



# TAOGLAS®



# Datasheet

## Comet

### *Part No:*

*Black – MA582.A.001*

*White – MA582.W.001*

### *Description*

2-in-1 2x5G/4G MIMO Permanent Mount Puck Antenna with 2m 1.5DS and SMA(M)

### *Features:*

Permanent Mount Puck Antenna  
2\* 4G-5G Antenna 617 – 6000MHz  
IP67 Waterproof Enclosure  
Dims: 101 x 101 x 20 mm  
Cables: 2m of TGC-1.5DS  
Connectors: SMA(M)  
RoHS & Reach Compliant

|           |                                     |           |
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|  |                  |           |
|--|------------------|-----------|
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# 1. Introduction



The Taoglas Comet MA582 is a low-profile, puck-style, screw-mount antenna that integrates two high-performance 5G/4G MIMO cellular elements. Covering all worldwide cellular frequencies from 600 MHz to 6 GHz, it achieves stable gain and efficiency that are typically difficult to realize in such a compact 101 × 101 × 20 mm form factor.

A key differentiator of the Comet MA58x series is its ability to maintain strong performance when mounted directly on metallic enclosures. Competing antennas typically experience severe efficiency losses in the lower 5G/4G bands (617–960 MHz), but the Comet was designed specifically to overcome this challenge. Leveraging Taoglas’ proprietary all-metal PIFA design and advanced bandwidth optimization techniques, the MA58x series delivers consistently higher efficiency and more reliable radiation even when installed on metal housings with feed cables routed inside.

This robust design ensures dependable connectivity where other low-profile antennas fail, making the Comet series particularly well-suited for fleet and transport telematics, public safety, gateways, industrial routers, and other mission-critical applications that demand both a discreet form factor and reliable operation on metallic or equipment surfaces.

## Typical Applications Include:

- Telematics, Transport and Fleet Management
- Gateways and Industrial Routers
- Connected Kiosks, Digital Signage, and Point of Sale Terminals
- Public Safety and Critical Communications
- Construction, Mining, and Heavy Equipment

The Comet has been designed as a permanent screw-mount solution, enabling installation in applications where a strong and secure mechanical attachment is required, ensuring reliable performance even in high-vibration or harsh environments. The cellular MIMO connections utilize 2 m of TGC-1.5DS low-loss coaxial cable with SMA(M) connectors as standard. Customized cable and connector versions are also available upon request. Contact your regional Taoglas customer support team for further information.

## 2. Specification

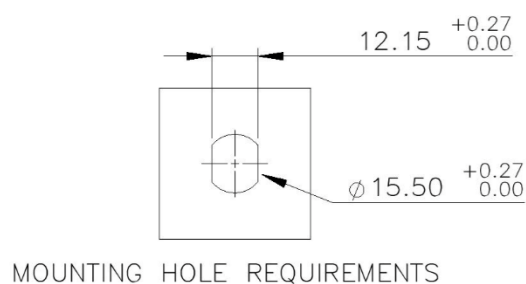
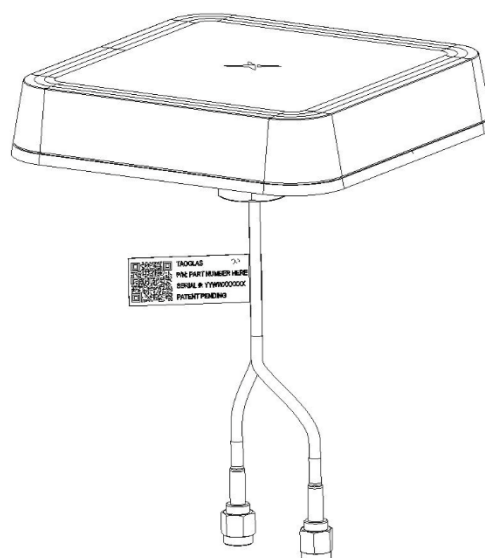
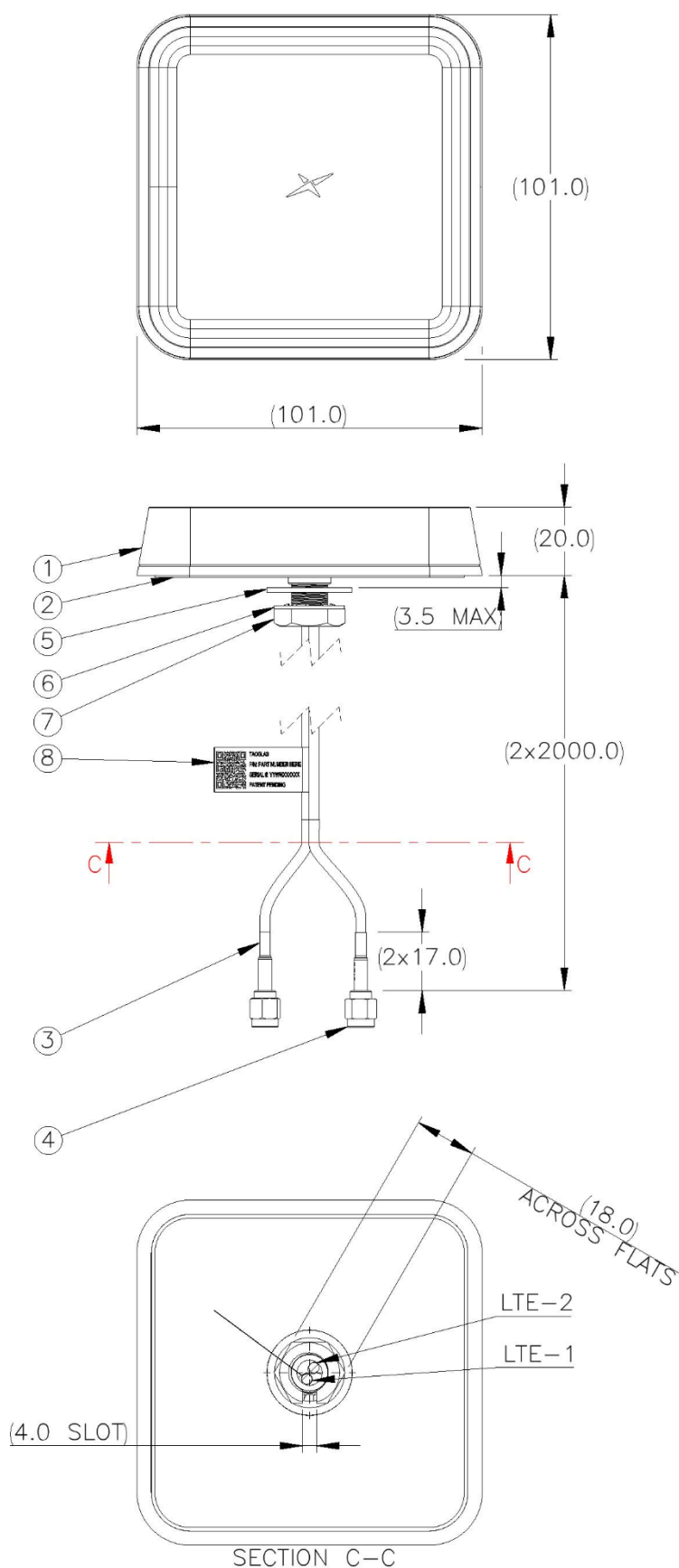
| Electrical                                 |                 |                                |                |                   |                 |             |              |                   |                  |
|--------------------------------------------|-----------------|--------------------------------|----------------|-------------------|-----------------|-------------|--------------|-------------------|------------------|
| Band                                       | Frequency (MHz) | Measurement                    | Efficiency (%) | Average Gain (dB) | Peak Gain (dBi) | Impedance   | Polarization | Radiation Pattern | Max. input power |
| 5GNR/4G Band 71                            | 617-698         | 4G-5G 1 - 30x30cm Ground Plane | 34.2           | -4.65             | 2.32            | 50 $\Omega$ | Linear       | Omni directional  | 10W              |
|                                            |                 | 4G-5G 1 - Free Space           | 20.2           | -6.94             | 1.66            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - 30x30cm Ground Plane | 32.5           | -4.89             | 6.39            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - Free Space           | 27.6           | -5.59             | 4.81            |             |              |                   |                  |
| 4G/3G Band 12,13,14,17,28,29               | 698-824         | 4G-5G 1 - 30x30cm Ground Plane | 38.3           | -4.17             | 2.94            |             |              |                   |                  |
|                                            |                 | 4G-5G 1 - Free Space           | 32.0           | -4.95             | 2.83            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - 30x30cm Ground Plane | 38.0           | -4.20             | 7.01            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - Free Space           | 33.4           | -4.77             | 6.29            |             |              |                   |                  |
| 4G/3G/NB-IoT/Cat M Band 5,8,18,19,20,26,27 | 824-960         | 4G-5G 1 - 30x30cm Ground Plane | 33.9           | -4.70             | 2.94            |             |              |                   |                  |
|                                            |                 | 4G-5G 1 - Free Space           | 48.2           | -3.17             | 2.83            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - 30x30cm Ground Plane | 50.2           | -2.99             | 6.18            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - Free Space           | 43.1           | -3.66             | 6.35            |             |              |                   |                  |
| 5GNR/4G Band 21,32,74,75,76                | 1427-1518       | 4G-5G 1 - 30x30cm Ground Plane | 37.3           | -4.29             | 4.82            |             |              |                   |                  |
|                                            |                 | 4G-5G 1 - Free Space           | 20.7           | -6.85             | 2.73            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - 30x30cm Ground Plane | 36.9           | -4.33             | 5.58            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - Free Space           | 52.3           | -2.82             | 5.57            |             |              |                   |                  |
| 4G/3G Band 1,2,3,4,9,23,25,35,39,66        | 1710-2200       | 4G-5G 1 - 30x30cm Ground Plane | 49.5           | -3.05             | 5.89            |             |              |                   |                  |
|                                            |                 | 4G-5G 1 - Free Space           | 45.6           | -3.41             | 5.97            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - 30x30cm Ground Plane | 34.6           | -4.61             | 5.24            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - Free Space           | 44.4           | -3.53             | 5.46            |             |              |                   |                  |
| 4G/3G Band 7,30,38,40,41                   | 2300-2690       | 4G-5G 1 - 30x30cm Ground Plane | 33.3           | -4.78             | 5.81            |             |              |                   |                  |
|                                            |                 | 4G-5G 1 - Free Space           | 41.2           | -3.85             | 4.79            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - 30x30cm Ground Plane | 36.2           | -4.41             | 5.04            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - Free Space           | 45.2           | -3.45             | 6.44            |             |              |                   |                  |
| LTE5200/Wi-Fi5800                          | 5150-5925       | 4G-5G 1 - 30x30cm Ground Plane | 20.1           | -6.96             | 4.68            |             |              |                   |                  |
|                                            |                 | 4G-5G 1 - Free Space           | 28.1           | -5.51             | 4.98            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - 30x30cm Ground Plane | 30.1           | -5.21             | 4.42            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - Free Space           | 28.1           | -5.51             | 1.58            |             |              |                   |                  |
| 5GNR/4G Band 22,42,48,77,78,79             | 3300-5000       | 4G-5G 1 - 30x30cm Ground Plane | 21.7           | -6.63             | 4.91            |             |              |                   |                  |
|                                            |                 | 4G-5G 1 - Free Space           | 23.7           | -6.25             | 5.03            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - 30x30cm Ground Plane | 20.0           | -7.00             | 5.64            |             |              |                   |                  |
|                                            |                 | 4G-5G 2 - Free Space           | 21.0           | -6.77             | 4.16            |             |              |                   |                  |



| Mechanical     |                  |
|----------------|------------------|
| Dimensions     | 101 x 101 x 20mm |
| Weight         | 175g             |
| Material       | ASA              |
| Connector      | SMA (M)          |
| Cable          | 2m of 1.5DS      |
| Thead Diameter | M12              |

| Environmental          |                            |
|------------------------|----------------------------|
| Waterproof Rating      | IP67                       |
| Operation Temperature  | -40°C to 85°C              |
| Storage Temperature    | -40°C to 85°C              |
| Relative Humidity      | Non-condensing 65°C 95% RH |
| RoHs & REACH Compliant | Yes                        |

### 3. Mechanical Drawing



| ITEM NO. | DESCRIPTION                                                                  | Color                                                 | QTY. |
|----------|------------------------------------------------------------------------------|-------------------------------------------------------|------|
| 1        | Antenna                                                                      | RAL 9003-P Signal White, Logo Pantone 2965C Navy Blue | 1    |
| 2        | Foam Gasket with Two Sided PSA-Comet                                         | Black                                                 | 1    |
| 3        | Cable Assy SMA(M) LTE-1                                                      | Cable Black, Heat Shrink Red With White Text          | 1    |
| 4        | Cable Assy SMA(M) LTE-2                                                      | Cable Black, Heat Shrink Red With White Text          | 1    |
| 5        | G30 Gasket POM/MITSUBISHI ENGINEERING-PLASTICS CORP-F20-03 PANTONE Red(199C) | Red                                                   | 1    |
| 6        | M12 Internal Tooth Washer                                                    | N/A                                                   | 1    |
| 7        | Hex Nut, M12 x 1P x 5mm, 4.0mm Slot                                          | N/A                                                   | 1    |
| 8        | QR Label                                                                     | White                                                 | 1    |

## 4. Installation Recommendations

### Installation Instructions

#### Comet MA58x Series

#### Low Profile Permanent Mount Combination Antenna



##### A Introduction

The **Taoglas Comet MA58x Series** is a low-profile, puck-style, screw-mount antenna that integrates two high-performance 5G/4G MIMO cellular elements and one GNSS element. Covering all worldwide cellular frequencies from 600 MHz to 6 GHz, along with GPS, GLONASS, and BeiDou bands, it achieves stable gain and efficiency that are typically difficult to realize in such a compact 101 × 101 × 20 mm form factor.



##### Electrical Safety

The Comet can contains an active GPS/GNSS antenna.

Rated voltage: 1.8-5.5VDC Rated current: 10mA maximum

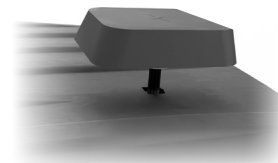
**The supply to this device must be provided with overcurrent protection of 1A maximum.**

**Power consumption @ 1.8-5.5V ; 10 mA**

##### B Mounting & Location

Secured via a Ø12mm diameter threaded mounting stud, The Comet is recommended to be fitted by drilling a Ø13mm hole will need to be drilled in the roof or enclosure surface.

When mounting on a vehicle roof panel ensure to mount on a flat surface, and measure for a central position. Care should be taken to mount the Comet antenna as far as possible from other roof-mounted features such as the aircon unit, light bar etc.



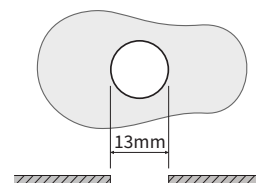
##### Sealing

In order to ensure that the installation is properly sealed against the mounting surface care must be taken regarding curvature of the mounting panel. It is highly recommended to install the antenna on a clean, flat and level surface. After installation the compression of the foam gasket and adhesive against the mounting panel should be checked and a small bead of neutral cure silicone sealant can be applied around the periphery of the enclosure if required.

##### C Surface Preparation

When preparing to drill the hole, mask the area around the hole position to protect the surface. If an existing OEM antenna mounting hole is not present, drill a pilot hole and increase the hole size to Ø12mm (0.472"). Ensure the drill bit does not contact the headliner. Then deburr and clean the area around the hole carefully removing all waste.

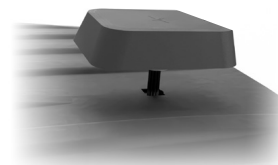
Remove paint and primer from under panel surface to ensure adequate earth contact by washer and nut. Apply petroleum jelly or paint around cut edge of the hole to prevent corrosion



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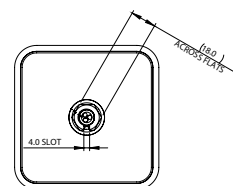
## D Adhesive Foam Gasket

On the underside of the antenna there is a 3M adhesive foam gasket. Peel away the 3M adhesive protection and feed the cables through the hole. Position the antenna over the hole and press down onto the panel with pressure. This adhesion will ensure the antenna is securely mounted and will also allow for extremely minimal curvature on the roof of a vehicle.



## E Securing the Mount

A split nut is used to easily fit onto the thread through the cables. The nut is attached from the underside of the panel, it should easily twist onto the thread and then secured in place with a final tighten with a spanner. After tightening, double check the antenna to make sure that it is properly secured.



## F Cable Routing and Connection

The cables supplied are RG-174 and TGC-1.5DS for all feeds. The heatshrink will denote which cable is which for ease of installation. Connect each individual connector to the correct port of the router, if any cable is unused please fit a 50Ω terminator to the individual connection.



## G Notices



### Caution

To comply with FCC RF Exposure requirements in section 1.1310 of the FCC Rules, antennas used with this device must be installed to provide a separation distance of at least 20 cm from all persons to satisfy RF exposure compliance.



### Warning

**Do not** operate the equipment in an explosive atmosphere.



### European Waste Electronic Equipment Directive 2012/19/EU

Please ensure that your old Waste Electricals and Electronics are recycled do not throw them away into standard waste.



### Hazardous Substances Directive (RoHS) 2011/65/EU / 2015/863/EU Directive 2014/53/EU Radio Equipment Directive (RED)

#### View CE Certificate online:

[www.taoglas.com/assets/ce/CE-Declaration-of-Conformity-RoHS-RED-Patriot-Series.pdf](http://www.taoglas.com/assets/ce/CE-Declaration-of-Conformity-RoHS-RED-Patriot-Series.pdf)

#### Harmonised Standards and References:

**EN 301 489-1 (V2.2.3):** ElectroMagnetic Compatibility (EMC) standard for radio equipment and services;  
Part 1: Common technical requirements. Referencing CENELEC EN 55032 Class B.

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## 5. Packaging



- ✓ 1 PCS / PE bag
- ✓ PE bag(mm): 200x130 (Ref)
- ✓ Weight (g): 175 ±3%
- ✓ SPQ Label

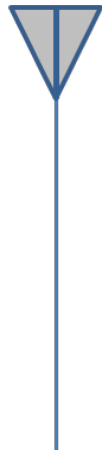


- ✓ 50 PCS / Carton
- ✓ Carton(mm): 370x370x300
- ✓ Weight (Kg): 9.65 ±3%
- ✓ Carton Label

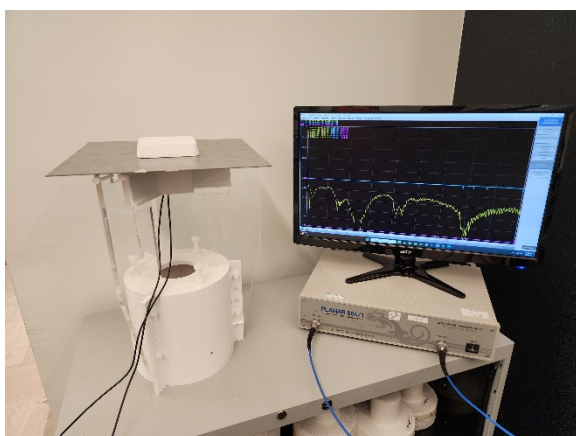
## 6. Antenna Characteristics

### 6.1 Test Setup

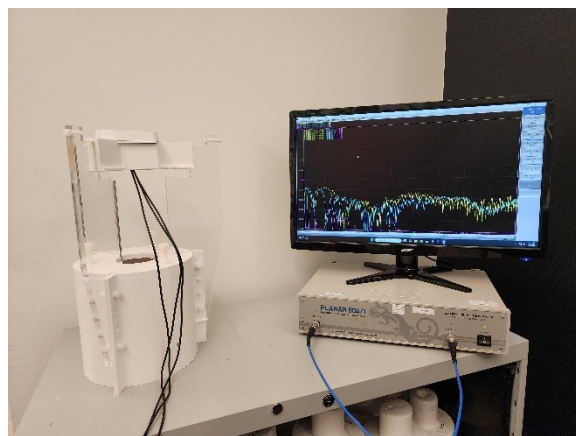
AUT



Vector Network Analyzer



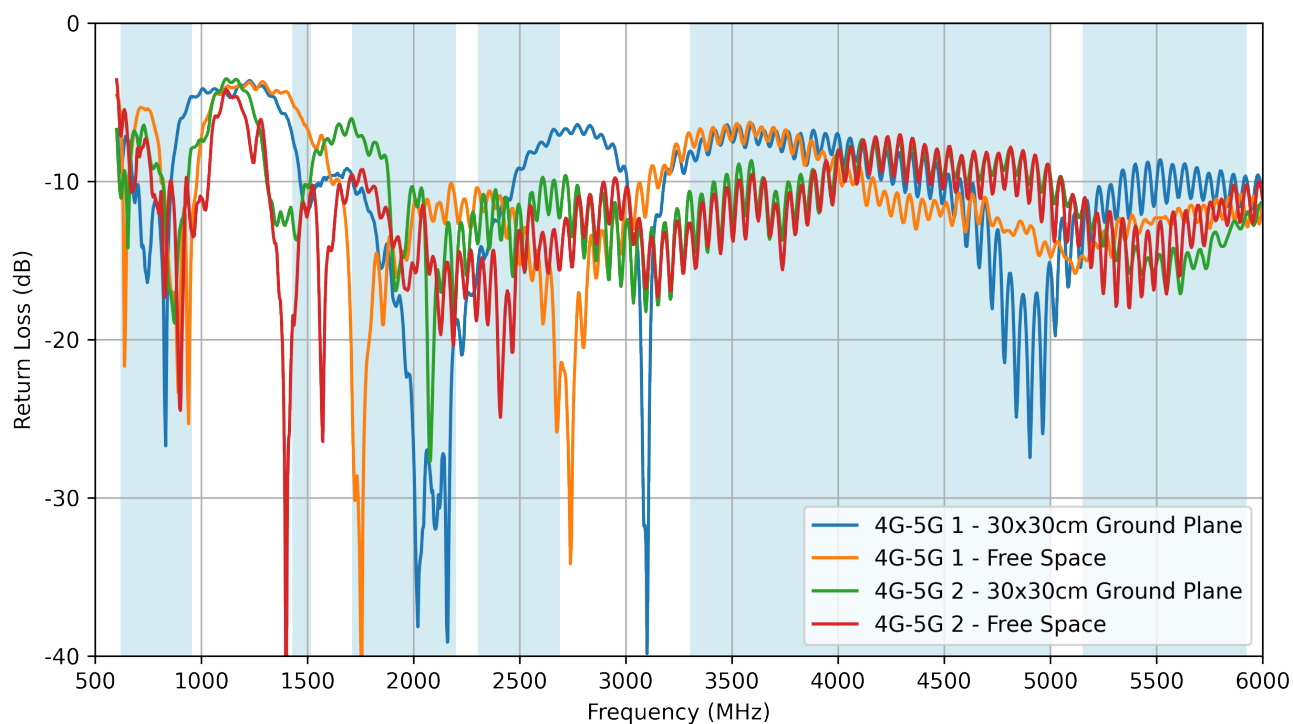
Set-up on a 30x30cm Ground Plane



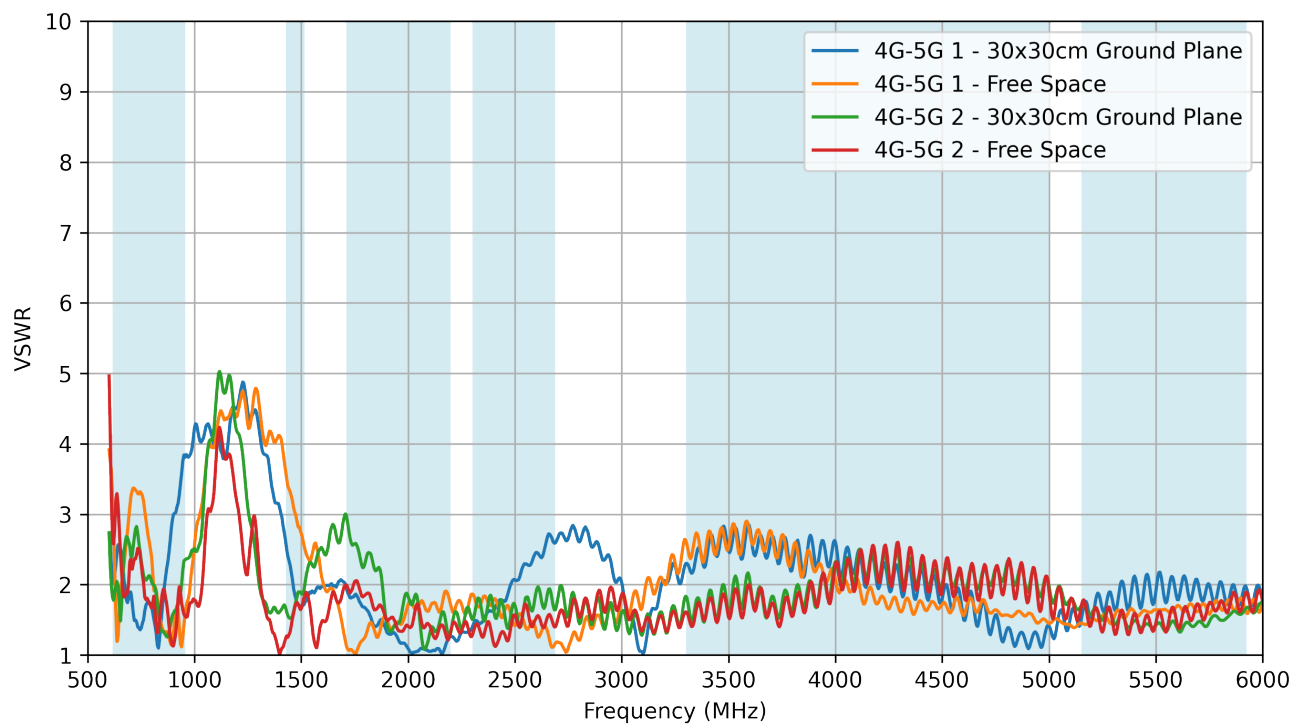
Set-up in Free Space



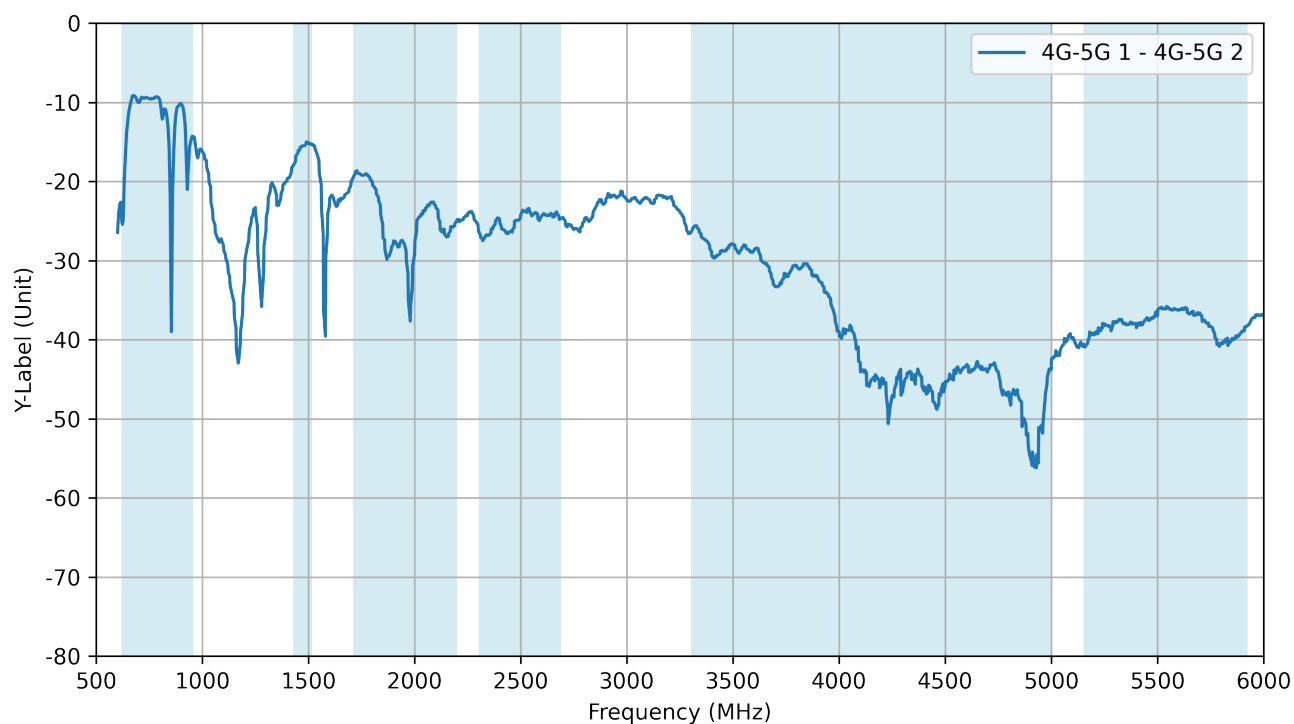
## 6.2 Return Loss



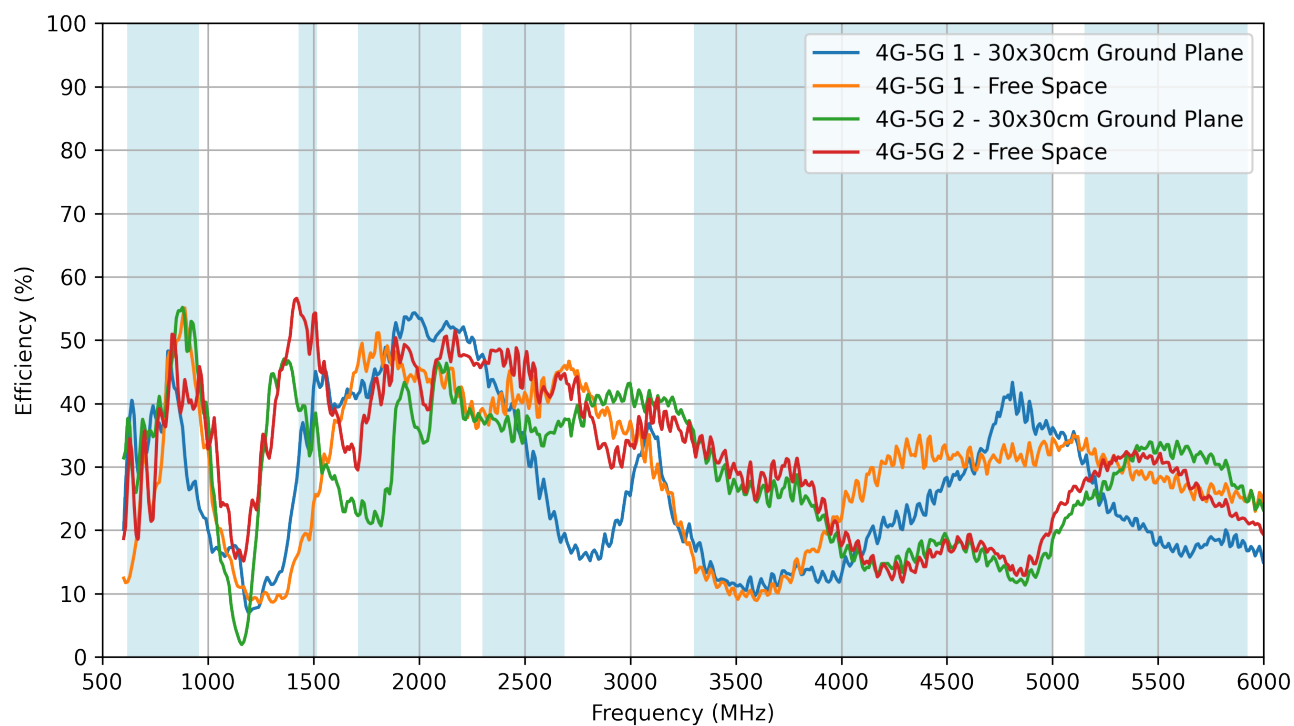
## 6.3 VSWR



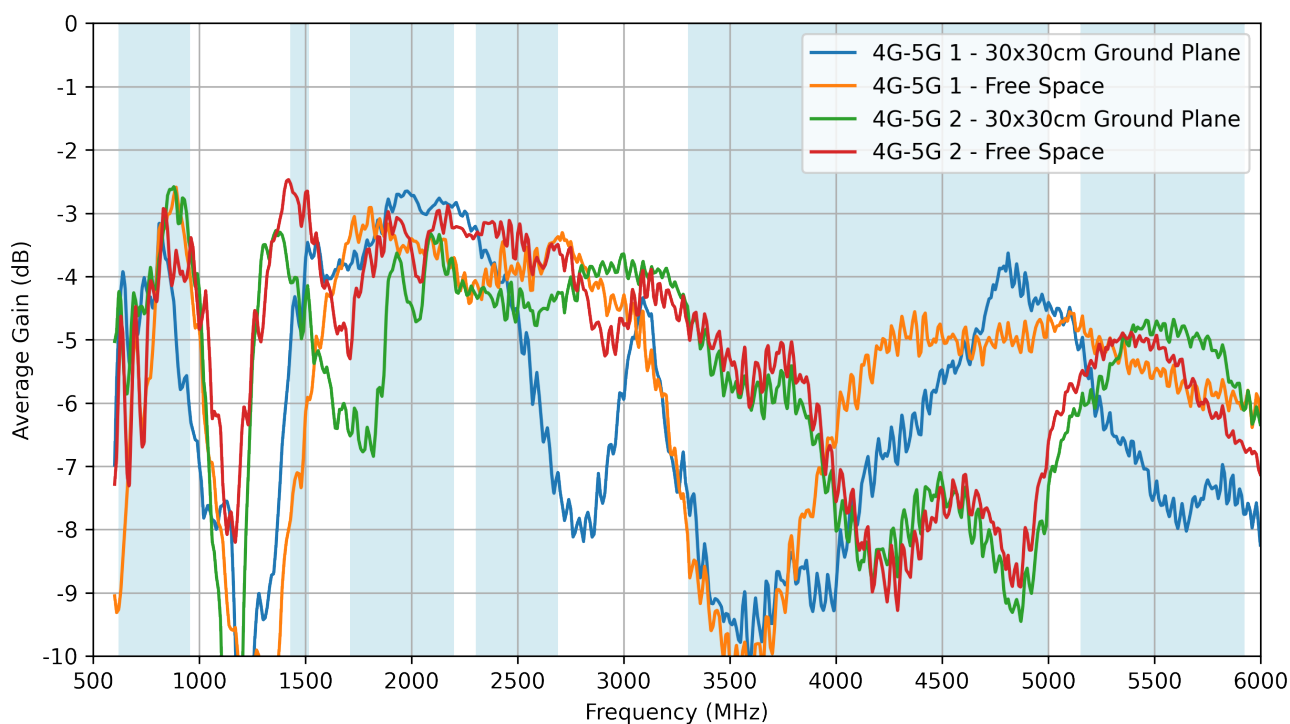
## 6.4 Isolation



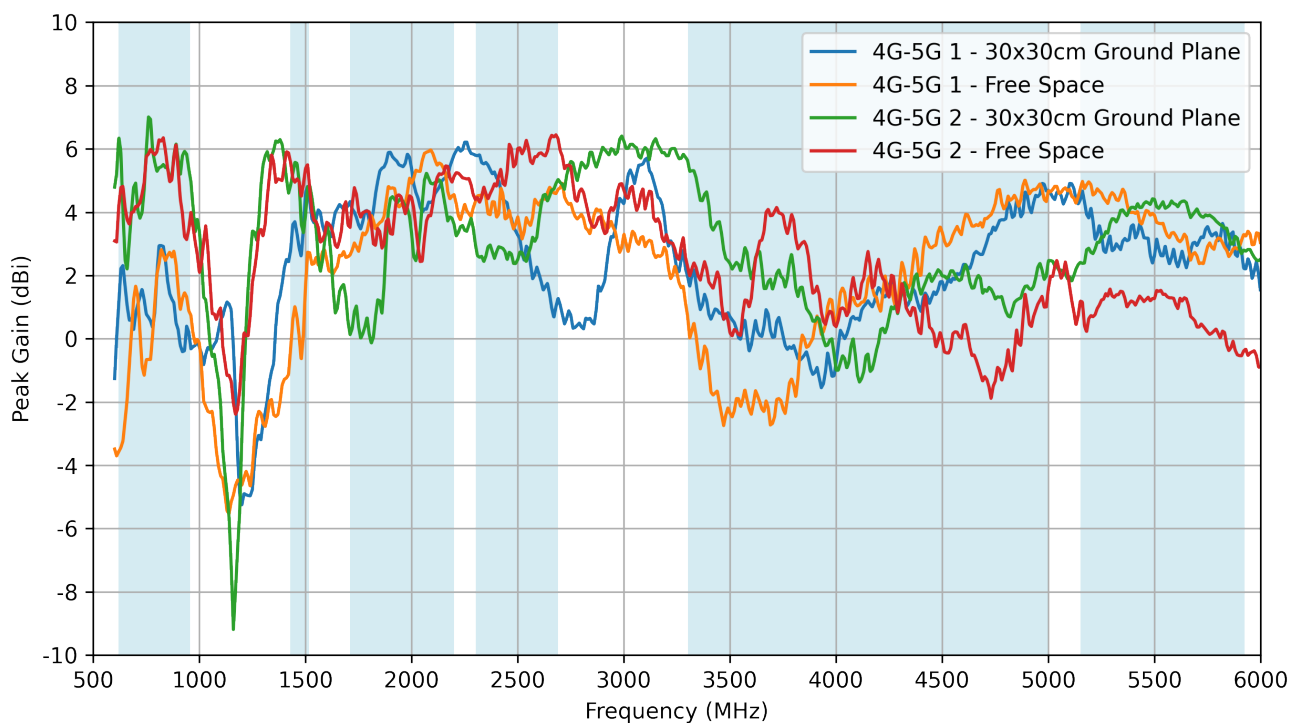
## 6.5 Efficiency



## 6.6 Average Gain

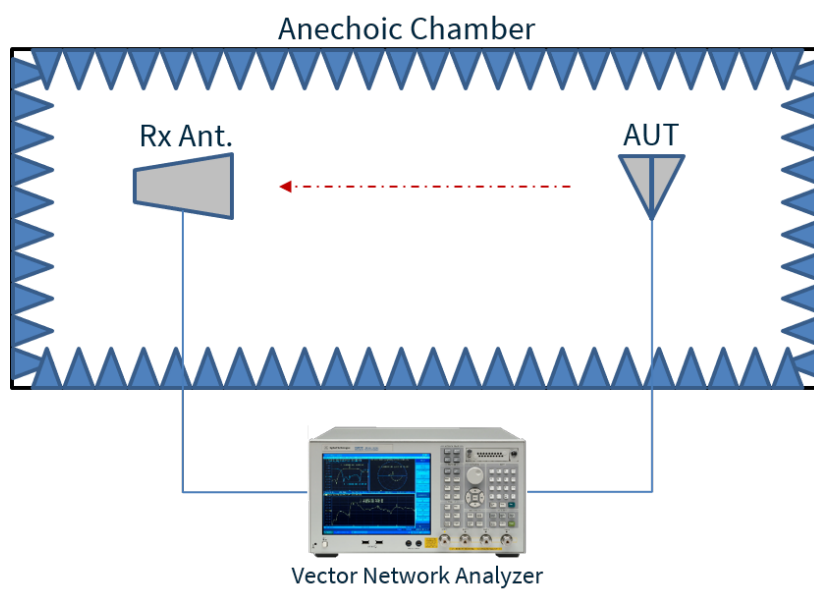


## 6.7 Peak Gain



## 7. Radiation Patterns

### 7.1 Test Setup

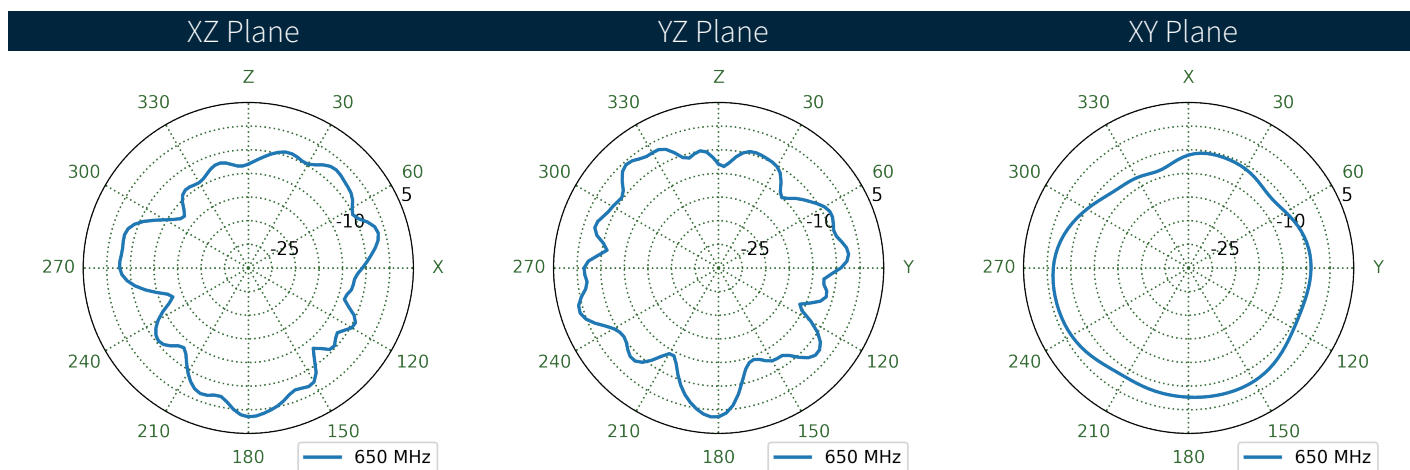
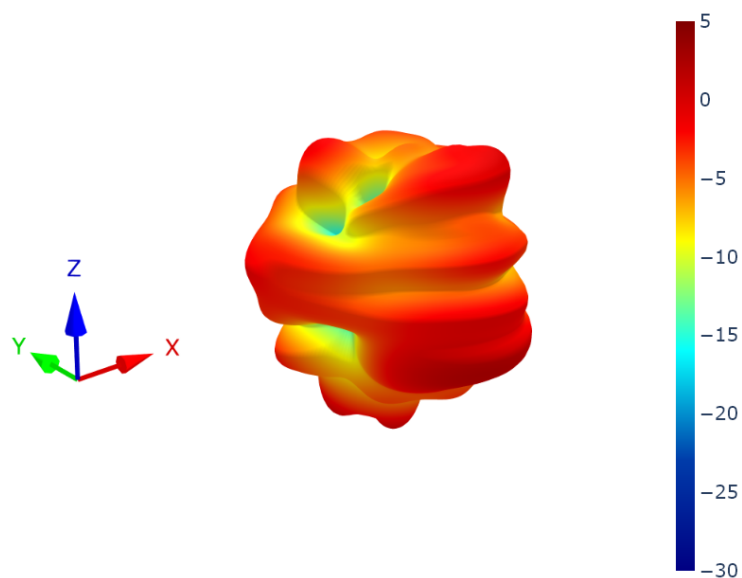


Set-up on a 30x30cm Ground Plane

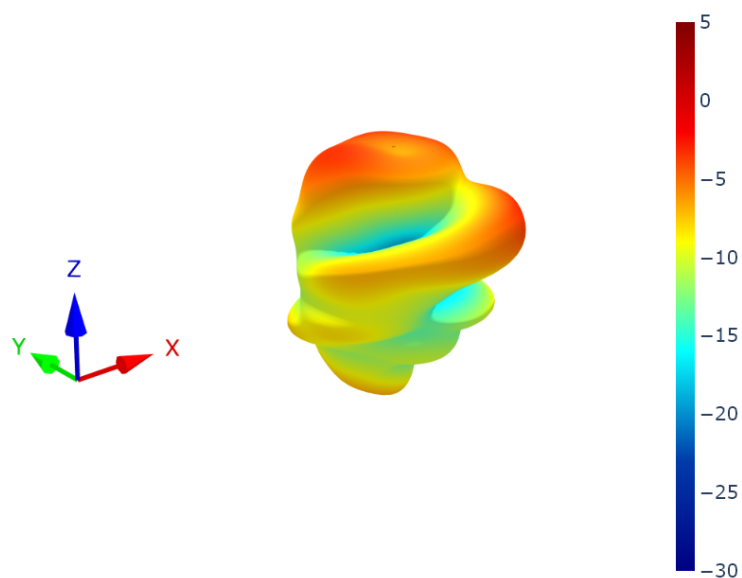


Set-up in Free Space

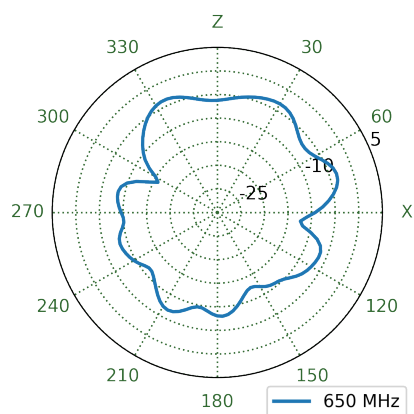
## 7.2 4G-5G 1 - 30x30cm Ground Plane Patterns at 650 MHz



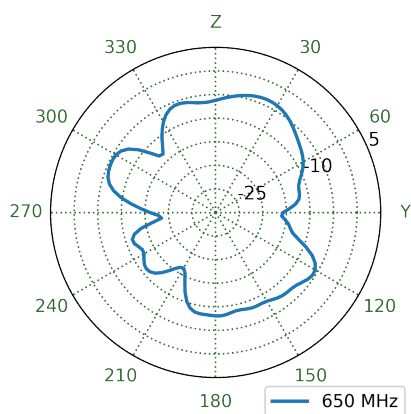
## 7.3 4G-5G 1 - Free Space Patterns at 650 MHz



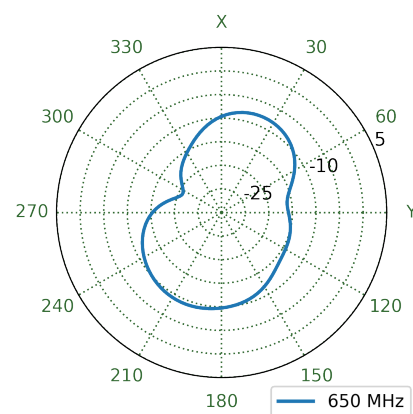
XZ Plane



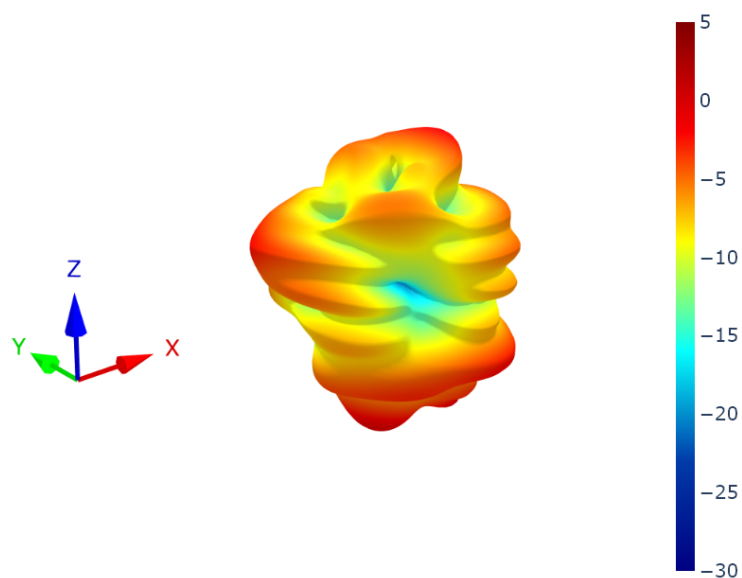
YZ Plane



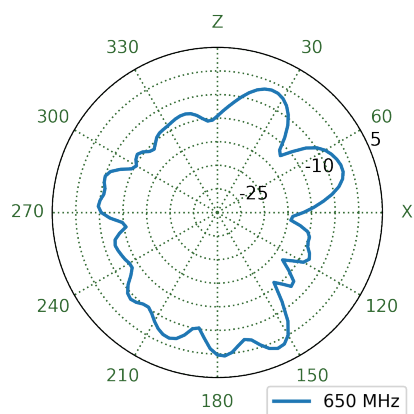
XY Plane



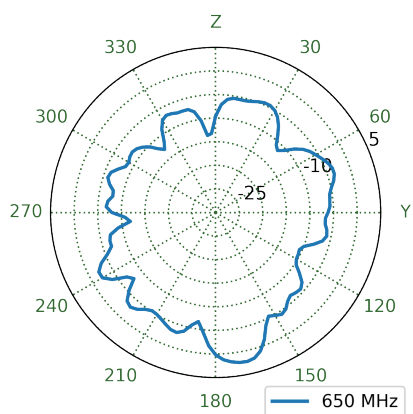
## 7.4 4G-5G 2 - 30x30cm Ground Plane Patterns at 650 MHz



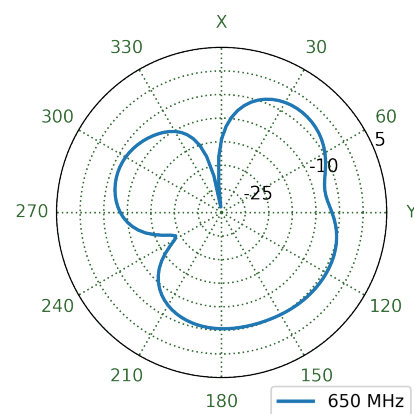
XZ Plane



YZ Plane

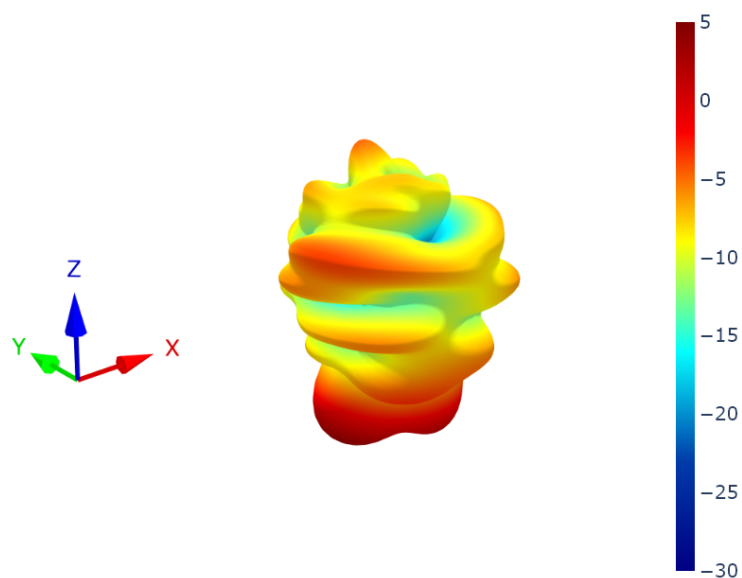


XY Plane

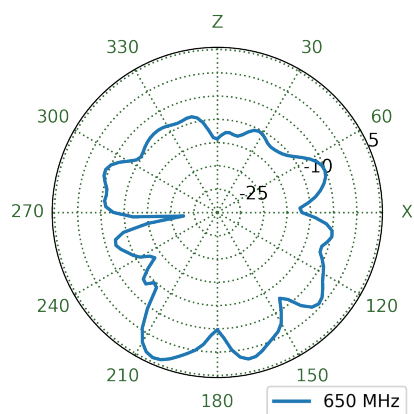




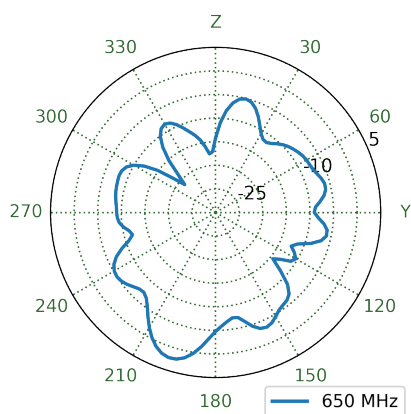
## 7.5 4G-5G 2 - Free Space Patterns at 650 MHz



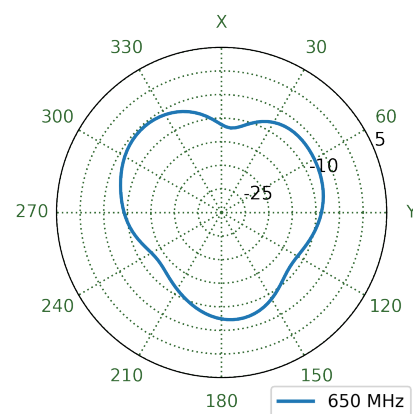
XZ Plane



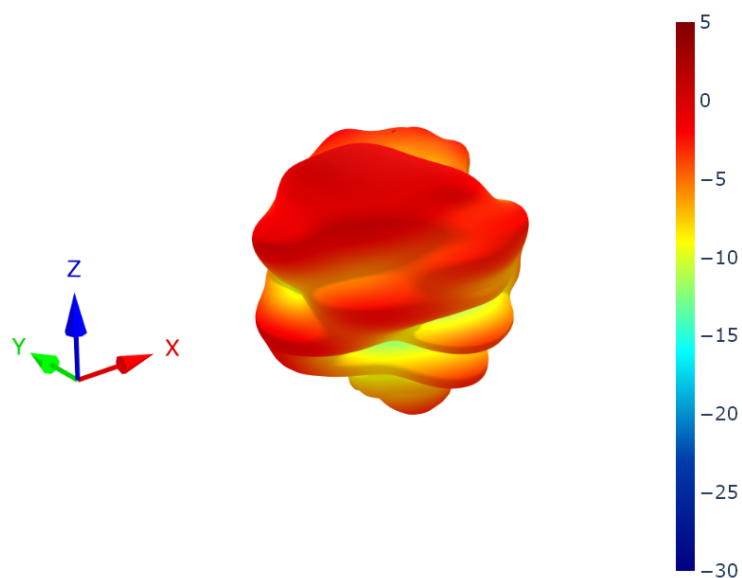
YZ Plane



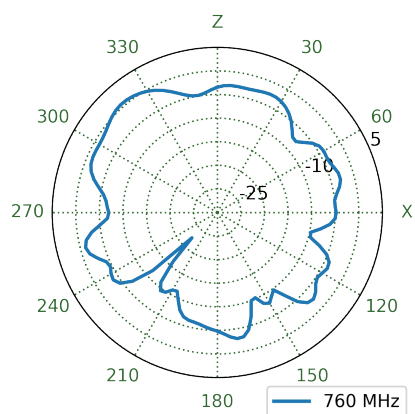
XY Plane



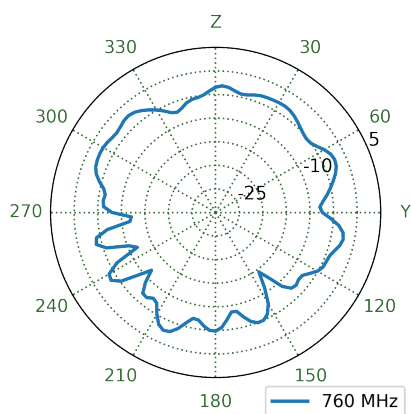
## 7.6 4G-5G 1 - 30x30cm Ground Plane Patterns at 760 MHz



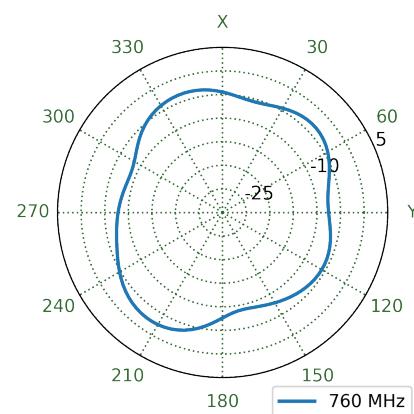
XZ Plane



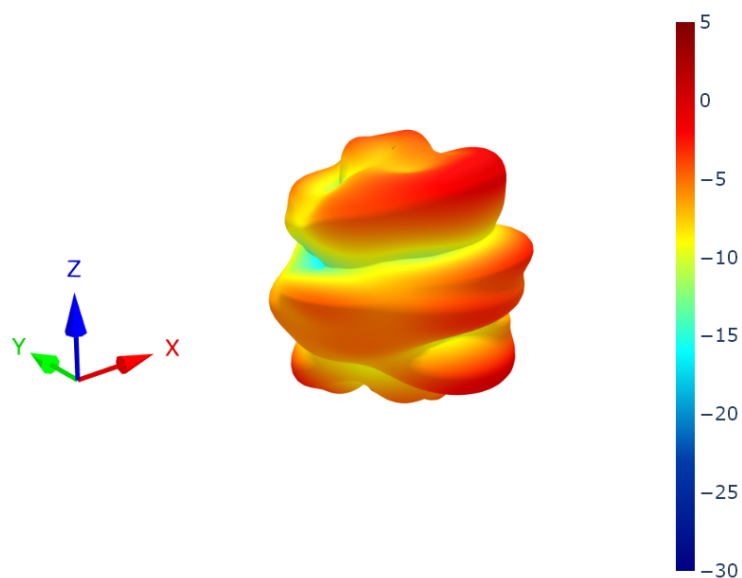
YZ Plane



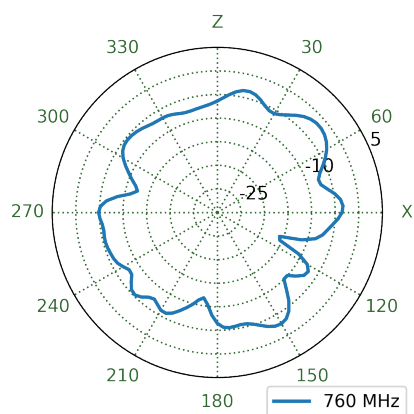
XY Plane



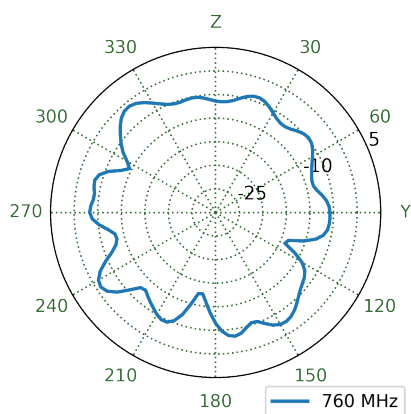
## 7.7 4G-5G 1 - Free Space Patterns at 760 MHz



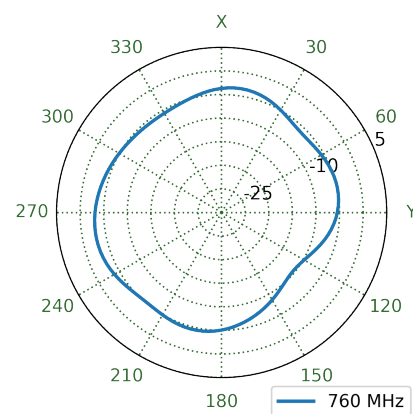
XZ Plane



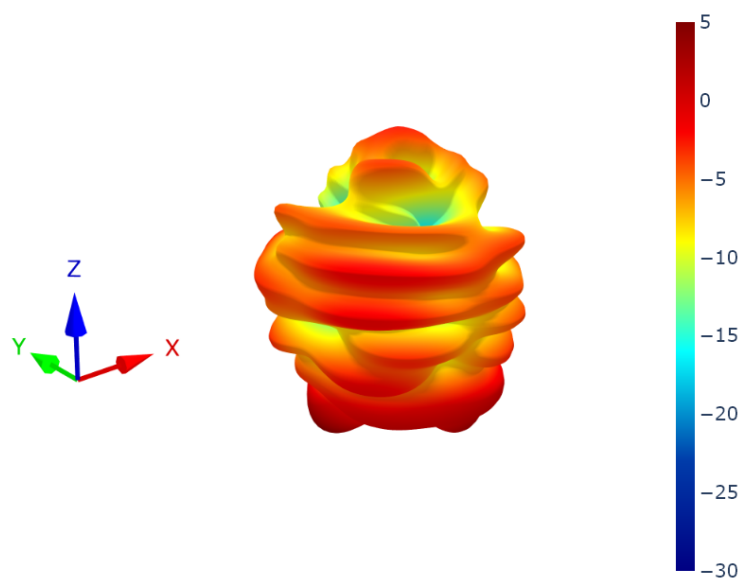
YZ Plane



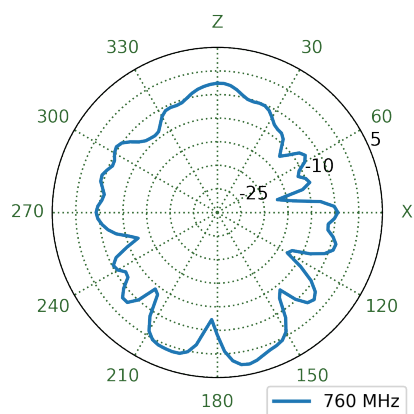
XY Plane



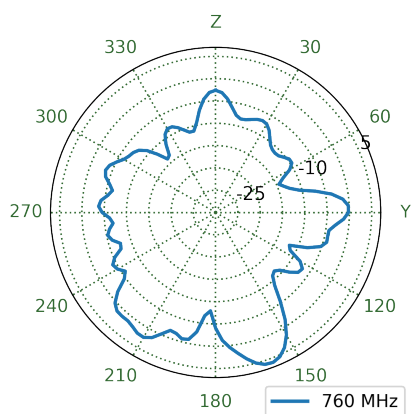
## 7.8 4G-5G 2 - 30x30cm Ground Plane Patterns at 760 MHz



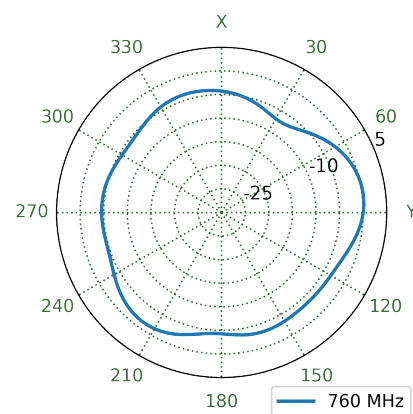
XZ Plane



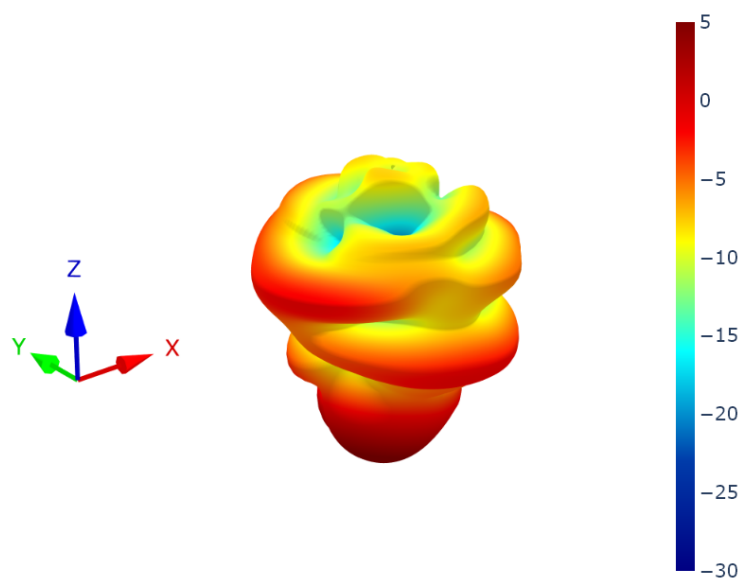
YZ Plane



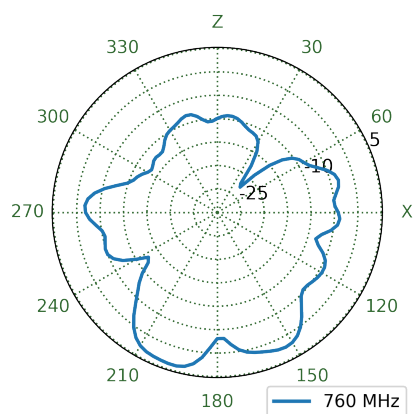
XY Plane



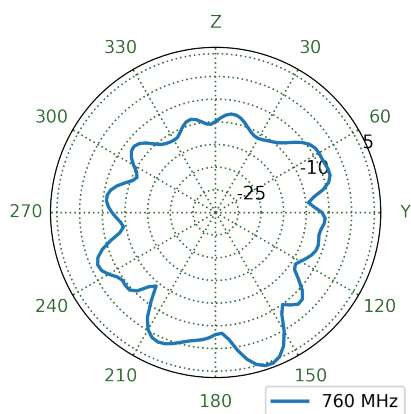
## 7.9 4G-5G 2 - Free Space Patterns at 760 MHz



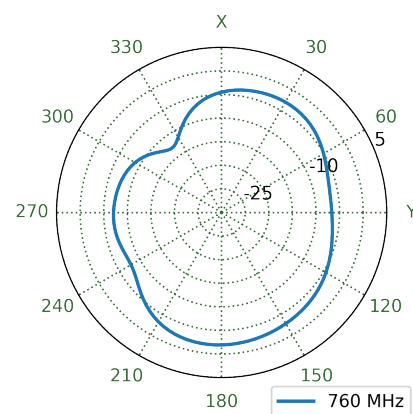
XZ Plane



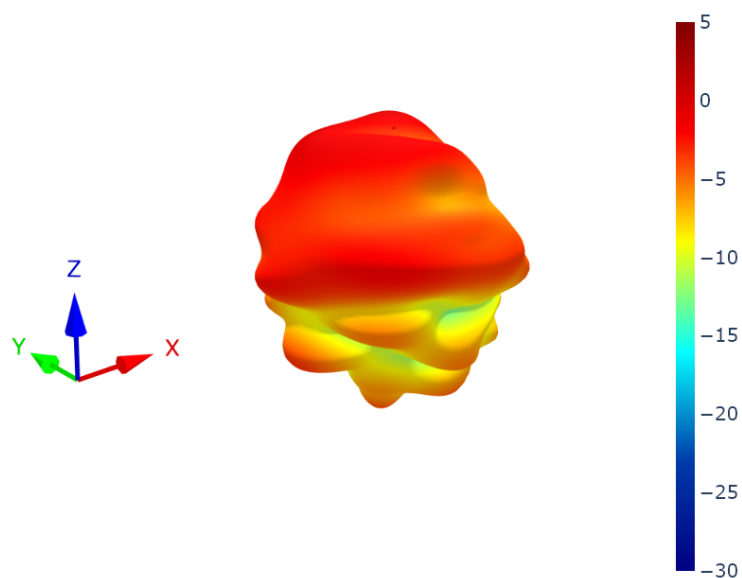
YZ Plane



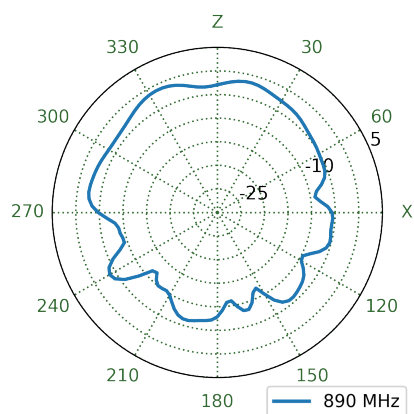
XY Plane



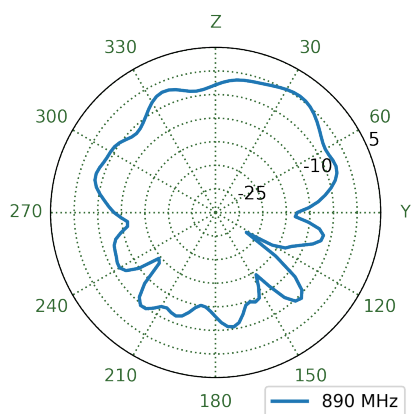
## 7.10 4G-5G 1 - 30x30cm Ground Plane Patterns at 890 MHz



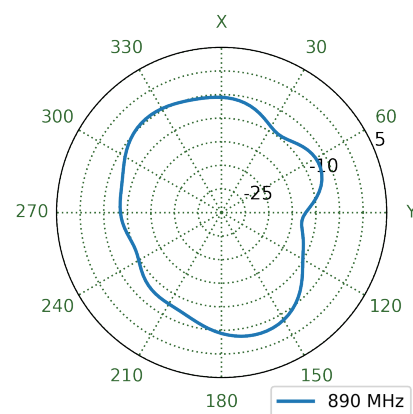
XZ Plane



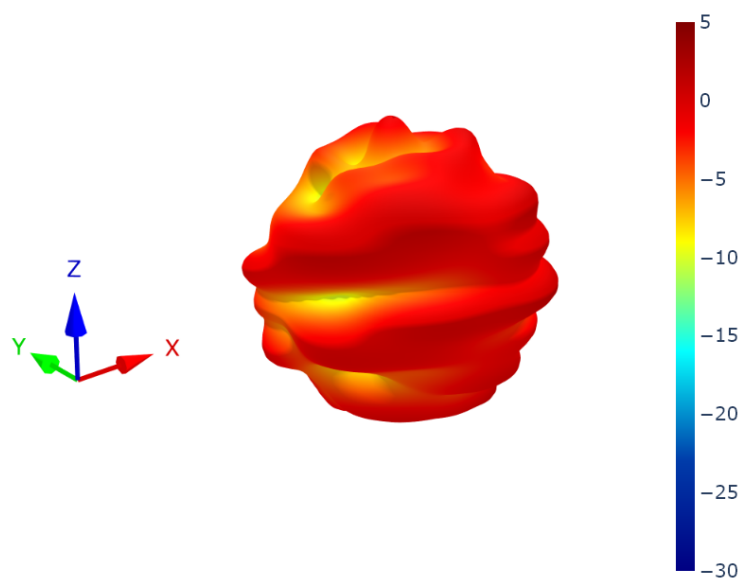
YZ Plane



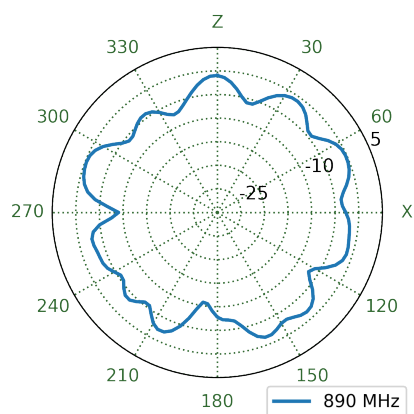
XY Plane



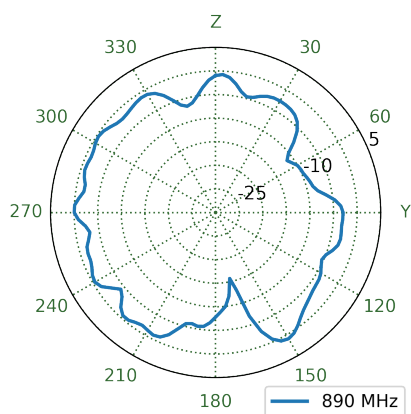
## 7.11 4G-5G 1 - Free Space Patterns at 890 MHz



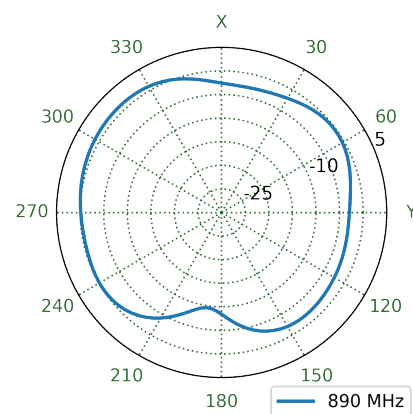
XZ Plane



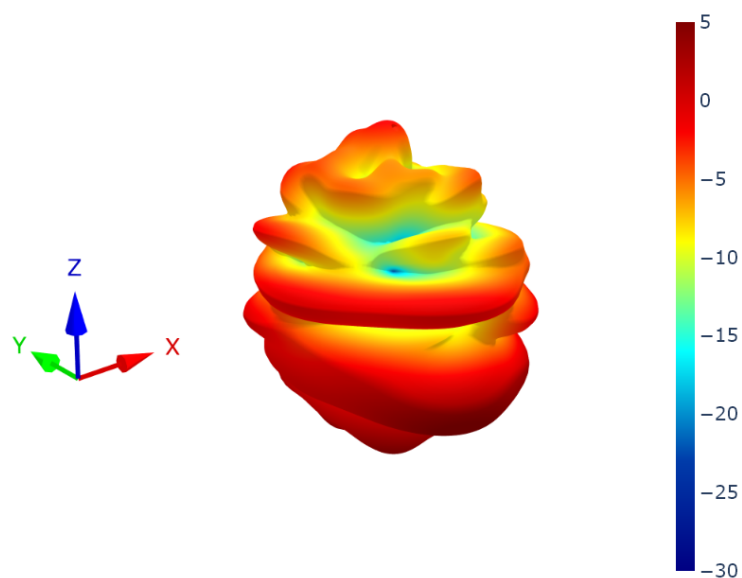
YZ Plane



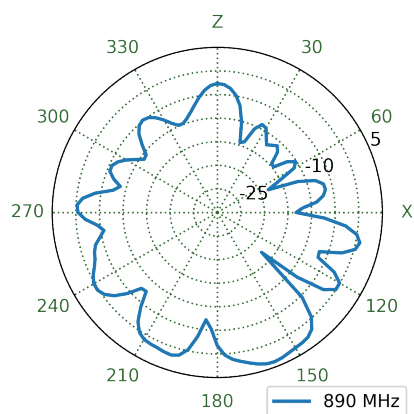
XY Plane



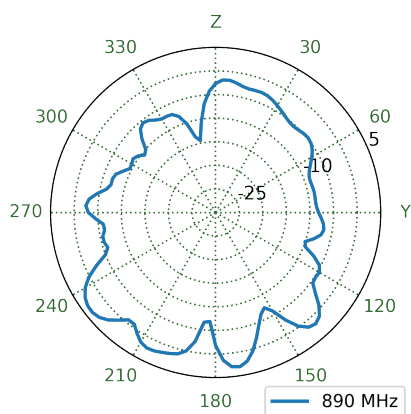
## 7.12 4G-5G 2 - 30x30cm Ground Plane Patterns at 890 MHz



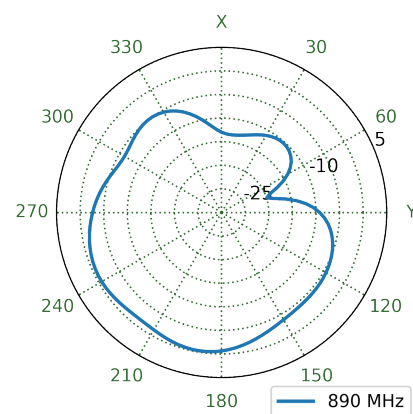
XZ Plane



YZ Plane

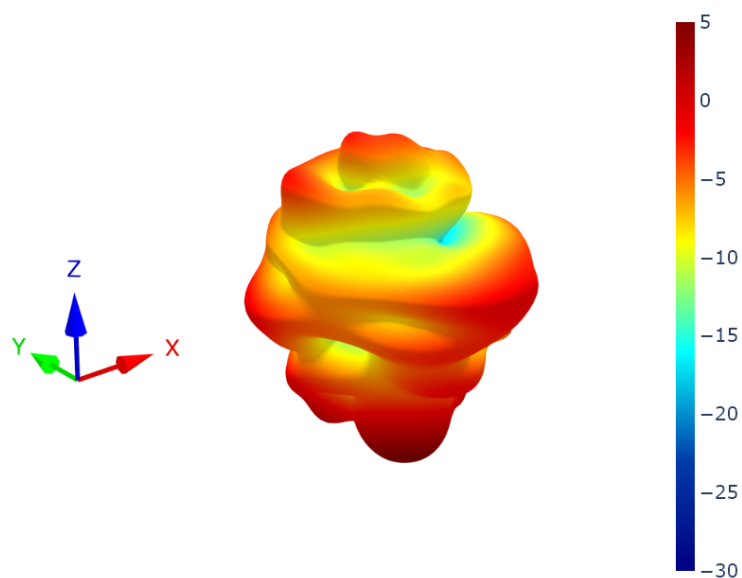


XY Plane

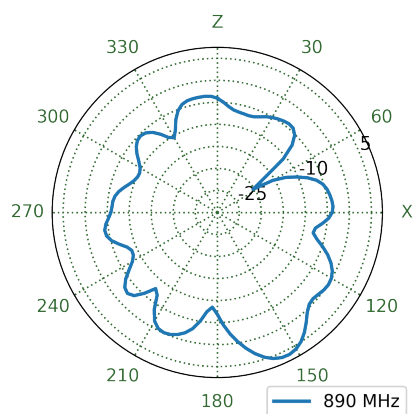




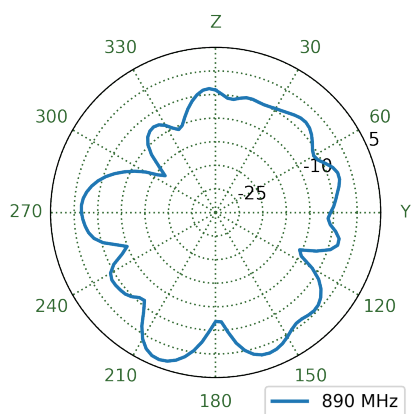
## 7.13 4G-5G 2 - Free Space Patterns at 890 MHz



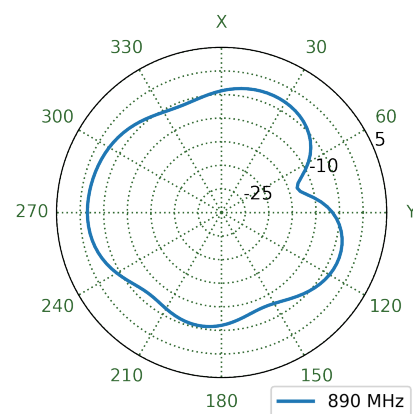
XZ Plane



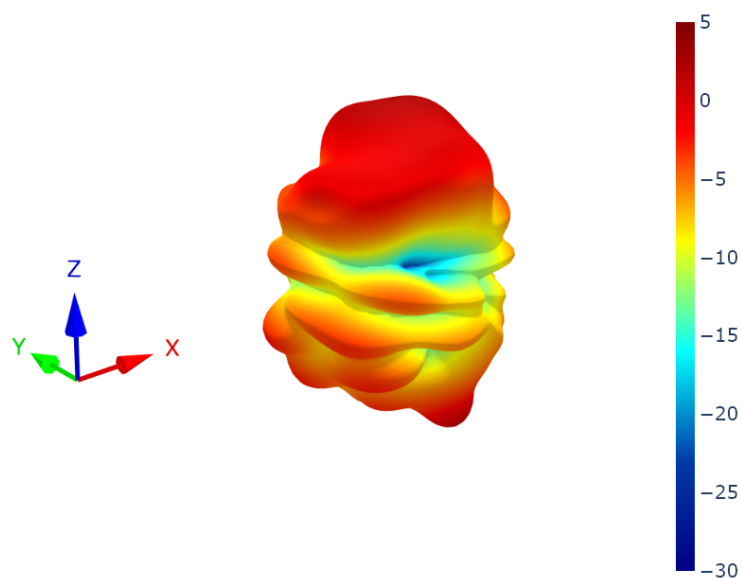
YZ Plane



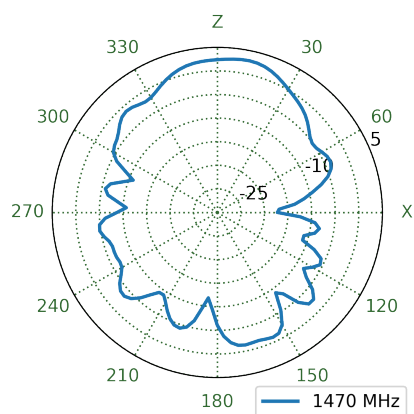
XY Plane



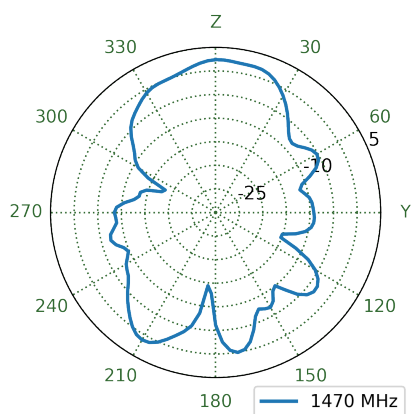
## 7.14 4G-5G 1 - 30x30cm Ground Plane Patterns at 1470 MHz



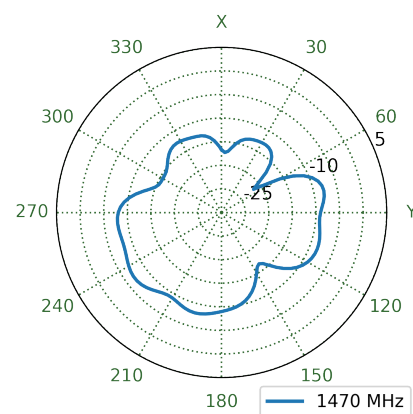
XZ Plane



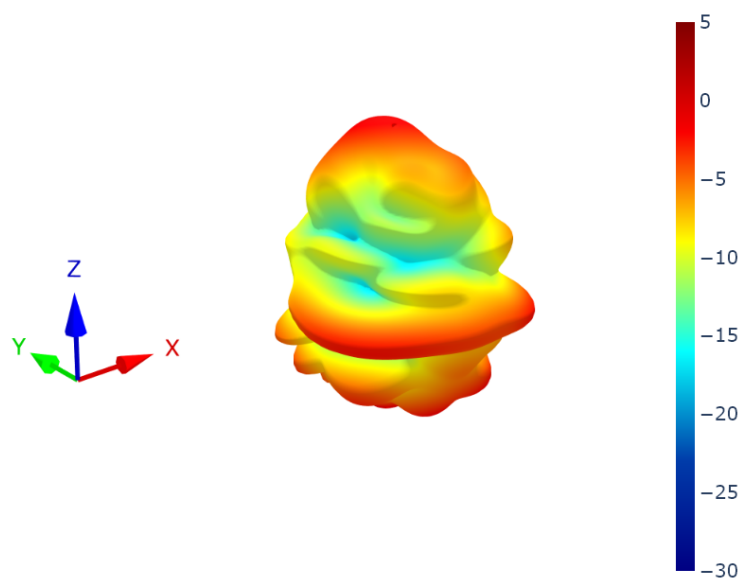
YZ Plane



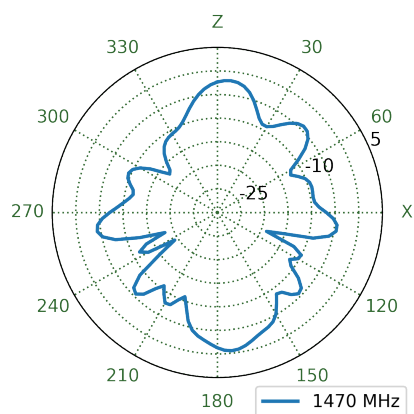
XY Plane



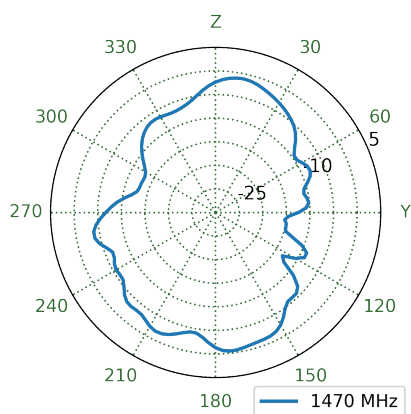
## 7.15 4G-5G 1 - Free Space Patterns at 1470 MHz



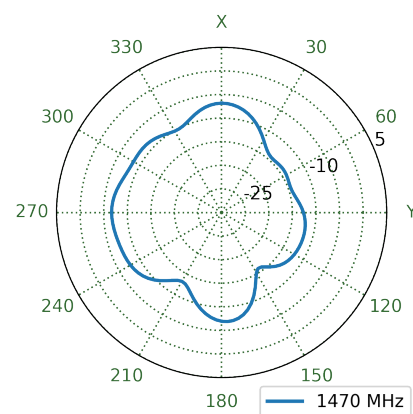
XZ Plane



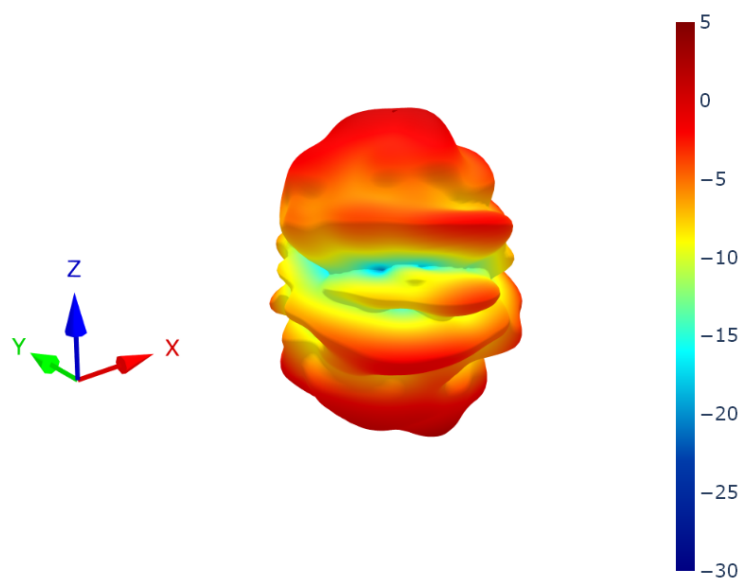
YZ Plane



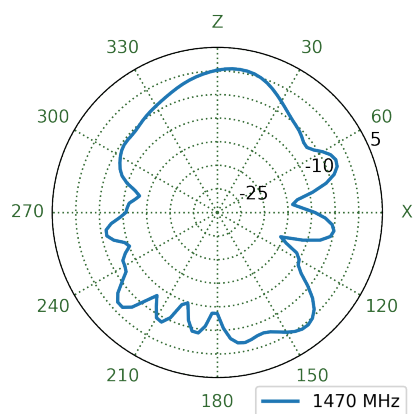
XY Plane



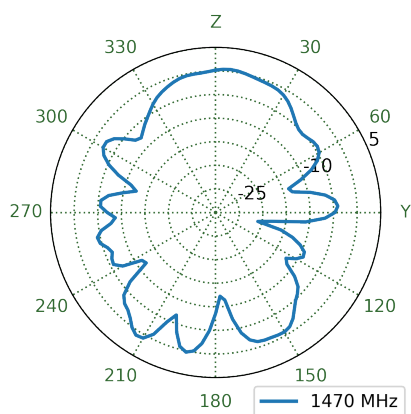
## 7.16 4G-5G 2 - 30x30cm Ground Plane Patterns at 1470 MHz



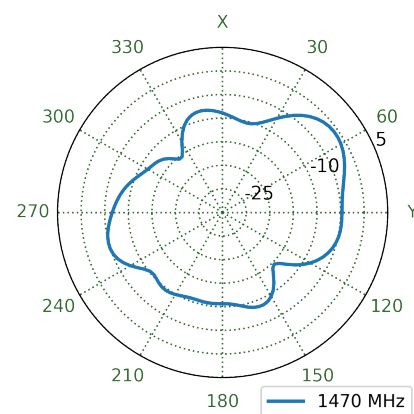
XZ Plane



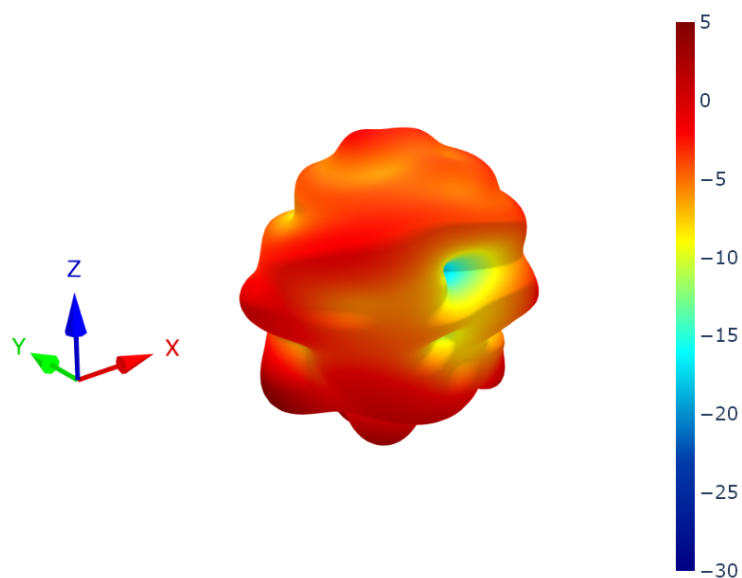
YZ Plane



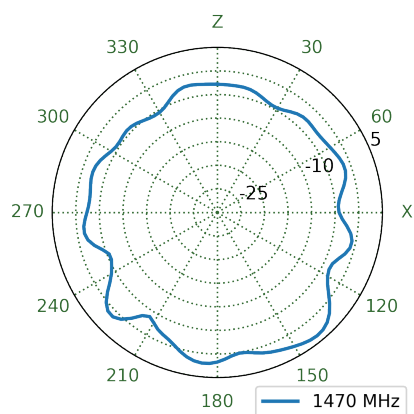
XY Plane



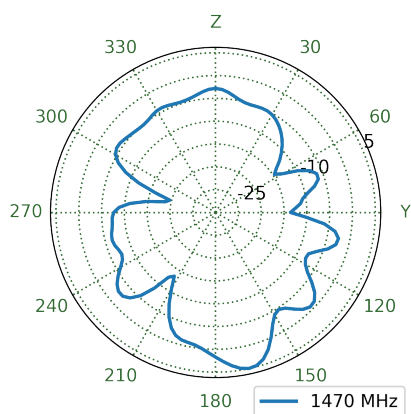
## 7.17 4G-5G 2 - Free Space Patterns at 1470 MHz



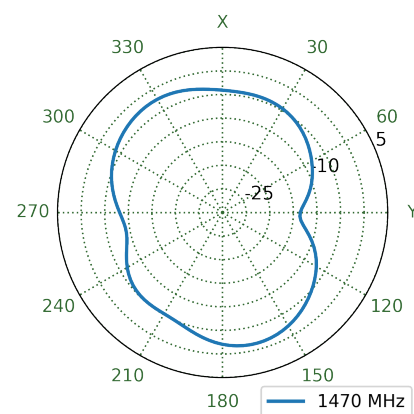
XZ Plane



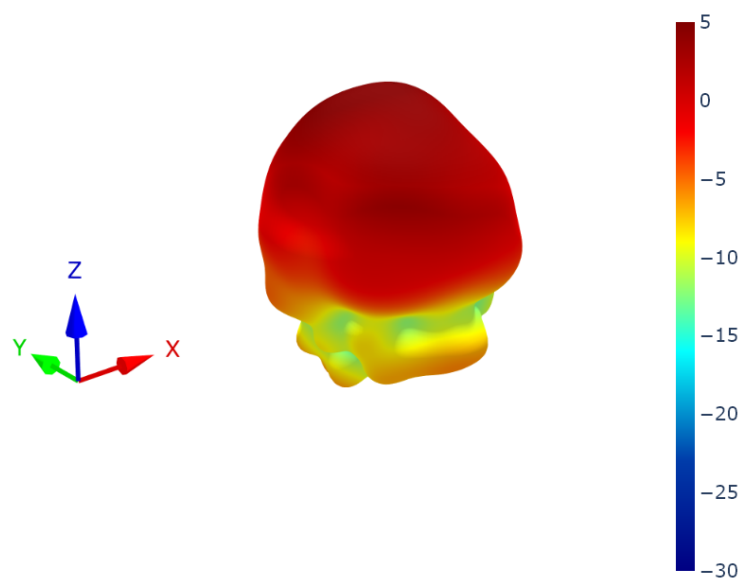
YZ Plane



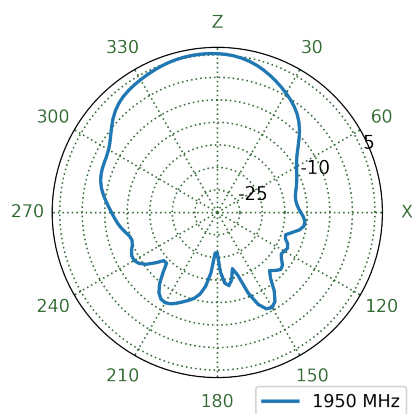
XY Plane



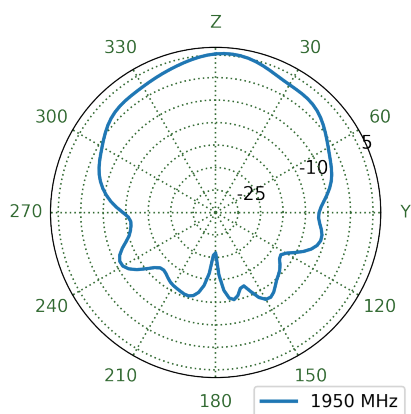
## 7.18 4G-5G 1 - 30x30cm Ground Plane Patterns at 1950 MHz



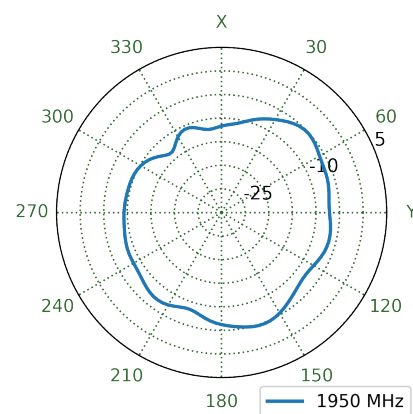
XZ Plane



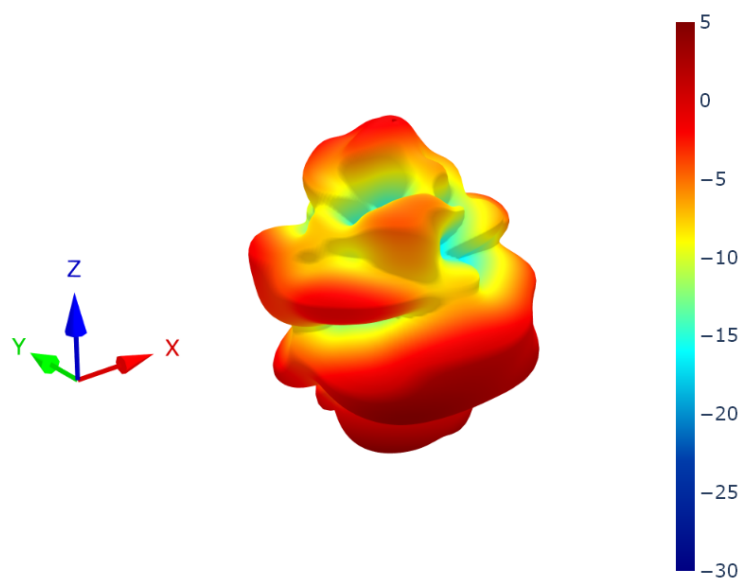
YZ Plane



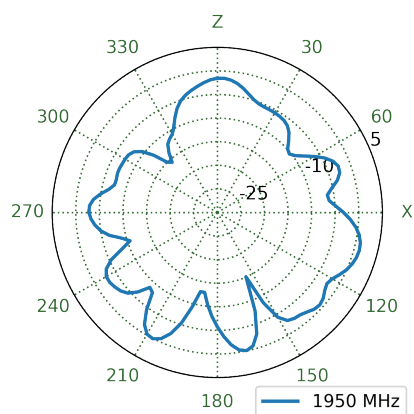
XY Plane



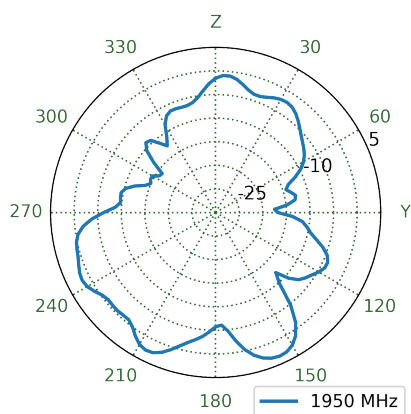
## 7.19 4G-5G 1 - Free Space Patterns at 1950 MHz



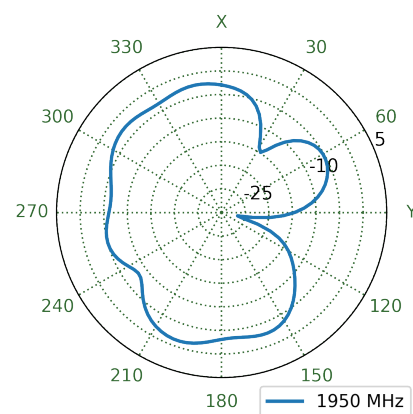
XZ Plane



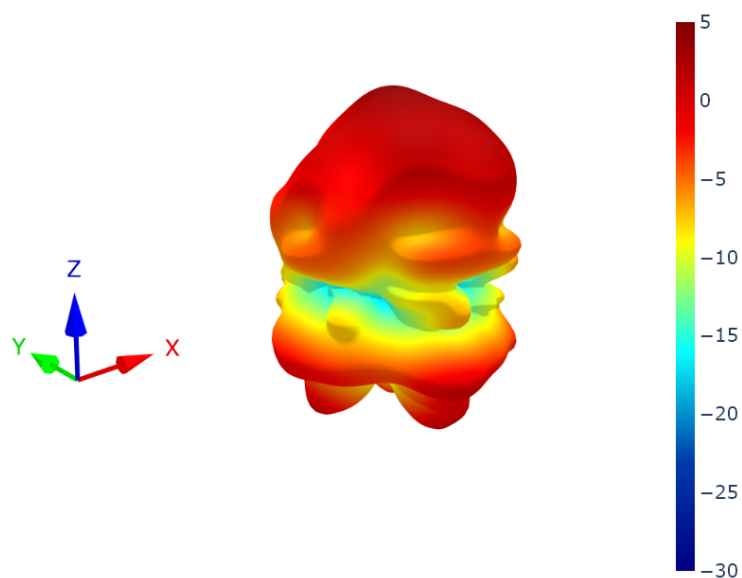
YZ Plane



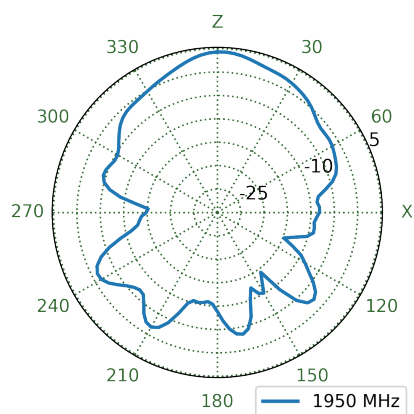
XY Plane



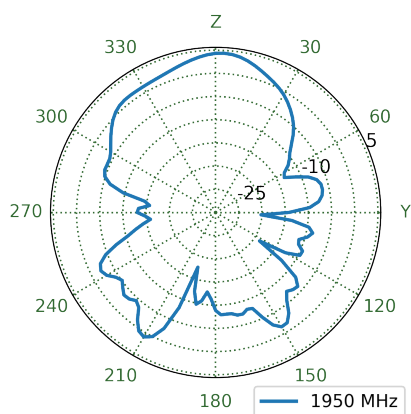
## 7.20 4G-5G 2 - 30x30cm Ground Plane Patterns at 1950 MHz



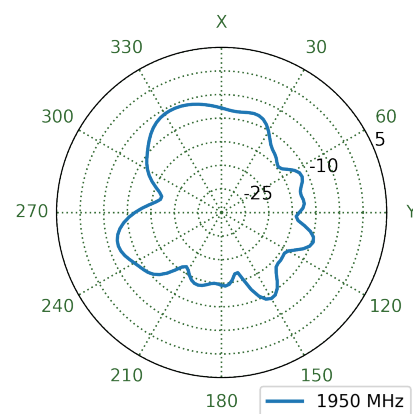
XZ Plane



YZ Plane

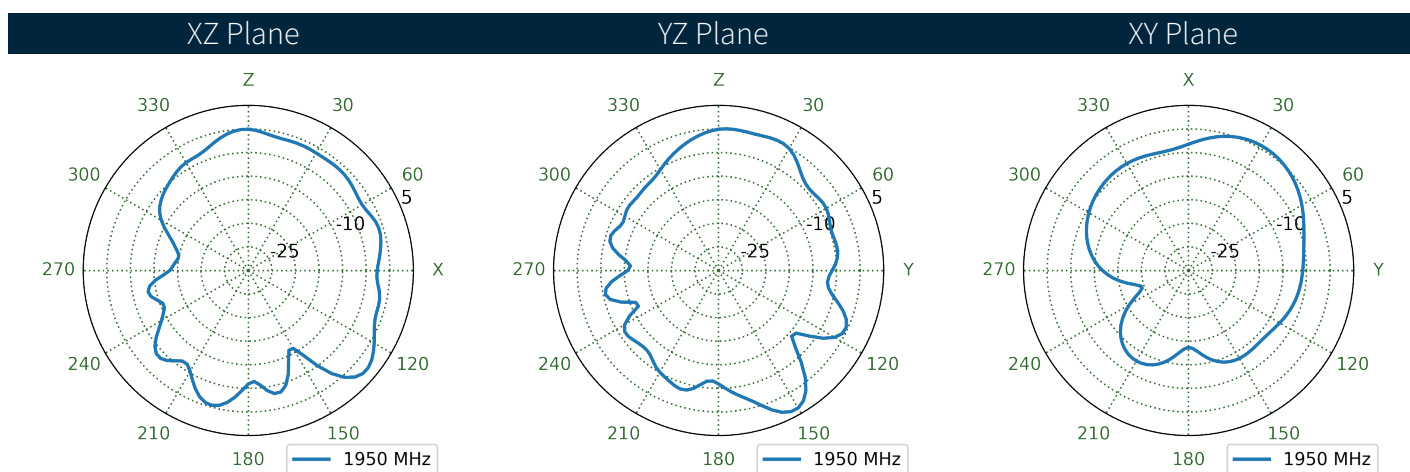
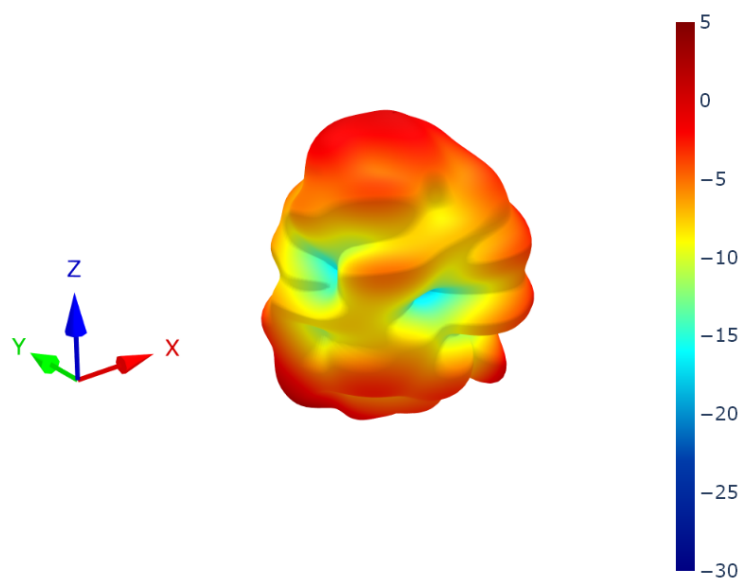


XY Plane

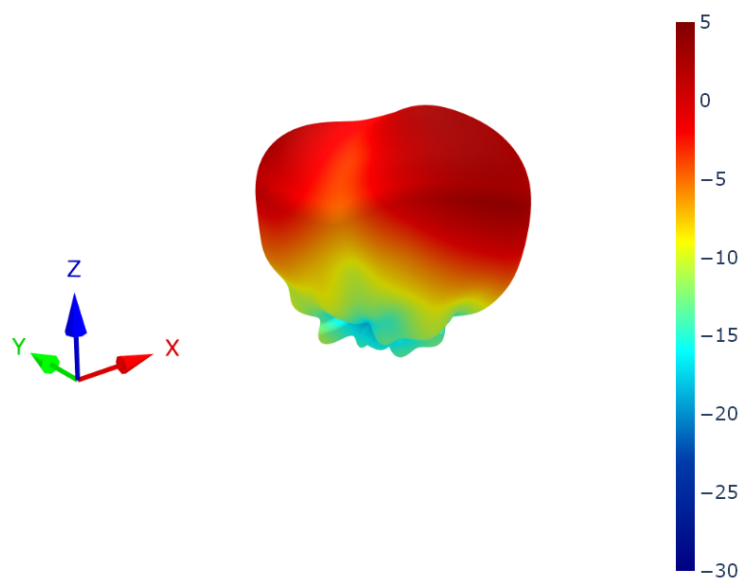




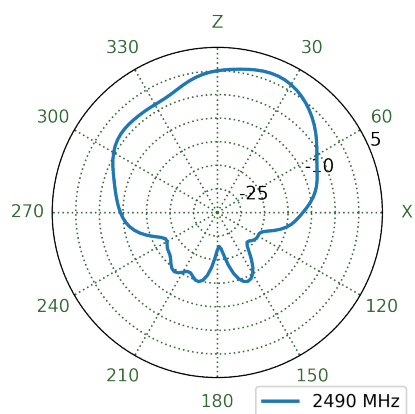
## 7.21 4G-5G 2 - Free Space Patterns at 1950 MHz



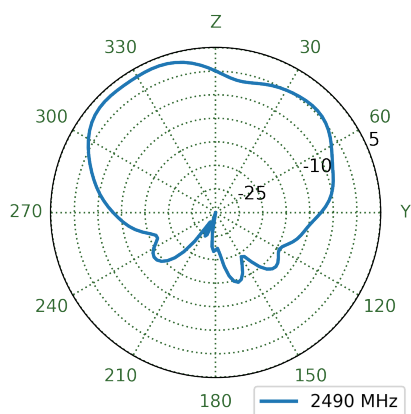
## 7.22 4G-5G 1 - 30x30cm Ground Plane Patterns at 2490 MHz



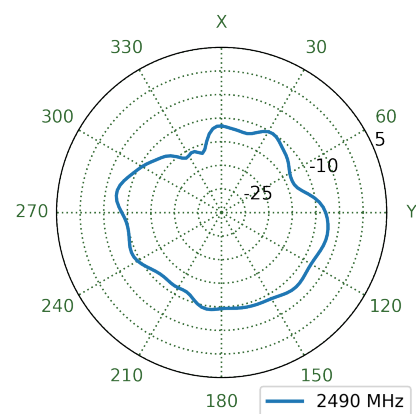
XZ Plane



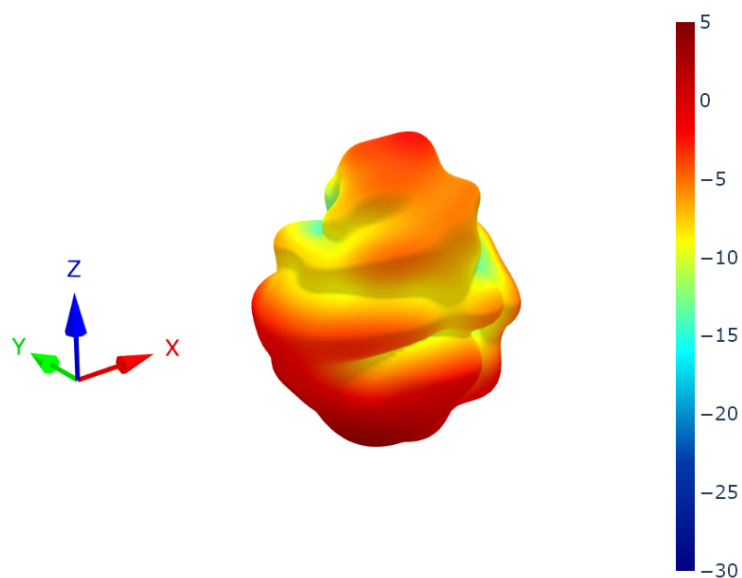
YZ Plane



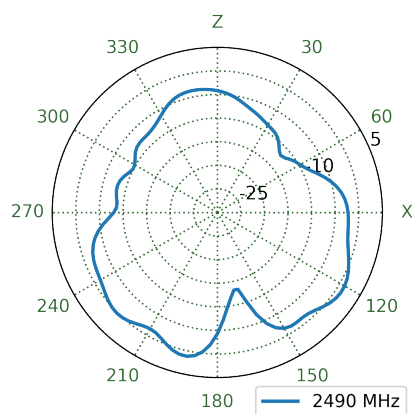
XY Plane



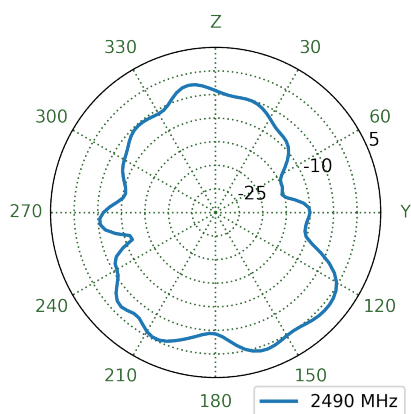
## 7.23 4G-5G 1 - Free Space Patterns at 2490 MHz



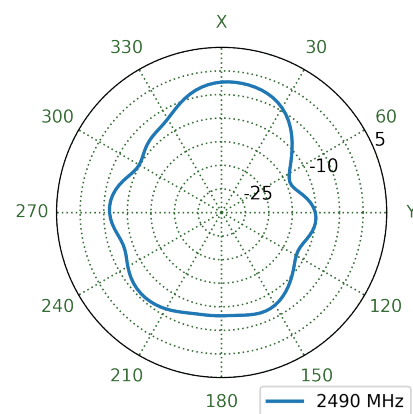
XZ Plane



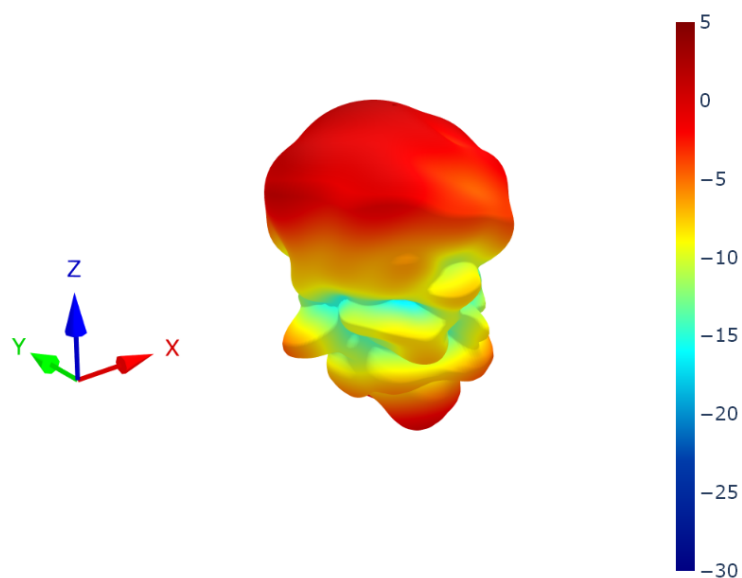
YZ Plane



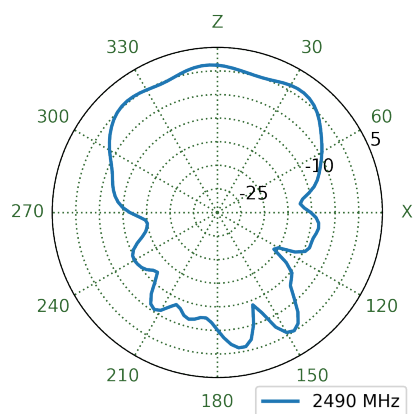
XY Plane



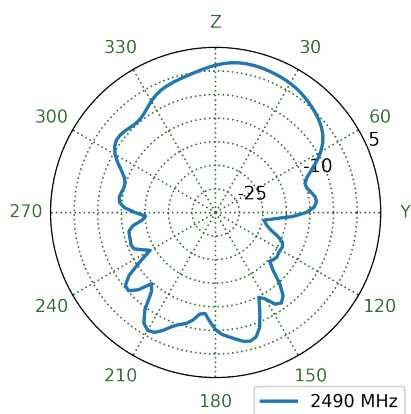
## 7.24 4G-5G 2 - 30x30cm Ground Plane Patterns at 2490 MHz



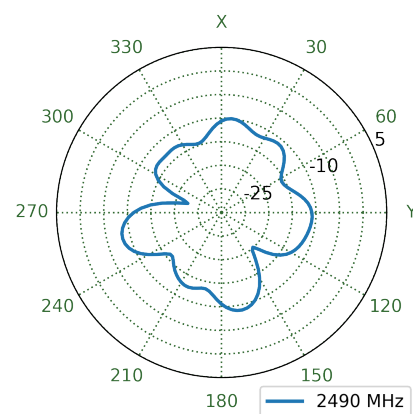
XZ Plane



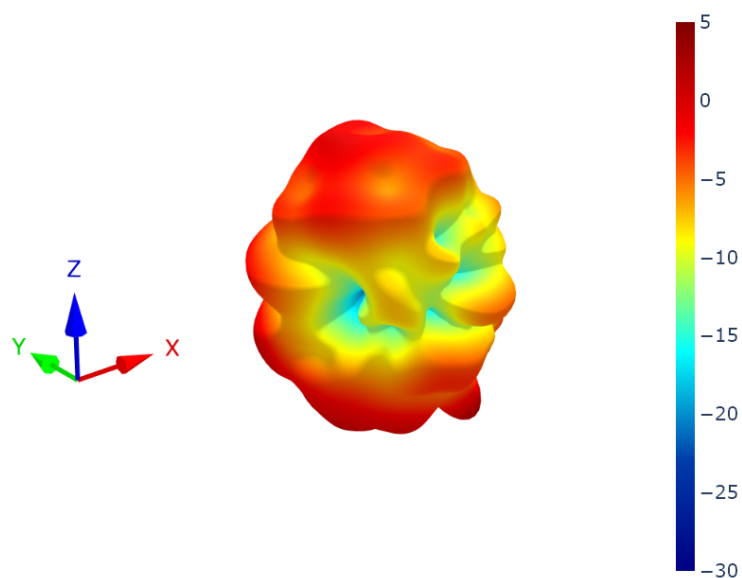
YZ Plane



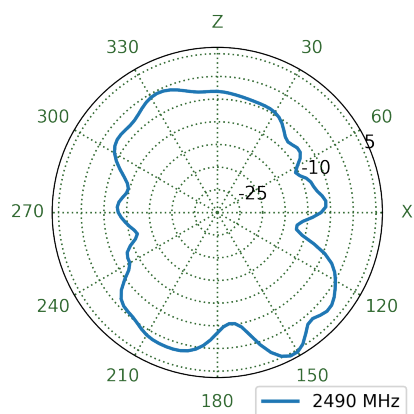
XY Plane



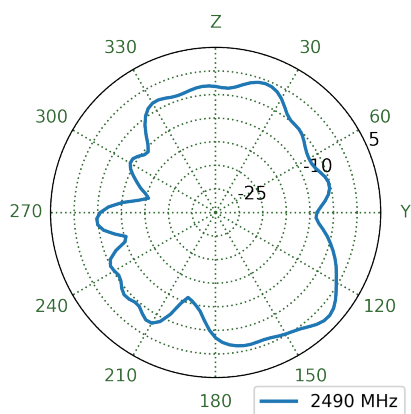
## 7.25 4G-5G 2 - Free Space Patterns at 2490 MHz



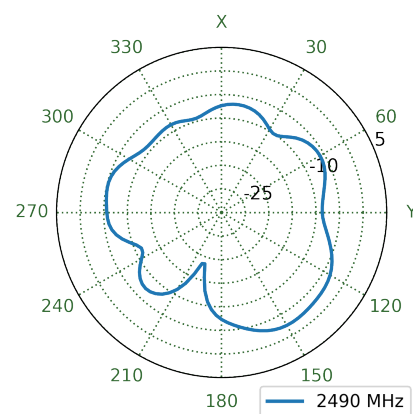
XZ Plane



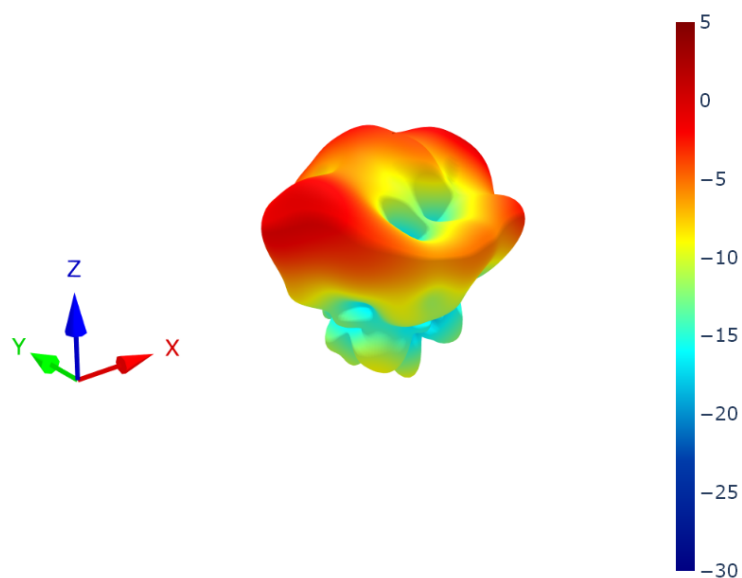
YZ Plane



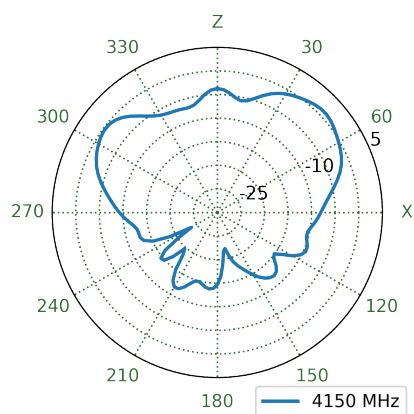
XY Plane



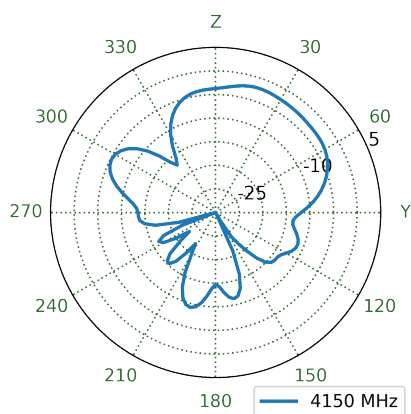
## 7.26 4G-5G 1 - 30x30cm Ground Plane Patterns at 4150 MHz



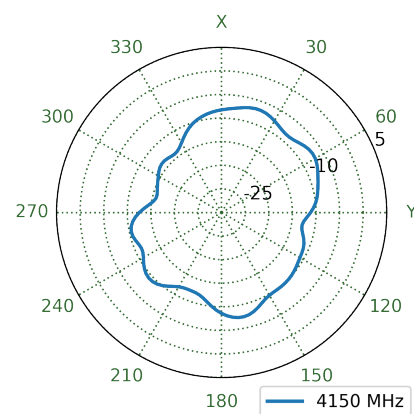
XZ Plane



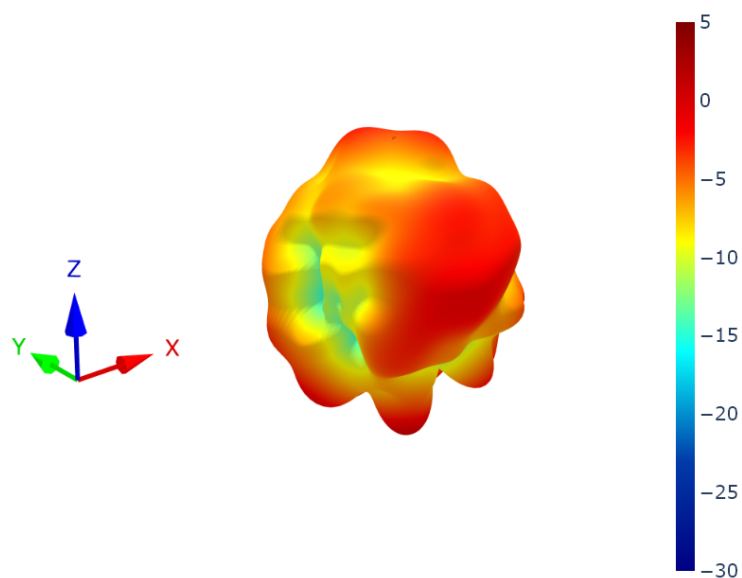
YZ Plane



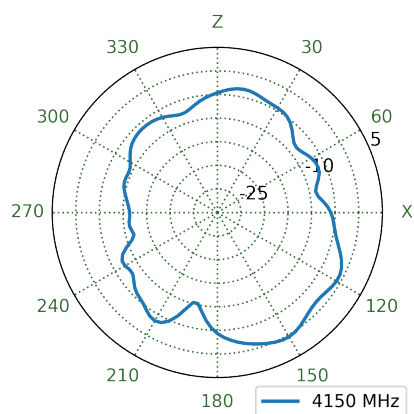
XY Plane



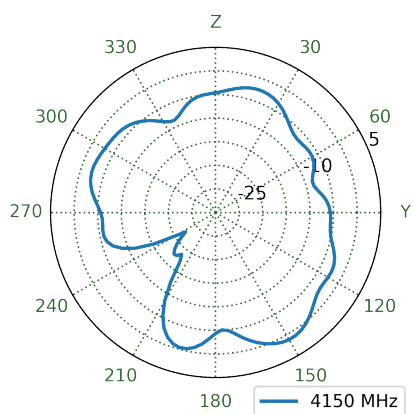
## 7.27 4G-5G 1 - Free Space Patterns at 4150 MHz



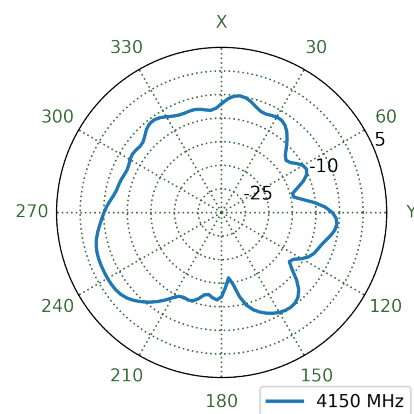
XZ Plane



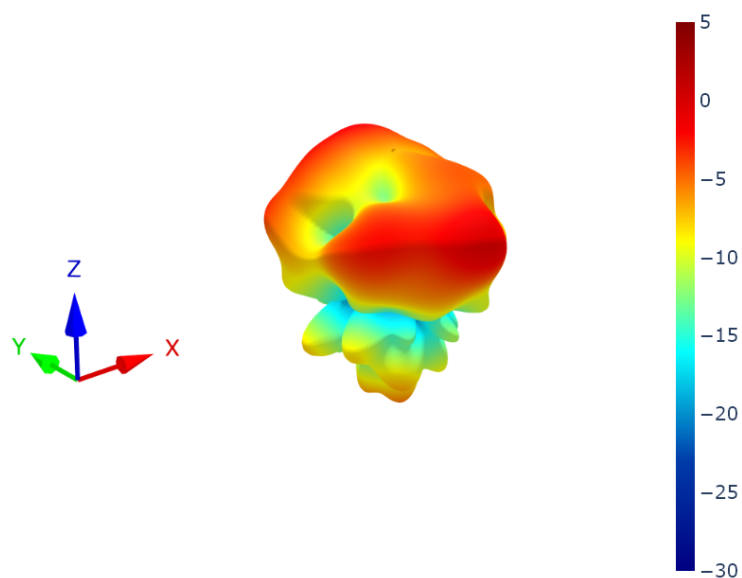
YZ Plane



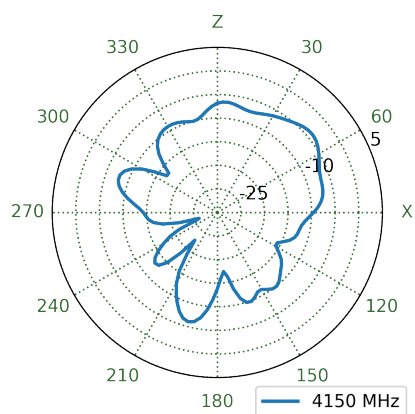
XY Plane



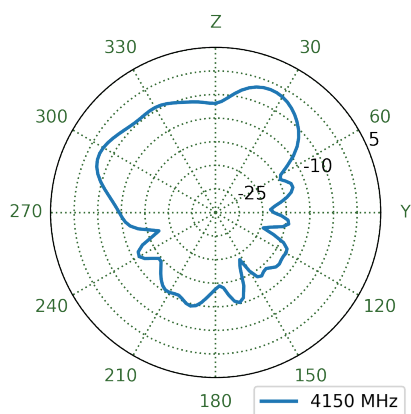
## 7.28 4G-5G 2 - 30x30cm Ground Plane Patterns at 4150 MHz



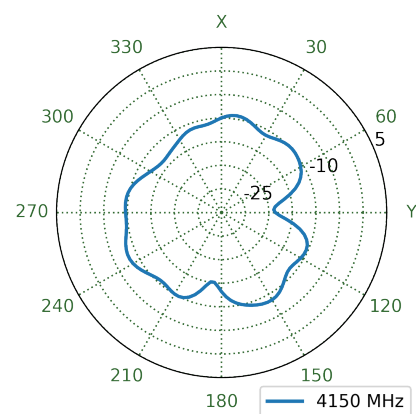
XZ Plane



YZ Plane

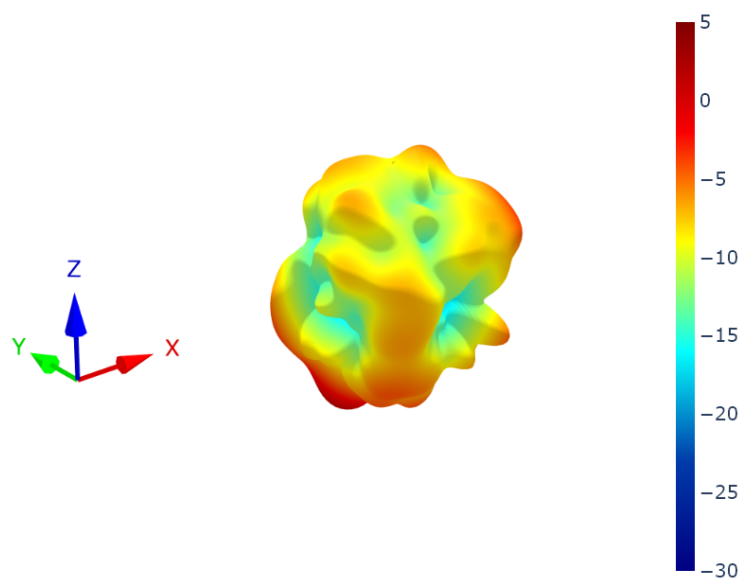


XY Plane

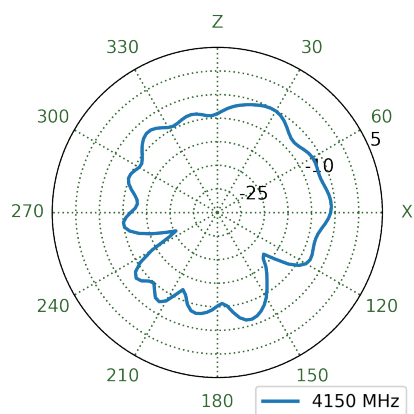




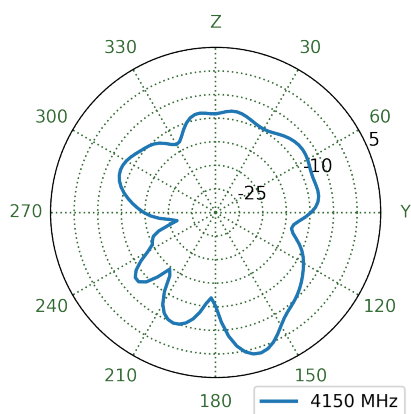
## 7.29 4G-5G 2 - Free Space Patterns at 4150 MHz



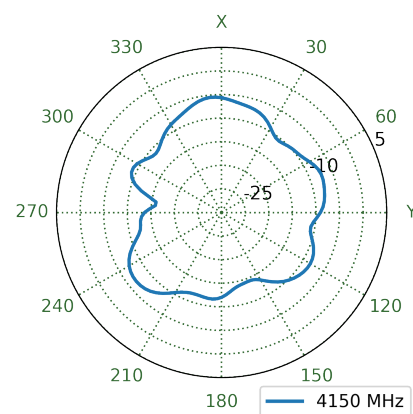
XZ Plane



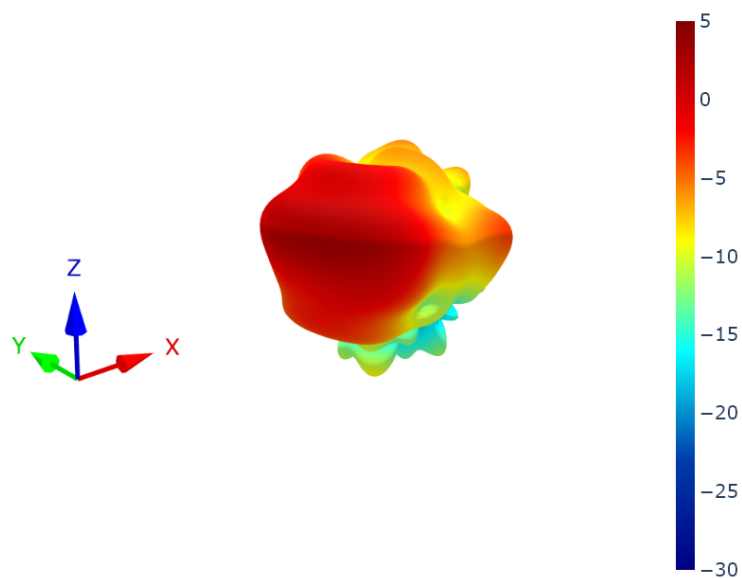
YZ Plane



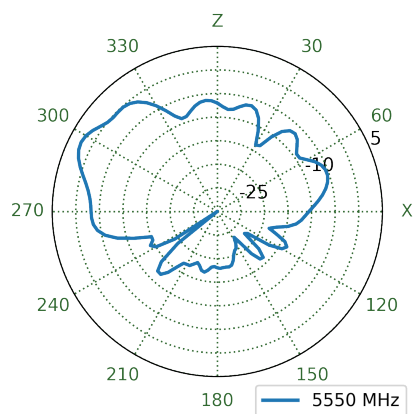
XY Plane



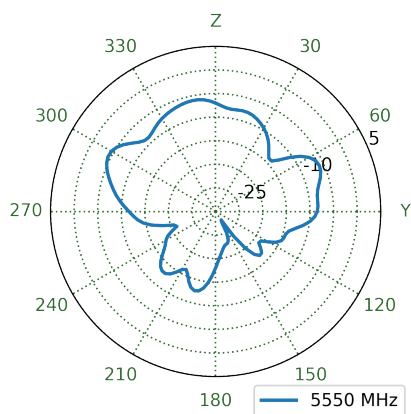
## 7.30 4G-5G 1 - 30x30cm Ground Plane Patterns at 5550 MHz



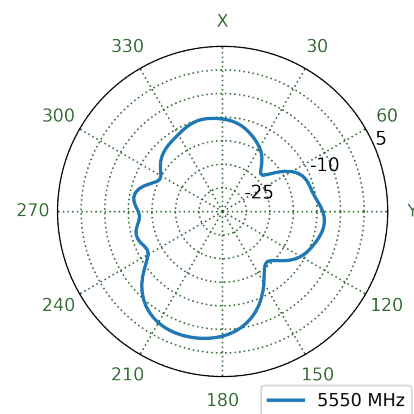
XZ Plane



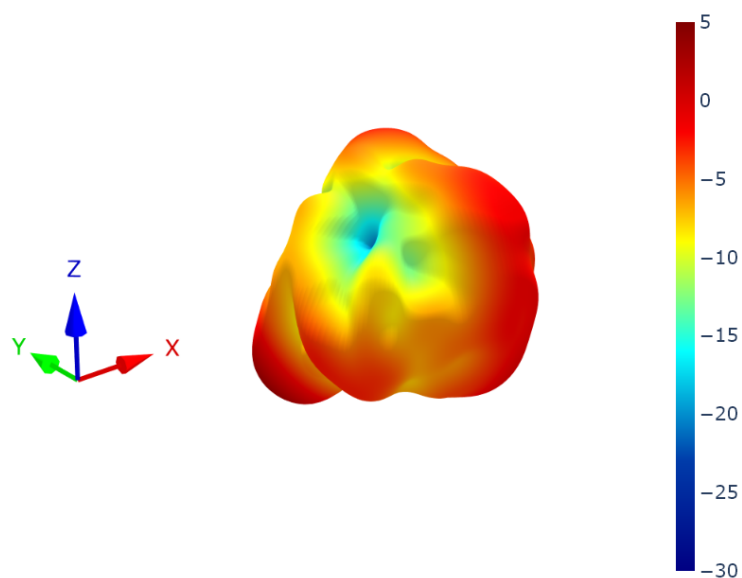
YZ Plane



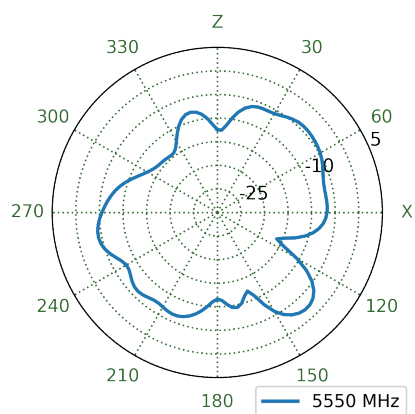
XY Plane



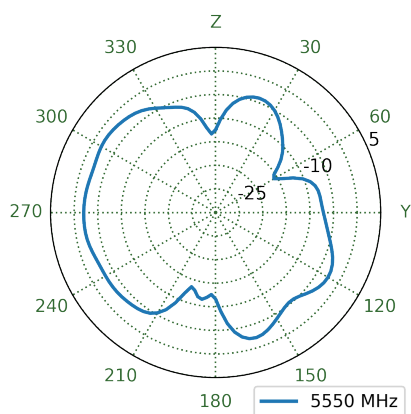
# 7.31 4G-5G 1 - Free Space Patterns at 5550 MHz



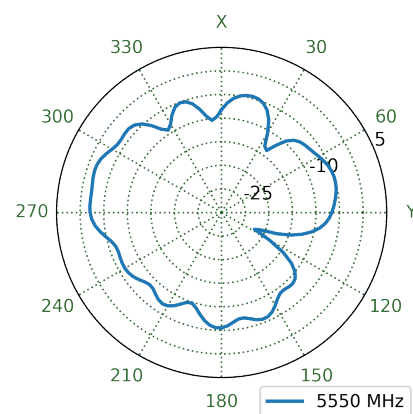
XZ Plane



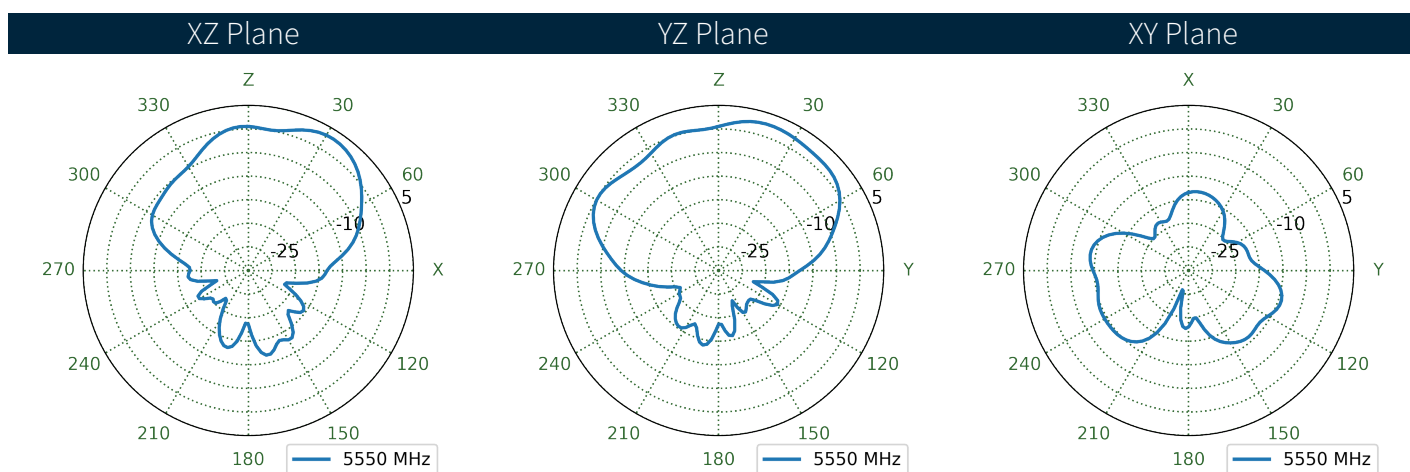
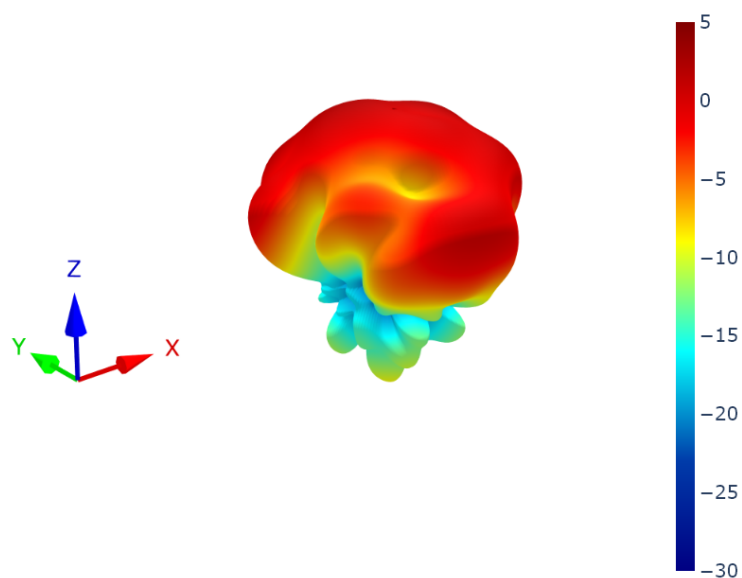
YZ Plane



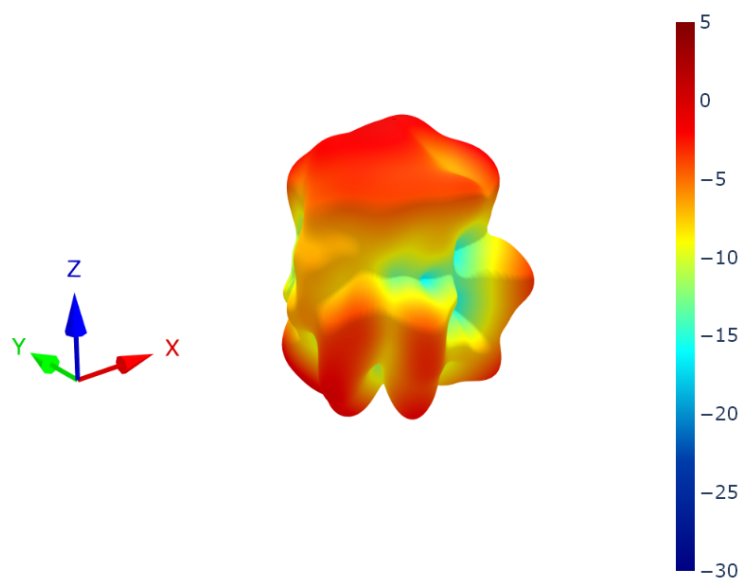
XY Plane



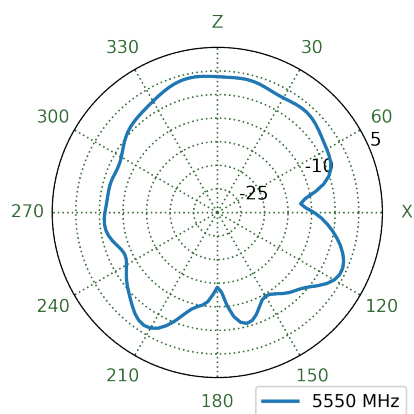
## 7.32 4G-5G 2 - 30x30cm Ground Plane Patterns at 5550 MHz



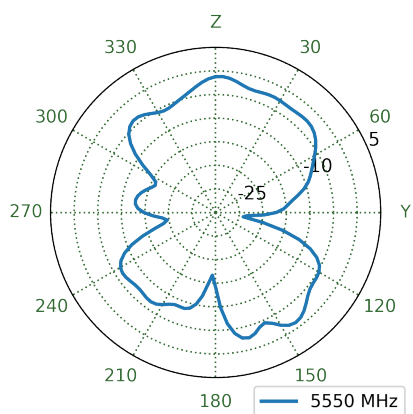
# 7.33 4G-5G 2 - Free Space Patterns at 5550 MHz



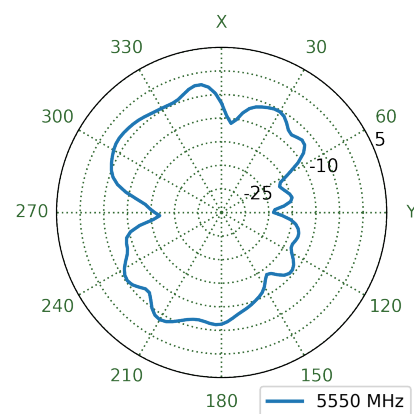
XZ Plane



YZ Plane



XY Plane



Changelog for the datasheet

SPE-25-8-193 – MA582.A.001\_MA582.W.001

Revision: A (Initial Release)

|         |                           |
|---------|---------------------------|
| Date:   | 2025-07-14                |
| Notes:  | Initial Datasheet Release |
| Author: | Gary West                 |

Previous Revisions

|  |  |
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