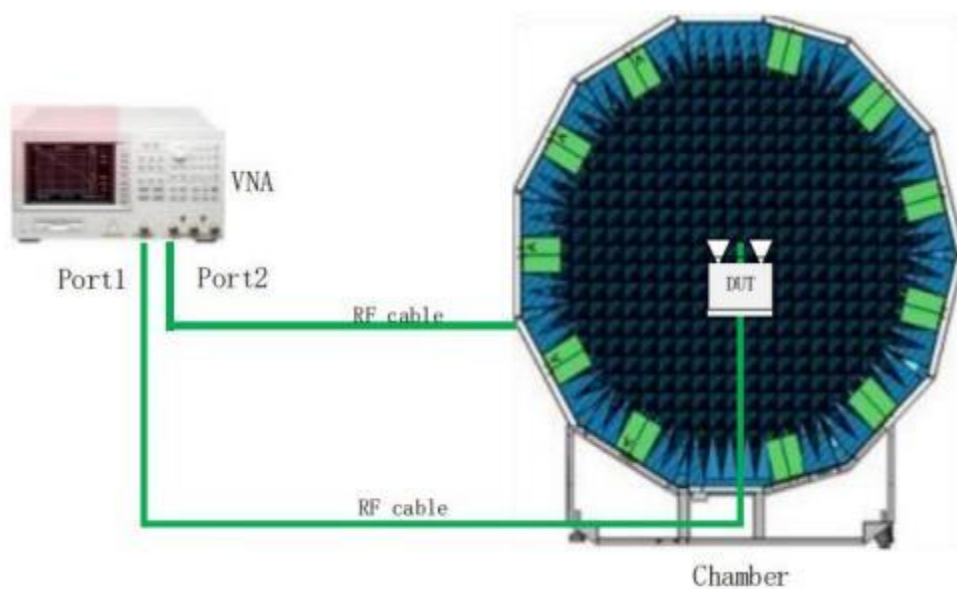


Type and shape of antenna	IFA/LOOP Antenna
Directional characteristics	Omni-directional
Deflection Characteristics of Antenna	Linear
Type of connection with transmitter	antenna shrapnel
Manufacturer	Fortune Techgroup Co.,Ltd. ShangHai Innwave Communication Technology Co., LTD
Measuring Organization	Fortune Techgroup Co.,Ltd. ShangHai Innwave Communication Technology Co., LTD

1.EUT Reference Setup



Tester	Like/Zhoujie
Actual date of testing	2023-08-14
Test description	Use an anechoic chamber to measure the radiation pattern and antenna gain. The GTS laboratory operates at 0.6-5.9GHz. The chamber's reflection level in the range of 0.6GHz to 5.9 GHz is typically ≤ 25 dB. Standard dipoles are used to calibrate for path loss and magnetic ring lines are used to suppress feeder emissions, so we can measure antenna gain.

Test Equipment List

Name of test equipment	Model	Manufacturer	Cal.Due Date	Calibtation Interval
Pattern Measurement Software	General Test	Ray Zone 1800	NA	NA
Network Analyzer	Agilent	E5071B	2023-11-10	One year

2. Antenna Gain

	Test Band	Gain
MAIN GSM	900	-3.61
	1800	-0.63
	1900	-0.75
MAIN UMTS	850	-4.57
	1	-0.99
	2	-0.75
	4	-0.64
	5	-4.57
MAIN LTE	8	-3.61
	1	-0.99
	2	-0.75
	3	-0.63
	4	-0.64
	5	-4.57
	7	-1.74
	8	-3.61
	12	-4.97
	13	-4.57
	17	-4.89
	26	-4.55
	28	-4.73
	38	-1.74
	40	-1.02
41	-1.74	
66	-0.71	
GPS	GPS	-0.36
BT	BT	-1.69
WIFI	2.4G	-1.69
WIFI	5G	-2.14
DIV GSM	900	-4.33
	1800	-1.33
	1900	-0.86
DIV UMTS	850	-4.26
	1	0.13
	2	-0.86
	4	-0.65
	5	-4.26
DIV LTE	8	-4.33
	1	0.13
	2	-0.86
	3	-1.33
	4	-0.65
	5	-4.26
	7	0.88
	8	-4.33
	12	-5.45
	13	-4.93
17	-5.56	
26	-4.36	

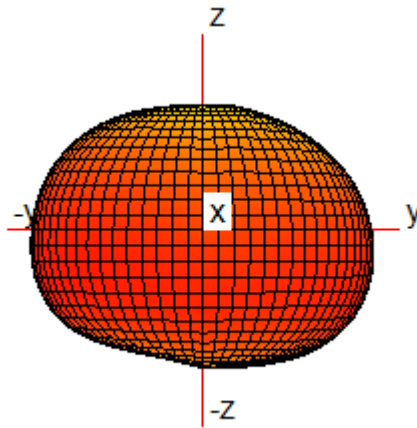
	28	-5.91
	38	-1.35
	40	-1.81
	41	-1.35
	66	-0.53

3. 3D map

MAIN

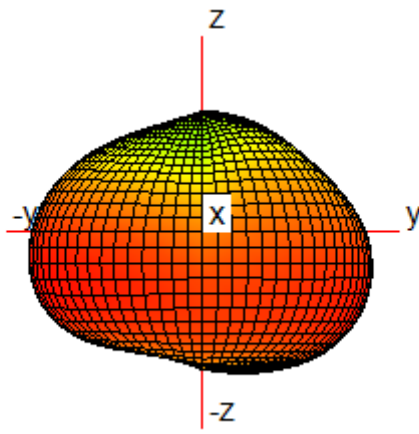
720MHz

Total



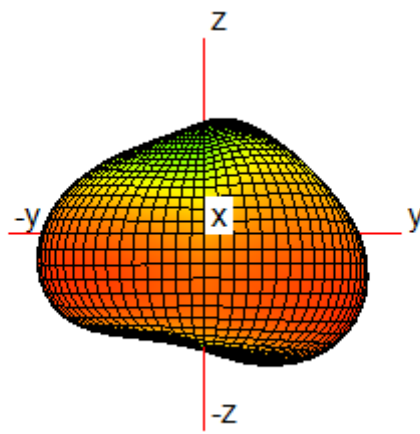
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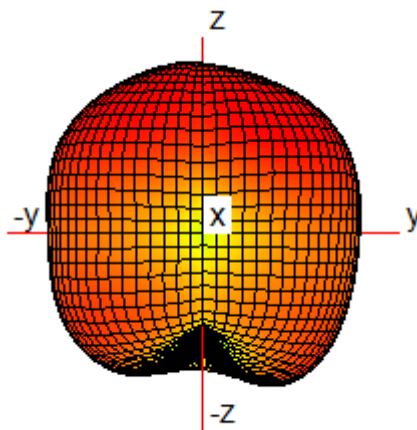
900MHz

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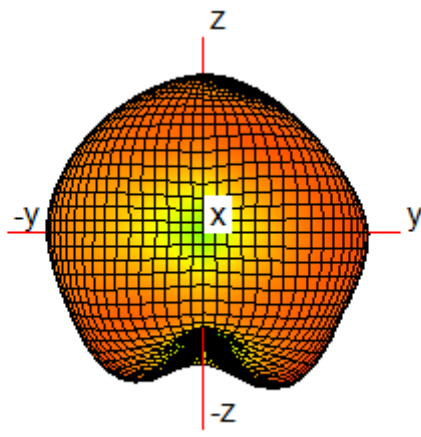
1750MHz

Total



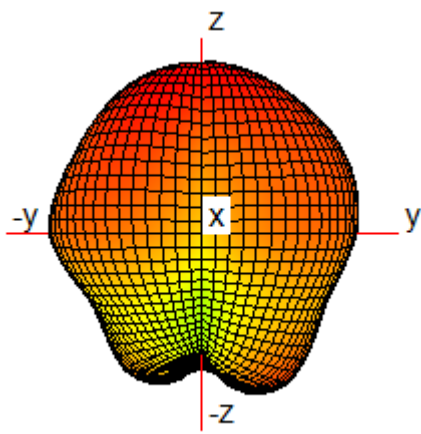
1950MHz

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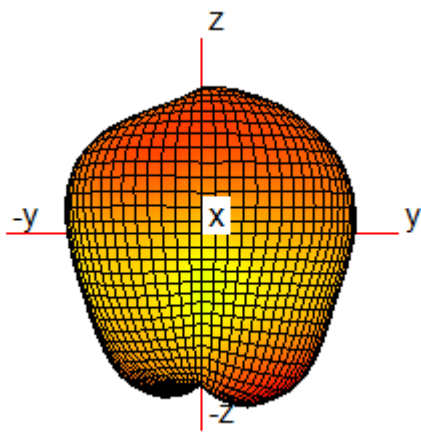
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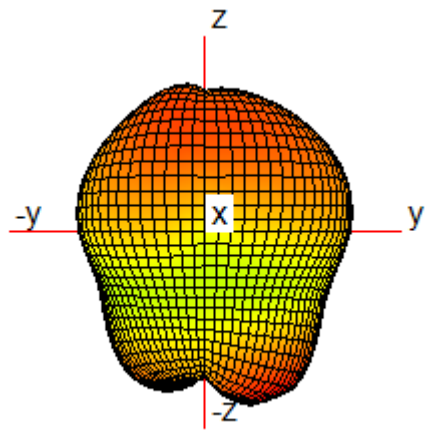
2500MHz

Total



2600MHz

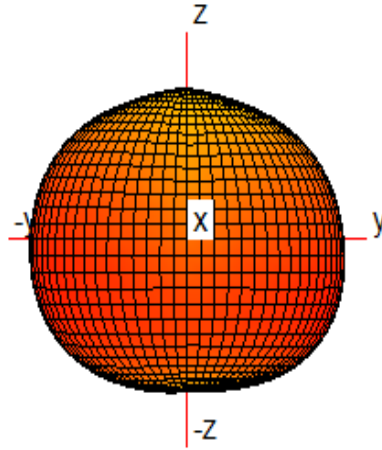
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DIV

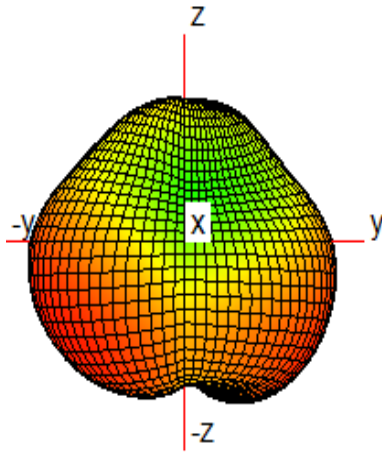
800MHz

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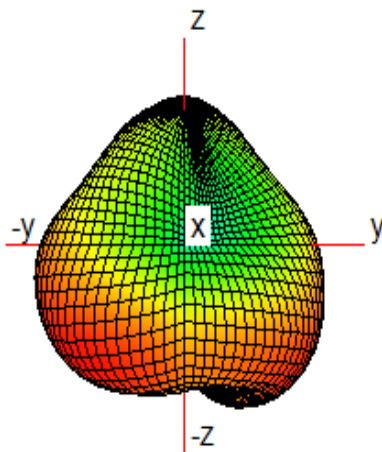
880MHz

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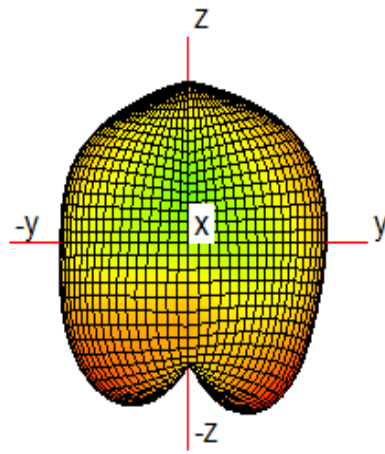
950MHz

Total



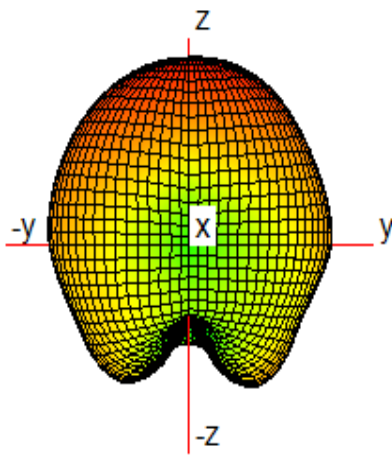
1850MHz

Total



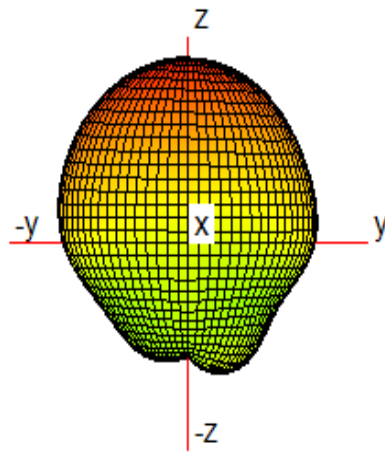
2140MHz

Total

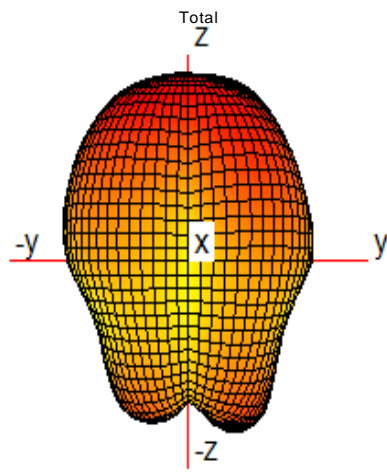


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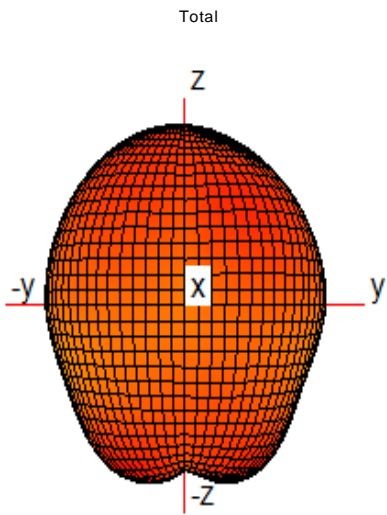
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2500MHz

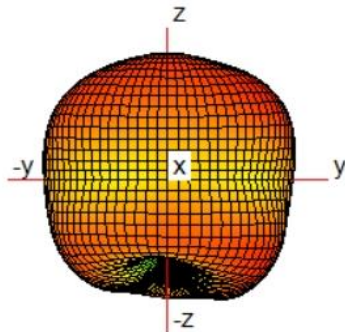


2600MHz

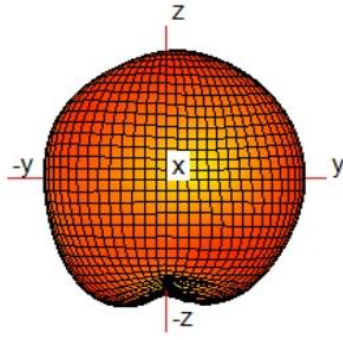


GPS/WIFI/BT

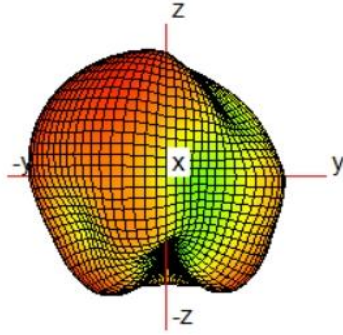
1575MH



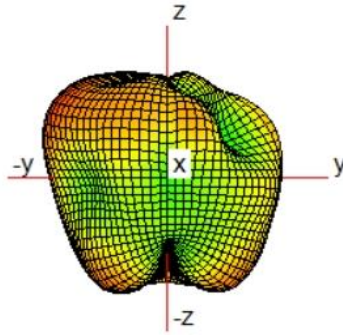
2450MHZ



5150MHZ



5350MHZ



5850MHZ

