

Tango 36

Ceiling-Mounted 3-Port MiMo Wi-Fi 6e Antenna



Key Features

- Supports Dual Band Wi-Fi 2.4G & 5G
- Supports Wi-Fi 6E for extended high-band coverage
- Supports IEEE 802.11ac and 802.11ax
- Triple antenna MiMo system for enhanced throughput
- Peak gain up to 4.35 dBi
- Ceiling-mounted for optimised indoor coverage
- Ground plane independent

Typical Applications

- Ceiling-mounted wireless access points
- In-building wireless coverage extension
- Enterprise Wi-Fi deployment
- Indoor wireless repeaters
- Embedded in indoor smart infrastructure

General Description

The Tango 36 is a ceiling-mounted embedded antenna designed for tri-band Wi-Fi applications. Featuring a 3-port MiMo configuration, each internal antenna is arranged on a different spatial plane to optimise signal diversity and minimise multi-path fading.

It supports 2.4 GHz and 5 GHz ISM bands, including the full Wi-Fi 6E spectrum up to 7125 MHz, making it ideal for next-generation Wi-Fi installations. Its compact dome-shaped enclosure ensures discreet integration into ceiling panels.

The radome is designed to withstand indoor environmental variations, and the antenna is supplied with three low-loss cables and reverse polarity SMA male connectors as standard.

Custom cable lengths and connectors are available for volume requirements.

T Through	WiFi 2.4G & 5G	WiFi 4 802.11n	WiFi 5 802.11ac	WiFi 6 802.11ax
WiFi 6e 802.11ax	WiFi 7 802.11be	WLAN 2400	WLAN 5800	IEEE 802.15.4
ISM 2.4G	ISM 5.8G	BLE Bluetooth	ZB Zigbee	



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Electrical Specifications

Frequency range:	2400-2500 MHz / 5150-7125 MHz
Impedance:	50 Ohm
Polarisation:	Vertical
Peak gain:	Up to 4.35 dBi
Maximum VSWR:	2.27
Input power:	10 W
Ground plane independent:	Yes

Environmental Specifications

Operating temperature range:	-30 to +60 °C
Storage temperature range:	-30 to +60 °C

Mechanical Specifications

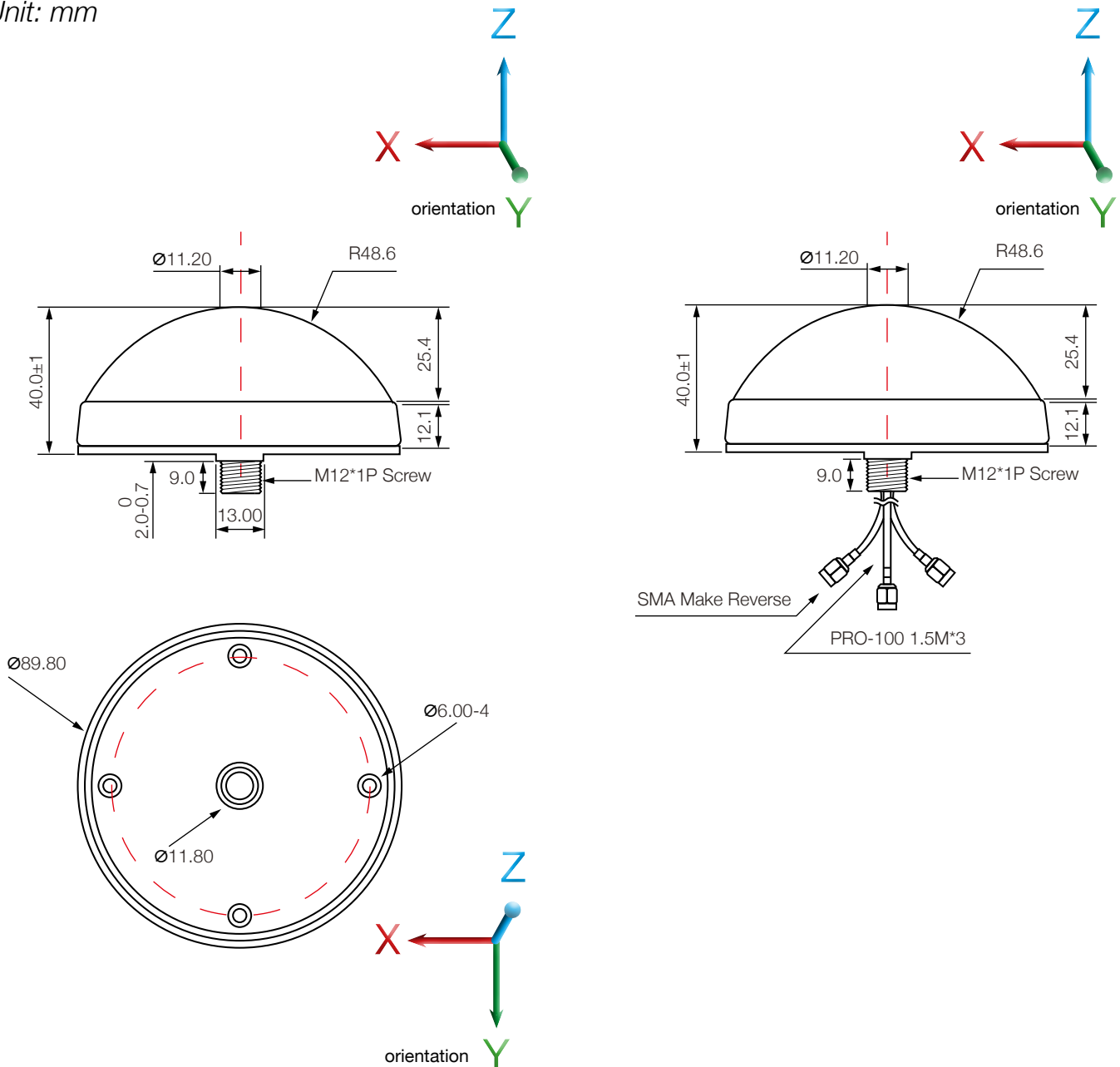
Cable length:	3x Low Loss 100 Cable (1.5m)
Connector:	3x RP-SMA Male
Mounting method:	Through Hole / Ceiling Mount
Dimensions:	Ø90 mm x 40.5 mm height
Weight:	240 g
Housing material:	ABS (dome)

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Dimensional Drawing

Unit: mm

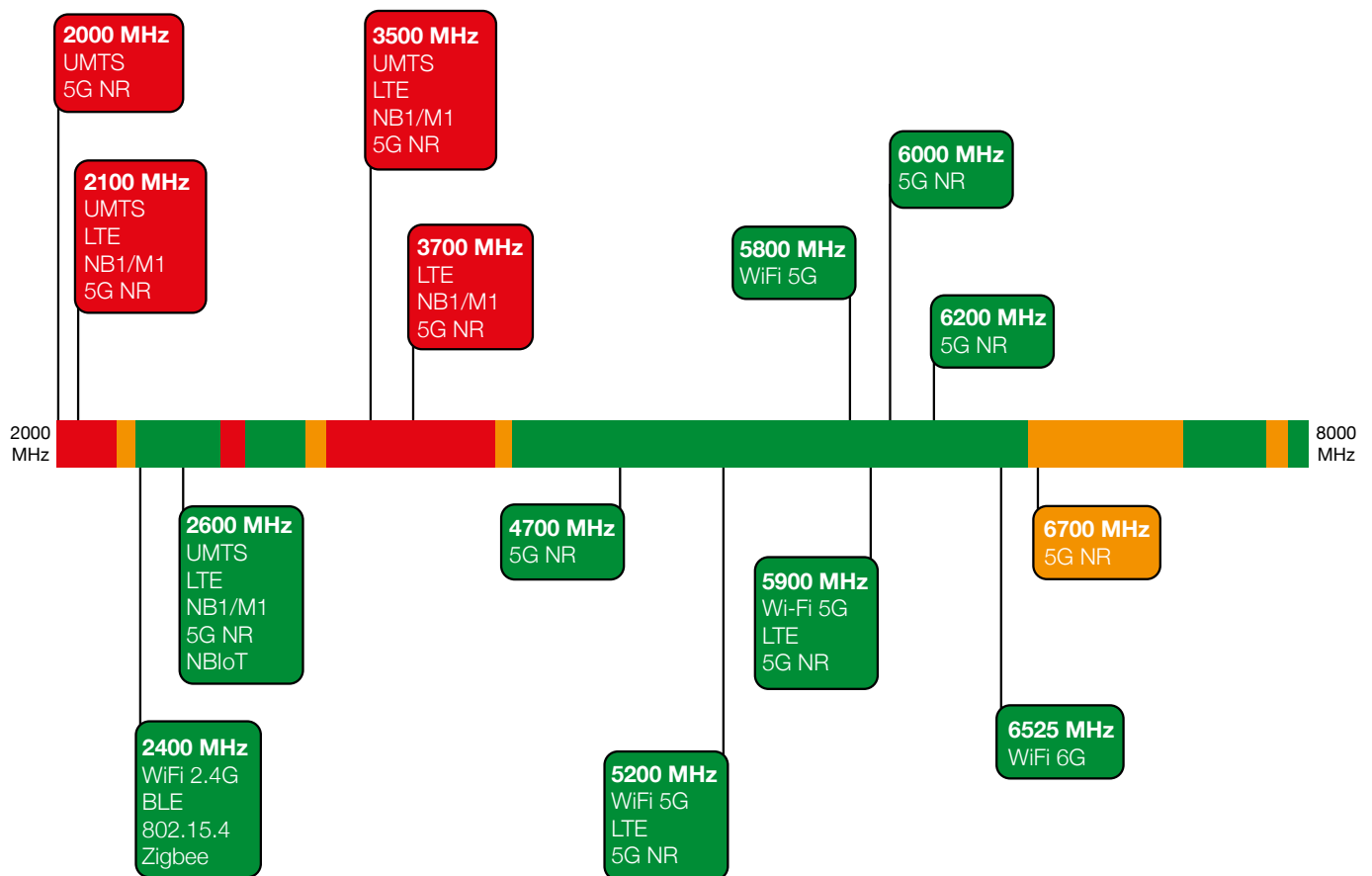




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Spectrum Coverage



● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



Usable Cellular Frequency Support (2100 MHz – 6700 MHz)

	2100	2300	2400	2500	2600	3300	3500	3700	4700	5200	5900	6000	6200	6700
GSM (2G) Bands														
UMTS (3G) Bands					●									
LTE Bands			●	●	●					●	●			
LTE Cat M bands				●	●									
LTE Cat NB Bands				●	●									
NR Bands			●	●	●									
NR Cat NB Bands				●	●				●	●	●	●	●	●

Usable ISM Frequency Support (433 MHz - 6525 MHz)

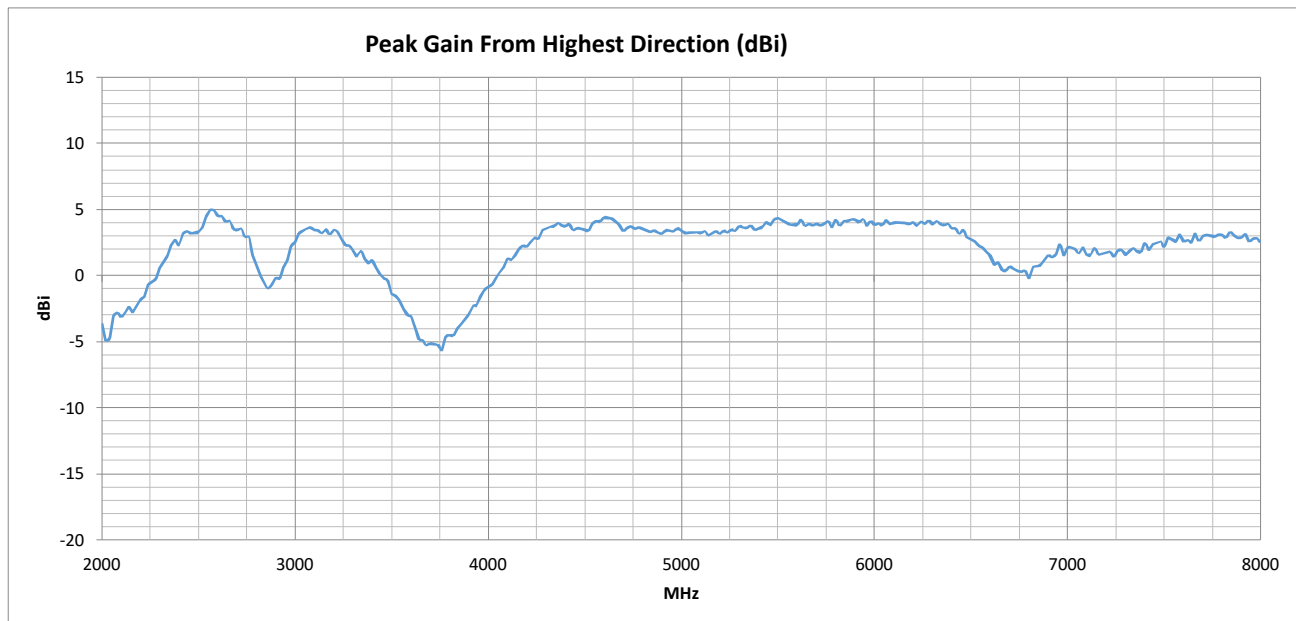
	2450	5800	6525
Bluetooth	●		
IEEE 802.15.4	●		
ISM 2.4G	●		
ISM 5.8G		●	
WiFi 2.4G	●		
WiFi 5G		●	
WiFi 6E			●
Zigbee	●		



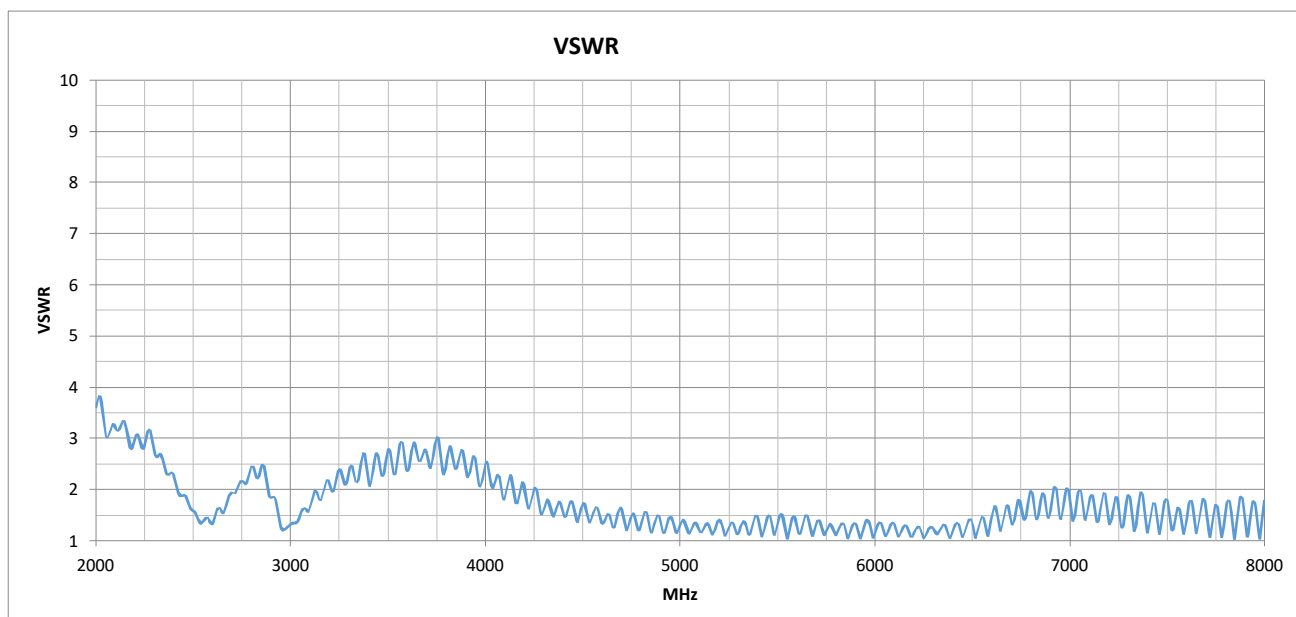
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Peak Gain



VSWR

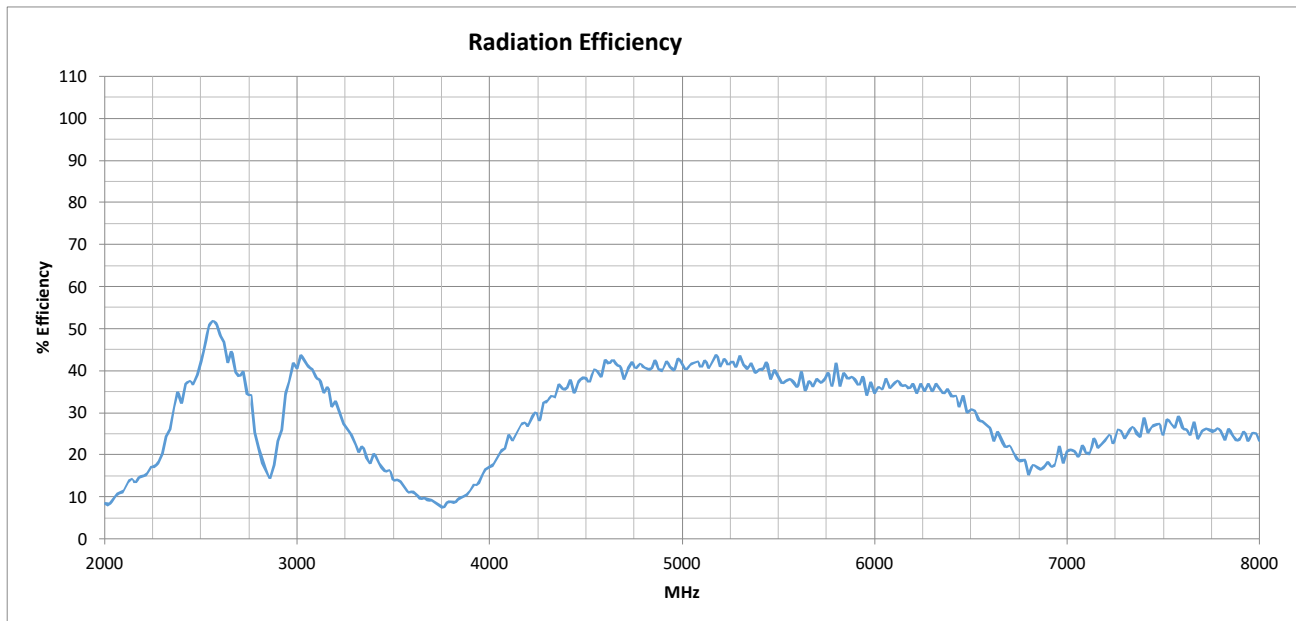




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Radiation Efficiency





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Cellular Standards Band Support

UMTS (3G) Band	E-UTRA (4G) Band	CAT M E-UTRA Band	CAT NB E-UTRA Band	NR (5G) Band	CAT NB NR (5G) Band	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
7	7	7	7	n7	n7	2500 - 2570 MHz	2620 - 2690 MHz	48.23	42.75	1.59	1.91	●
22	22					3410 - 3490 MHz	3510 - 3590 MHz	16.86	12.66	2.72	2.96	●
	30			n30		2305 - 2315 MHz	2350 - 2360 MHz	22.36	30.16	2.67	2.50	●
	34			n34		2010 - 2025 MHz	2010 - 2025 MHz	8.09	8.09	3.85	3.85	●
	38			n38		2570 - 2620 MHz	2570 - 2620 MHz	49.27	49.27	1.60	1.60	●
	40	40		n40		2300 - 2400 MHz	2300 - 2400 MHz	28.67	28.67	2.75	2.75	●
	41	41	41	n41	n41	2496 - 2690 MHz	2496 - 2690 MHz	46.38	46.38	1.91	1.91	●
	42	42	42			3400 - 3600 MHz	3400 - 3600 MHz	14.78	14.78	2.96	2.96	●
	43	43	43			3600 - 3800 MHz	3600 - 3800 MHz	9.05	9.05	3.05	3.05	●
	46			n46		5150 - 5925 MHz	5150 - 5925 MHz	39.28	39.28	1.53	1.53	●
	47			n47		5855 - 5925 MHz	5855 - 5925 MHz	37.74	37.74	1.34	1.34	●
	48	48	48	n48		3550 - 3700 MHz	3550 - 3700 MHz	10.39	10.39	2.96	2.96	●
	49					3550 - 3700 MHz	3550 - 3700 MHz	10.39	10.39	2.96	2.96	●
	52					3300 - 3400 MHz	3300 - 3400 MHz	20.37	20.37	2.74	2.74	●
	53			n53		2483.5 - 2495 MHz	2483.5 - 2495 MHz	40.18	40.18	1.65	1.65	●
	69					N/A	2570 - 2620 MHz	N/A	49.27	N/A	1.60	●
				n77		3300 - 4200 MHz	3300 - 4200 MHz	15.33	15.33	3.05	3.05	●
				n78		3300 - 3800 MHz	3300 - 3800 MHz	13.61	13.61	3.05	3.05	●
				n79		4400 - 5000 MHz	4400 - 5000 MHz	40.06	40.06	1.78	1.78	●
				n90	n90	2496 - 2690 MHz	2496 - 2690 MHz	46.38	46.38	1.91	1.91	●
				n95		2010 - 2025 MHz	N/A	8.09	N/A	3.85	N/A	●
				n96		5925 - 7125 MHz	5925 - 7125 MHz	28.05	28.05	2.07	2.07	●
				n97		2300 - 2400 MHz	N/A	28.67	N/A	2.75	N/A	●
				n102		5925 - 6425 MHz	5925 - 6425 MHz	35.98	35.98	1.41	1.41	●
				n104		6425 - 7125 MHz	6425 - 7125 MHz	22.39	22.39	2.07	2.07	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



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● Suitable band ● Adequate band in good signal conditions ● Likely to be unsuitable

NOTE: For each frequency band, Siretta provides a traffic light indication to show the suitability of the antenna for use at that frequency band. Determination of exactly what makes an antenna good or bad at any frequency is subjective.

The view presented is that of Siretta's engineering team having taken into account the efficiency and VSWR measurements. The end user is advised to use their own criteria and/or testing to confirm suitability.



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ISM Standards Frequency Support

Application	Frequency Range	Efficiency (%)	Maximum VSWR	Peak Gain from highest direction (dBi)	Use Indicator
ISM 2.4 GHz	2400 - 2500 MHz	37.35	2.27	3.35	●
WiFi 2.4G	2401 - 2483 MHz	36.75	2.26	3.35	●
WiFi 2.4G (USA)	2401 - 2473 MHz	36.50	2.26	3.35	●
WiFi 2.4G (Japan)	2401 - 2495 MHz	37.18	2.26	3.35	●
WiFi 5G (all channels)	5150 - 5990 MHz	39.07	1.53	4.35	●
WiFi 5G (Ch 32-48)	5150 - 5250 MHz	42.21	1.42	3.43	●
WiFi 5G (Ch 32-64)	5150 - 5330 MHz	42.09	1.42	3.80	●
WiFi 5G (Ch 32-161)	5150 - 5815 MHz	39.51	1.53	4.35	●
WiFi 5G (Ch 32-173)	5150 - 5875 MHz	39.40	1.53	4.35	●
WiFi 6E (Ch 1-93)	5925 - 6425 MHz	35.98	1.41	4.34	●
WiFi 6E (all channels)	5925 - 7125 MHz	28.05	2.07	4.34	●
ISM 5.8 GHz	5725 - 5875 MHz	38.42	1.34	4.30	●
UWB band 1	3168 - 3696 MHz	18.38	2.96	3.47	●
UWB band 2	3696 - 4224 MHz	16.16	3.05	2.60	●
UWB band 3	4224 - 4752 MHz	37.22	2.04	4.44	●
UWB band 4	4752 - 5280 MHz	41.40	1.58	3.66	●
UWB band 5	5280 - 5808 MHz	38.88	1.53	4.35	●
UWB band 6	5808 - 6336 MHz	36.64	1.41	4.34	●
UWB band 7	6336 - 6864 MHz	25.86	1.98	3.94	●
UWB band 8	6864 - 7392 MHz	21.96	2.07	2.49	●
UWB band 9	7392 - 7920 MHz	25.98	1.88	3.36	●

● Suitable band

● Adequate band in good signal conditions

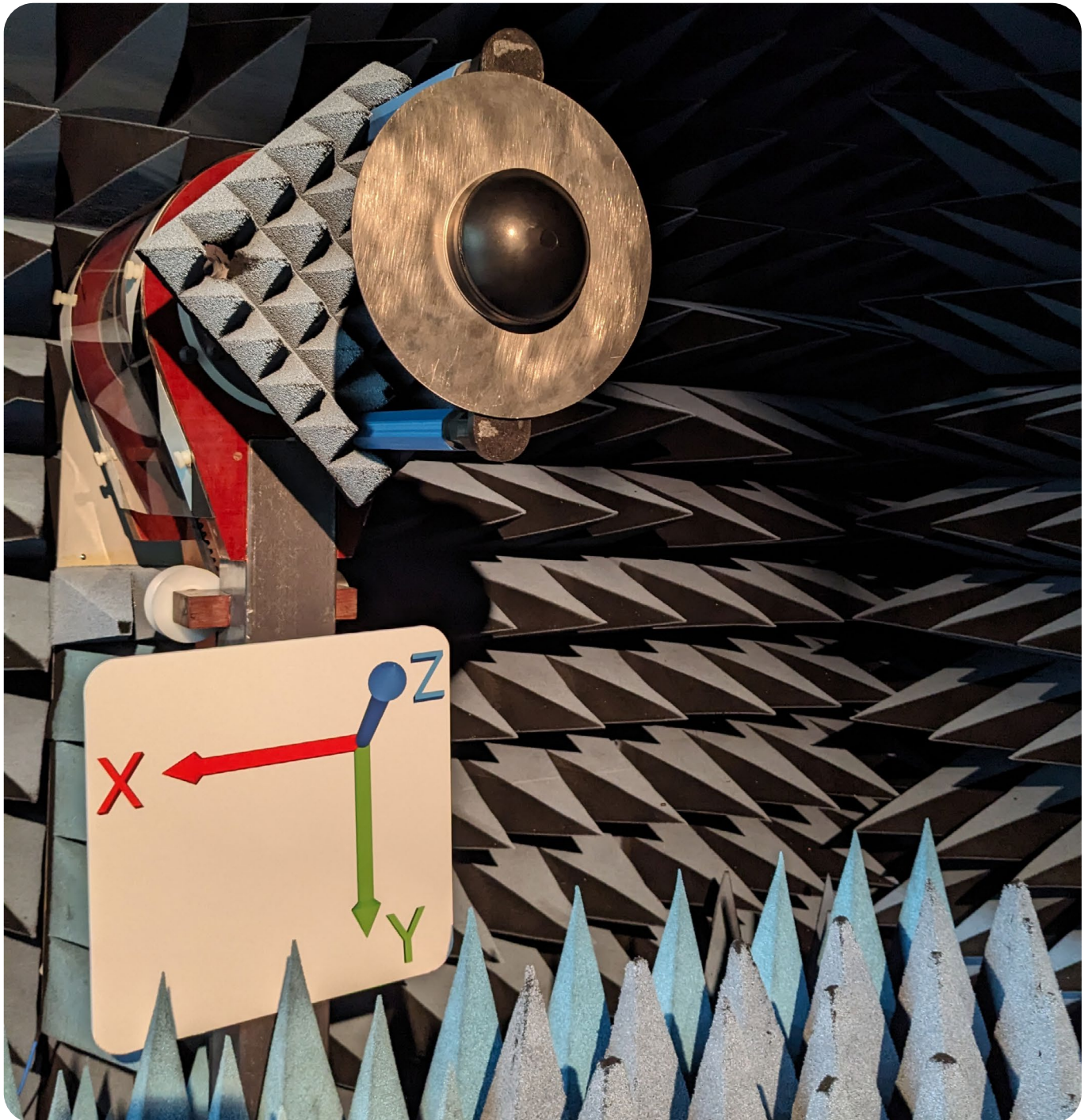
● Likely to be unsuitable



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Test Setup (in Ø200 mm Ground Plane)

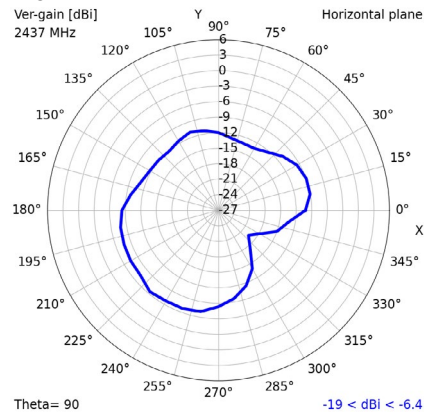


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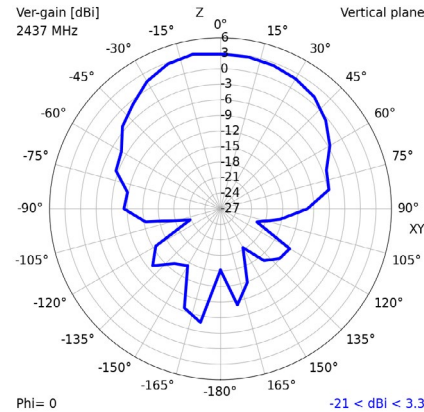
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2D Radiation Plots

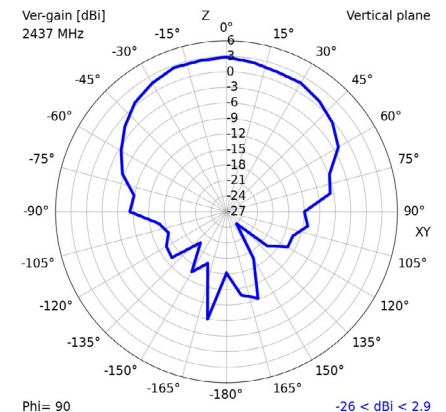
2437 MHz XY



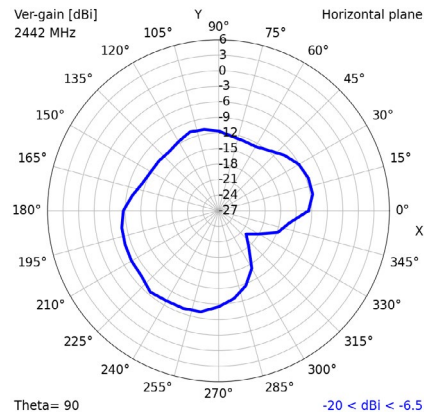
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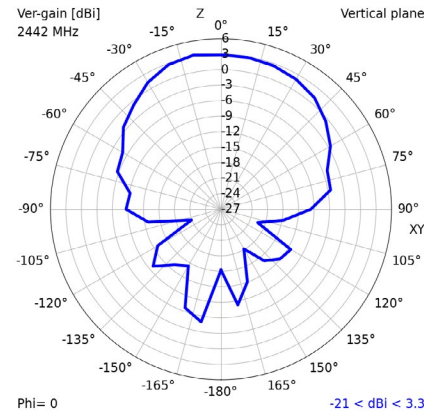
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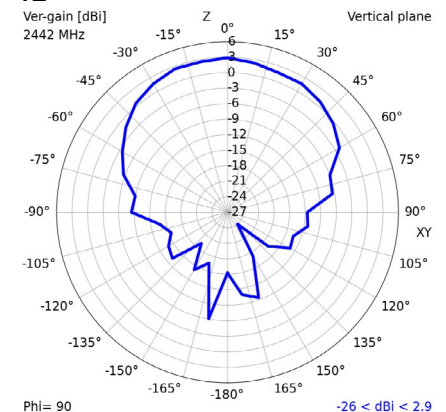
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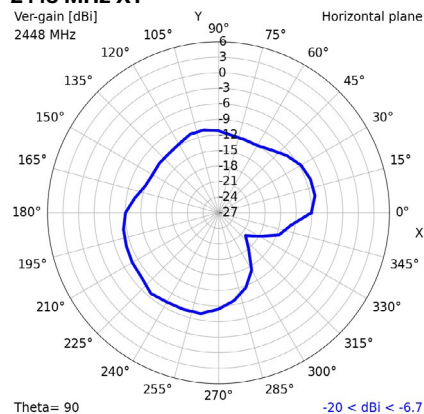
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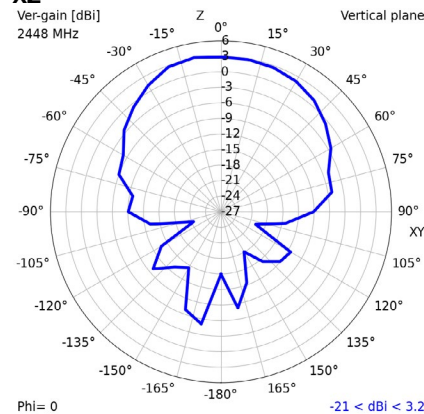
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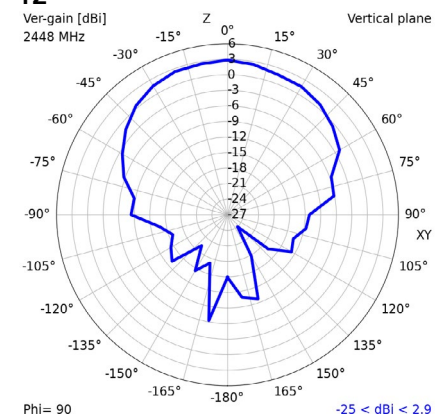
2448 MHz XY



XZ



YZ



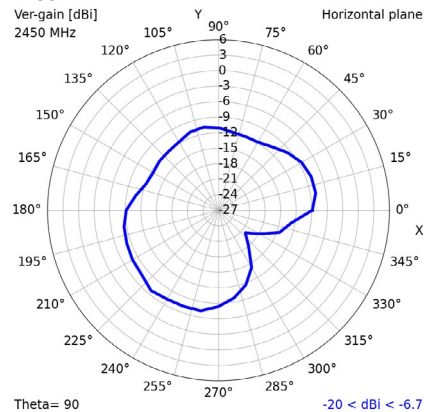


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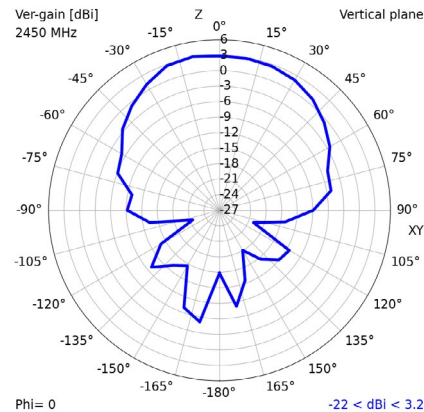
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2D Radiation Plots

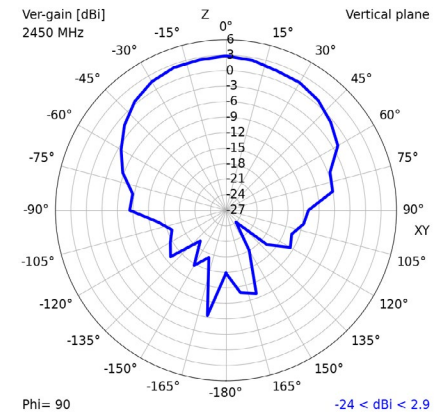
2450 MHz XY



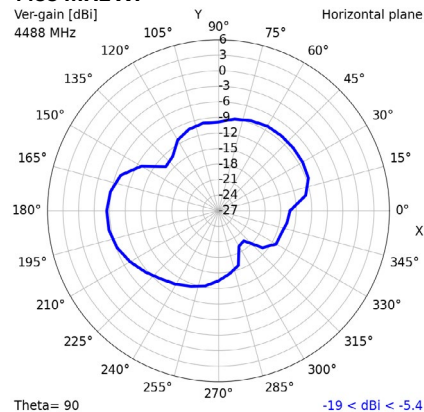
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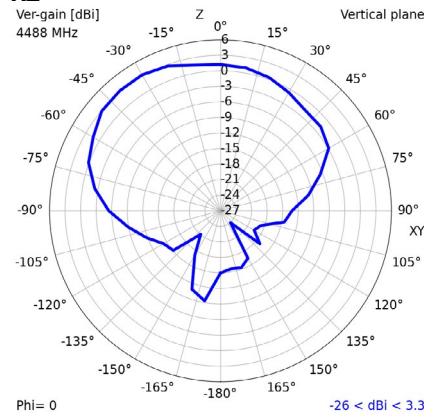
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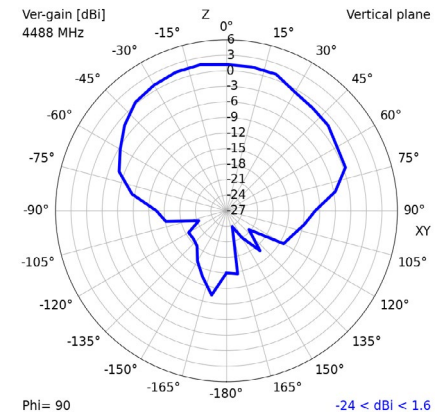
4488 MHz XY



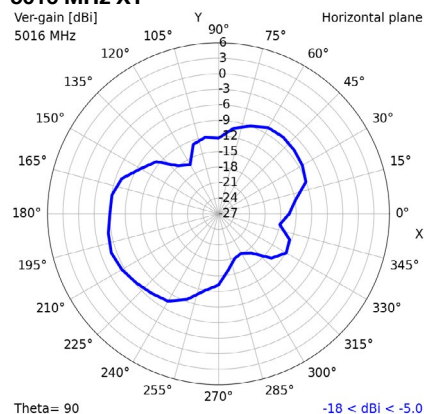
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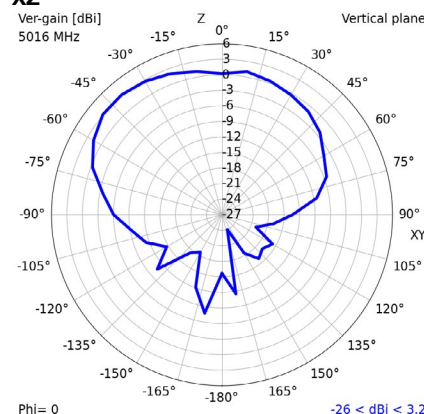
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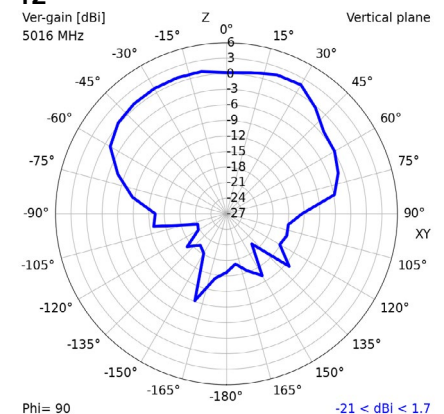
5016 MHz XY



XZ



YZ

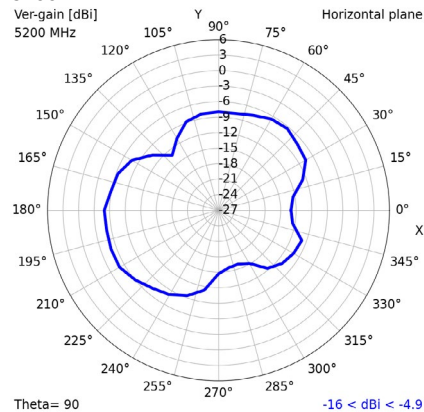


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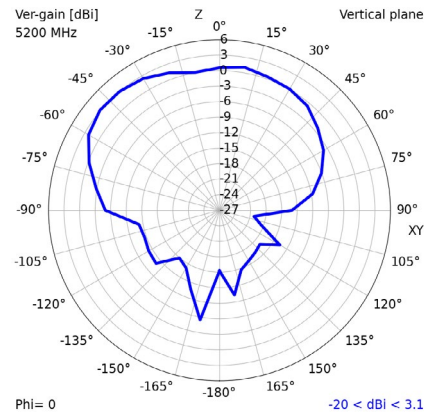
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2D Radiation Plots

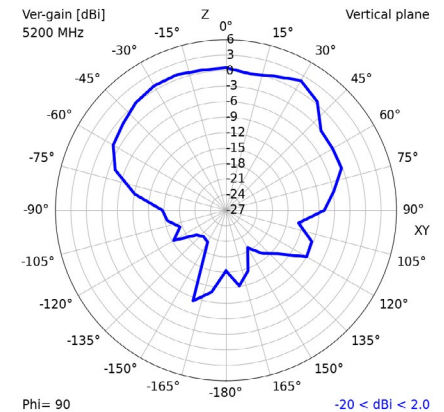
5200 MHz XY



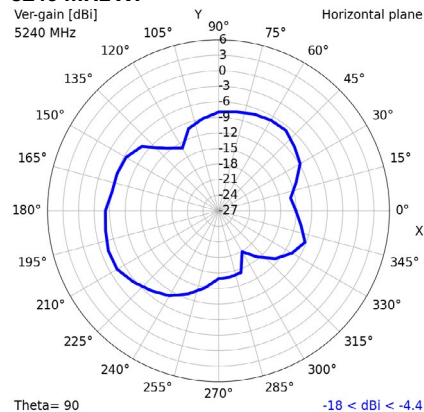
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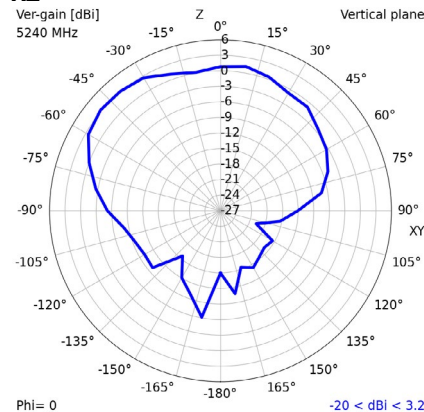
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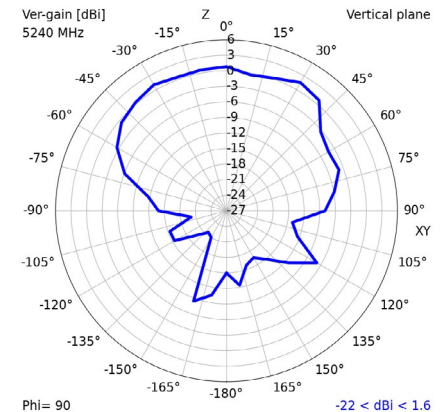
5240 MHz XY



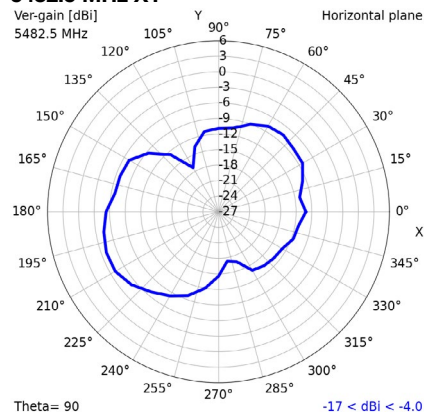
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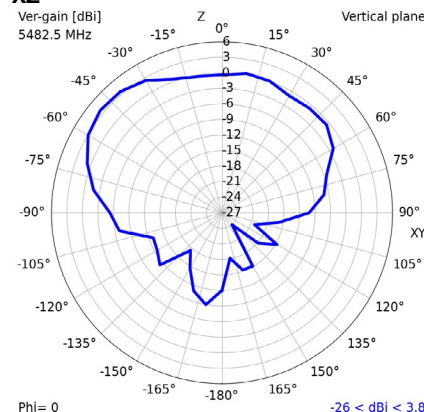
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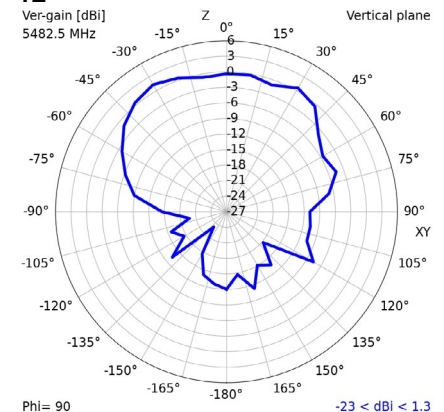
5482.5 MHz XY



XZ



YZ



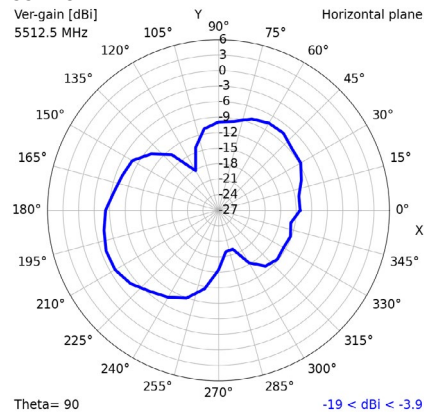


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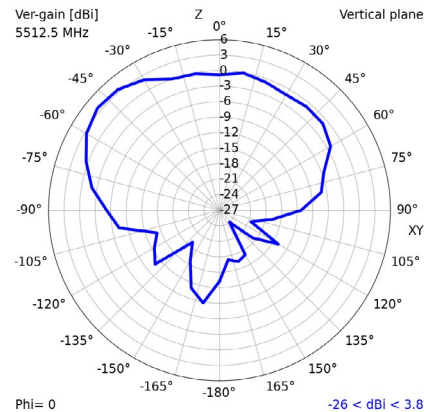
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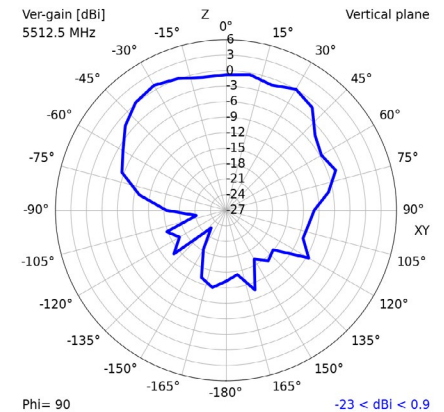
5512.5 MHz XY



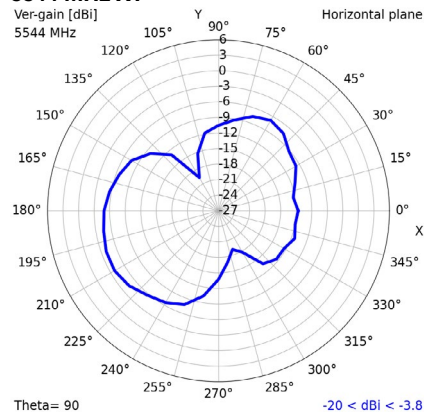
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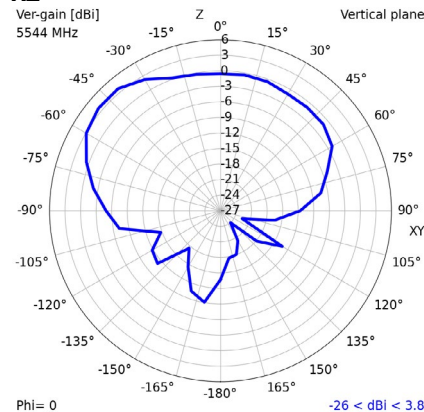
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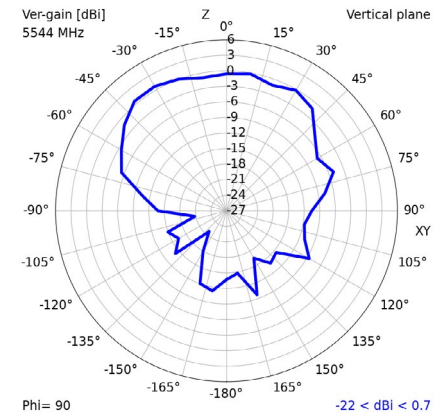
5544 MHz XY



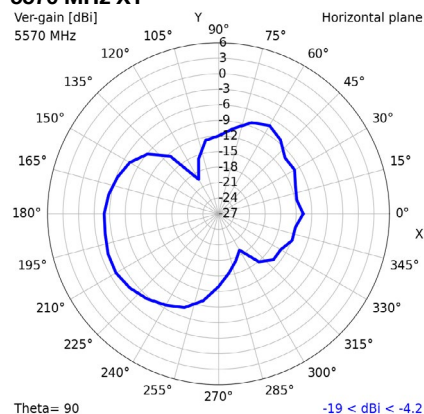
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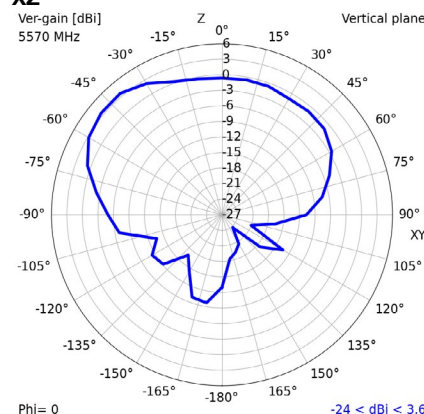
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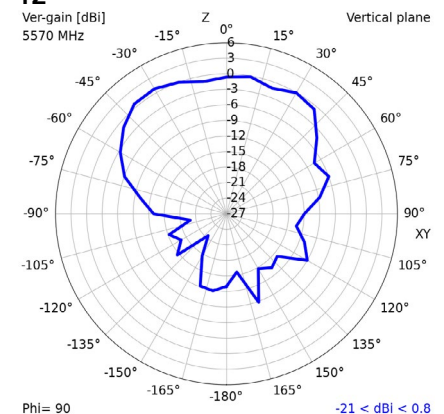
5570 MHz XY



XZ



YZ



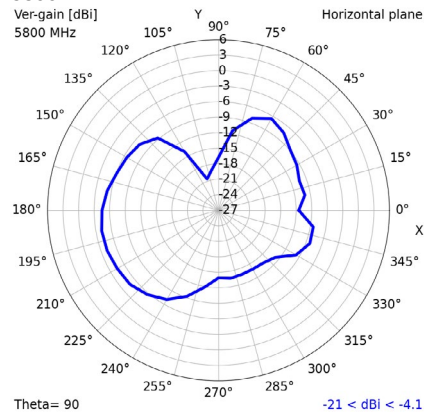


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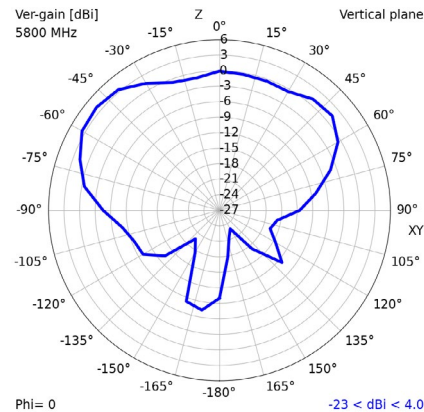
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2D Radiation Plots

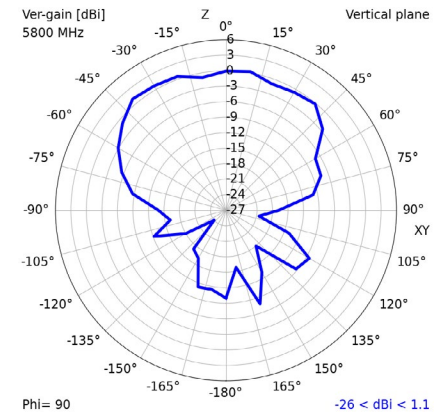
5800 MHz XY



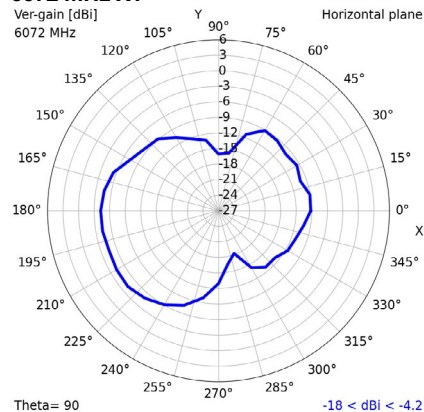
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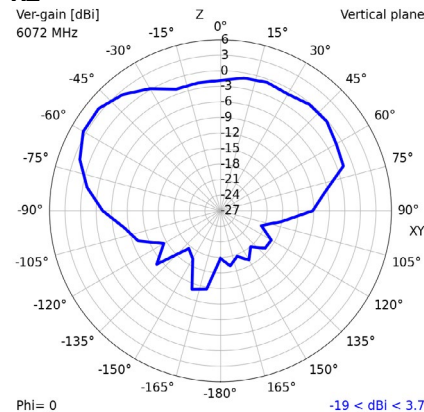
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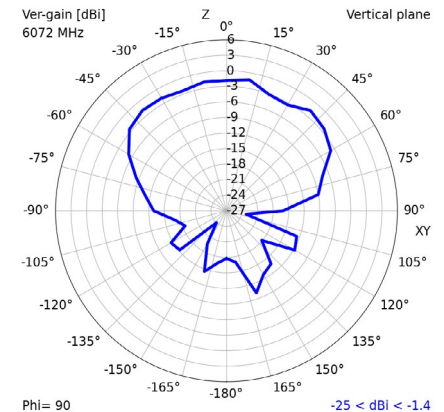
6072 MHz XY



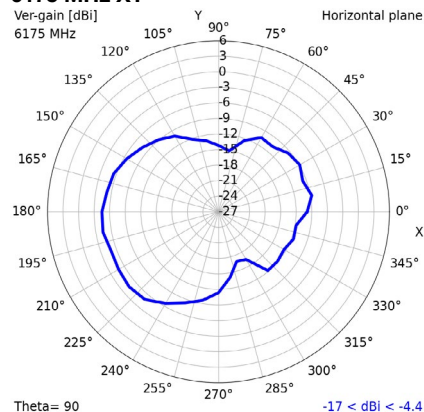
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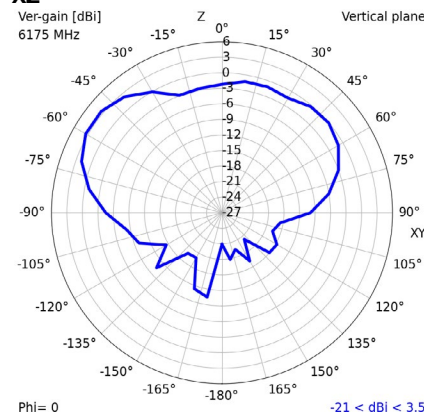
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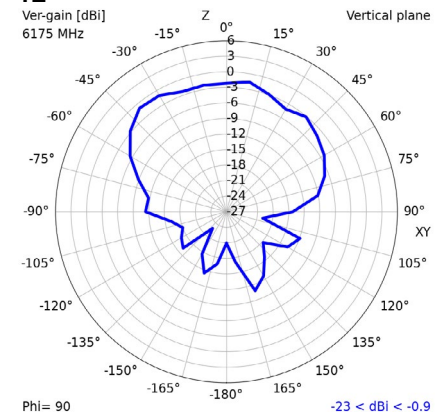
6175 MHz XY



XZ



YZ

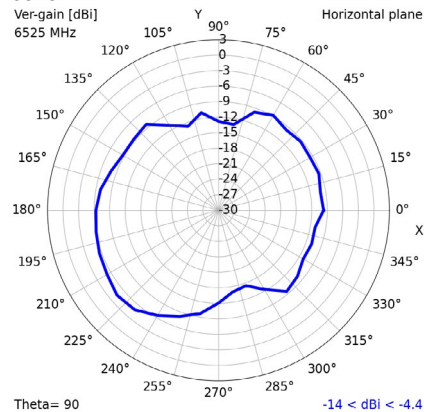


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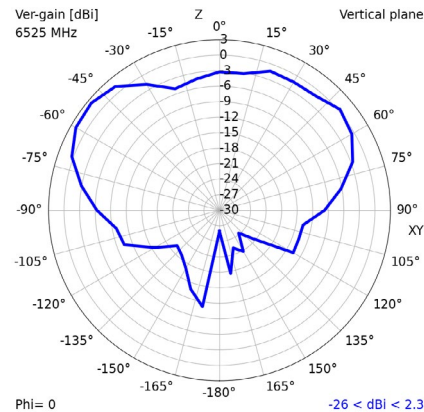
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2D Radiation Plots

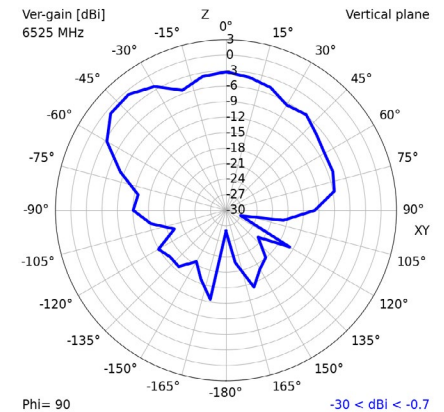
6525 MHz XY



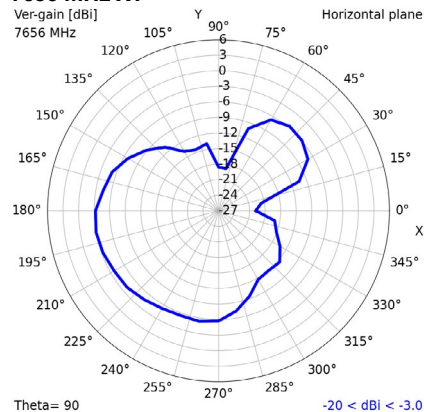
XZ



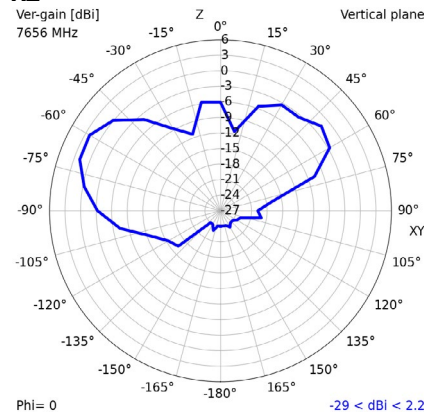
YZ



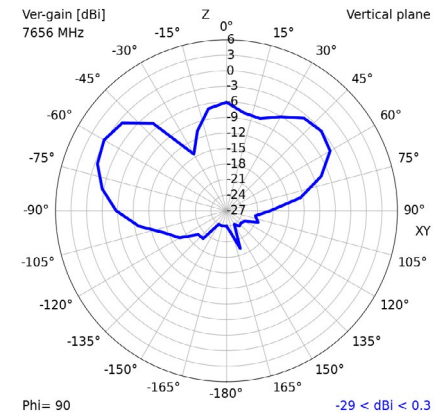
7656 MHz XY



XZ



YZ



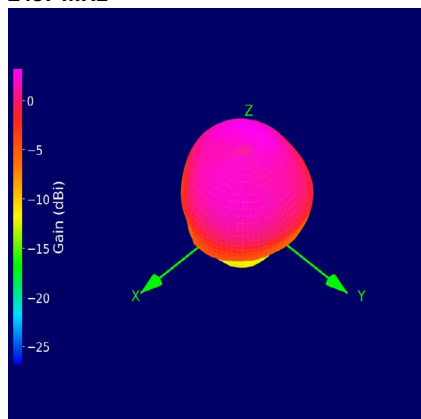


Tango 36

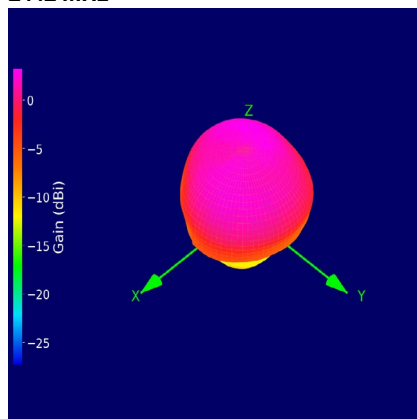
Ceiling-Mounted 3-Port MiMo Wi-Fi 6e Antenna

3D Radiation Plots

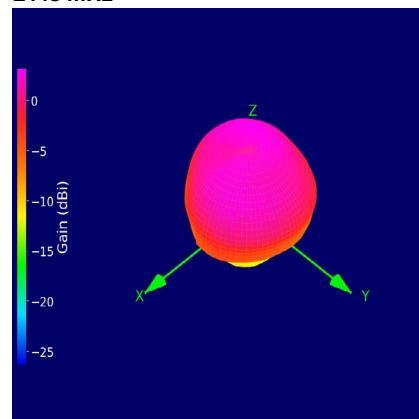
2437 MHz



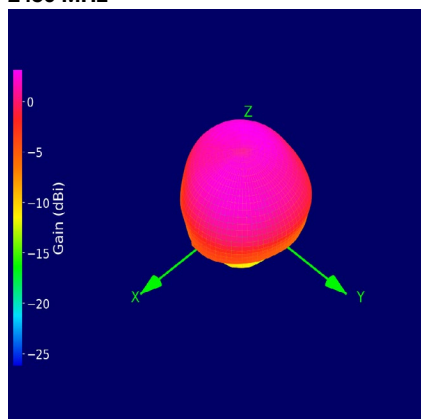
2442 MHz



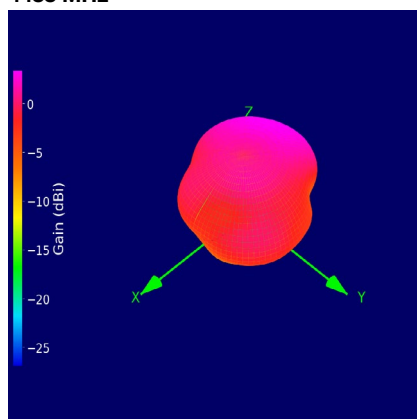
2448 MHz



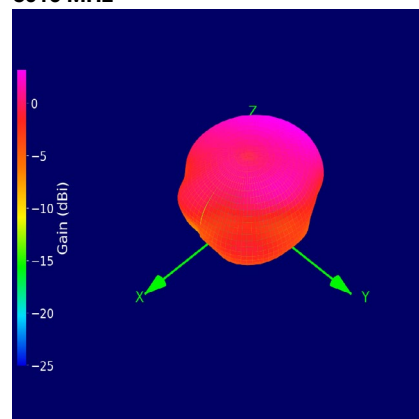
2450 MHz



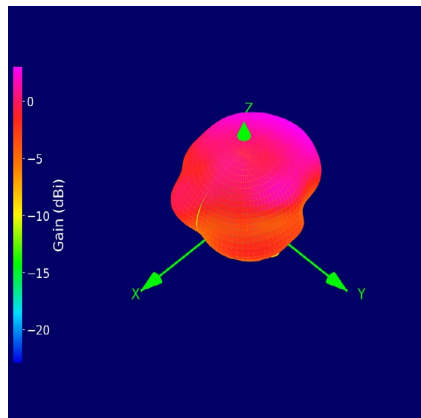
4488 MHz



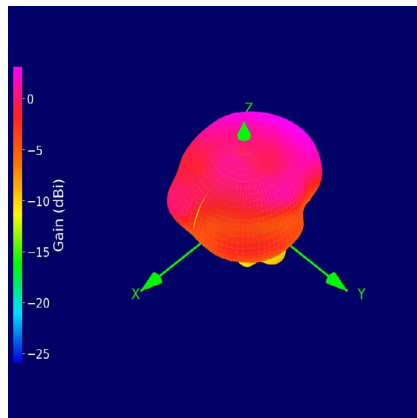
5016 MHz



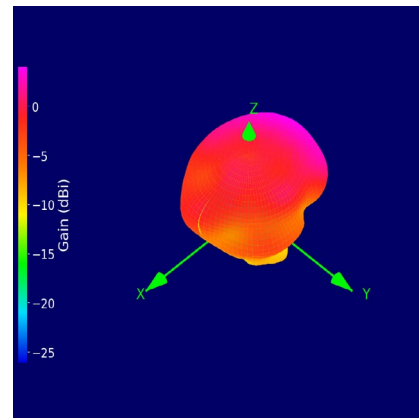
5200 MHz



5240 MHz



5482.5 MHz



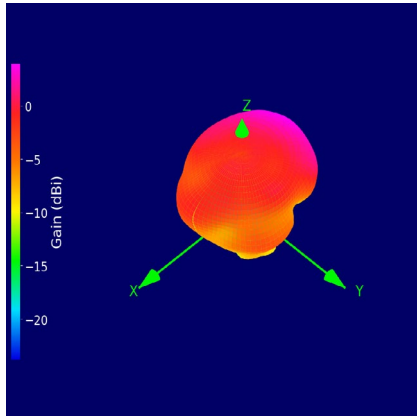


Tango 36

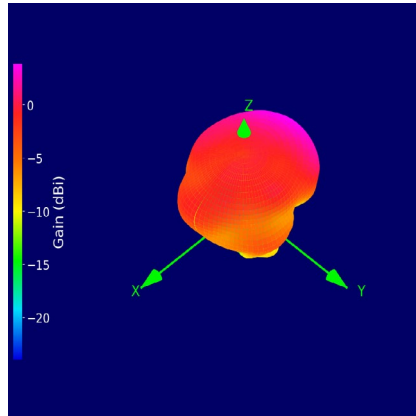
Ceiling-Mounted 3-Port MiMo Wi-Fi 6e Antenna

3D Radiation Plots

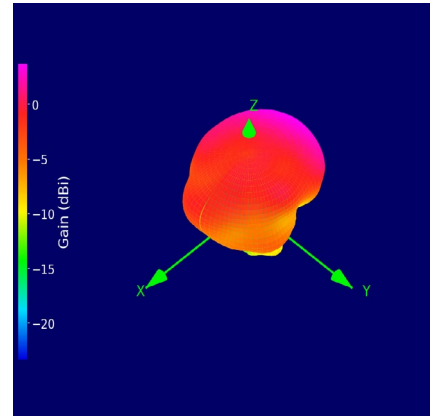
5512.5 MHz



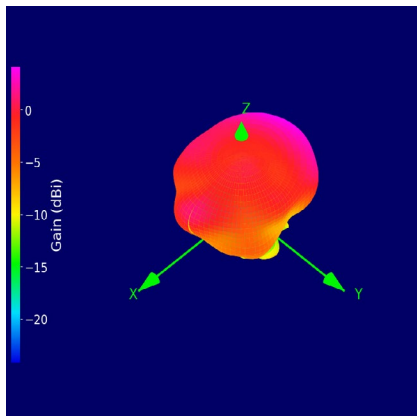
5544 MHz



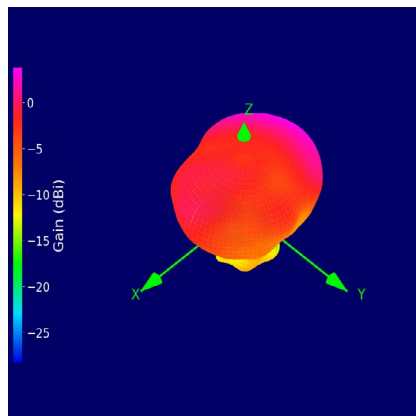
5570 MHz



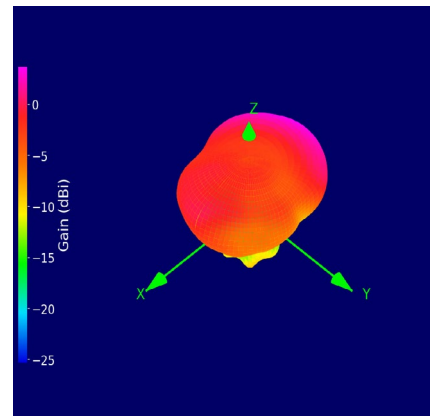
5800 MHz



6072 MHz



6175 MHz



NOTE: All 3D radiation plots are shown with Theta = 45 and Phi = 45.



Tango 36

Ceiling-Mounted 3-Port MiMo Wi-Fi 6e Antenna

Ordering Details:

Part Number	Description
TANGO36/1.5M/SMAM/RP/S/29	Ceiling-Mounted 3-Port MiMo Wi-Fi 6e Antenna with 1.5m Low Loss 100 cables and RP-SMA Male connectors