameter 48mm*0.08mm(Thickness).
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.

Test environment

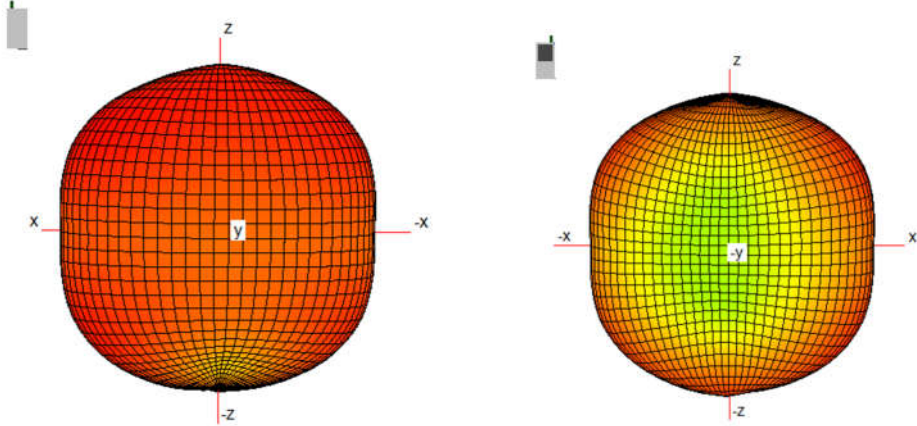
ANT3

Antenna type: PIFA

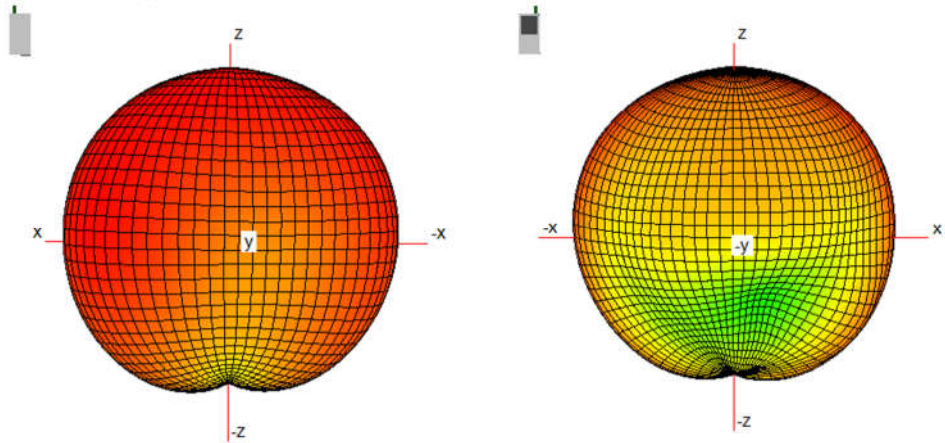
WLAN//BT/GPS Peak Gain (dBi)			
2400~2500MHz	-6	GPS 1575MHz	-3.1

(Rear view– Front view)

GPS 1575MHz



WIFI 2.4G (2450 MHz)



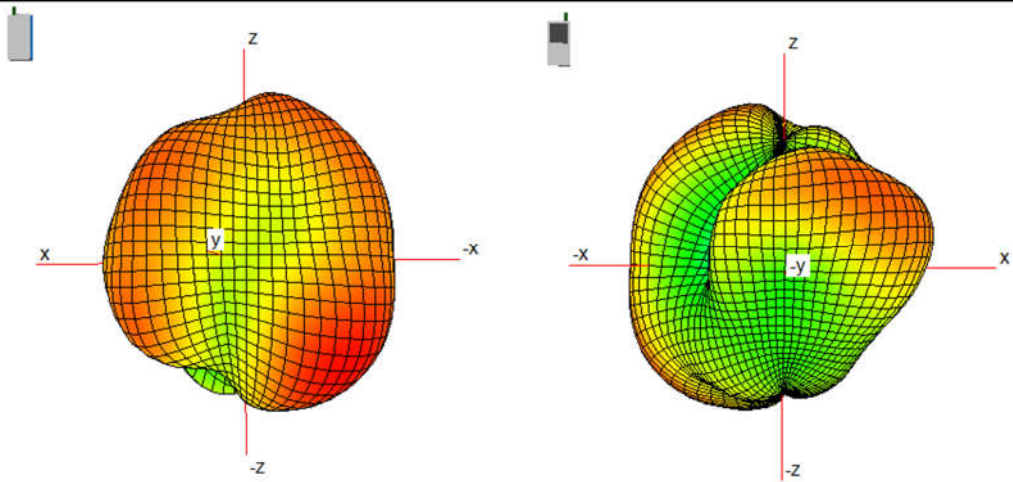
ANT4

Antenna type: PIFA

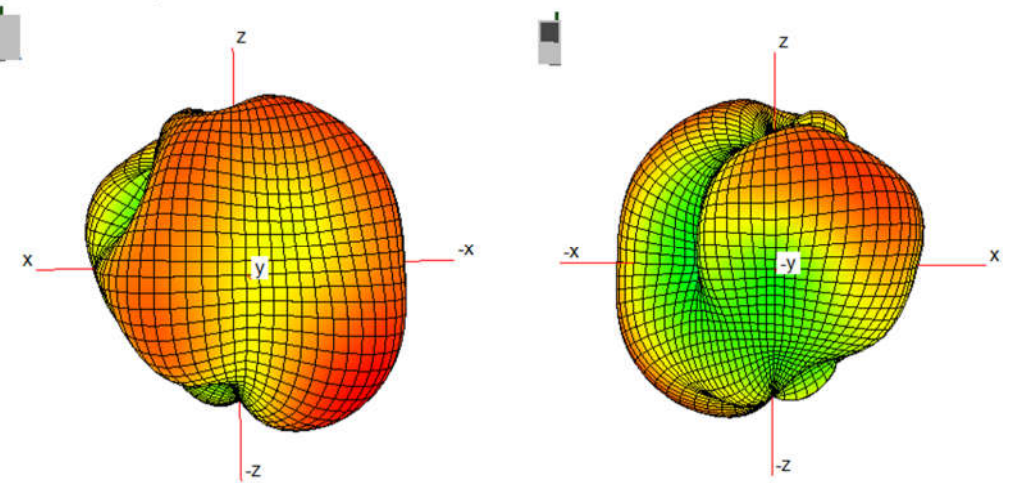
WLAN Peak Gain (dBi)			
5150~5250MHz	-6	6E UNII-5	-2.1
5250~5350MHz	-6.2	6E UNII-6	-3.8
5470~5725MHz	-6.5	6E UNII-7	-3.8
5725~5850MHz	-6.2	6E UNII-8	-3

(Rear view– Front view)

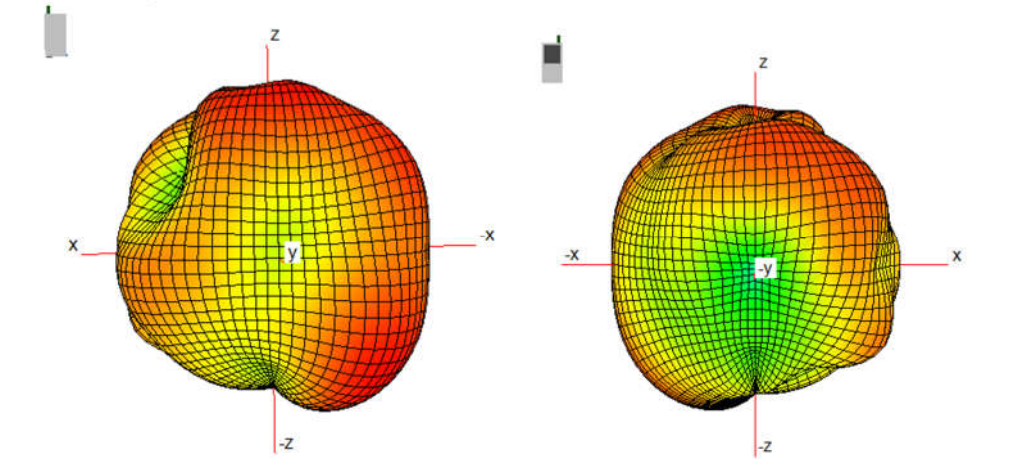
WIFI 5G (5200 MHz)



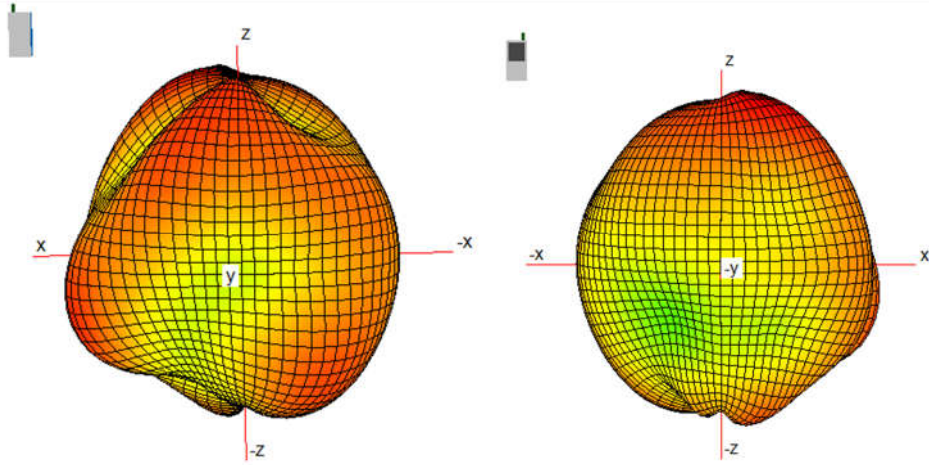
WIFI 5G (5300 MHz)



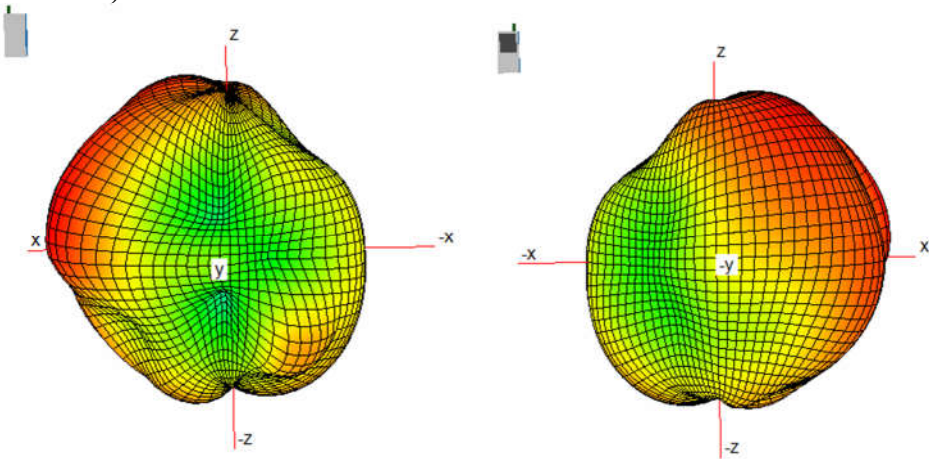
WIFI 5G (5500 MHz)



WIFI 5G (5800 MHz)



WIFI 6E (6500 MHz)

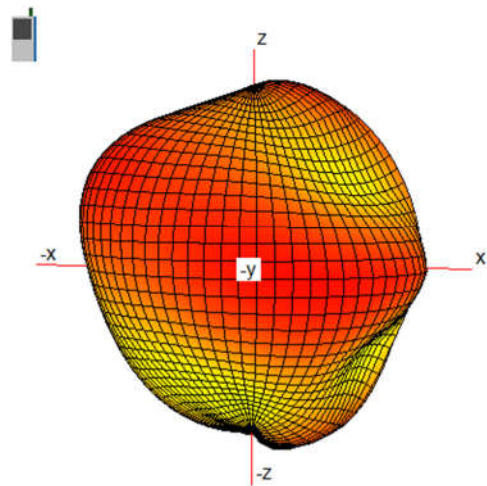
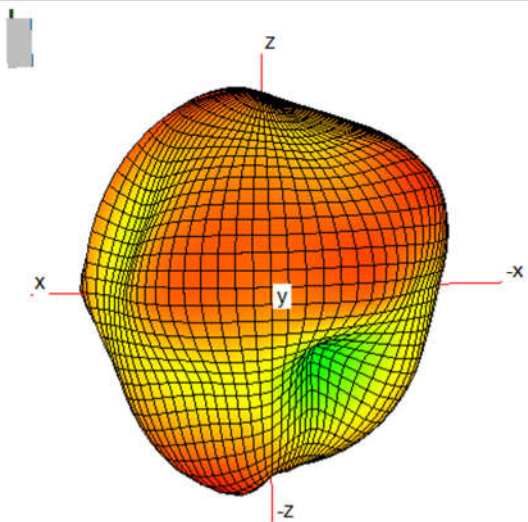


ANT5

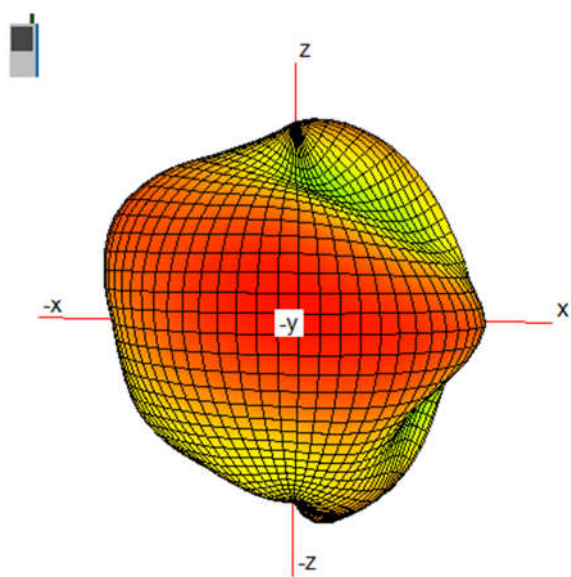
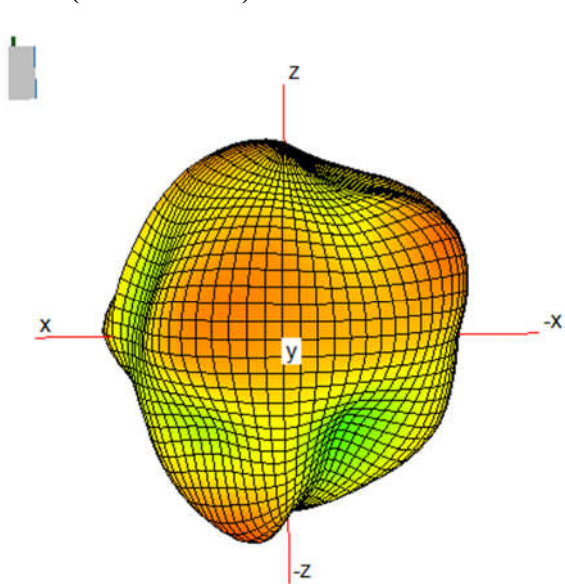
Antenna type: PIFA

WLAN Peak Gain (dBi)			
5150~5250MHz	-6.5	6E UNII-5	-4.1
5250~5350MHz	-5.6	6E UNII-6	-4.3
5470~5725MHz	-6	6E UNII-7	-4
5725~5850MHz	-6.7	6E UNII-8	-3.4

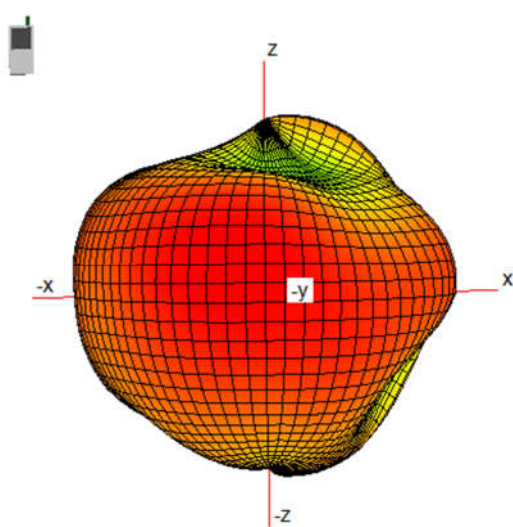
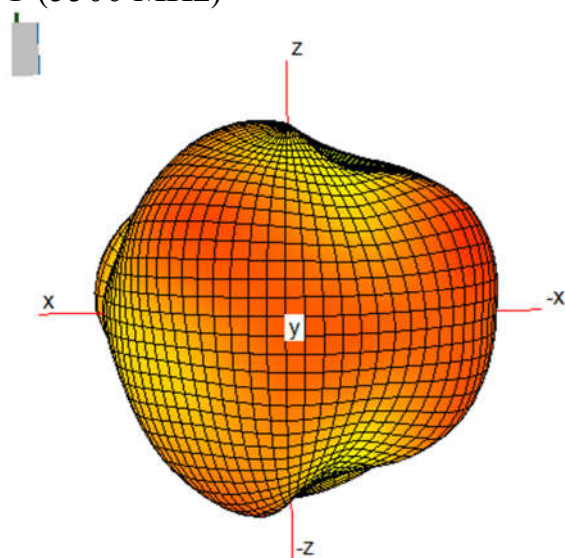
(Rear view– Front view)
WIFI 5G (5200 MHz)



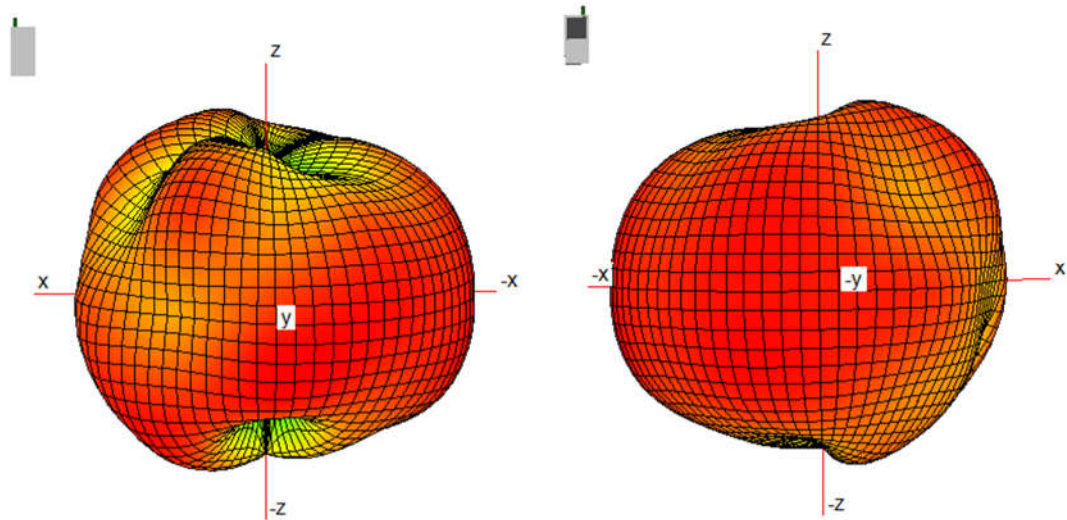
WIFI 5G (5300 MHz)



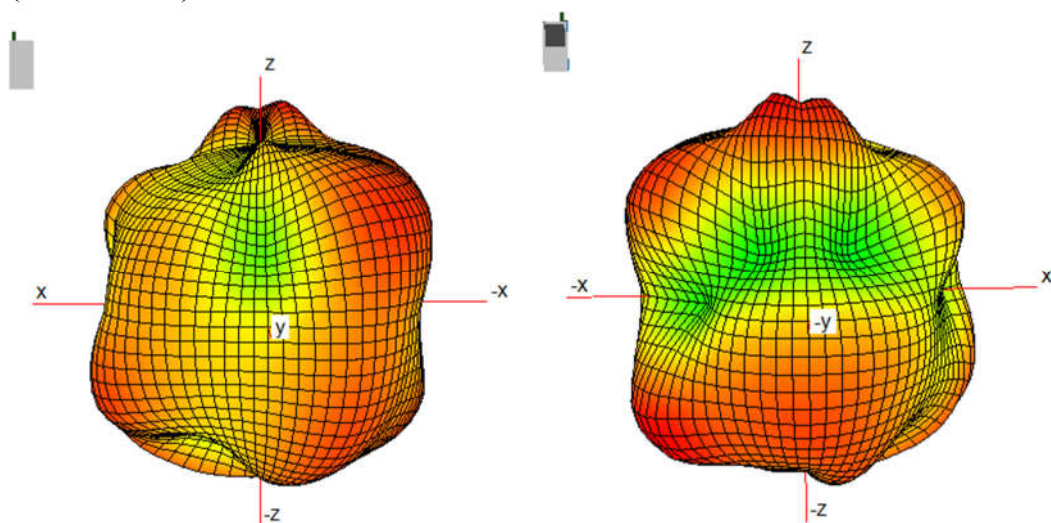
WIFI 5G (5500 MHz)



WIFI 5G (5800 MHz)



WIFI 6E (6500 MHz)



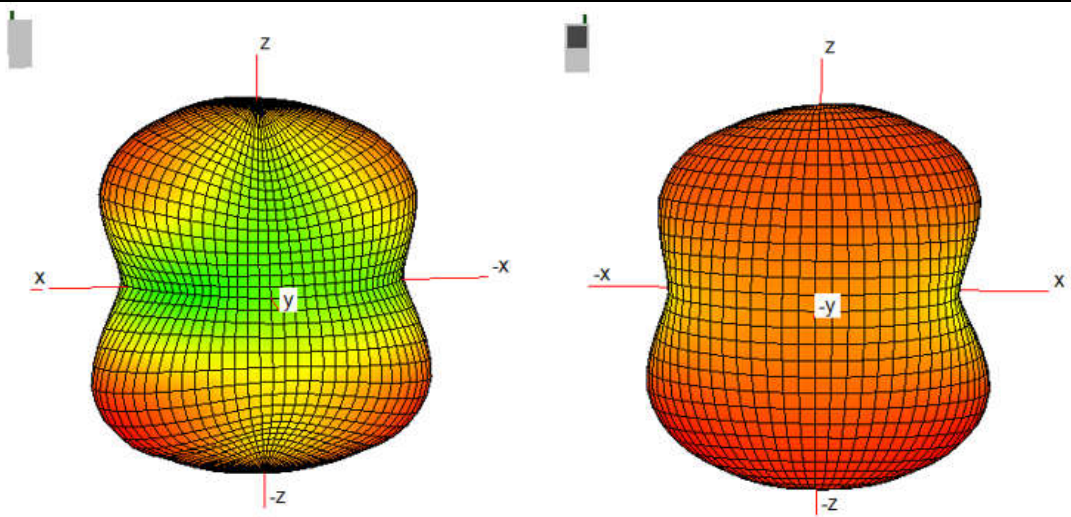
ANT6

Antenna type:PIFA

BT/WLAN Peak Gain (dBi)			
2400~2483.5MHz	-5.7		

(Rear view– Front view)

WIFI 2.4G (2450 MHz)

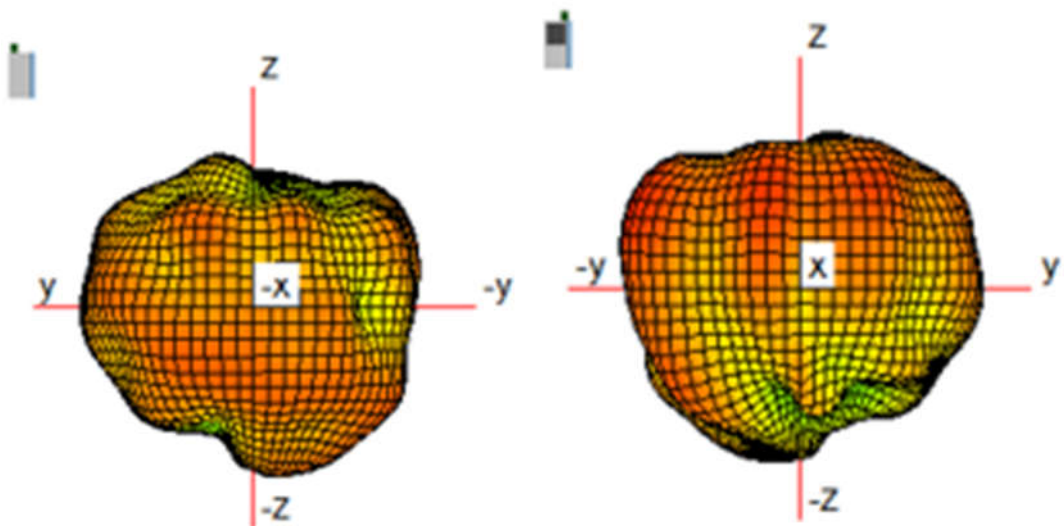


ANT11

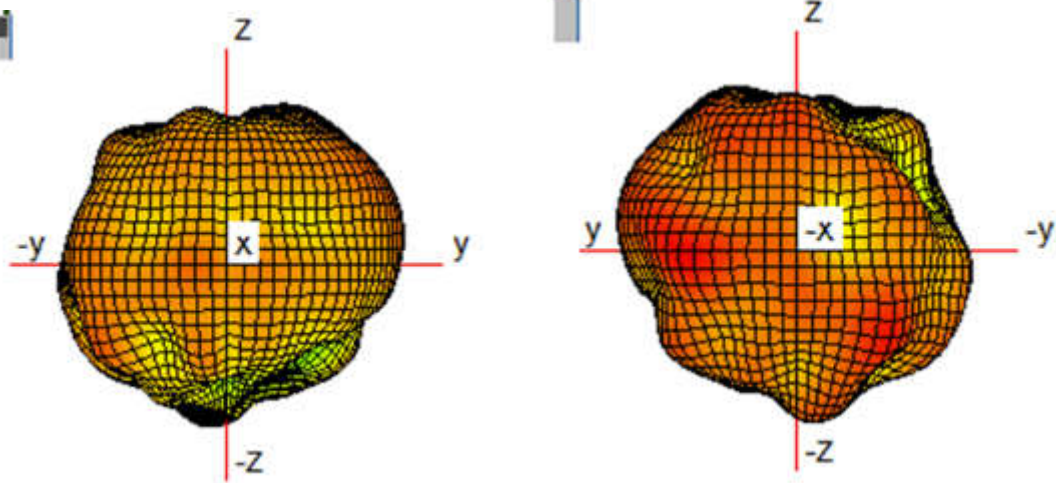
Antenna type: Monopole

Peak Gain (dBi)			
6250~6750MHz	-3	7750~8250MHz	-3.5

UWB-CH5(6500MHz)



UWB-CH9(8000MHz)



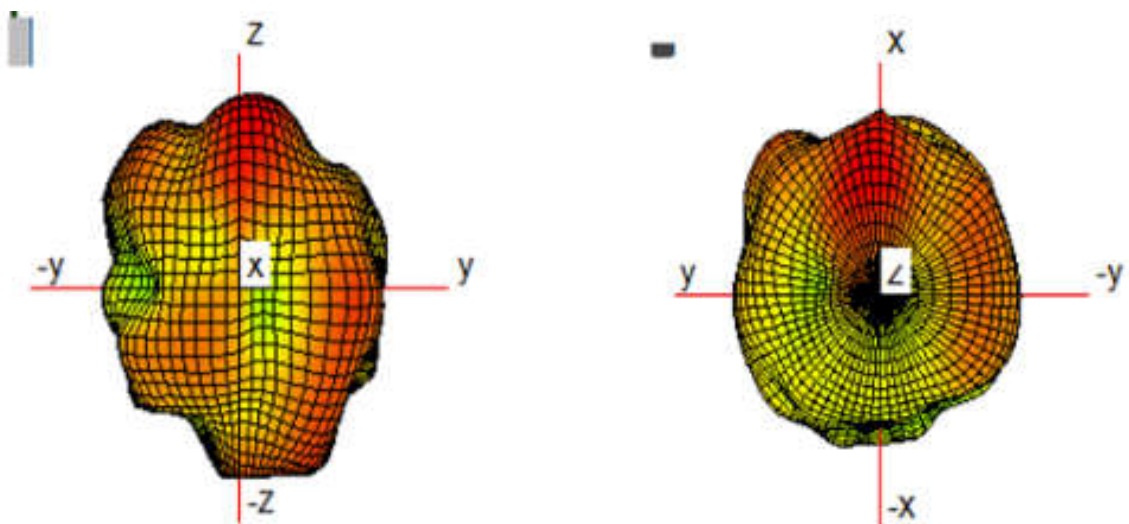
ANT10

Antenna type: Slot

UWB ch9 Peak Gain (dBi)			
7750~8250MHz	3		

(Rear view– Front view)

UWB CH9 (8000 MHz)



ANT13

Antenna type: Slot

UWB ch9 Peak Gain (dBi)			
7750~8250MHz	-1		

(Rear view– Front view)

UWB CH9 (8000 MHz)

