



TAOGLAS®



Datasheet

Olympian III

Part No:
MA183.A.001

Description

Olympian III 3in1 Screw Mount 2*5G/4G with 1m TGC-1.5DS SMA(M) & Wi-Fi with 1m RG-174 RP-SMA(M)

Features:

- 2* 4G-5G MIMO 600 to 6000MHz
- 1* WI-FI covering 2.4GHz/5.8GHz/7.125GHz
- IP67 Waterproof Enclosure
- Dims: Ø59.45mm x 70mm
- Cables: 4G-5G 1m of TGC-1.5DS / Wi-Fi 1m of RG174
- Connectors: SMA(M)ST / RP-SMA(M)
- Custom Cables and Connectors Available
- RoHS & Reach Compliant

1.	Introduction	3
2.	Specification	4
3.	Mechanical Drawing	6
4.	Packaging	7
5.	Antenna Characteristics	8
6.	Radiation Patterns	15
	Changelog	73

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1. Introduction



The Taoglas Olympian III, MA183 is a high performance 3-in-1 combination 5G/4G MIMO and Wi-Fi Tri-band permanent mount antenna in a compact housing at 70mm tall and 59mm in diameter. It is ideal for external use on vehicles and outdoor assets requiring GNSS, and 4G-5G MIMO connectivity.

The 5G/4G antennas, cover all worldwide LTE bands, includes many sub 6GHz, 5G FR1 bands and also includes fallback to 3G/2G bands where required, especially improving the design to eliminate the cable radiation to make the antenna will not be impacted after installed on a metal box. It also contains a wideband Wi-Fi antenna covering newly established Wi-Fi 6/7 frequencies, along with the legacy 2.4/5.8GHz Wi-Fi and Bluetooth frequencies. This makes MA183 antenna can be mounted on metal and plastic structures, and both works well. Taoglas recommend a minimum of 1m cable lengths for stable antenna performance.

The IP67 rated enclosure is made from a durable, ASA material that makes it resistant to vandalism. An integrated rubber O-ring under the enclosure prevents water ingress under the antenna. It is mounted from the inside of the user device enclosure and the small thread allows for installation in situations where space is minimal.

Typical Applications Include:

- Smart Metering and Remote Monitoring
- Digital Signage
- Transportation and Telematics

Cable and connectors are customizable. The MA183 can be supplied with low loss TGC-200 cable extensions for longer cable runs and also available in white (MA183.W.001). Please contact your regional Taoglas customer support team for further information.

2. Specification

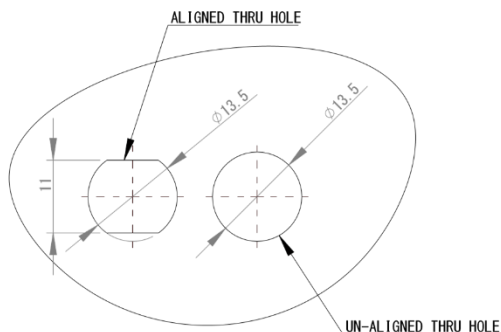
4G-5G Electrical									
Band	Frequency (MHz)	Measurement	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	Impedance	Polarization	Radiation Pattern	Max. input power
5G NR/4G Band 71	617-698	4G-5G 1 - 30x30cm Ground Plane	58.5	-2.33	6.79	50 Ω	Linear	Omni	10W
		4G-5G 1 - Free Space	33.3	-4.77	1.08				
		4G-5G 1- MetalBox	37.8	-4.23	0.60				
		4G-5G 2 - 30x30cm Ground Plane	47.4	-3.24	5.44				
		4G-5G 2 - Free Space	26.5	-5.77	0.33				
		4G-5G 2 - MetalBox	38.1	-4.19	-0.01				
4G/3G Band 12,13,14,17,28,29	698-806	4G-5G 1 - 30x30cm Ground Plane	53.6	-2.71	5.10				
		4G-5G 1 - Free Space	47.9	-3.19	2.38				
		4G-5G 1- MetalBox	30.3	-5.19	0.60				
		4G-5G 2 - 30x30cm Ground Plane	53.7	-2.70	4.59				
		4G-5G 2 - Free Space	41.9	-3.78	1.12				
		4G-5G 2 - MetalBox	38.5	-4.14	0.33				
4G/3G/NB-IoT/Cat M Band 5,8,18,19,20,26,27	824-960	4G-5G 1 - 30x30cm Ground Plane	55.5	-2.55	5.48				
		4G-5G 1 - Free Space	61.1	-2.14	4.63				
		4G-5G 1- MetalBox	35.4	-4.51	2.26				
		4G-5G 2 - 30x30cm Ground Plane	57.4	-2.41	4.16				
		4G-5G 2 - Free Space	58.6	-2.32	3.26				
		4G-5G 2 - MetalBox	22.3	-6.52	0.78				
5G NR/4G Band 21,32,74,75,76	1427-1518	4G-5G 1 - 30x30cm Ground Plane	13.8	-8.60	-0.01				
		4G-5G 1 - Free Space	23.1	-6.37	0.03				
		4G-5G 1- MetalBox	6.8	-11.67	-2.57				
		4G-5G 2 - 30x30cm Ground Plane	19.3	-7.15	0.47				
		4G-5G 2 - Free Space	21.7	-6.63	-0.49				
		4G-5G 2 - MetalBox	5.0	-13.04	-2.50				
4G/3G Band 1,2,3,4,9,23,25,35,39,66	1710-2200	4G-5G 1 - 30x30cm Ground Plane	60.9	-2.16	4.42				
		4G-5G 1 - Free Space	70.4	-1.52	4.39				
		4G-5G 1- MetalBox	56.7	-2.47	4.84				
		4G-5G 2 - 30x30cm Ground Plane	66.4	-1.78	4.50				
		4G-5G 2 - Free Space	67.2	-1.73	5.23				
		4G-5G 2 - MetalBox	55.8	-2.53	4.67				
4G/3G Band 7,30,38,40,41	2300-2690	4G-5G 1 - 30x30cm Ground Plane	67.6	-1.70	5.49				
		4G-5G 1 - Free Space	64.9	-1.87	3.06				
		4G-5G 1- MetalBox	62.7	-2.03	5.78				
		4G-5G 2 - 30x30cm Ground Plane	67.5	-1.71	5.38				
		4G-5G 2 - Free Space	64.5	-1.91	3.43				
		4G-5G 2 - MetalBox	63.3	-1.99	4.69				
5G NR/4G Band 22,42,48,77,78,79	3300-5000	4G-5G 1 - 30x30cm Ground Plane	54.9	-2.61	5.10				
		4G-5G 1 - Free Space	54.6	-2.63	3.35				
		4G-5G 1- MetalBox	52.3	-2.82	5.05				
		4G-5G 2 - 30x30cm Ground Plane	50.9	-2.93	5.32				
		4G-5G 2 - Free Space	49.9	-3.02	4.10				
		4G-5G 2 - MetalBox	46.1	-3.36	5.63				
LTE5200/Wi-Fi5800	5150-5925	4G-5G 1 - 30x30cm Ground Plane	54.8	-2.61	6.07				
		4G-5G 1 - Free Space	55.6	-2.55	5.22				
		4G-5G 1- MetalBox	52.0	-2.84	6.38				
		4G-5G 2 - 30x30cm Ground Plane	54.4	-2.65	6.09				
		4G-5G 2 - Free Space	53.1	-2.75	4.85				
		4G-5G 2 - MetalBox	50.0	-3.01	6.03				
Taoglas recommends using 4G-5G 2 as the primary antenna and 4G-5G 1 as secondary/diversity for the metal box set up.									

Wi-Fi Electrical									
Band	Frequency (MHz)	Measurement	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	Impedance	Polarization	Radiation Pattern	Max. input power
Wi-Fi - 2GHz	2400-2500	Wi-Fi - 30x30cm Ground Plane	56.2	-2.50	4.08	50 Ω	Linear	Omni	2W
		Wi-Fi - Free Space	43.9	-3.58	4.20				
		Wi-Fi - MetalBox	40.5	-3.93	6.47				
Wi-Fi - 5GHz	5150-5850	Wi-Fi - 30x30cm Ground Plane	57.6	-2.39	5.61				
		Wi-Fi - Free Space	64.0	-1.94	4.96				
		Wi-Fi - MetalBox	48.2	-3.17	6.26				
Wi-Fi - 6GHz	5925-7125	Wi-Fi - 30x30cm Ground Plane	54.7	-2.62	6.82				
		Wi-Fi - Free Space	57.5	-2.40	5.72				
		Wi-Fi - MetalBox	49.6	-3.05	6.26				

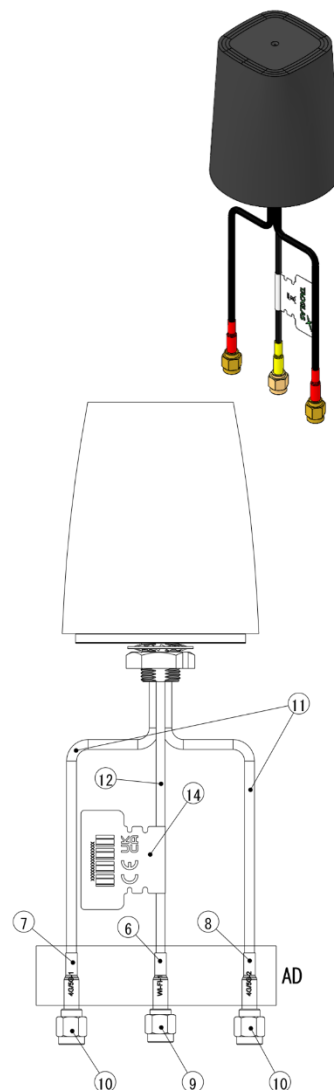
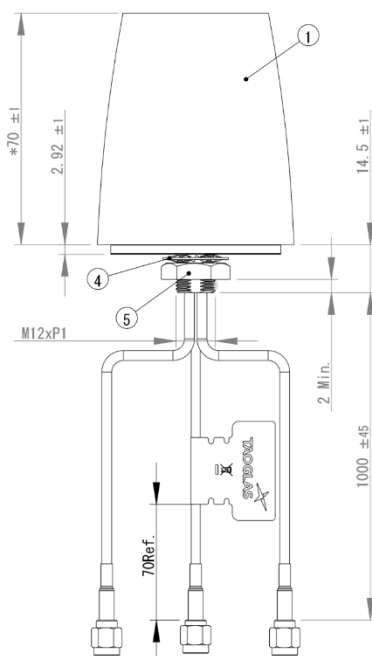
Mechanical	
Dimensions	Ø59.45mm x 70mm
Weight	130g
Material	ASA
Connector	4G/5G - SMA(M) / Wi-Fi - RP-SMA(M)
Cable	4G/5G : 1m of TGC-1.5DS Wi-Fi : 1m of RG174

Environmental	
Waterproof Rating	IP67
Operation Temperature	-40°C - +85°C
Storage Temperature	-40°C - +85°C
RoHs & REACH Compliant	Yes

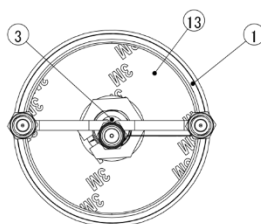
3. Mechanical Drawing



Mounting Hole Recommendation



	Name	Material	Finish	Qty
1	Top housing	ASA	Black	1
2	Bottom housing	ASA	Black	1
3	Grommet	Silicone Rubber	Black	1
4	Multi Tooth Washer	SUS304	NA	1
5	Nut M12_Cut	Brass	Ni Plated	1
6	Heat Shrink Tube (WI-FI-1)	PE	Yellow tube/ Black text	1
7	Heat Shrink Tube(4G/5G-1)	PE	Red Tube/White Text	1
8	Heat Shrink Tube(4G/5G-2)	PE	Red Tube/White Text	1
9	SMA(M)ST_RP	Brass	AU PLATING	1
10	SMA(M)ST Plug for low loss1.5DS	Brass	Au Plated	2
11	TGC-1.5DS Coaxial Cable	XLPE	Black	2
12	RG174 Coaxial Cable	PVC	Black	1
13	Double Sided Adhesive	E4308+3 M 9448HK	Black foam/white liner	1
14	CE,WEEE and UKCA mark logo Label	PEPA	White	1



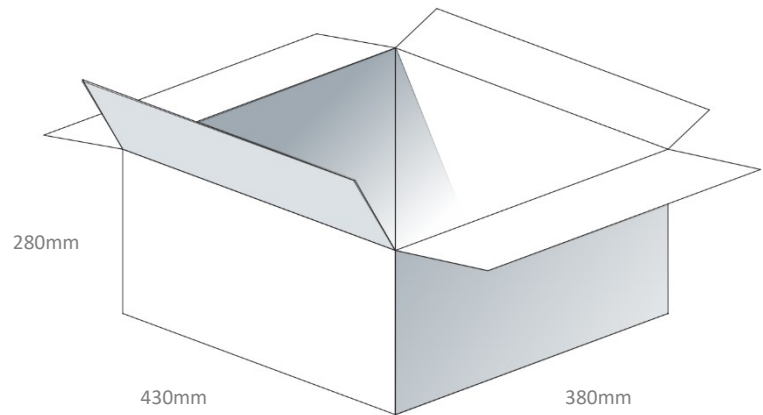
DETAIL AD
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4. Packaging

1pc MA183 per PE Bag
Weight: 130g



60pcs MA183 per Carton
Carton Dimensions: 430x380x280mm
Weight: 8.9Kg



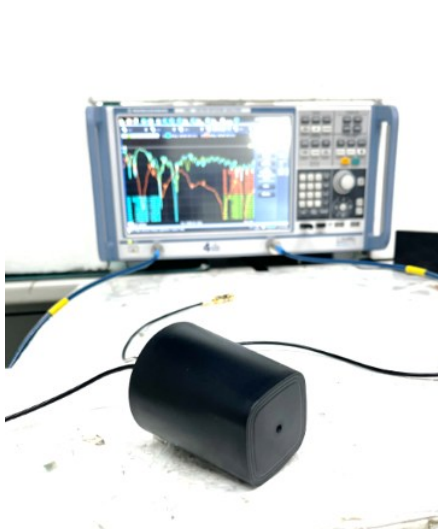
5. Antenna Characteristics

5.1 Test Setup

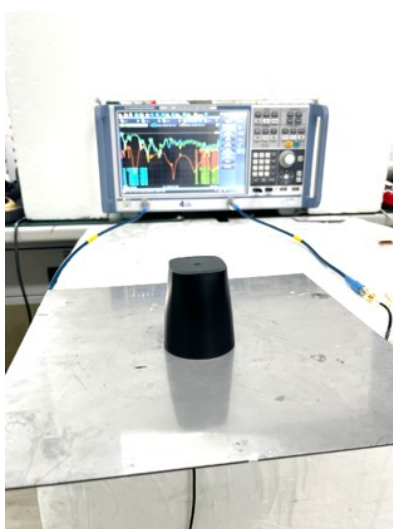
AUT



Vector Network Analyzer



Free Space

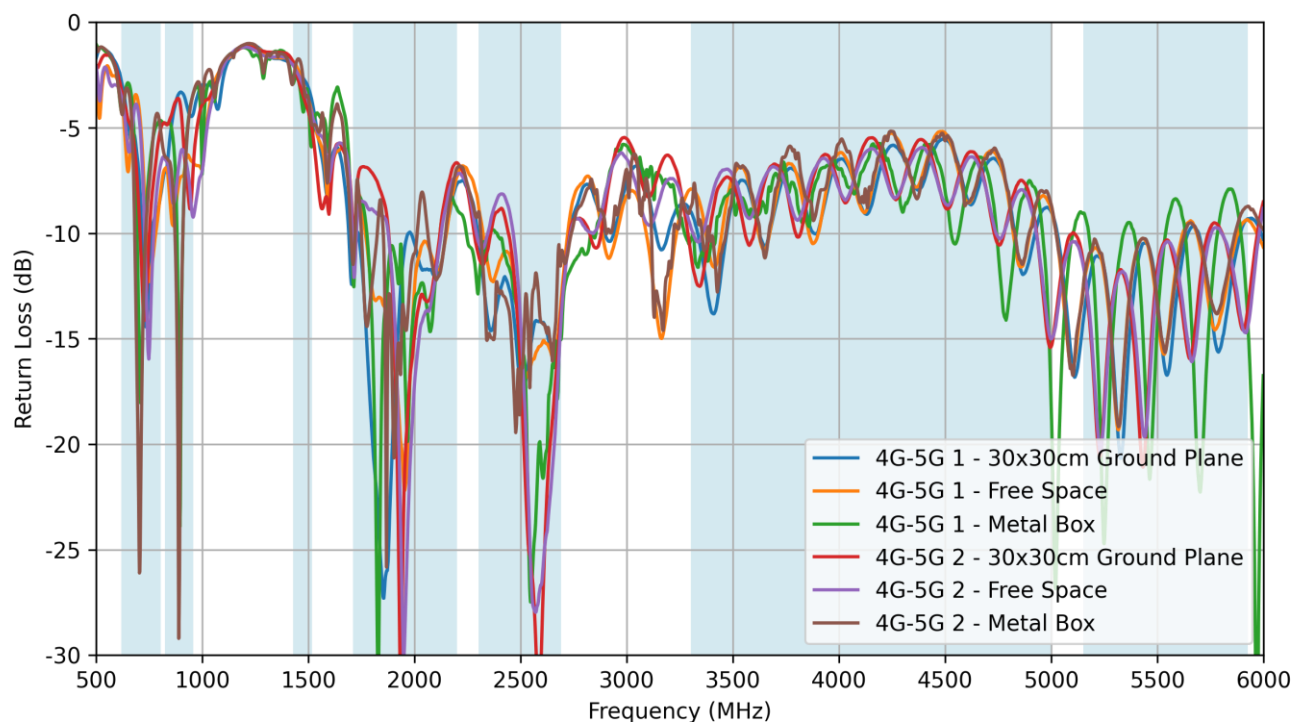


30x30cm Metal Ground Plane

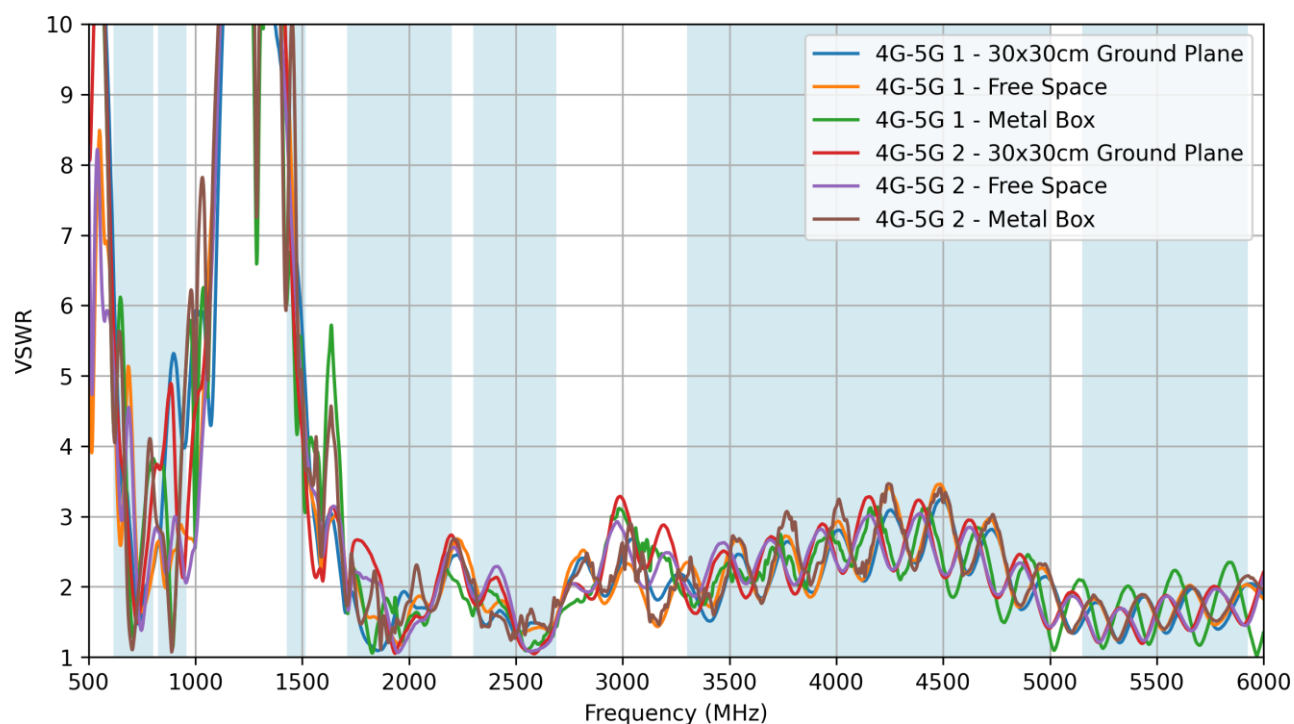


Metal Box

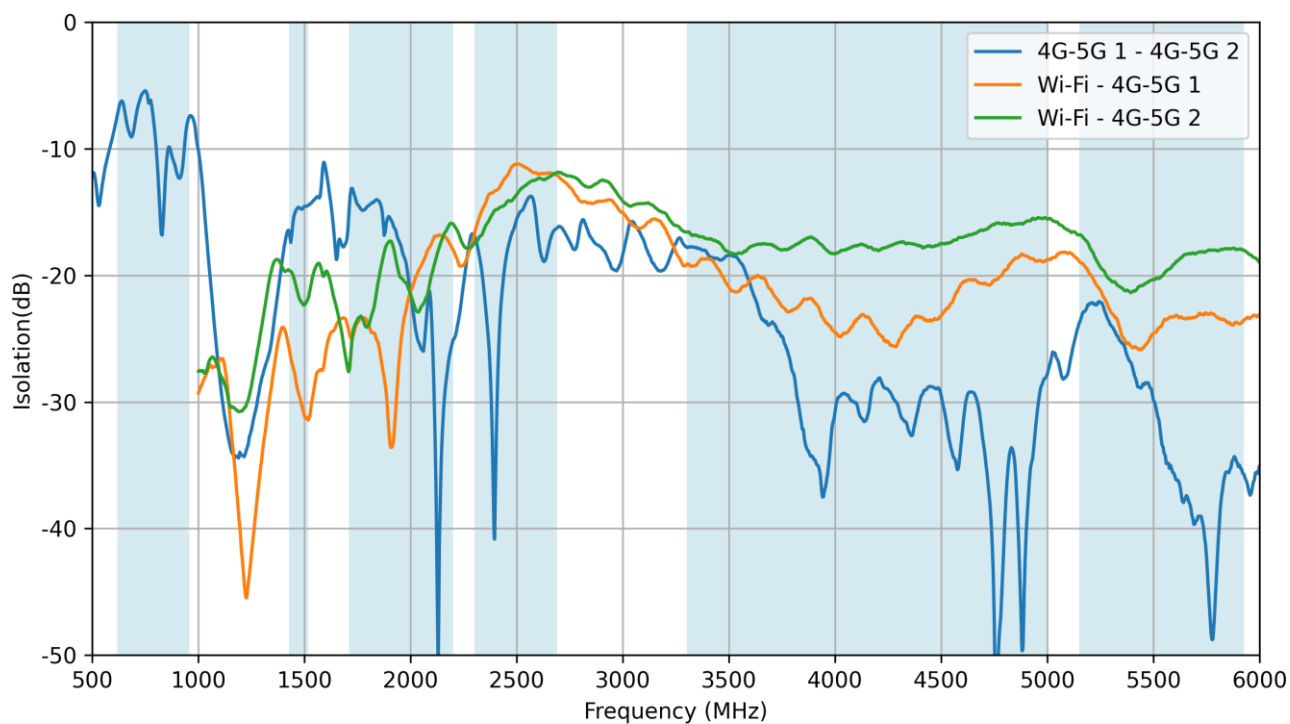
5.2 4G-5G - Return Loss



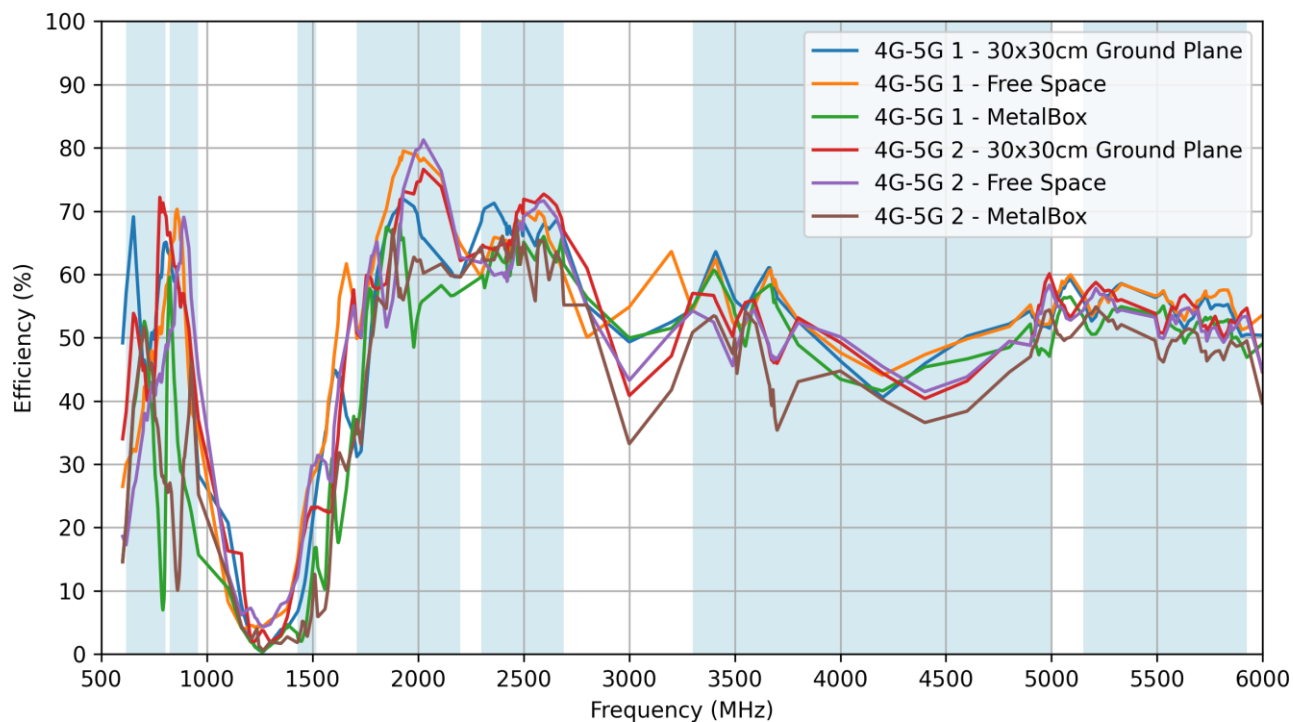
5.3 4G-5G - VSWR



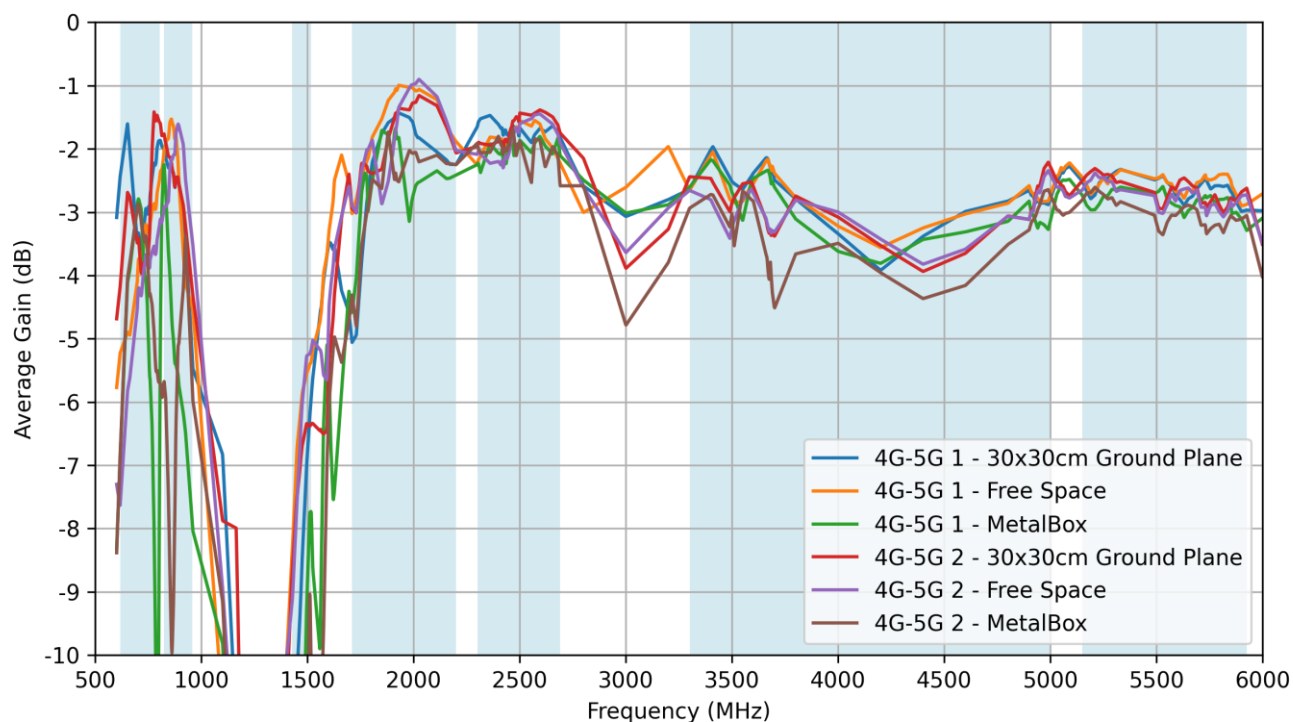
5.4 Isolation



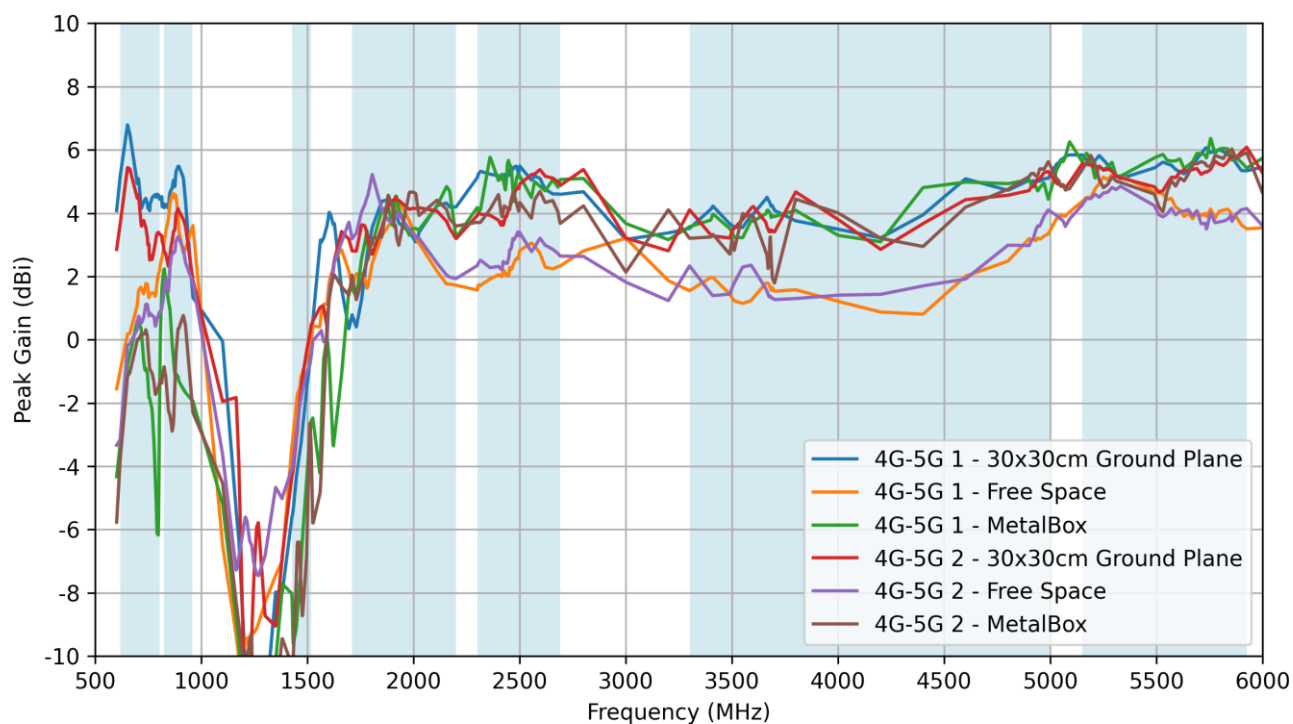
5.5 4G-5G - Efficiency



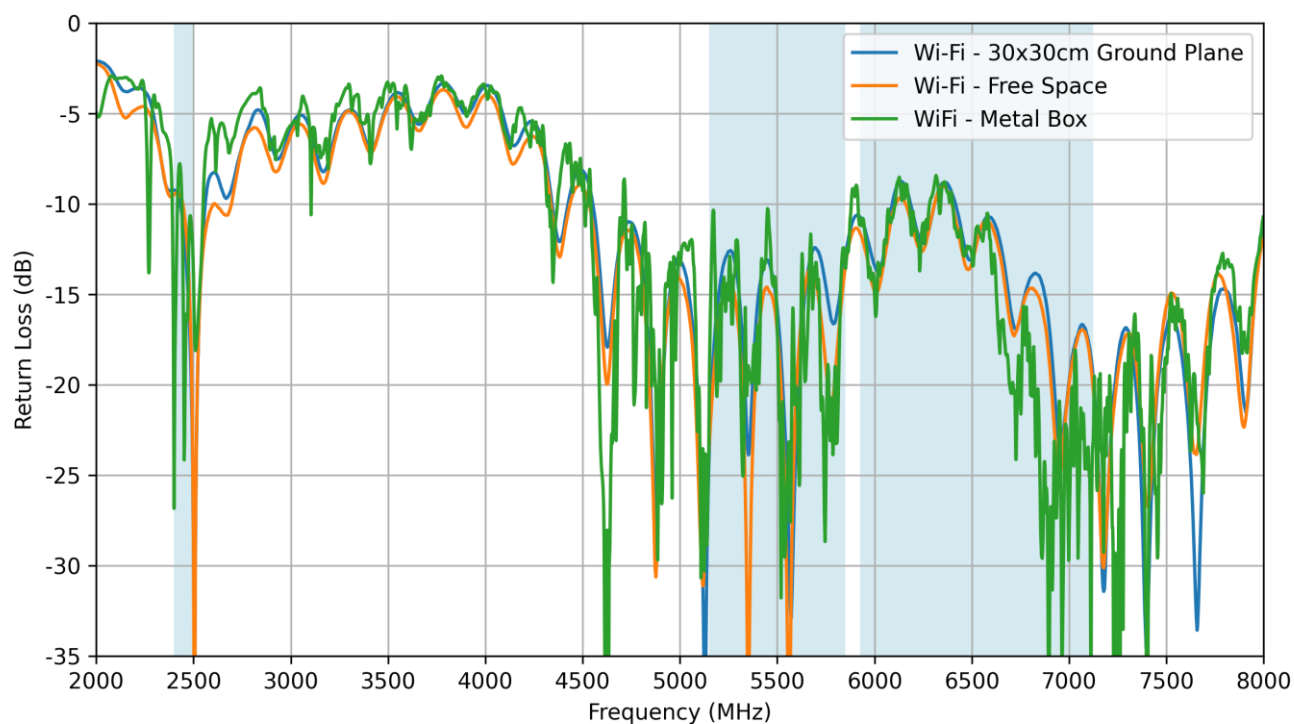
5.6 4G-5G - Average Gain



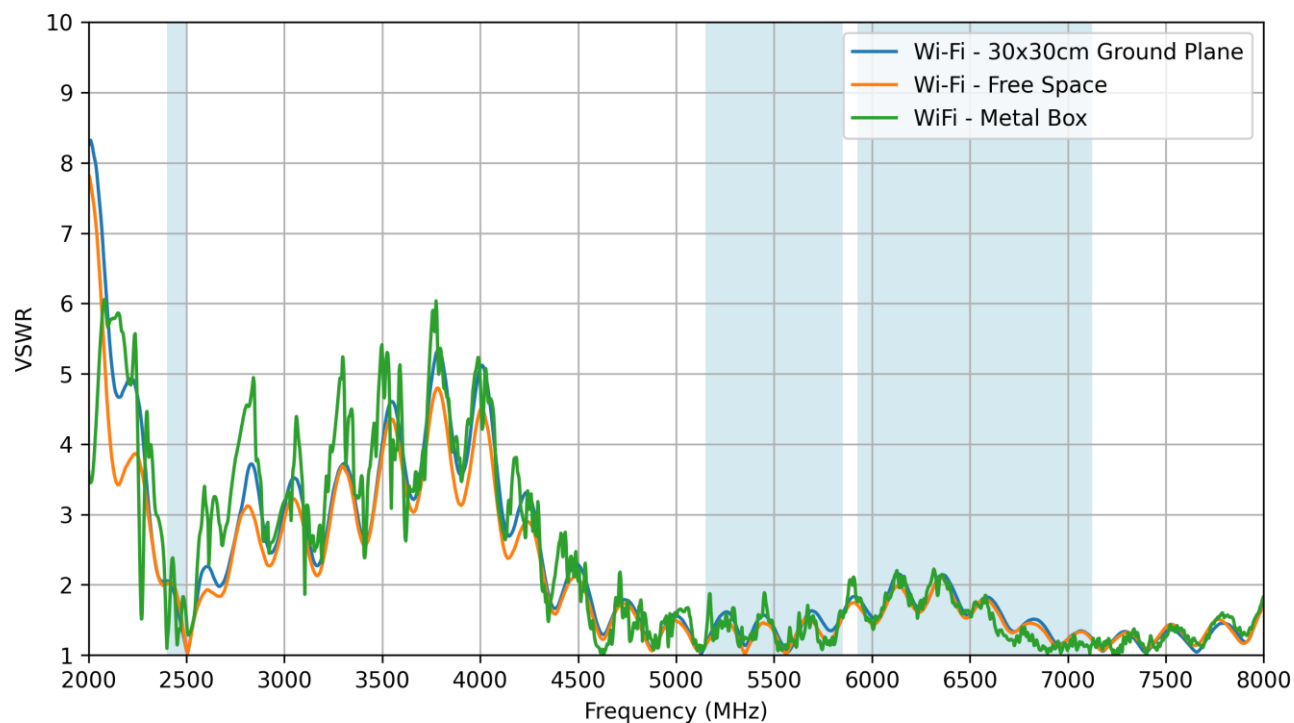
5.7 4G-5G - Peak Gain



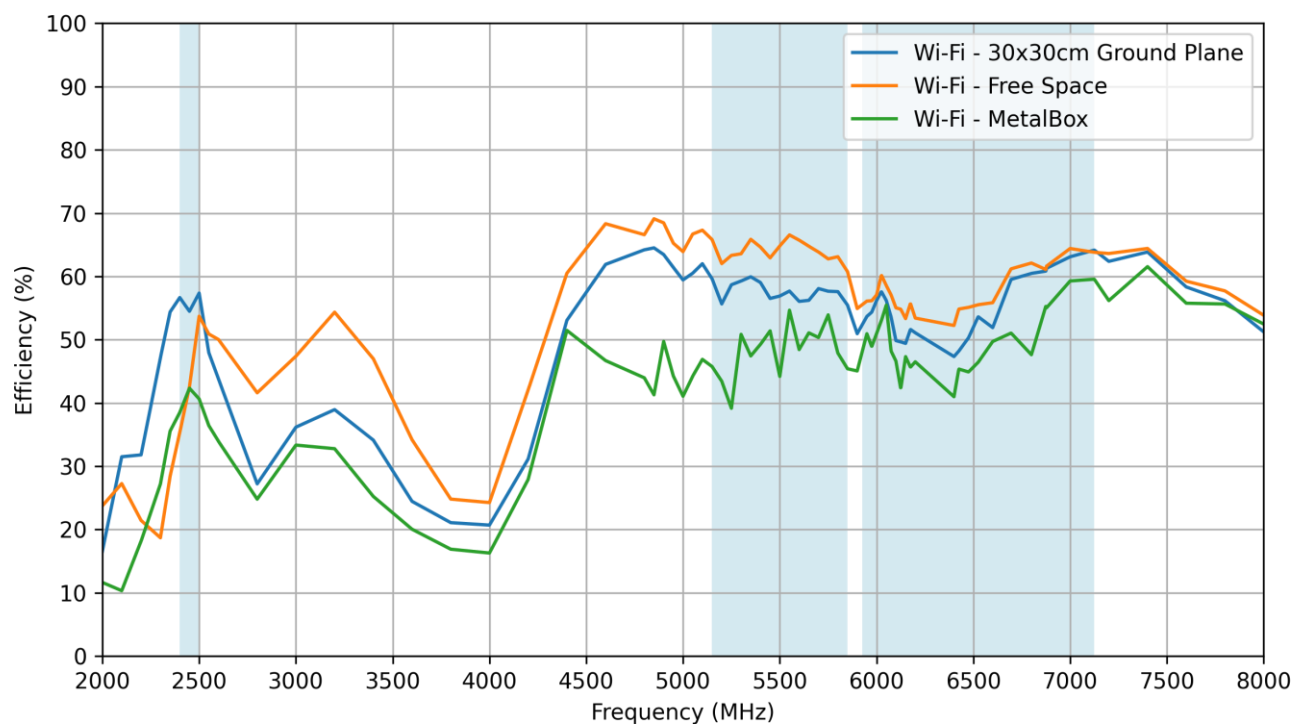
5.8 Wi-Fi - Return Loss



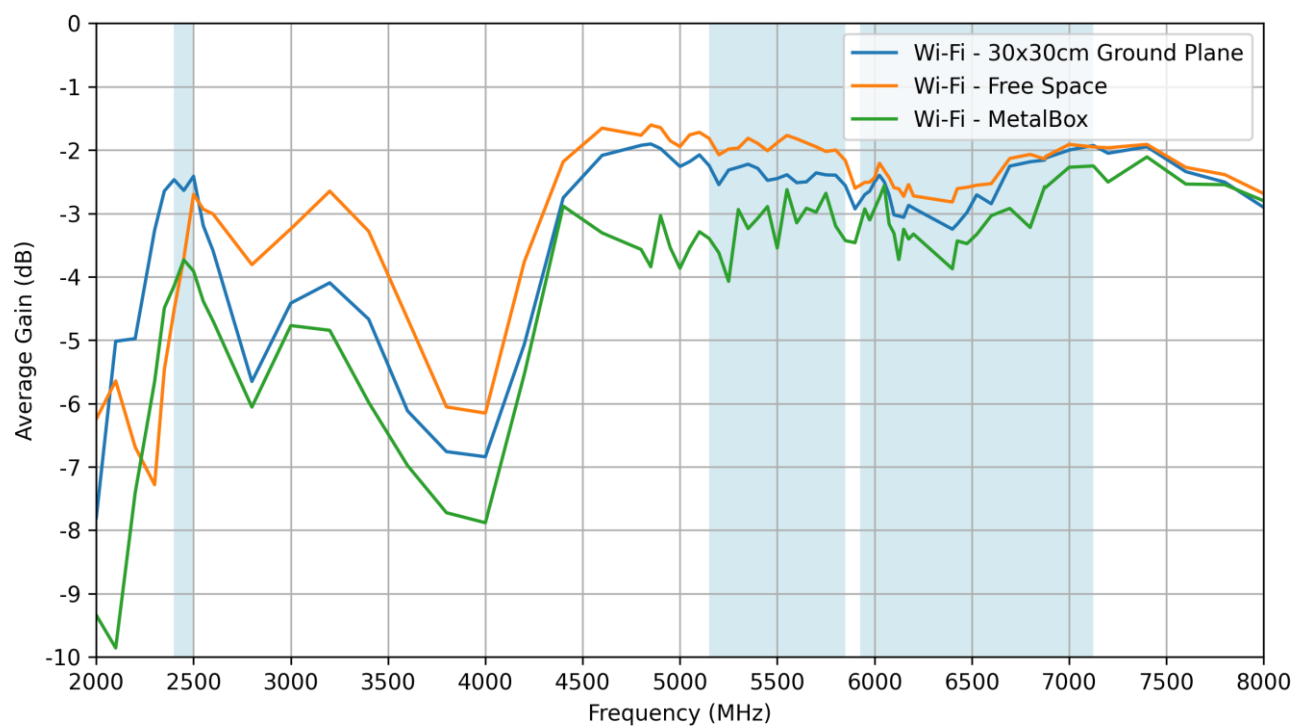
5.9 Wi-Fi - VSWR



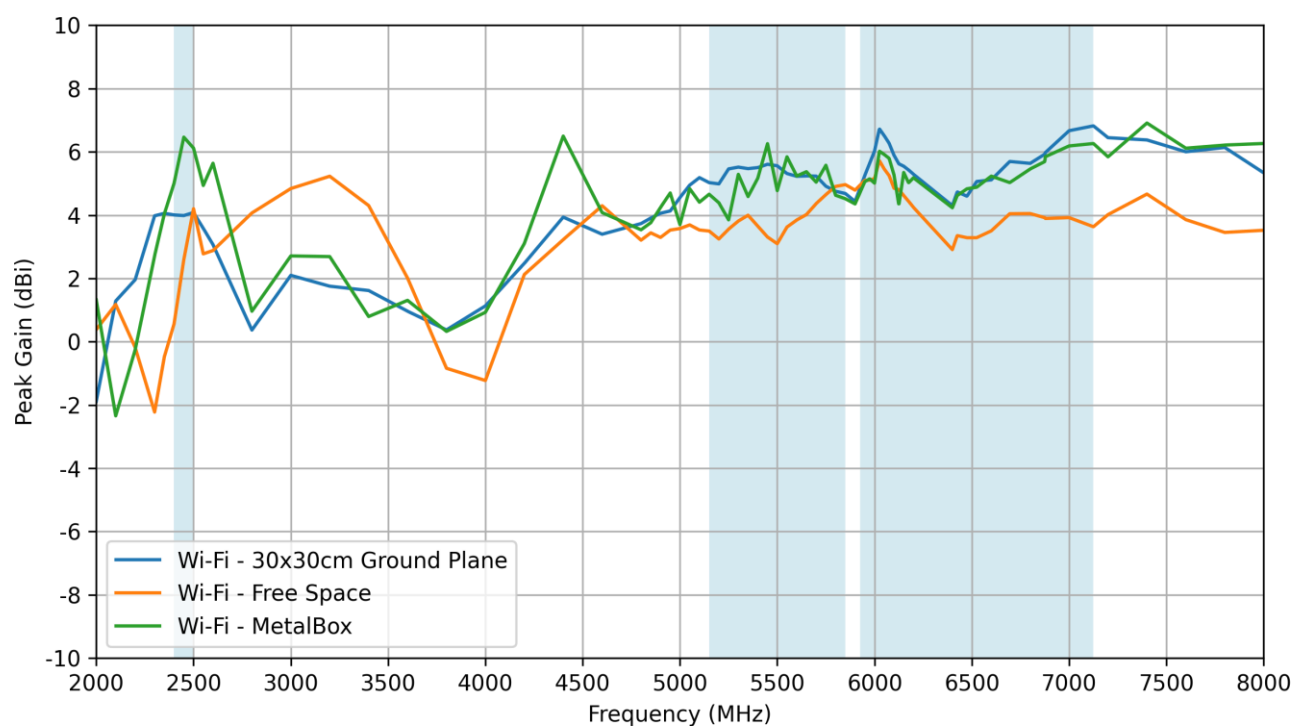
5.10 Wi-Fi - Efficiency



5.11 Wi-Fi - Average Gain

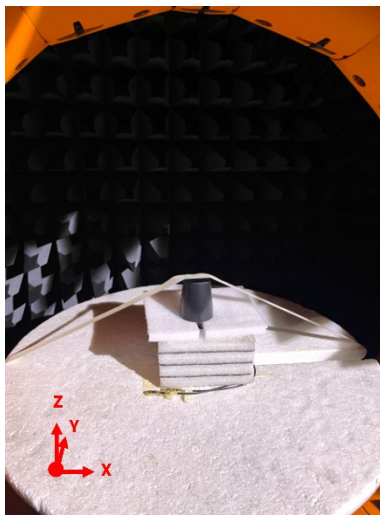
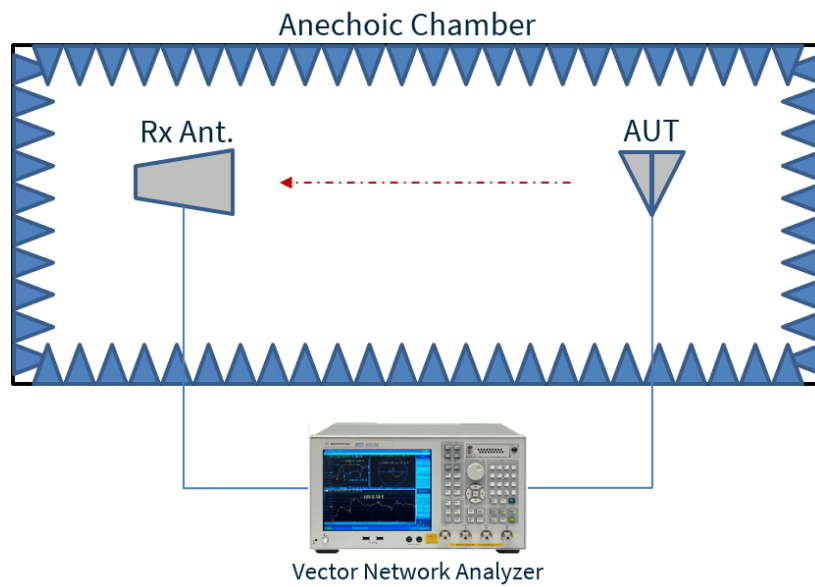


5.12 Wi-Fi - Peak Gain

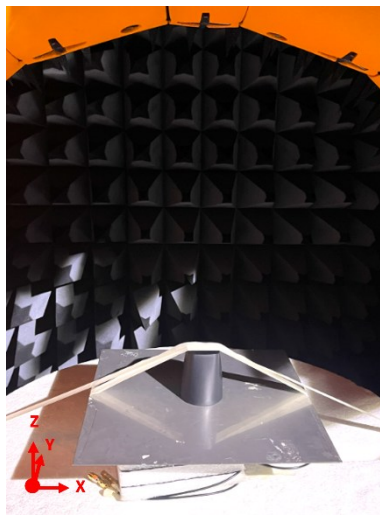


6. Radiation Patterns

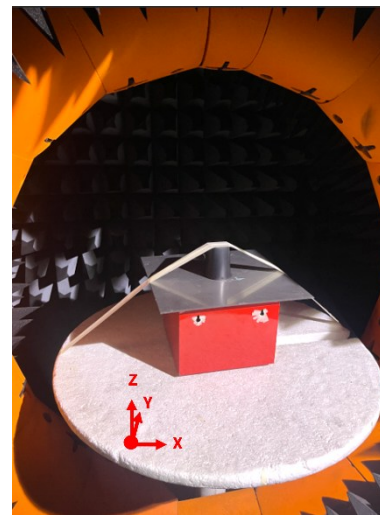
6.1 Test Setup



Free Space

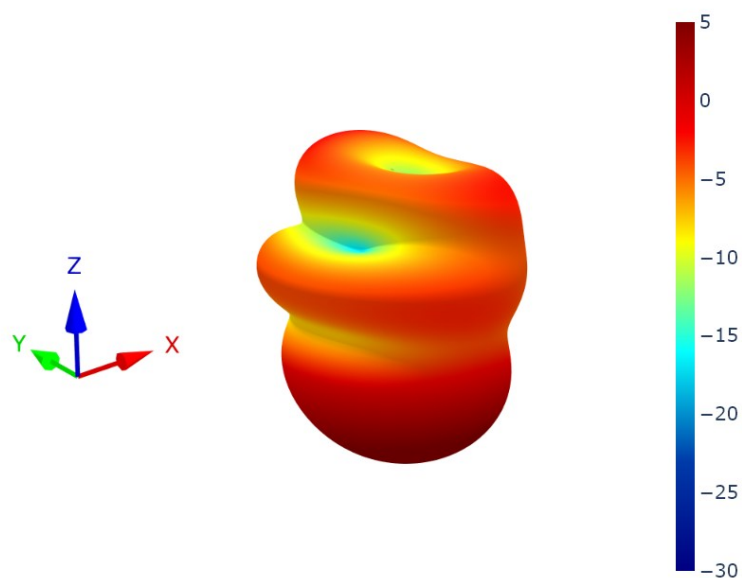


30x30cm Metal Ground Plane

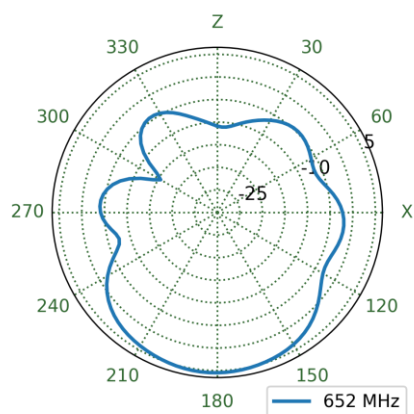


Metal Box

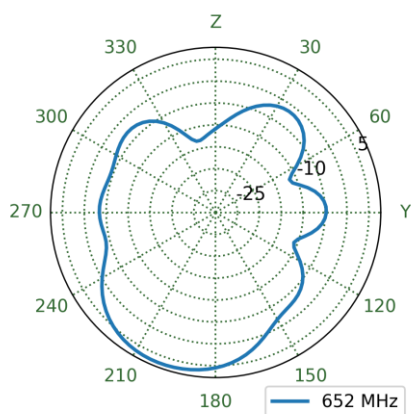
6.2 4G-5G 1 - 30x30cm Ground Plane Patterns at 652 MHz



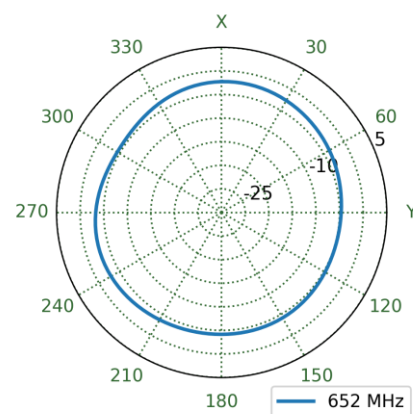
XZ Plane



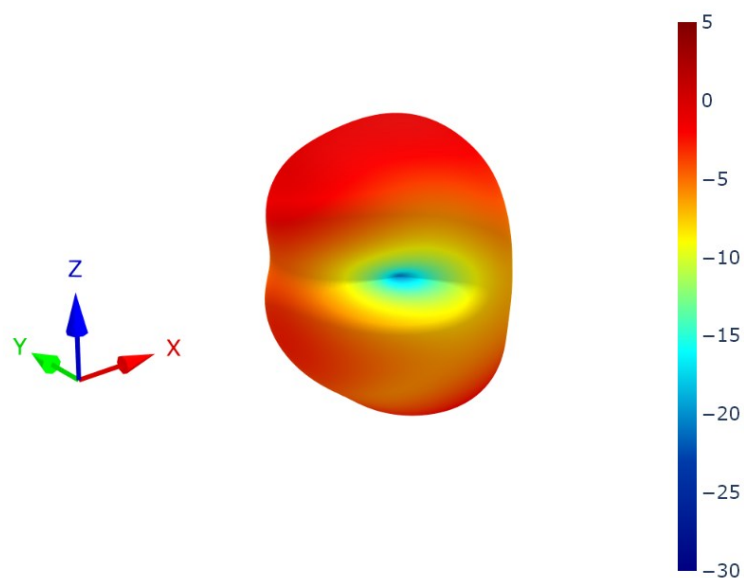
YZ Plane



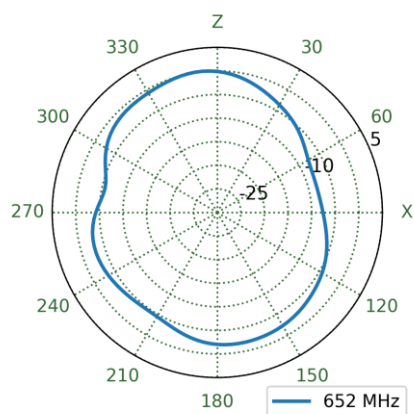
XY Plane



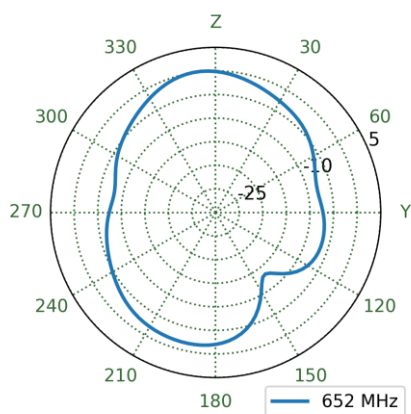
6.3 4G-5G 1 - Free Space Patterns at 652 MHz



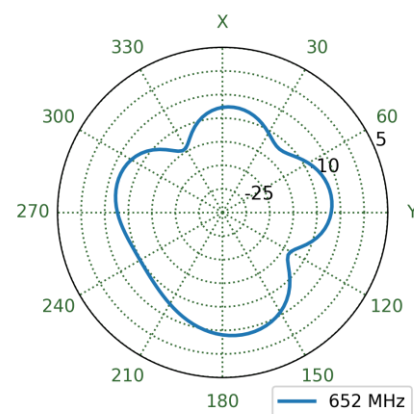
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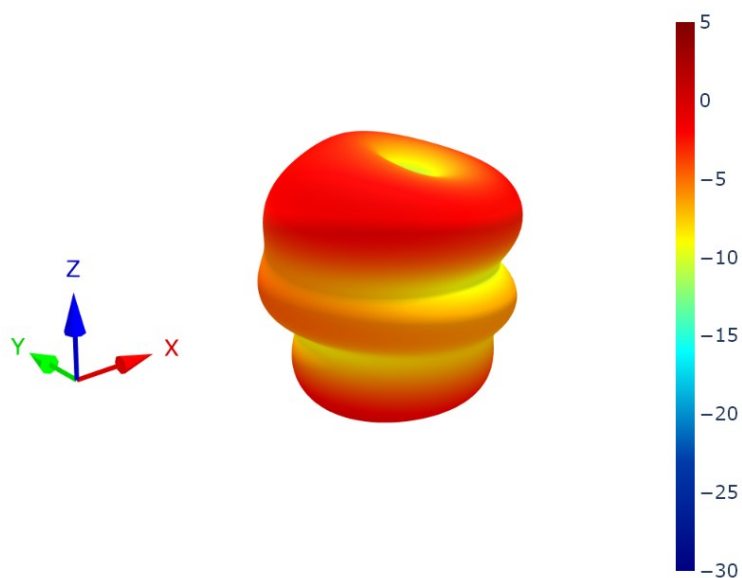
YZ Plane



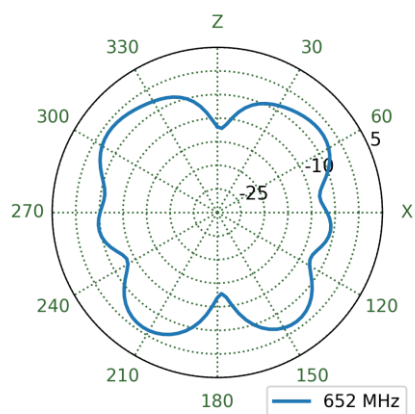
XY Plane



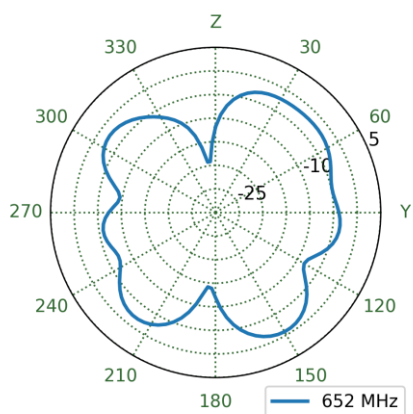
6.4 4G-5G 1 – Metal Box Patterns at 652 MHz



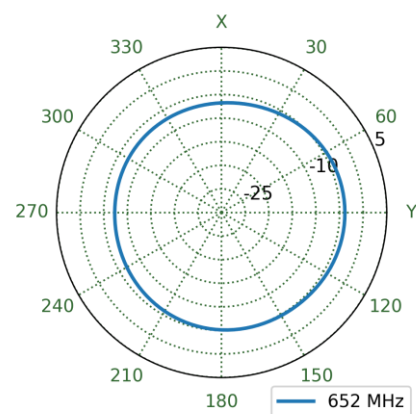
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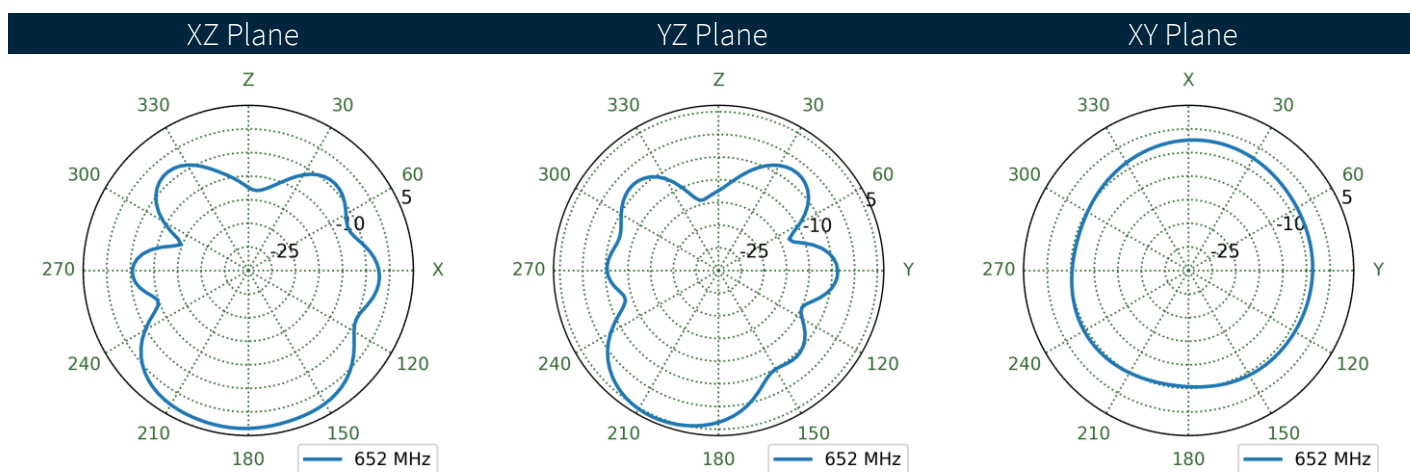
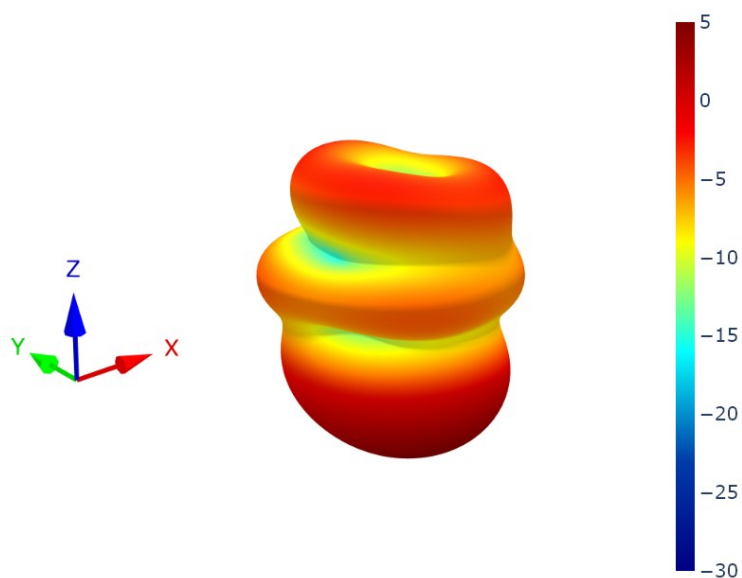
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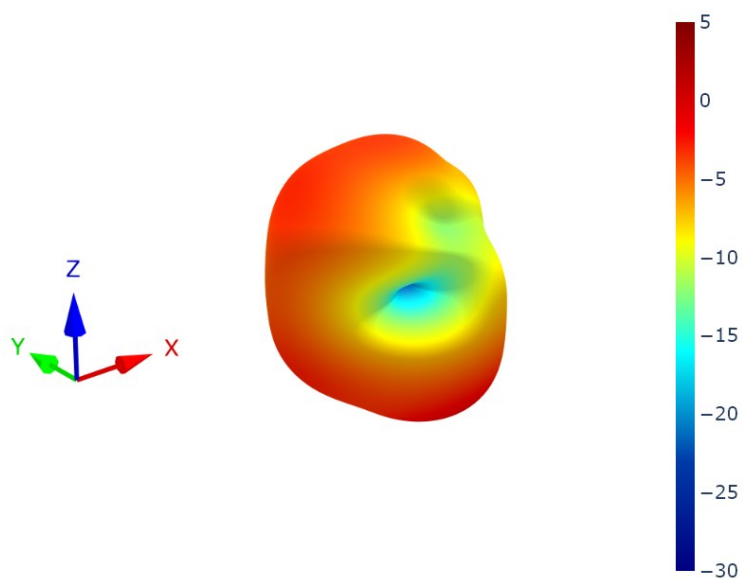
XY Plane



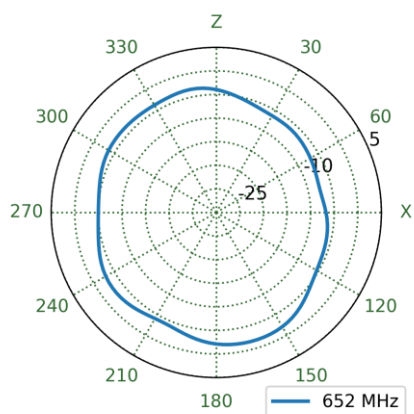
6.5 4G-5G 2 - 30x30cm Ground Plane Patterns at 652 MHz



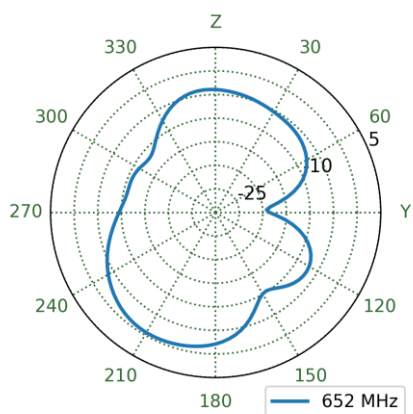
6.6 4G-5G 2 - Free Space Patterns at 652 MHz



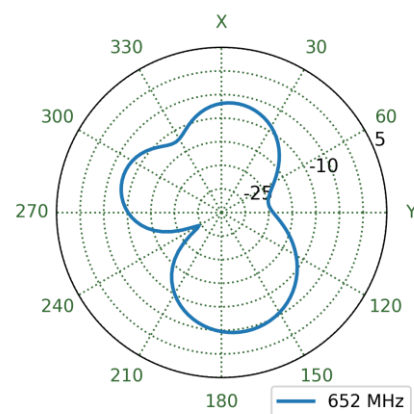
XZ Plane



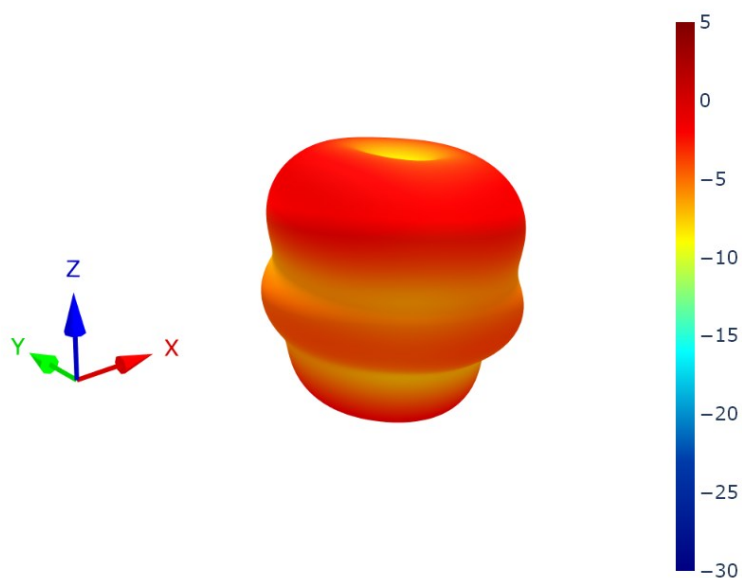
YZ Plane



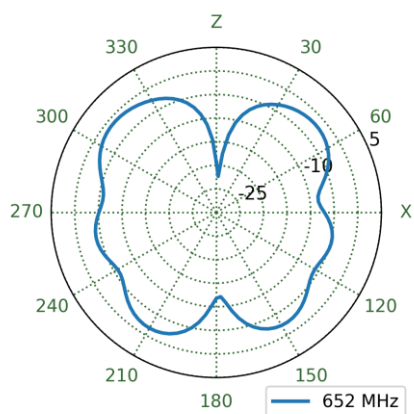
XY Plane



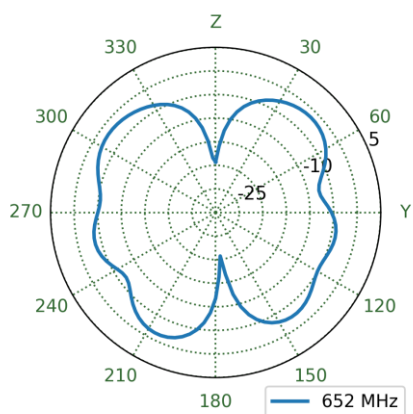
6.7 4G-5G 2 – Metal Box Patterns at 652 MHz



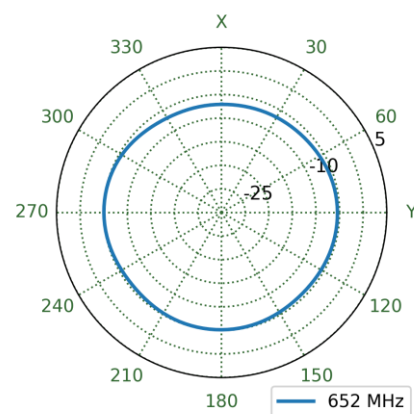
XZ Plane



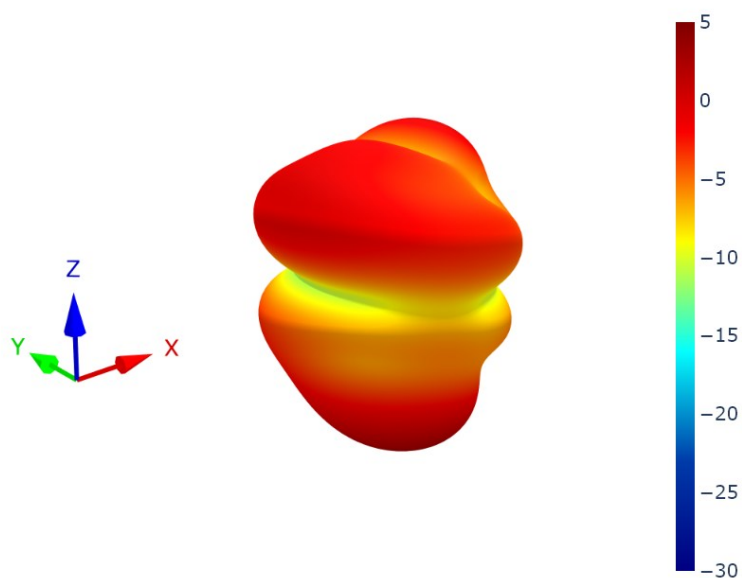
YZ Plane



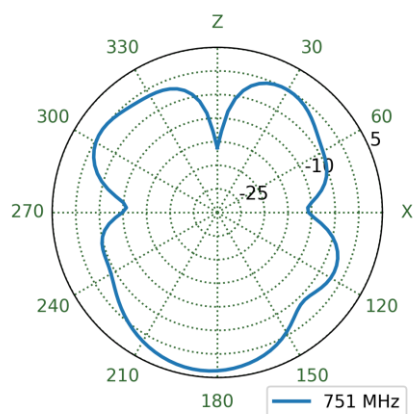
XY Plane



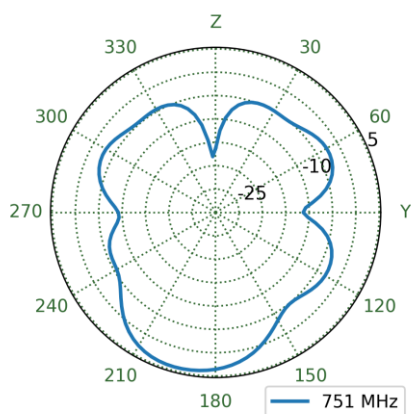
6.8 4G-5G 1 - 30x30cm Ground Plane Patterns at 751 MHz



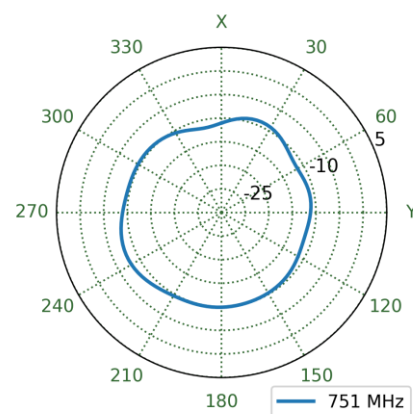
XZ Plane



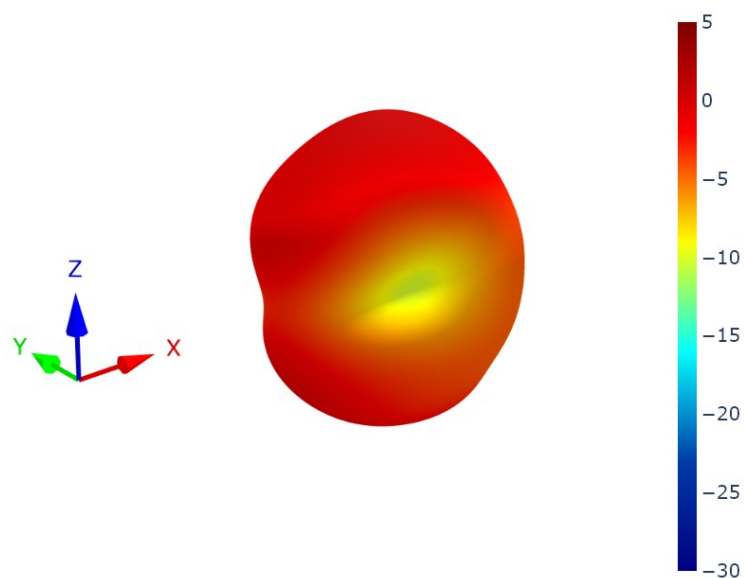
YZ Plane



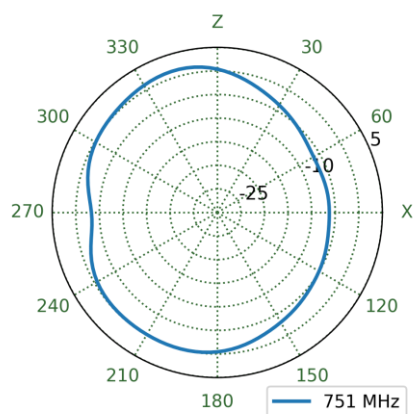
XY Plane



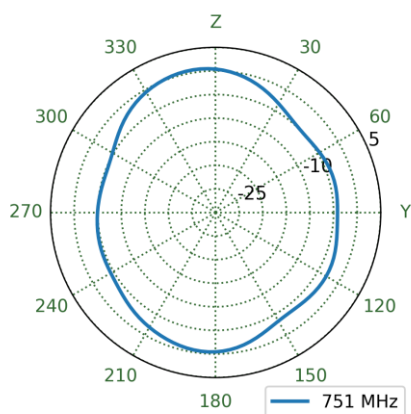
6.9 4G-5G 1 - Free Space Patterns at 751 MHz



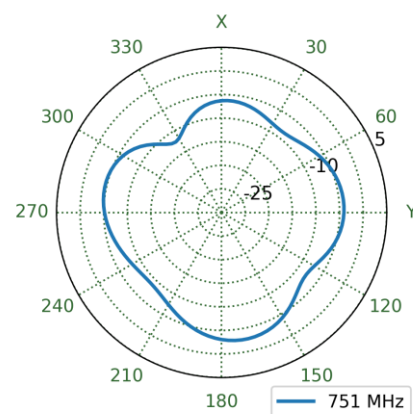
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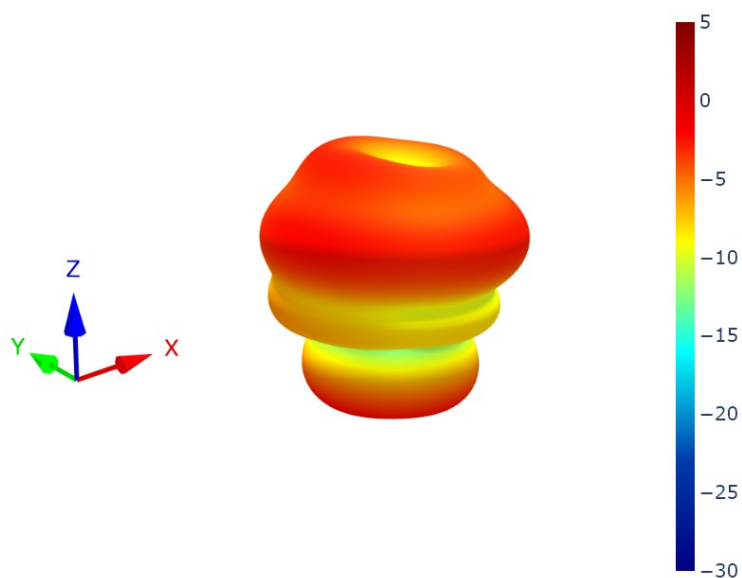
YZ Plane



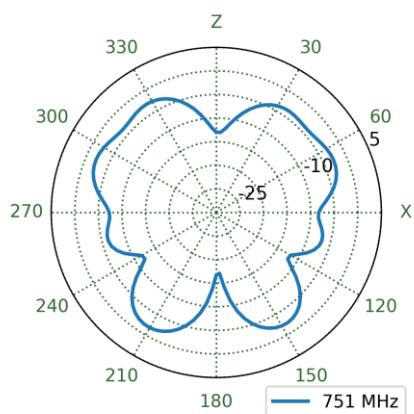
XY Plane



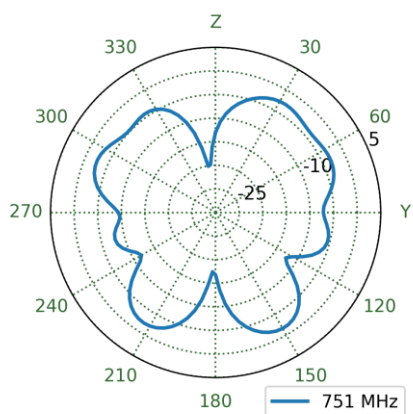
6.10 4G-5G 1 - Metal Box Patterns at 751 MHz



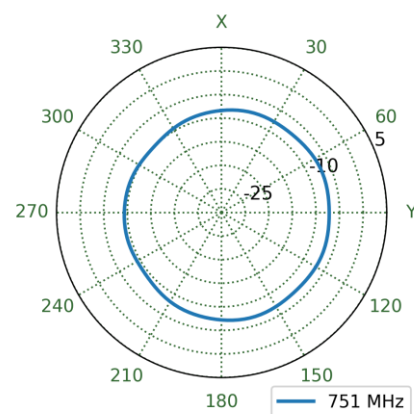
XZ Plane



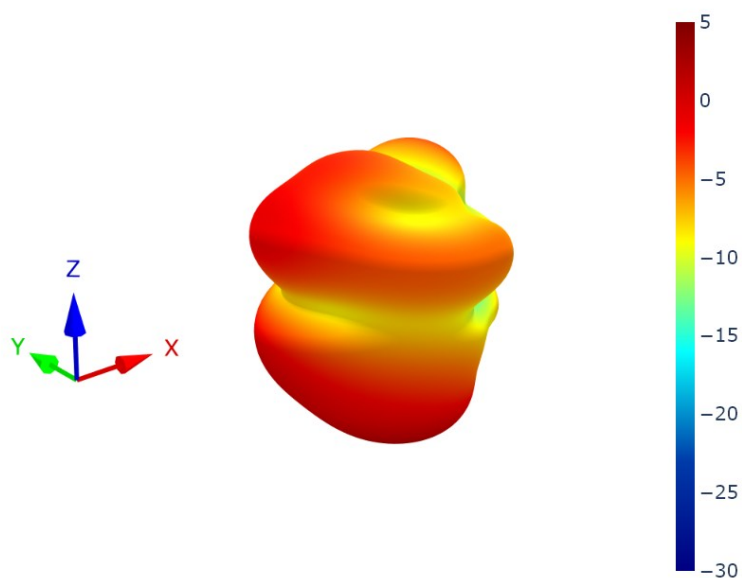
YZ Plane



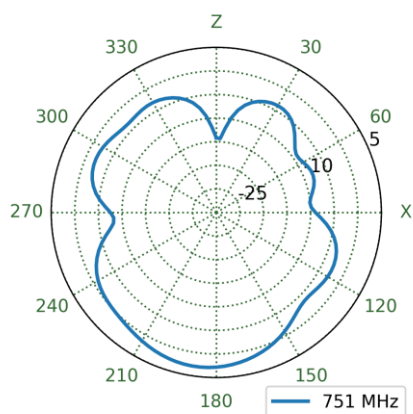
XY Plane



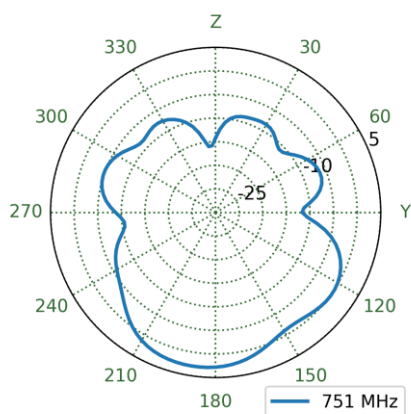
6.11 4G-5G 2 - 30x30cm Ground Plane Patterns at 751 MHz



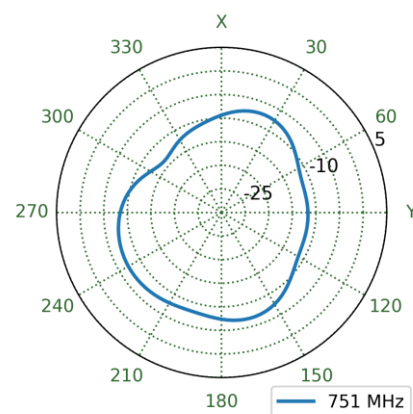
XZ Plane



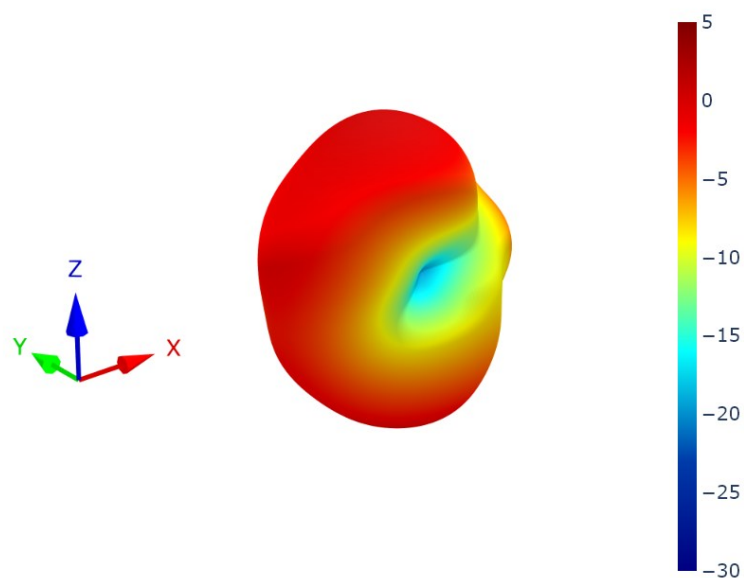
YZ Plane



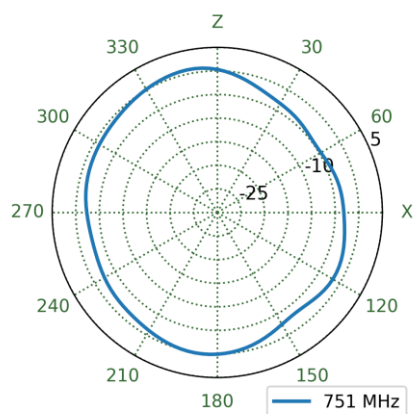
XY Plane



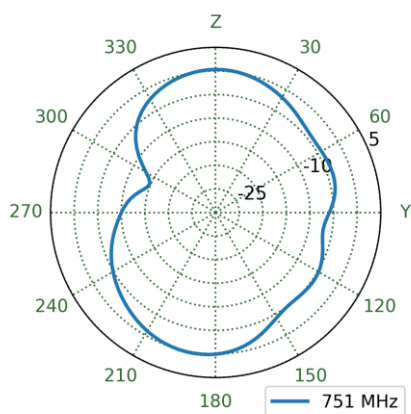
6.12 4G-5G 2 - Free Space Patterns at 751 MHz



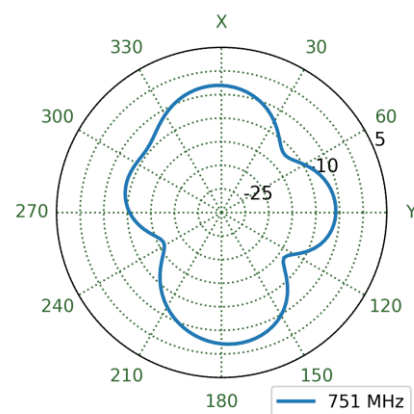
XZ Plane



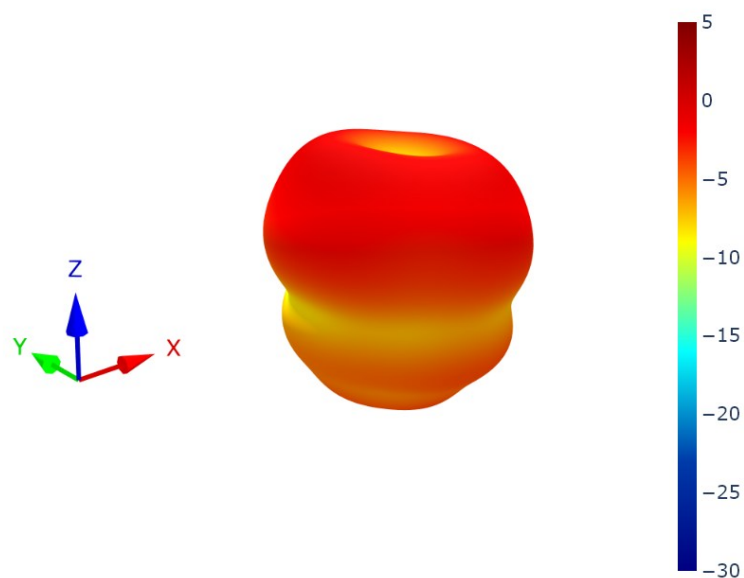
YZ Plane



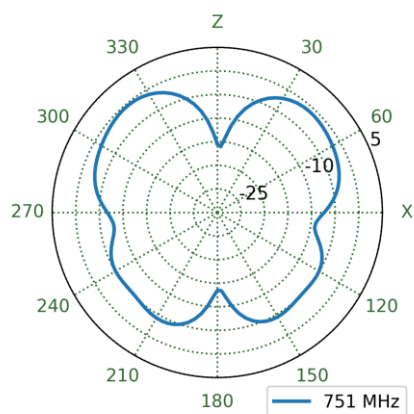
XY Plane



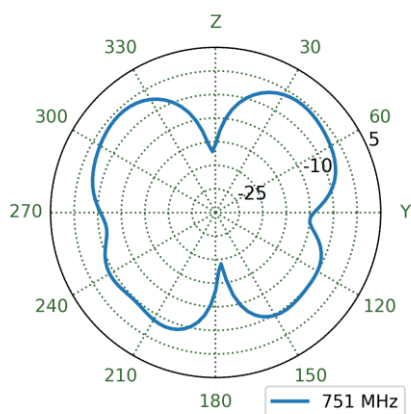
6.13 4G-5G 2 - Metal Box Patterns at 751 MHz



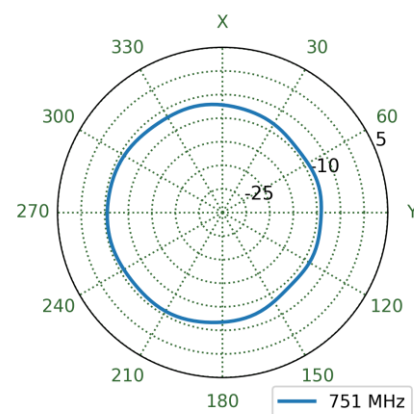
XZ Plane



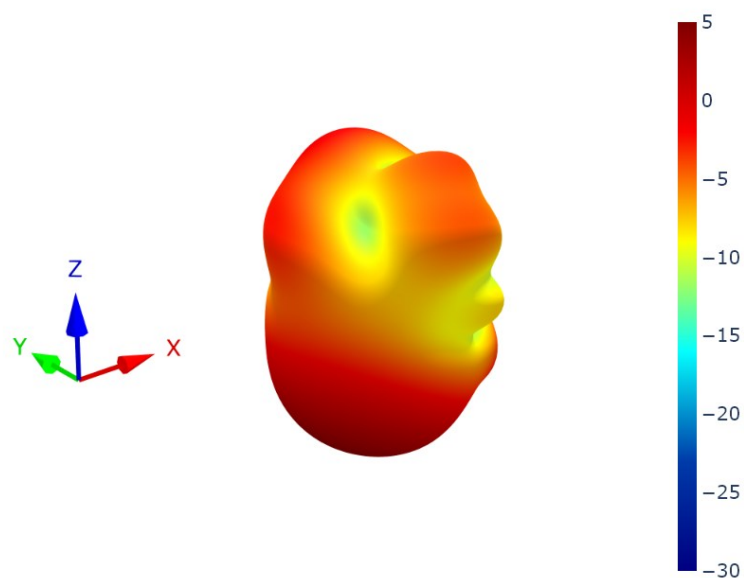
YZ Plane



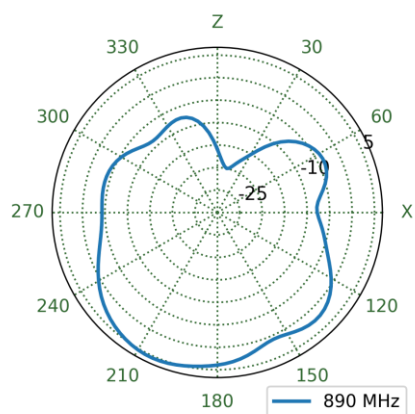
XY Plane



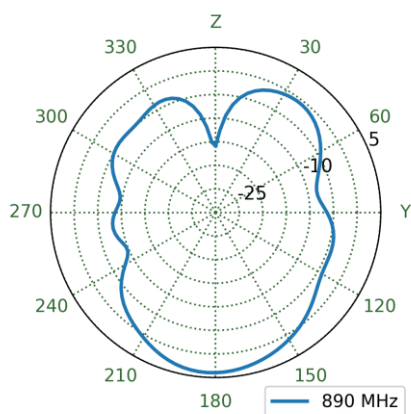
6.14 4G-5G 1 - 30x30cm Ground Plane Patterns at 892 MHz



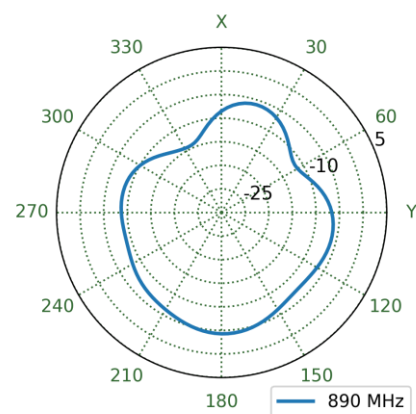
XZ Plane



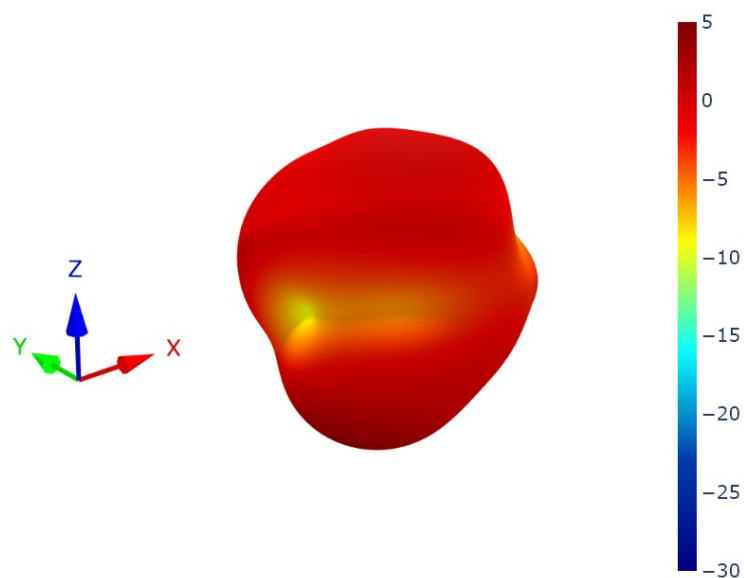
YZ Plane



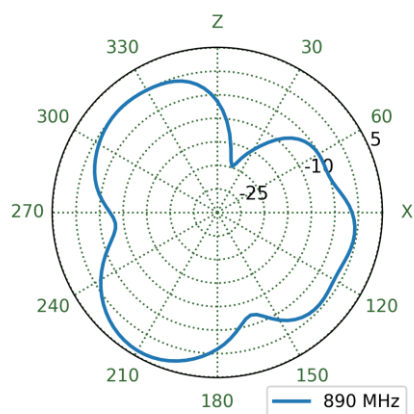
XY Plane



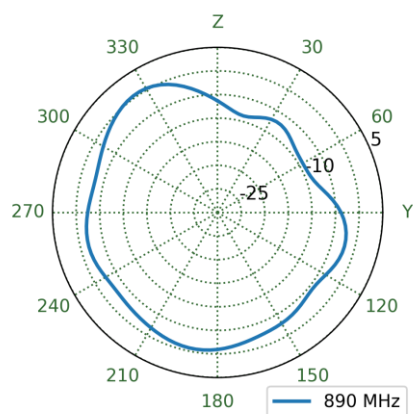
6.15 4G-5G 1 - Free Space Patterns at 892 MHz



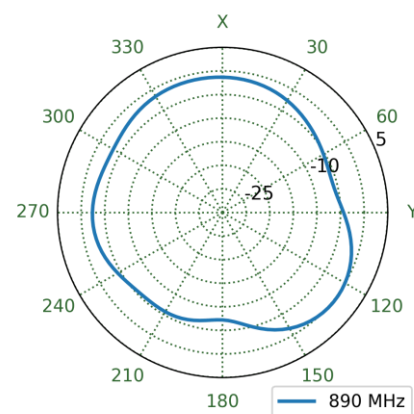
XZ Plane



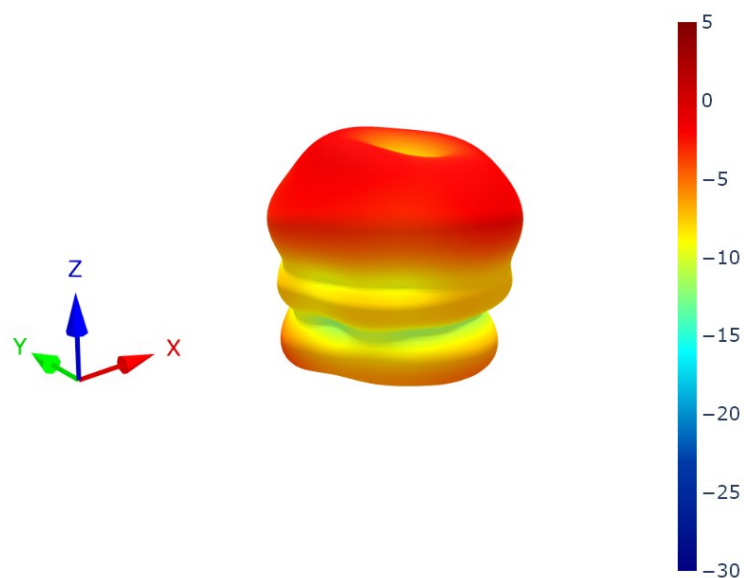
YZ Plane



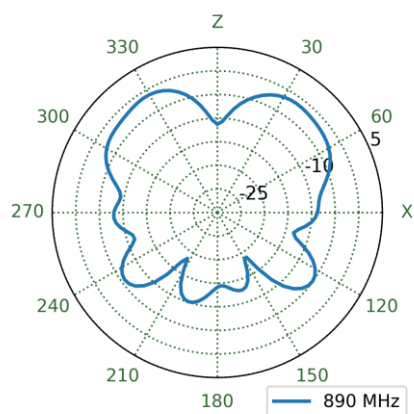
XY Plane



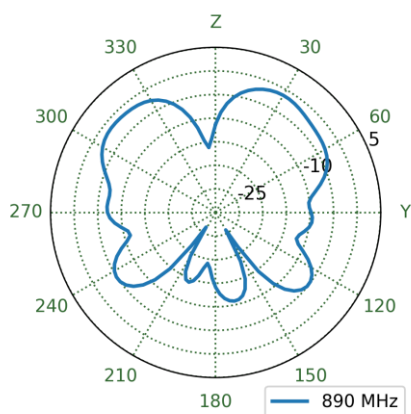
6.16 4G-5G 1 - Metal Box Patterns at 892 MHz



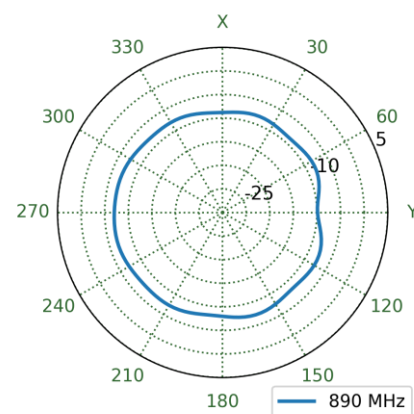
XZ Plane



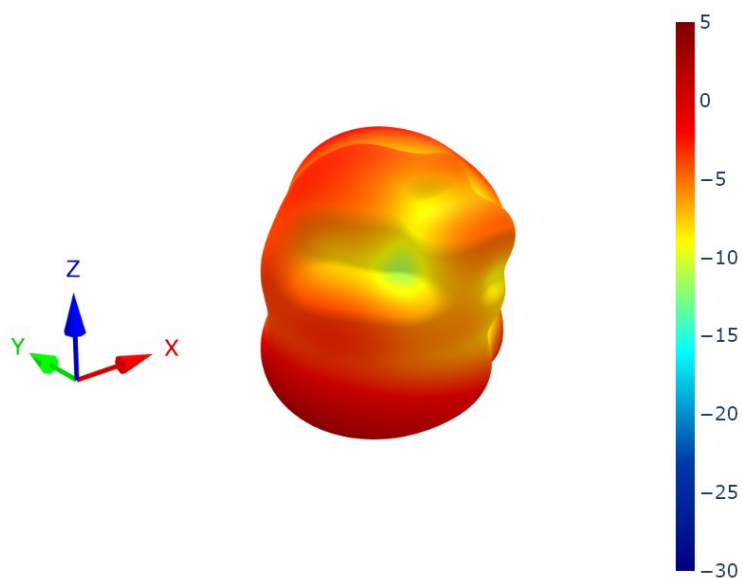
YZ Plane



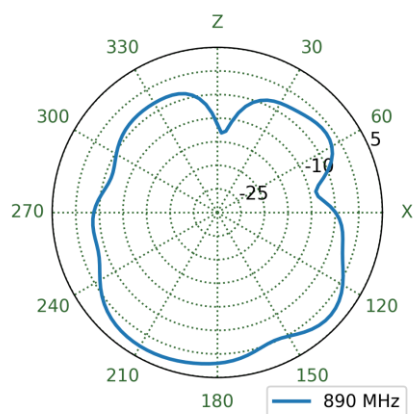
XY Plane



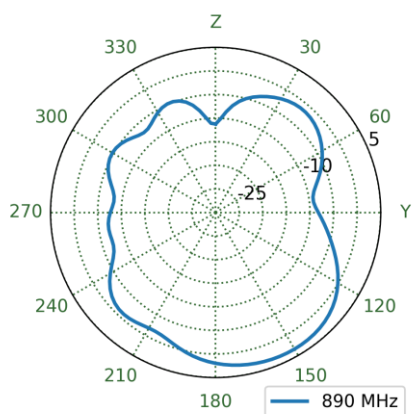
6.17 4G-5G 2 - 30x30cm Ground Plane Patterns at 892 MHz



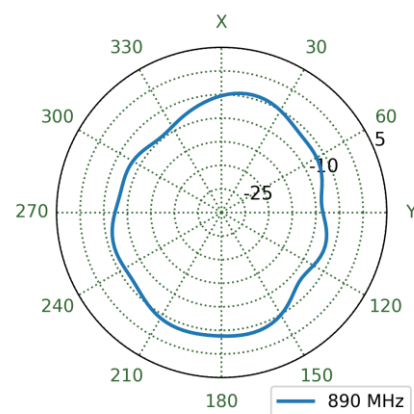
XZ Plane



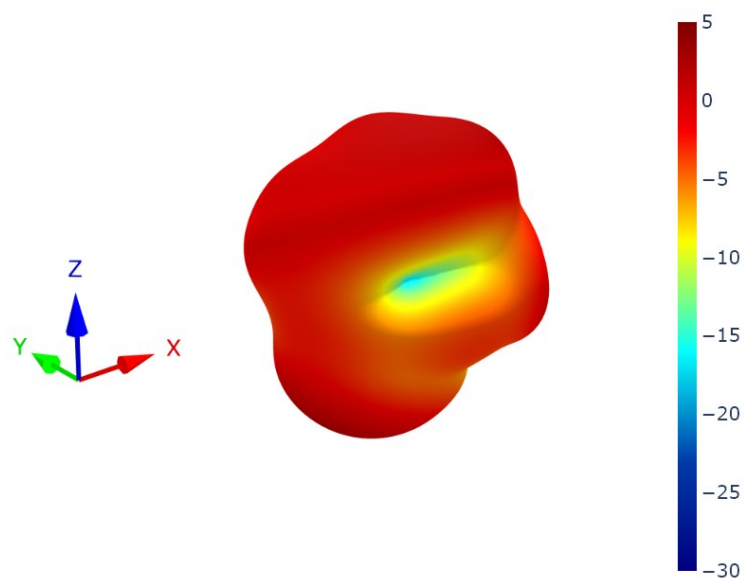
YZ Plane



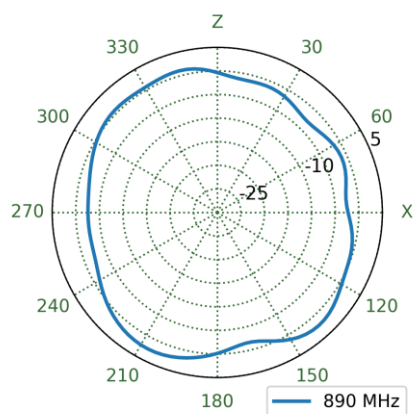
XY Plane



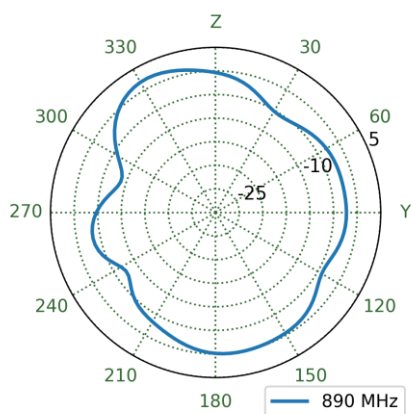
6.18 4G-5G 2 - Free Space Patterns at 892 MHz



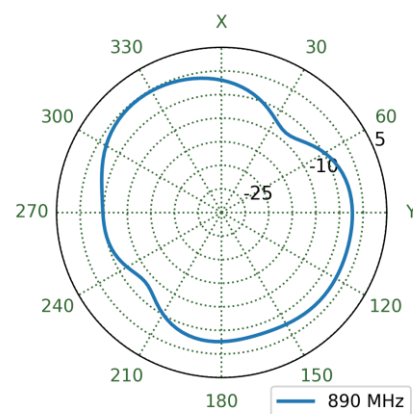
XZ Plane



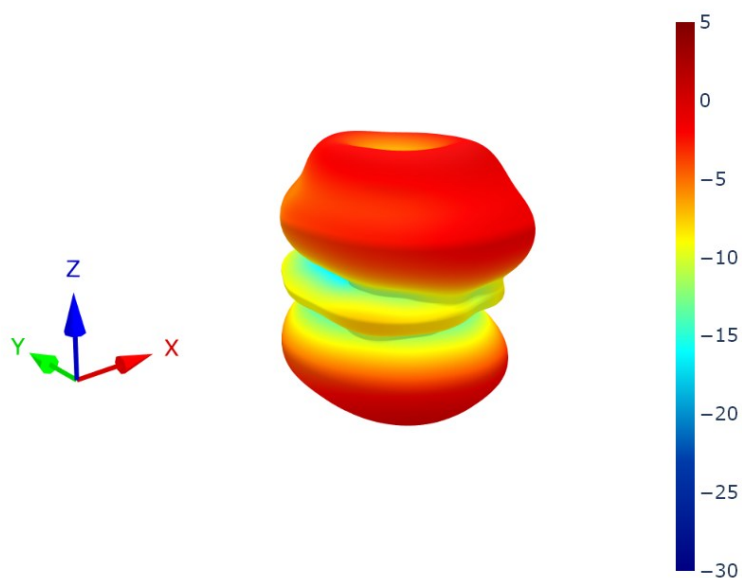
YZ Plane



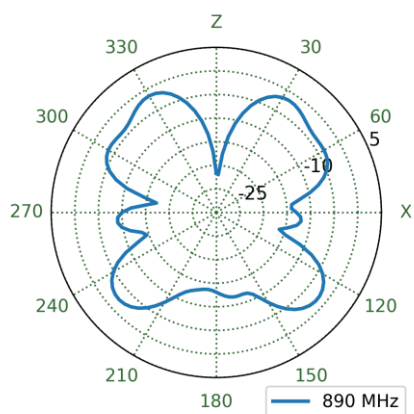
XY Plane



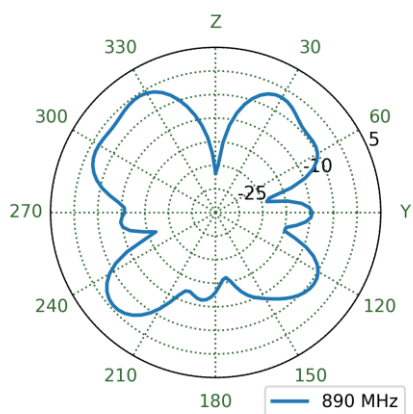
6.19 4G-5G 2 - Metal Box Patterns at 892 MHz



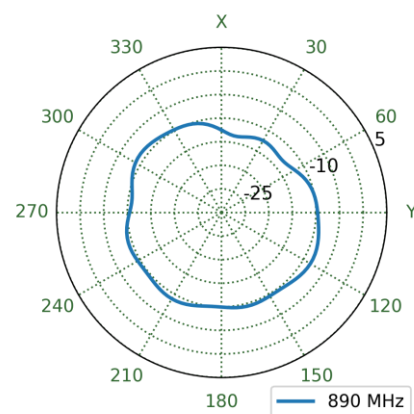
XZ Plane



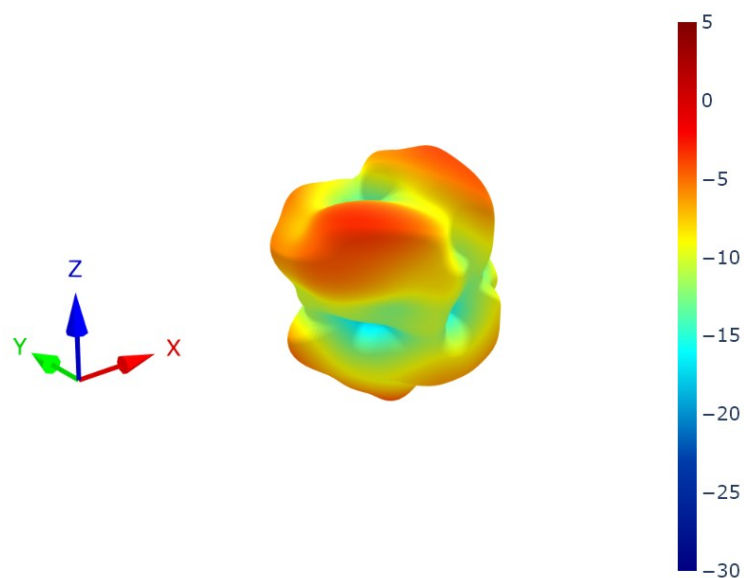
YZ Plane



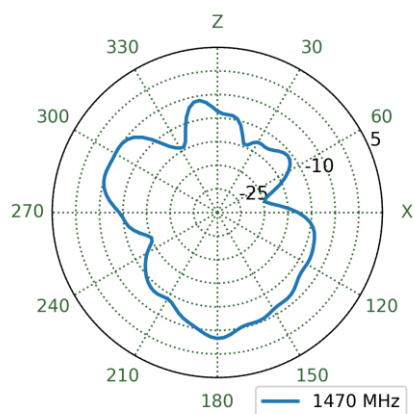
XY Plane



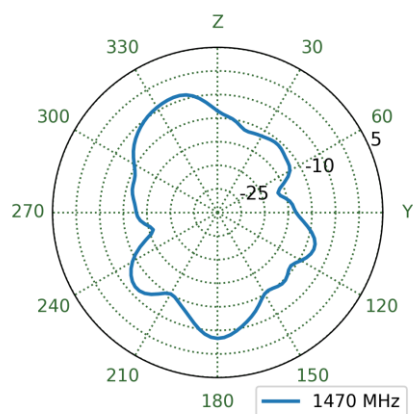
6.20 4G-5G 1 - 30x30cm Ground Plane Patterns at 1470 MHz



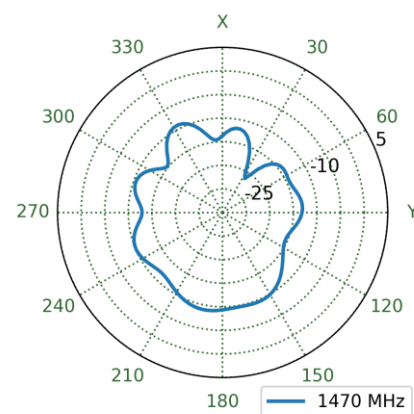
XZ Plane



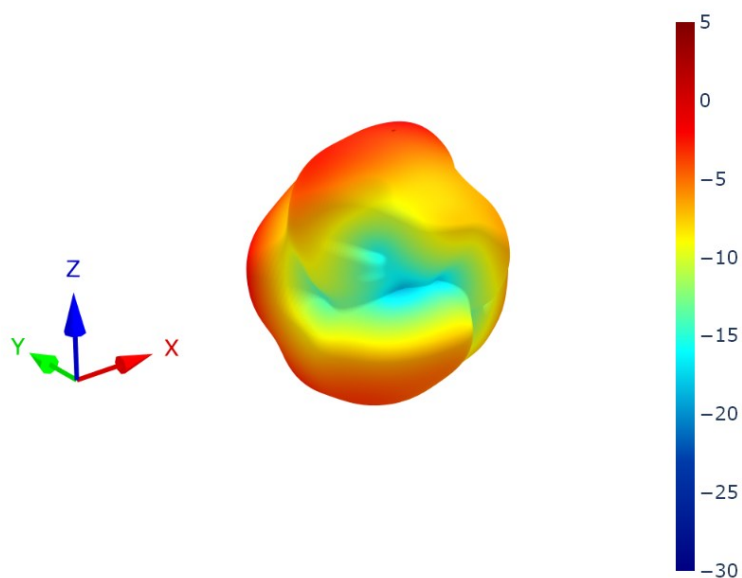
YZ Plane



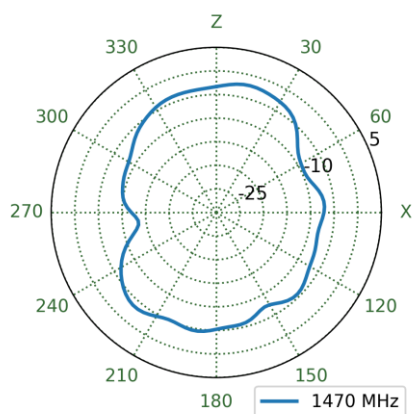
XY Plane



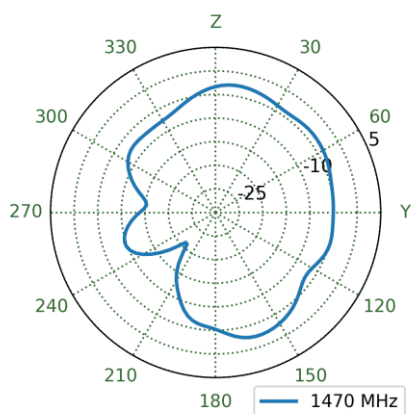
6.21 4G-5G 1 - Free Space Patterns at 1470 MHz



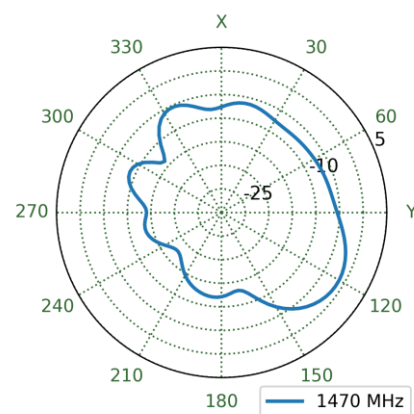
XZ Plane



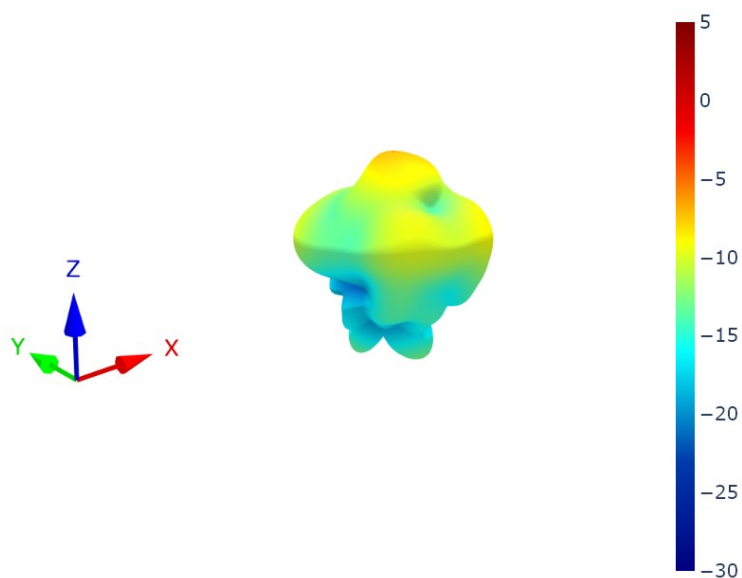
YZ Plane



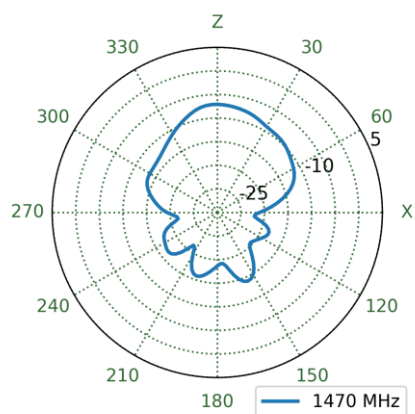
XY Plane



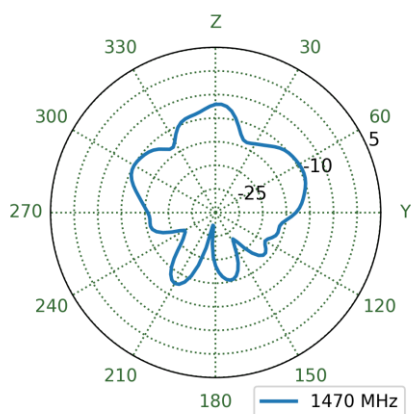
6.22 4G-5G 1 - Metal Box Patterns at 1470 MHz



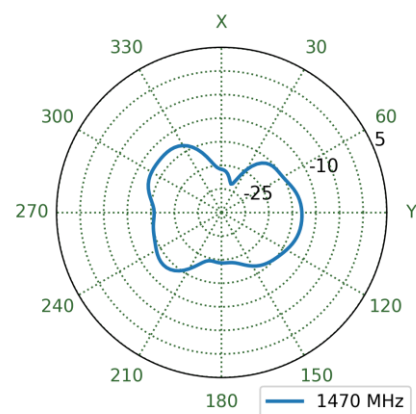
XZ Plane



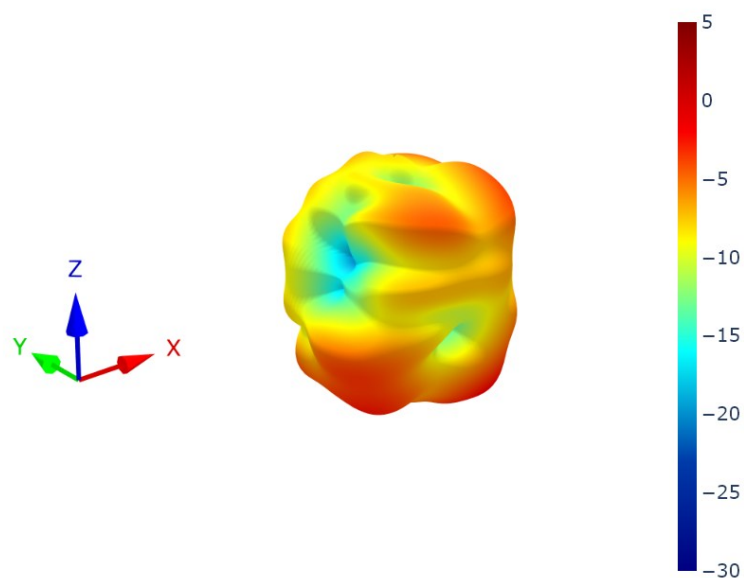
YZ Plane



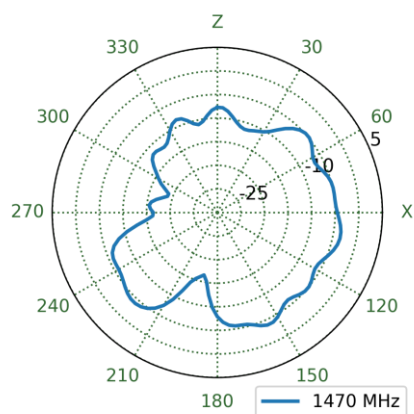
XY Plane



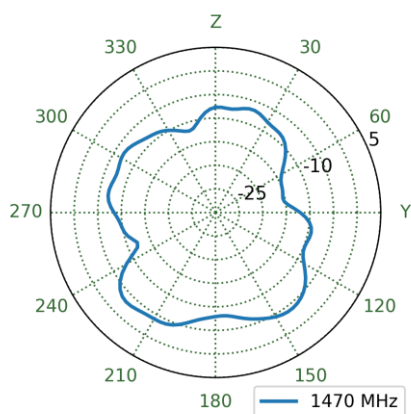
6.23 4G-5G 2 - 30x30cm Ground Plane Patterns at 1470 MHz



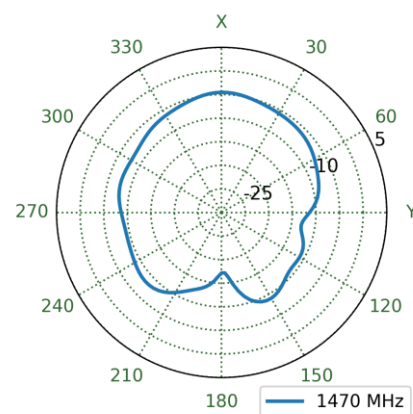
XZ Plane



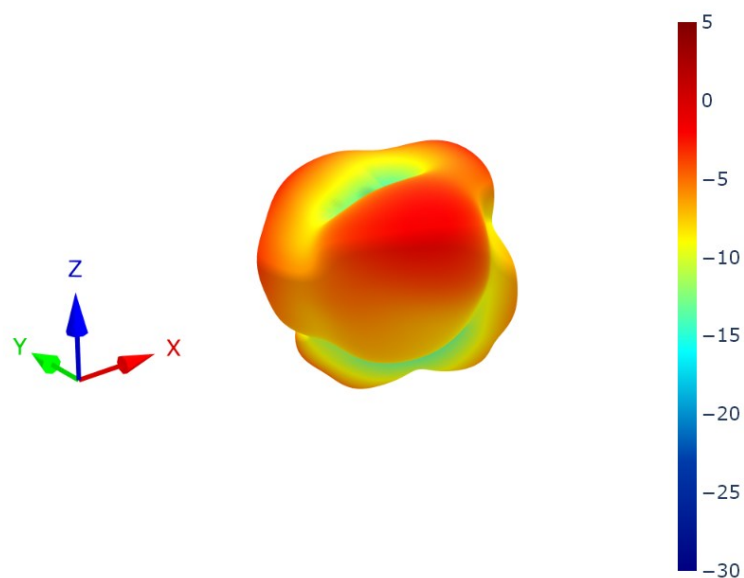
YZ Plane



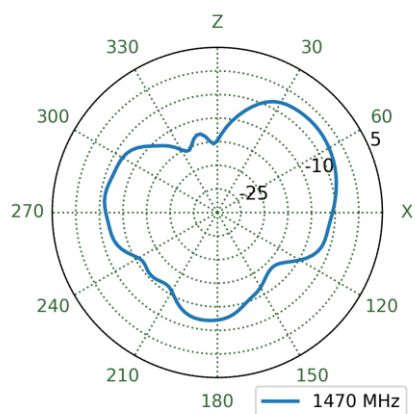
XY Plane



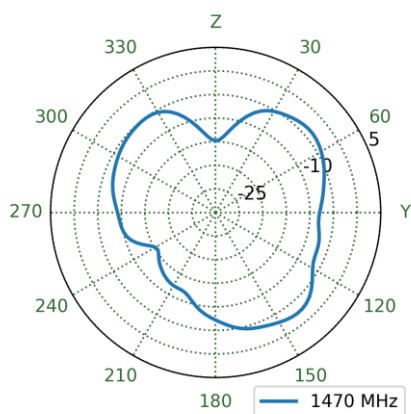
6.24 4G-5G 2 - Free Space Patterns at 1470 MHz



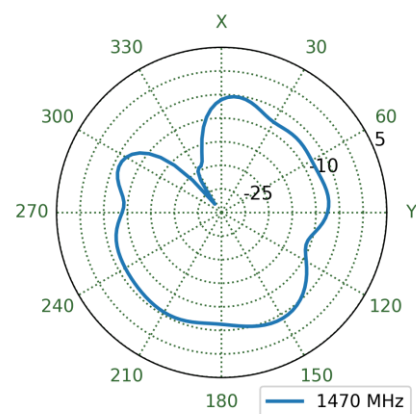
XZ Plane



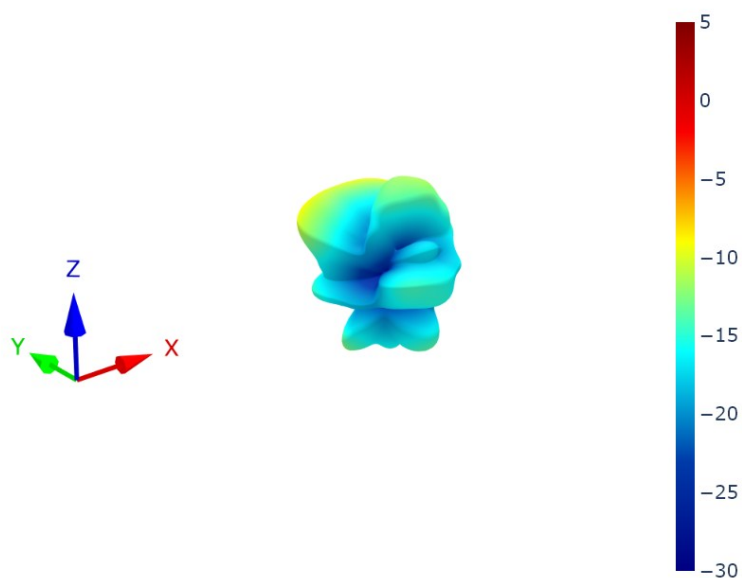
YZ Plane



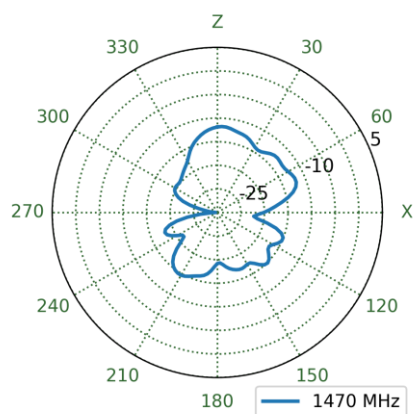
XY Plane



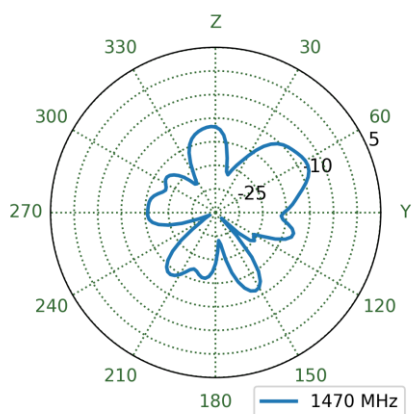
6.25 4G-5G 2 - Metal Box Patterns at 1470 MHz



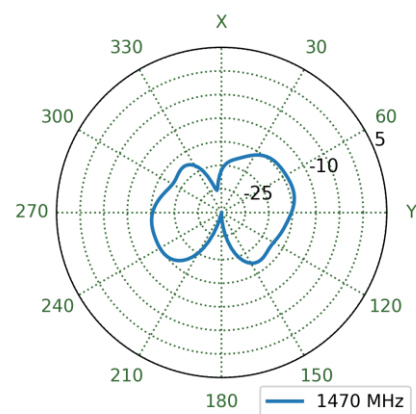
XZ Plane



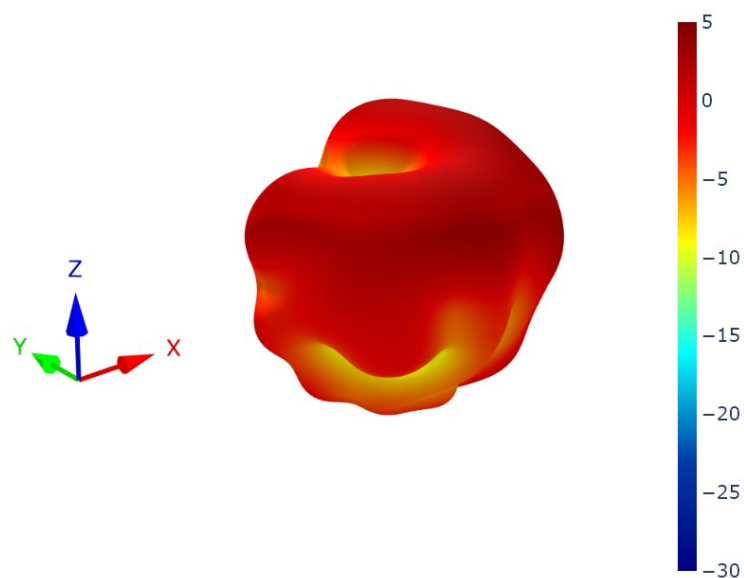
YZ Plane



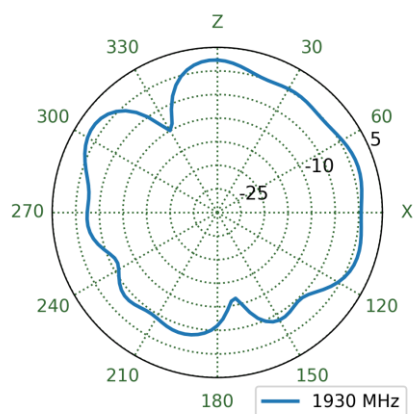
XY Plane



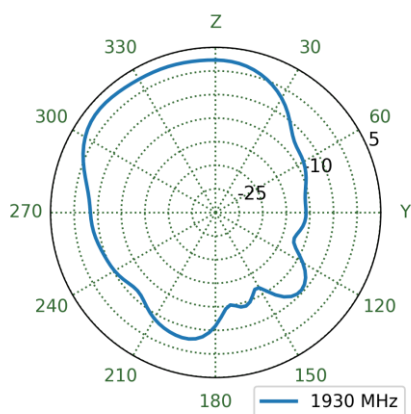
6.26 4G-5G 1 - 30x30cm Ground Plane Patterns at 1930 MHz



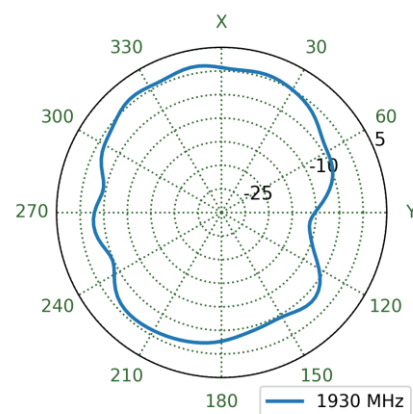
XZ Plane



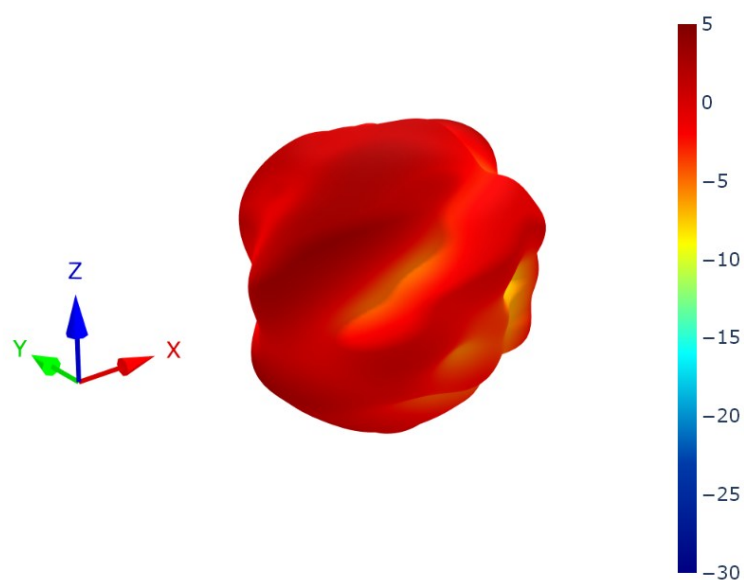
YZ Plane



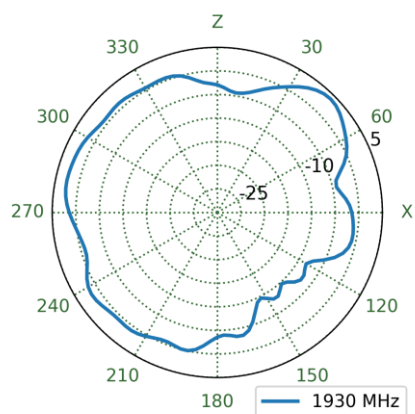
XY Plane



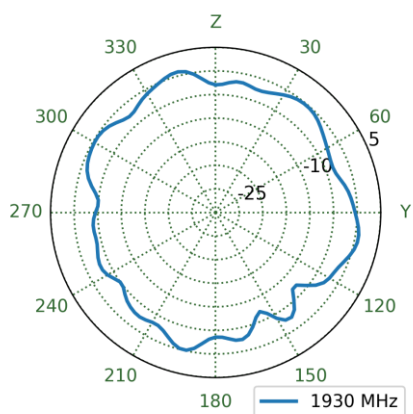
6.27 4G-5G 1 - Free Space Patterns at 1930 MHz



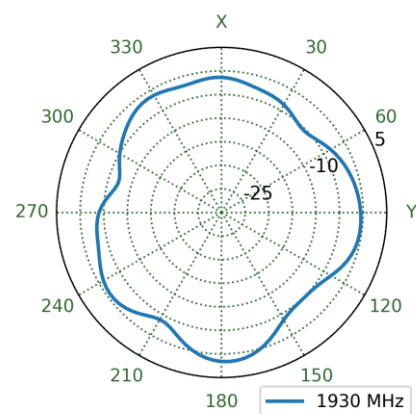
XZ Plane



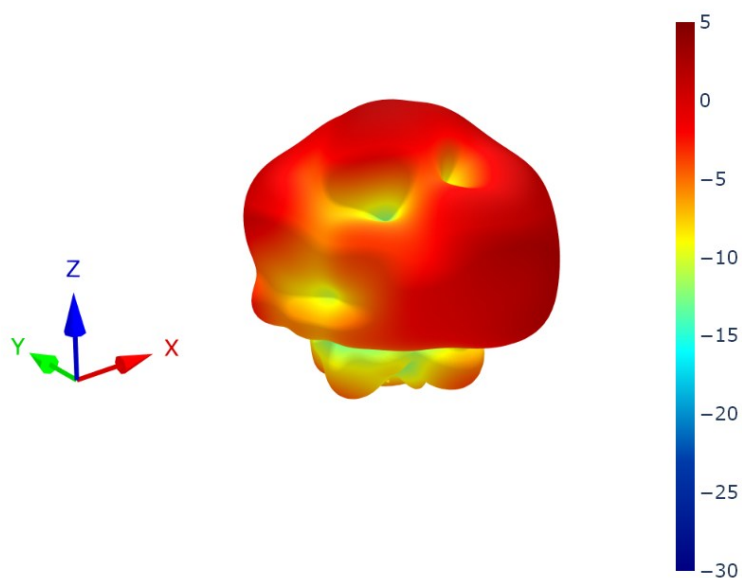
YZ Plane



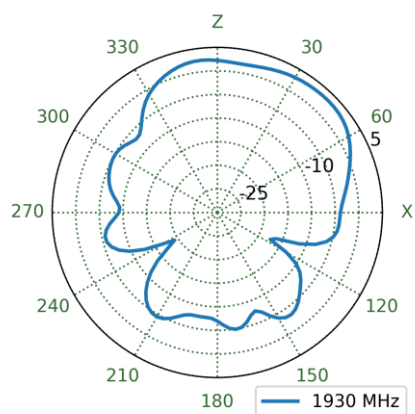
XY Plane



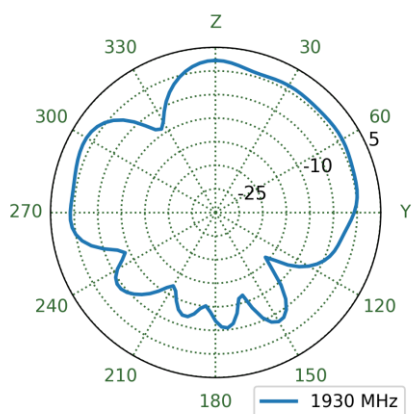
6.28 4G-5G 1 - Metal Box Patterns at 1930 MHz



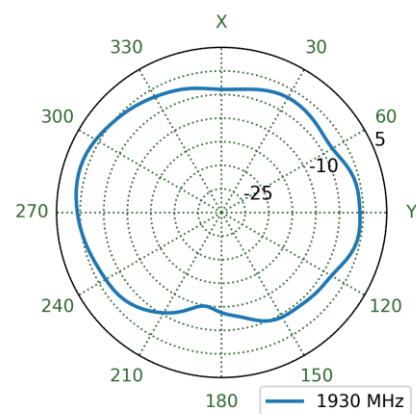
XZ Plane



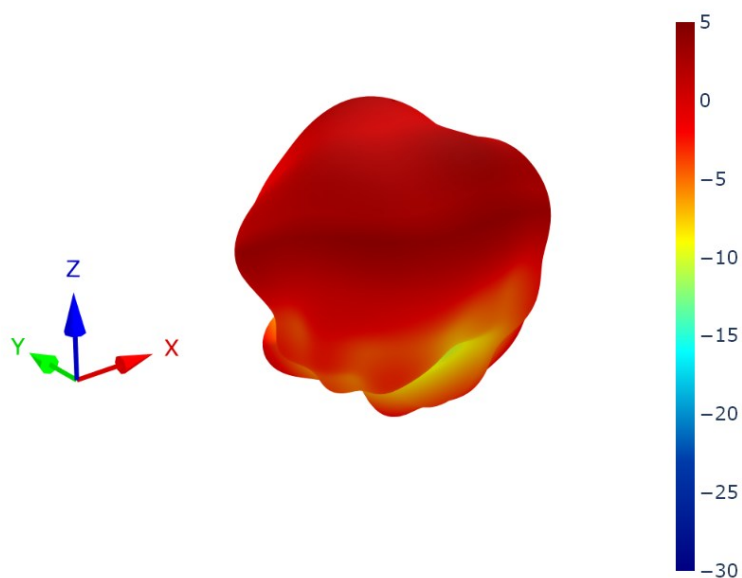
YZ Plane



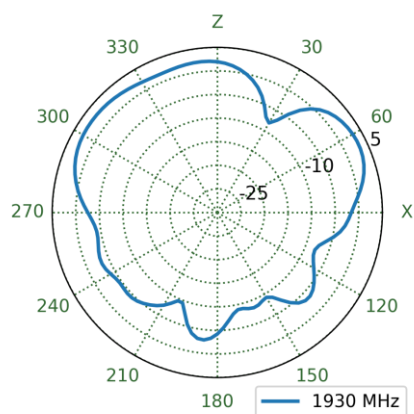
XY Plane



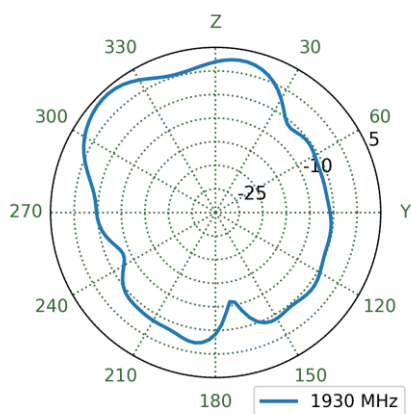
6.29 4G-5G 2 - 30x30cm Ground Plane Patterns at 1930 MHz



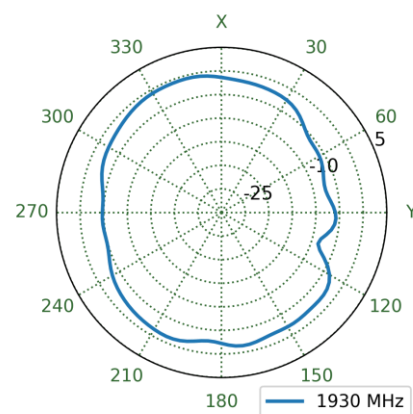
XZ Plane



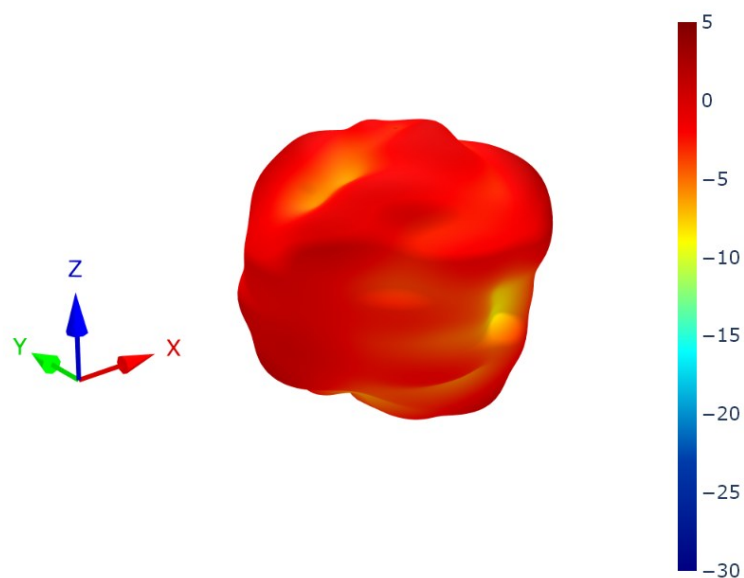
YZ Plane



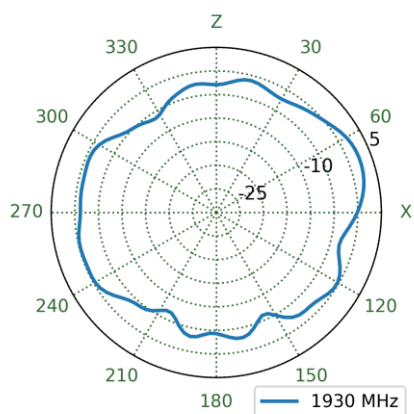
XY Plane



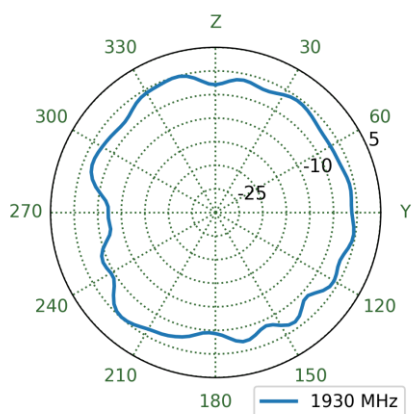
6.30 4G-5G 2 - Free Space Patterns at 1930 MHz



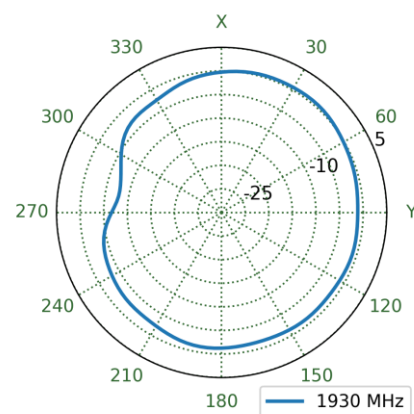
XZ Plane



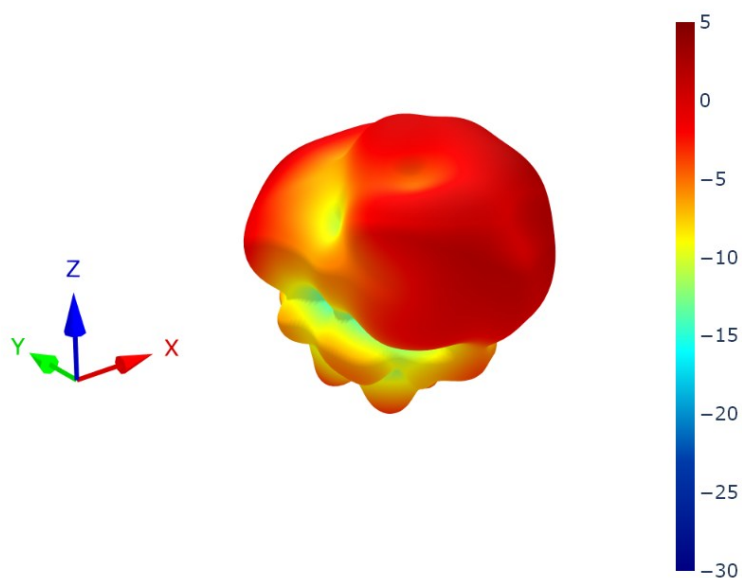
YZ Plane



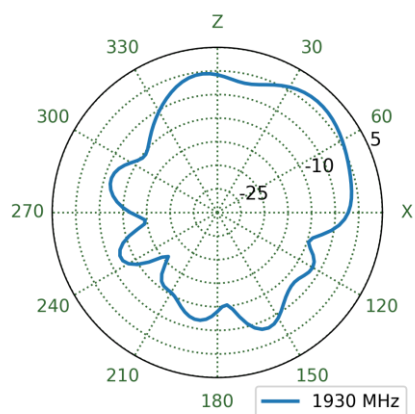
XY Plane



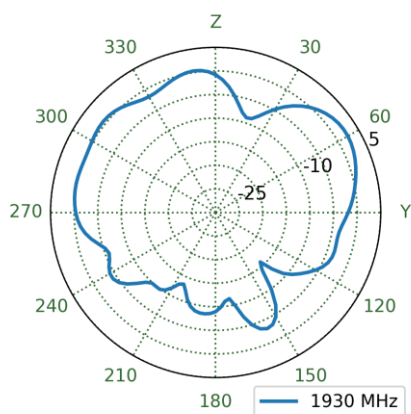
6.31 4G-5G 2 - Metal Box Patterns at 1930 MHz



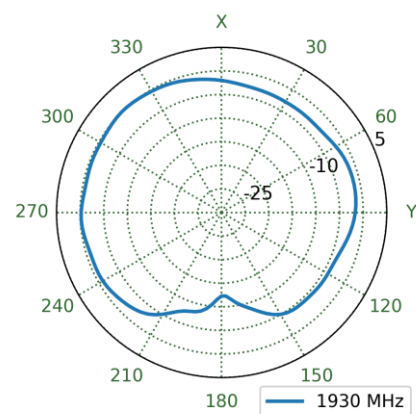
XZ Plane



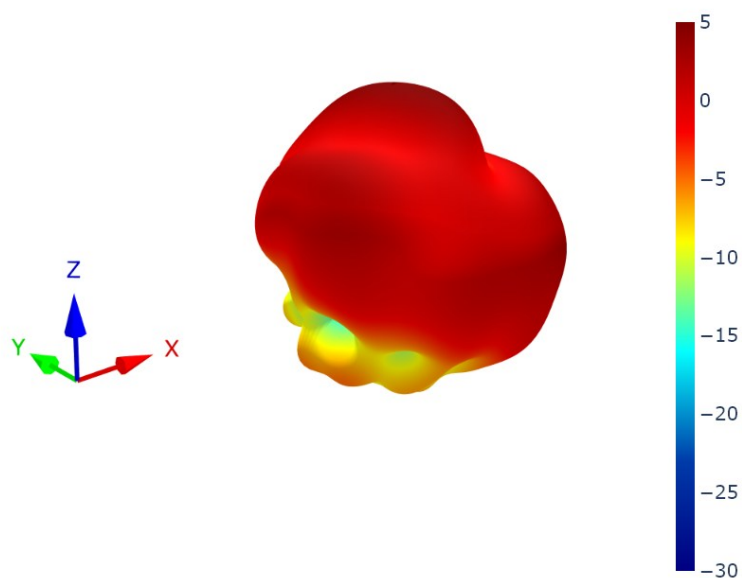
YZ Plane



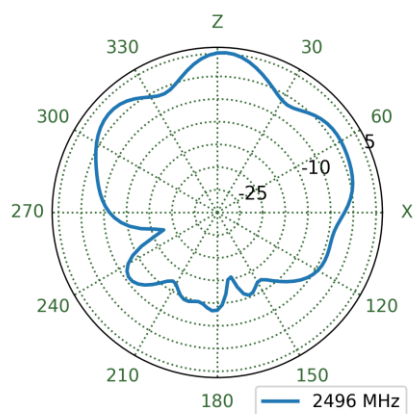
XY Plane



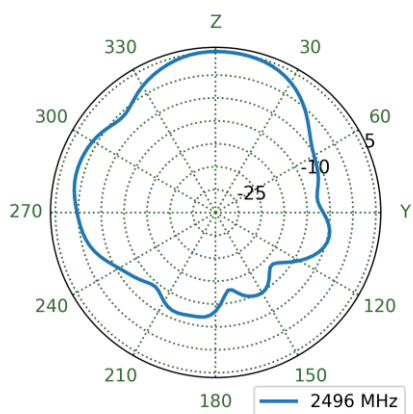
6.32 4G-5G 1 - 30x30cm Ground Plane Patterns at 2496 MHz



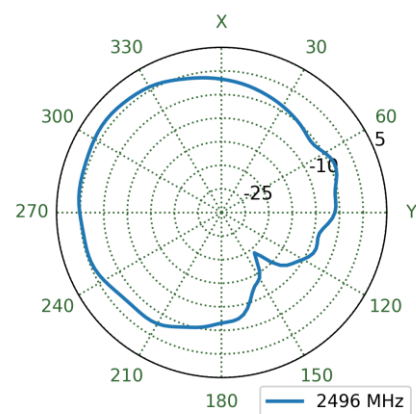
XZ Plane



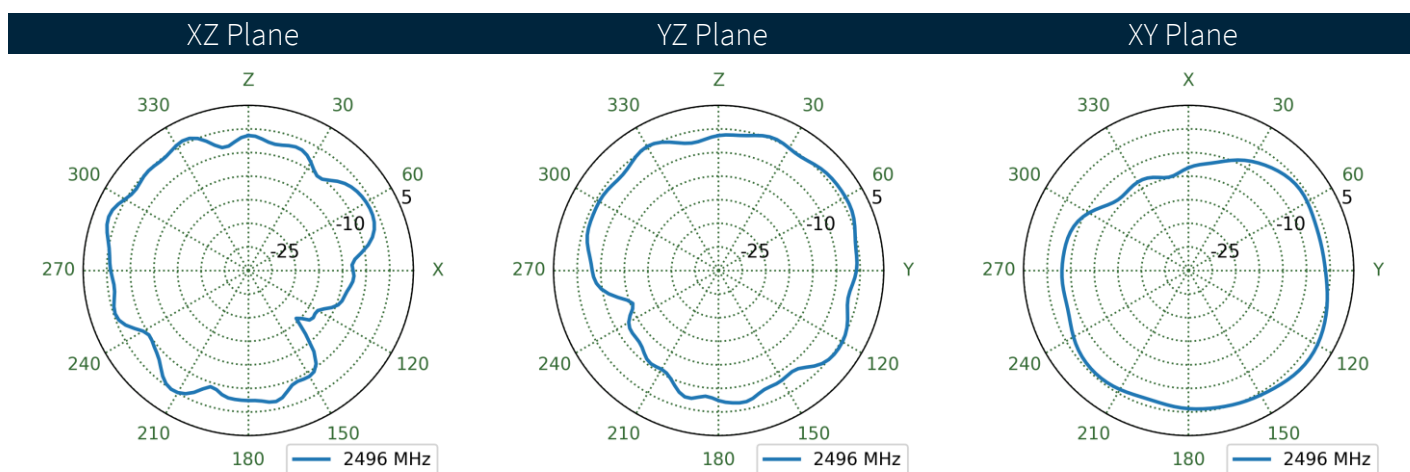
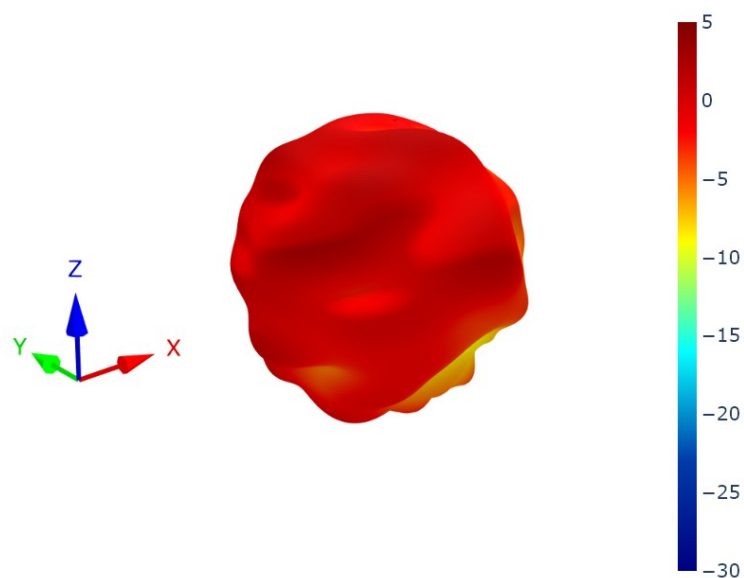
YZ Plane



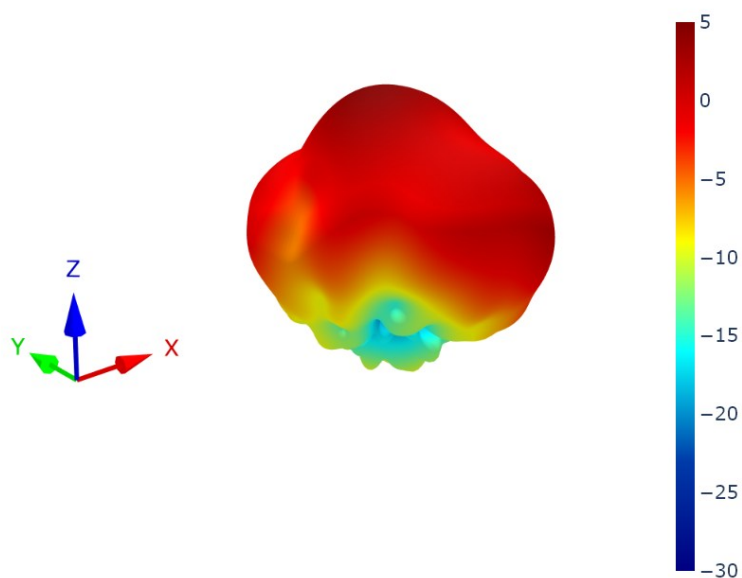
XY Plane



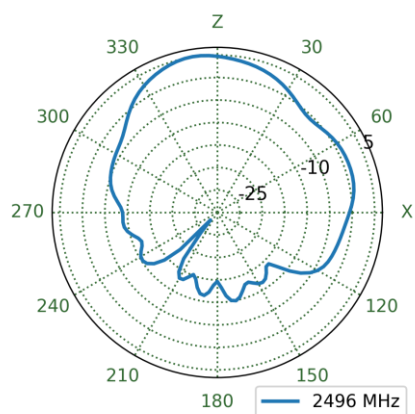
6.33 4G-5G 1 - Free Space Patterns at 2496 MHz



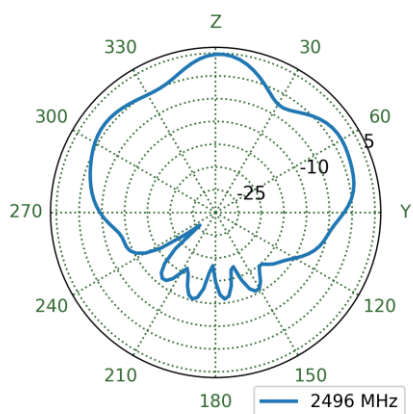
6.34 4G-5G 1 - Metal Box Patterns at 2496 MHz



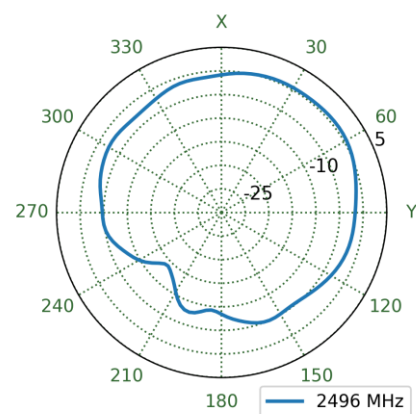
XZ Plane



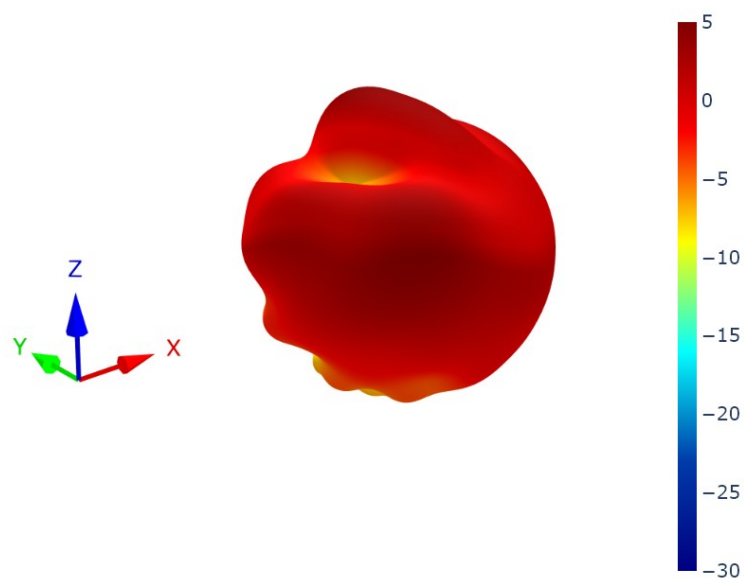
YZ Plane



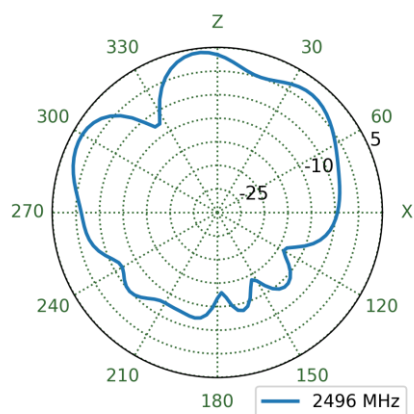
XY Plane



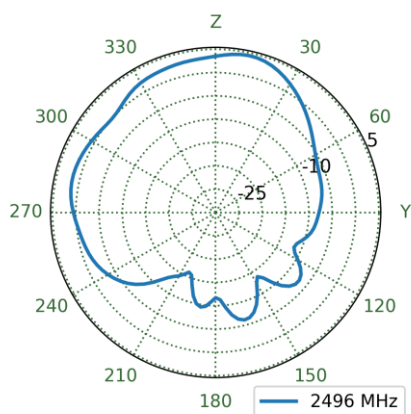
6.35 4G-5G 2 - 30x30cm Ground Plane Patterns at 2496 MHz



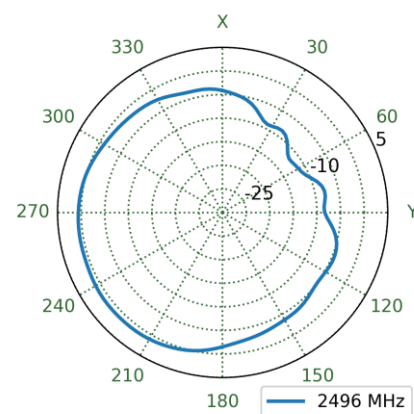
XZ Plane



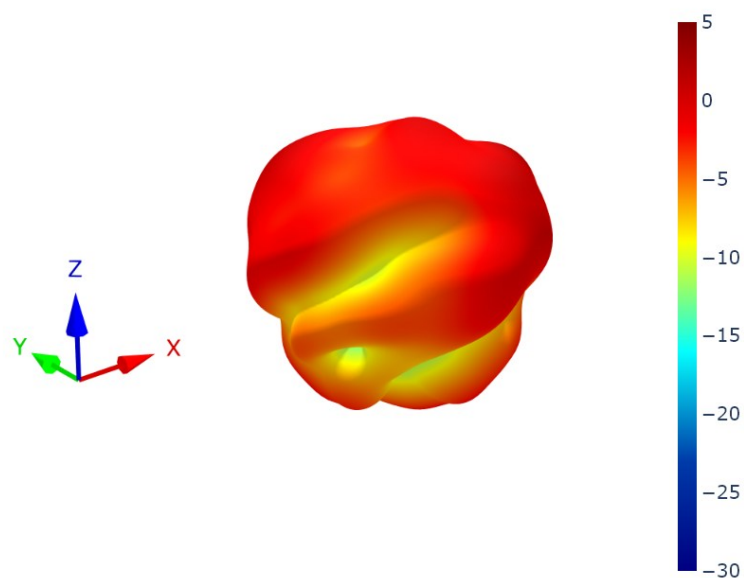
YZ Plane



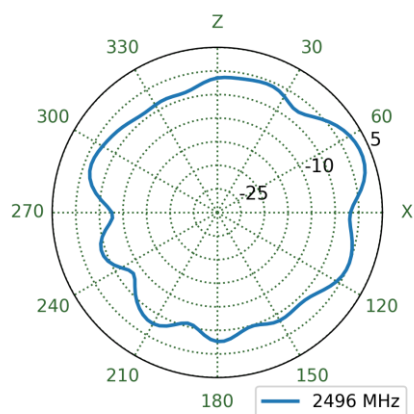
XY Plane



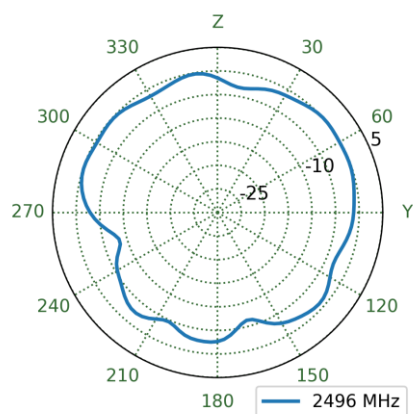
6.36 4G-5G 2 - Free Space Patterns at 2496 MHz



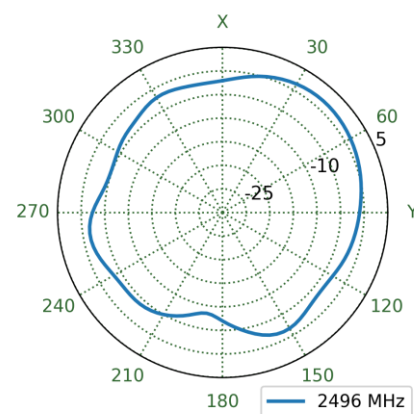
XZ Plane



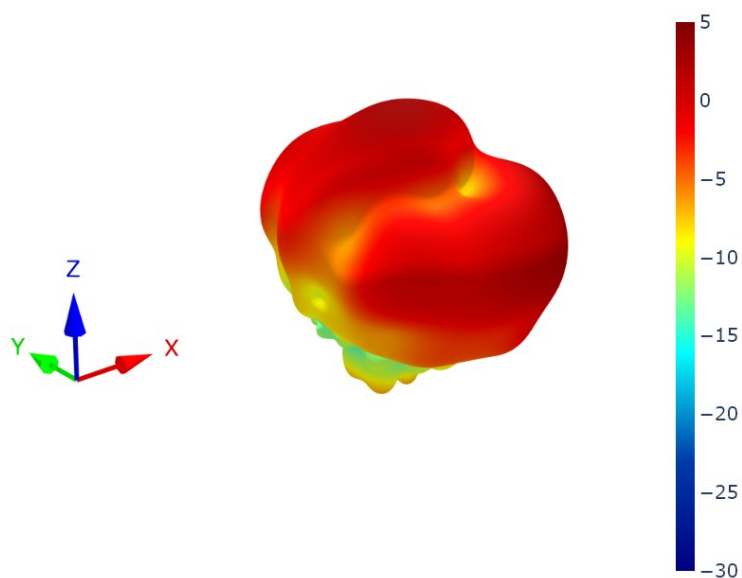
YZ Plane



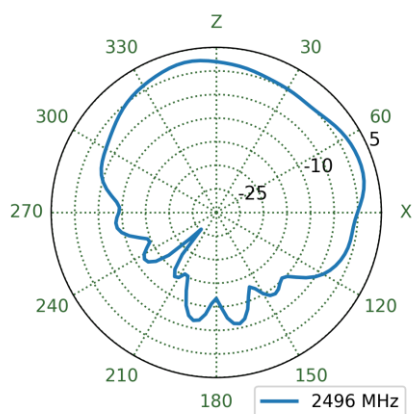
XY Plane



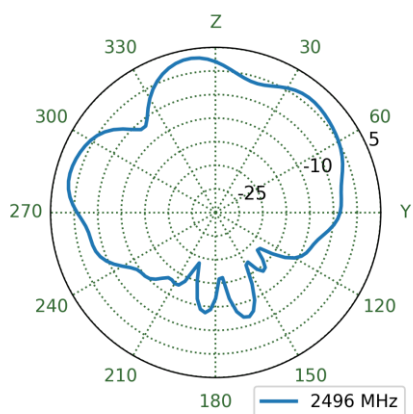
6.37 4G-5G 2 - Metal Box Patterns at 2496 MHz



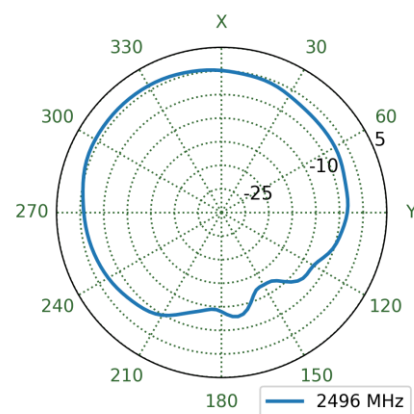
XZ Plane



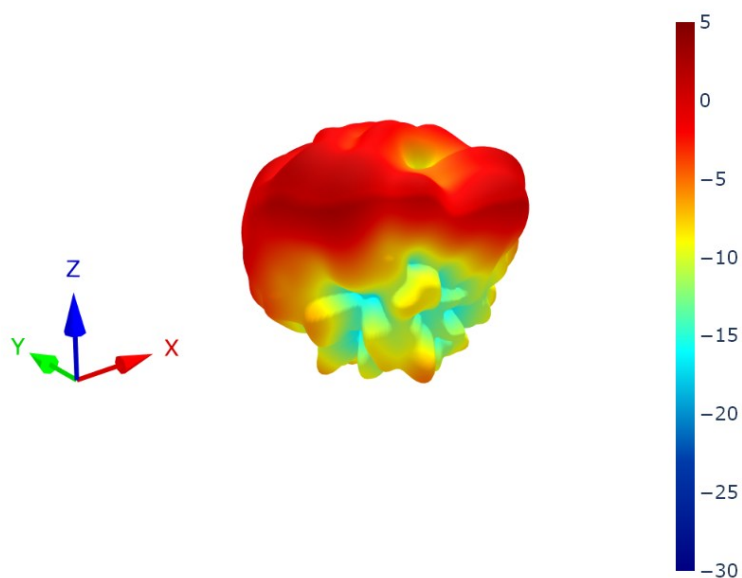
YZ Plane



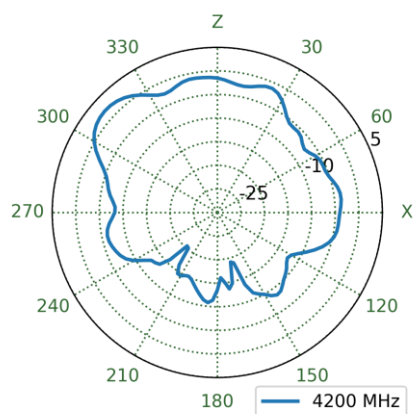
XY Plane



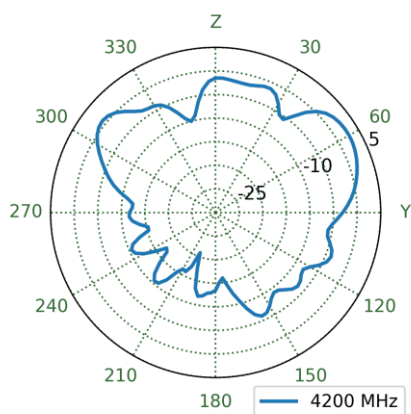
6.38 4G-5G 1 - 30x30cm Ground Plane Patterns at 4200 MHz



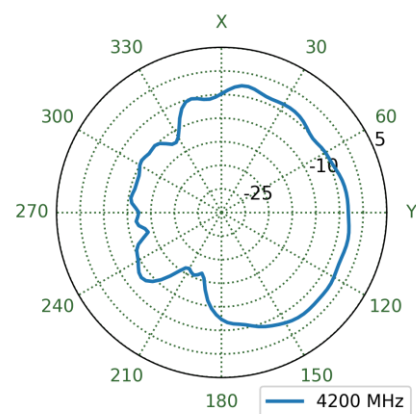
XZ Plane



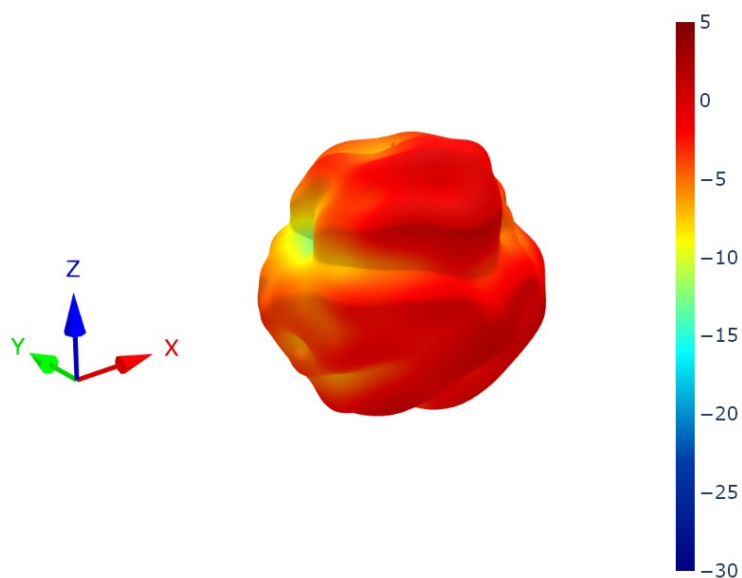
YZ Plane



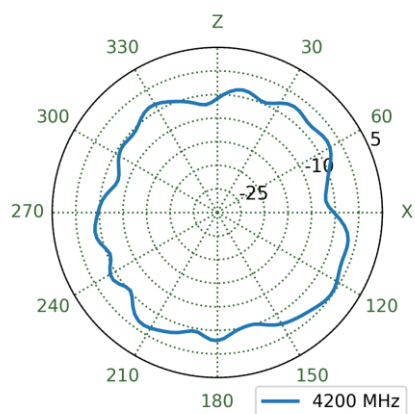
XY Plane



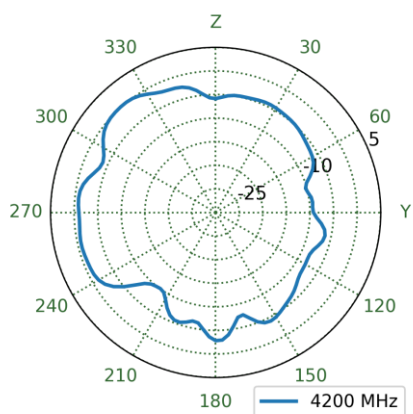
6.39 4G-5G 1 - Free Space Patterns at 4200 MHz



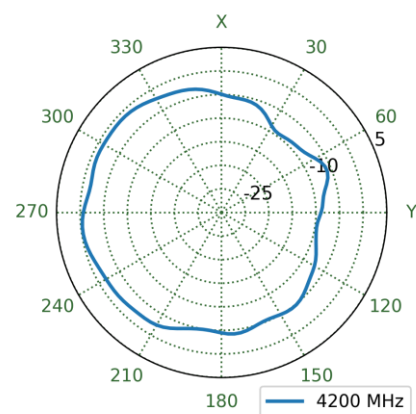
XZ Plane



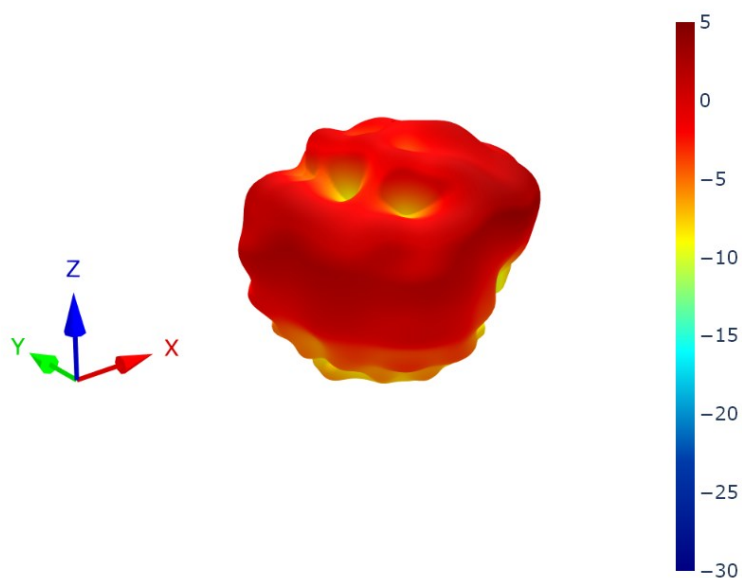
YZ Plane



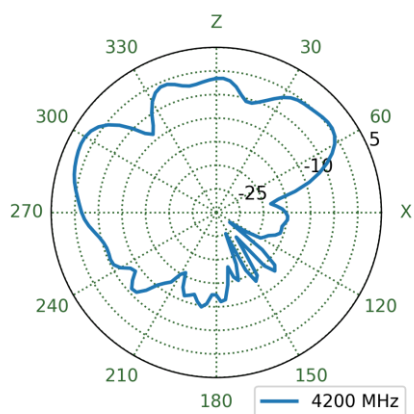
XY Plane



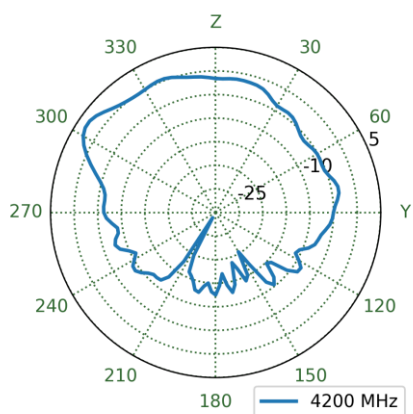
6.40 4G-5G 1 - Metal Box Patterns at 4200 MHz



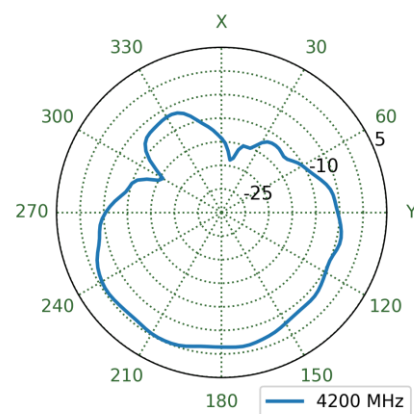
XZ Plane



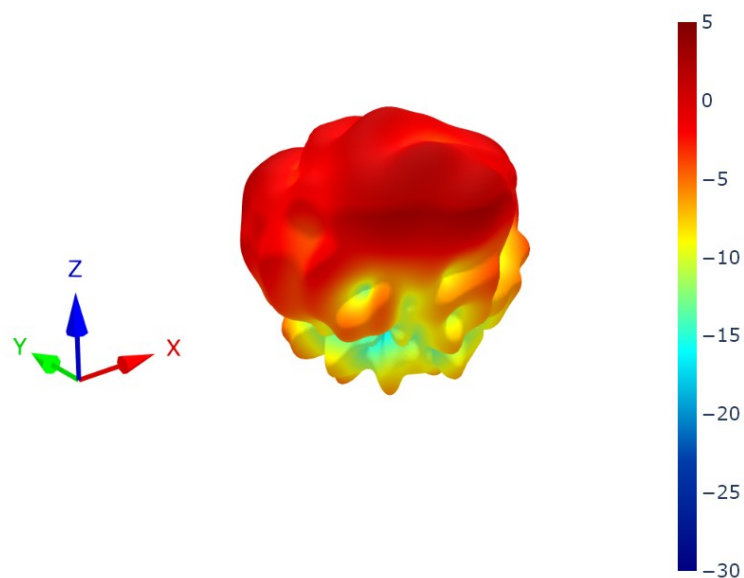
YZ Plane



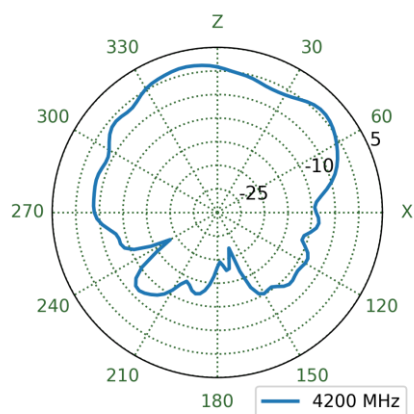
XY Plane



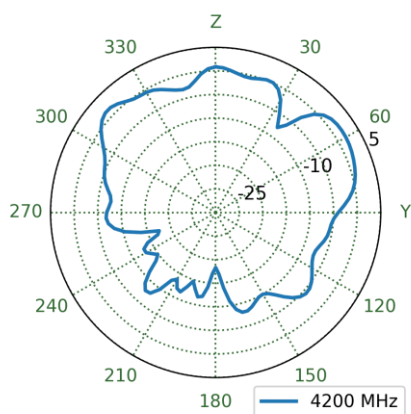
6.41 4G-5G 2 - 30x30cm Ground Plane Patterns at 4200 MHz



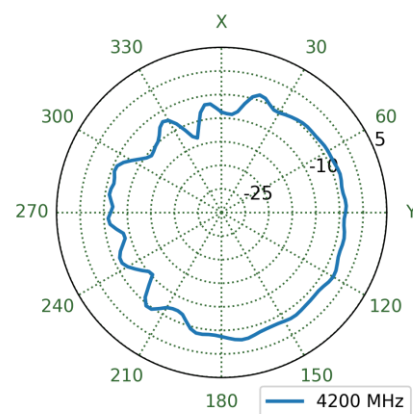
XZ Plane



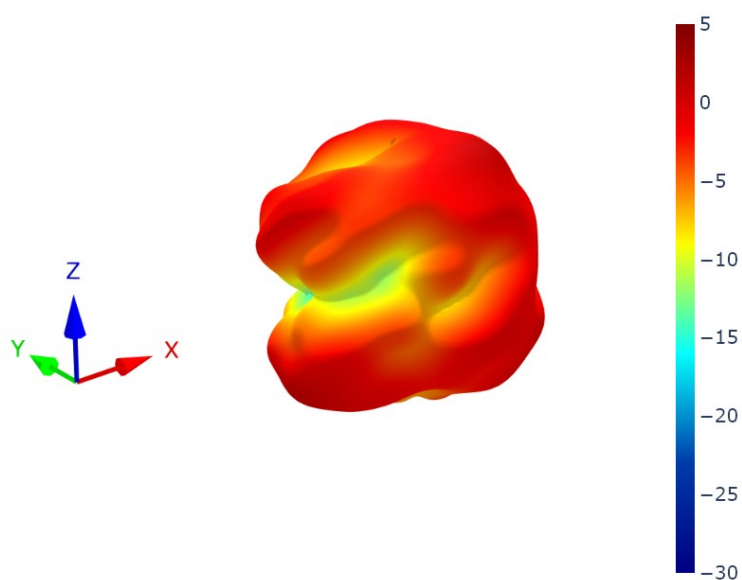
YZ Plane



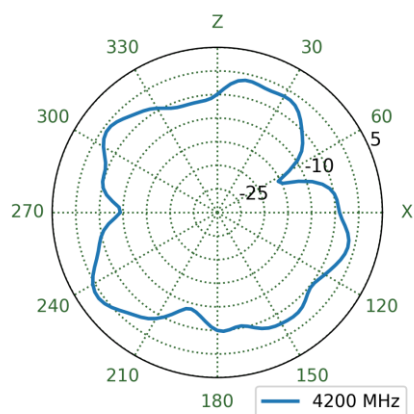
XY Plane



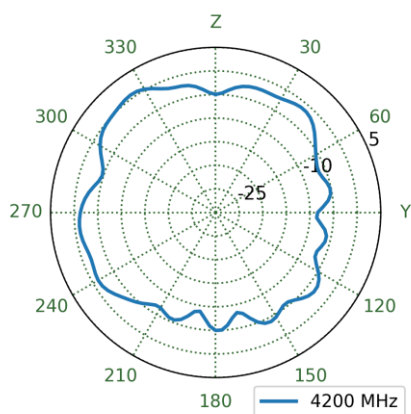
6.42 4G-5G 2 - Free Space Patterns at 4200 MHz



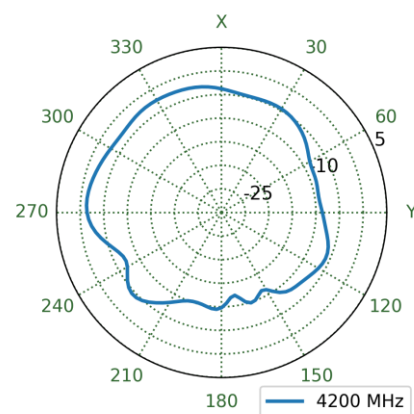
XZ Plane



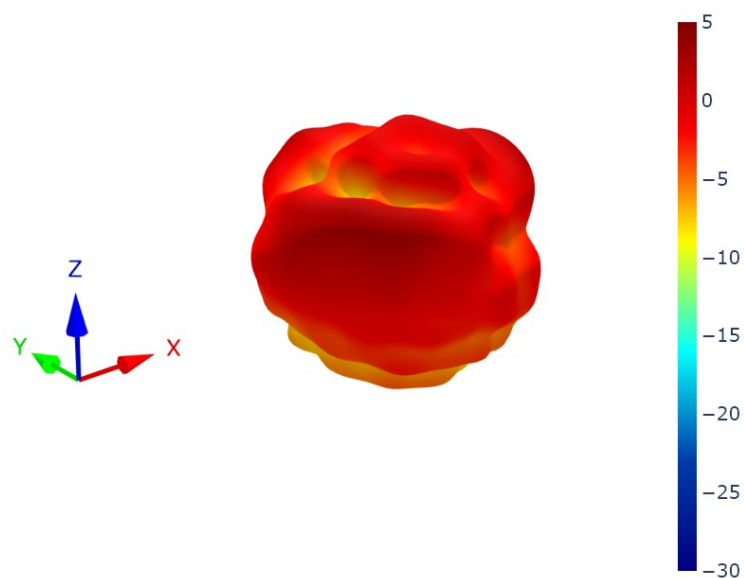
YZ Plane



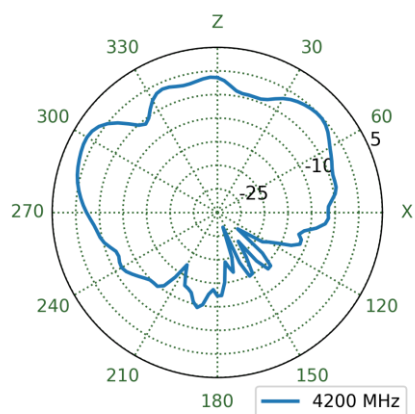
XY Plane



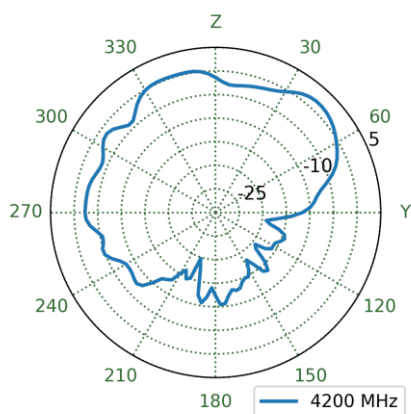
6.43 4G-5G 2 - Metal Box Patterns at 4200 MHz



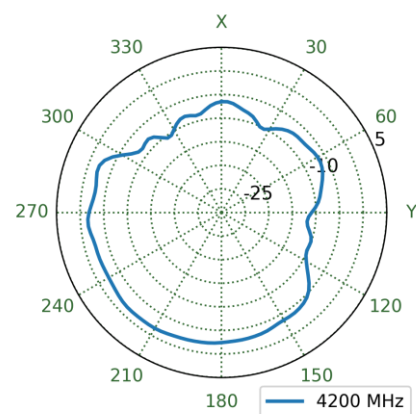
XZ Plane



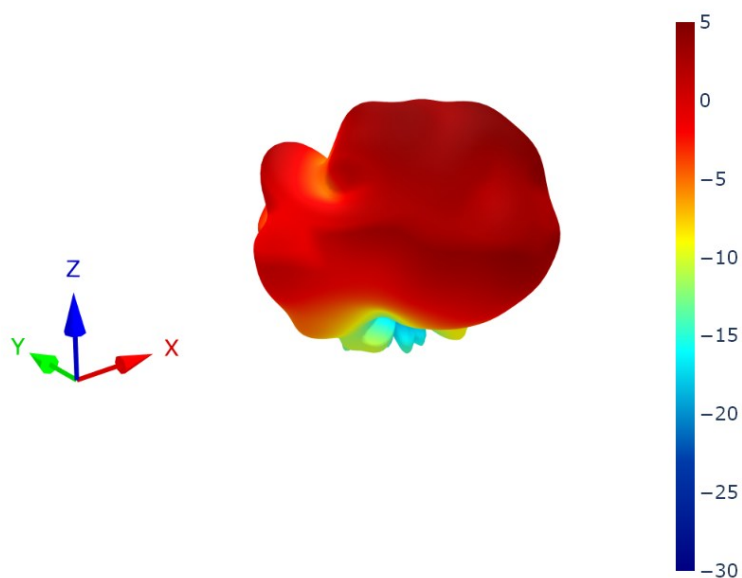
YZ Plane



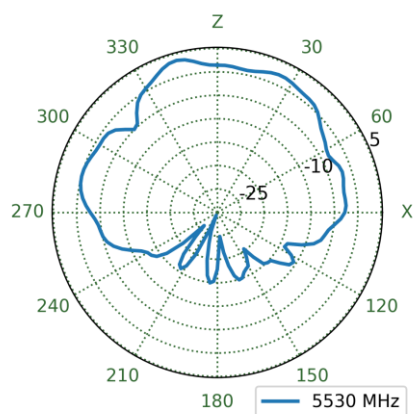
XY Plane



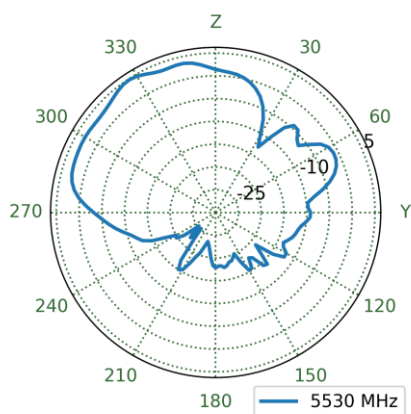
6.44 4G-5G 1 - 30x30cm Ground Plane Patterns at 5530 MHz



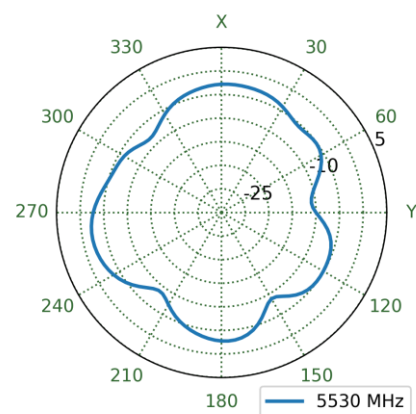
XZ Plane



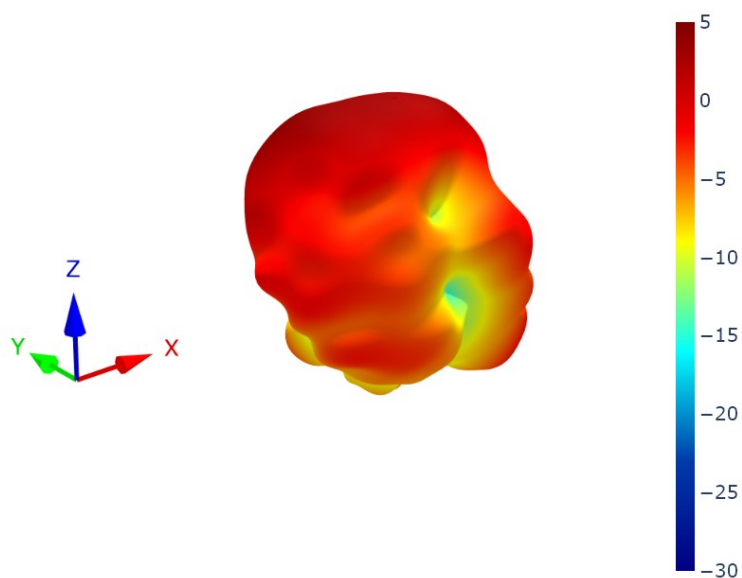
YZ Plane



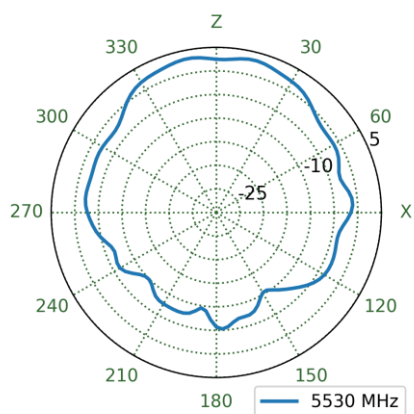
XY Plane



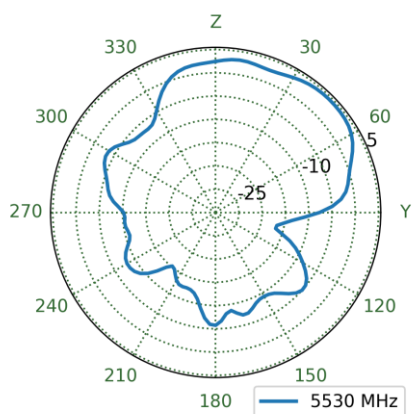
6.45 4G-5G 1 - Free Space Patterns at 5530 MHz



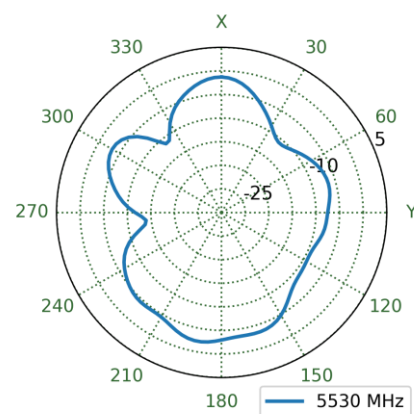
XZ Plane



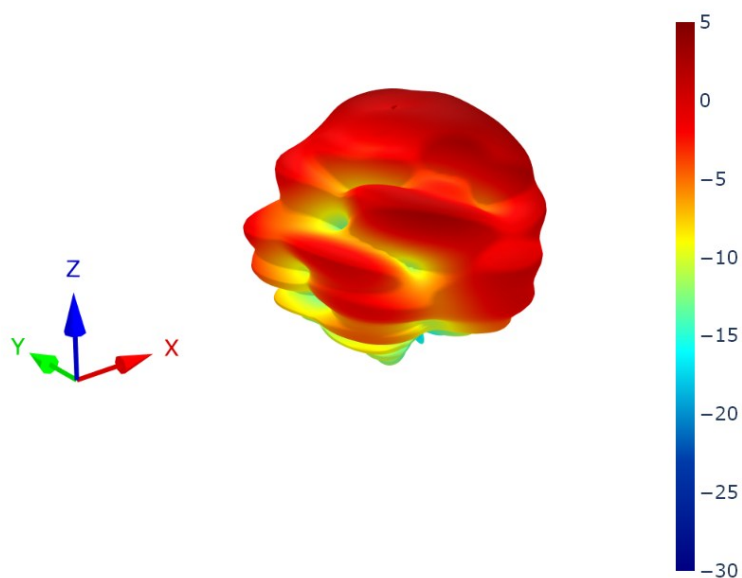
YZ Plane



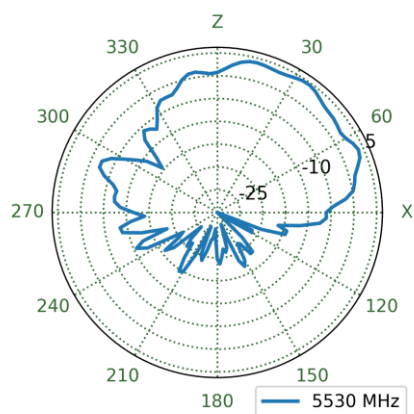
XY Plane



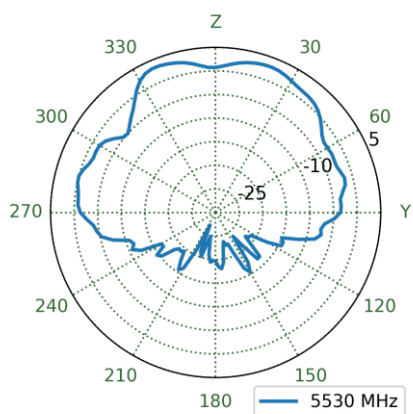
6.46 4G-5G 1 - Metal Box Patterns at 5530 MHz



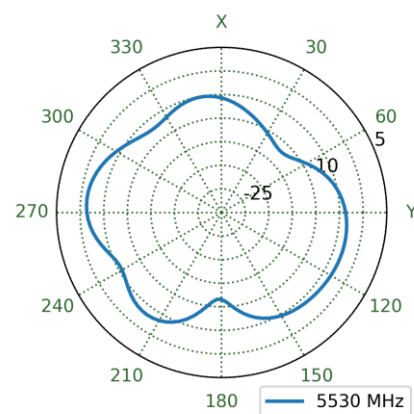
XZ Plane



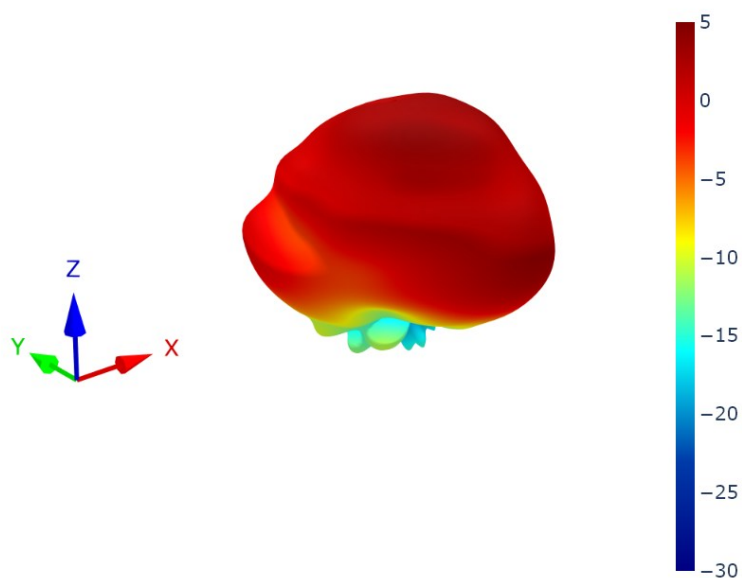
YZ Plane



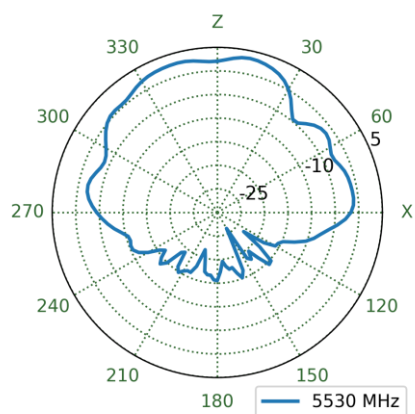
XY Plane



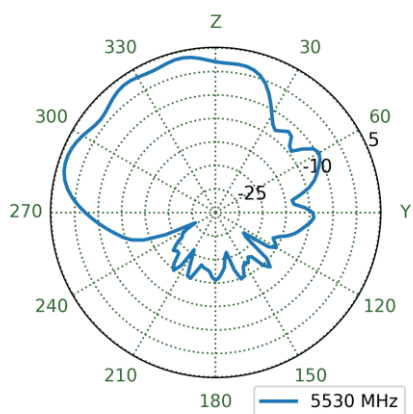
6.47 4G-5G 2 - 30x30cm Ground Plane Patterns at 5530 MHz



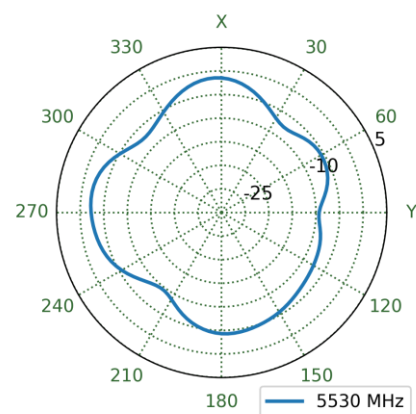
XZ Plane



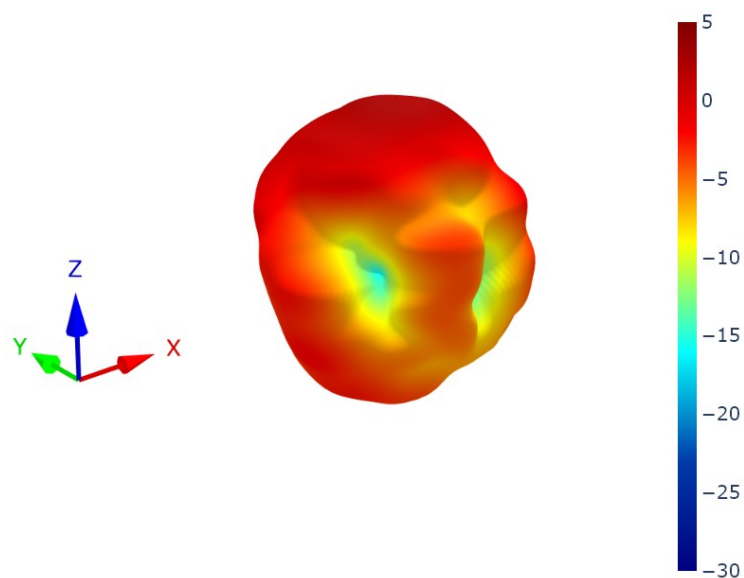
YZ Plane



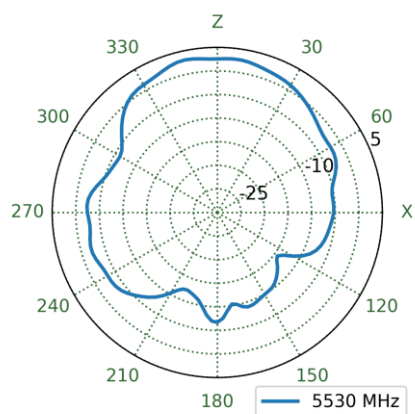
XY Plane



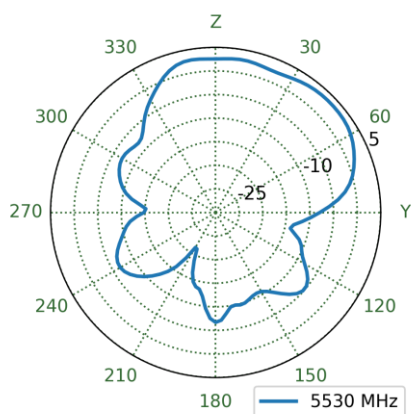
6.48 4G-5G 2 - Free Space Patterns at 5530 MHz



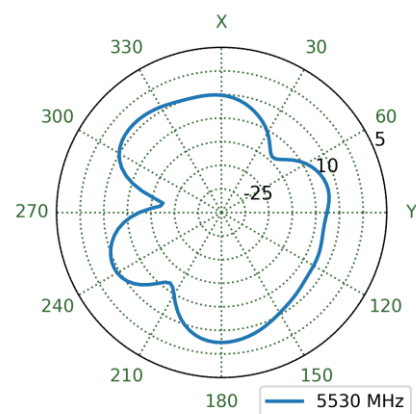
XZ Plane



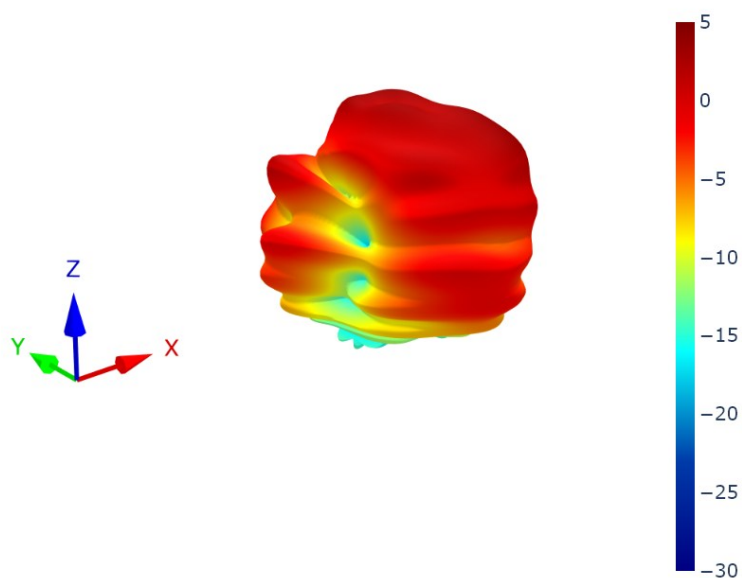
YZ Plane



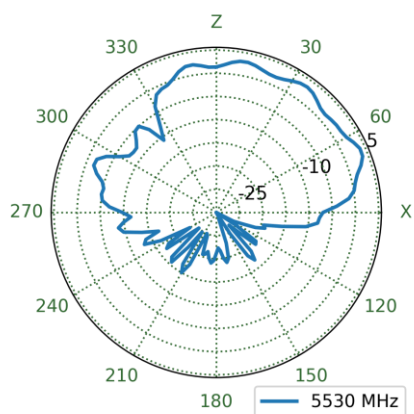
XY Plane



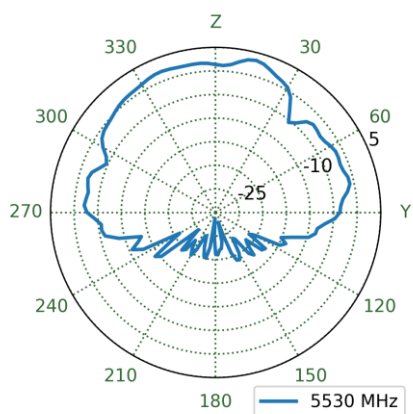
6.49 4G-5G 2 - Metal Box Patterns at 5530 MHz



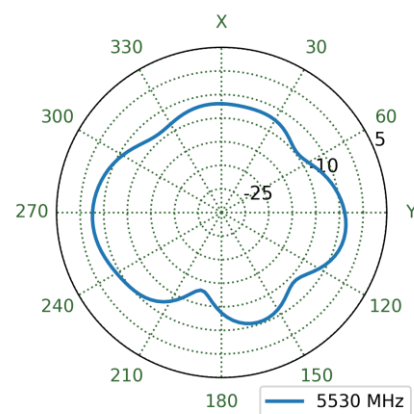
XZ Plane



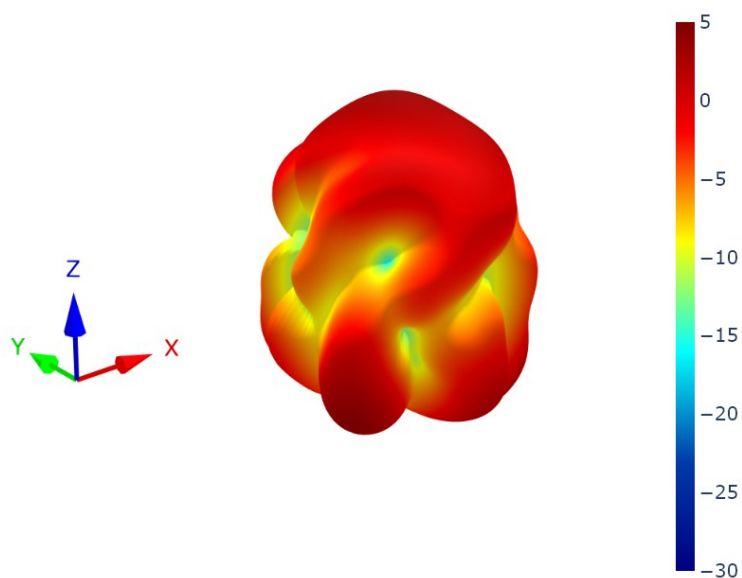
YZ Plane



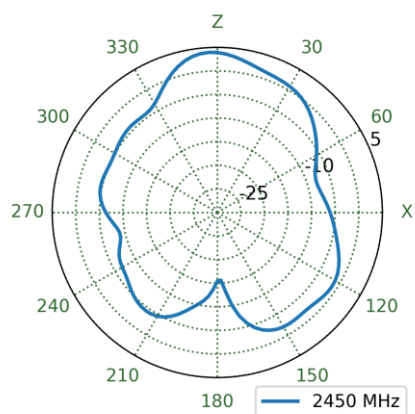
XY Plane



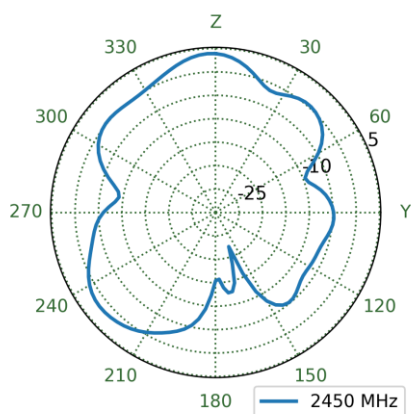
6.50 Wi-Fi- 30x30cm Ground Plane Patterns at 2450 MHz



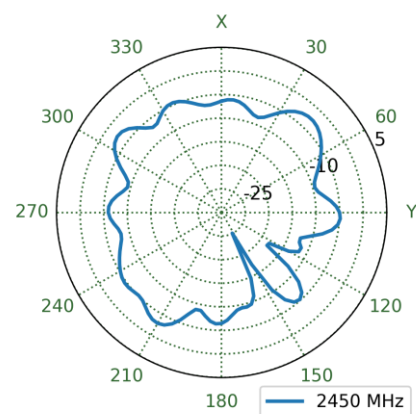
XZ Plane



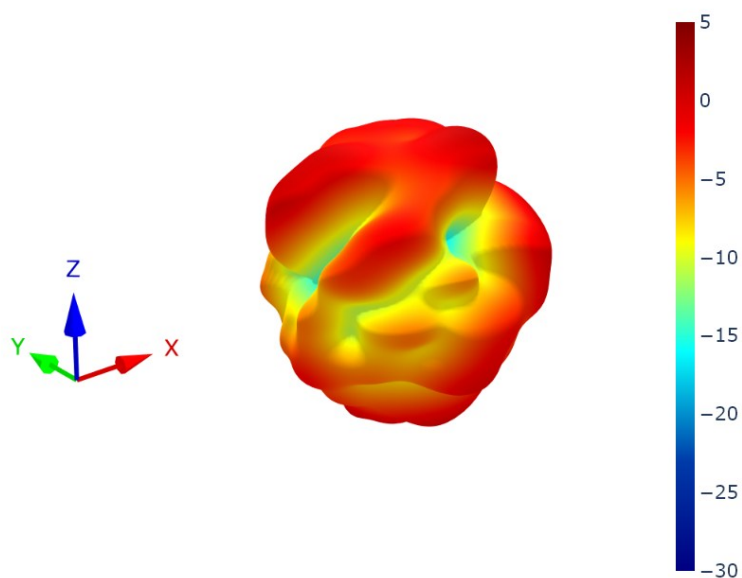
YZ Plane



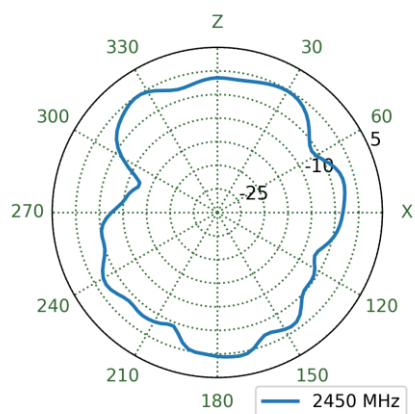
XY Plane



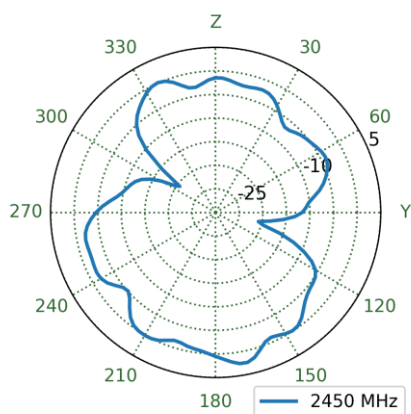
6.51 Wi-Fi- Free Space Patterns at 2450 MHz



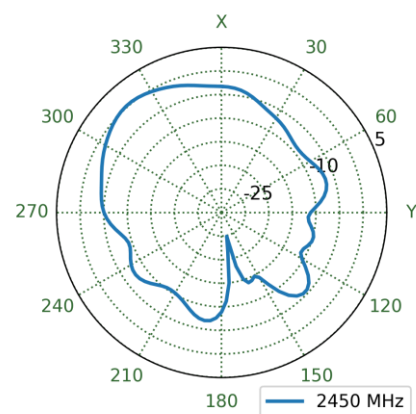
XZ Plane



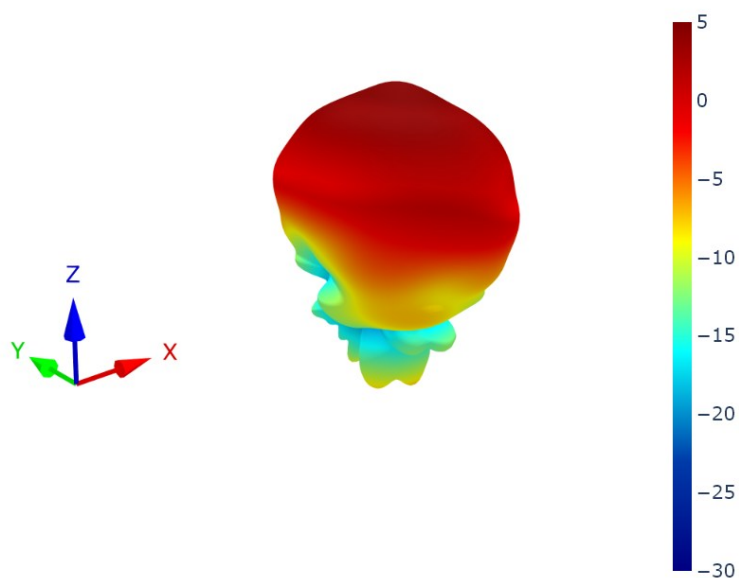
YZ Plane



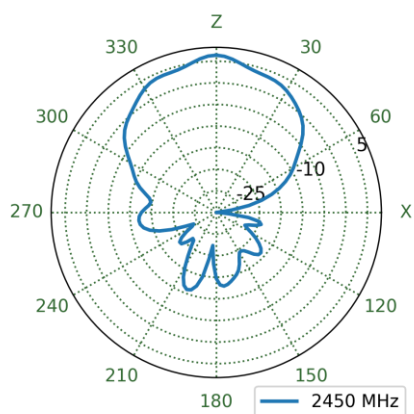
XY Plane



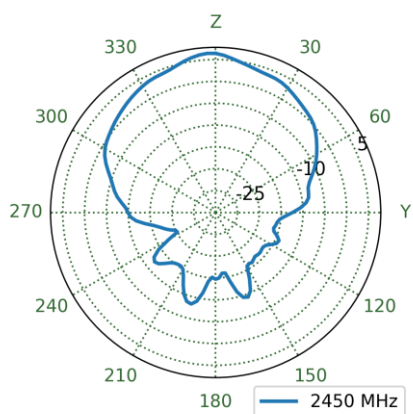
6.52 Wi-Fi- Metal Box Patterns at 2450 MHz



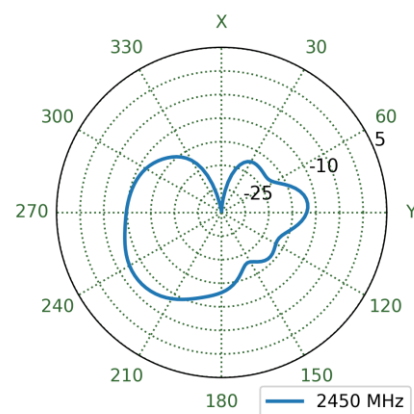
XZ Plane



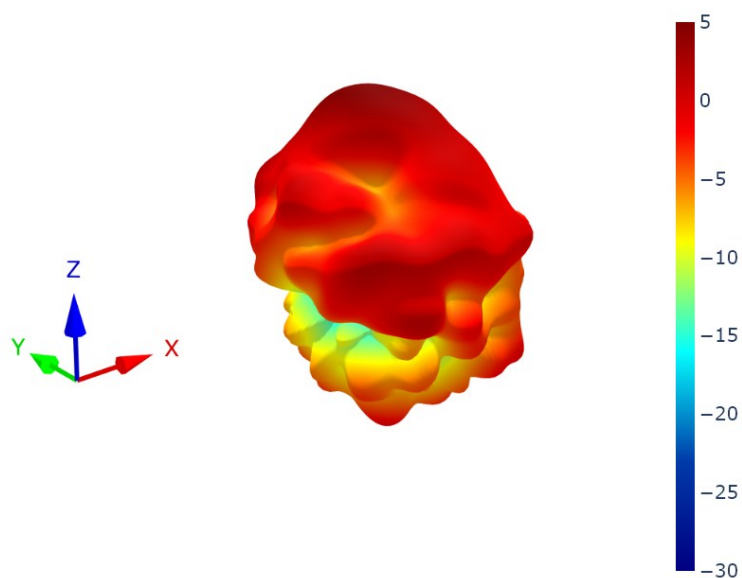
YZ Plane



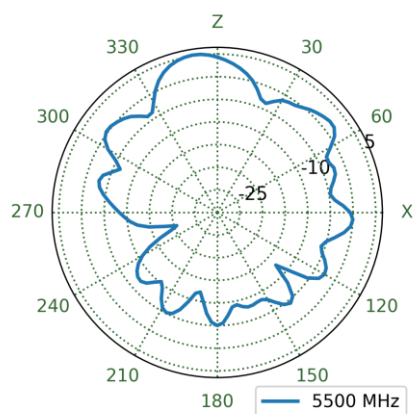
XY Plane



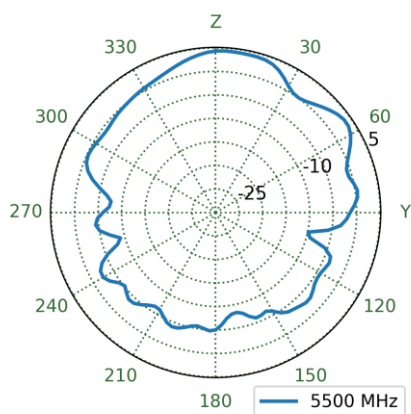
6.53 Wi-Fi- 30x30cm Ground Plane Patterns at 5500 MHz



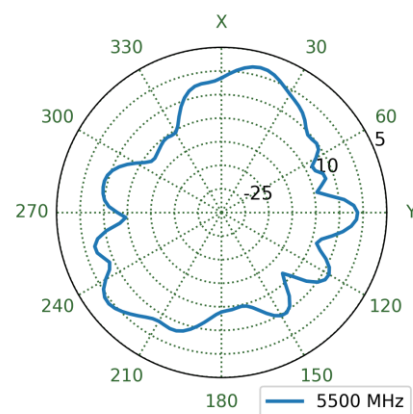
XZ Plane



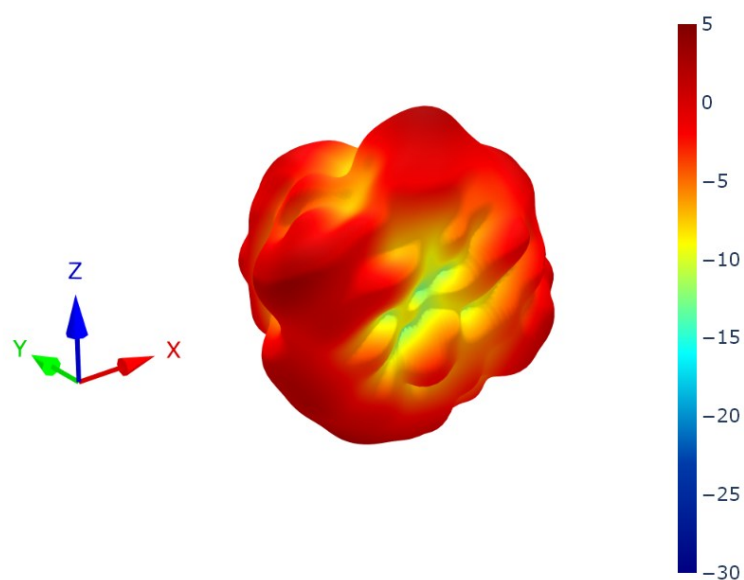
YZ Plane



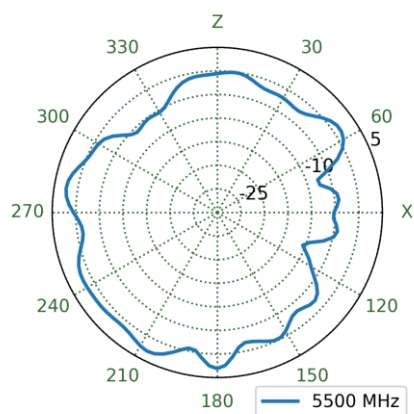
XY Plane



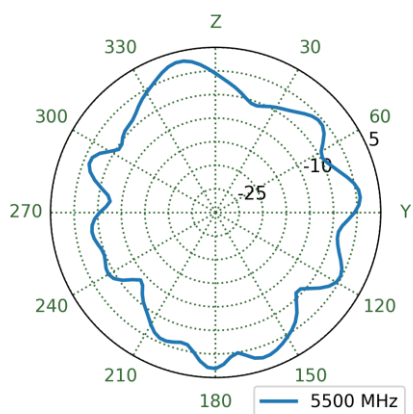
6.54 Wi-Fi- Free Space Patterns at 5500 MHz



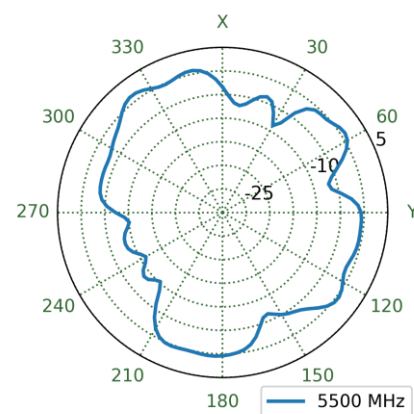
XZ Plane



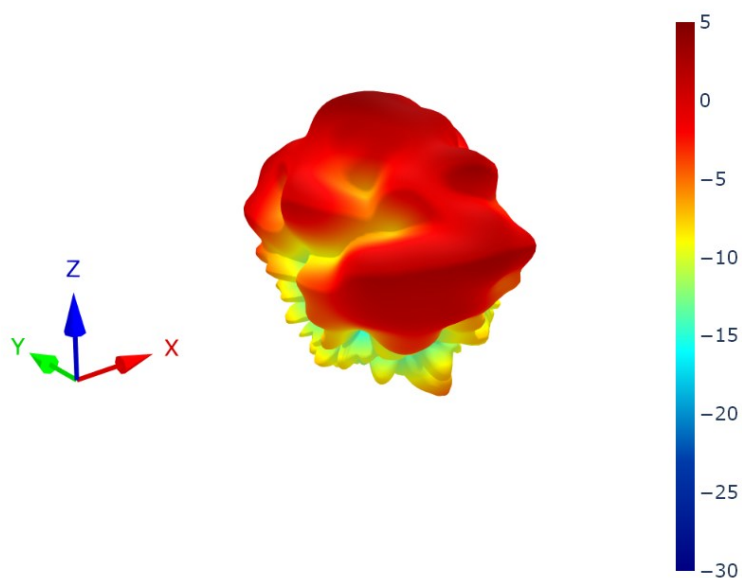
YZ Plane



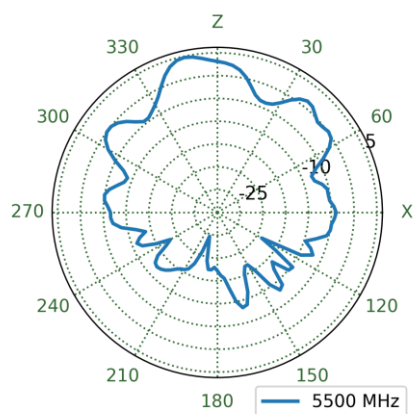
XY Plane



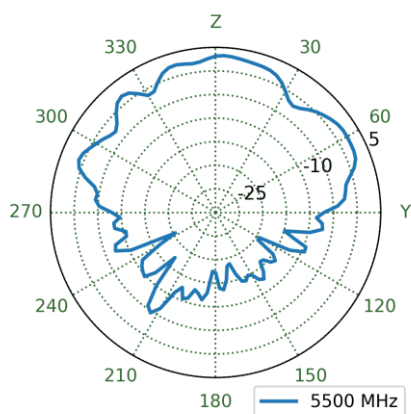
6.55 Wi-Fi- Metal Box Patterns at 5500 MHz



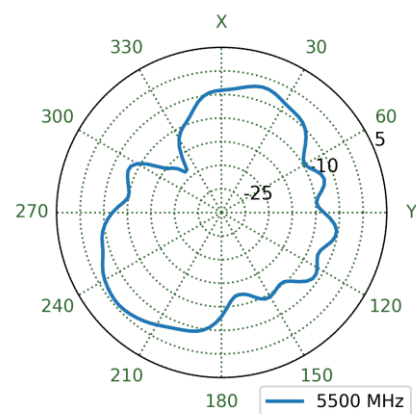
XZ Plane



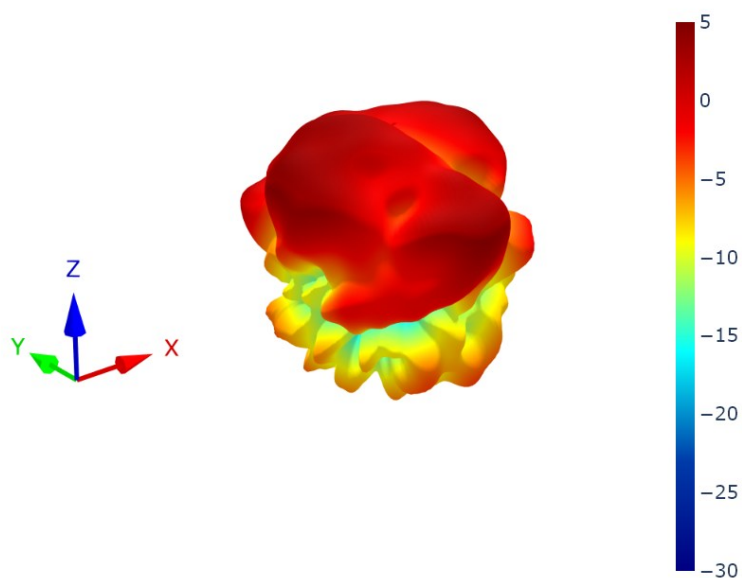
YZ Plane



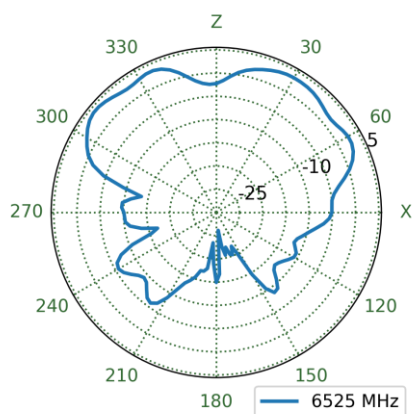
XY Plane



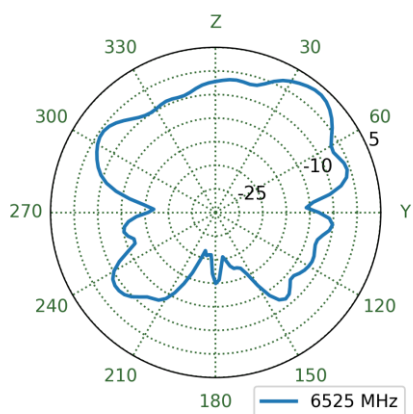
6.56 Wi-Fi- 30x30cm Ground Plane Patterns at 6525 MHz



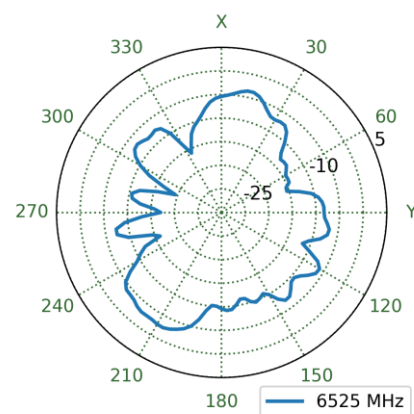
XZ Plane



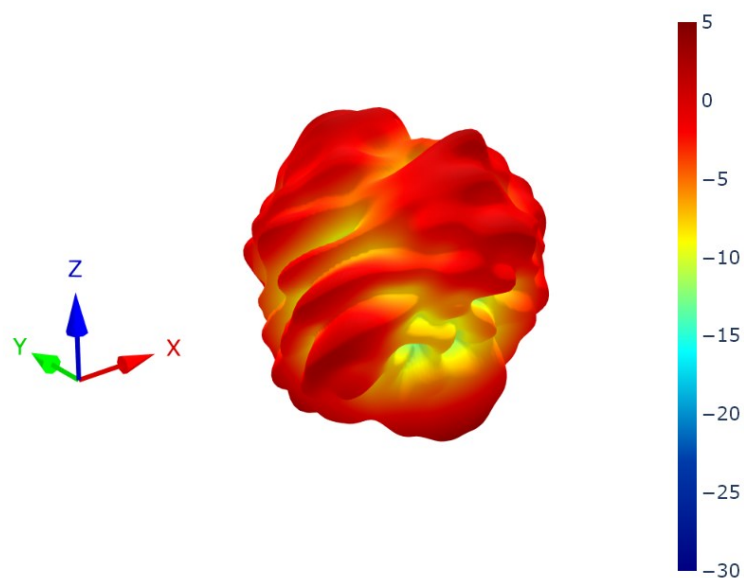
YZ Plane



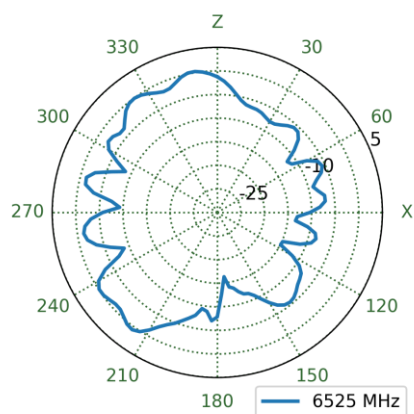
XY Plane



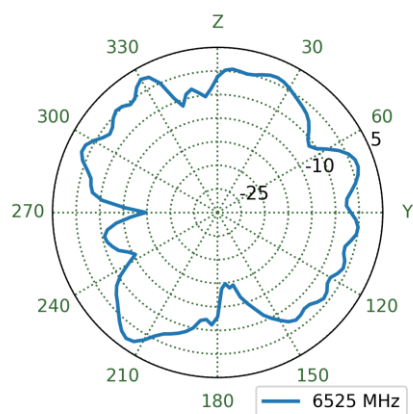
6.57 Wi-Fi- Free Space Patterns at 6525 MHz



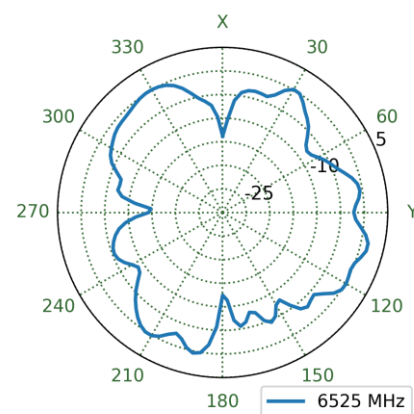
XZ Plane



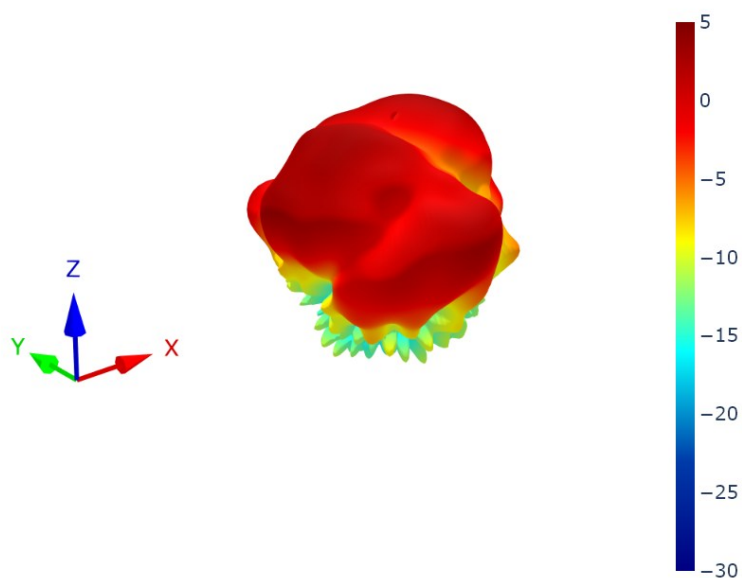
YZ Plane



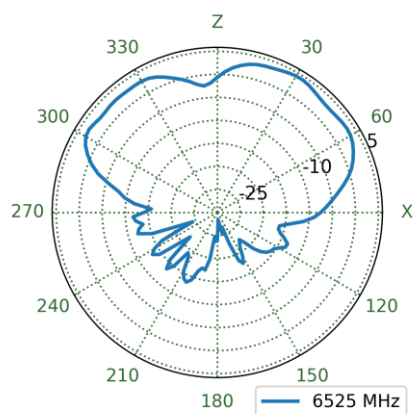
XY Plane



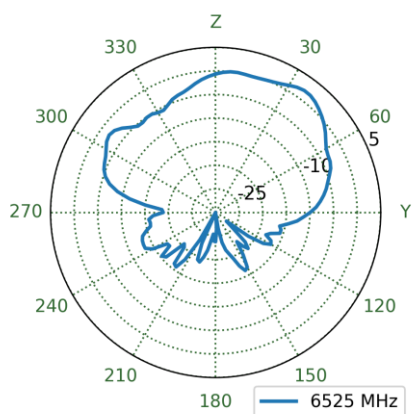
6.58 Wi-Fi- Metal Box Patterns at 6525 MHz



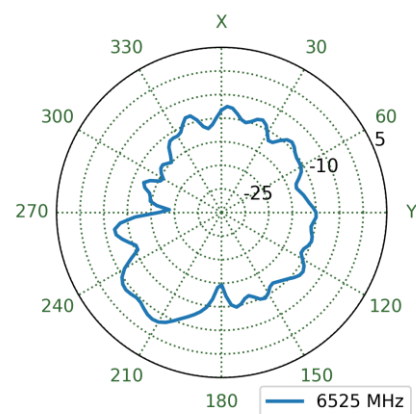
XZ Plane



YZ Plane



XY Plane



Changelog for the datasheet

SPE-24-8-289– MA183.A.001

Revision: B (Current Version)

Date:	2025-06-10
Notes:	Updated drawing with thread size from M18 to M12.
Author:	Conor McGrath

Previous Revisions

Revision: A (Original First Release)

Date:	2024-11-28
Notes:	Initial Release
Author:	Gary West



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