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# Antenna Reports

Company: Motorola Mobility LLC  
Issue date: 2025/04/09

**Antenna Summary Table**

Check items	Information
Provided by lab	Welletronics Communication Technology Co.,Ltd. Beijing RD team lab (GTS)
Manufacturer/ Brand name	Welletronics Communication Technology Co.,Ltd. F1-3,Building 8,Tongfu Industrial Park, Dalang, Longhua District, Shenzhen, Guangdong
Model name (Part number)	SM686-5K-JR-DVT2-MMDD-XXXX
Test environment/Test software name	Welletronics Communication Technology Co.,Ltd. Beijing RD team Lab with GTS1800 chamber G1S MaxSign - RayZone1800G2
List of calibrated test equipment	GTS1800 with calibrated date: 2025/3/26 ; Due date2026/3/25 KEYSIGHT E5071C: calibrated date: 2024/12/13 ; Due date2025/12/12
Antenna detail info.	Show WLAN/BT/ NFC only, no WWAN  ANT6:BT & WiFi 2.4G (2.4~2.5GHz), IFA type ANT5: WiFi 5G (5.15~5.85GHz), IFA type NFC Antenna: Differential port to excite FPC coil + Ferrite sheet with dimension 40.16mm *28.9mm * 0.24mm
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.

**Antenna Test data:**

**ANT6**

Antenna model name: SM686-5K-JR-DVT2-MMDD-XXXX

Antenna type: IFA

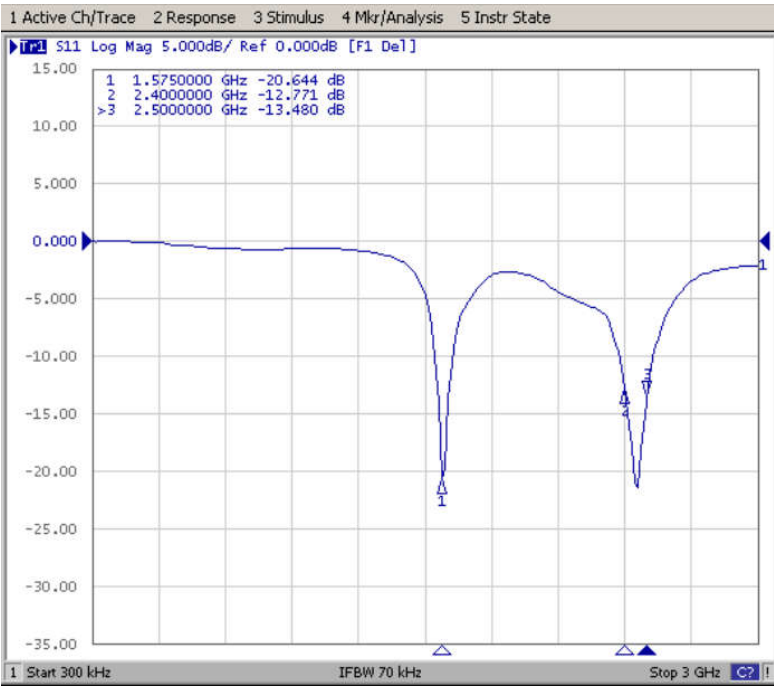
WLAN Peak Gain (dBi)			
2400~2483.5MHz	-2.5	5470~5725MHz	/
5150~5250MHz	/	5725~5850MHz	/
5250~5350MHz	/	5925~7125MHz	N/A

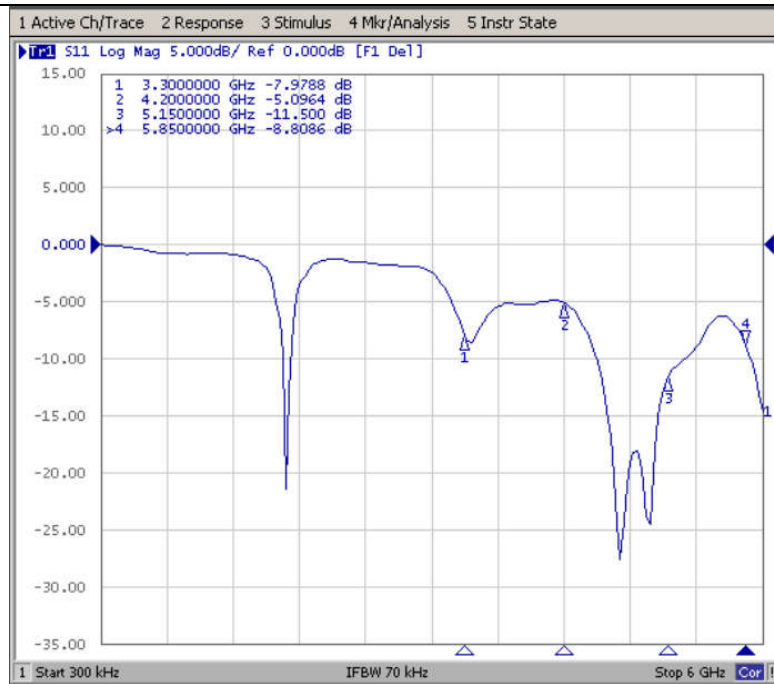
**ANT5**

Antenna model name: SM686-5K-JR-DVT2-MMDD-XXXX

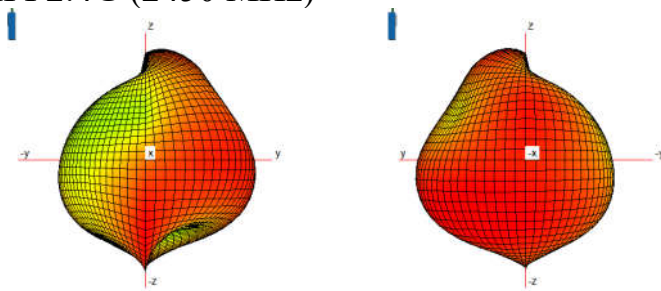
Antenna type: IFA

WLAN Peak Gain (dBi)			
2400~2483.5MHz	/	5470~5725MHz	-2
5150~5250MHz	-2.5	5725~5850MHz	-2
5250~5350MHz	-3	5925~7125MHz	N/A

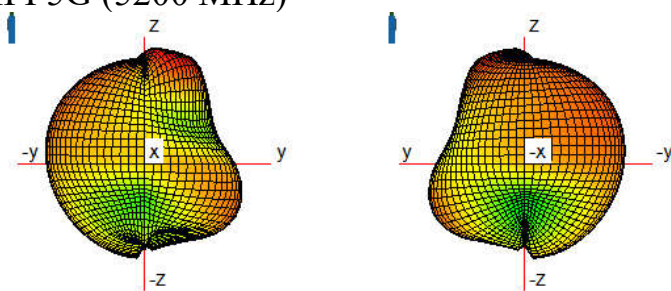




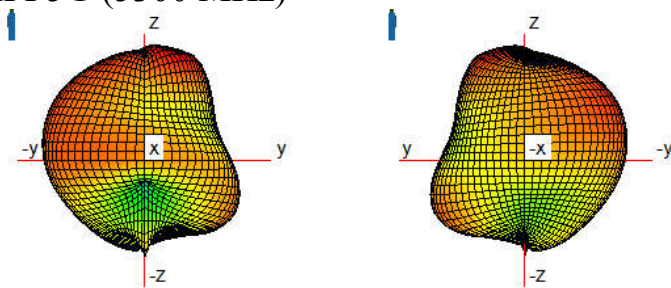
(Rear view– Front view)  
WIFI 2.4G (2450 MHz)



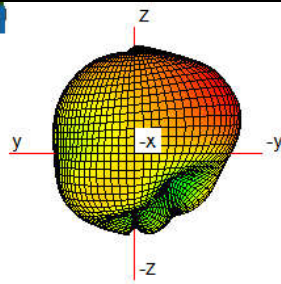
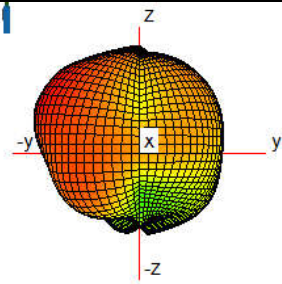
WIFI 5G (5200 MHz)



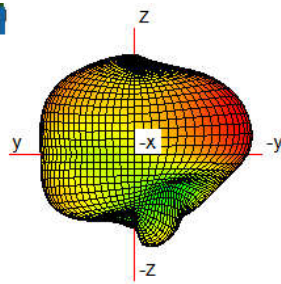
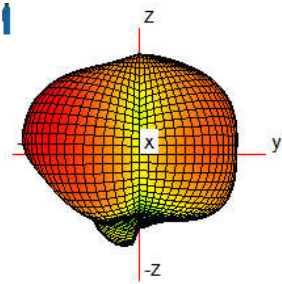
WIFI 5G (5300 MHz)



WIFI 5G (5500 MHz)



WIFI 5G (5800 MHz)



Signature: Guo Kai Xiao

GUO KAI XIAO