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Note:

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1. EUT Information

EUT No.	2024-0018-0001
Type	2.4G_PCB_ANT1
IMEI/SN	/
SW Version	/
HW Version	/
Testing Environment	25°C 35%RH

2. Lab Information

Company Name	Core Wireless (Beijing) Communication Technology Co., LTD
Company Address	Room 101, Building 62, Jinghai 3rd Road, No.109, BDA, Beijing, China 100176
Laboratory Address	Room 101, Building 62, Jinghai 3rd Road, No.109, BDA, Beijing, China 100176
Contacts	Shiyang
Telephone	+86-10-67870336
E-mail	shiyang@newradiolab.com

3. Equipments

No.	Name	Model	S/N	Manufacturer	Cal. Date
1	ENA Vector Network Analyzer	E5071C	MY42202610	Agilent	2024/09/26
2	Anechoic Chamber	AMS8500	N/A	ETS-Lindgren	N/A
3	Switch Controller	TS-RSP	100365	R&S	N/A
4	Multi-Device Positioning Controller	2090	00060093	ETS-Lindgren	N/A
5	Diagonal Dual Polarized Horns	3164-04	1009	ETS-Lindgren	N/A
6	EMQuest	V1.16	N/A	ETS-Lindgren	N/A

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4. Test Results

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	66.44	4.62
2405	66.62	4.69
2410	64.22	4.68
2415	64.62	4.80
2420	65.39	4.96
2425	64.26	5.01
2430	63.56	5.01
2435	63.55	5.09
2440	63.87	5.03
2445	64.33	5.03
2450	64.80	4.95
2455	64.77	4.75
2460	65.41	4.73
2465	66.43	4.81
2470	65.71	4.69
2475	64.10	4.57
2480	63.96	4.63
2485	62.76	4.59
2490	62.13	4.54
2495	61.32	4.43
2500	62.23	4.58

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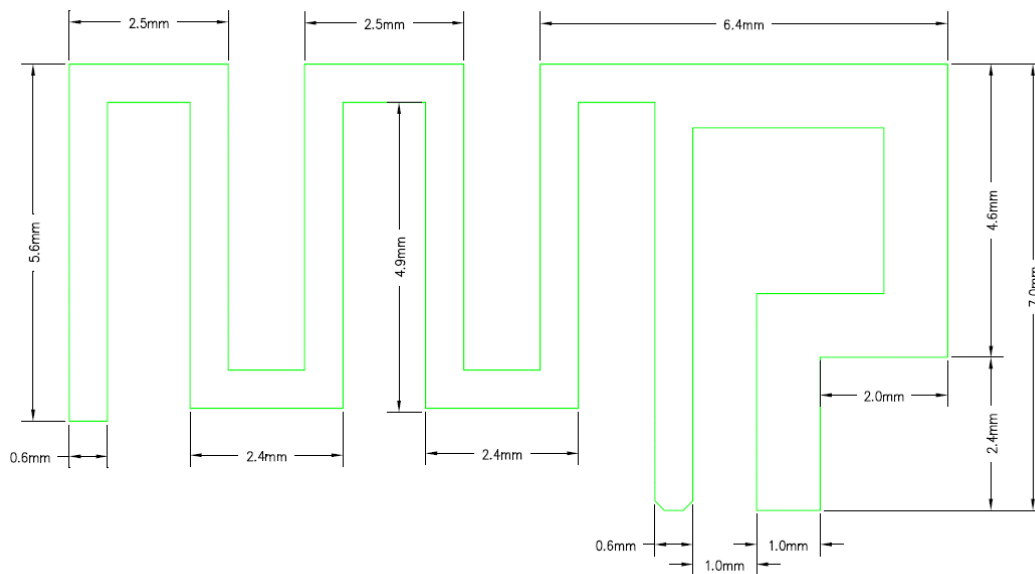
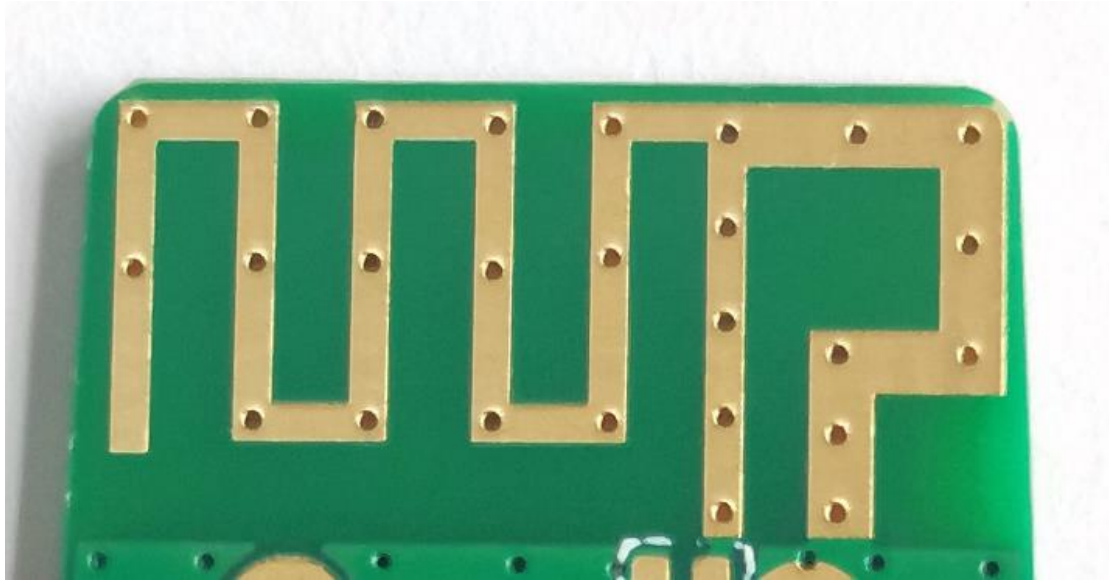
Appendix A: Reference Documents

Reference	Title	Version
IEEE Std 149	IEEE Recommended Practice for Antenna Measurements	2021
GB/T 9410	General specification for antennas used in the mobile communications	2008

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Appendix B: EUT Photographs



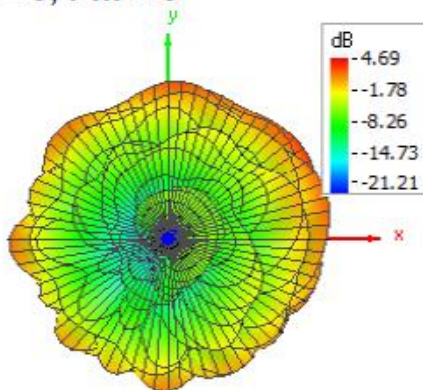
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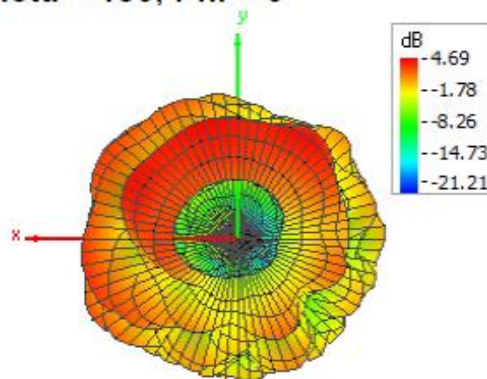
Appendix C: 3D Pattern Plots

2405MHz

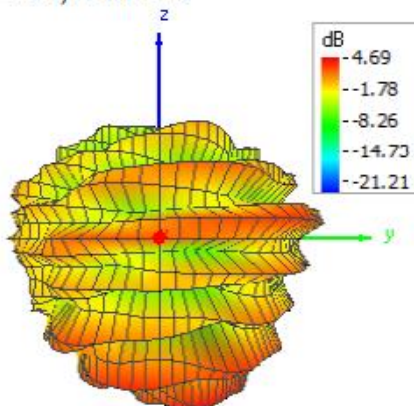
Theta = 0, Phi = 0



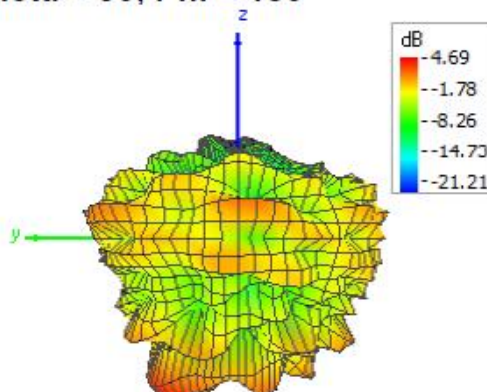
Theta = 180, Phi = 0



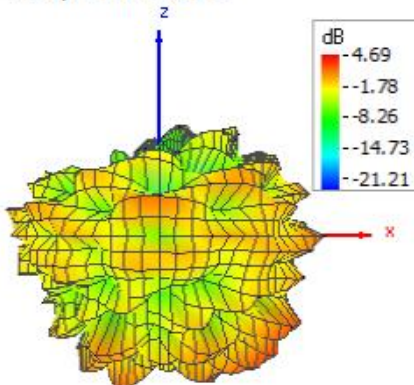
Theta = 90, Phi = 0



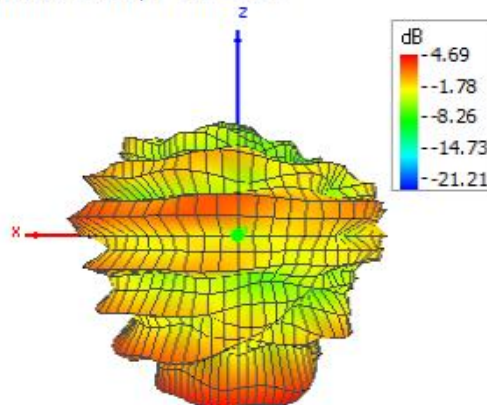
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

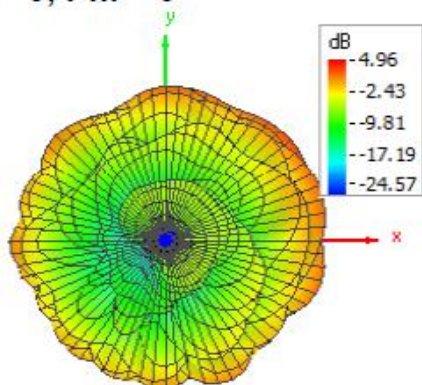


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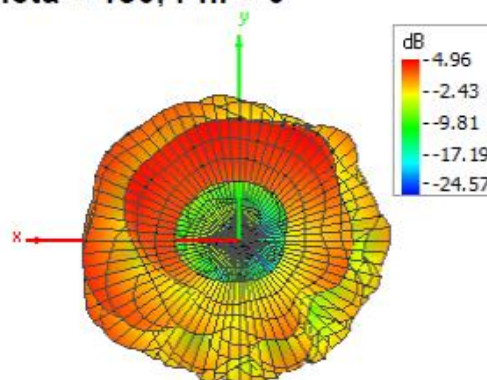
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2420MHz

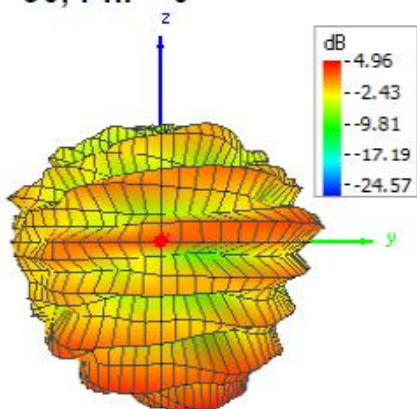
Theta = 0, Phi = 0



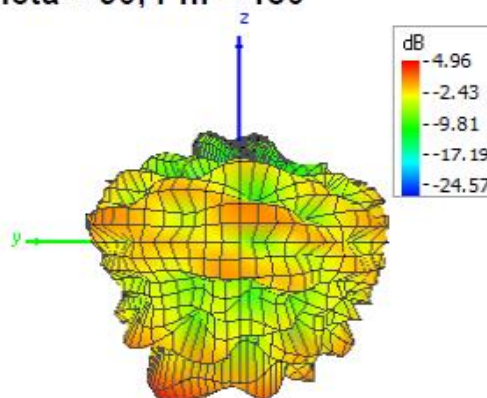
Theta = 180, Phi = 0



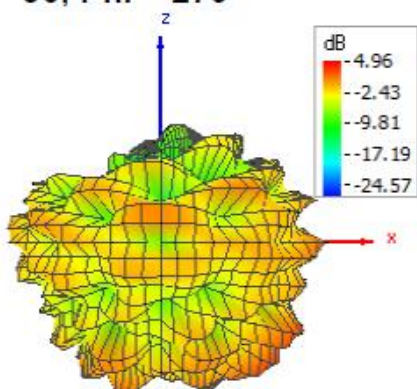
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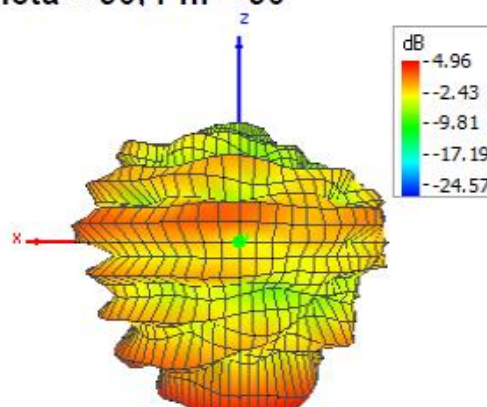
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

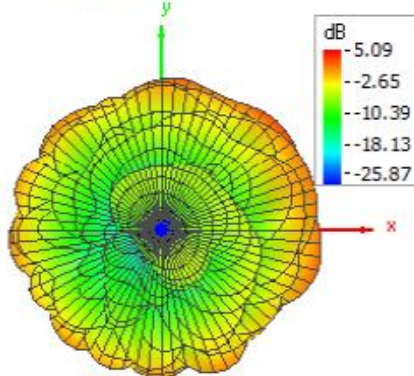


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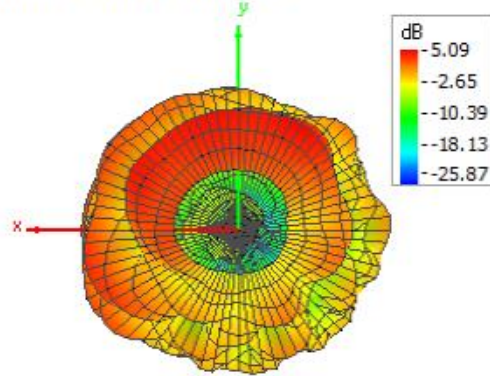
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2435MHz

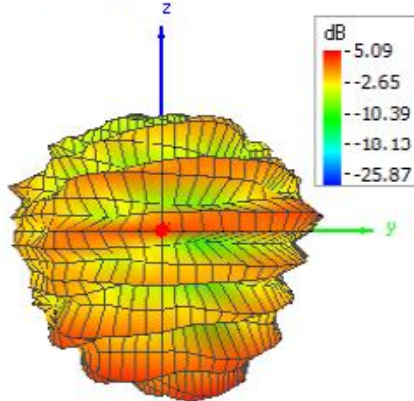
Theta = 0, Phi = 0



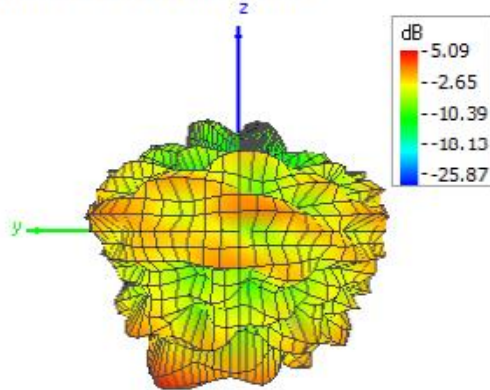
Theta = 180, Phi = 0



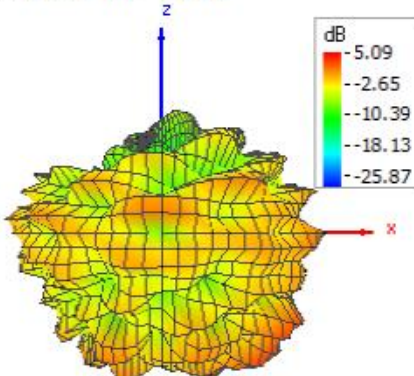
Theta = 90, Phi = 0



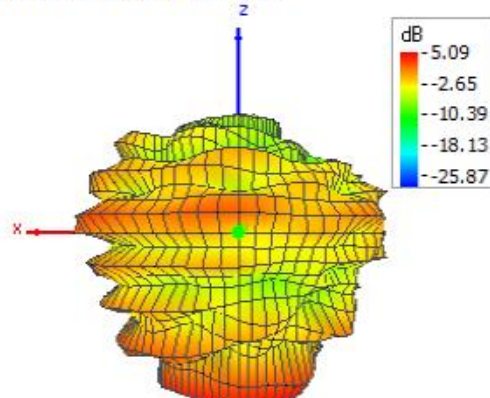
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

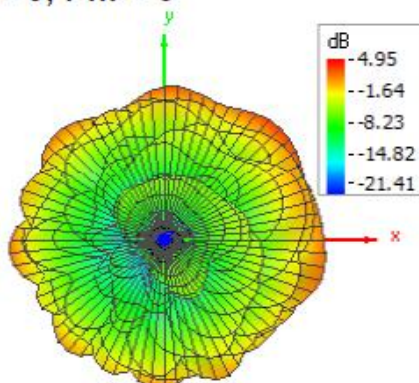


Note:

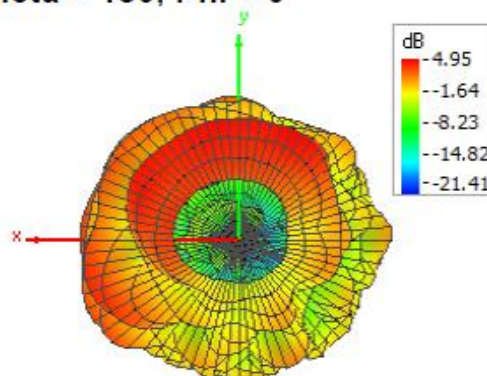
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2450MHz

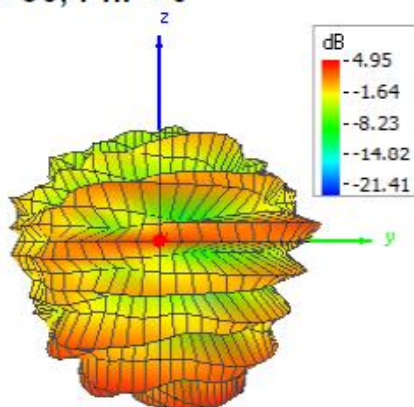
Theta = 0, Phi = 0



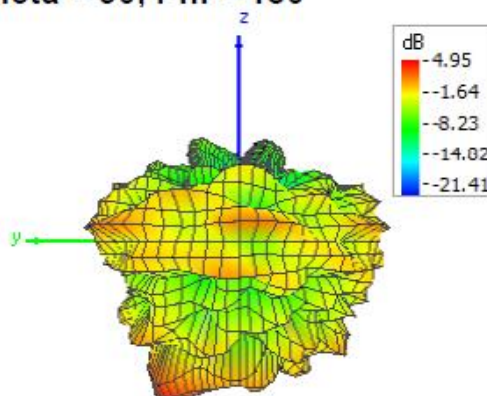
Theta = 180, Phi = 0



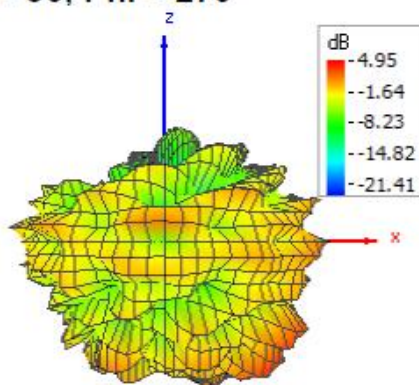
Theta = 90, Phi = 0



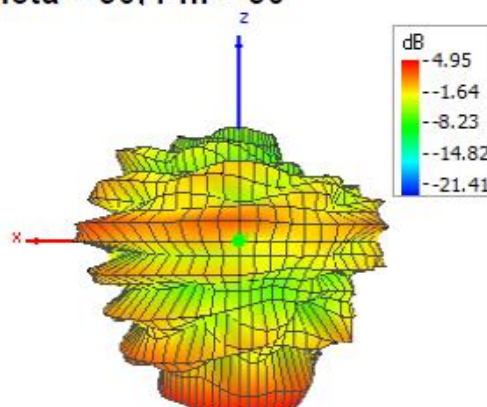
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

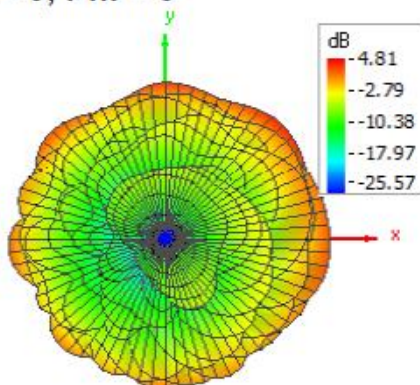


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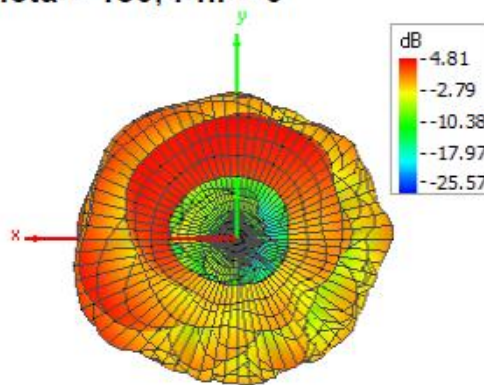
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2465MHz

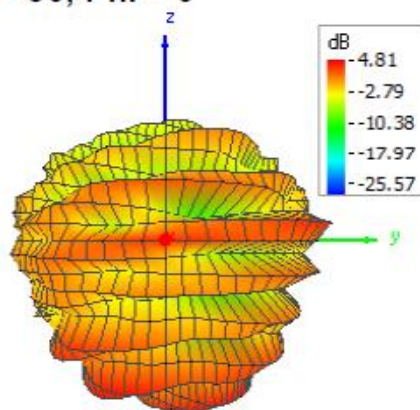
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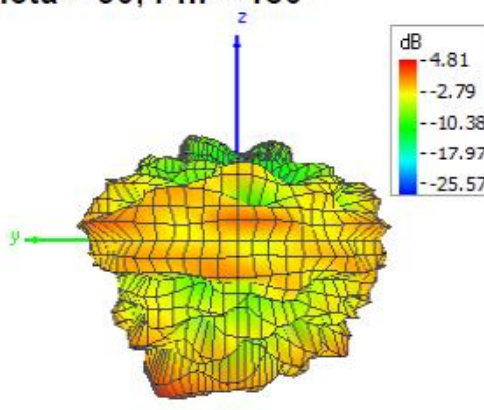
Theta = 180, Phi = 0



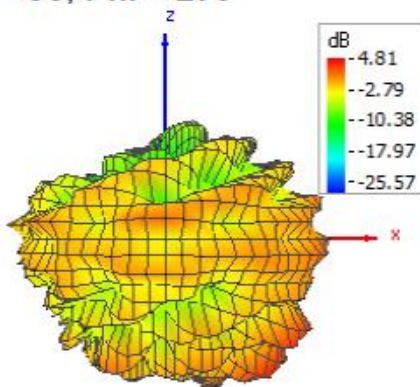
Theta = 90, Phi = 0



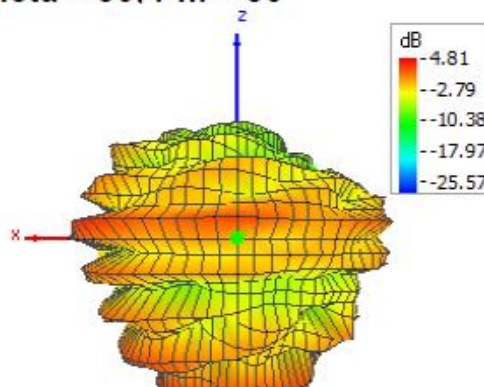
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

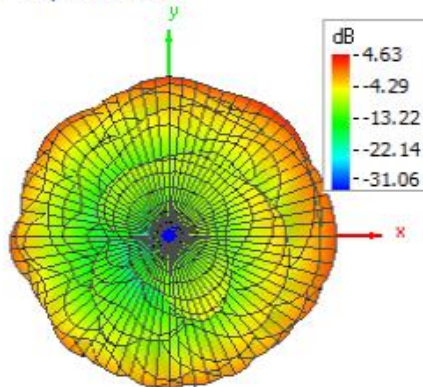


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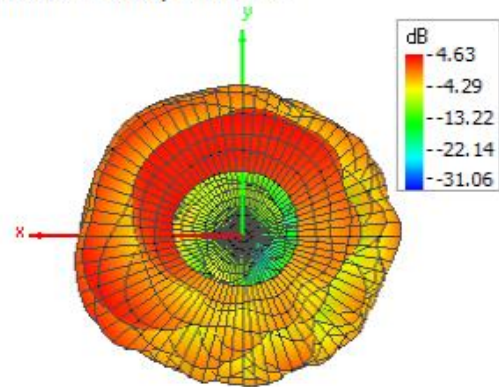
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2480MHz

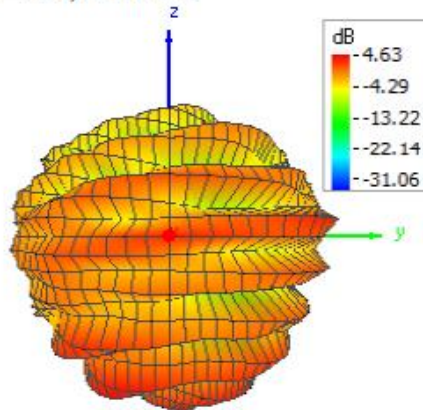
Theta = 0, Phi = 0



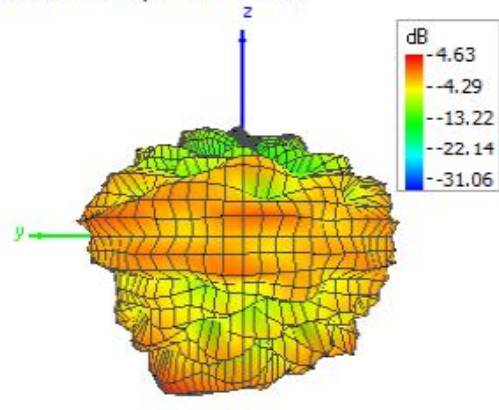
Theta = 180, Phi = 0



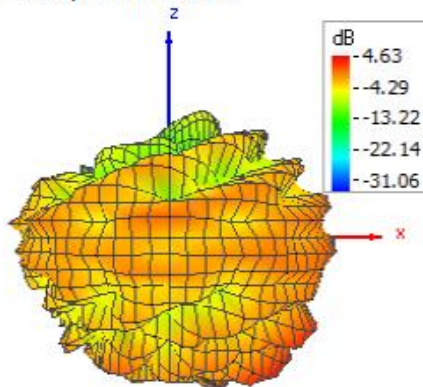
Theta = 90, Phi = 0



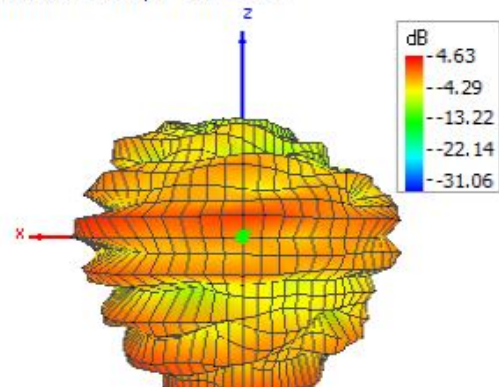
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

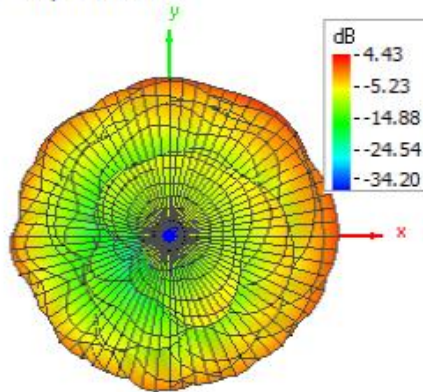


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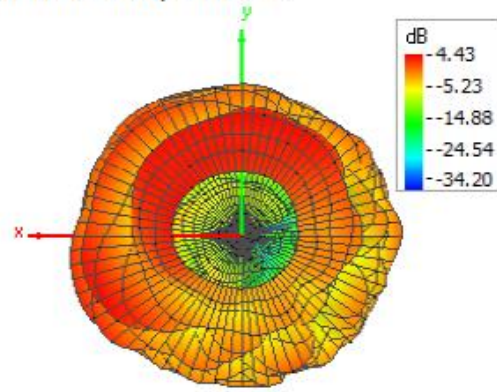
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2495MHz

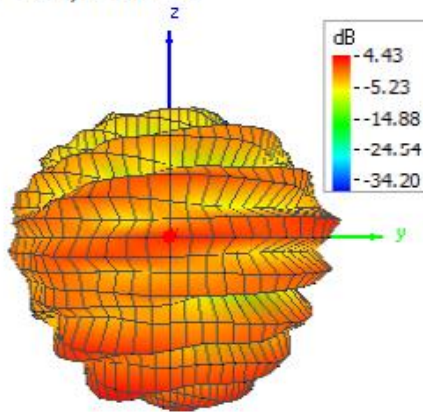
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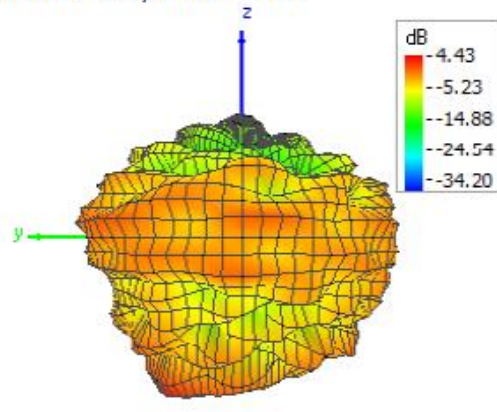
Theta = 180, Phi = 0



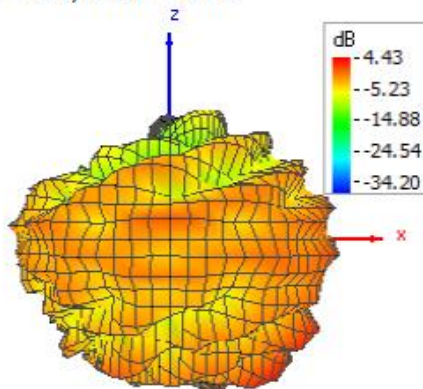
Theta = 90, Phi = 0



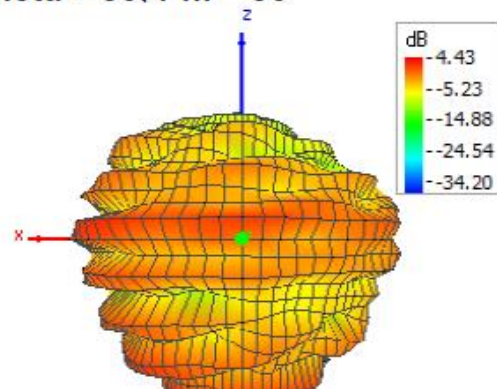
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90



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