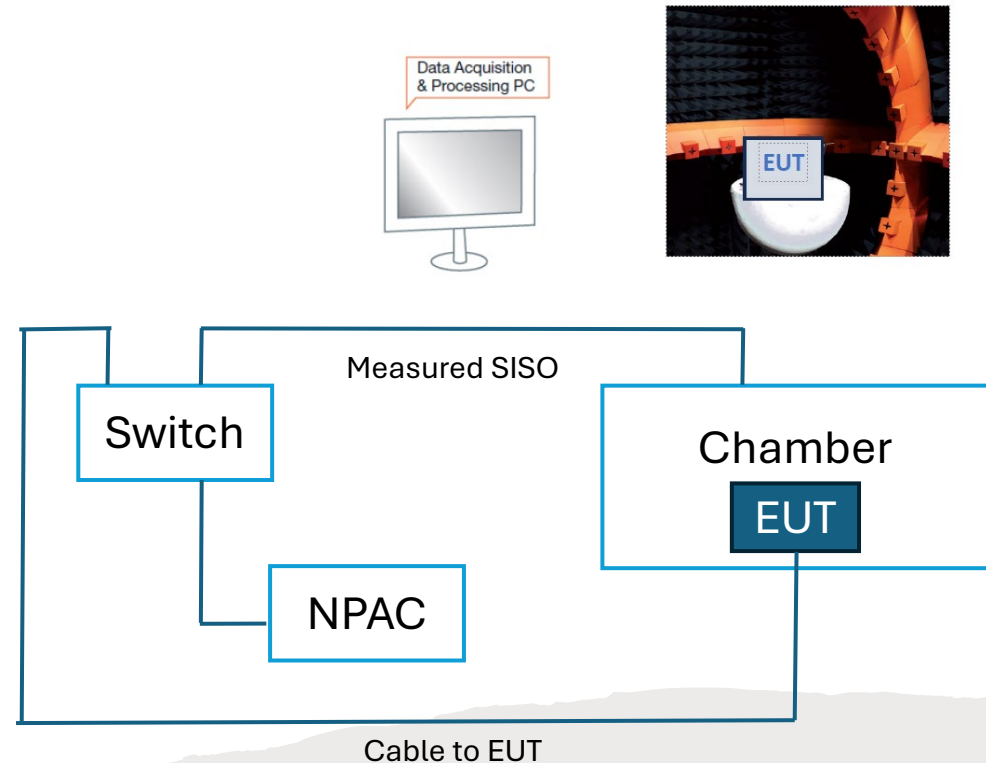
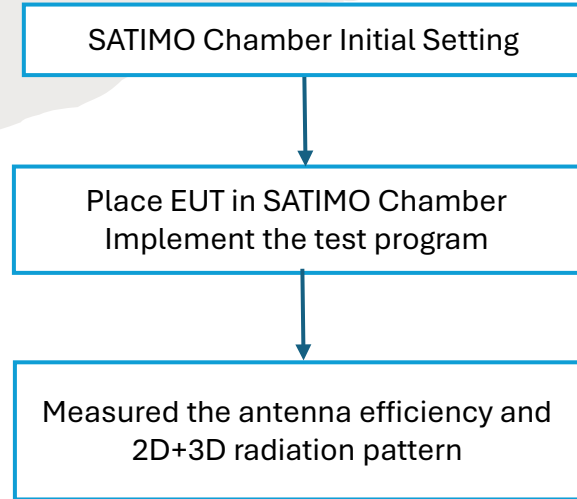


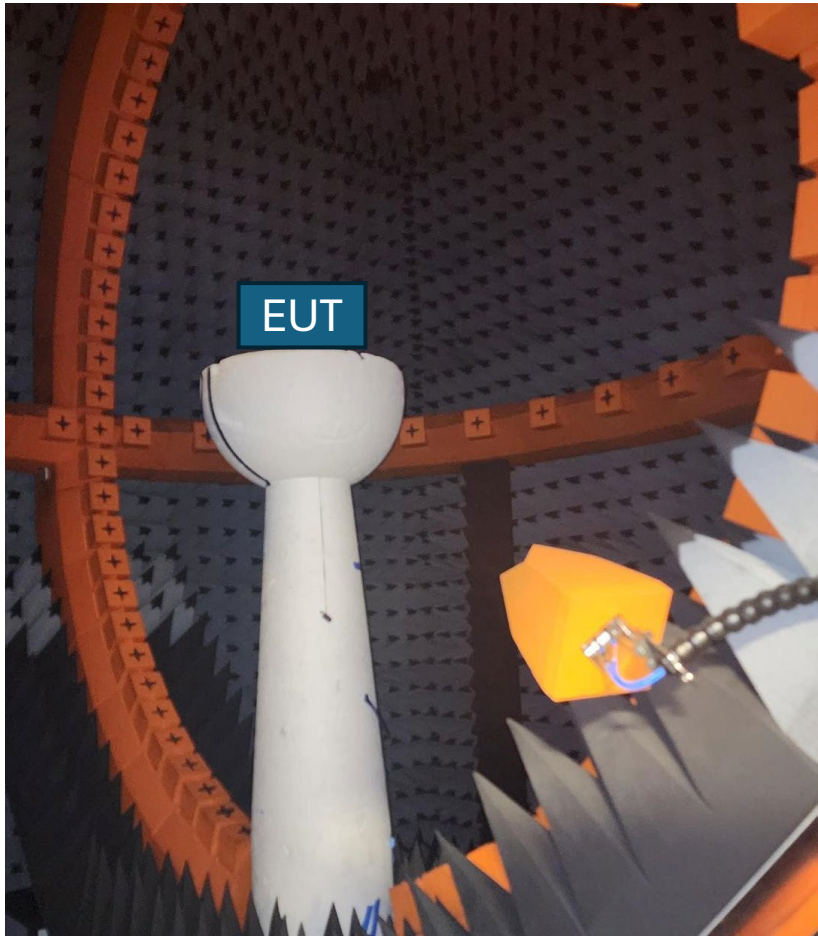
# Antenna Report

# Test Method, Setup, Block Diagram

- This test report is prepared for host antenna testing under a Full Anechoic Chamber (MVG StarGate64 SISO).
- Test Date(s):  
7/11/2024 to 8/5/2024
- Test Engineer: Sakshi Srivastava



# Setup Pictures



## Equipment List

Item	Equipment	Manufacture	Model	Cal Date	Cal Due Date
1	Satimo Chamber	MVG	StartGate	07/10/2024	08/10/2024
2	NPAC (New Probe Array Controller)	MVG	Not Applicable	03/29/2024	03/29/2025

# Antenna Information

- Antenna Manufacturer: Microsoft
- Antenna Type: Printed
- Antenna Part Nos.: N/A

Antenna	Frequency Band (MHz)
2.4 GHz Design	2400-2483.50
5-7 GHz Design	5150-5850 5925-7125

## Peak Gain

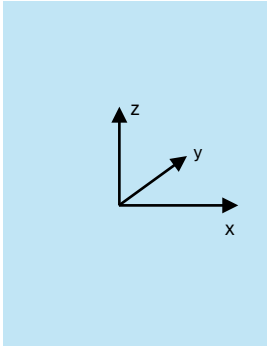
2.4 GHz

Band [MHz]	Peak Gain [dBi]
2400-2483.5	6.1

5-7 GHz

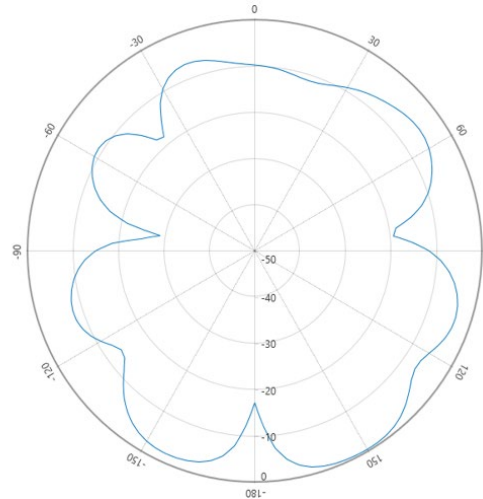
Band [MHz]	Peak Gain [dBi]
5150-5250	8.66
5250-5350	8.66
5470-5725	8.66
5725-5850	8.66
5925-6425	8.6
6425-6525	8.6
6525-6875	8.2
6875-7125	8.2

# 2.4 GHz: 6dBi Radiation Pattern [2.44 GHz]

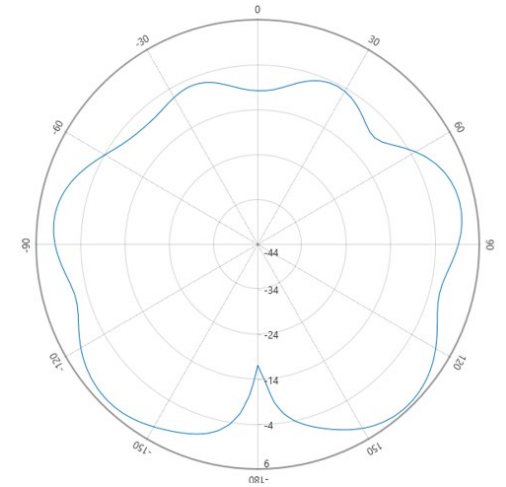


Rendition of The Board

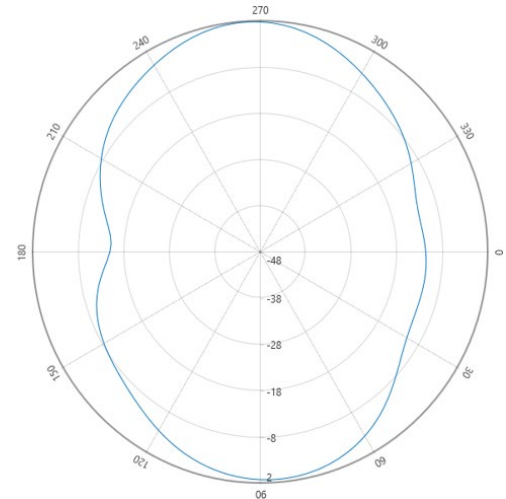
0° 2440.00 MHz ETotal  
XZ Plane  
Elevation Cut  
Azimuth= 0°



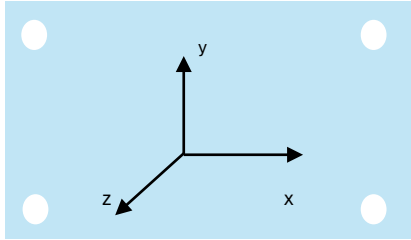
90° 2440.00 MHz ETotal  
YZ Plane  
Elevation Cut  
Azimuth= 90°



90° 2440.00 MHz ETotal  
XY Plane  
Azimuth Cut  
Elevation= 90°

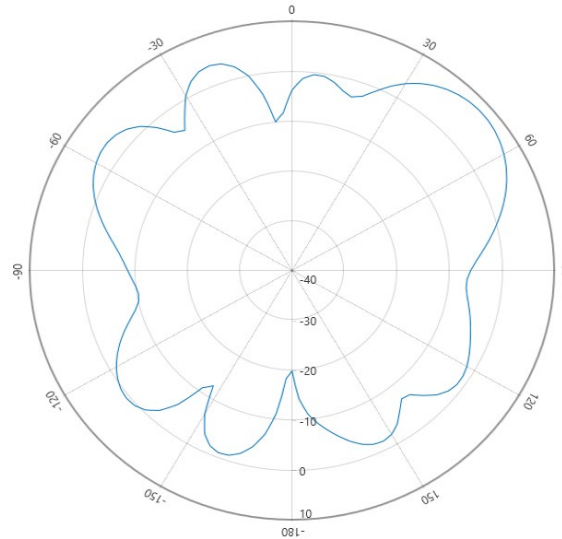


# 5-7 GHz: 8dBi Radiation Pattern [5.2 GHz]

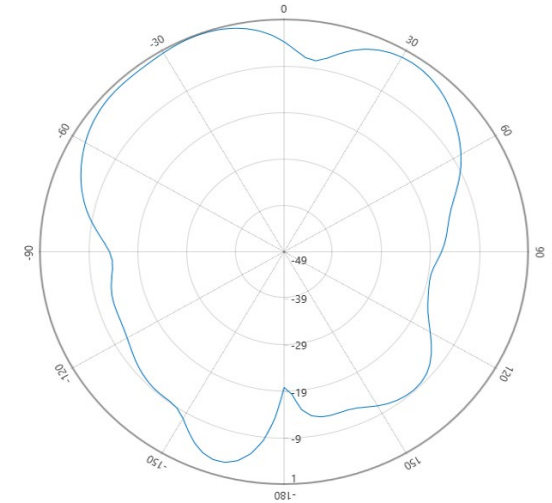


Rendition of The Board (Top View)

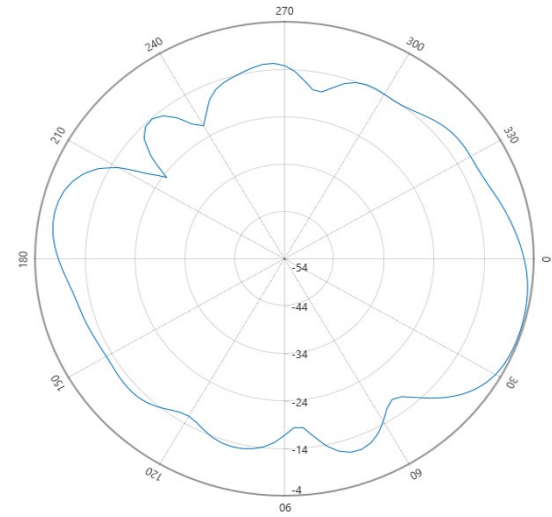
0° 5200.00 MHz ETotal  
XZ Plane  
Elevation Cut  
Azimuth= 0°



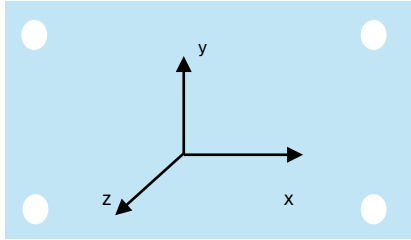
90° 5200.00 MHz ETotal  
YZ Plane  
Elevation Cut  
Azimuth= 90°



90° 5200.00 MHz ETotal  
XY Plane  
Azimuth Cut  
Elevation= 90°

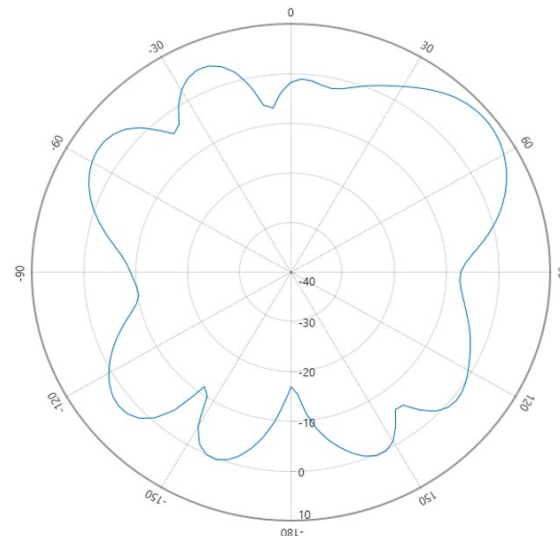


# 5-7 GHz: 8dBi Radiation Pattern [5.3 GHz]

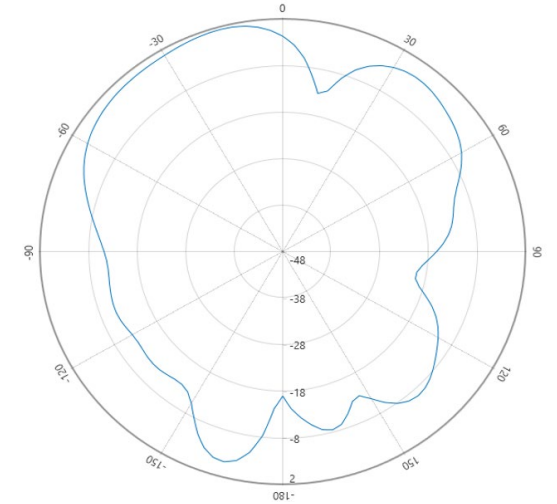


Rendition of The Board (Top View)

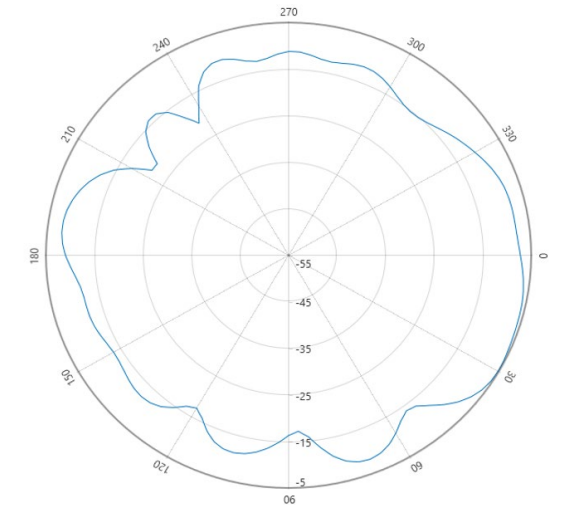
— 0° 5300.00 MHz ETotal  
XZ Plane  
Elevation Cut  
Azimuth= 0°



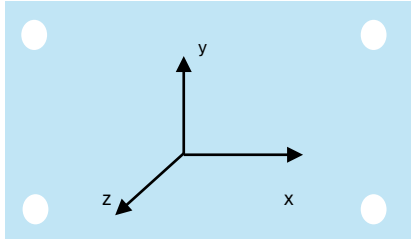
— 90° 5300.00 MHz ETotal  
YZ Plane  
Elevation Cut  
Azimuth= 90°



— 90° 5300.00 MHz ETotal  
XY Plane  
Azimuth Cut  
Elevation= 90°

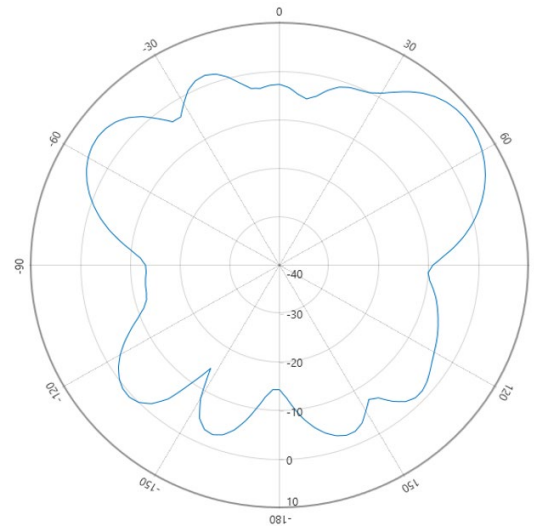


# 5-7 GHz: 8dBi Radiation Pattern [5.6 GHz]

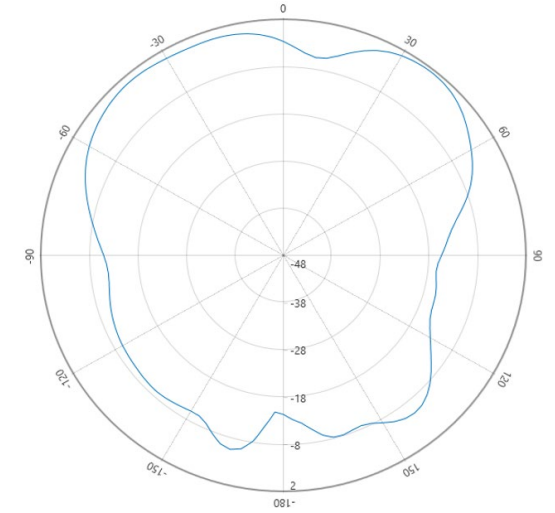


Rendition of The Board (Top View)

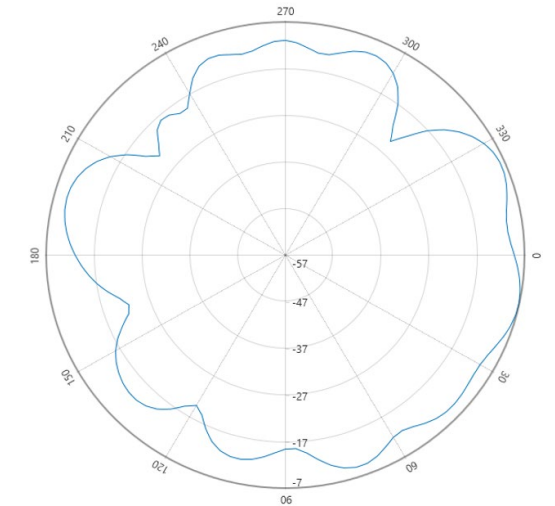
— 0° 5600.00 MHz ETotat  
XZ Plane  
Elevation Cut  
Azimuth= 0°



— 90° 5600.00 MHz ETotat  
YZ Plane  
Elevation Cut  
Azimuth= 90°

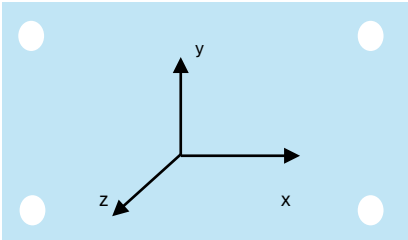


— 90° 5600.00 MHz ETotat  
XY Plane  
Azimuth Cut  
Elevation= 90°



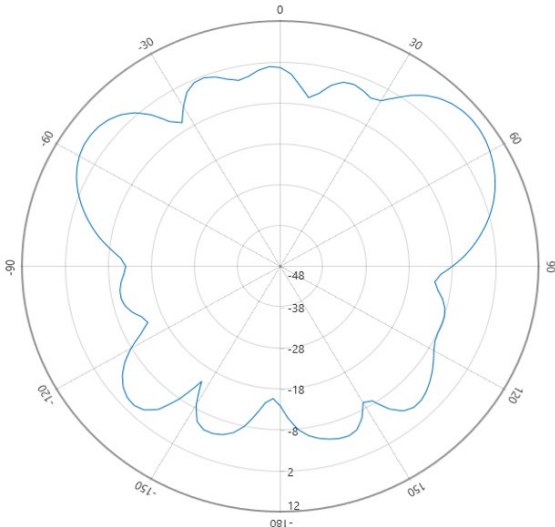


# 5-7 GHz: 8dBi Radiation Pattern [5.8 GHz]

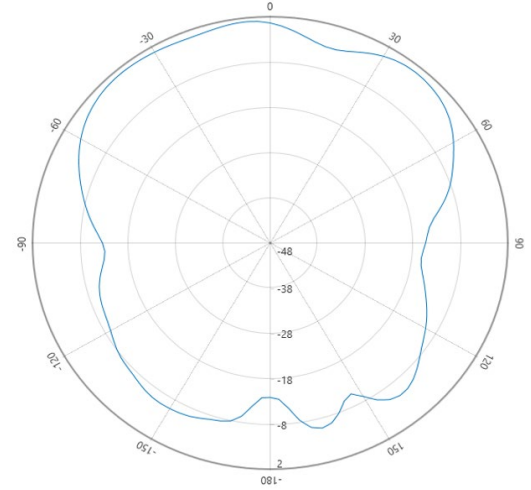


Rendition of The Board (Top View)

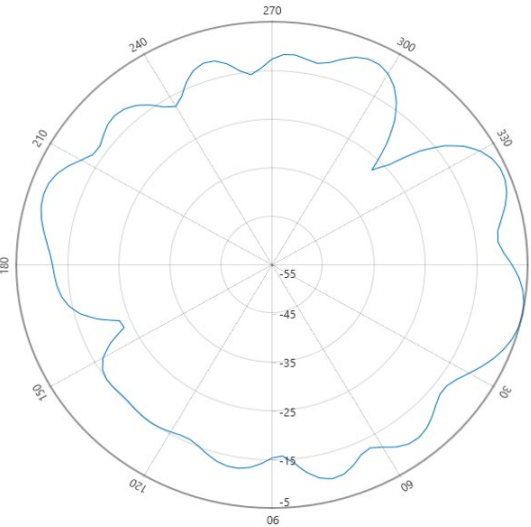
0° 5800.00 MHz ETotal  
XZ Plane  
Elevation Cut  
Azimuth= 0°



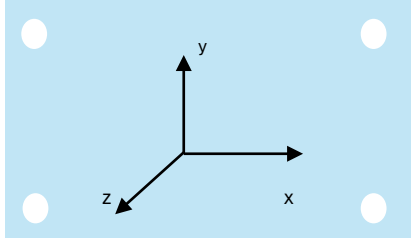
90° 5800.00 MHz ETotal  
YZ Plane  
Elevation Cut  
Azimuth= 90°



90° 5800.00 MHz ETotal  
XY Plane  
Azimuth Cut  
Elevation= 90°

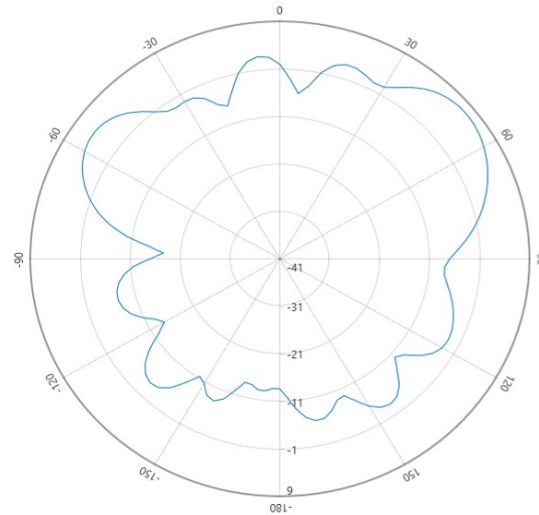


# 5-7 GHz: 8dBi Radiation Pattern [6.2 GHz]

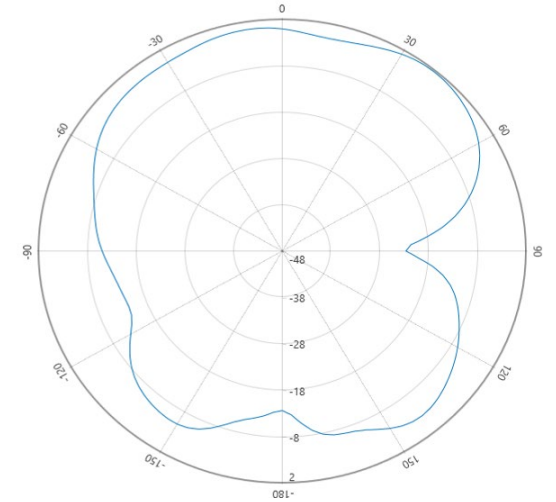


Rendition of The Board (Top View)

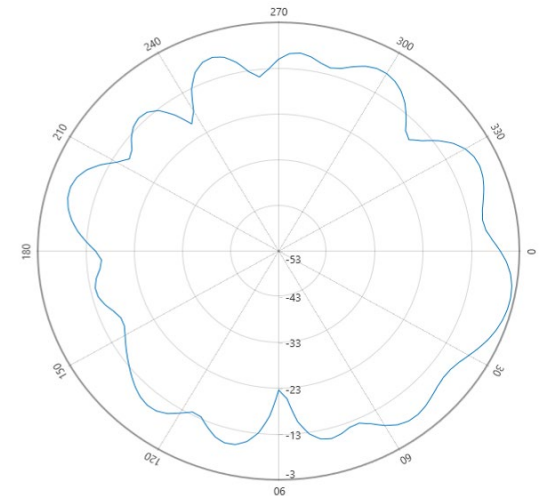
— 0° 6200.00 MHz ETotal  
XZ Plane  
Elevation Cut  
Azimuth= 0°



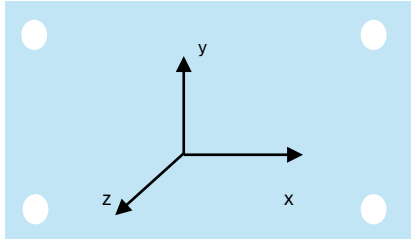
— 90° 6200.00 MHz ETotal  
YZ Plane  
Elevation Cut  
Azimuth= 90°



— 90° 6200.00 MHz ETotal  
XY Plane  
Azimuth Cut  
Elevation= 90°

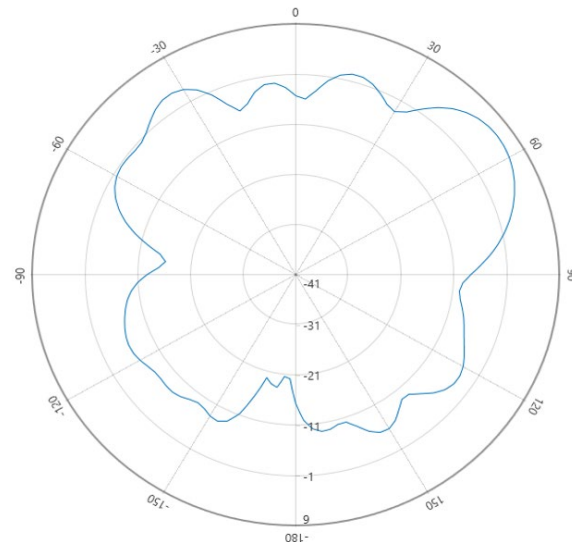


# 5-7 GHz: 8dBi Radiation Pattern [6.5 GHz]

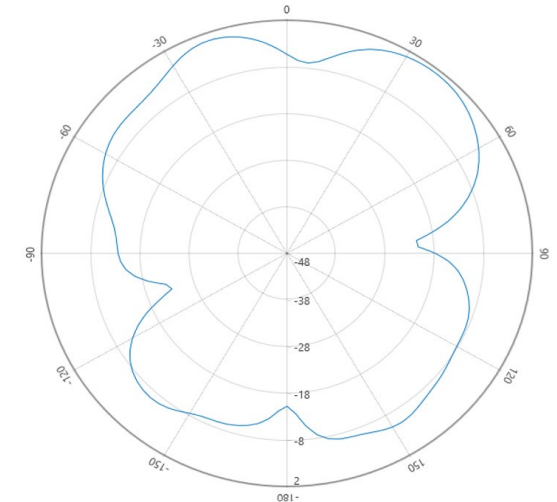


Rendition of The Board (Top View)

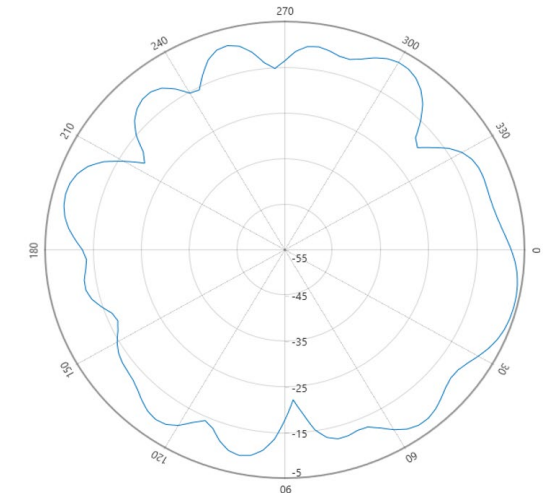
— 0° 6500.00 MHz ETotal  
XZ Plane  
Elevation Cut  
Azimuth= 0°



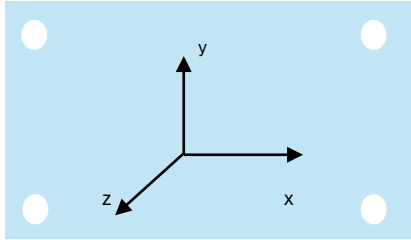
— 90° 6500.00 MHz ETotal  
YZ Plane  
Elevation Cut  
Azimuth= 90°



— 90° 6500.00 MHz ETotal  
XY Plane  
Azimuth Cut  
Elevation= 90°

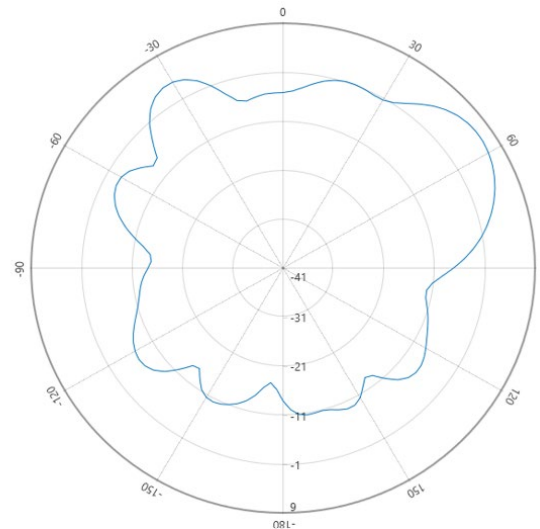


# 5-7 GHz: 8dBi Radiation Pattern [6.7 GHz]

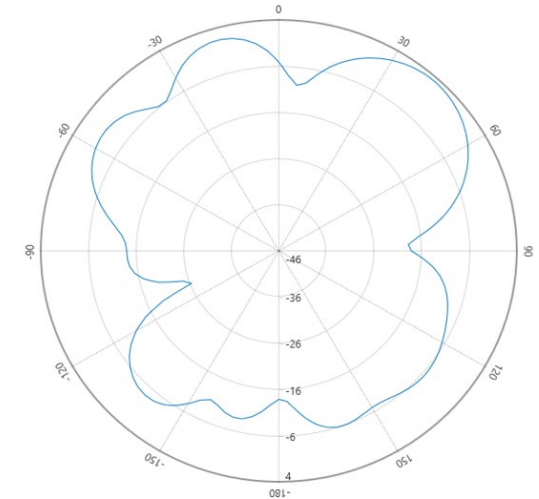


Rendition of The Board (Top View)

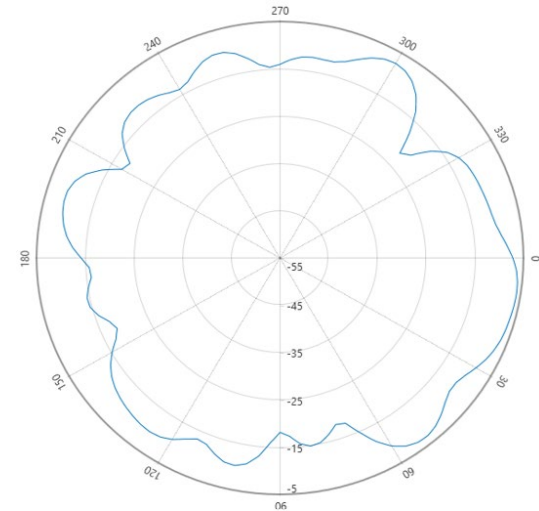
— 0° 6700.00 MHz ETotol  
XZ Plane  
Elevation Cut  
Azimuth= 0°



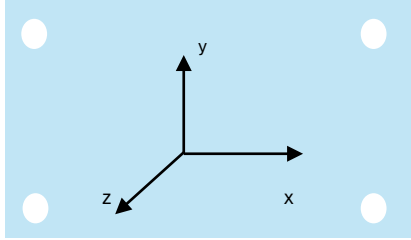
— 90° 6700.00 MHz ETotol  
YZ Plane  
Elevation Cut  
Azimuth= 90°



— 90° 6700.00 MHz ETotol  
XY Plane  
Azimuth Cut  
Elevation= 90°

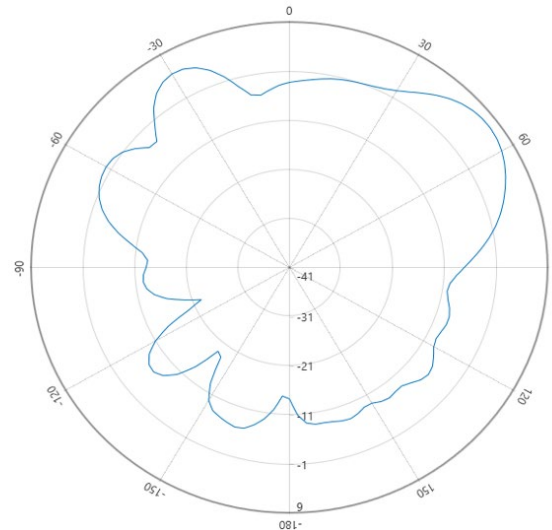


# 5-7 GHz: 8dBi Radiation Pattern [7.0 GHz]

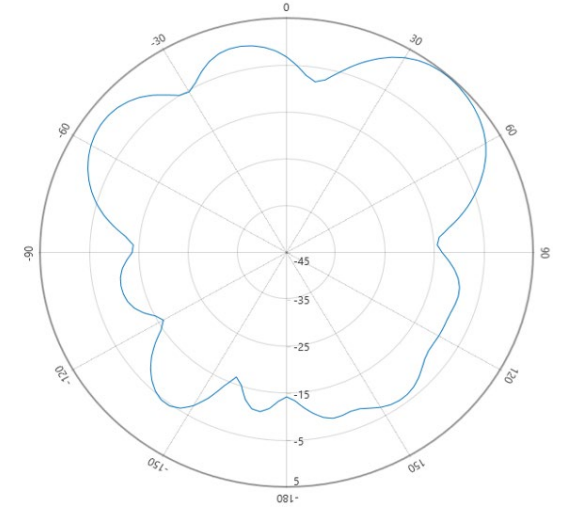


Rendition of The Board (Top View)

— 0° 7000.00 MHz ETotal  
XZ Plane  
Elevation Cut  
Azimuth= 0°



— 90° 7000.00 MHz ETotal  
YZ Plane  
Elevation Cut  
Azimuth= 90°



— 90° 7000.00 MHz ETotal  
XY Plane  
Azimuth Cut  
Elevation= 90°

