# **Antenna Reports**

Main Antenna vendor: Motorola Test lab: Motorola internal lab (by GTS RayZone2800) Antenna model name: Midframe Issue date: 2024/01/03

Approved by: Hu wei

Antenna Summary Table				
Check items	Information			
Provided by lab	Motorola internal lab (GTS)			
Manufacturer/ Brand	Motorola			
name				
Manufacturer address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA			
Model name (Part	Midframe			
number)				
Test environment	Motorola Shanghai RD team Lab with GTS			
	RayZone2800			
	chamber			
Test software	MaxSign Libra			
Antenna detail info.	ANT5: BT/WiFi2.4G / 5G / 6E antenna (2.4~2.5GHz,			
	5.15~7.125GHz), Loop type antenna.			
	ANT7: BT/WiFi 2.4G / 5G / 6E antenna (2.4~2.5GHz,			
	5.15~7.125GHz), IFA antenna			
	NFC Antenna: Loop antenna			
	WPT Antenna: Loop antenna			
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.

### List of Test equipment

Equipment		Calibrate date	Due date	Remark
GTS RayZone2800	(	October 23, 2022	October 22, 2025	Self-monitor monthly to ensure the variation within 0.5db during the cycle.
Keysight VNA 5071C		September 29, 2023	September 28, 2024	N/A

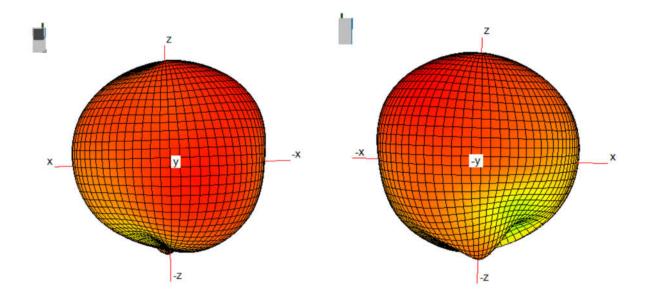
#### Antenna Test data:

	<2400MHz~2483.5MHz>	
Antenna Type /Gian 2.4G	<ant5>: Loop Antenna with gain: -3.85dBi</ant5>	
	<ant7>: IFA Antenna with gain: -2.24dBi</ant7>	
	<5150MHz~5250MHz>	
	<ant5>: Loop Antenna with gain: -3.1dBi</ant5>	
	<ant7>: IFA Antenna with gain: -3.01dBi</ant7>	
	<5250MHz~5350MHz>	
	<ant5>: Loop Antenna with gain: -2.6dBi</ant5>	
	<ant7>: IFA Antenna with gain: -2.87dBi</ant7>	
Antenna Type /Gian 5G	<5470MHz~5725MHz>	
	<ant5>: Loop Antenna with gain:-2.7dBi</ant5>	
	<ant7>: IFA Antenna with gain: -3.25dBi</ant7>	
	<5725MHz~5850MHz>	
	<ant5>: Loop Antenna with gain: -2dBi</ant5>	
	<ant7>: IFA Antenna with gain: -2.5dBi</ant7>	
	<5925MHz~6425MHz>	
	<ant5>: Loop Antenna with gain: -3.7dBi</ant5>	
	<ant7>: IFA Antenna with gain: -3.9dBi</ant7>	
	<6425MHz~6525MHz>	
	<ant5>: Loop Antenna with gain: -5.5dBi</ant5>	
	<ant7>: IFA Antenna with gain: -4.7dBi</ant7>	
Antenna Type /Gian 6E	<6525MHz~6875MHz>	
	<ant5>: Loop Antenna with gain: -6.6dBi</ant5>	
	<ant7>: IFA Antenna with gain: -5.1dBi</ant7>	
	<6875MHz~7125MHz>	
	<ant5>: Loop Antenna with gain: -5.3dBi</ant5>	
	<ant7>: IFA Antenna with gain: -6.21dBi</ant7>	
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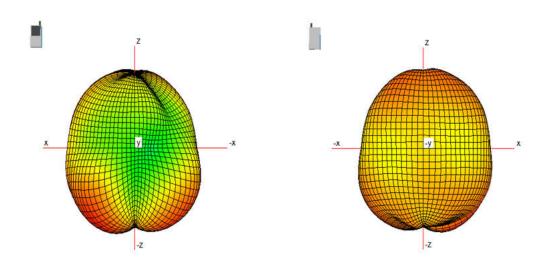
## ANT5 Gain Plot

# (Rear view- Front view)

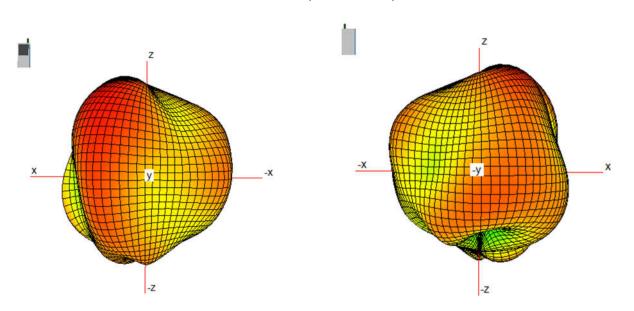
WIFI 2.4G (2450 MHz)



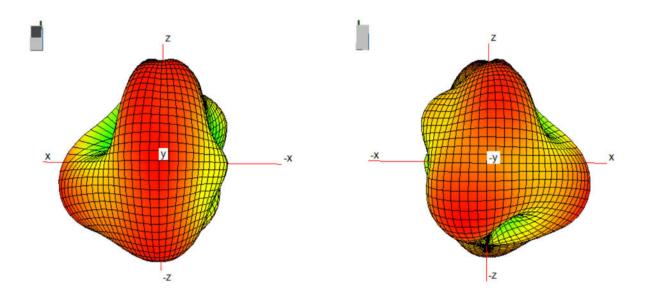
WIFI 5G (5200 MHz)

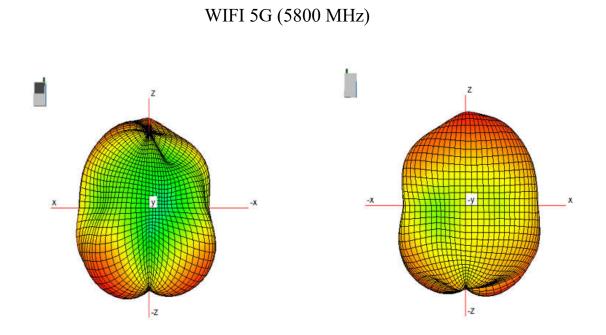


WIFI 5G (5300 MHz)

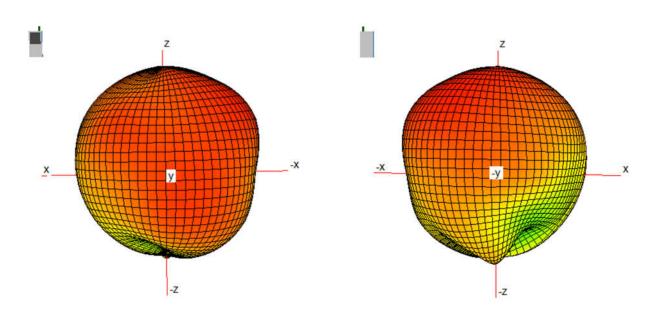


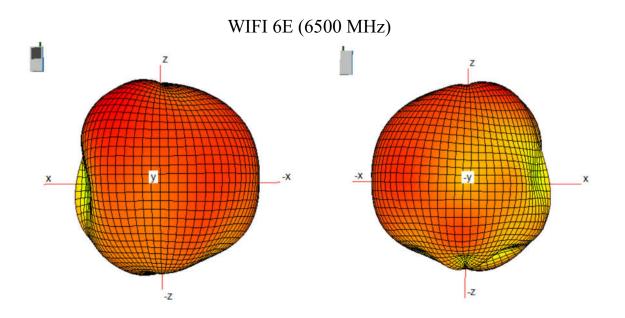
WIFI 5G (5500 MHz)



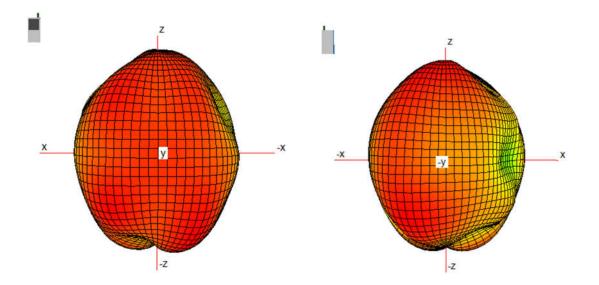


WIFI 6E (6100 MHz)

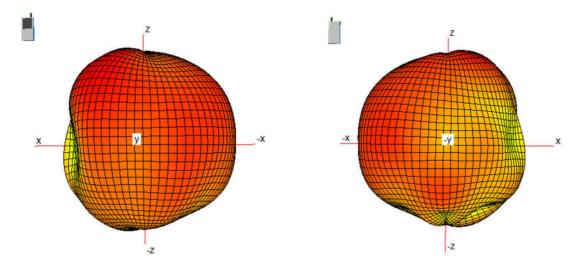




WIFI 6E (6700 MHz)



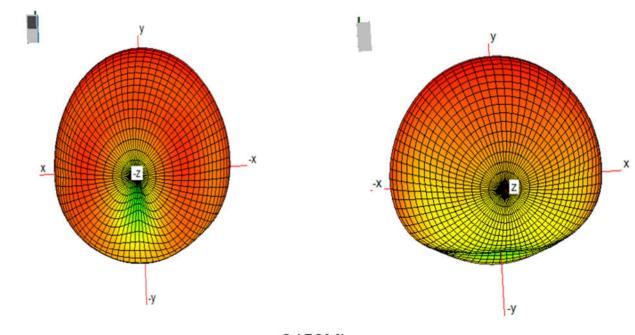
WIFI 6E (7000 MHz)



ANT7 Gain Plot

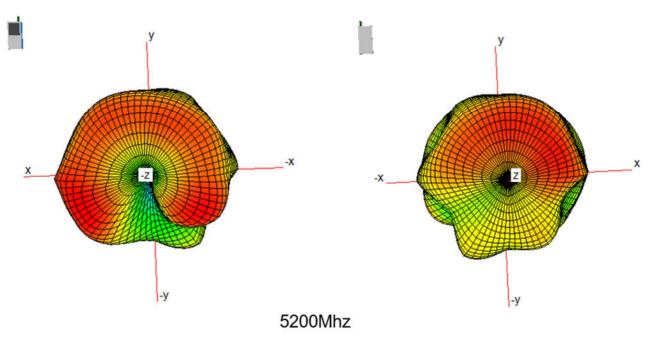
(Rear view- Front view)

WIFI 2.4G (2450 MHz)

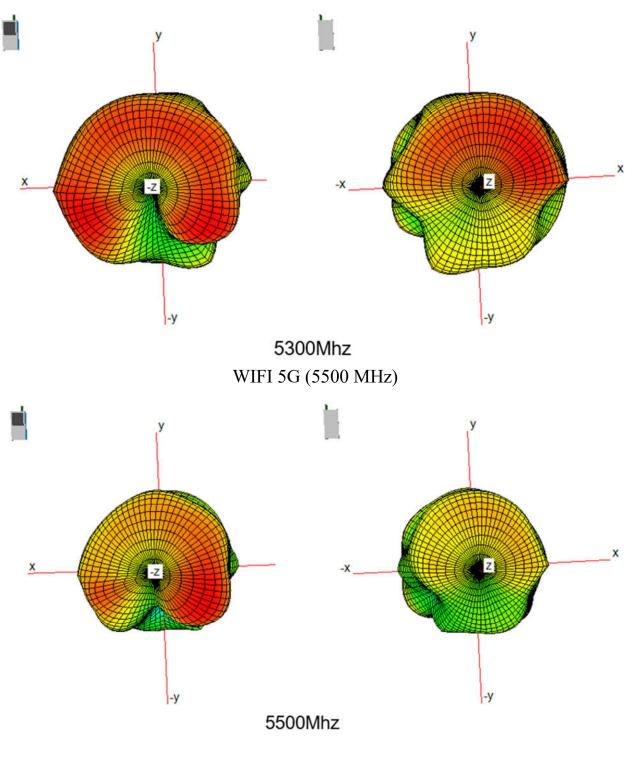


2450Mhz

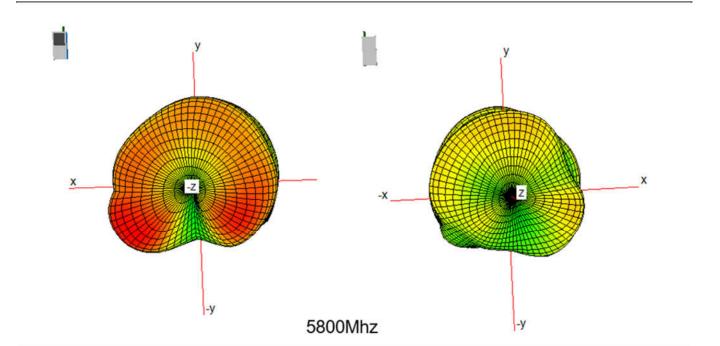
WIFI 5G (5200 MHz)



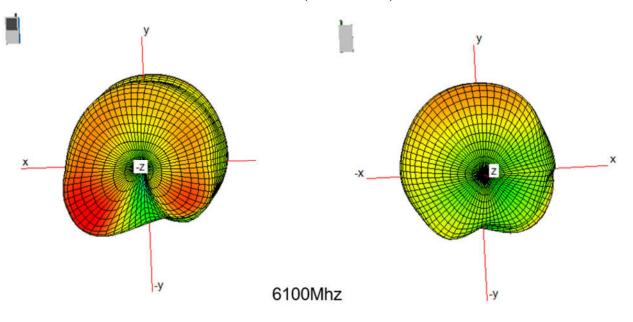
WIFI 5G (5300 MHz)



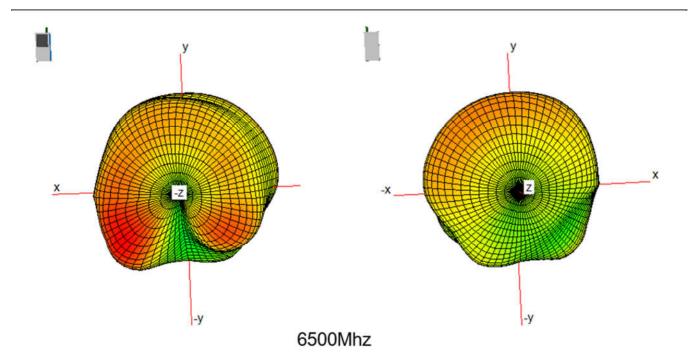
WIFI 5G (5800 MHz)



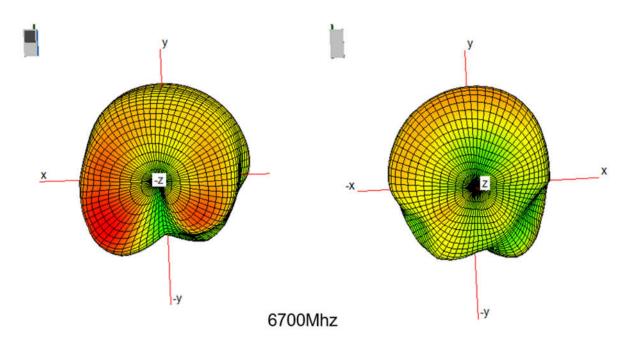
WIFI 6E (6100 MHz)



WIFI 6E (6500 MHz)



WIFI 6E (6700 MHz)



WIFI 6E (7000 MHz)

