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# Antenna Gain Report

Company: Motorola Mobility LLC

Model name: XT2305-1

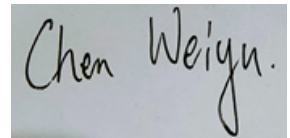
Test lab: Motorola internal lab (GTS)

Antenna model name: Midframe

Issue date: 2023/03/24

Documented by: \_\_\_Chen Weiyu\_\_\_\_\_

Signature:

A rectangular box containing a handwritten signature in black ink that reads "Chen Weiyu." The signature is written in a cursive style.

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## Antenna Summary Table

Check items	Information
Provided by lab	Motorola internal lab (GTS)
Manufacturer/ Brand name	Motorola
Model name (Part number)	Midframe
Manufacturer address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Test environment	Motorola Xiamen RD team Lab with GTS1800 chamber
List of calibrated test equipment	GTS RayZone2800 with calibrated date: On August 9, 2022
Test software	MaxSign Libra
Antenna detail info.	ANT3: WiFi2.4G / 5G / 6E antenna (2.4~2.5GHz, 5.15~7.125GHz), IFA type antenna. ANT8: WiFi 2.4G / 5G / 6E antenna (2.4~2.5GHz, 5.15~7.125GHz), Loop type NFC Antenna: Differential port to excite FPC Loop + Ferrite sheet with dimension 21.6 mm *21.6mm * 0.7mm WLC antenna: Coil and dimensions 55mm*58mm
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.

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**Antenna Test data:**

ANT3

Antenna model name: Midframe

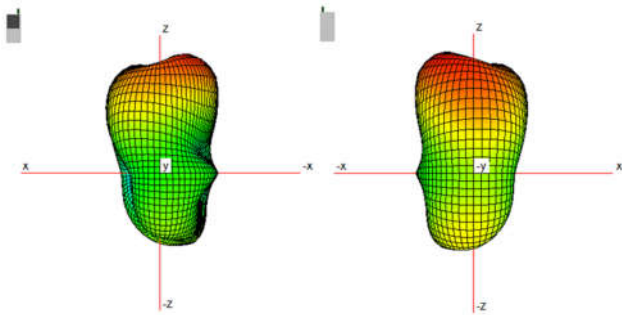
Antenna type: IFA

BT/WLAN Peak Gain (dBi)			
2400~2483.5MHz	-5.5	5470~5725MHz	-7
5150~5250MHz	-7	5725~5850MHz	-8
5250~5350MHz	-6.5		

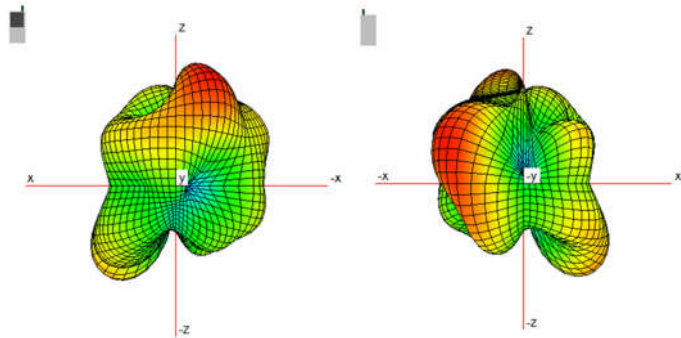
WIFI 6E Peak Gain (dBi)			
UNII-5	-6.5	UNII-7	-6
UNII-6	-6	UNII-8	-7

(Rear view– Front view)

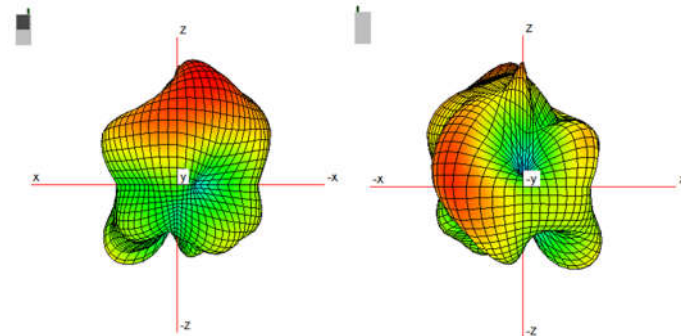
WIFI 2.4G (2450 MHz)



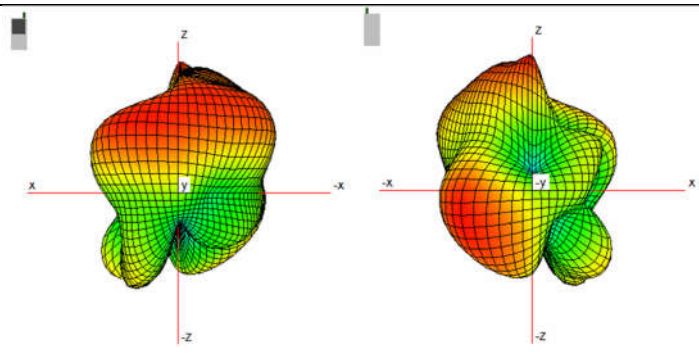
WIFI 5G (5200 MHz)



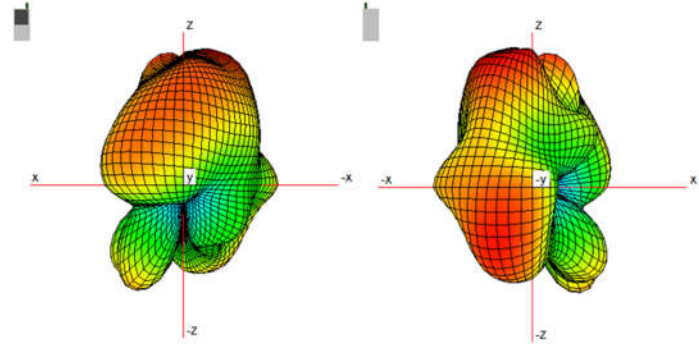
WIFI 5G (5300 MHz)



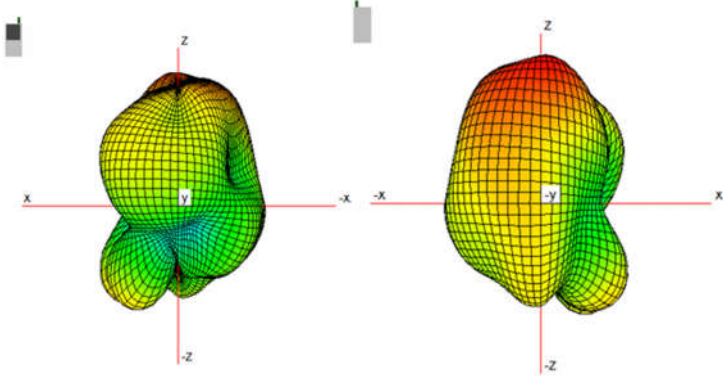
WIFI 5G (5500 MHz)



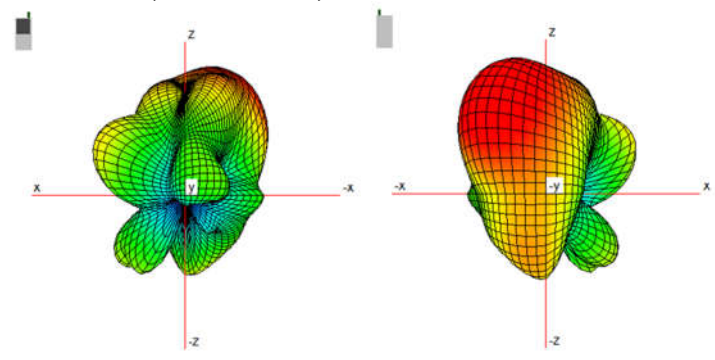
WIFI 5G (5800 MHz)



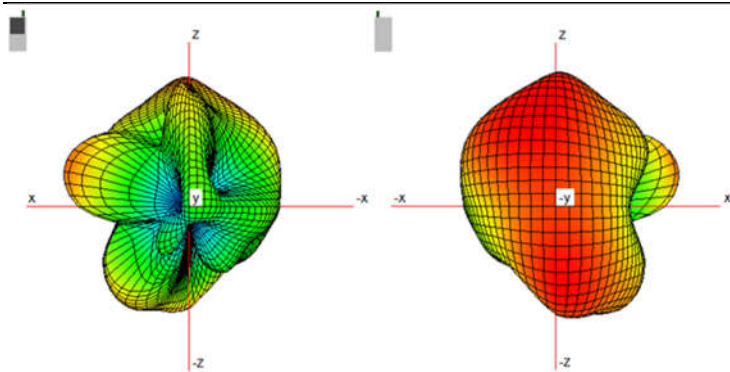
WIFI 6E (6200 MHz)



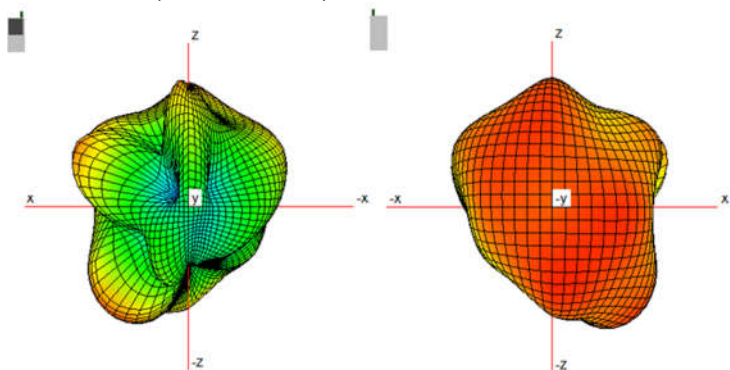
WIFI 6E (6500 MHz)



WIFI 6E (6800 MHz)



WIFI 6E (7000 MHz)



ANT8

Antenna model name: Midframe

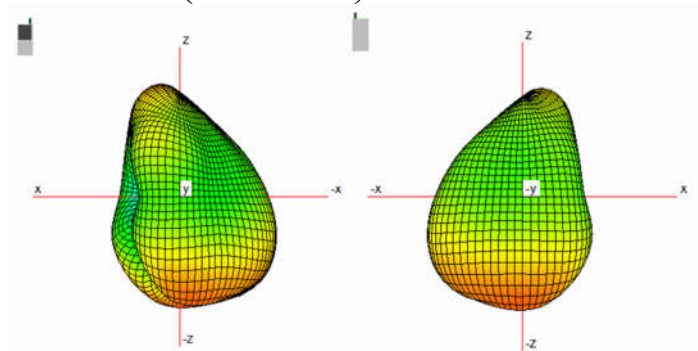
Antenna type: Loop

WLAN Peak Gain (dBi)			
2400~2483.5MHz	-6.5	5470~5725MHz	-5.5
5150~5250MHz	-5	5725~5850MHz	-6
5250~5350MHz	-5.3		

WIFI 6E Peak Gain (dBi)			
UNII-5	-5.5	UNII-7	-5
UNII-6	-5	UNII-8	-6.5

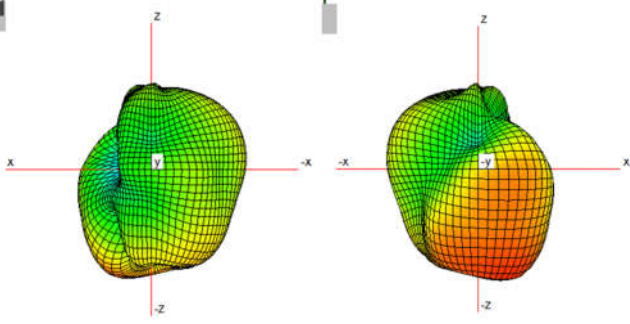
(Rear view– Front view)

WIFI 2.4G (2450 MHz)

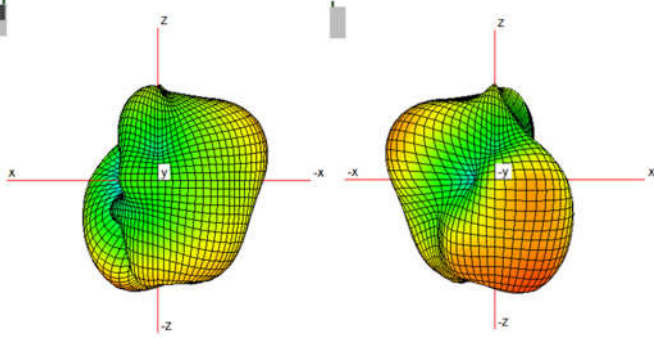


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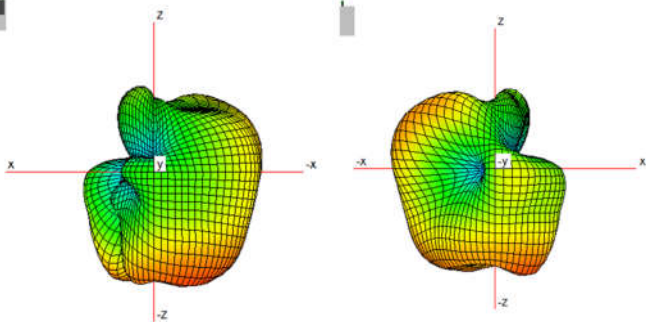
WIFI 5G (5200 MHz)



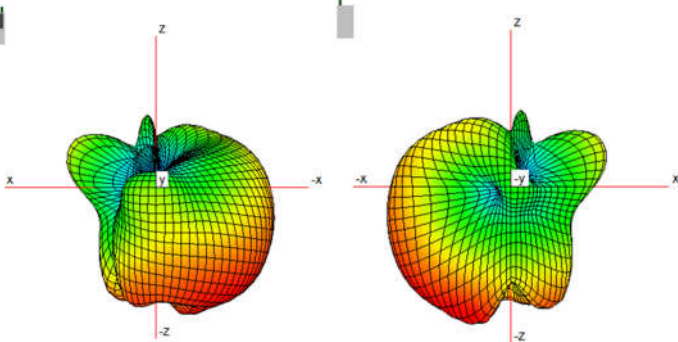
WIFI 5G (5300 MHz)



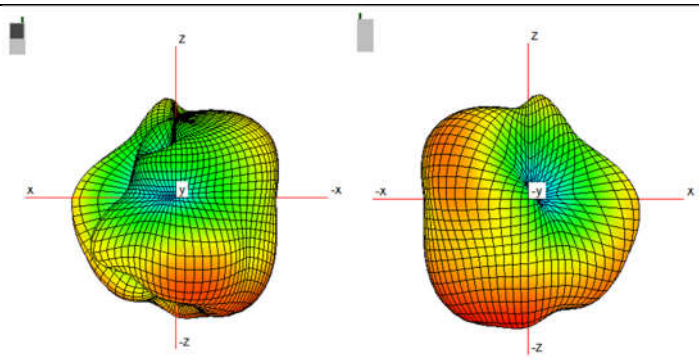
WIFI 5G (5500 MHz)



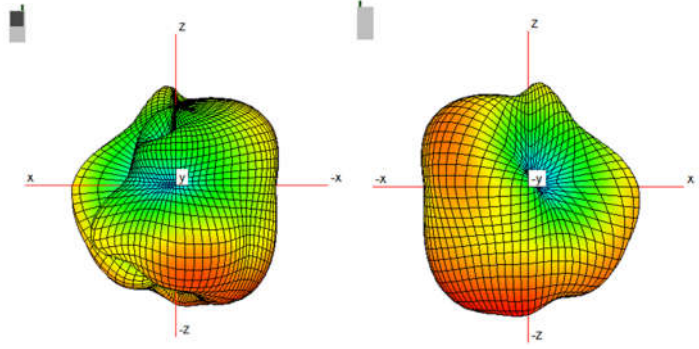
WIFI 5G (5800 MHz)



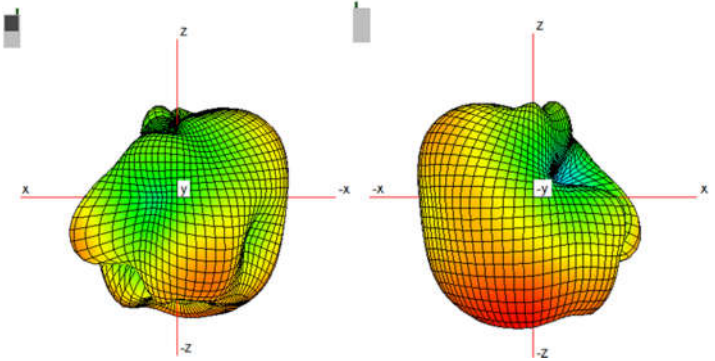
WIFI 6E (6200 MHz)



WIFI 6E (6500 MHz)



WIFI 6E (6800 MHz)



WIFI 6E (7000 MHz)

