



TAOGLAS®



Datasheet

Raptor X Series

Part No:
MA8007.A.001

Description

7in1 Screwmount 2m RG-174 TGC-302 GNSS L1-L5 SMA(M) 5G(1-4) SMA(M) Wi-Fi(1-2) RP-SMA(M)

Features:

- 1*GNSS L1/L5 Bands
- 4* 5G/4G LTE Cellular 600-6000MHz
- 2* Wi-Fi 2.4/5.8/7.125GHz
- Dimensions: 350mm x 70mm x 39mm
- M22 Thread
- IP69K Rated Enclosure
- Cable: GNSS- 2m of RG-174, Wi-Fi & 5G/4G –2m of TGC-302
- Connector: GNSS – SMA(M), 5G/4G – SMA(M), Wi-Fi – RP-SMA(M)
- Custom Cables and Connectors Available
- RoHS & Reach Compliant

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1. Introduction



Introducing the Taoglas Raptor X MA8007, a low-profile, sleek, 7-in-1 combination antenna engineered for the next generation of routers and gateways. The advanced combination antenna offers dual-band GNSS L1/L5 for exceptional navigational positional accuracy and high-efficiency 5G/4G wideband cellular connectivity spanning 600-6000MHz for superior mobile connectivity. Applications can be future-proofed with the tri-band Wi-Fi 6 antennas covering 2.4/5.8/7.125GHz.

The Raptor X boasts a compact form factor of just 350 x 70 x 39mm, setting a new market standard for products containing up to 10 antennas. With a height of only 39mm, it is ideal for vehicle roof installations where height constraints are common, typically below 80mm. Its sleek, 70mm design allows it to fit seamlessly on various NEMA cabinets and between the ribs on many vehicle roofs. The MA8007 has an extremely robust IP69K rated enclosure allowing for the most demanding of use cases and applications.

Typical applications include:

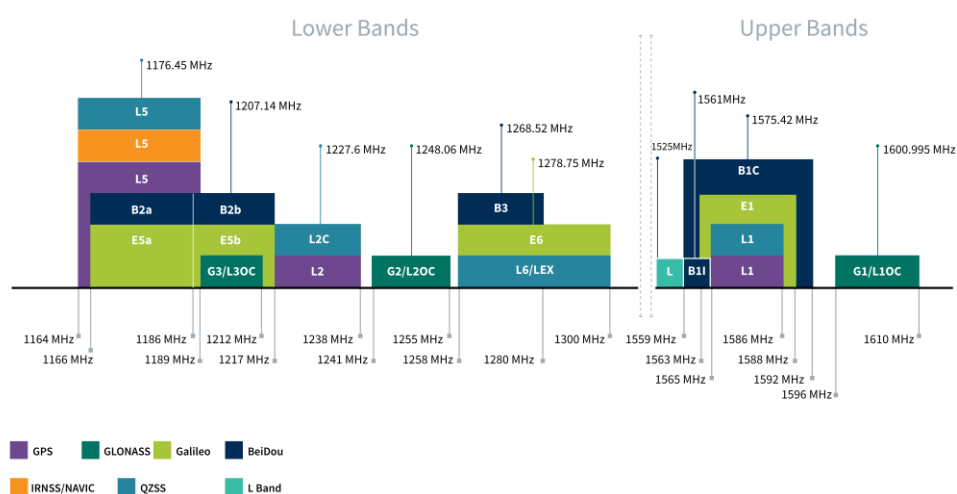
- Emergency and First Responder Vehicles
- EV Charger Stations
- Smart Industry and Warehouse Applications
- Private LTE Networks

The MA8007, part of the Raptor X series, offers customization with up to ten connections, one GNSS, four cellular, and five Wi-Fi antennas tailored for specific routers and customer configurations. All cables and connectors can be fully customized to meet your unique requirements.

For further information on how to integrate the Raptor X or for orders, please contact your regional Taoglas customer support team

2. Specification

GNSS Frequency Bands					
GPS	L1 1575.42 MHz	L2 1227.6 MHz	L5 1176.45 MHz		
	■	□	■		
GLONASS	G1 1602 MHz	G2 1248 MHz	G3 1207 MHz		
	■	□	□		
Galileo	E1 1575.24 MHz	E5a 1176.45 MHz	E5b 1201.5 MHz	E6 1278.75 MHz	
	■	■	□	□	
BeiDou	B1C 1575.42 MHz	B1I 1561 MHz	B2a 1176.45 MHz	B2b 1207.14 MHz	B3 1268.52 MHz
	■	■	■	□	□
L-Band	L-Band 1542 MHz				
	□				
QZSS (Regional)	L1 1575.42 MHz	L2C 1227.6 MHz	L5 1176.45 MHz	L6 1278.75e6	
	■	□	■	□	
IRNSS (Regional)	L5 1176.45 MHz				
	■				
SBAS	L1/E1/B1 1575.42 MHz	L5/B2a/E5a 1176.45 MHz	G1 1602 MHz	G2 1248 MHz	G3 1207 MHz
	■	■	■	□	□



Bands and Constellations Table

GNSS Electrical				
Frequency (MHz)	GPS_L5	BeiDou_B1	GPS_L1	GLONASS_G1
	1164-1189	1559-1592	1565-1586	1596-1610
Average Gain (dB)	-2.95	-2.00	-1.77	-2.62
Efficiency (%)	50.7	63.0	66.5	54.7
Peak Gain (dBi)	2.49	3.93	3.93	3.38
Axial Ratio at Zenith	5	4.8	11.7	13.1
Impedance	50 Ω			
Polarization	RHCP			

LNA and Filter Electrical Properties (3.3V Typ.)		
Frequency (MHz)		High-Band
		Low-Band
LNA Gain (dB)		32.3
Current Consumption (mA)		16.8
Outer Band Attenuation (dB)	At 500 ~ 1000 MHz	60 dB
	At 2000 ~ 2690MHz	60 dB
	At 3300~ 6000MHz	60 dB
Output Impedance		50 ohm
Input Voltage(V)		+1.8 to 5.5

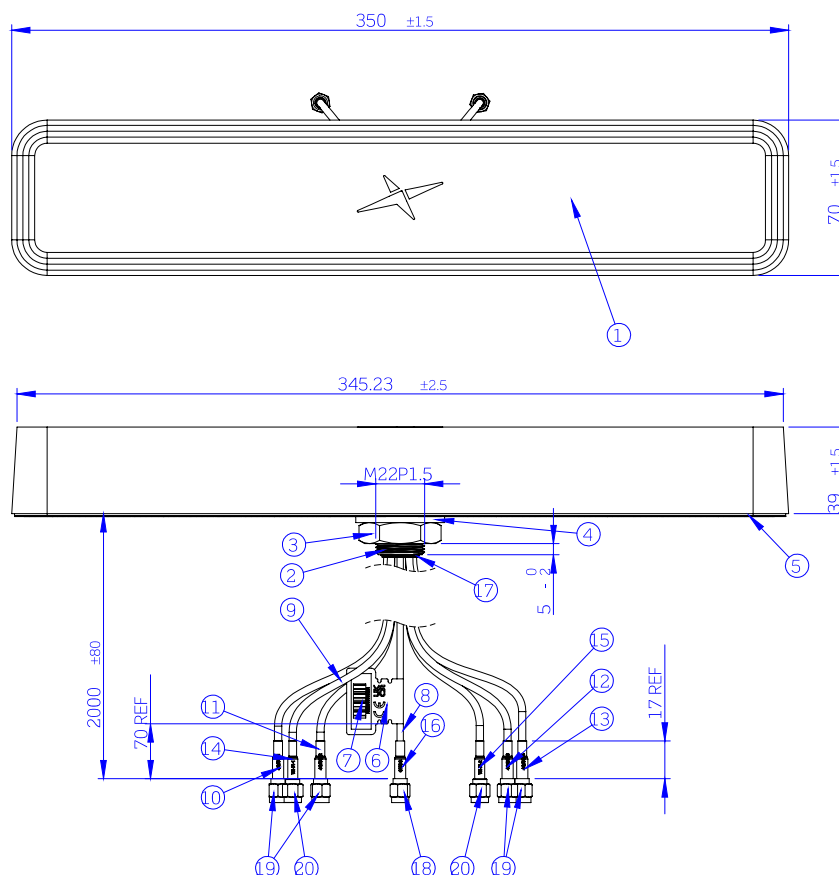
LTE Electrical									
Band	Frequency (MHz)	Measurement	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	Impedance	Polarization	Radiation Pattern	Max. input power
5GNR/4G Band71	617-698	4G5G-1	49.8	-3.03	0.87	50 Ω	Linear	Omni	2W
		4G5G-2	36.6	-4.37	0.91				
		4G5G-3	36.4	-4.38	1.03				
		4G5G-4	44.5	-3.52	2.25				
4G/3G Band 12,13,14,17,28,29	698-824	4G5G-1	49.7	-3.04	2.94				
		4G5G-2	39.5	-4.03	2.11				
		4G5G-3	35.4	-4.51	1.97				
		4G5G-4	50.3	-2.99	2.25				
4G/3G/NB-IoT/Cat M Band 5,8,18,19,20,26,27	824-960	4G5G-1	50.8	-2.94	2.64				
		4G5G-2	43.7	-3.60	2.18				
		4G5G-3	37.5	-4.26	2.17				
		4G5G-4	48.0	-3.19	2.25				
5GNR/4G Band 21,32,74,75,76	1427-1518	4G5G-1	27.9	-5.54	1.01				
		4G5G-2	27.8	-5.56	1.21				
		4G5G-3	24.5	-6.10	1.11				
		4G5G-4	26.7	-5.74	0.99				
4G/3G Band 1,2,3,4,9,23,25,35,39,66	1710-2200	4G5G-1	47.7	-3.21	5.15				
		4G5G-2	53.7	-2.70	5.44				
		4G5G-3	51.2	-2.91	5.63				
		4G5G-4	42.5	-3.72	4.65				
4G/3G Band 7,30,38,40,41	2300-2690	4G5G-1	45.2	-3.45	6.16				
		4G5G-2	56.8	-2.45	6.97				
		4G5G-3	52.6	-2.79	6.72				
		4G5G-4	47.0	-3.28	6.15				
5GNR/4G Band 22,42,48,77,78,79	3300-5000	4G5G-1	58.9	-2.30	6.23				
		4G5G-2	58.9	-2.30	6.78				
		4G5G-3	57.3	-2.42	7.74				
		4G5G-4	55.6	-2.55	5.97				
LTE5200/Wi-Fi5800	5150-5925	4G5G-1	48.9	-3.11	5.76				
		4G5G-2	41.2	-3.86	4.93				
		4G5G-3	43.5	-3.62	6.48				
		4G5G-4	40.1	-3.97	4.44				

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-Fi1	53.7	-2.70	6.71	50 Ω	Linear	Omni	2W
		Wi-Fi2	50.0	-3.01	6.09				
Wi-Fi - 5GHz	5150-5850	Wi-Fi1	44.3	-3.54	6.82				
		Wi-Fi2	46.8	-3.30	5.42				
*Tested with 0.3m of Cable on a 30x30cm Ground Plane									

Mechanical	
Dimensions	350mm * 70mm * 39 mm
Weight	0.84kg
Material	ASA
Connector	GNSS: SMA(M), 5G/4G(1-4): SMA(M), Wi-Fi(1-2): RP-SMA
Cable	GNSS:2m of RG-174, 5G/4G(1-4) Wi-Fi(1-2):2m of TGC-302

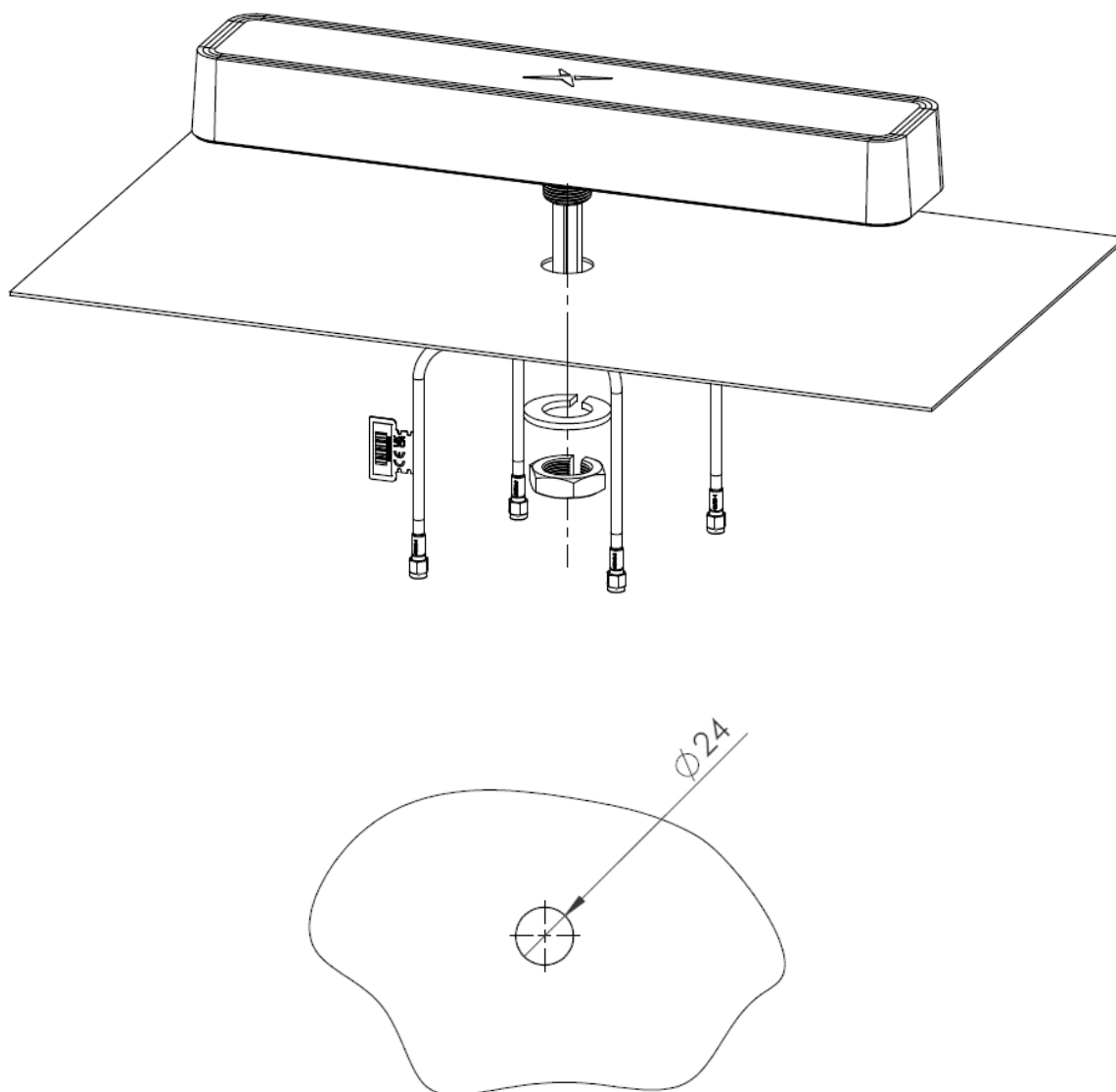
Environmental	
Waterproof Rating	IP69K
Temperature Range	-40°C to + 85°C
Humidity	Non-condensing 65°C 95% RH

3. Mechanical Drawing



	Name	Material	Finish	Qty
1	Top Housing	ASA	Black	1
2	Metal Stem	Zinc Alloy	Ni Plated	1
3	Nut_M22x1.5P	Steel	Ni-Zn Plated	1
4	Washer_M22	Steel	Ni-Zn Plated	1
5	Double Side Adhesive	3M 3448HK + CR4305.2t	Black	1
6	CE, WEEE and UKCA mark Label	PEPA	White	1
7	Barcode Label	PET	White	1
8	RG174 Coaxial Cable	PVC	Black	1
9	TGC-302 Cable	PVC	Black	6
10	Heat Shrink Tube(4G/5G-1)	PE	Red Tube/White Text	1
11	Heat Shrink Tube(4G/5G-2)	PE	Red Tube/White Text	1
12	Heat Shrink Tube(4G/5G-3)	PE	Red Tube/White Text	1
13	Heat Shrink Tube(4G/5G-4)	PE	Red Tube/White Text	1
14	Heat Shrink Tube (WiFi1)	PE	Yellow tube/ Black text	1
15	Heat Shrink Tube (WiFi2)	PE	Yellow Tube/Black Text	1
16	Heat Shrink Tube(GNSS)	PE	Blue Tube/White Text	1
17	Grommet_MA8957/MA8955_TGC302*6_RG174*1	DJSilicon, NE-7150, HS=50A +/- 5A	Black	1
18	SMA(M) ST_RG174	Brass	Au Plated	1
19	SMA(M) ST_TGC302	Brass	Au Plated	4
20	RP-SMA(M)_TGC302	Brass	Au Plated	2

4. Installation Guide



RECOMMENDED HOLE SIZE FOR MOUNTING
MAX PANEL THICKNESS = 6MM

5. Packaging

1pc MA8007.A.001 per PE Bag
Weight: 0.84Kg



10pcs MA8007.A.001 per carton
Dimensions 370 x 370 x 300mm
Weight: 9.6Kg



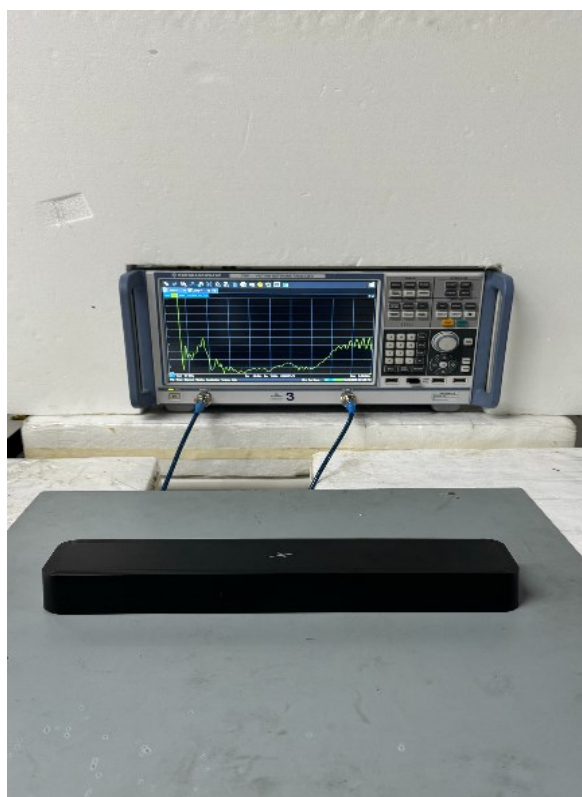
6. Antenna Characteristics

6.1 Test Setup

AUT

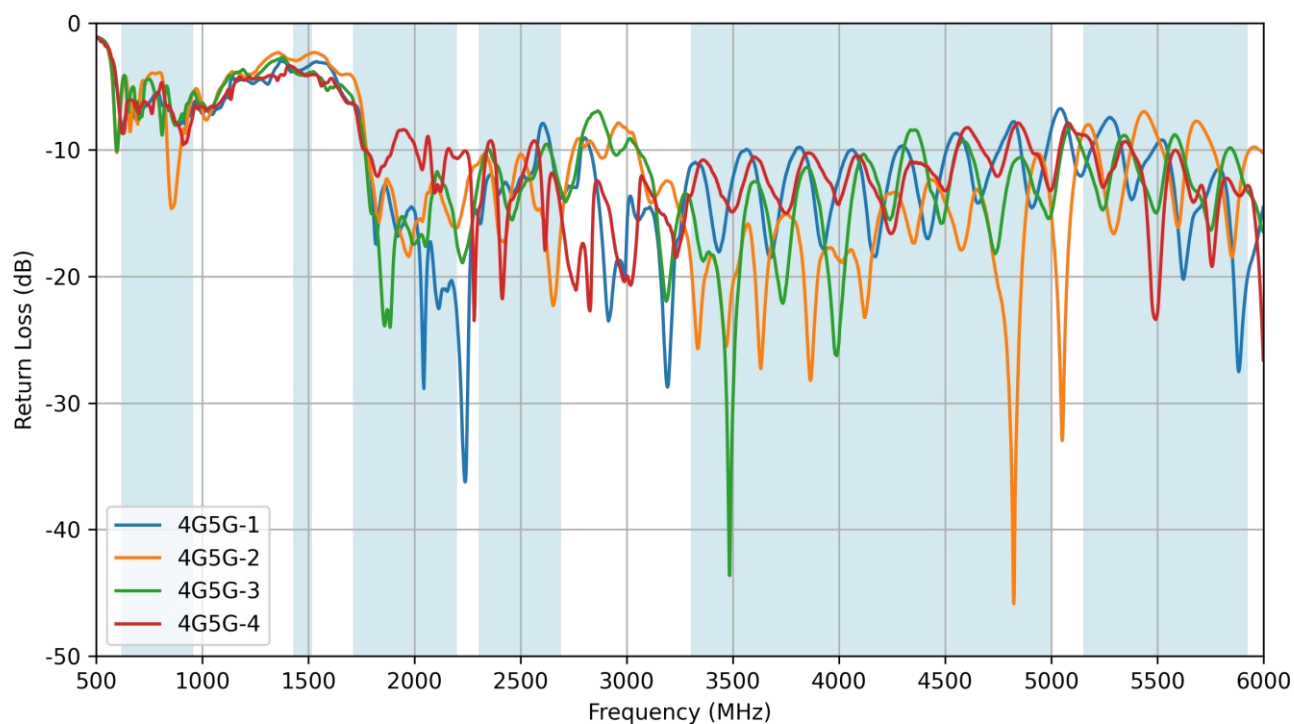


Vector Network Analyzer

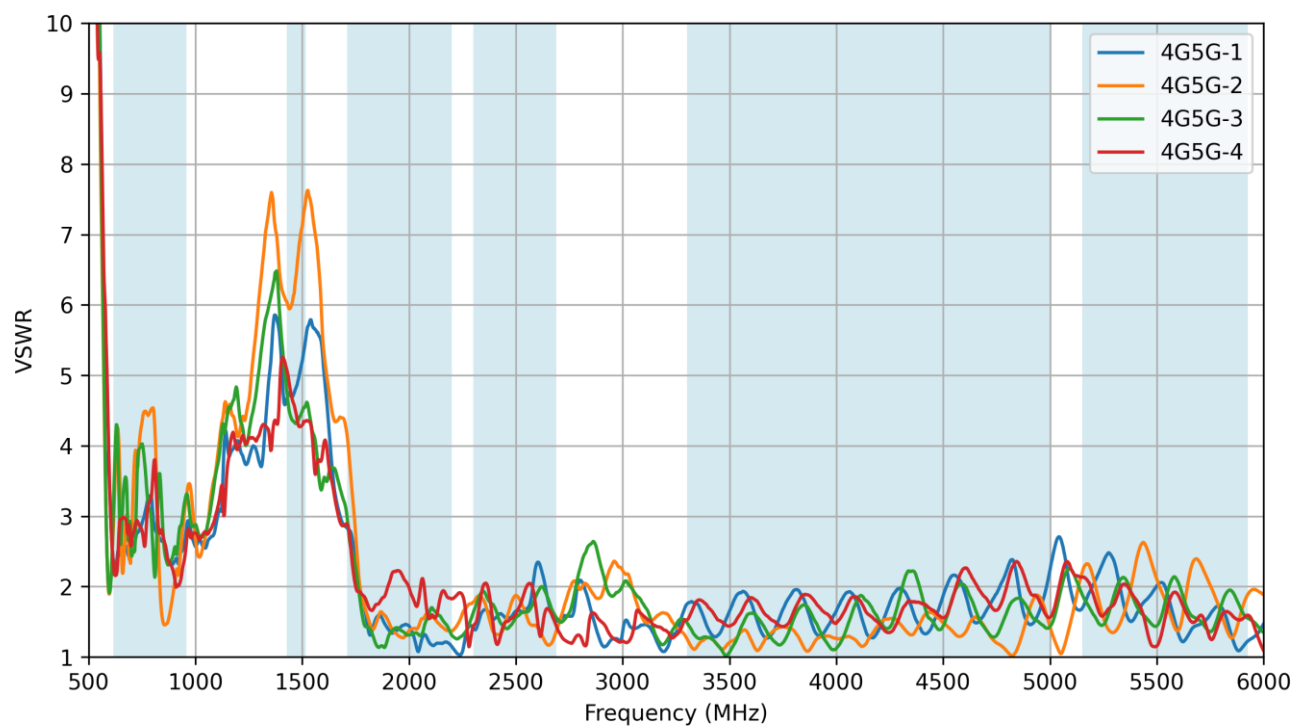


VNA Test Set up

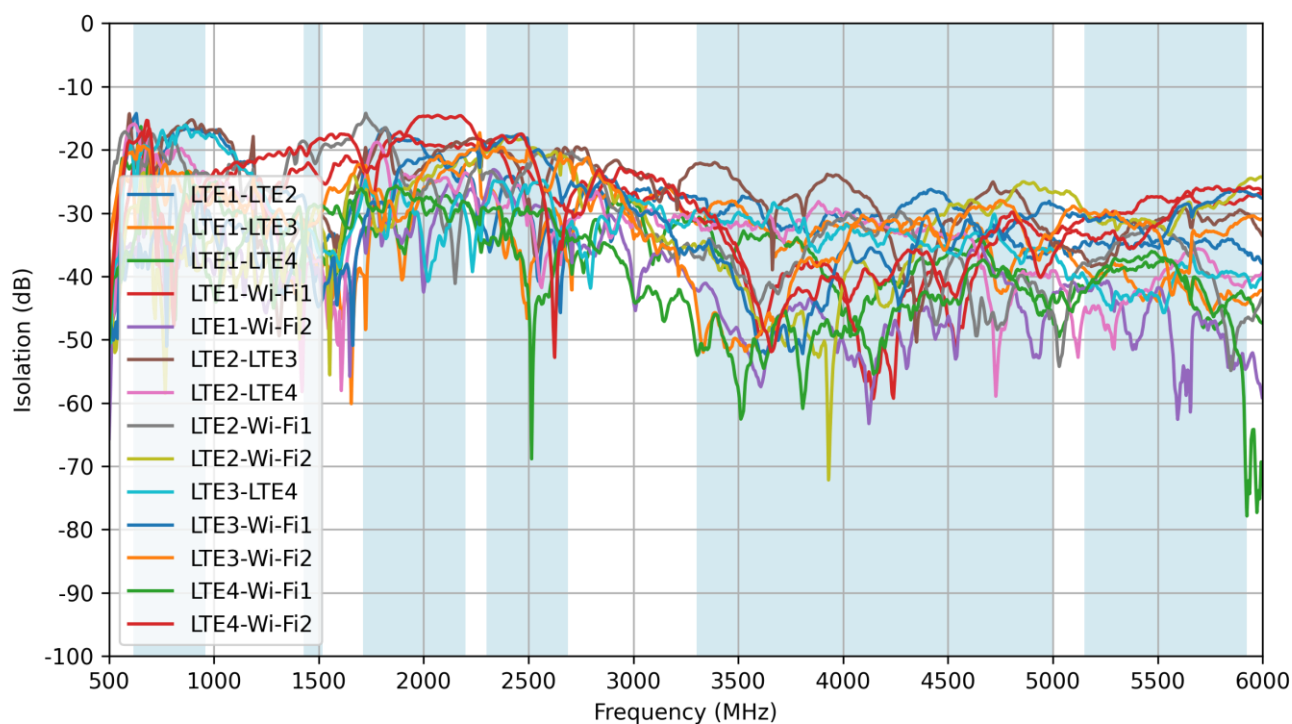
6.2 LTE - Return Loss



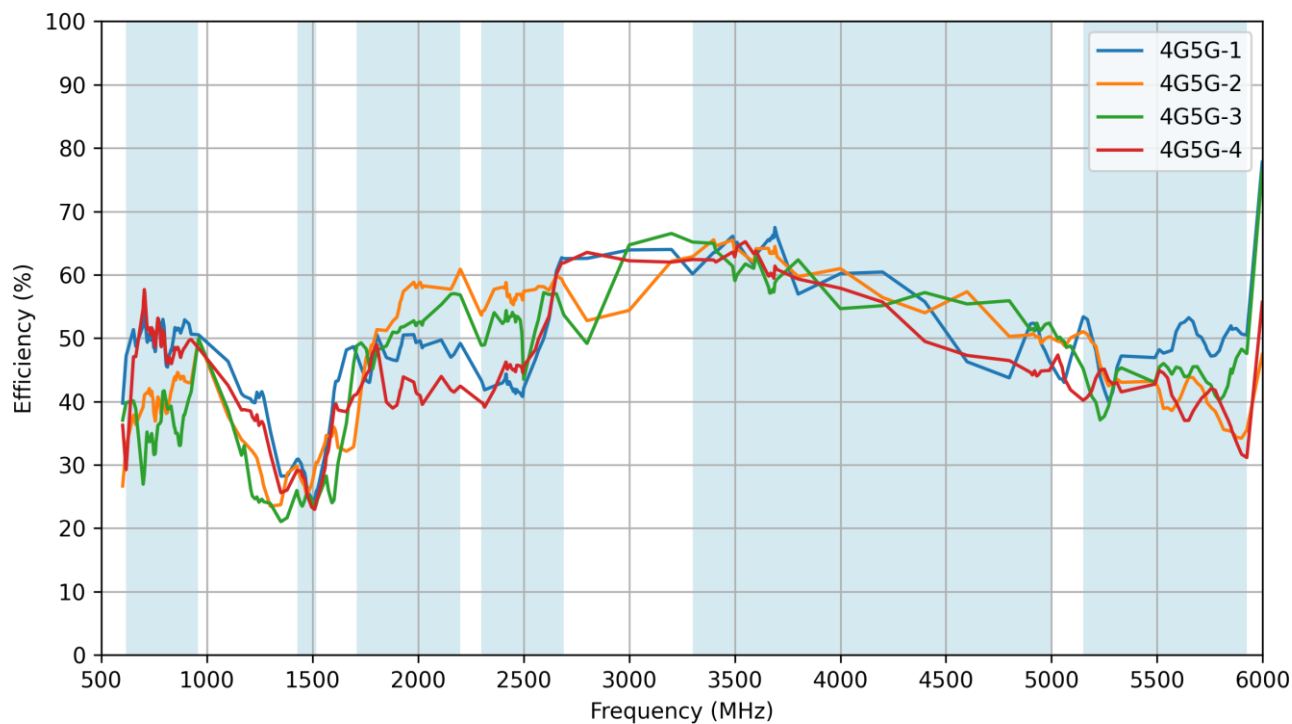
6.3 LTE - VSWR



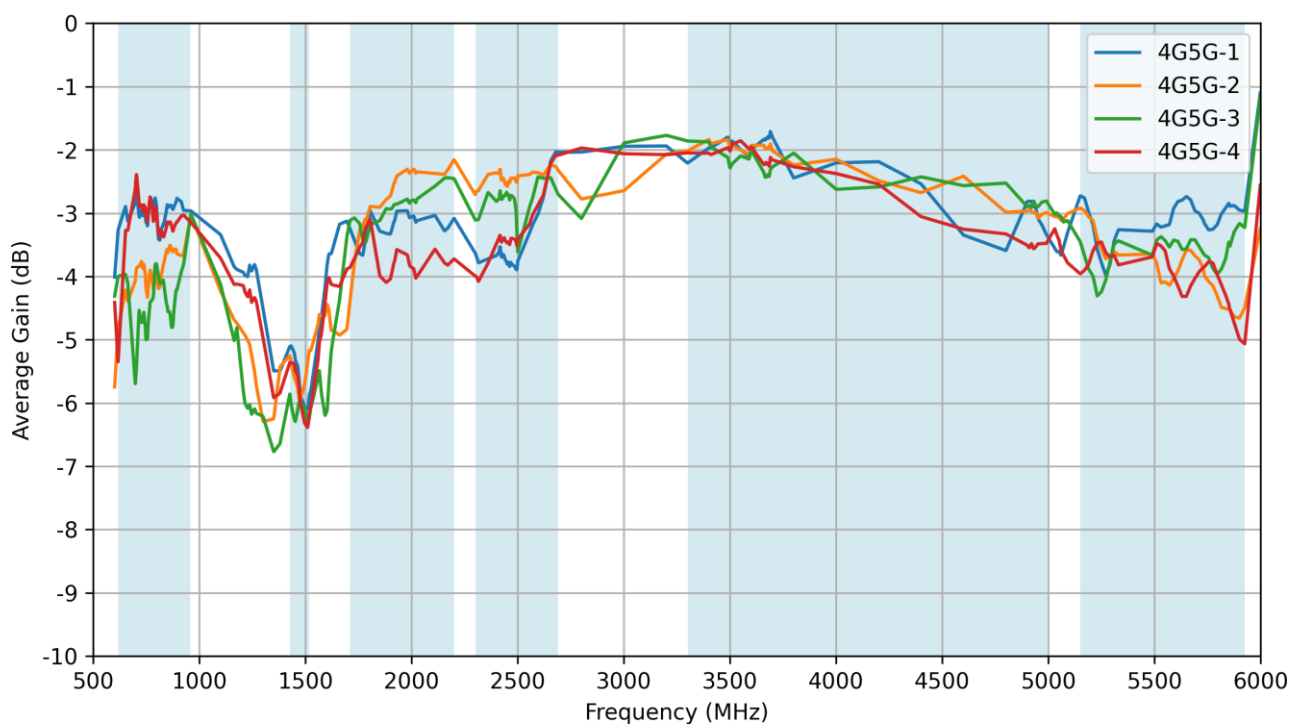
6.4 LTE - Isolation



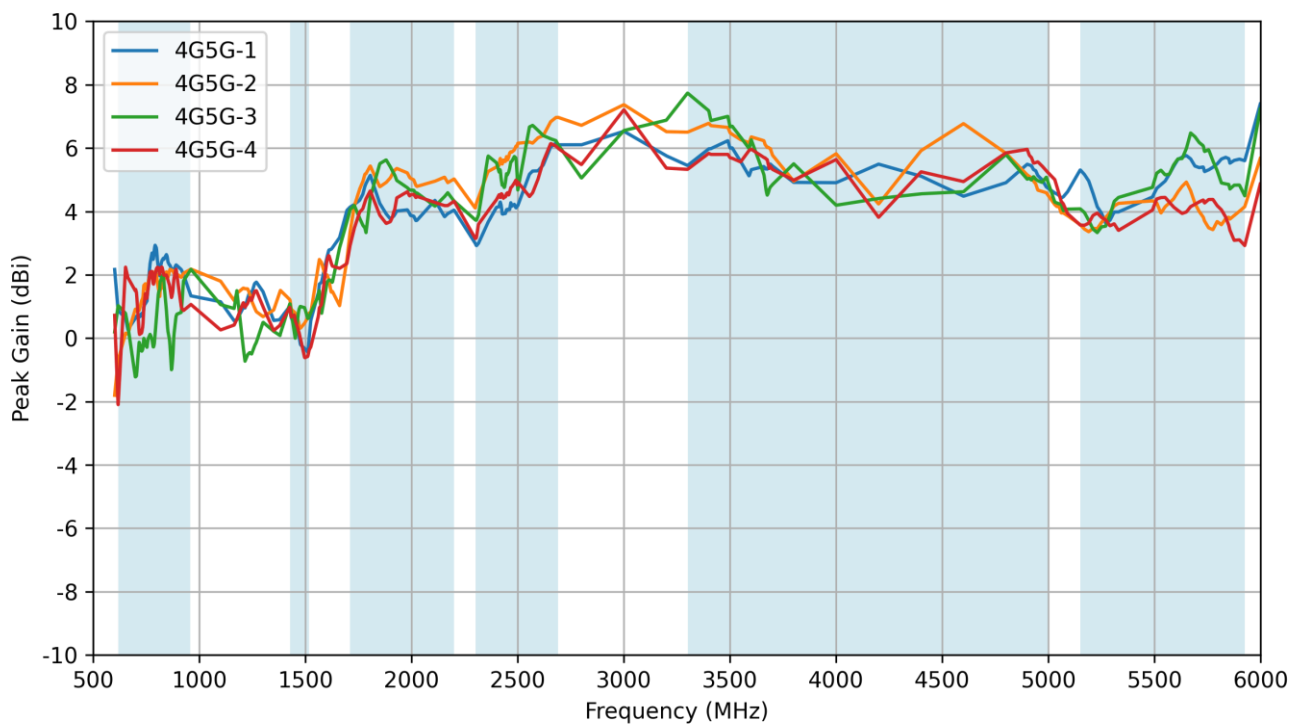
6.5 LTE - Efficiency



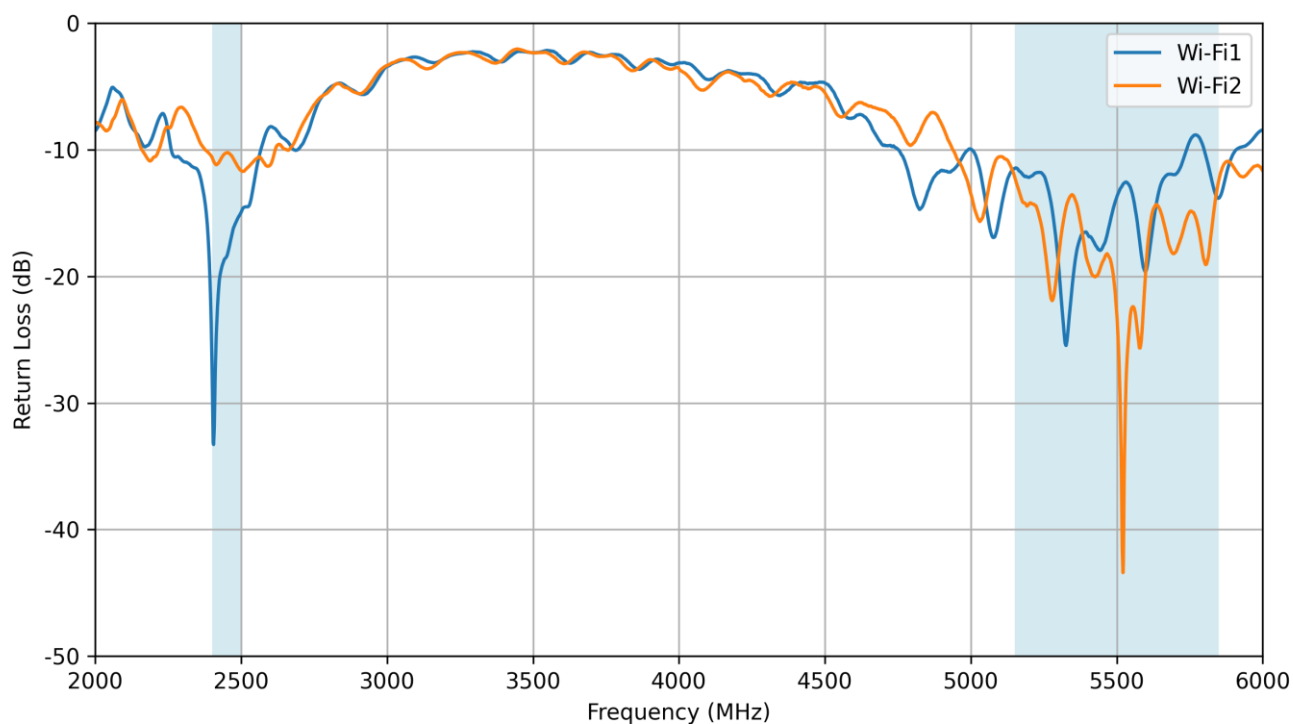
6.6 LTE - Average Gain



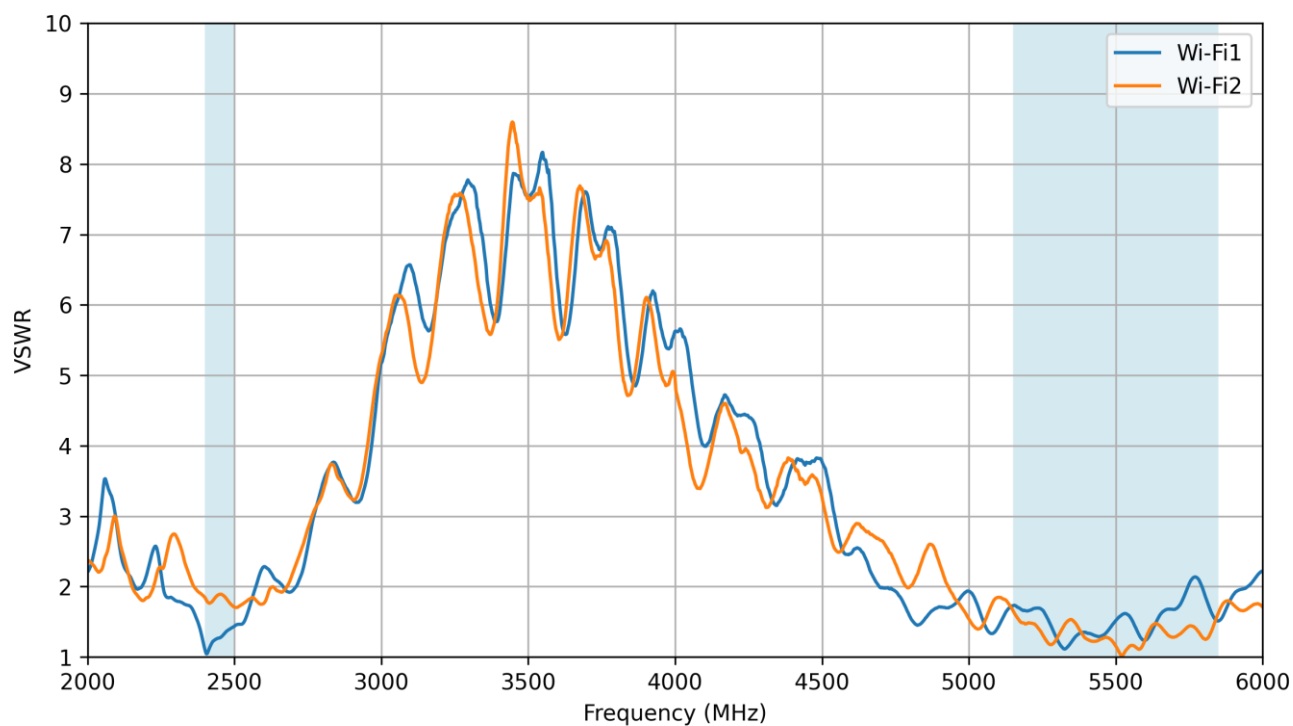
6.7 LTE - Peak Gain



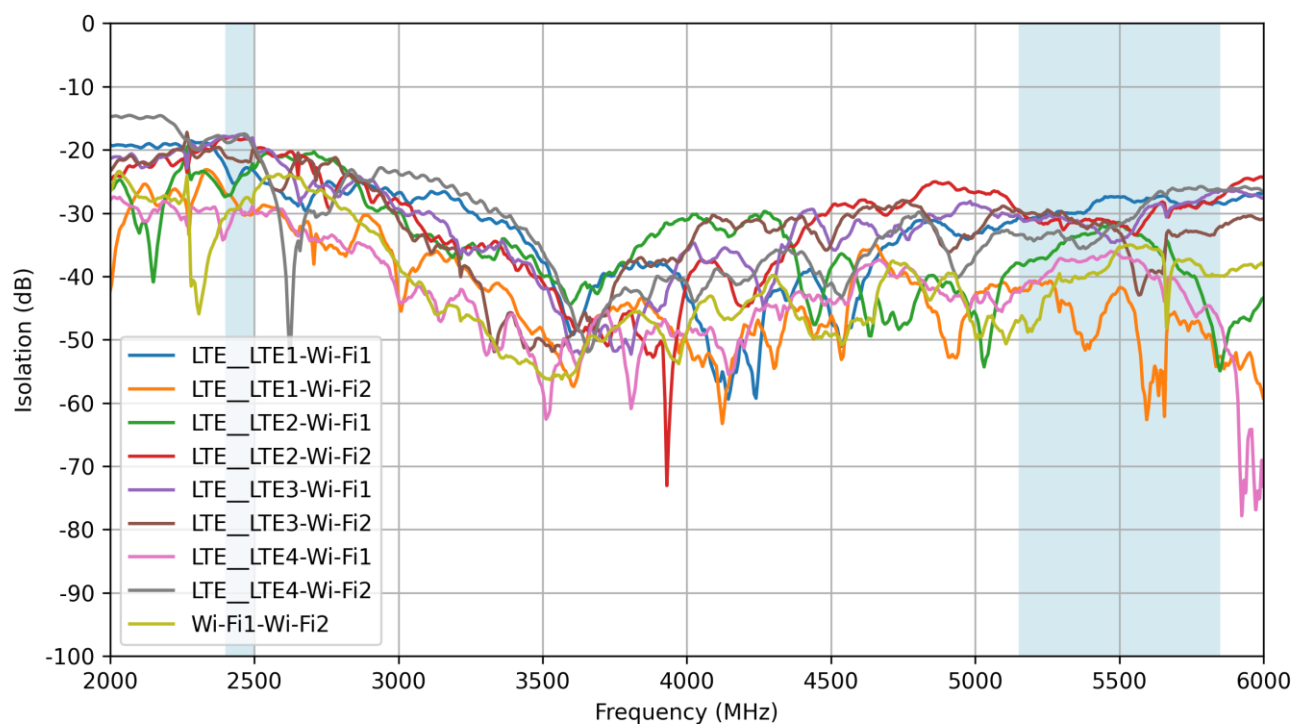
6.8 Wi-Fi - Return Loss



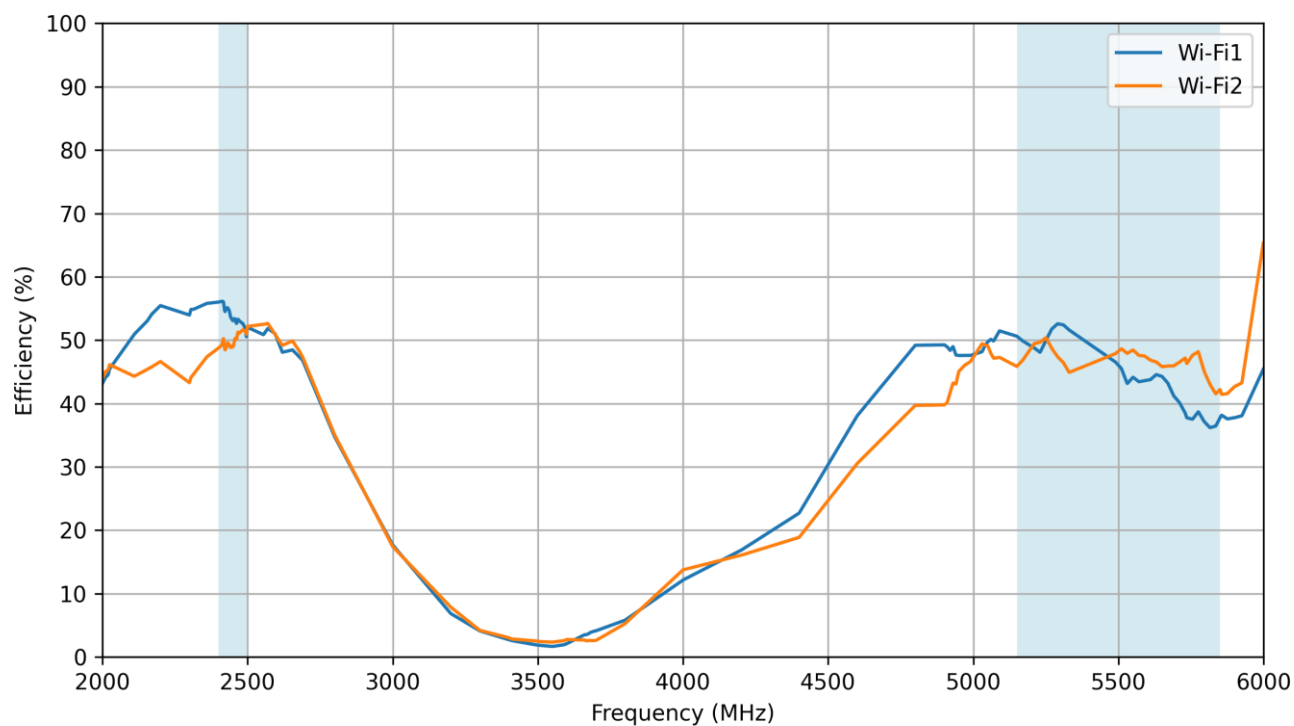
6.9 Wi-Fi - VSWR



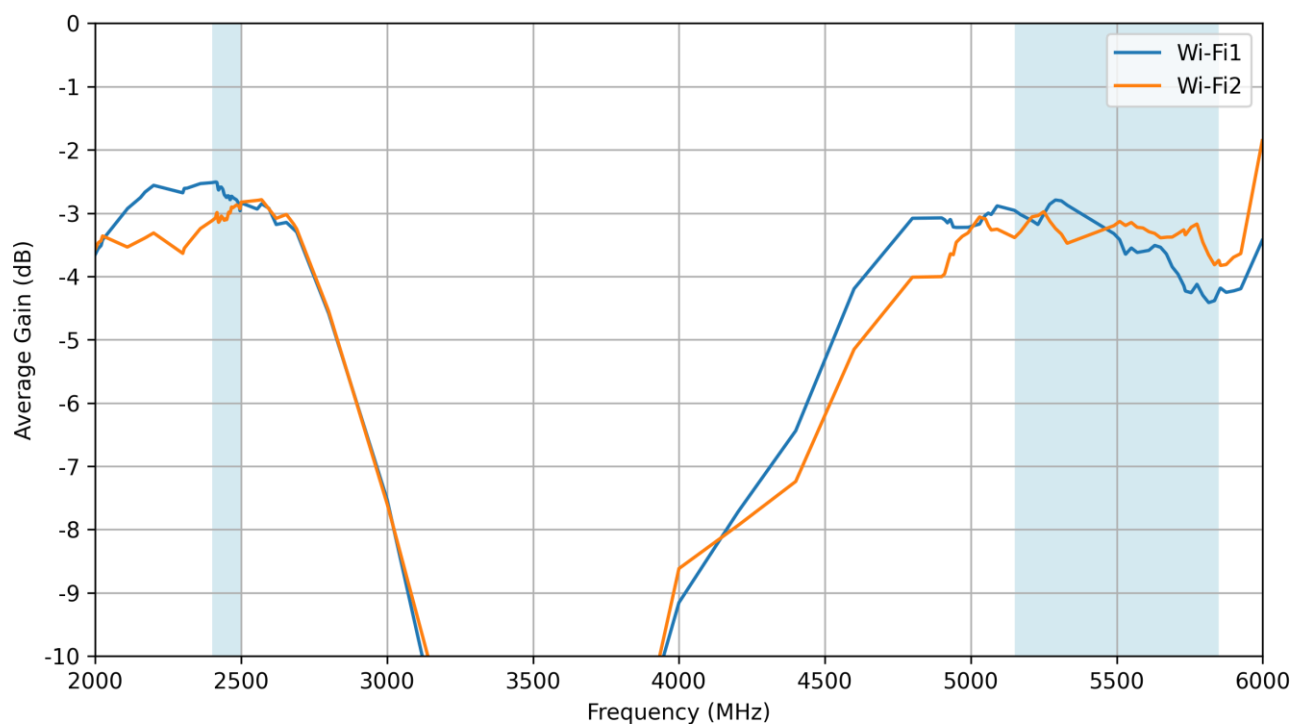
6.10 Wi-Fi - Isolation



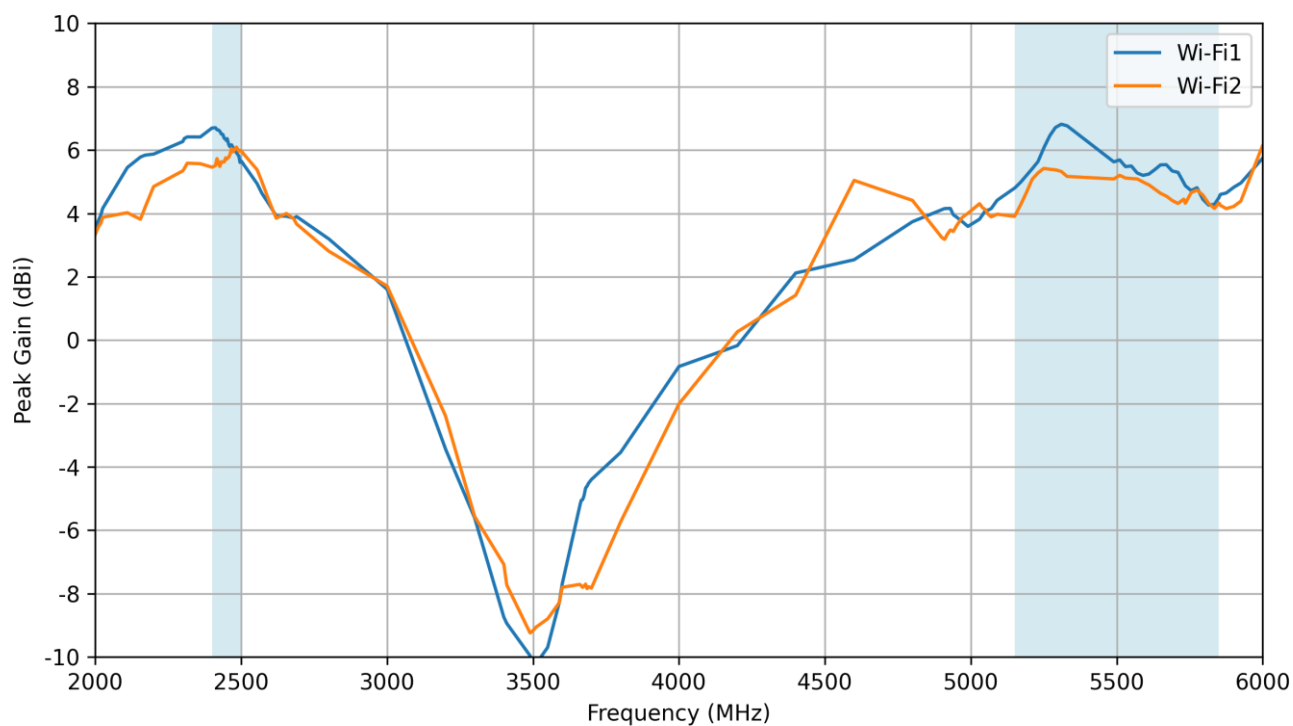
6.11 Wi-Fi - Efficiency



6.12 Wi-Fi - Average Gain

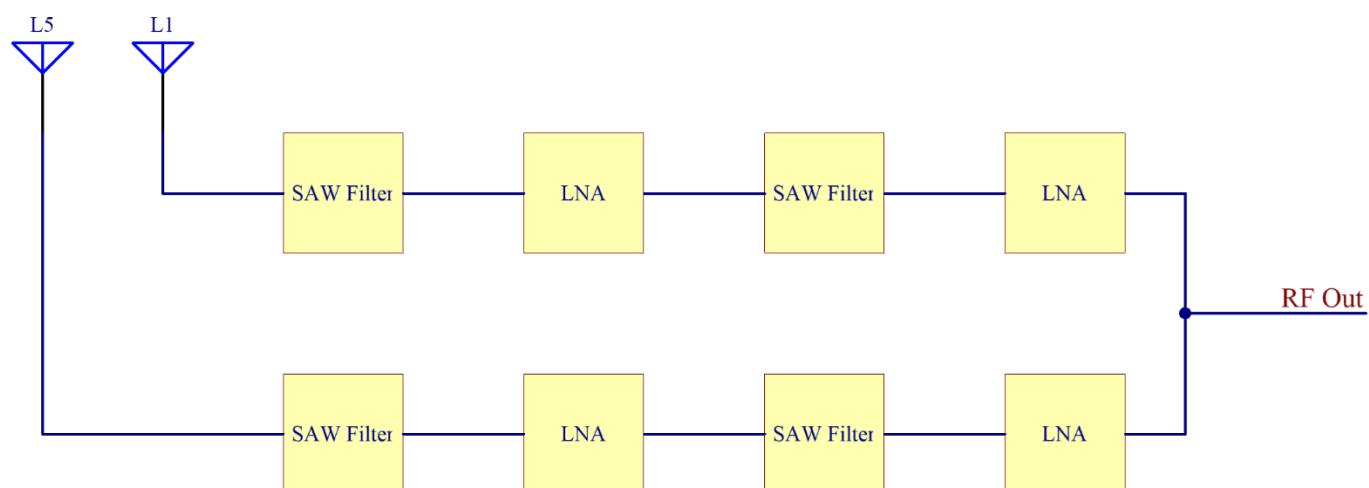


6.13 Wi-Fi - Peak Gain

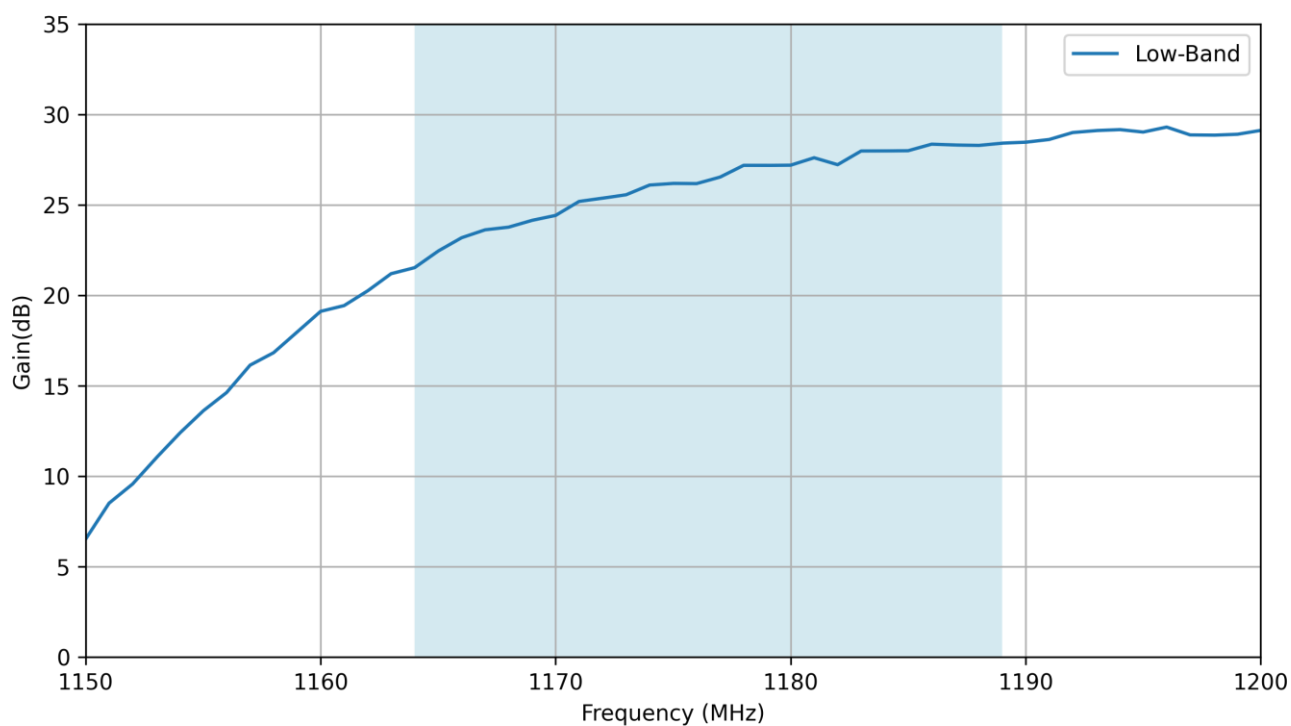


7. LNA Characteristics

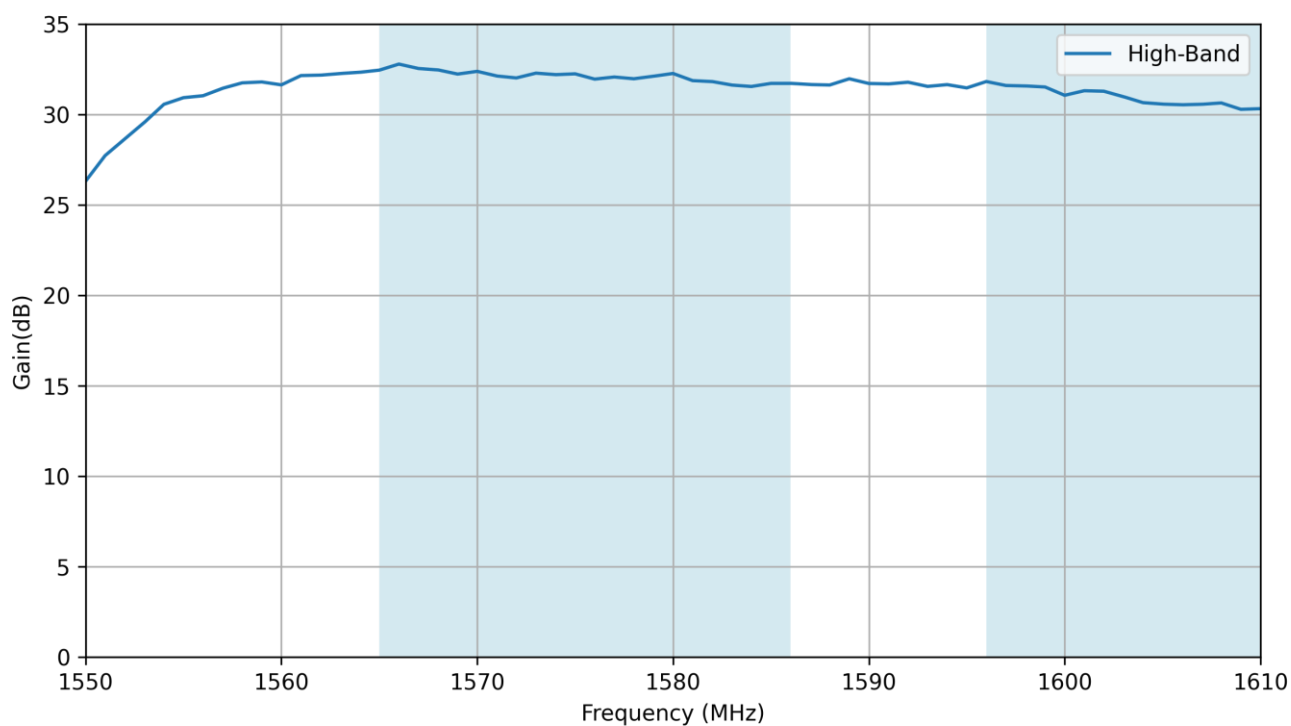
7.1 Block Diagram



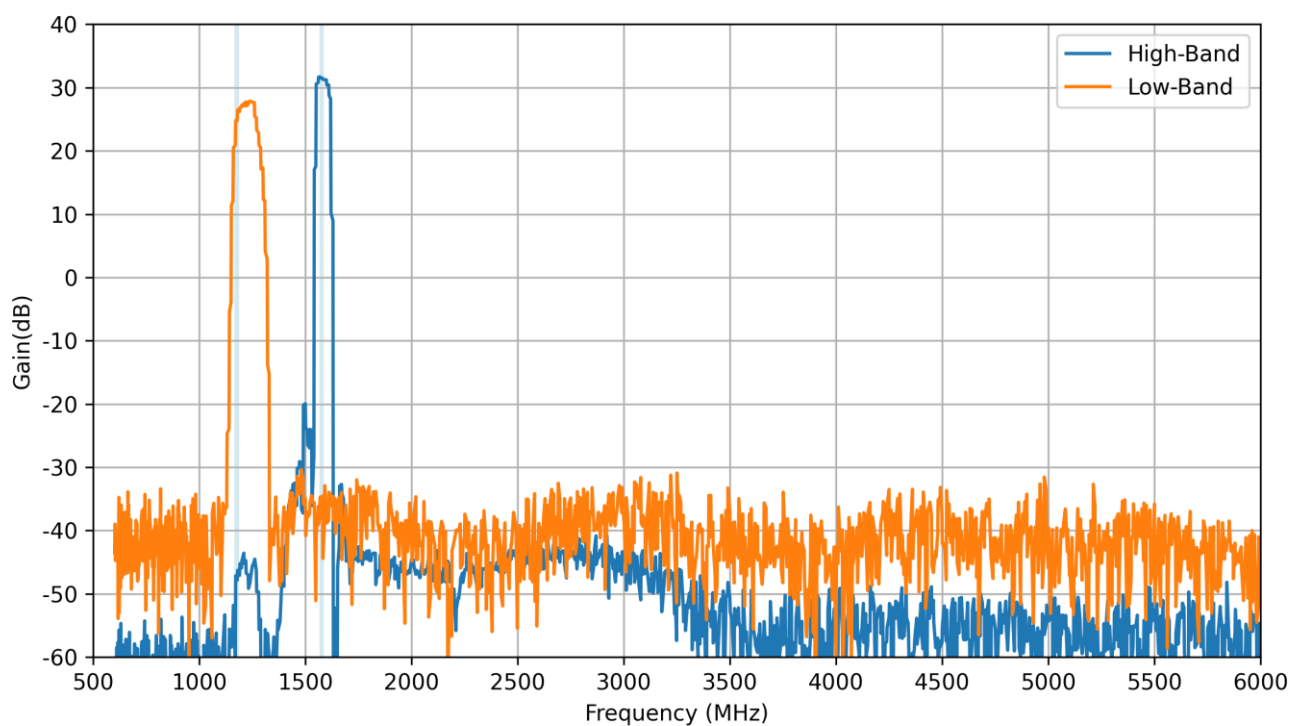
7.2 Gain – Low-Band



7.3 Gain – High-Band

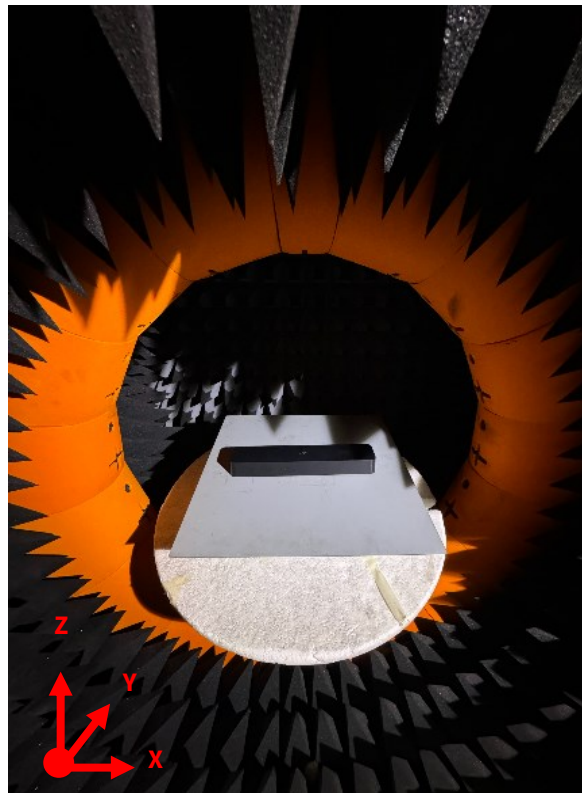
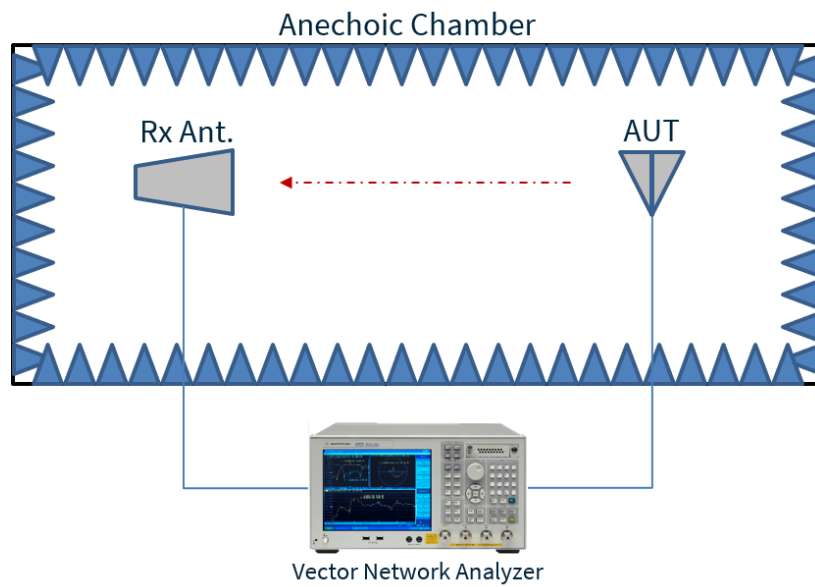


7.4 Out Of Band Attenuation



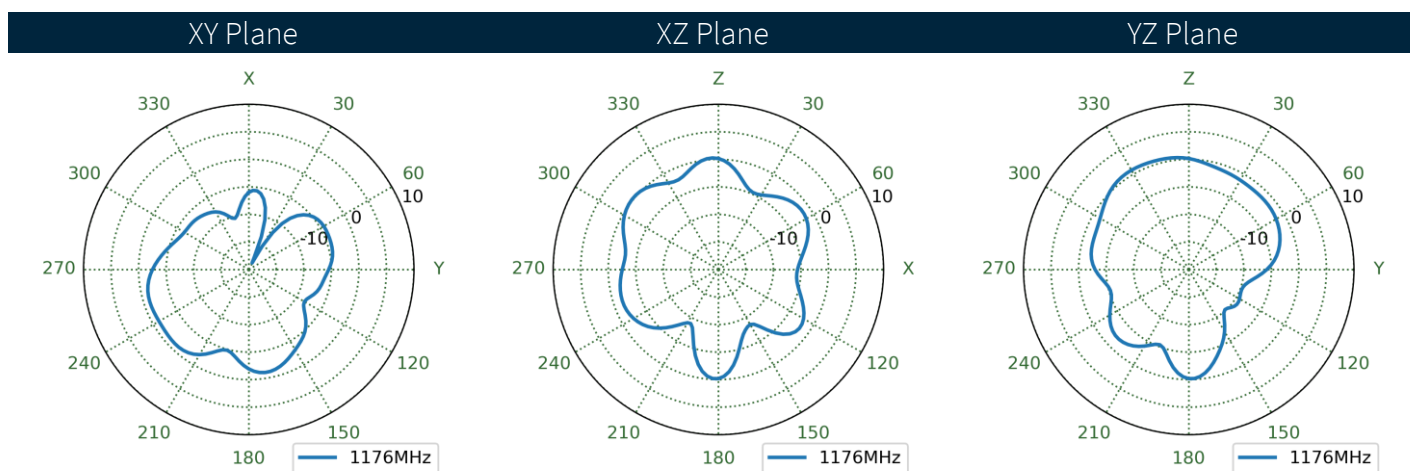
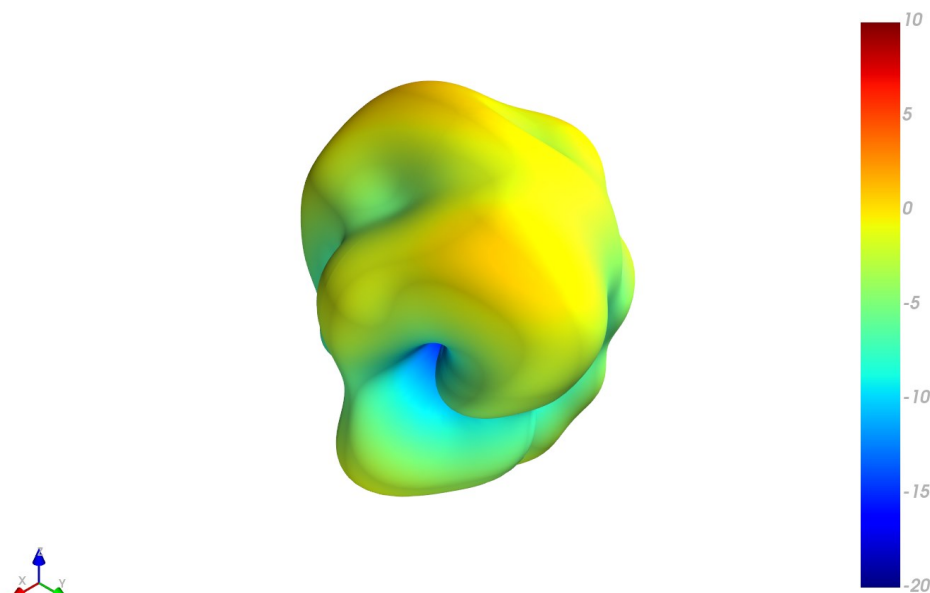
8. Radiation Patterns

8.1 Test Setup

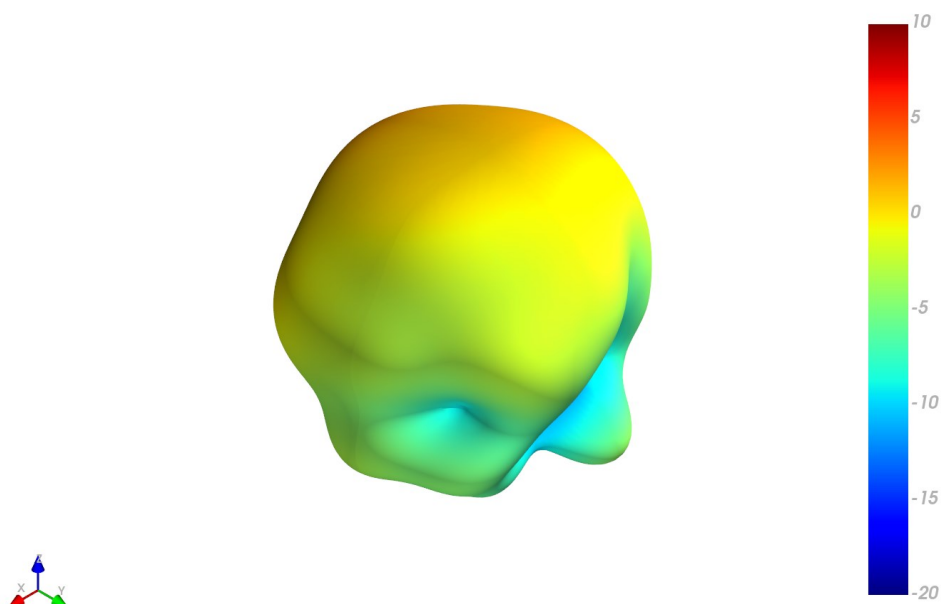


Chamber Test Set up

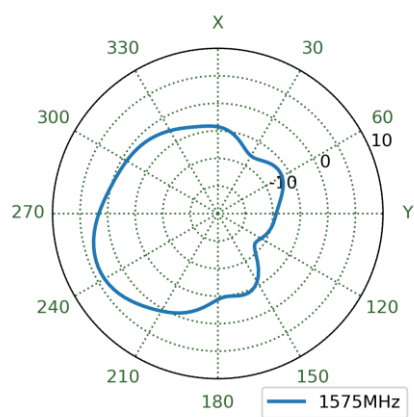
8.2 GNSS - Patterns at 1176 MHz



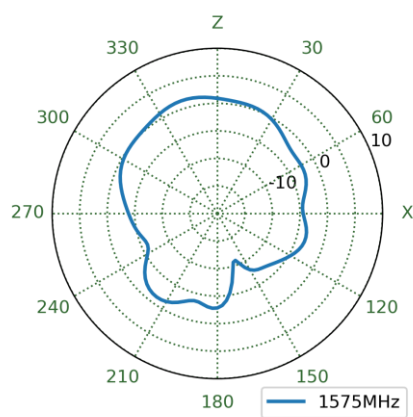
8.3 GNSS - Patterns at 1575 MHz



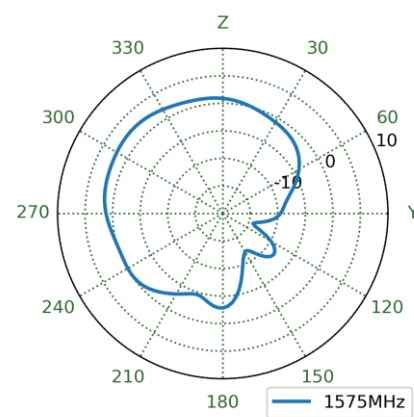
XY Plane



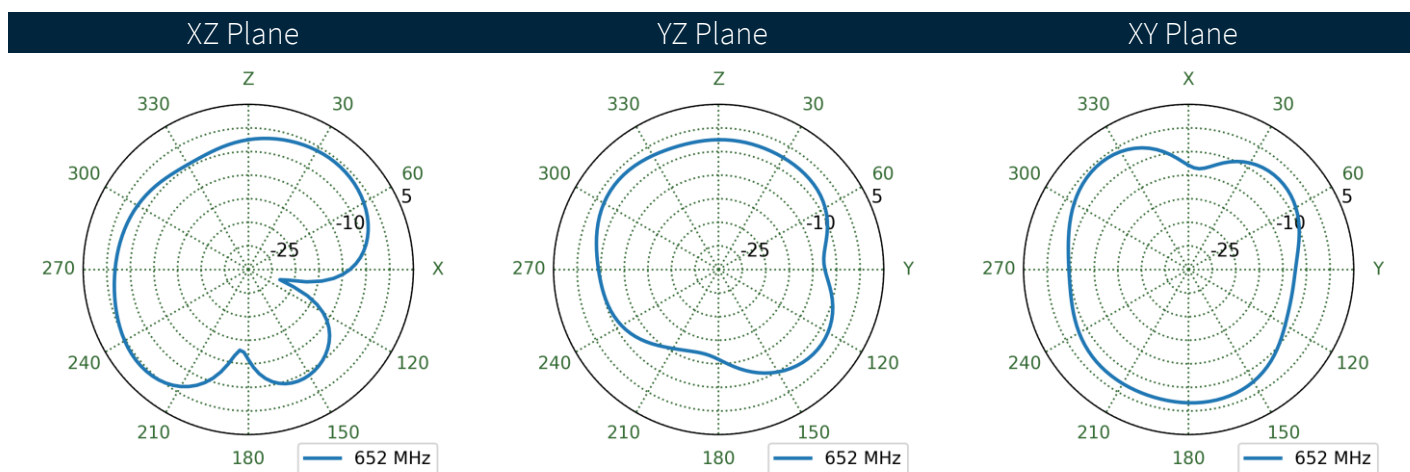
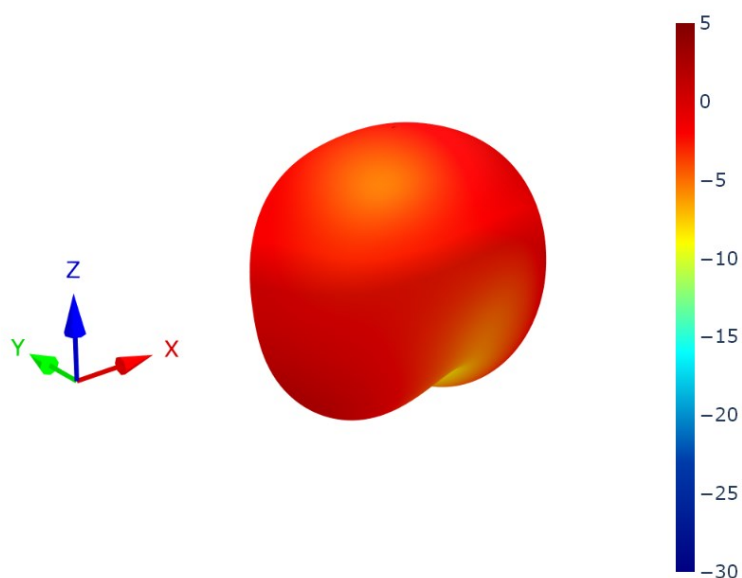
XZ Plane



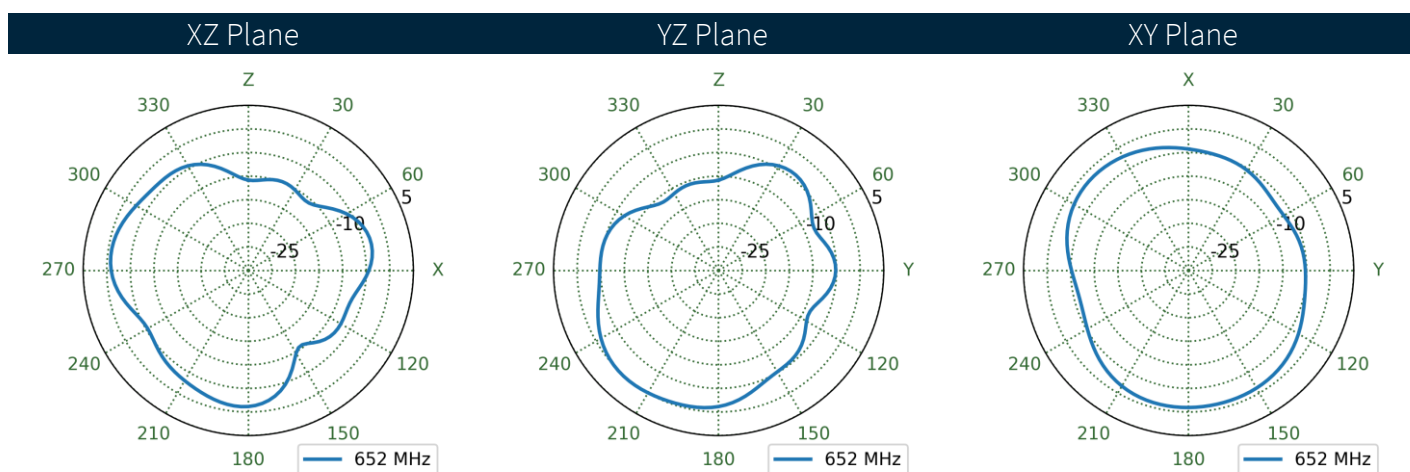
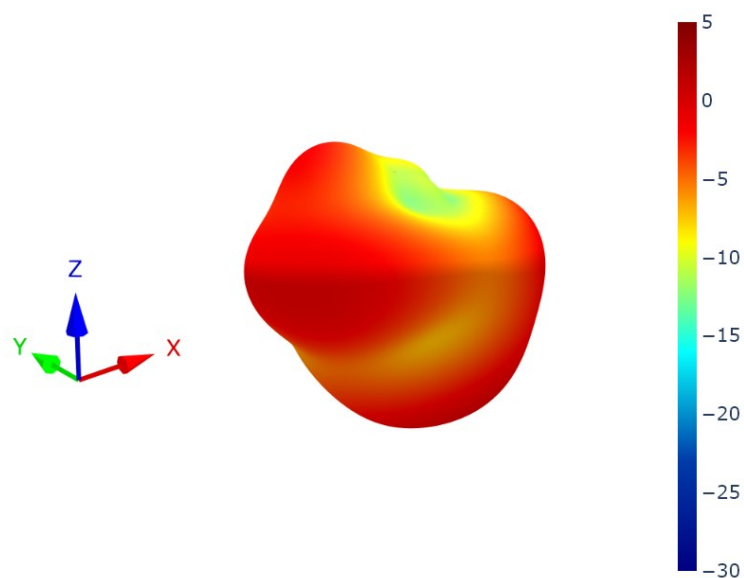
YZ Plane



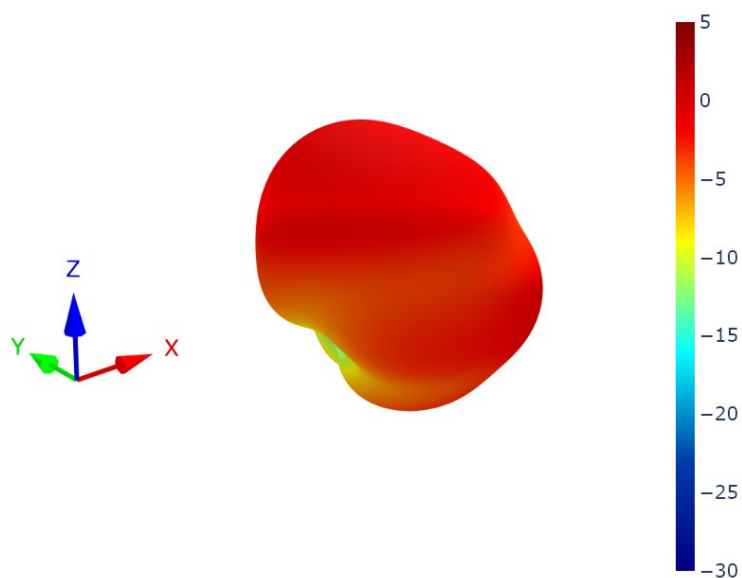
8.4 4G/5G-1 Patterns at 650 MHz



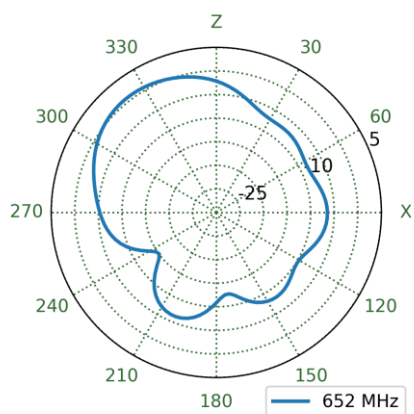
8.5 4G/5G-2 Patterns at 650 MHz



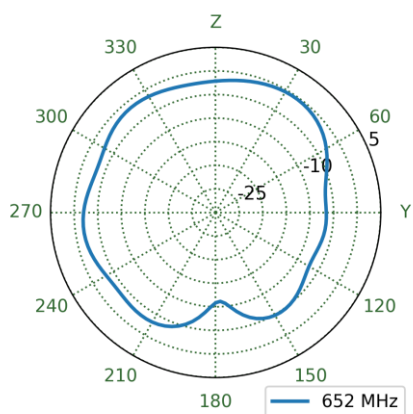
8.6 4G/5G-3 Patterns at 650 MHz



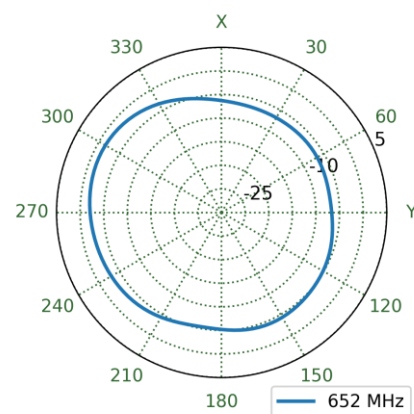
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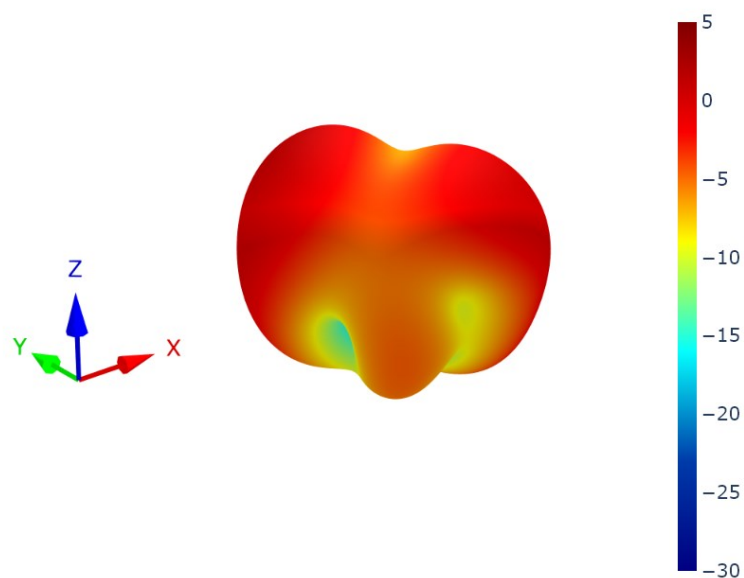
YZ Plane



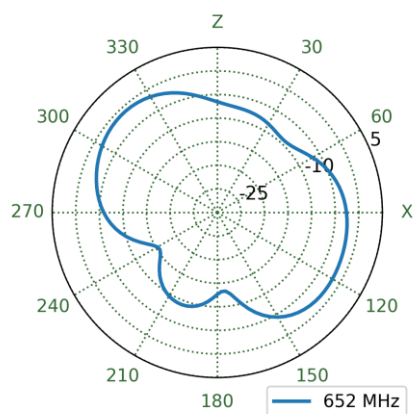
XY Plane



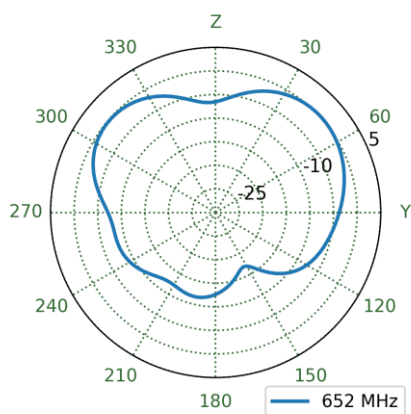
8.7 4G/5G-4 Patterns at 650 MHz



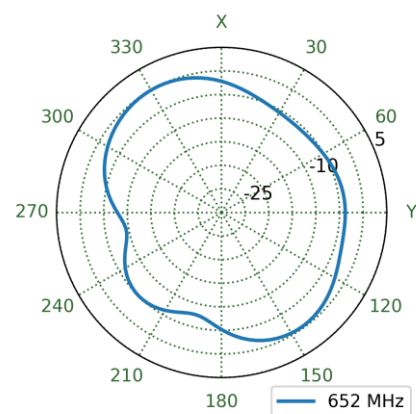
XZ Plane



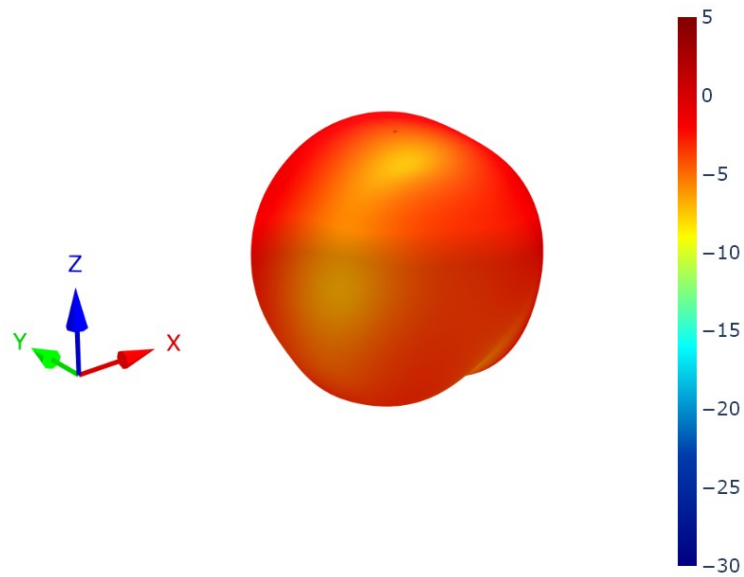
YZ Plane



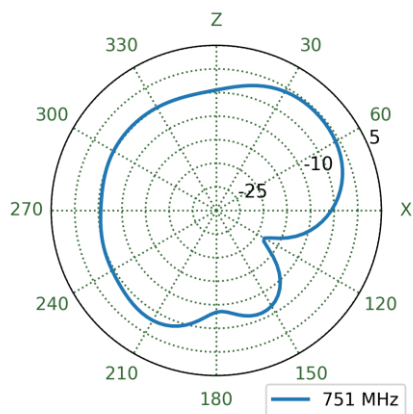
XY Plane



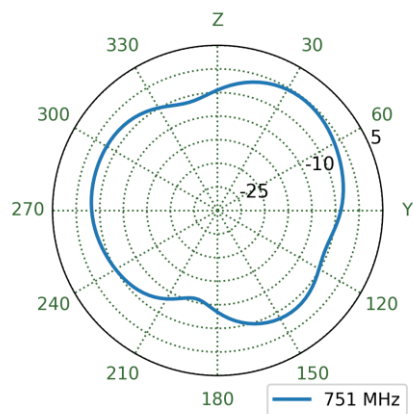
8.8 4G/5G-1 Patterns at 750 MHz



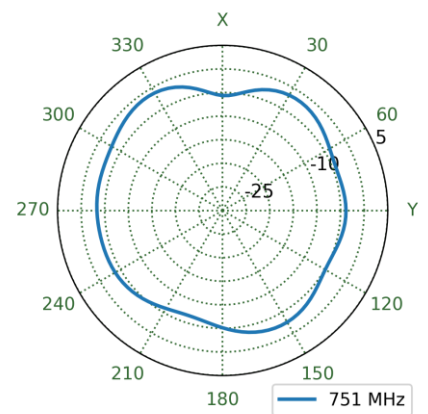
XZ Plane



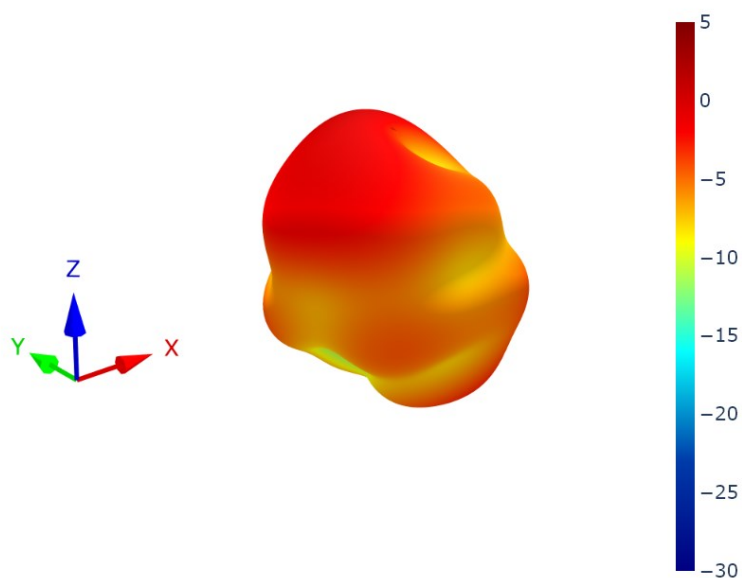
YZ Plane



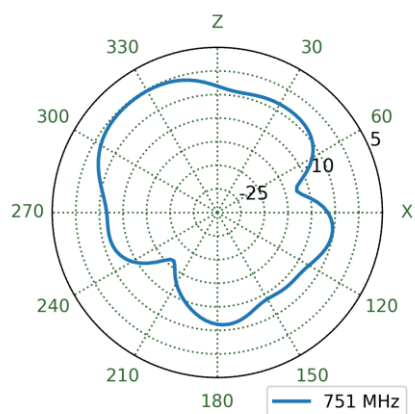
XY Plane



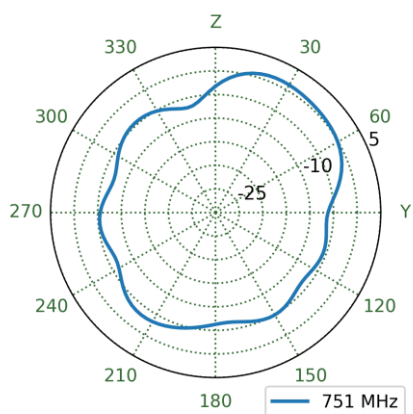
8.9 4G/5G-2 Patterns at 750 MHz



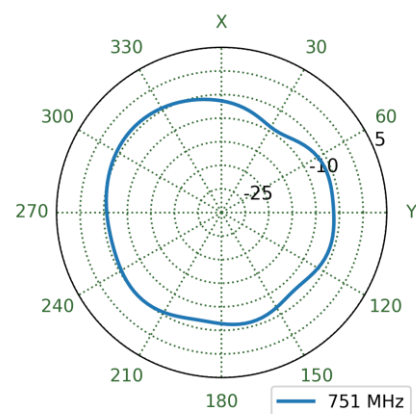
XZ Plane



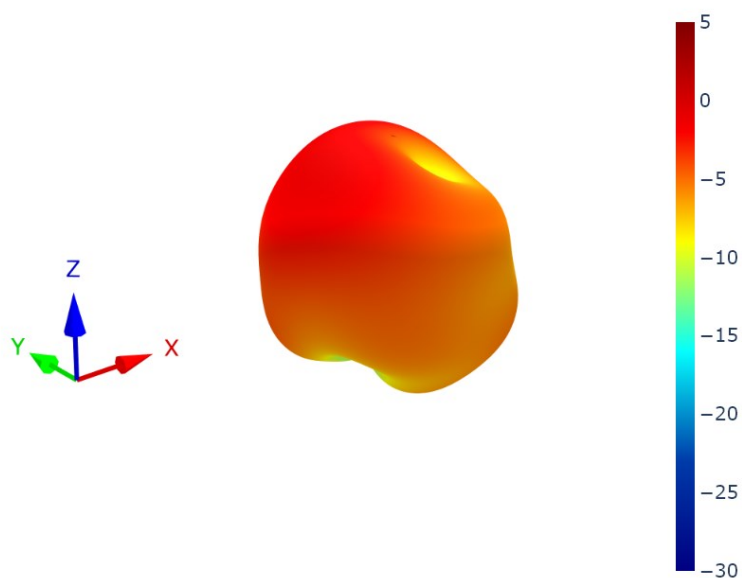
YZ Plane



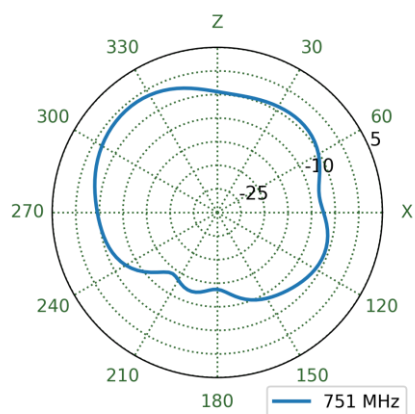
XY Plane



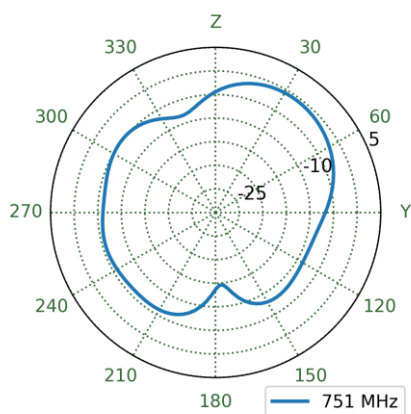
8.10 4G/5G-3 Patterns at 750 MHz



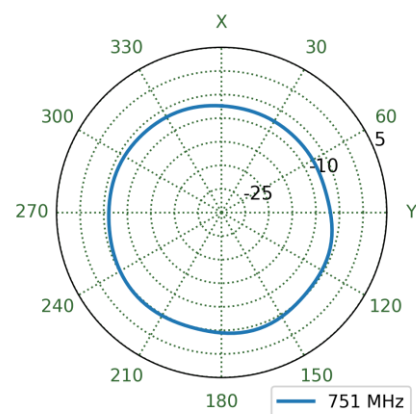
XZ Plane



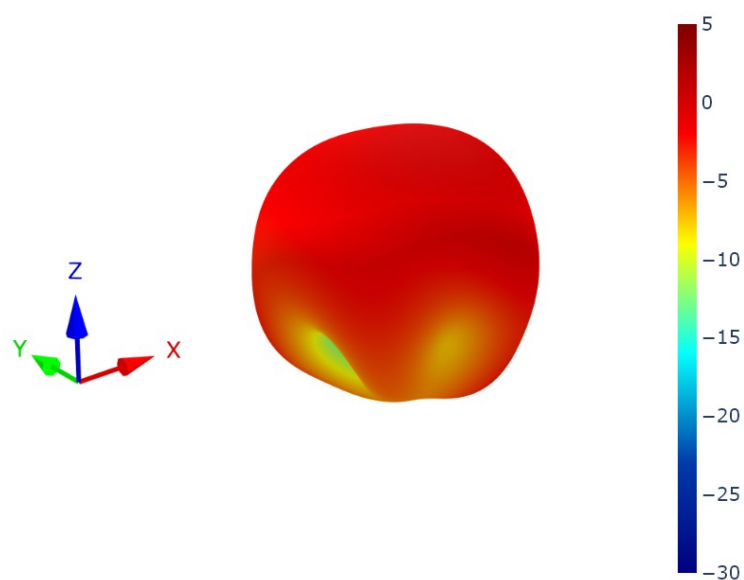
YZ Plane



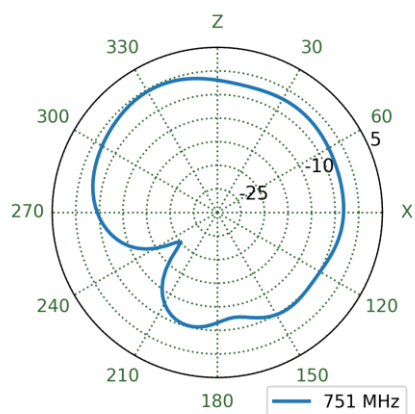
XY Plane



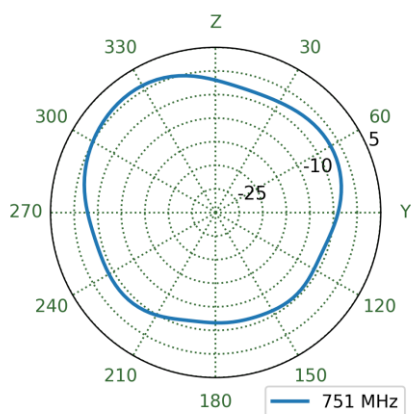
8.11 4G/5G-4 Patterns at 750 MHz



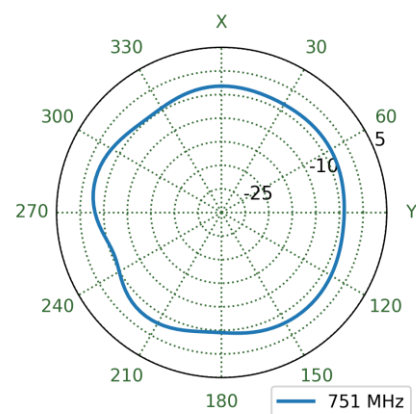
XZ Plane



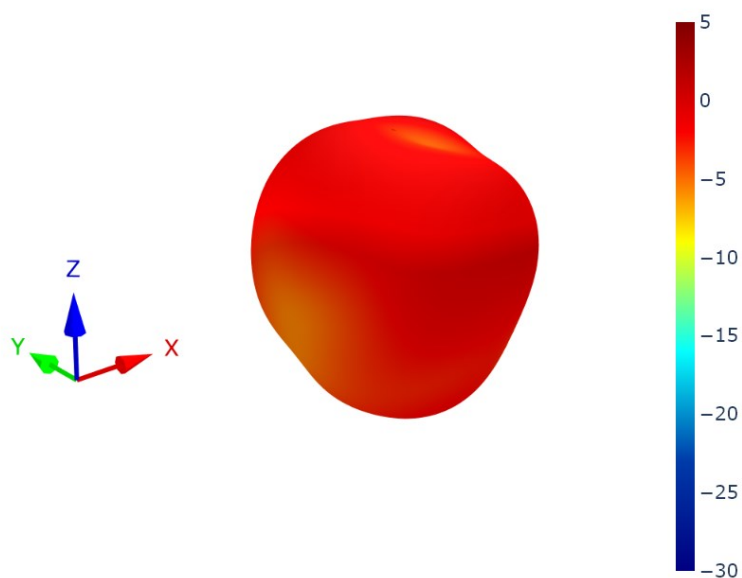
YZ Plane



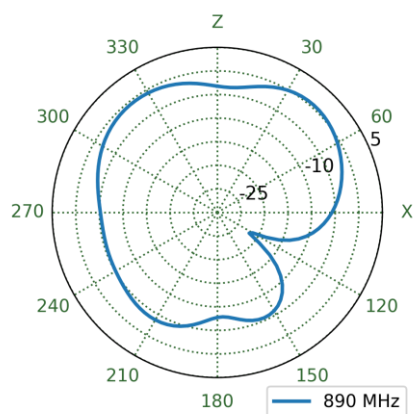
XY Plane



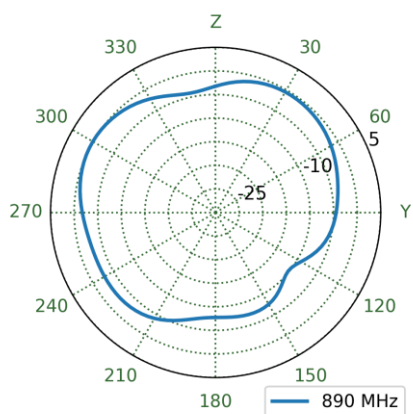
8.12 4G/5G-1 Patterns at 890 MHz



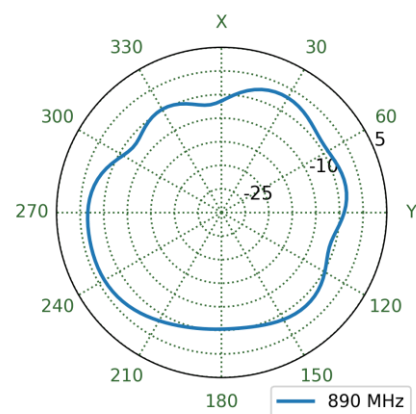
XZ Plane



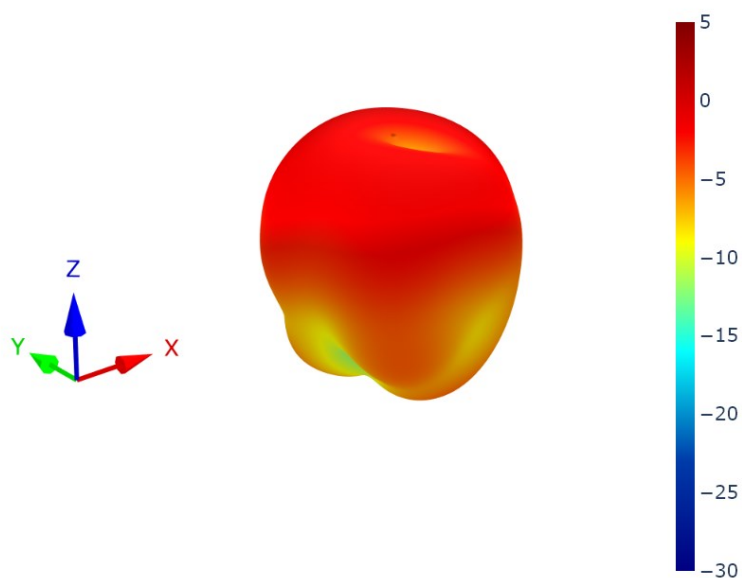
YZ Plane



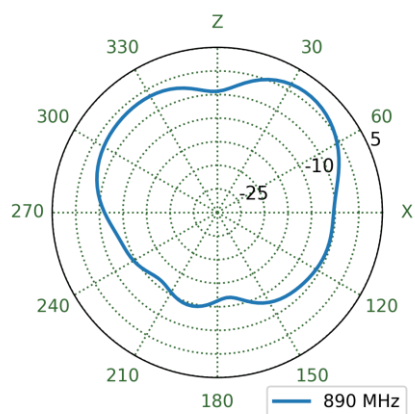
XY Plane



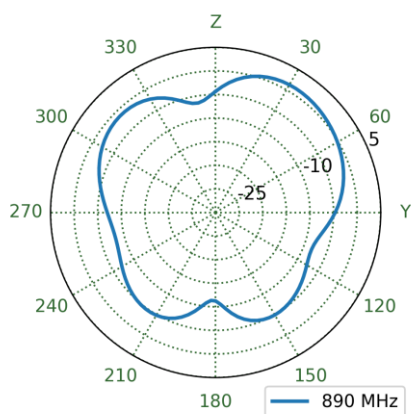
8.13 4G/5G-2 Patterns at 890 MHz



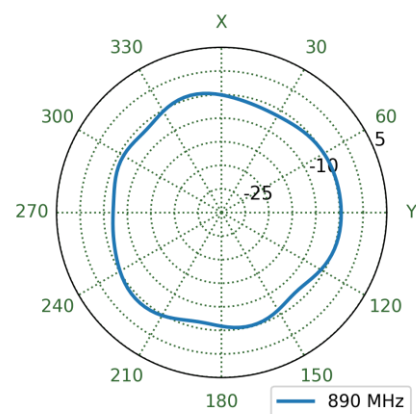
XZ Plane



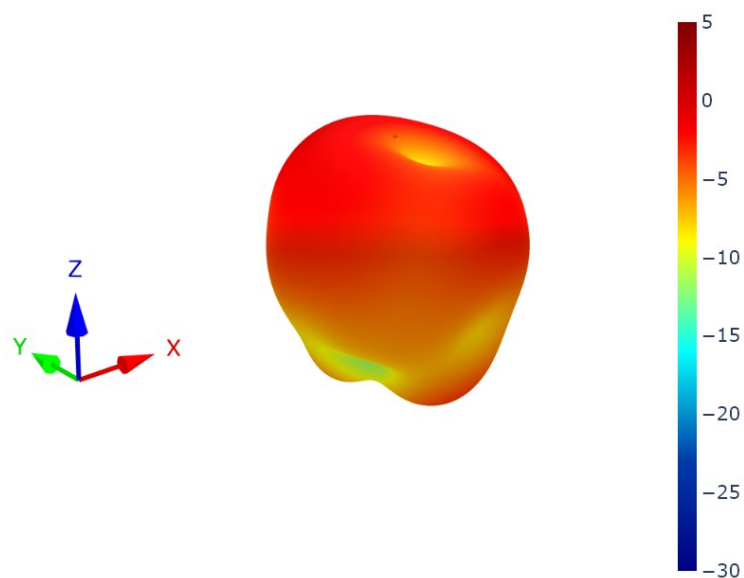
YZ Plane



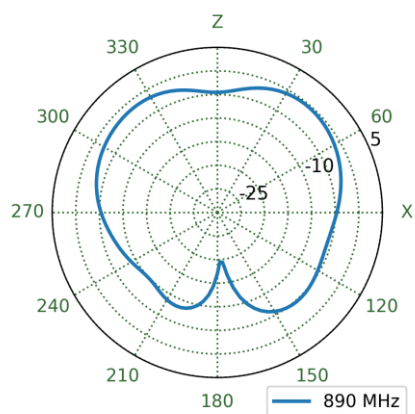
XY Plane



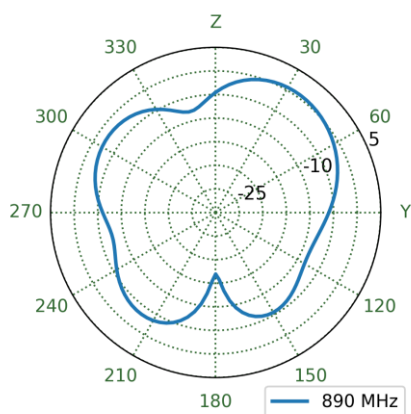
8.14 4G/5G-3 Patterns at 890 MHz



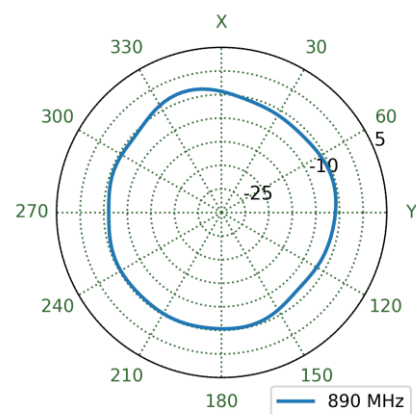
XZ Plane



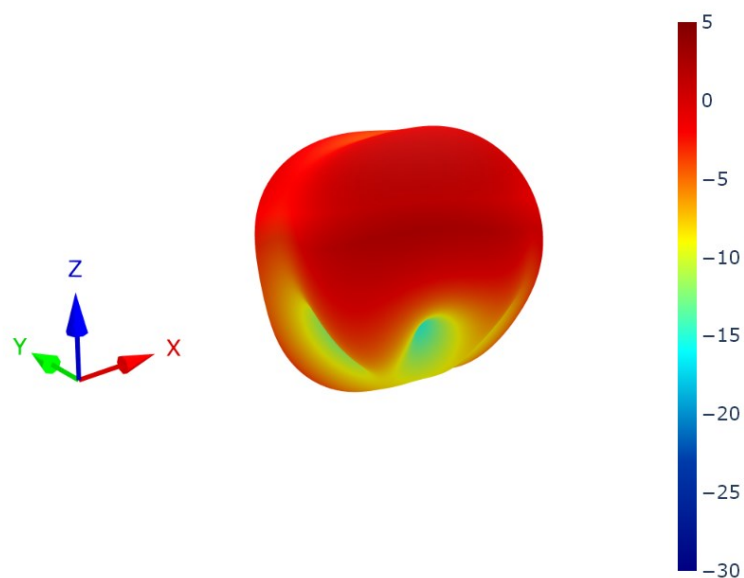
YZ Plane



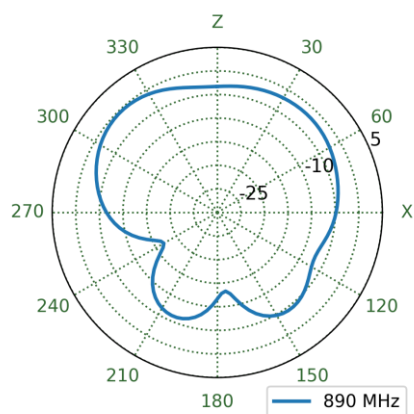
XY Plane



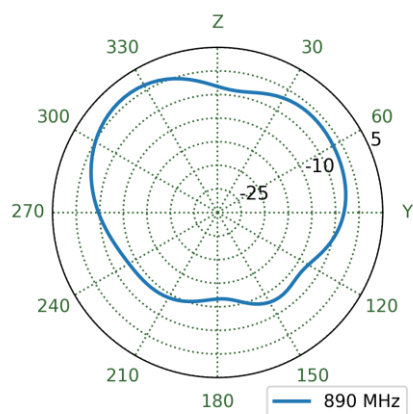
8.15 4G/5G-4 Patterns at 890 MHz



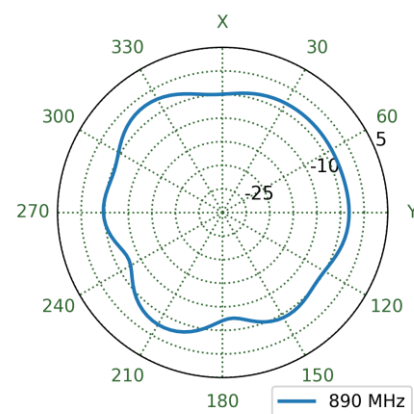
XZ Plane



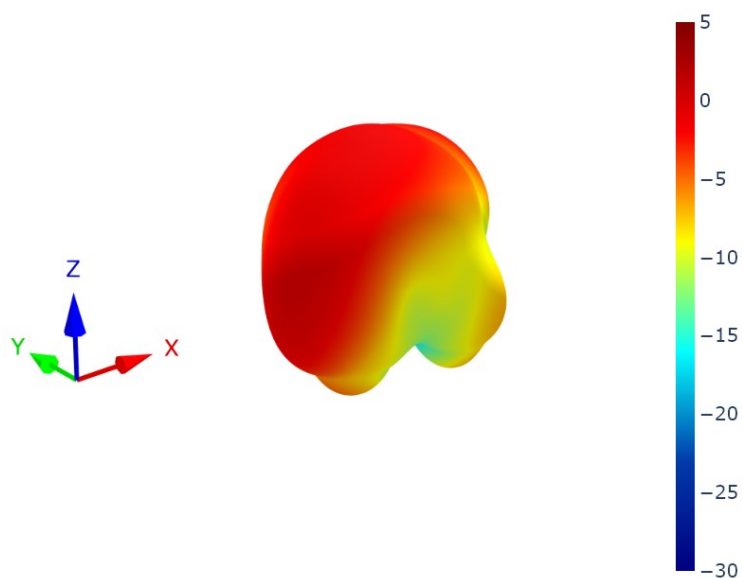
YZ Plane



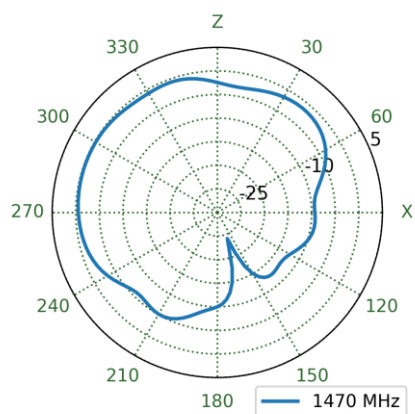
XY Plane



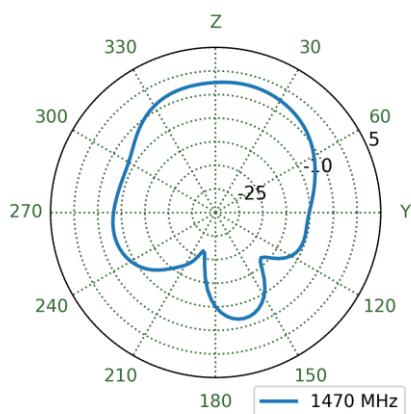
8.16 4G/5G-1 Patterns at 1470 MHz



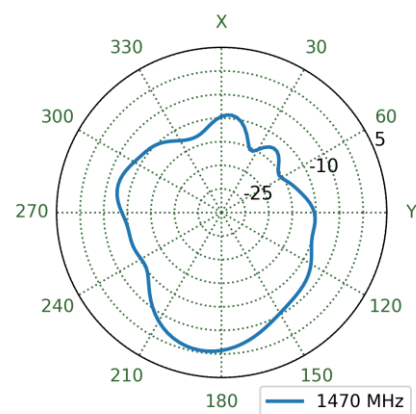
XZ Plane



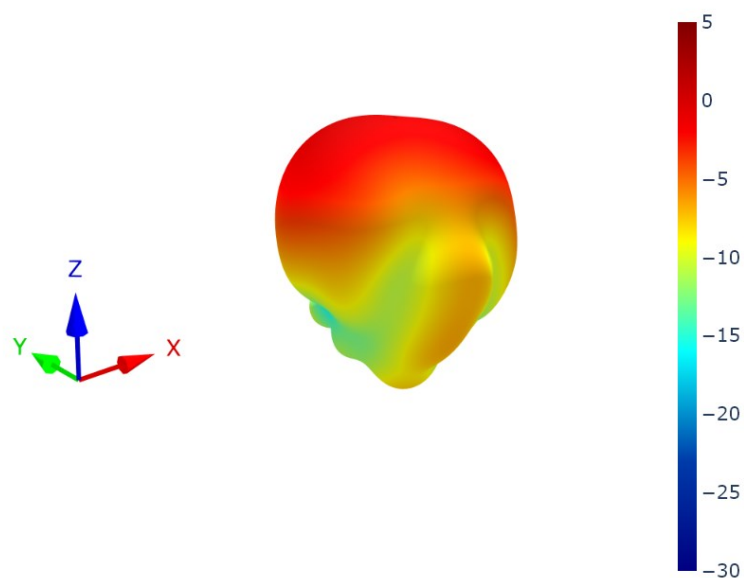
YZ Plane



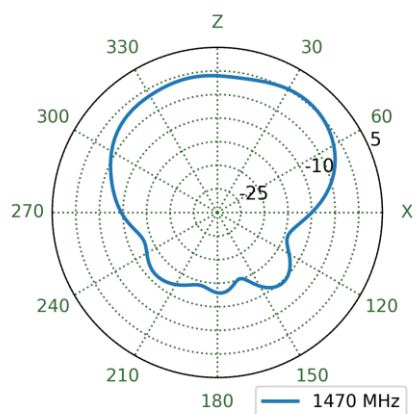
XY Plane



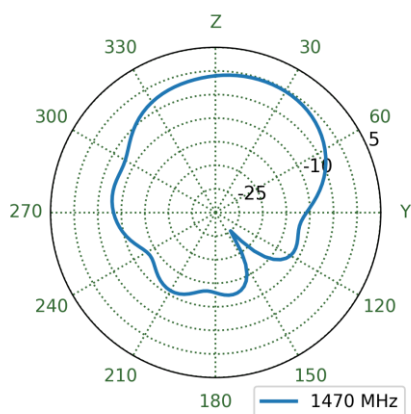
8.17 4G/5G-2 Patterns at 1470 MHz



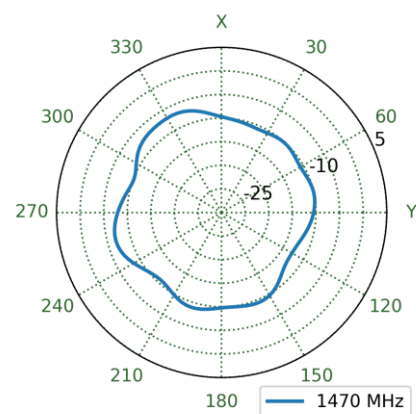
XZ Plane



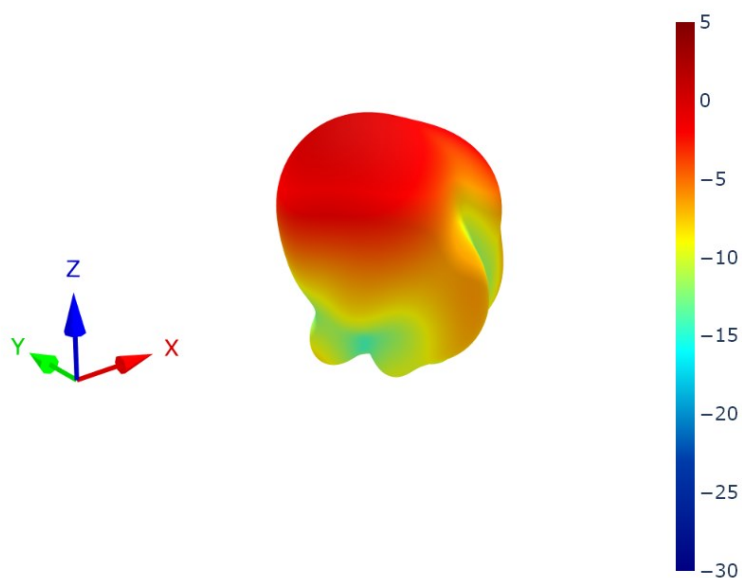
YZ Plane



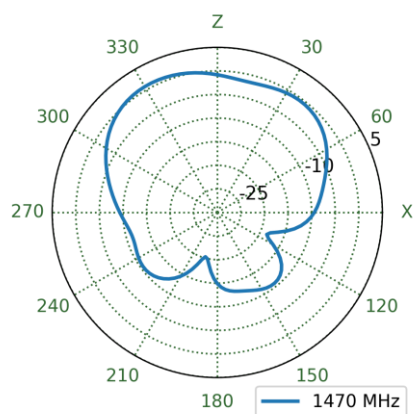
XY Plane



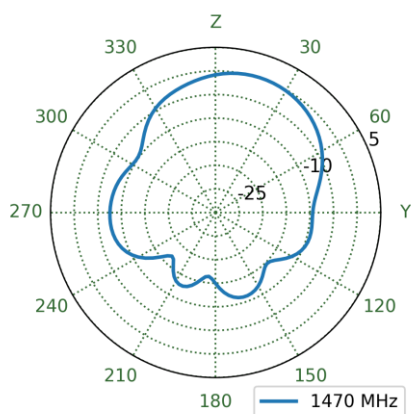
8.18 4G/5G-3 Patterns at 1470 MHz



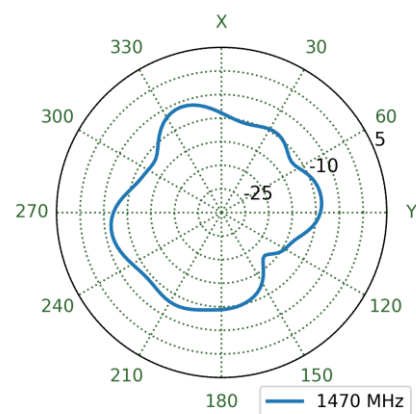
XZ Plane



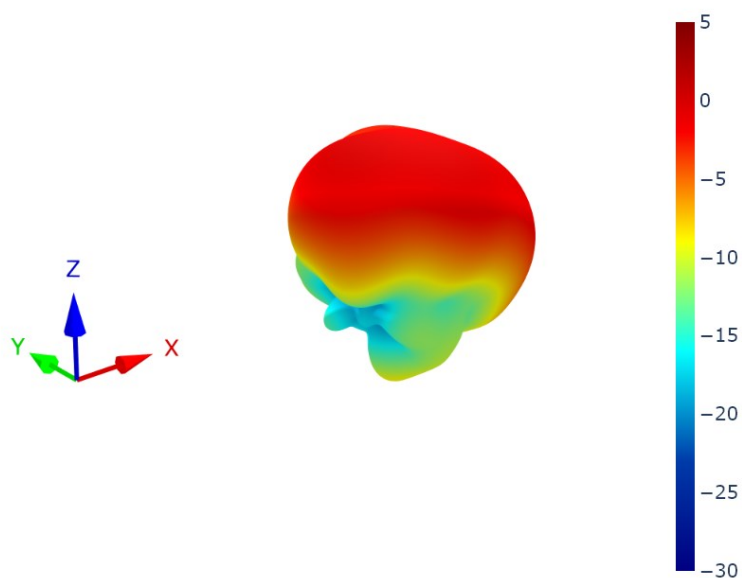
YZ Plane



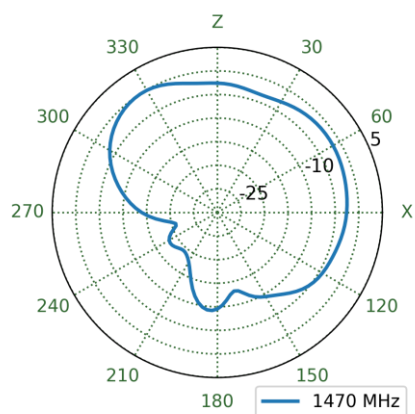
XY Plane



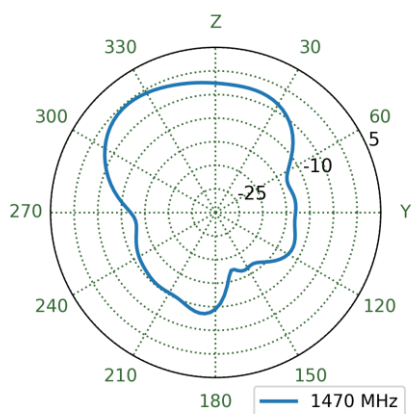
8.19 4G/5G-4 Patterns at 1470 MHz



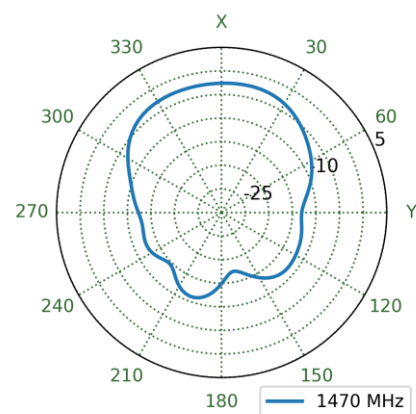
XZ Plane



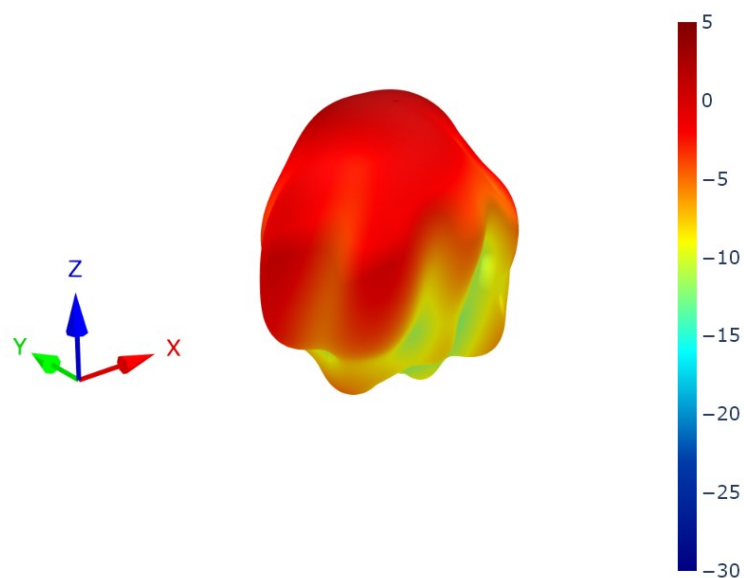
YZ Plane



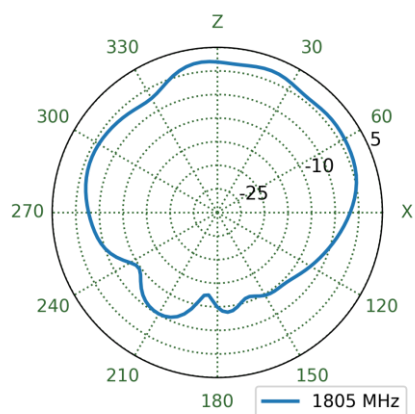
XY Plane



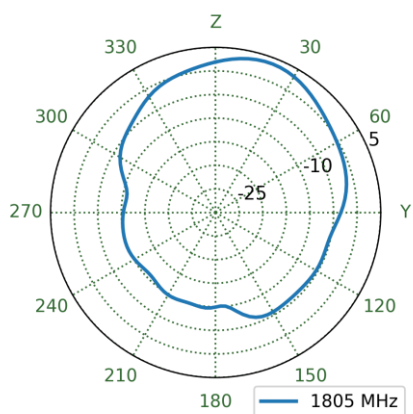
8.20 4G/5G-1 Patterns at 1805 MHz



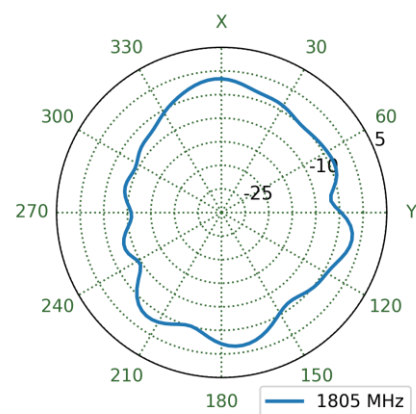
XZ Plane



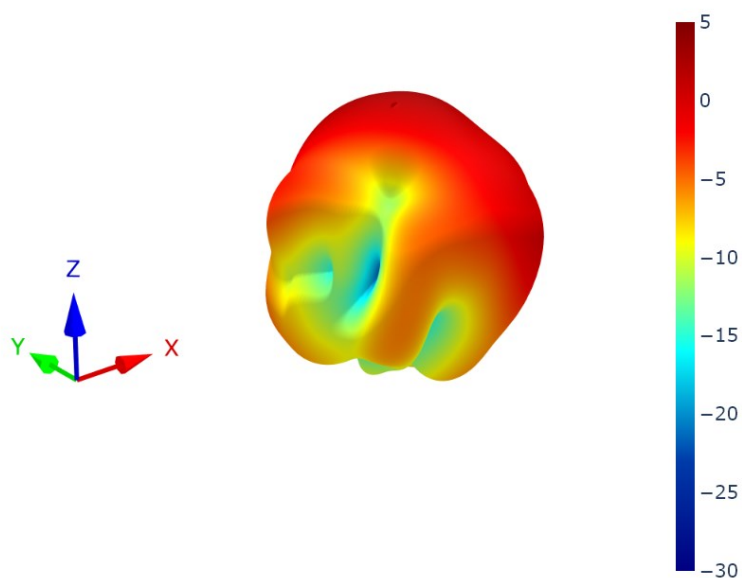
YZ Plane



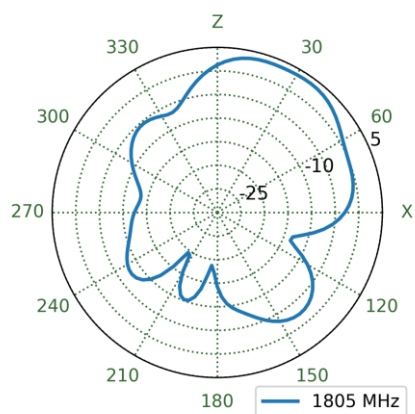
XY Plane



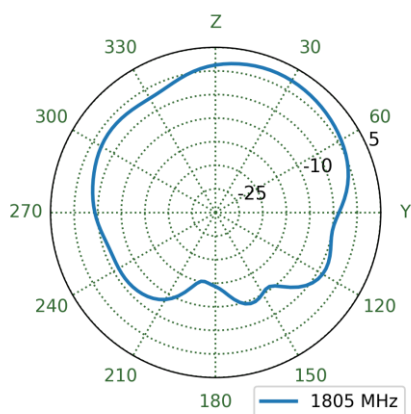
8.21 4G/5G-2 Patterns at 1805 MHz



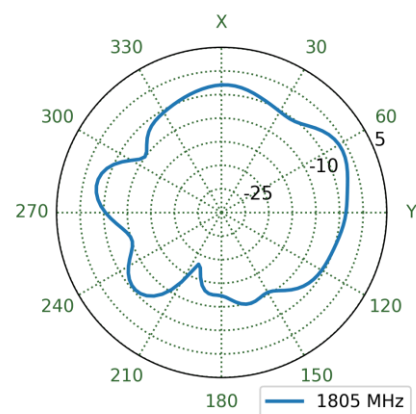
XZ Plane



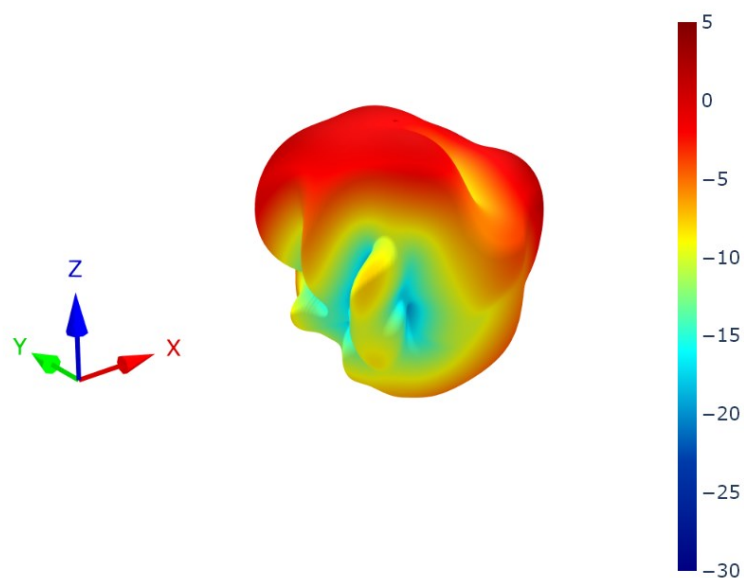
YZ Plane



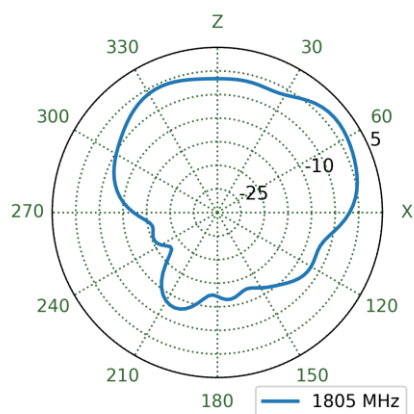
XY Plane



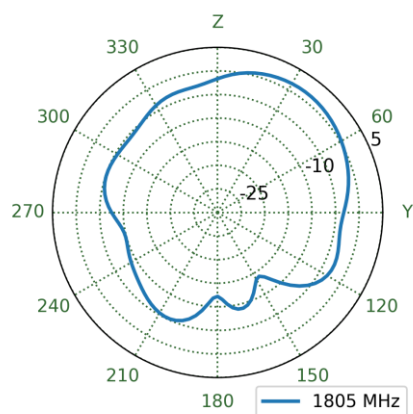
8.22 4G/5G-3 Patterns at 1805 MHz



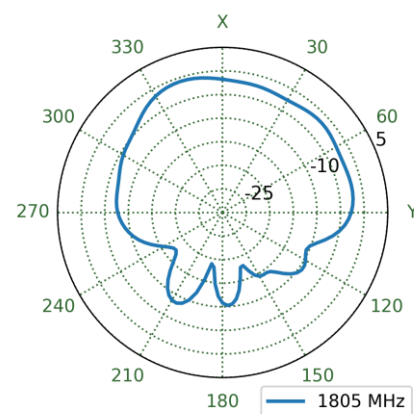
XZ Plane



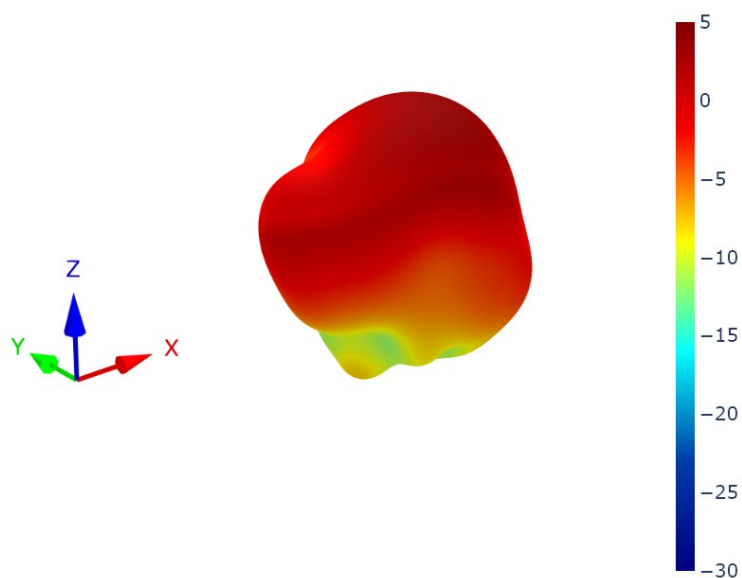
YZ Plane



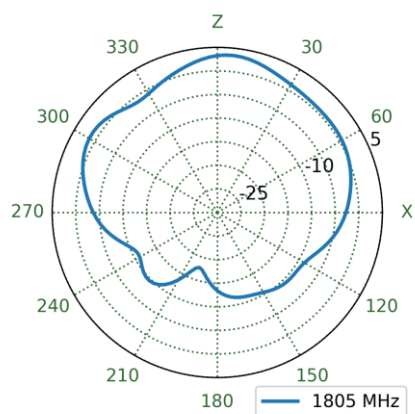
XY Plane



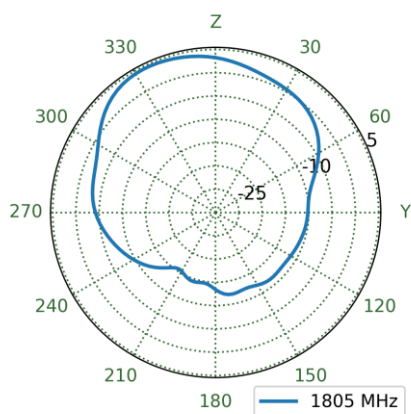
8.23 4G/5G-4 Patterns at 1805 MHz



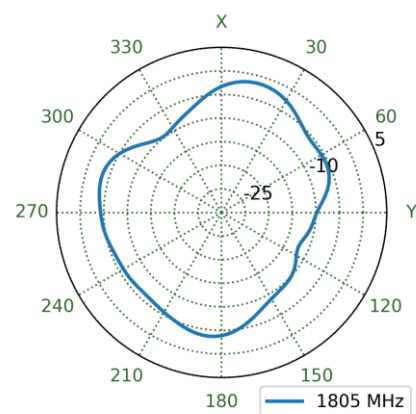
XZ Plane



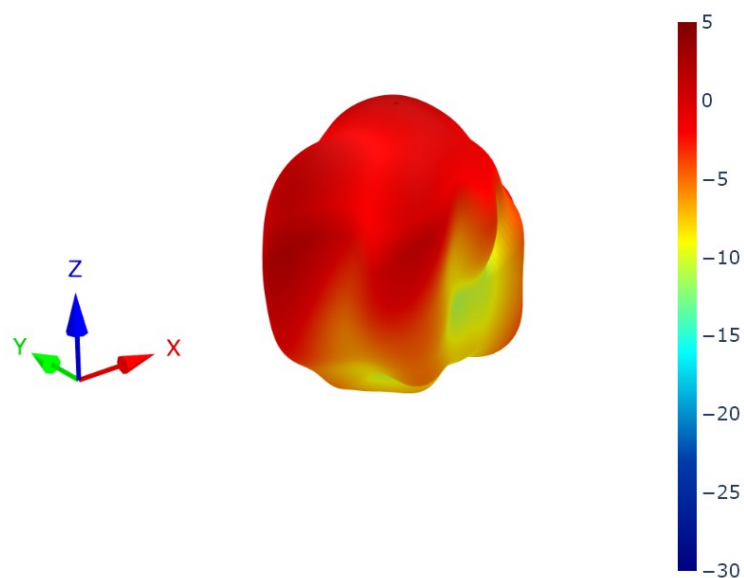
YZ Plane



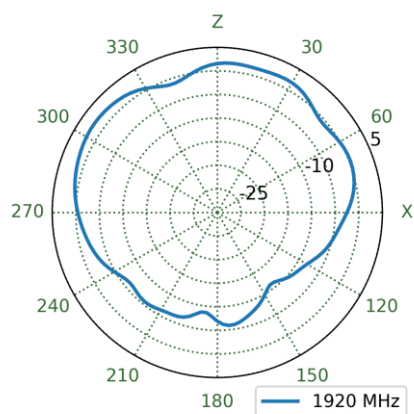
XY Plane



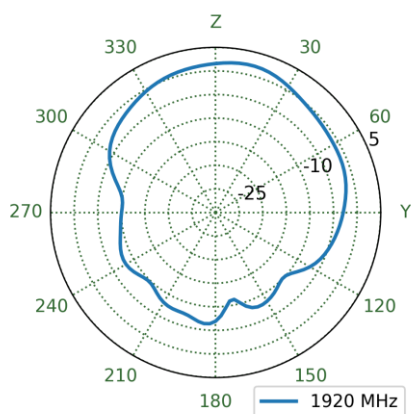
8.24 4G/5G-1 Patterns at 1920 MHz



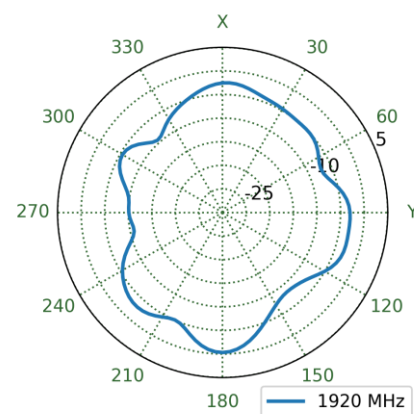
XZ Plane



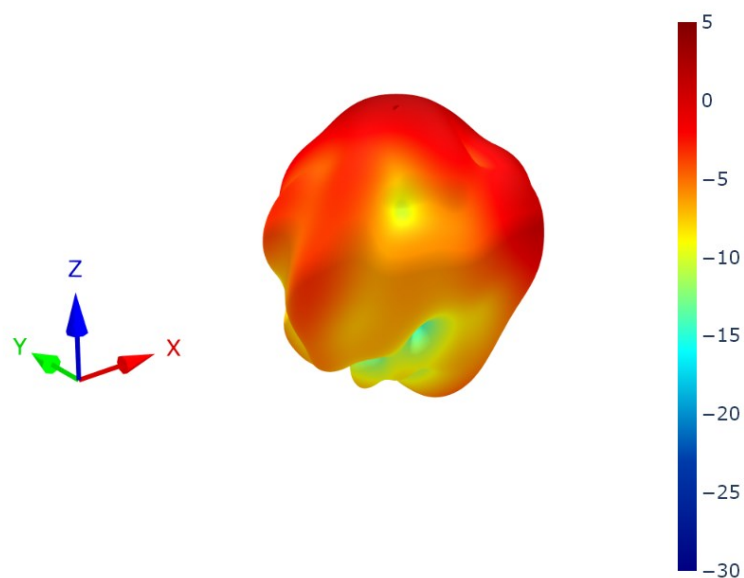
YZ Plane



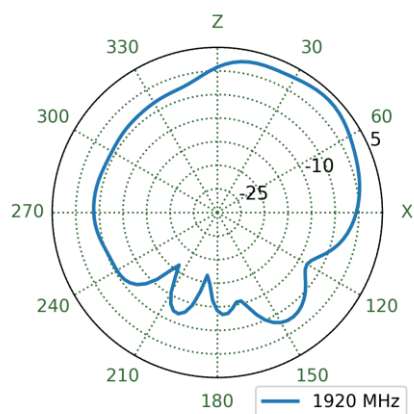
XY Plane



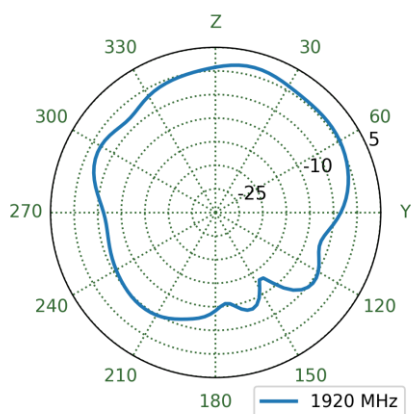
8.25 4G/5G-2 Patterns at 1920 MHz



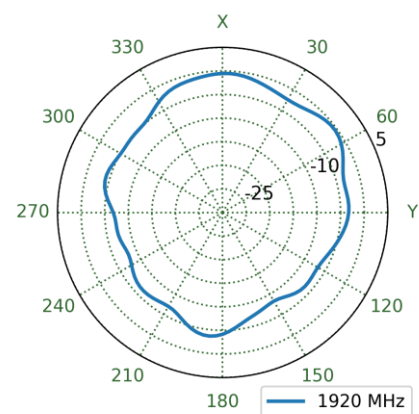
XZ Plane



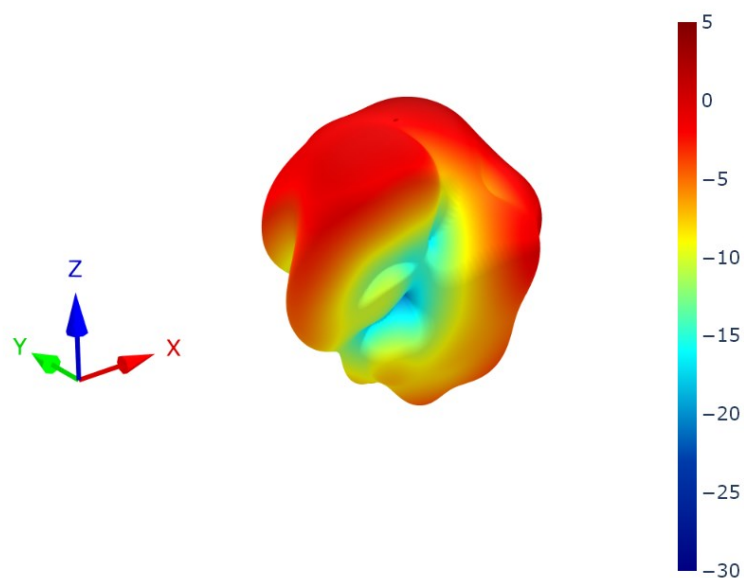
YZ Plane



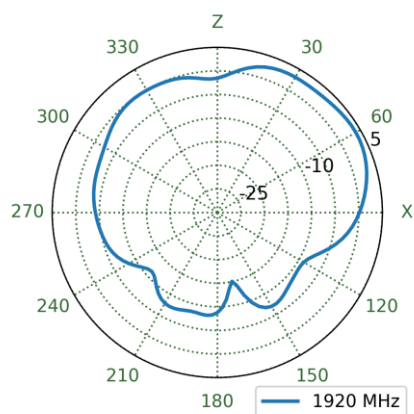
XY Plane



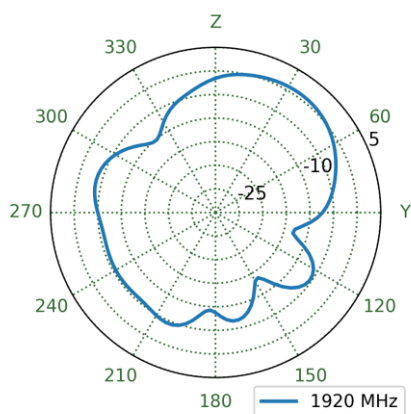
8.26 4G/5G-3 Patterns at 1920 MHz



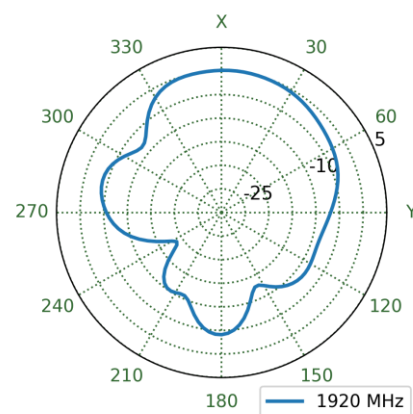
XZ Plane



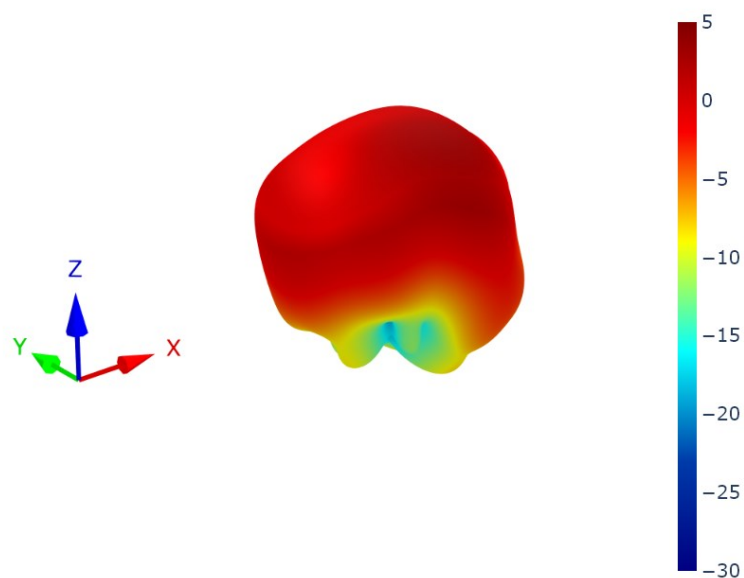
YZ Plane



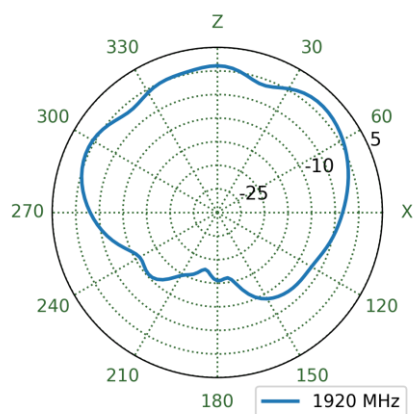
XY Plane



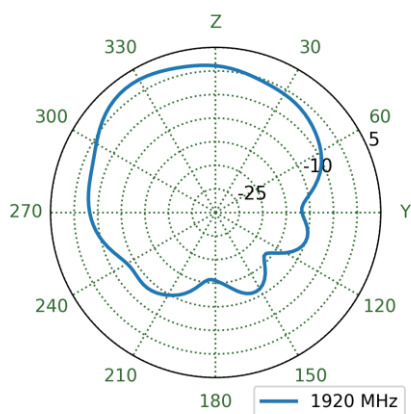
8.27 4G/5G-4 Patterns at 1920 MHz



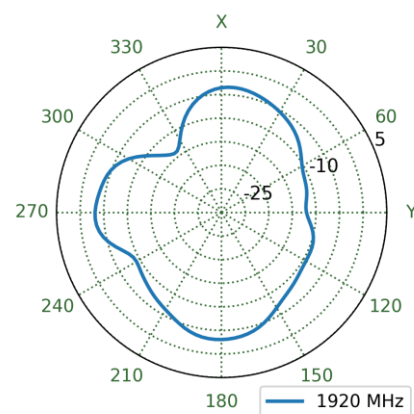
XZ Plane



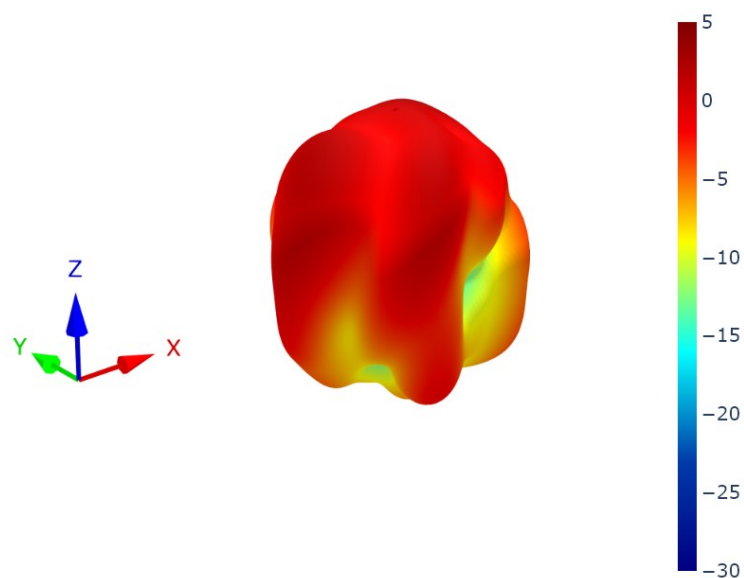
YZ Plane



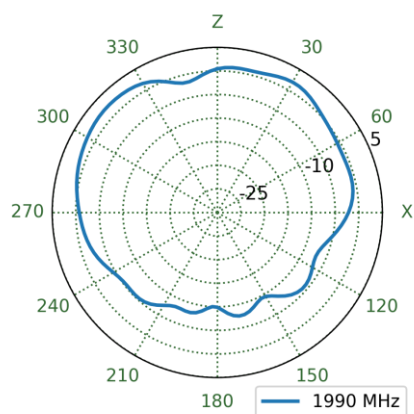
XY Plane



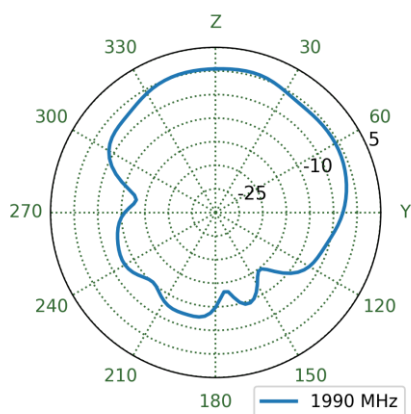
8.28 4G/5G-1 Patterns at 1990 MHz



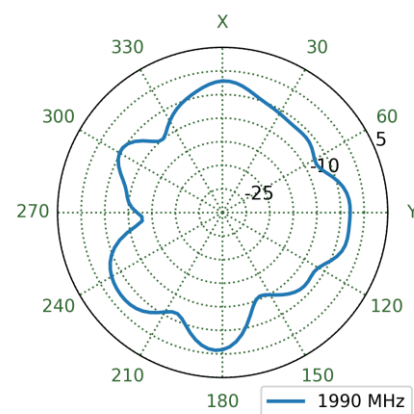
XZ Plane



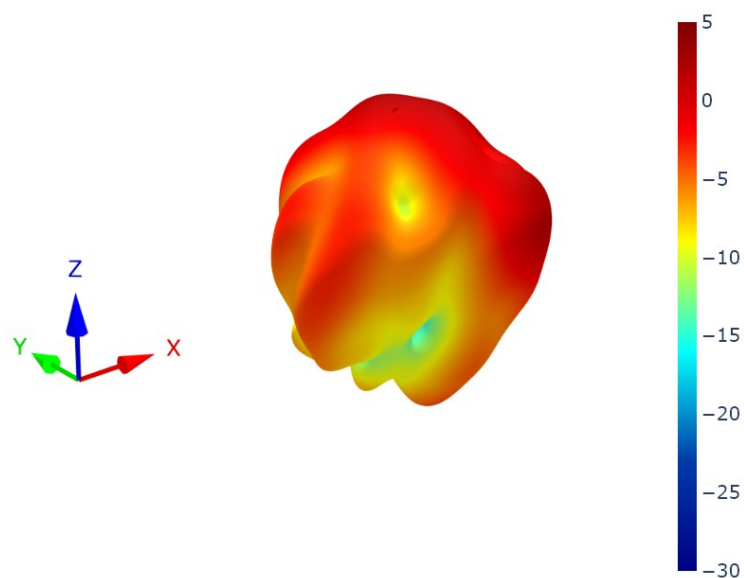
YZ Plane



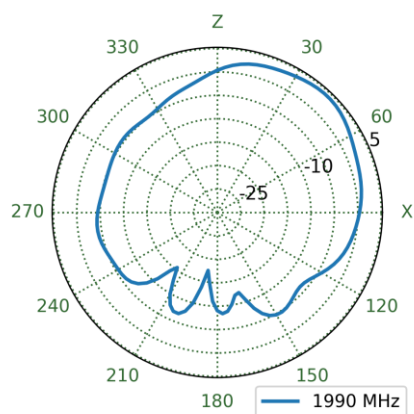
XY Plane



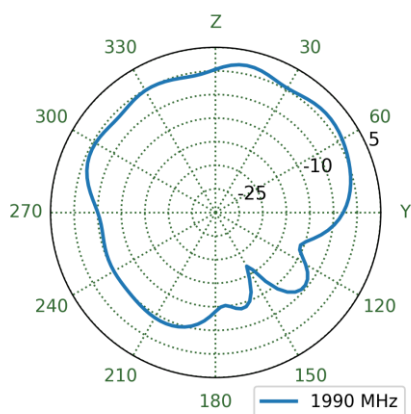
8.29 4G/5G-2 Patterns at 1990 MHz



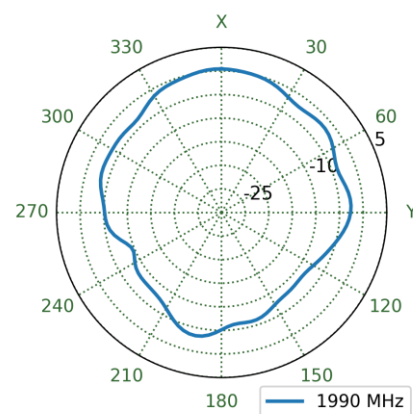
XZ Plane



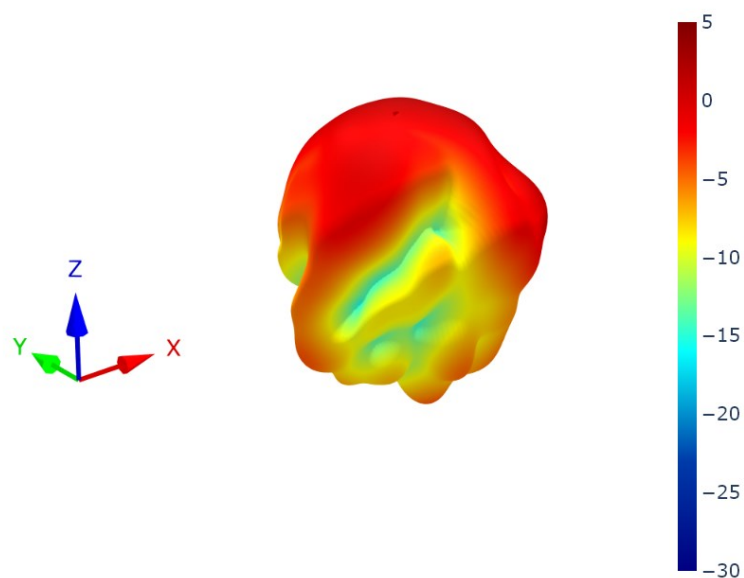
YZ Plane



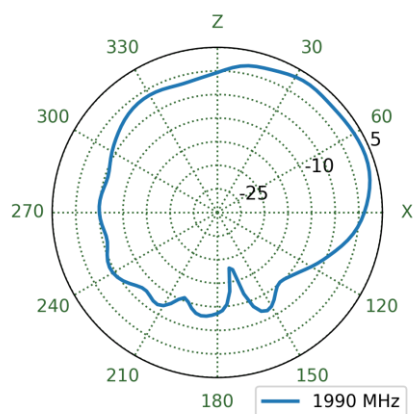
XY Plane



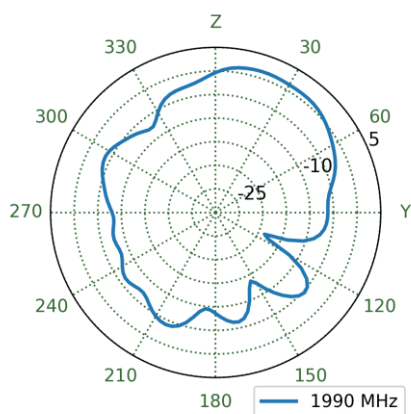
8.30 4G/5G-3 Patterns at 1990 MHz



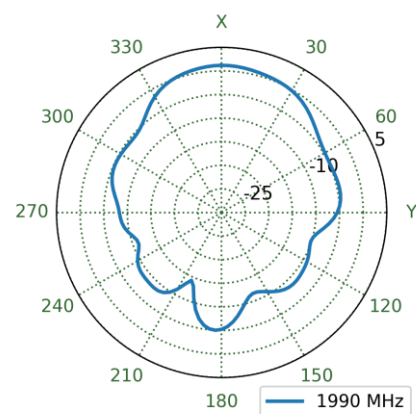
XZ Plane



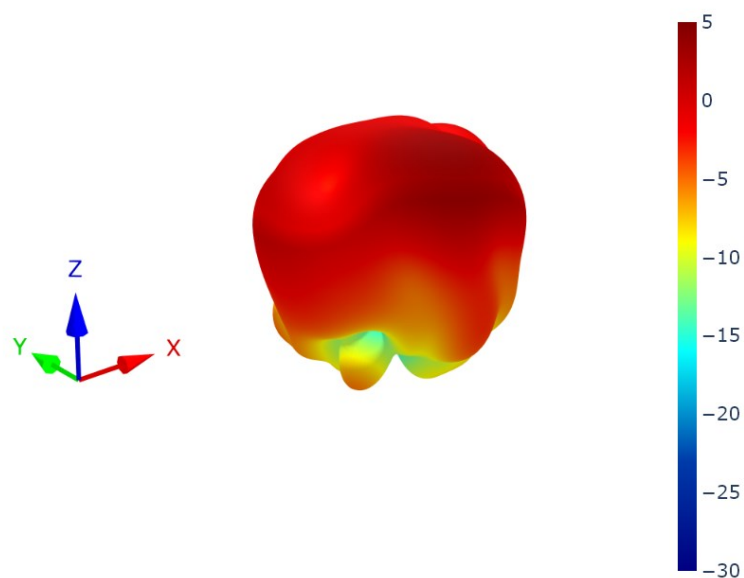
YZ Plane



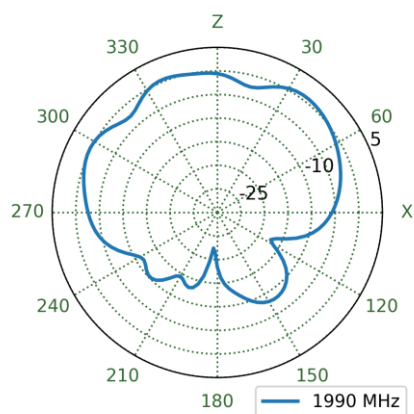
XY Plane



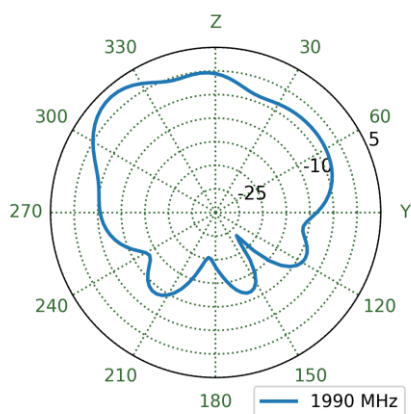
8.31 4G/5G-4 Patterns at 1990 MHz



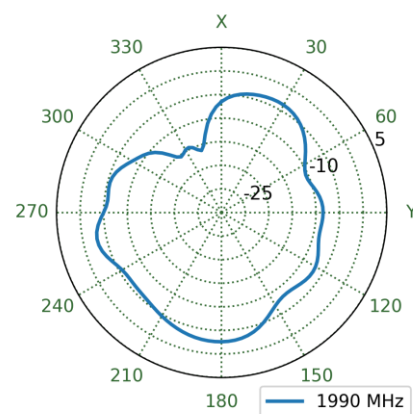
XZ Plane



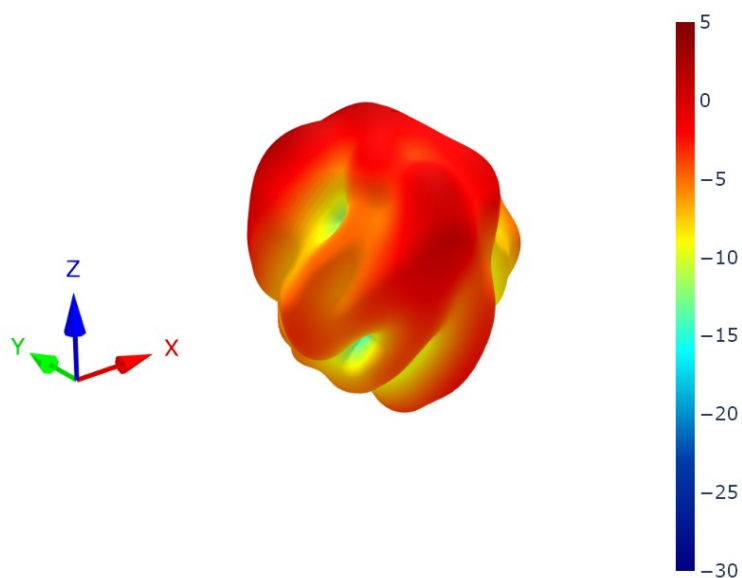
YZ Plane



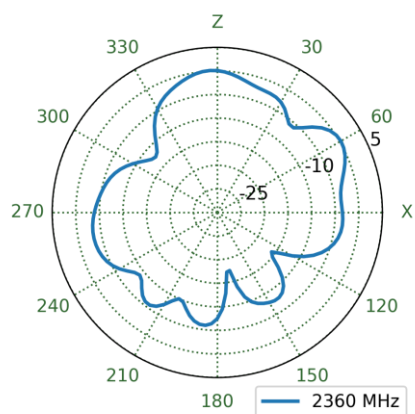
XY Plane



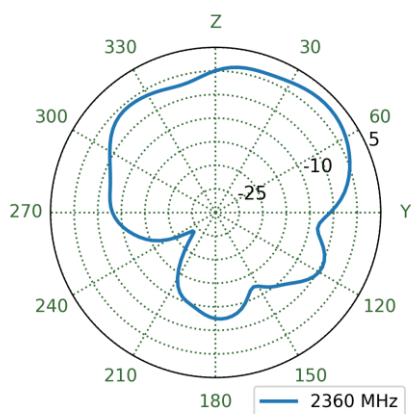
8.32 4G/5G-1 Patterns at 2360 MHz



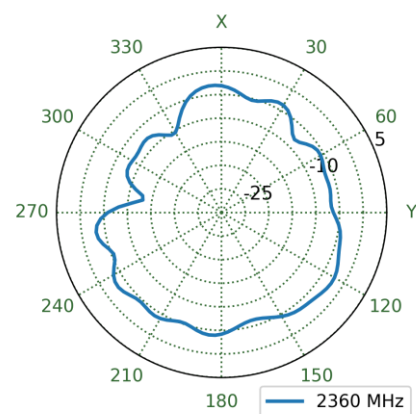
XZ Plane



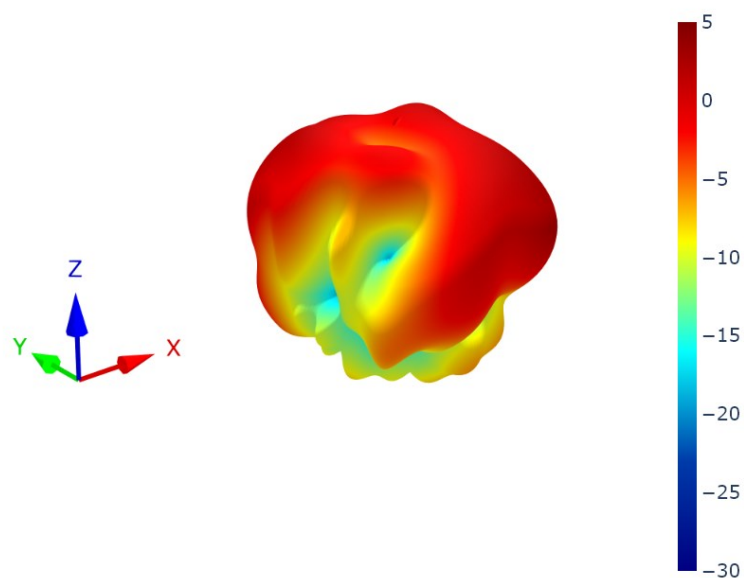
YZ Plane



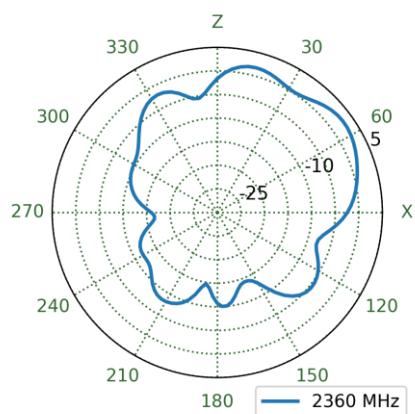
XY Plane



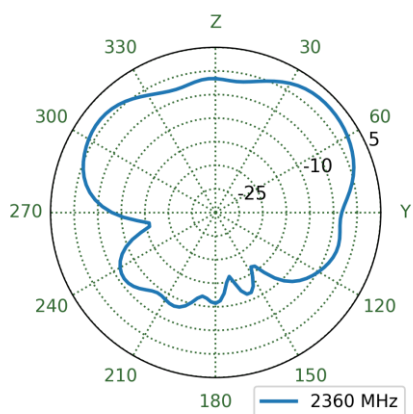
8.33 4G/5G-2 Patterns at 2360 MHz



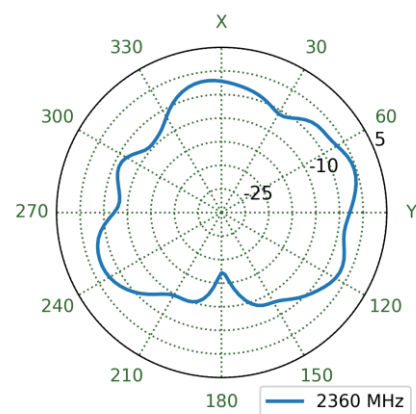
XZ Plane



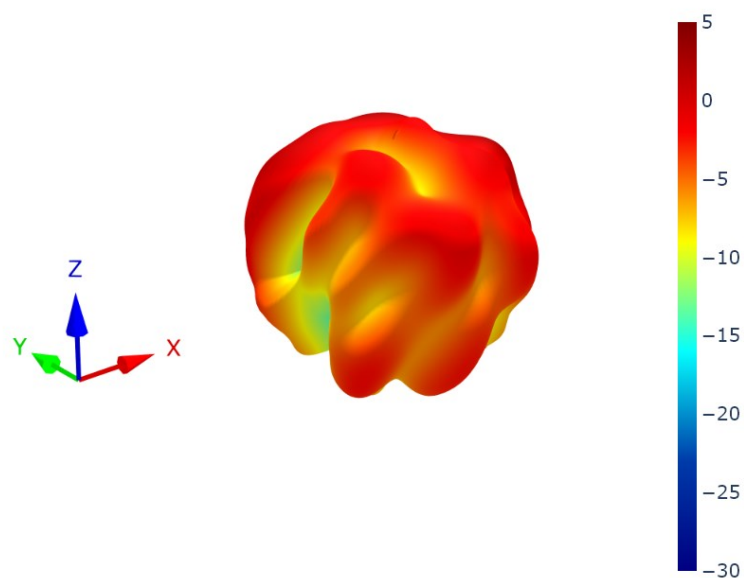
YZ Plane



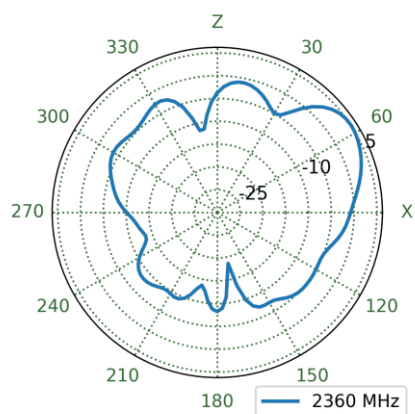
XY Plane



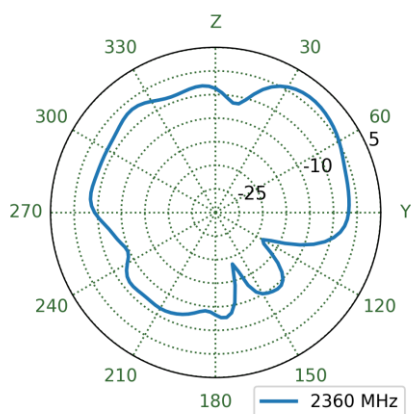
8.34 4G/5G-3 Patterns at 2360 MHz



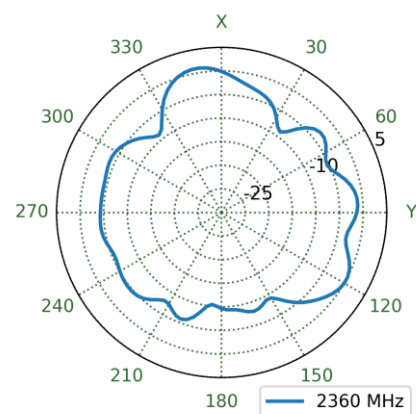
XZ Plane



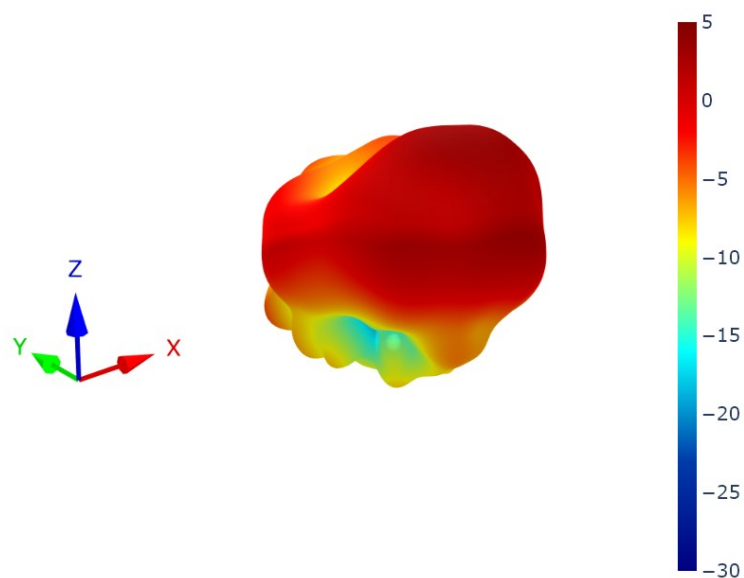
YZ Plane



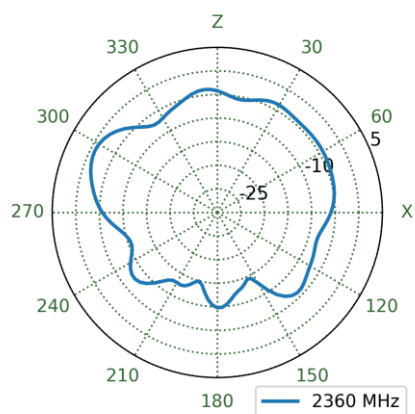
XY Plane



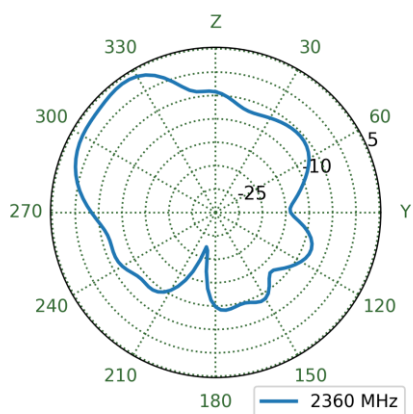
8.35 4G/5G-4 Patterns at 2360 MHz



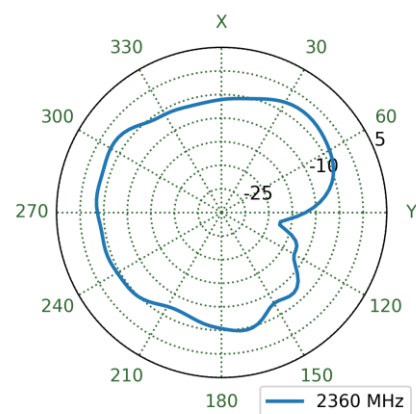
XZ Plane



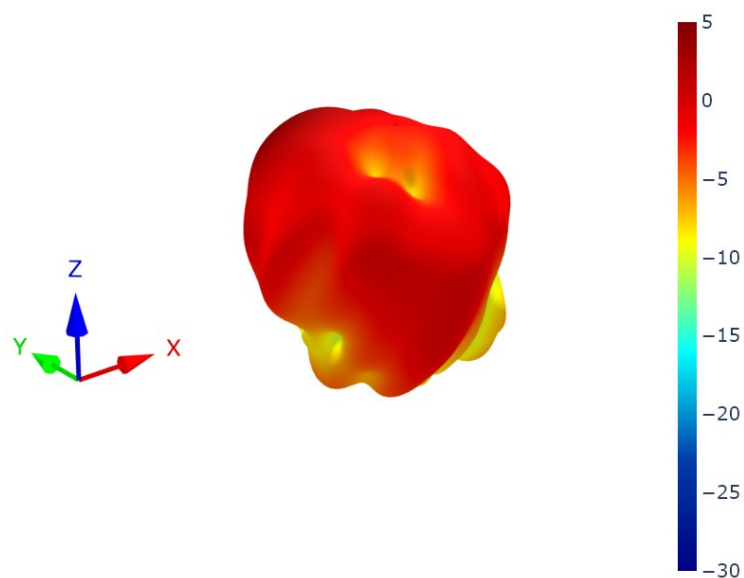
YZ Plane



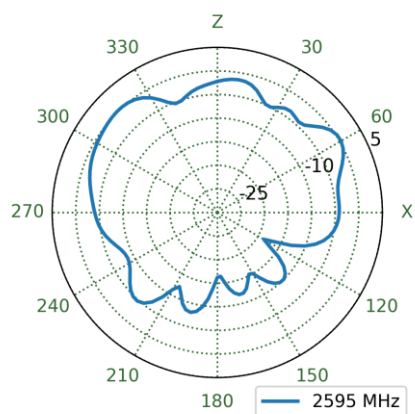
XY Plane



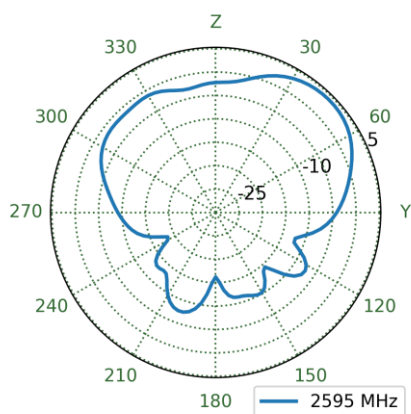
8.36 4G/5G-1 Patterns at 2595 MHz



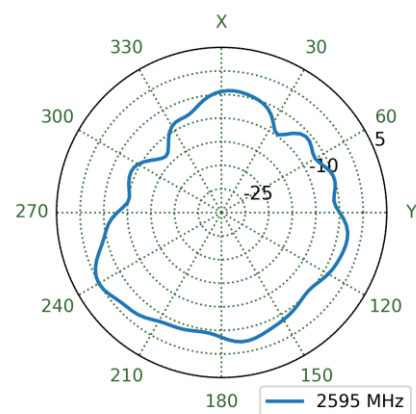
XZ Plane



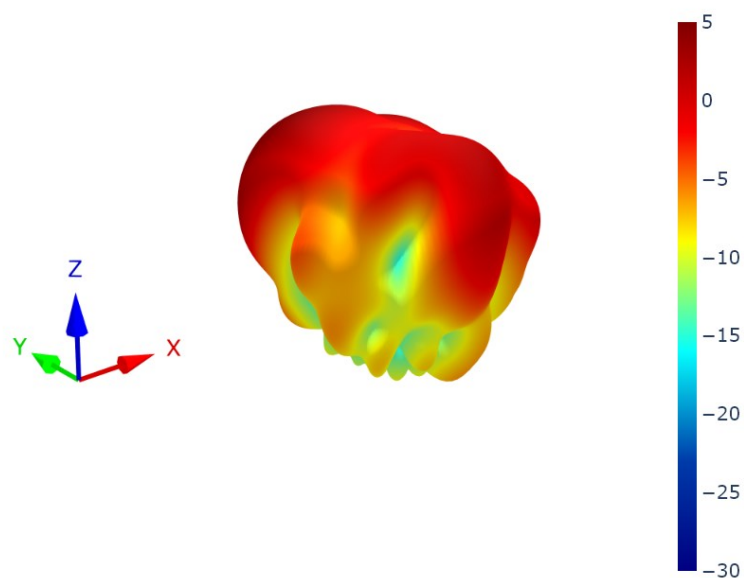
YZ Plane



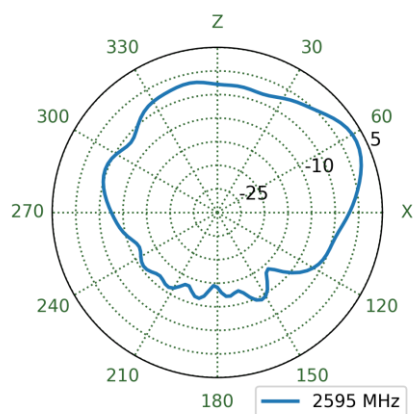
XY Plane



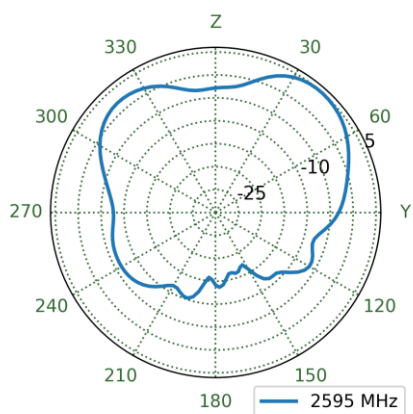
8.37 4G/5G-2 Patterns at 2595 MHz



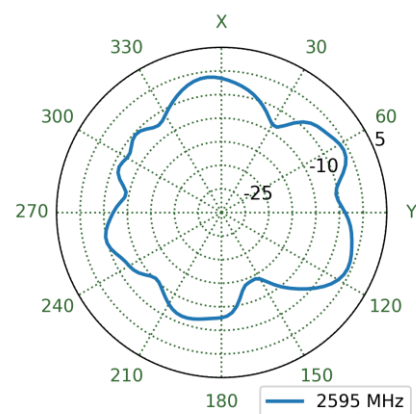
XZ Plane



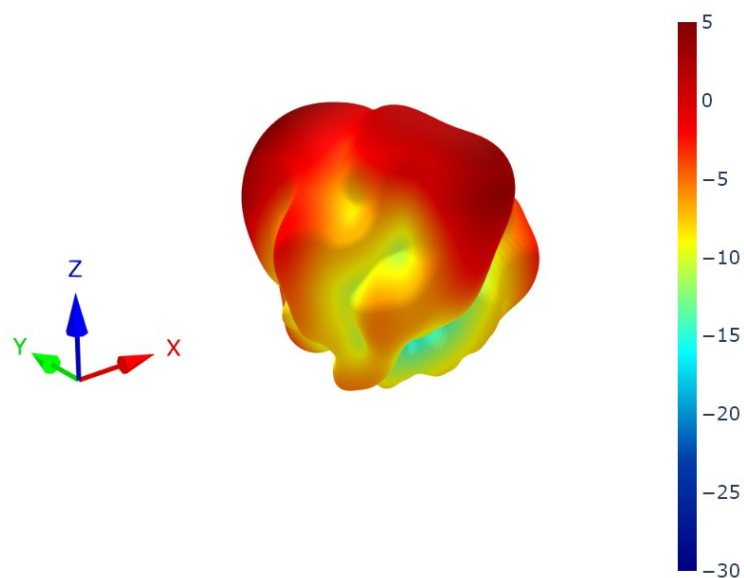
YZ Plane



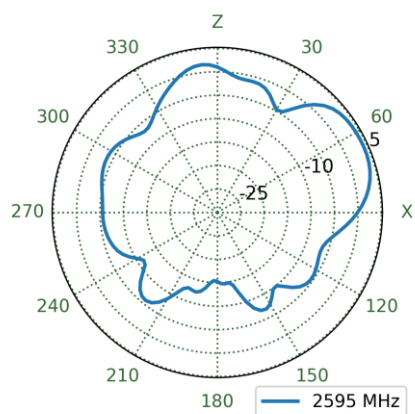
XY Plane



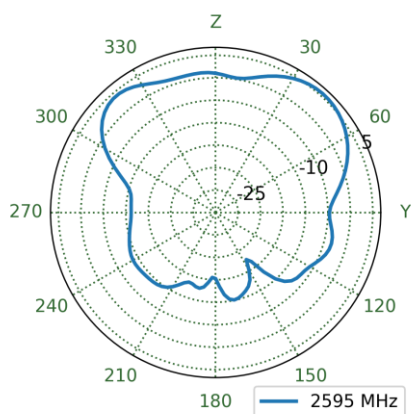
8.38 4G/5G-3 Patterns at 2595 MHz



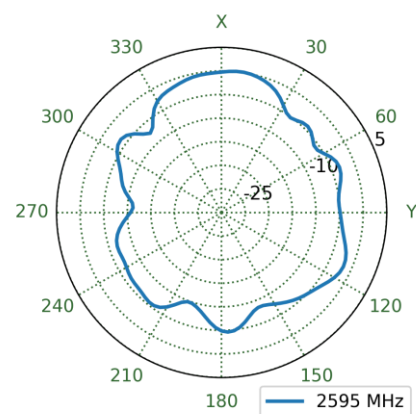
XZ Plane



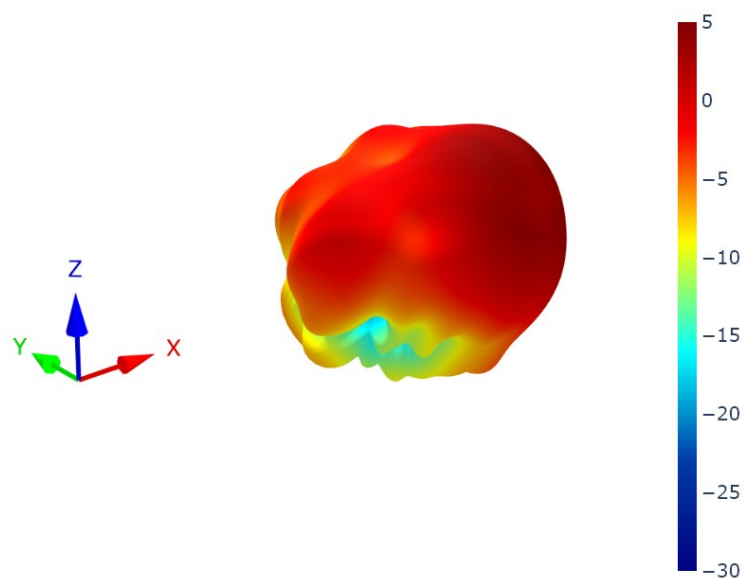
YZ Plane



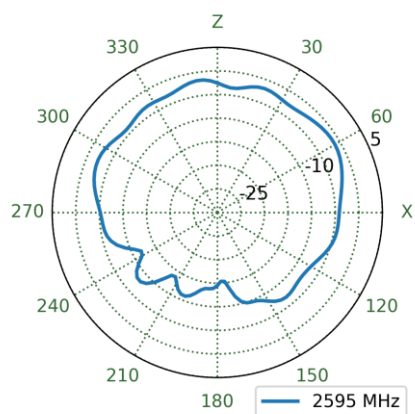
XY Plane



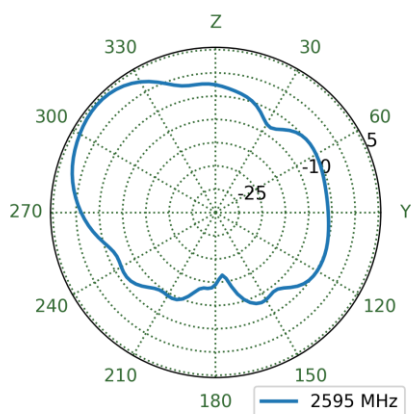
8.39 4G/5G-4 Patterns at 2595 MHz



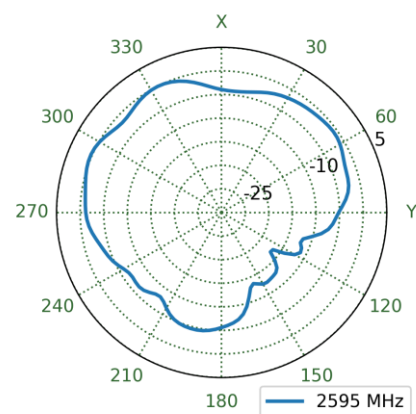
XZ Plane



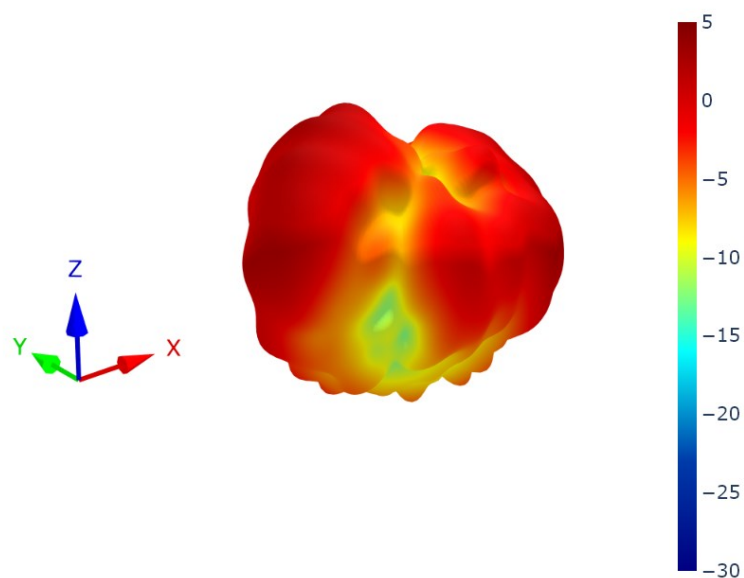
YZ Plane



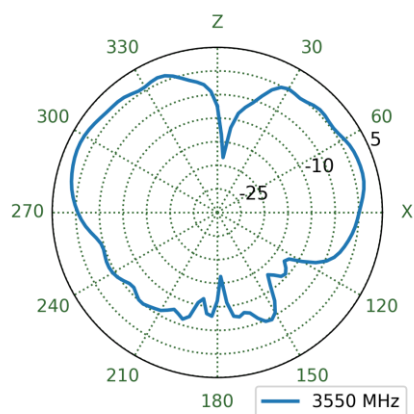
XY Plane



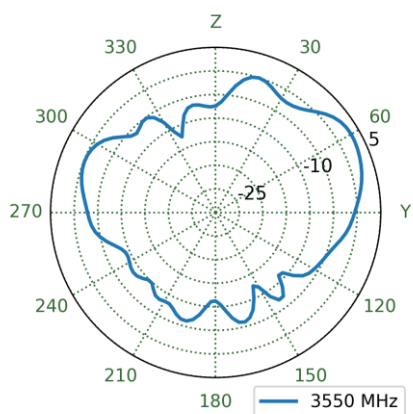
8.40 4G/5G-1 Patterns at 3550 MHz



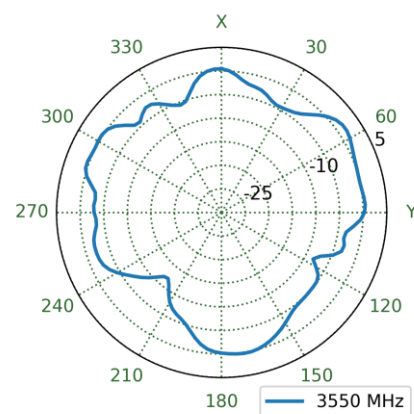
XZ Plane



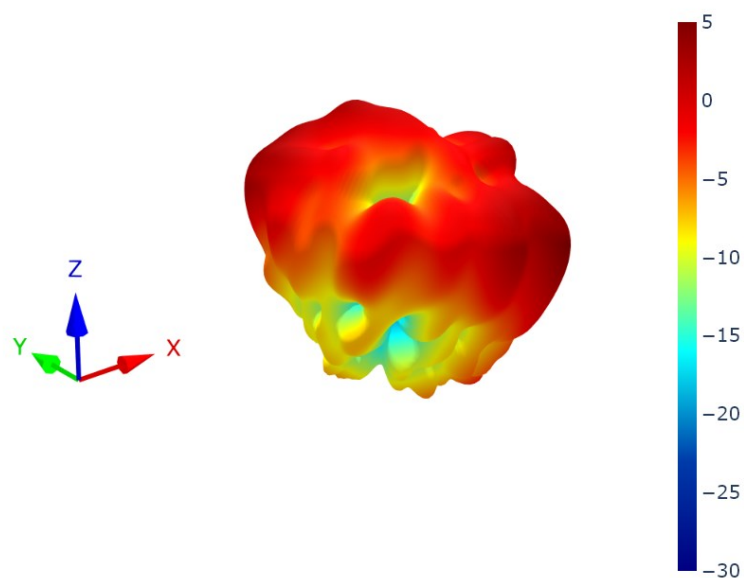
YZ Plane



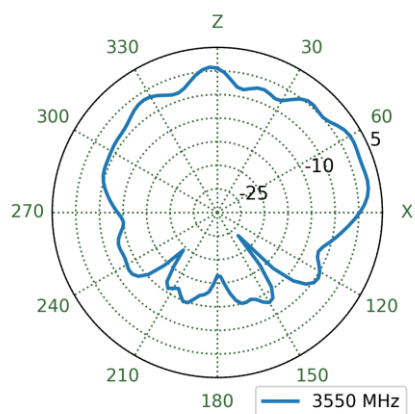
XY Plane



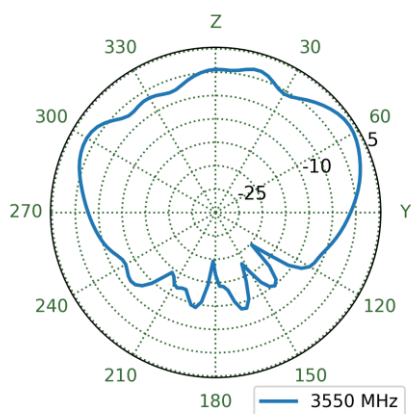
8.41 4G/5G-2 Patterns at 3550 MHz



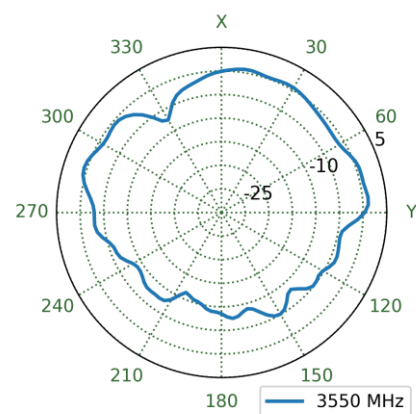
XZ Plane



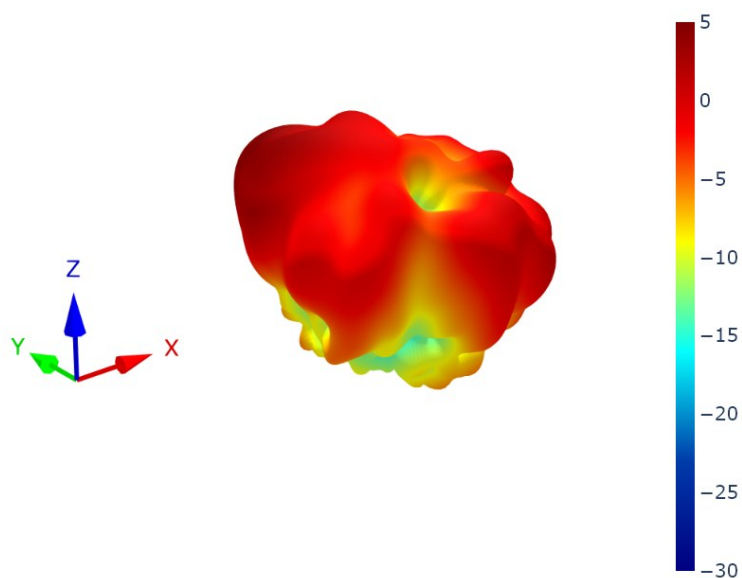
YZ Plane



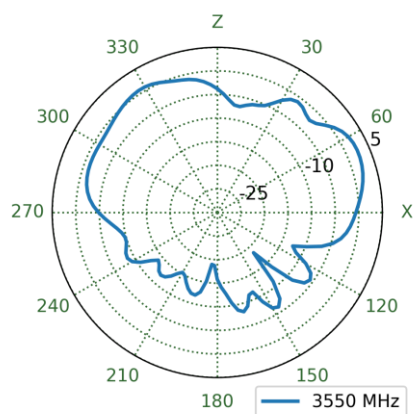
XY Plane



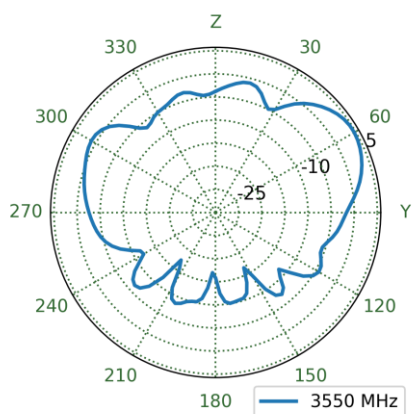
8.42 4G/5G-3 Patterns at 3550 MHz



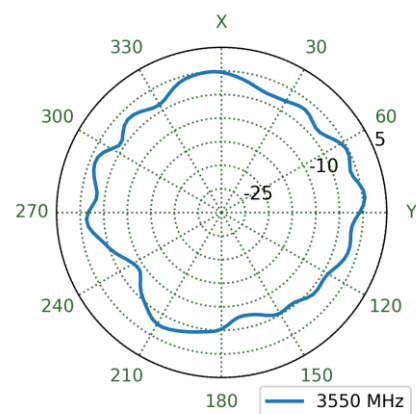
XZ Plane



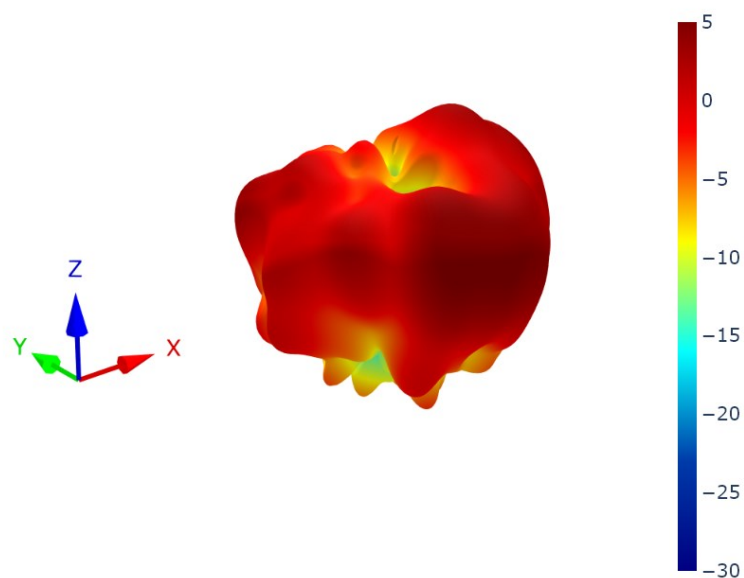
YZ Plane



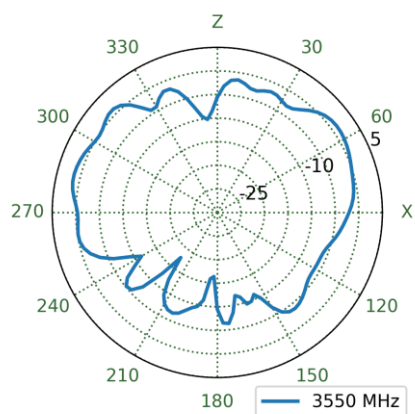
XY Plane



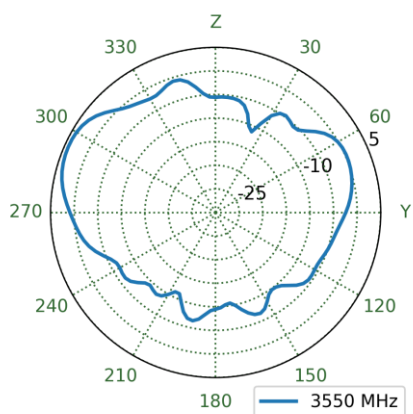
8.43 4G/5G-4 Patterns at 3550 MHz



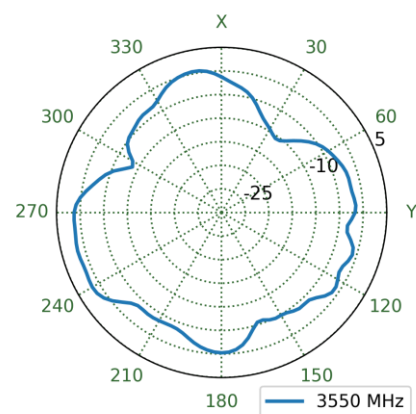
XZ Plane



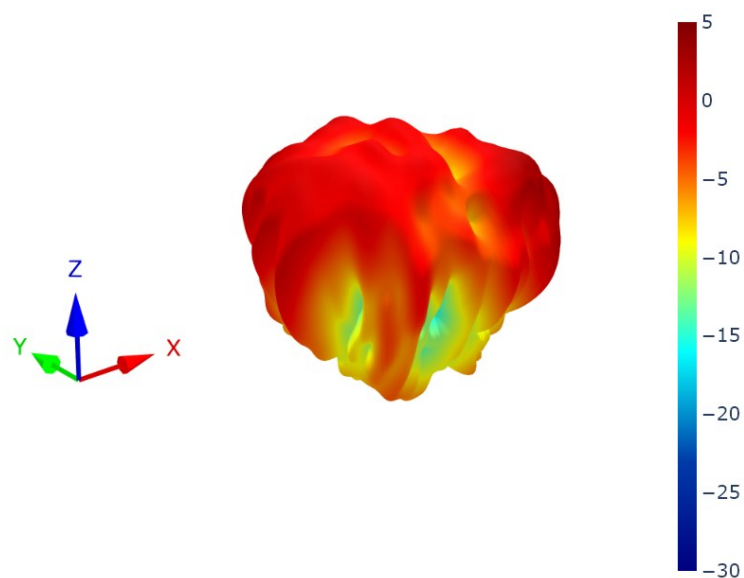
YZ Plane



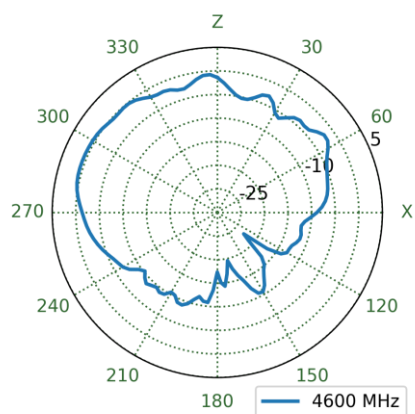
XY Plane



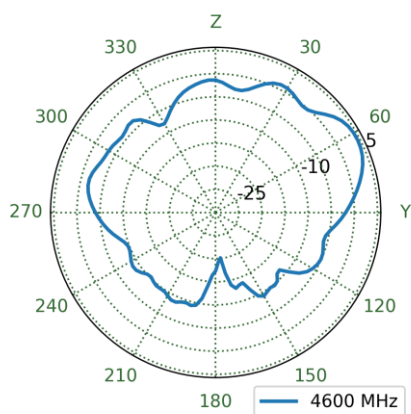
8.44 4G/5G-1 Patterns at 4600 MHz



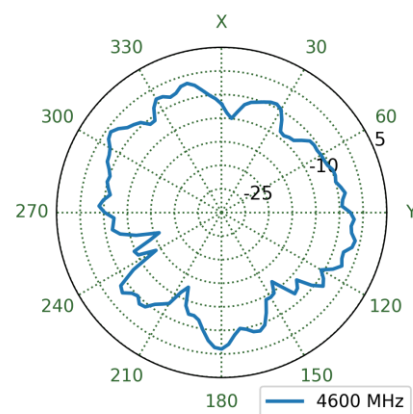
XZ Plane



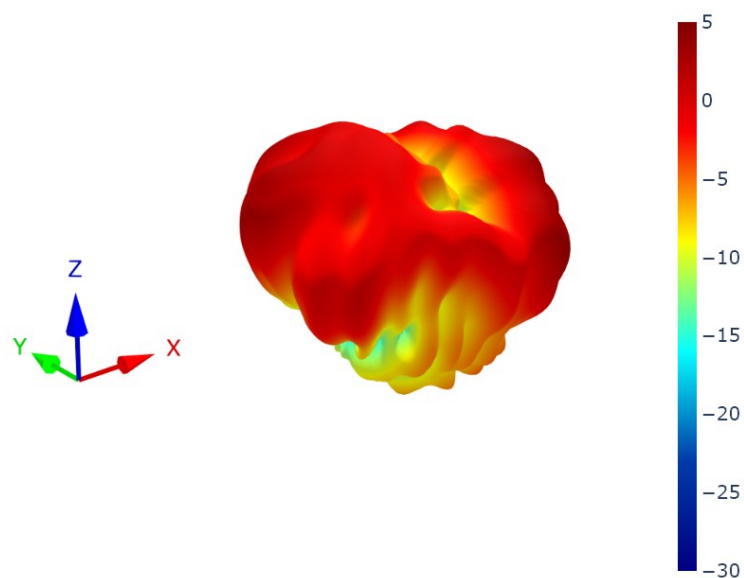
YZ Plane



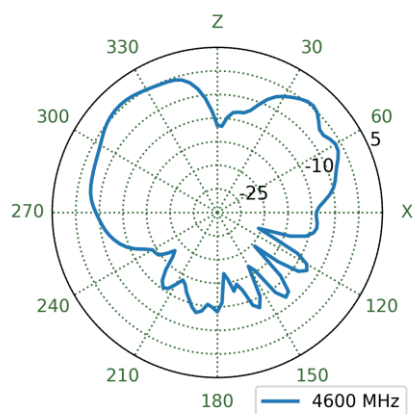
XY Plane



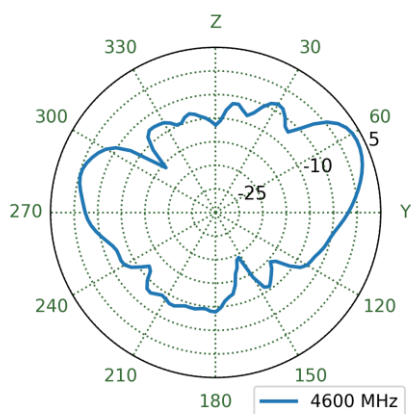
8.45 4G/5G-2 Patterns at 4600 MHz



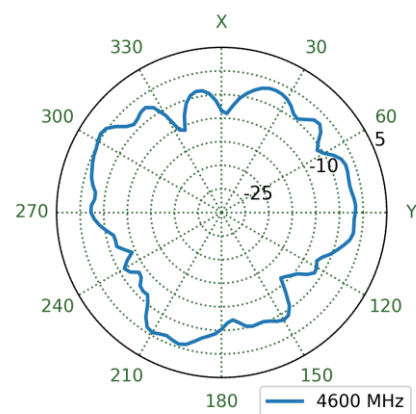
XZ Plane



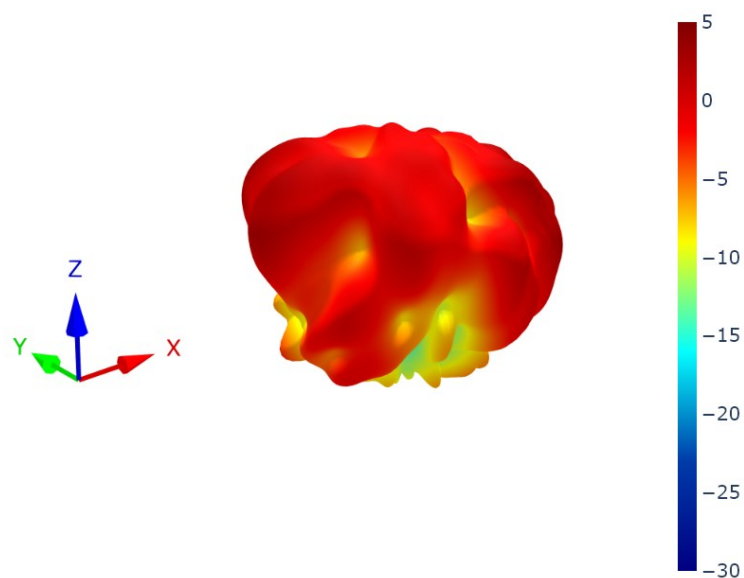
YZ Plane



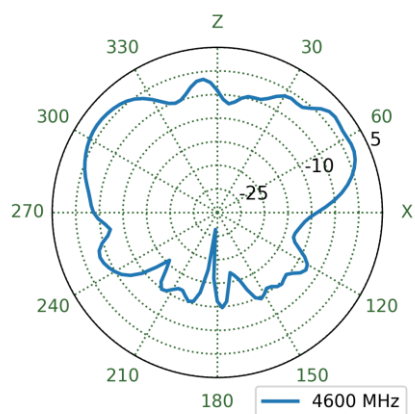
XY Plane



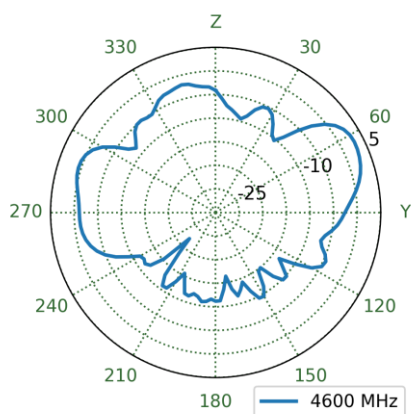
8.46 4G/5G-3 Patterns at 4600 MHz



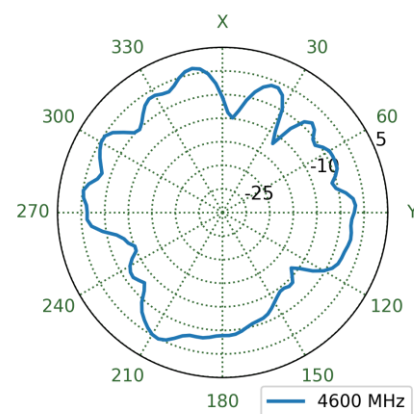
XZ Plane



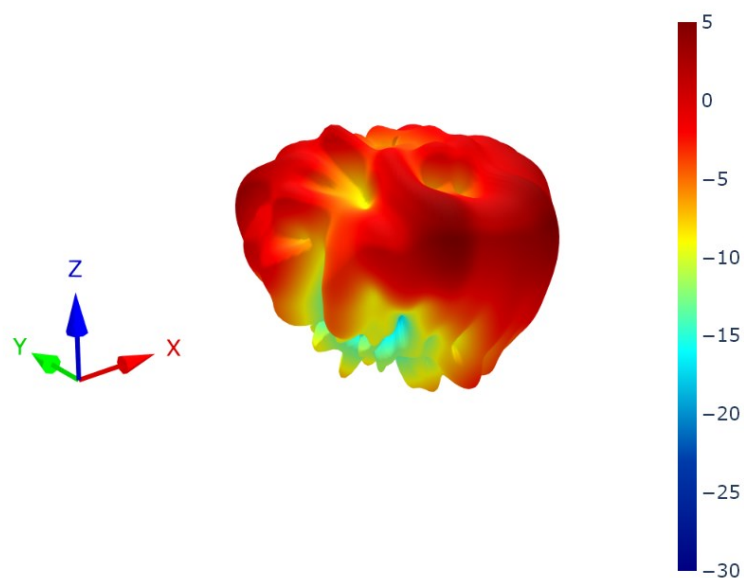
YZ Plane



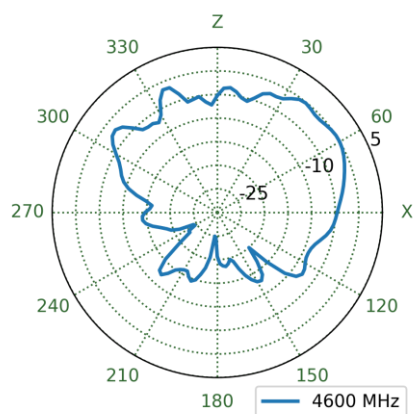
XY Plane



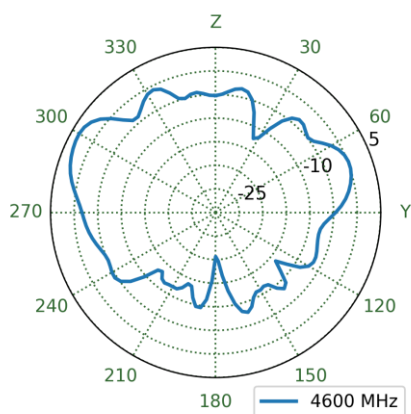
8.47 4G/5G-4 Patterns at 4600 MHz



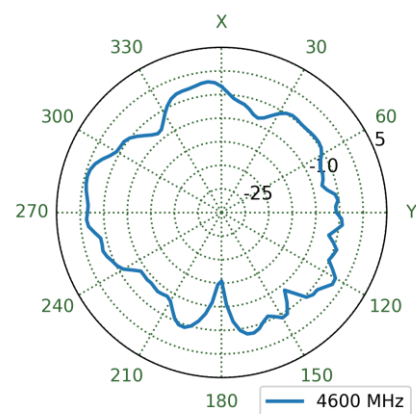
XZ Plane



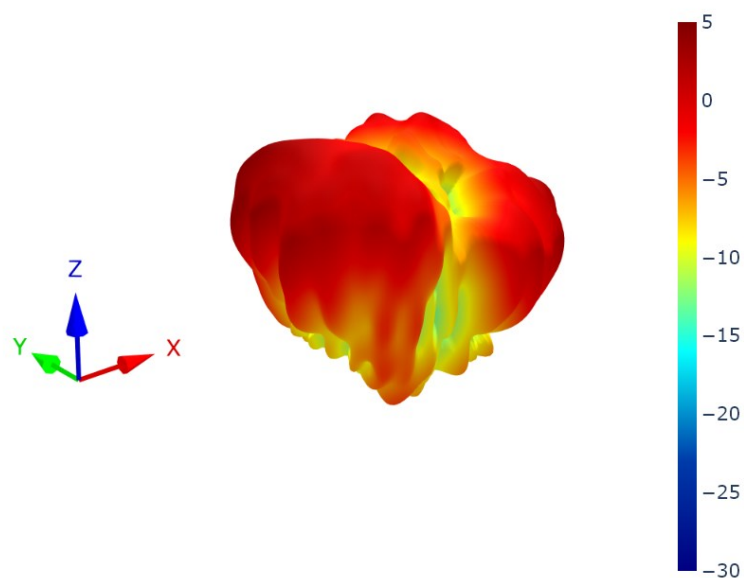
YZ Plane



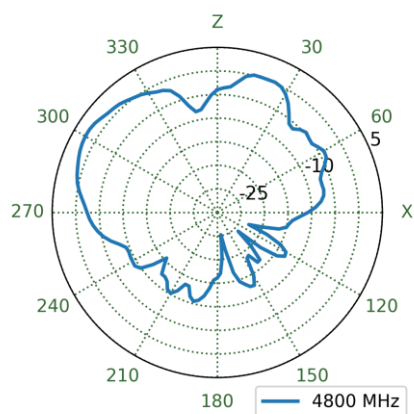
XY Plane



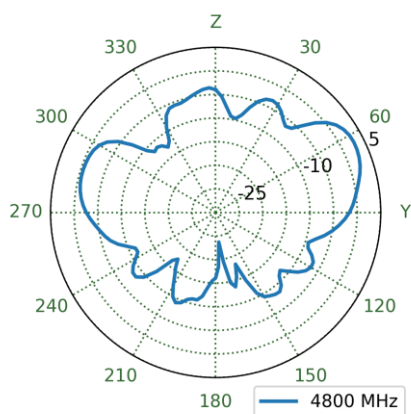
8.48 4G/5G-1 Patterns at 4800 MHz



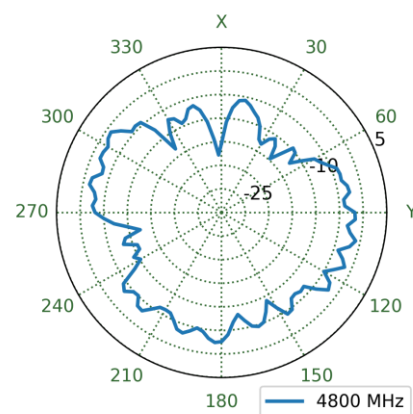
XZ Plane



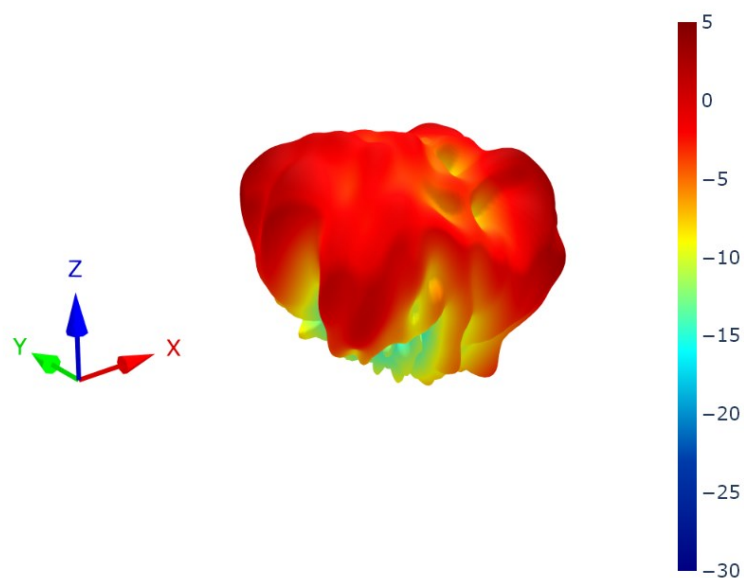
YZ Plane



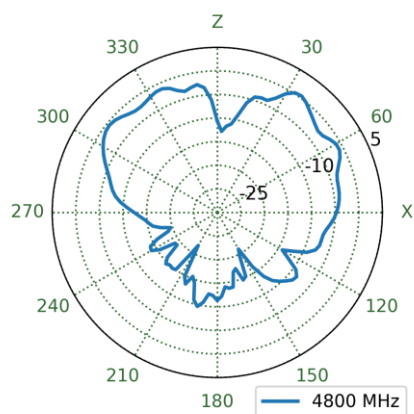
XY Plane



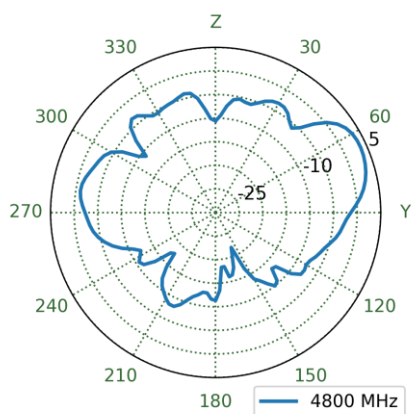
8.49 4G/5G-2 Patterns at 4800 MHz



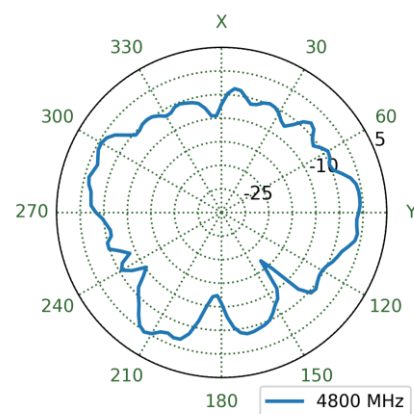
XZ Plane



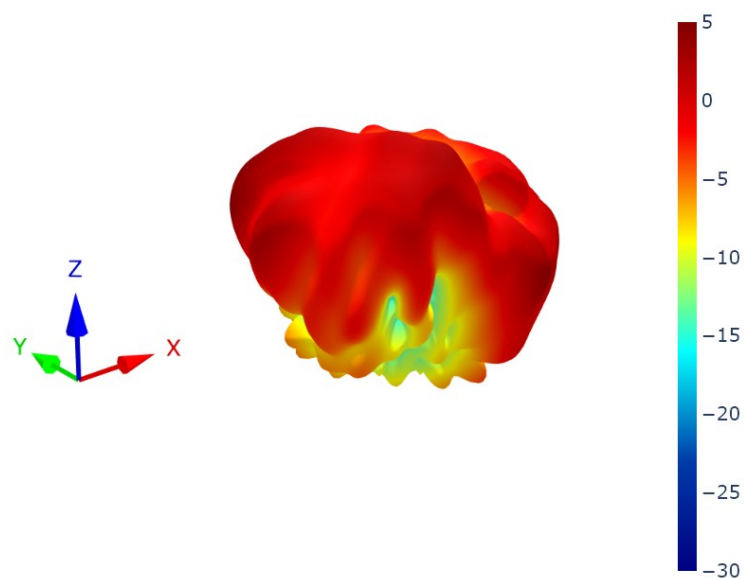
YZ Plane



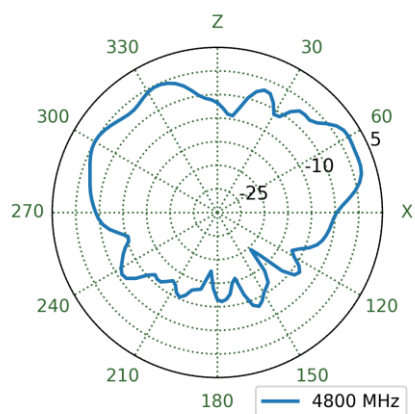
XY Plane



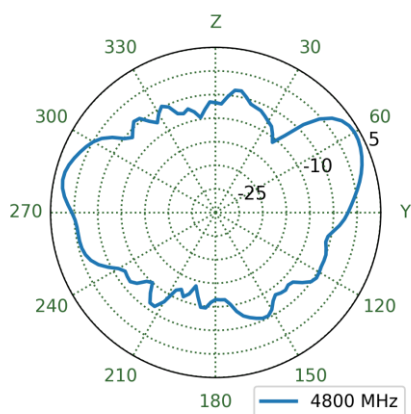
8.50 4G/5G-3 Patterns at 4800 MHz



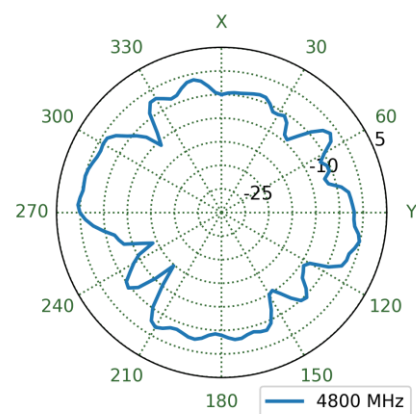
XZ Plane



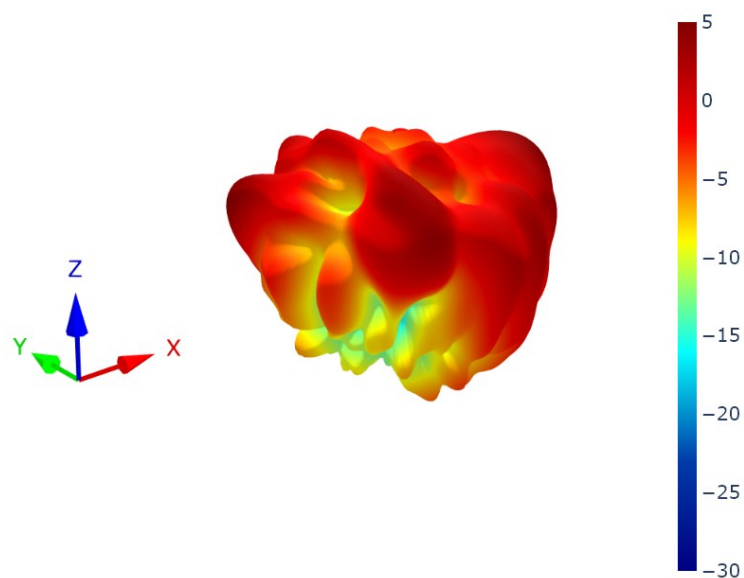
YZ Plane



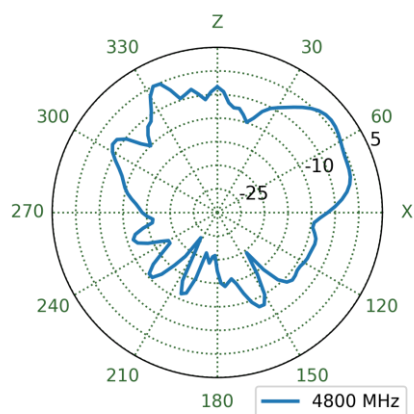
XY Plane



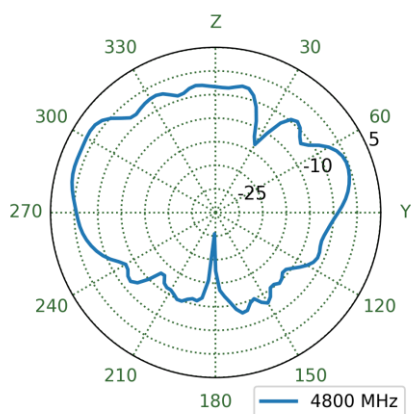
8.51 4G/5G-4 Patterns at 4800 MHz



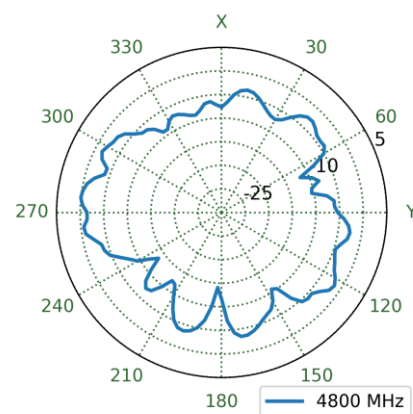
XZ Plane



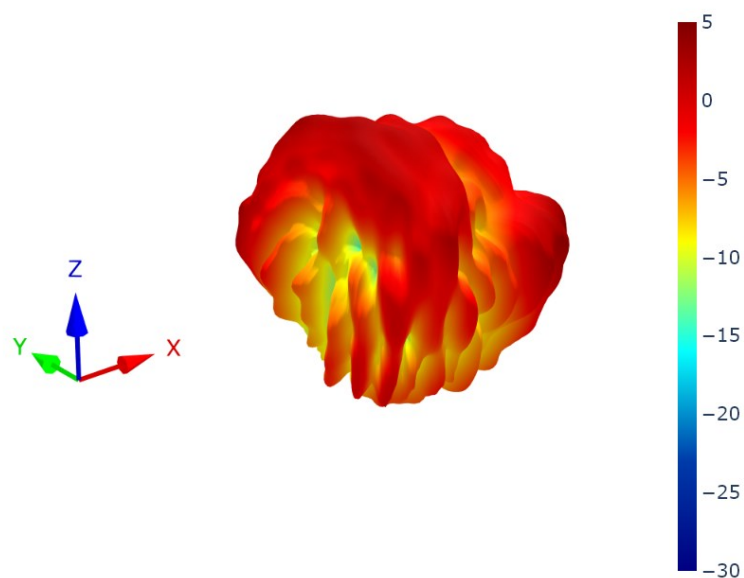
YZ Plane



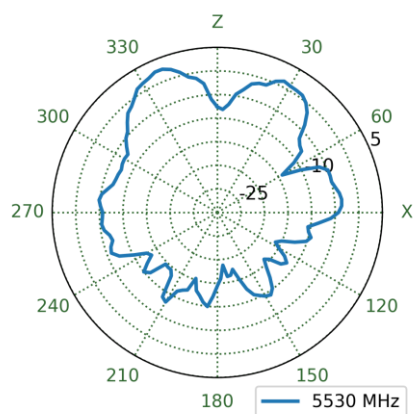
XY Plane



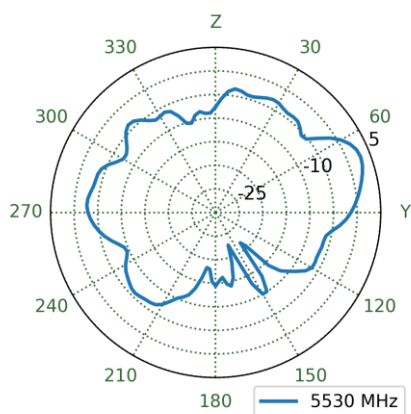
8.52 4G/5G-1 Patterns at 5530 MHz



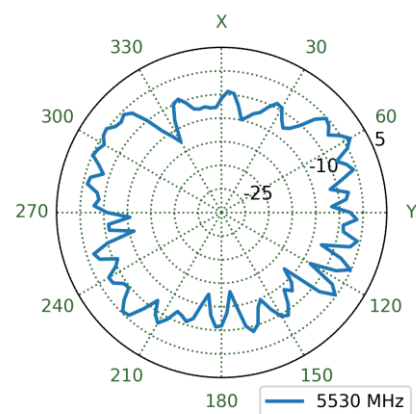
XZ Plane



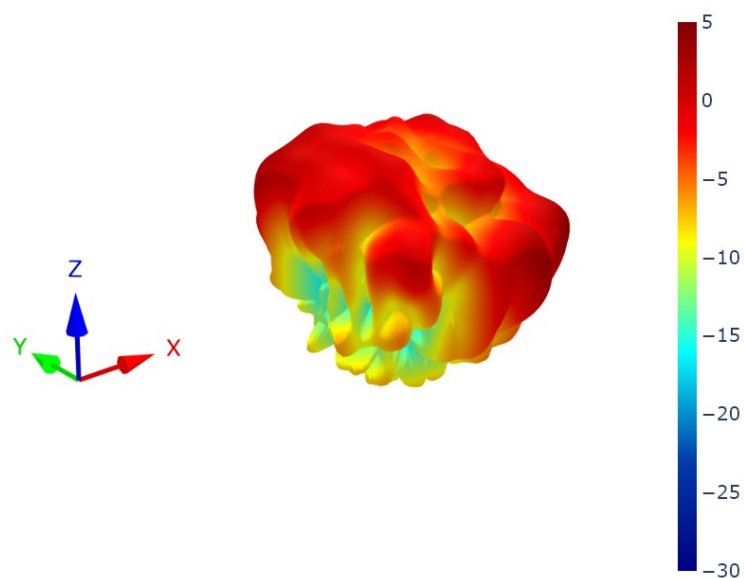
YZ Plane



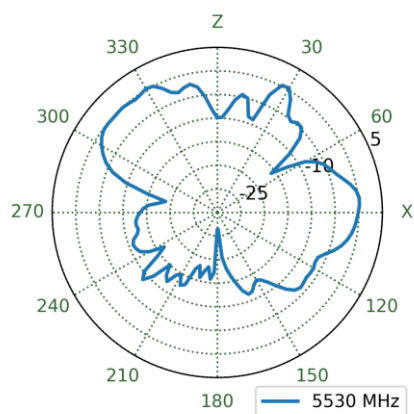
XY Plane



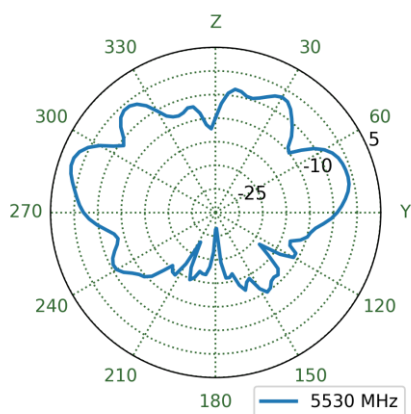
8.53 4G/5G-2 Patterns at 5530 MHz



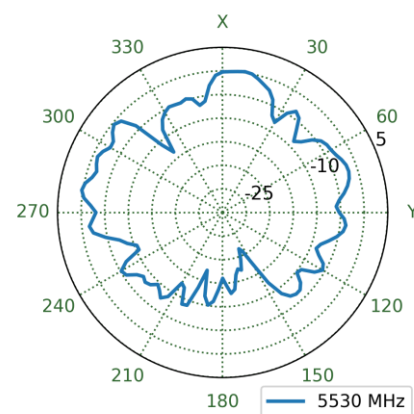
XZ Plane



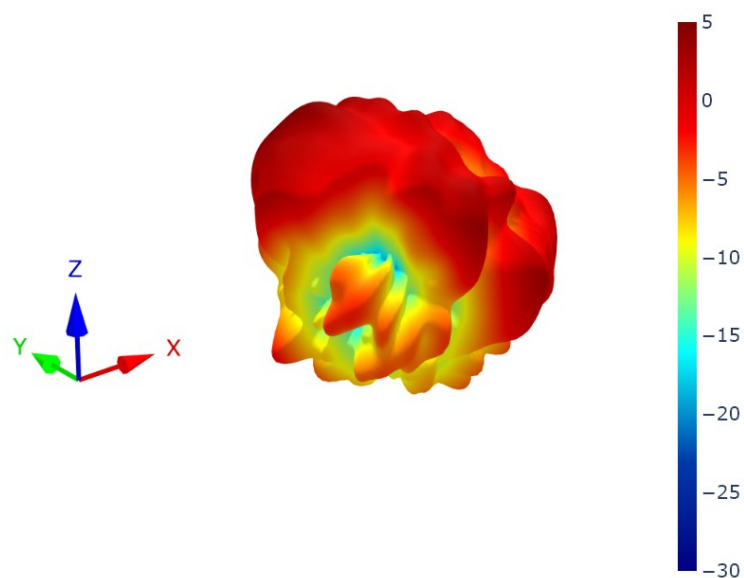
YZ Plane



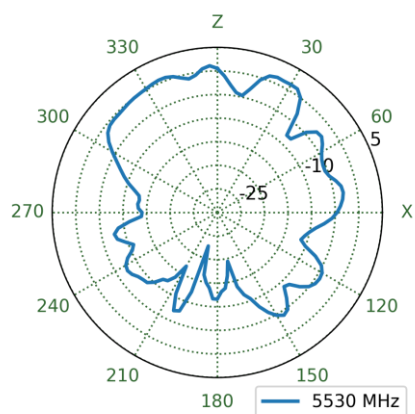
XY Plane



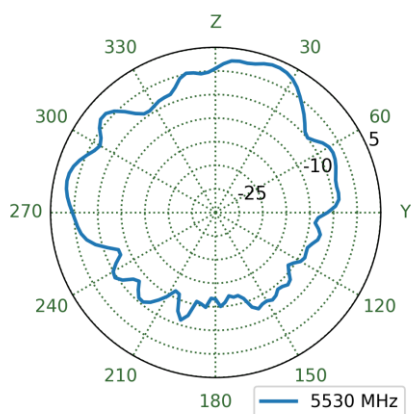
8.54 4G/5G-3 Patterns at 5530 MHz



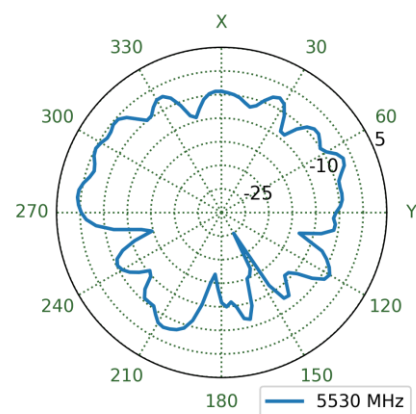
XZ Plane



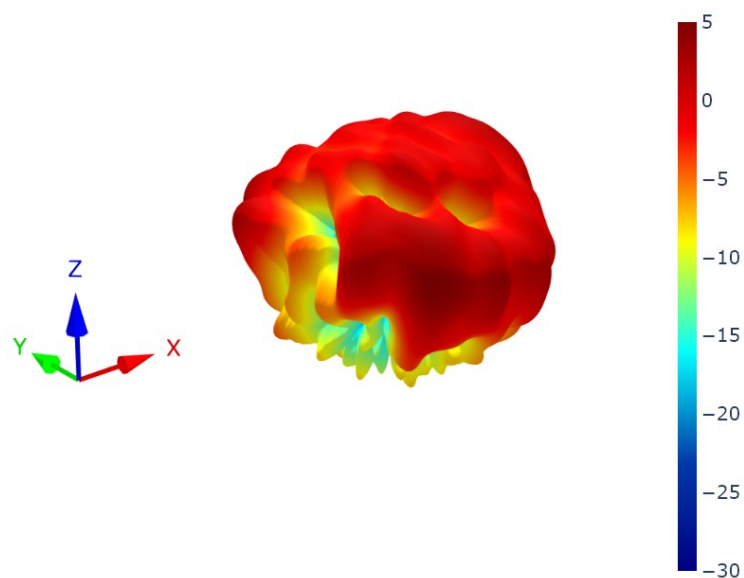
YZ Plane



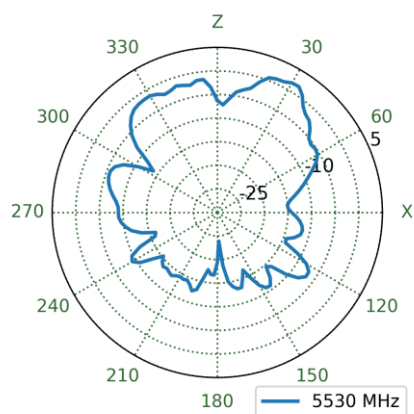
XY Plane



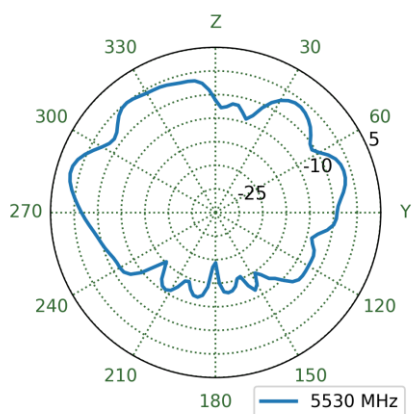
8.55 4G/5G-4 Patterns at 5530 MHz



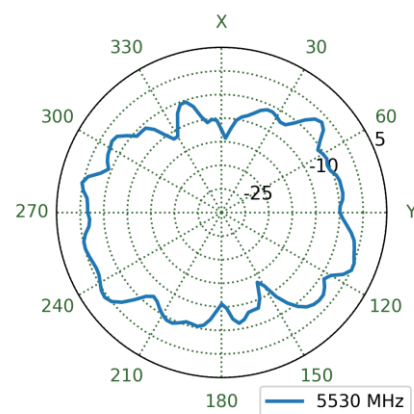
XZ Plane



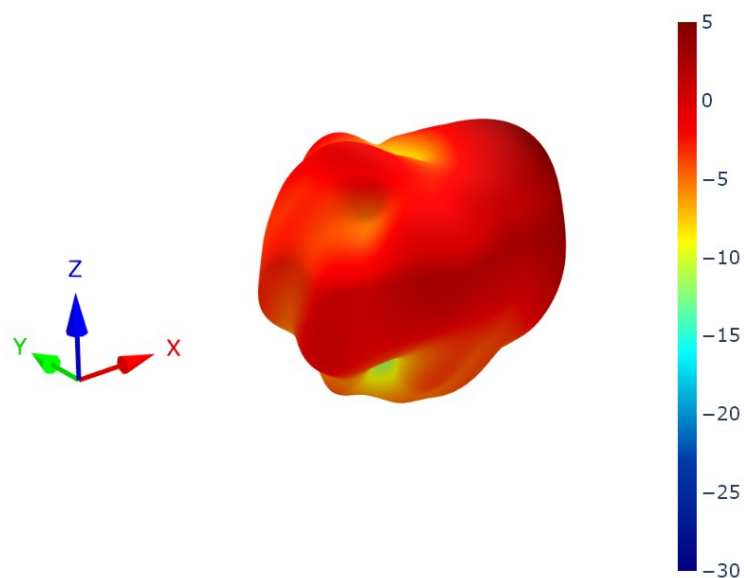
YZ Plane



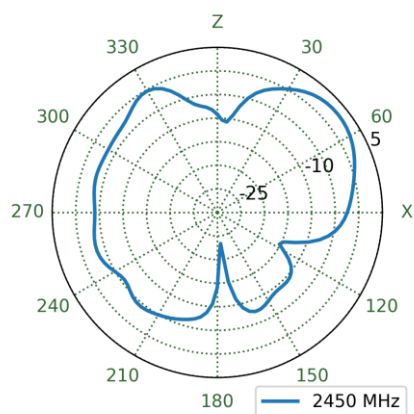
XY Plane



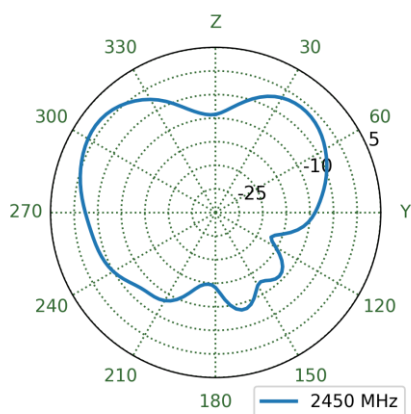
8.56 Wi-Fi1 Patterns at 2450 MHz



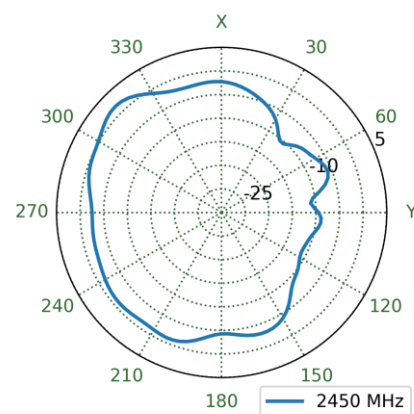
XZ Plane



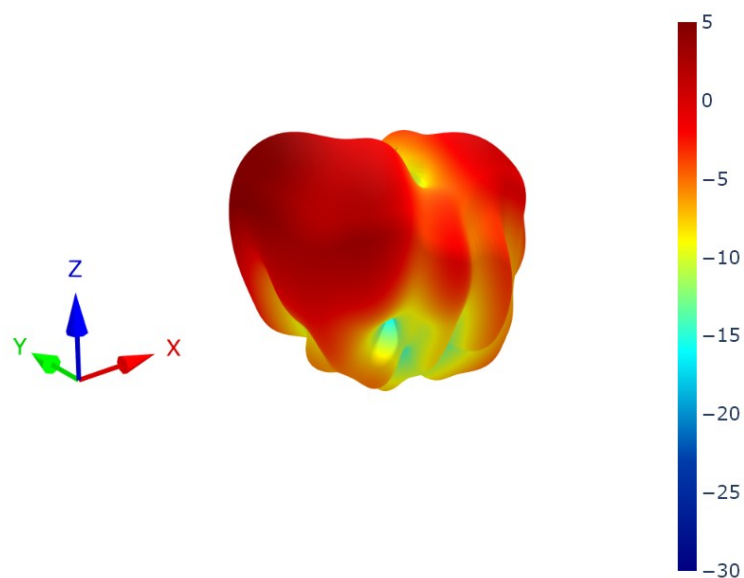
YZ Plane



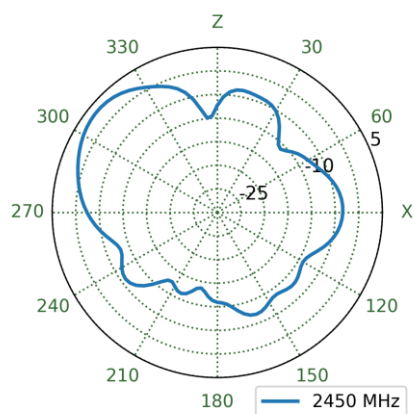
XY Plane



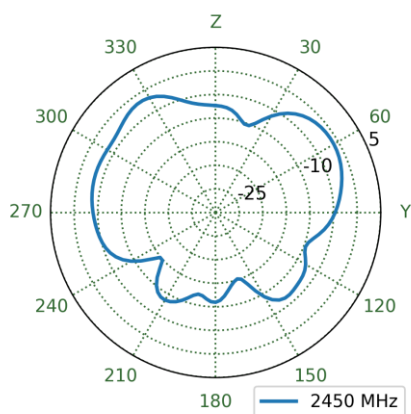
8.57 Wi-Fi2 Patterns at 2450 MHz



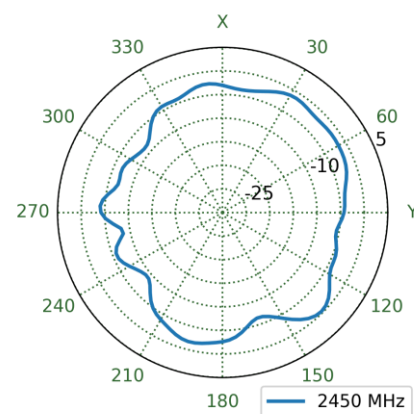
XZ Plane



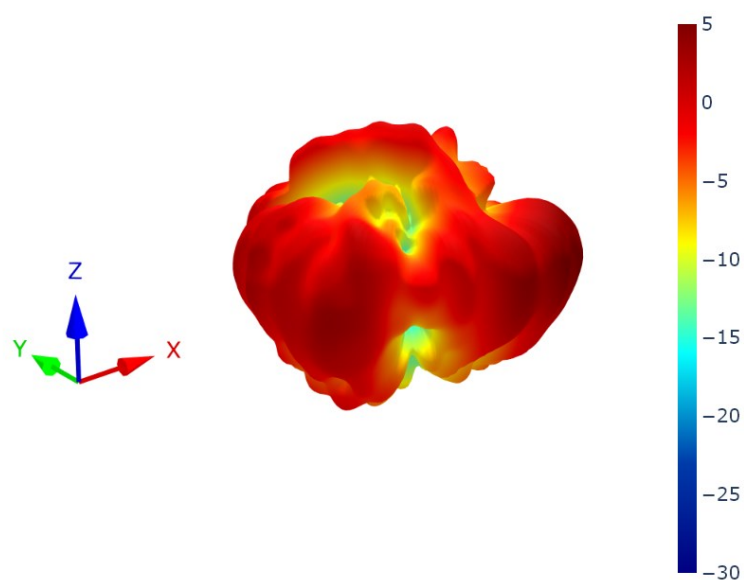
YZ Plane



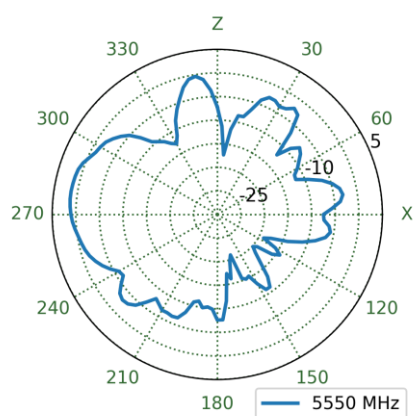
XY Plane



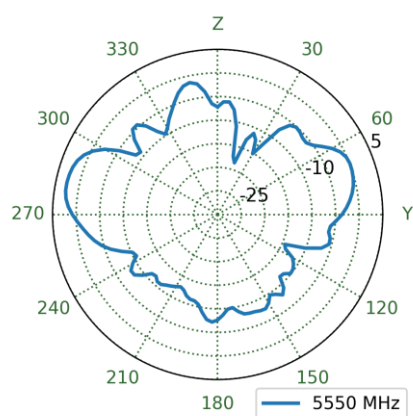
8.58 Wi-Fi1 Patterns at 5550 MHz



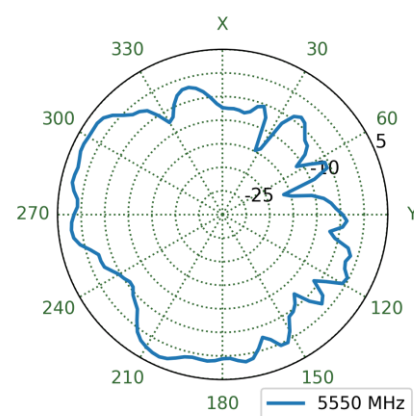
XZ Plane



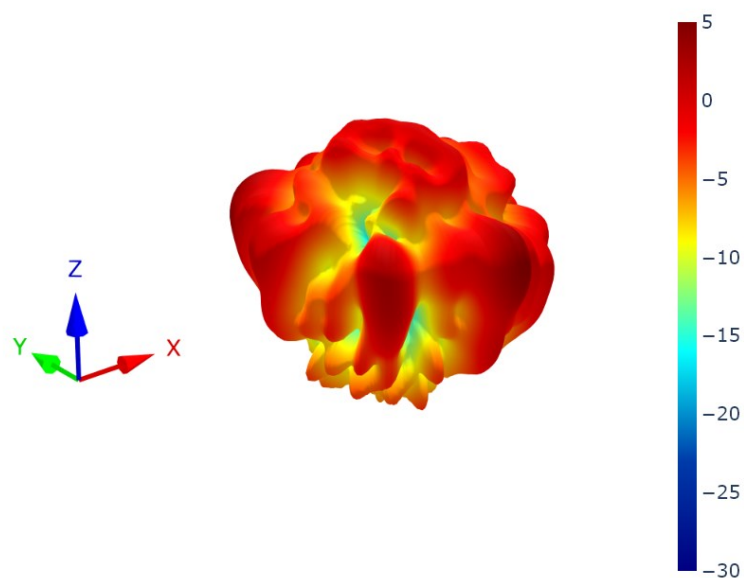
YZ Plane



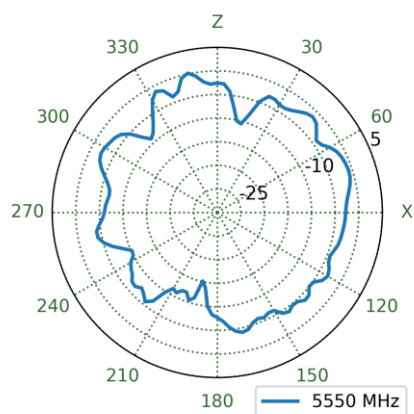
XY Plane



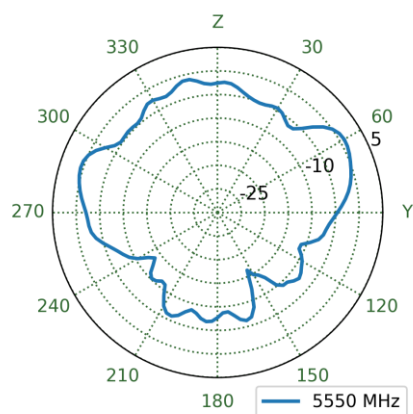
8.59 Wi-Fi2 Patterns at 5550 MHz



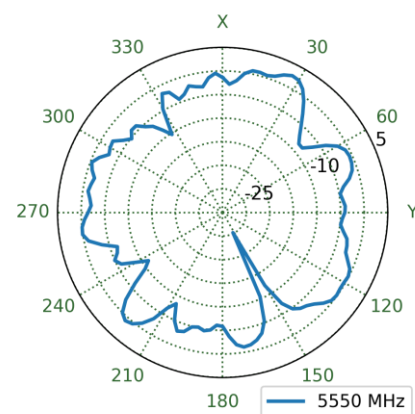
XZ Plane



YZ Plane



XY Plane



Changelog for the datasheet

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Date:	2024-05-02
Notes:	Initial Release
Author:	Gary West

Previous Revisions

