

Antenna_Performance_Description_ 20240409_N8

Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd
Product description: Mobile Phone
Model Name: 2405CPX3DG
FCC ID: 2AFZZPX3DG

Test date: 2024/04/09

Tester: 

Antenna	Model Name	Antenna Pattern	Antenna Type	Manufacturer	Test party of Antenna gain
ANT8/9	N8	Metal Frame	PIFA Antenna	AAC Technologies Holding s INC. 8th Floor, Building A, Nanjing University Industry-Academic-Research Base, No. 6 Yuexing 3rd Road, South District, Nanshan District Science and Technology Park, Shenzhen City	AAC Technologies Holding s INC. No. 133 WeiXin Rd, Industrial Park Suzhou, China
ANT10	N8	Metal Frame	PIFA Antenna	AAC Technologies Holding s INC. 8th Floor, Building A, Nanjing University Industry-Academic-Research Base, No. 6 Yuexing 3rd Road, South District, Nanshan District Science and Technology Park, Shenzhen City	AAC Technologies Holding s INC. No. 133 WeiXin Rd, Industrial Park Suzhou, China
NFC (42mm×5.2mm×1mm)	N8	Metal Frame	PIFA Antenna	AAC Technologies Holding s INC. 8th Floor, Building A, Nanjing University Industry-Academic-Research Base, No. 6 Yuexing 3rd Road, South District, Nanshan District Science and Technology Park, Shenzhen City	N/A

Test instrument:GTS2800

Software version

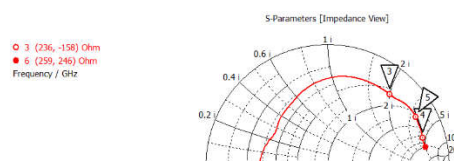
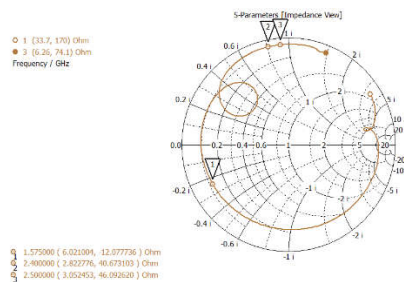
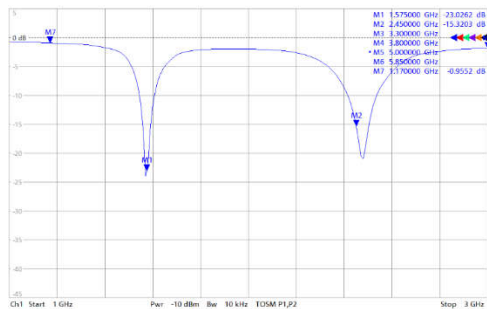
MaxSign Libra
Version - 1.4.0
Patent 9,614,627
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General Test System
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ANT8/9:

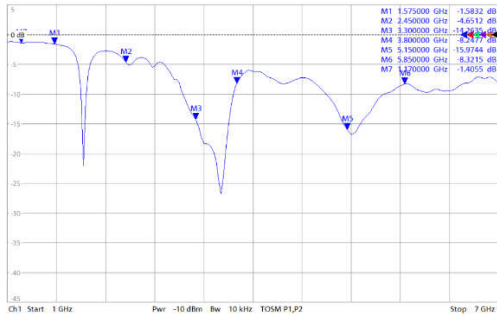
Band	ANT 8/9	
	Effi.(dB)	peak gain(dBi)
2.4G	-6.8	-3.7
5G (5.15-5.25GHZ) 40	-4.33	-0.61
5G (5.25-5.35GHZ)60	-3.29	-0.48
5G (5.47-5.725GHZ)120	-5.01	-1.25
5G (5.725-5.85GHZ)157	-4.47	-1.15
6E (6185-6205GHZ)49	-4.32	-3.73
6E (6185-6205GHZ)105	-6.53	-4.31
6E (6185-6205GHZ)149	-6.07	-4.5
6E (6185-6205GHZ)197	-7.98	-4.2

S11:

2.4G

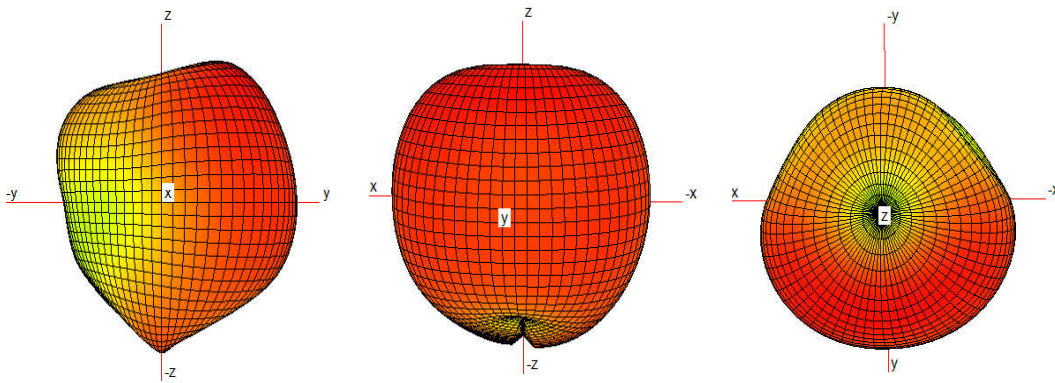


5G&6E:



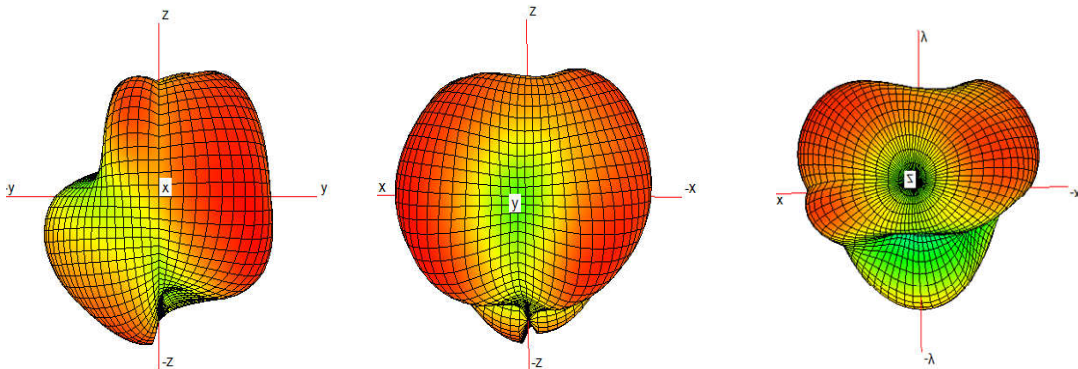
ANT9_2.4G

2450:

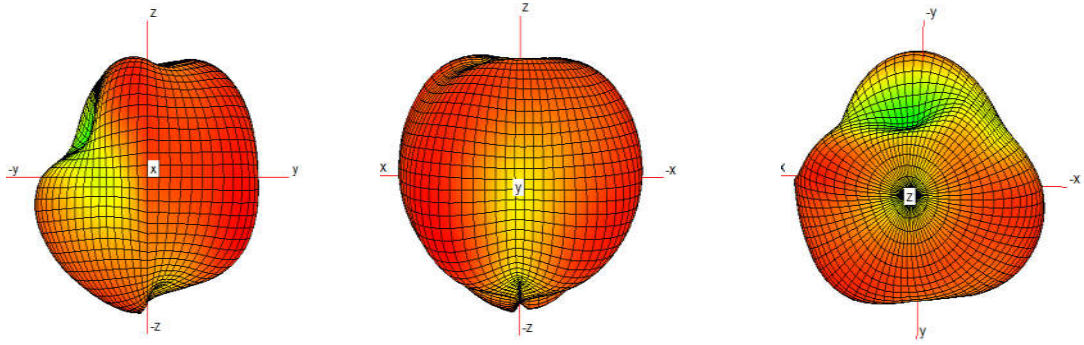


ANT8_5G

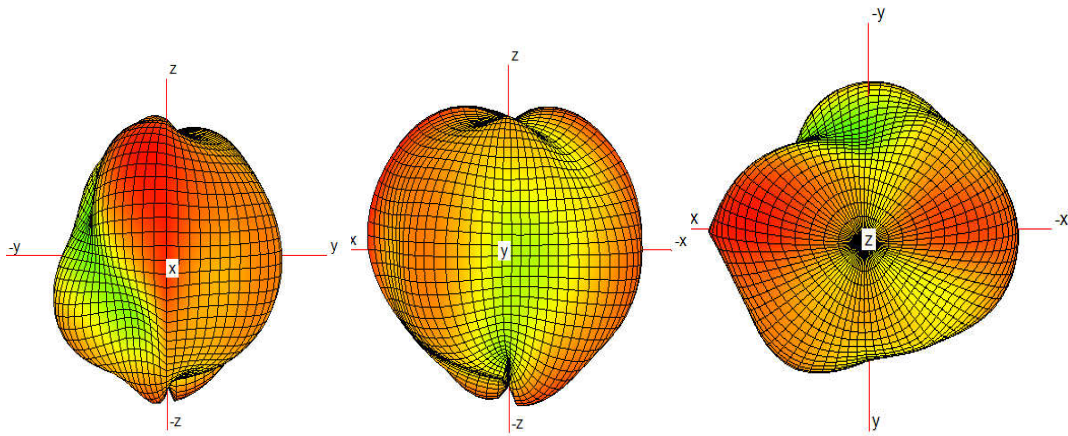
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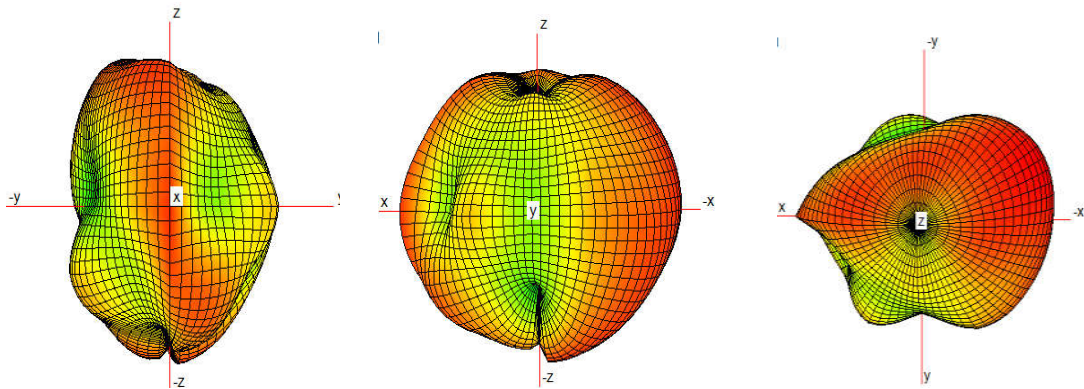
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5600:



5785:

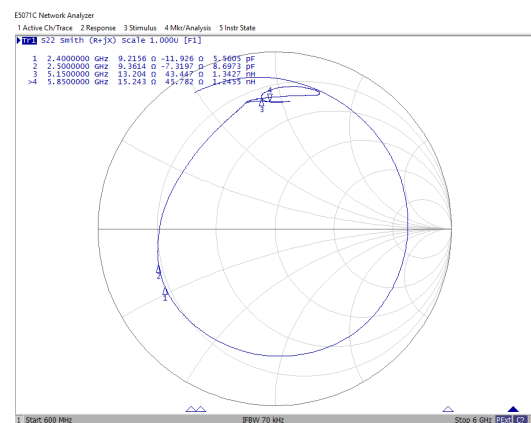
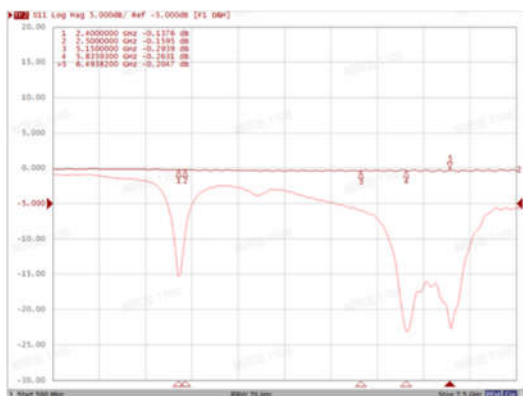


ANT10:

Band	ANT 10	
	Effi.(dBi)	peak gain(dBi)
2.4G	-5.85	-2.78
5G (5.15-5.25GHZ)	-5.2	-0.36
5G (5.25-5.35GHZ)	-5.11	-0.27
5G (5.47-5.725GHZ)	-5.25	-0.14
5G (5.725-5.85GHZ)	-5.56	-1.85
6E (6185-6205GHZ)49	-5.02	-4.52
6E (6185-6205GHZ)105	-6.28	-4.93
6E (6185-6205GHZ)149	-6.56	-5.56
6E (6185-6205GHZ)197	-8.82	-6.89

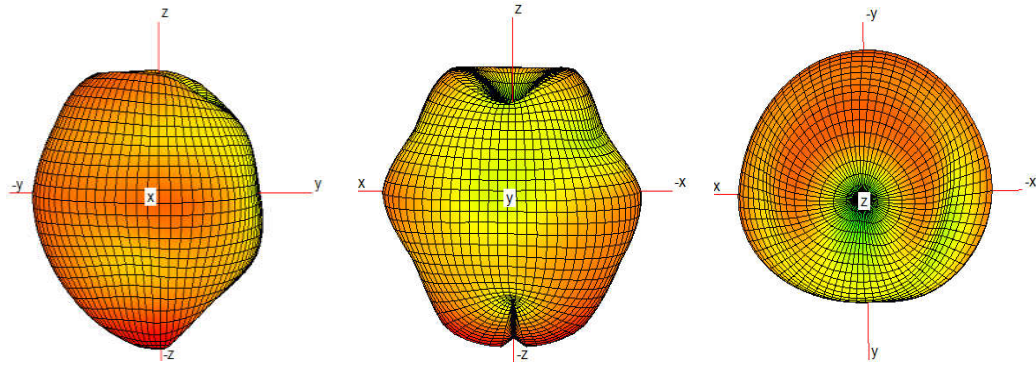
S11

2.4G&5G&6E



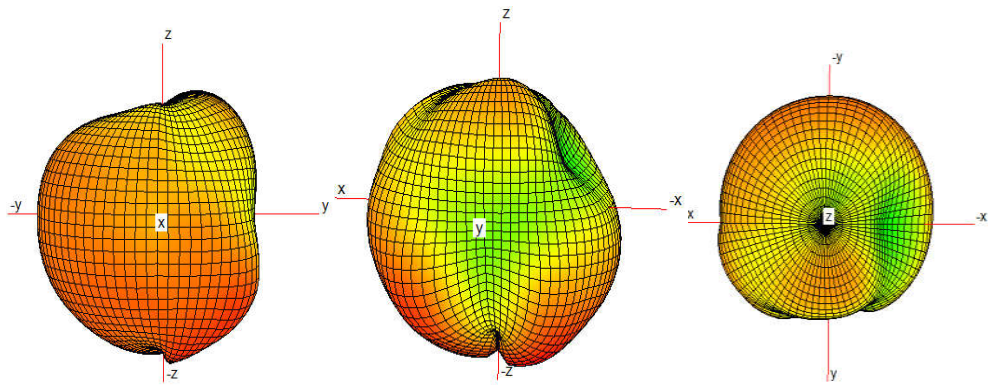
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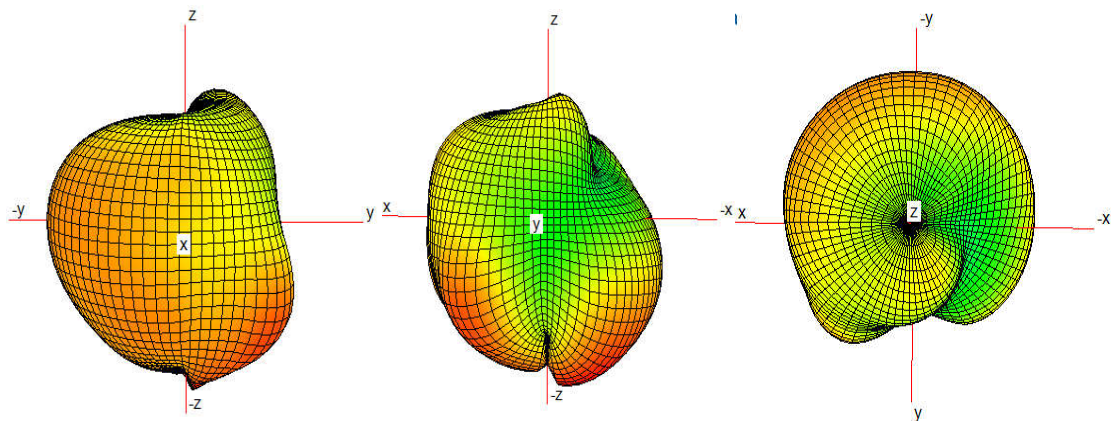


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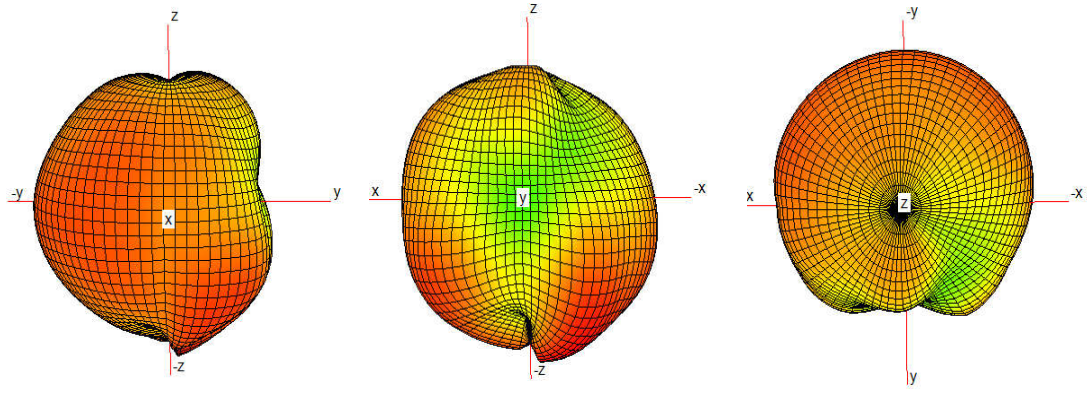
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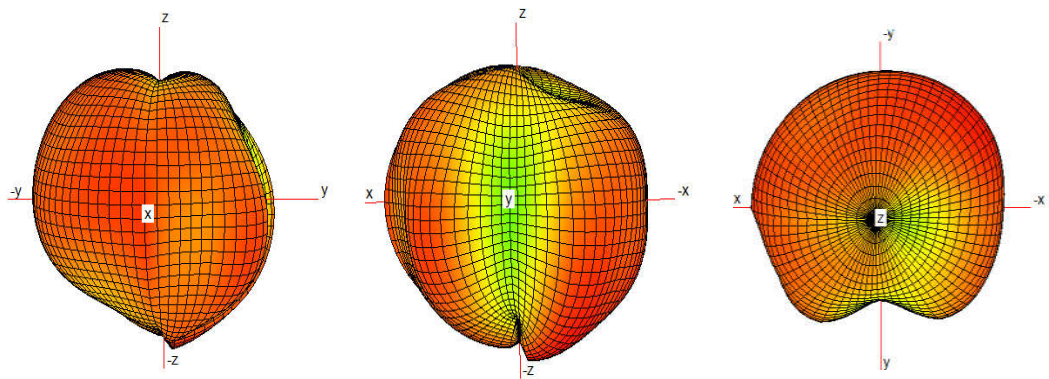
5300:



5600:



5785:



Main Test Instruments:

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
2G/3G/4G Vector Network Analyzer	KEYSIGHT	E5071C	My46733920	2024/3/30	2025/3/30
OTA TEST SYSTEM	GENERAL TEST	RayZone 2800	CT10120480B5054	2024/3/30	2025/3/30