Siretta
Enabling Industrial IoT

Tango 61

2x2 MIMO Omnidirectional Ceiling Mount 4G/5G DAS Antenna





700–6000 MHz
Ultra-Wideband

2×2 MIMO
Dual-Port

Cellular
3G–5G Support

Indoor
Ceiling Mount

DAS
Deployment Ready

General Description

The Tango 61 is a 2-port, ceiling-mounted antenna engineered for high-performance indoor wireless coverage across an ultra-wide frequency range of 700–6000 MHz. Designed specifically for Distributed Antenna System (DAS) deployments, it enables the efficient distribution of cellular and wireless services throughout buildings, helping to enhance coverage, capacity, and user experience in high-density environments.

Supporting 2×2 MIMO operation, the Tango 61 improves network throughput and signal reliability, making it well suited to offices, commercial buildings, transport hubs, hospitality venues, and other demanding indoor applications.

Its ultra-wideband frequency coverage supports a broad range of cellular, LPWAN, and Wi-Fi technologies, enabling a single antenna solution for converged wireless infrastructure.

The low-profile enclosure integrates discreetly into indoor environments, preserving building aesthetics while delivering consistent RF performance.

The antenna is fitted with N-Type female connectors as standard, with 4.3-10 female connectors available as an option. Internally, PCB-based radiating elements provide high efficiency, stable gain characteristics, and reliable performance across the supported frequency range.

Key Features

- Operates between 700 MHz – 6000 MHz
- Supports 5G NR / 4G LTE / 3G UMTS / 2G GSM frequency bands
- Supports LTE Cat M / LTE Cat NB-IoT
- Supports Wi-Fi dual band 2.4 GHz & 5 GHz
- Supports Bluetooth / Zigbee / IEEE 802.15.4 / ISM 2.4 GHz / ISM 5.8 GHz
- Discreet, low-profile ceiling mount design for indoor coverage

Typical Applications

- Indoor wireless access points in large buildings
- Commercial smart building infrastructure
- Enterprise-grade signal distribution
- DAS installations

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Electrical Specifications

Frequency Range:	700–960 MHz 1700–6000 MHz
Impedance:	50 Ohm
Polarisation:	Horizontal
Peak Gain	
700-960 MHz:	4.94 dBi
1700-6000 MHz:	4.70 dBi
Average Spherically Integrated Total Gain:	
700-960 MHz:	-0.66 dBi
1700-6000 MHz:	-0.94 dBi
Max Input Power:	50 W
Ground plane independent:	Yes

Environmental Specifications

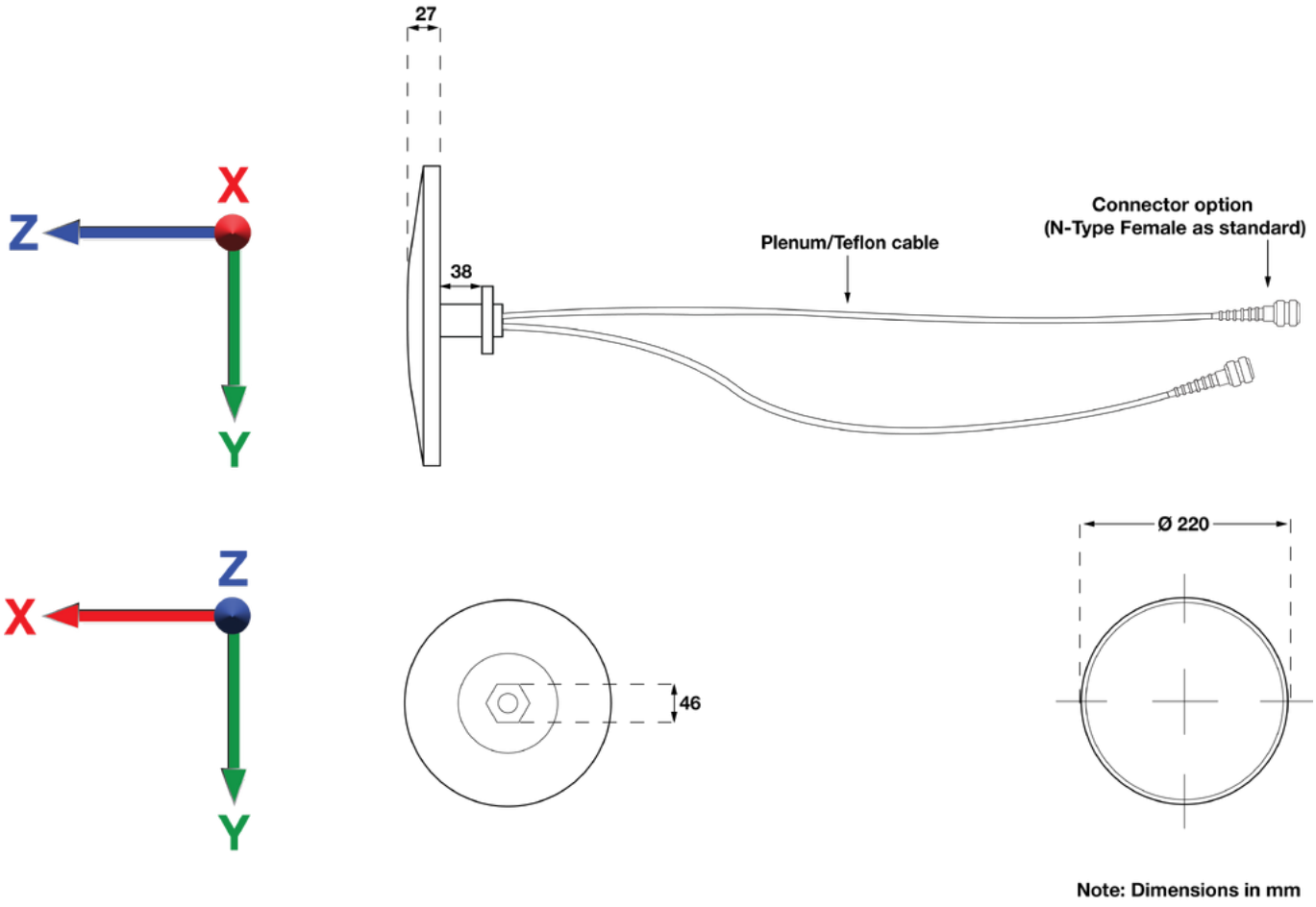
Operating Temperature range:	-30°C to 70 °C
Storage Temperature range:	-40°C to 85 °C

Mechanical Specifications

Dimensions:	Ø 220 x 27 mm
Weight:	300 g
Cable:	Plenum, Teflon
Connector:	N-Type Female as standard (4.3-10 Female option available)
Mounting method:	Ceiling

Ports:	2 x MIMO
Housing materials:	ABS UV

Mechanical Drawing



Note: Dimensions in mm

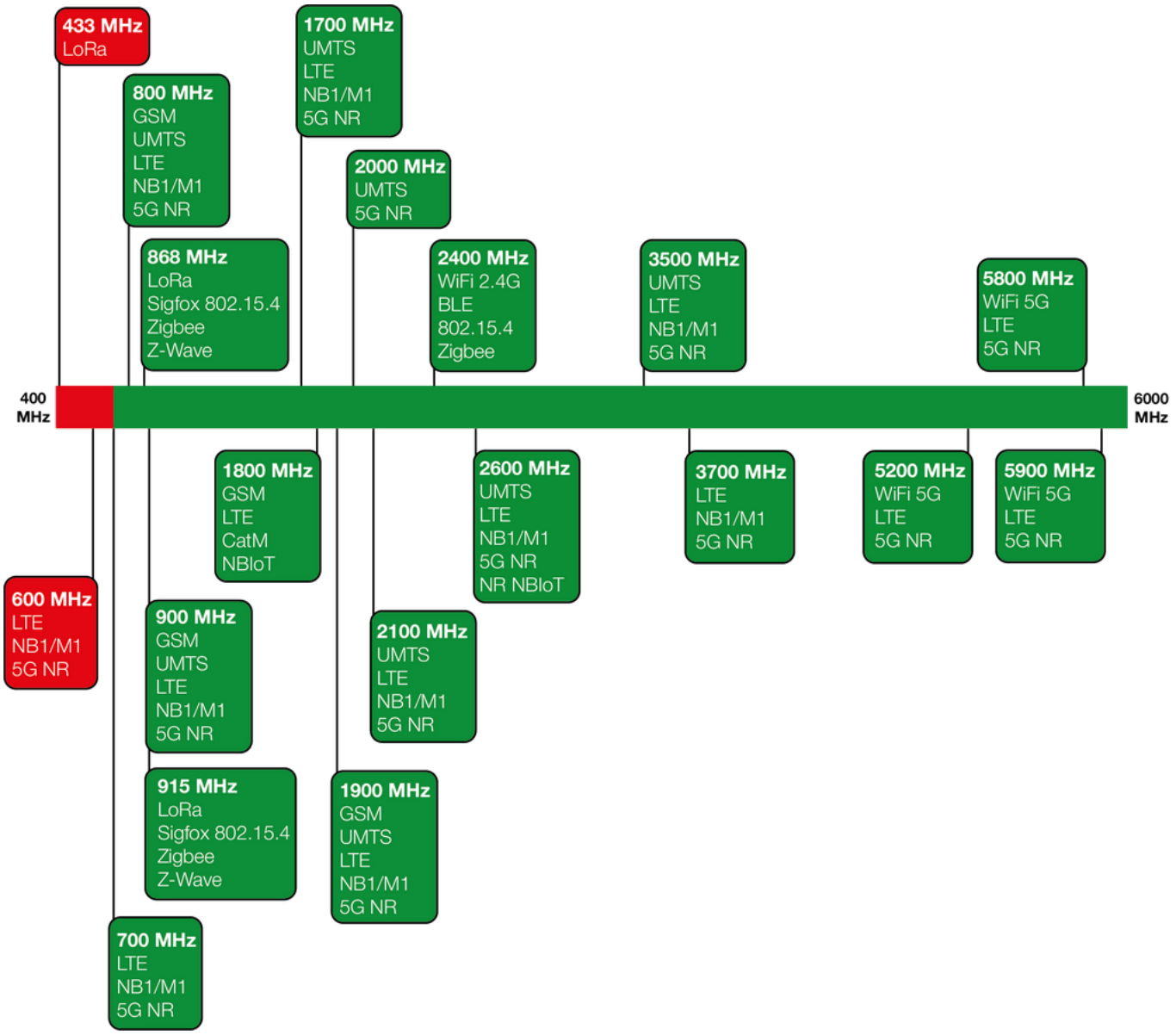
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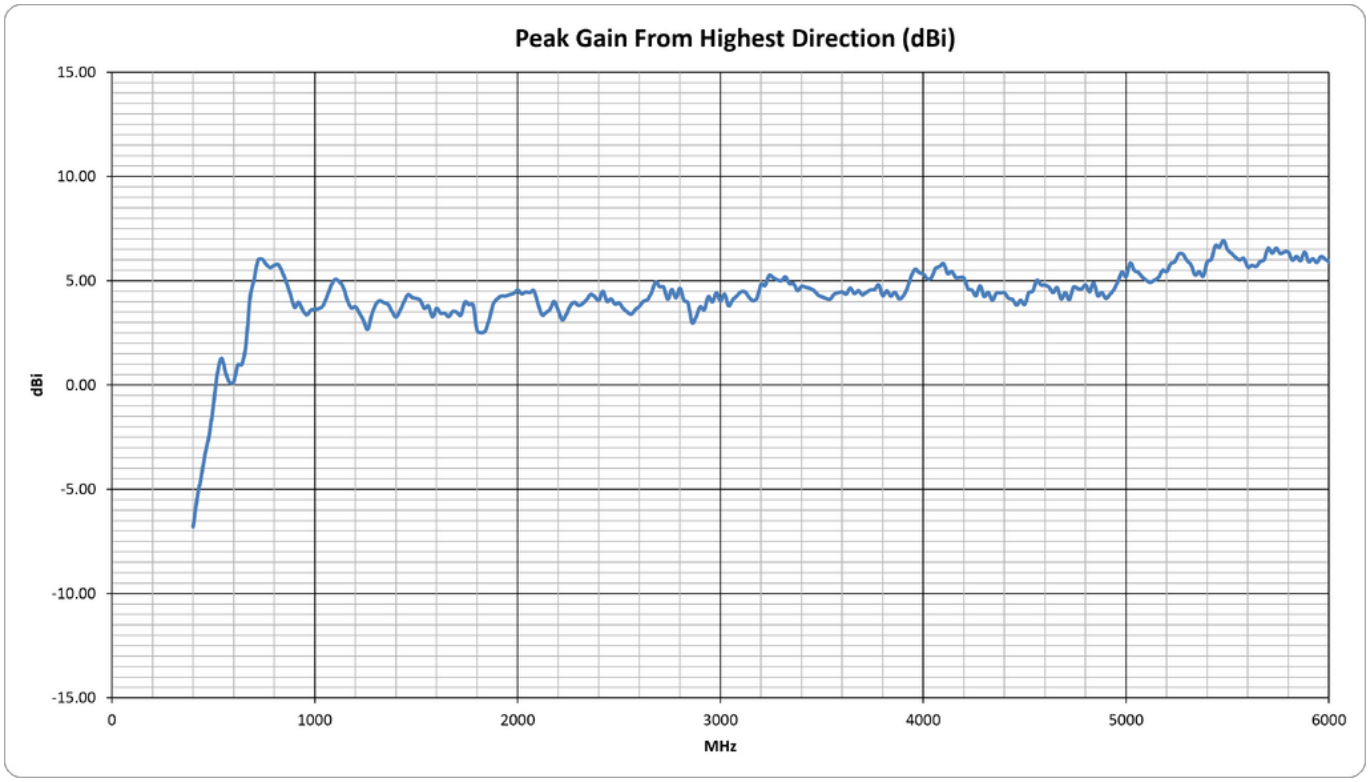
2x2 MIMO Omnidirectional Ceiling Mount 4G/5G DAS Antenna

Spectrum Coverage*

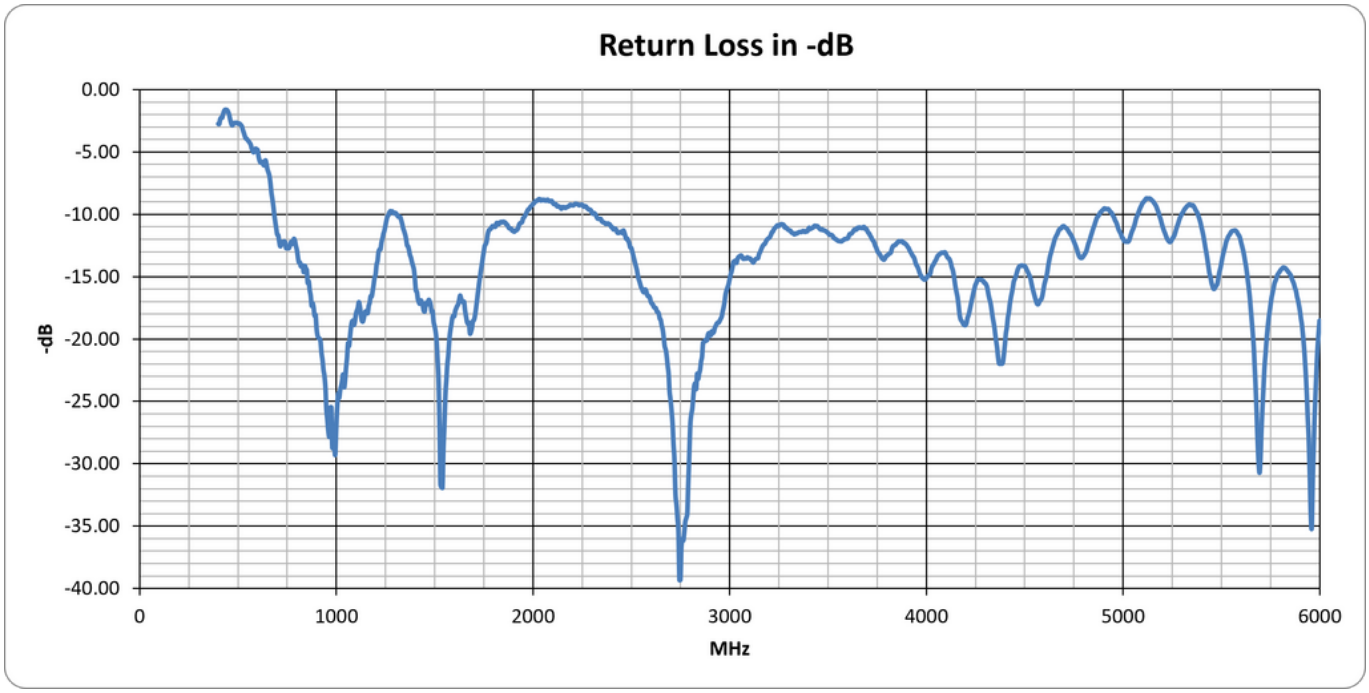
The Spectral View Diagram visually describes the performance of the antenna from 400 MHz to 6000 MHz. Key frequencies are marked highlighting the technology used and the colour represents the performance at that frequency, taking into consideration the VSWR and radiated efficiency of the antenna.



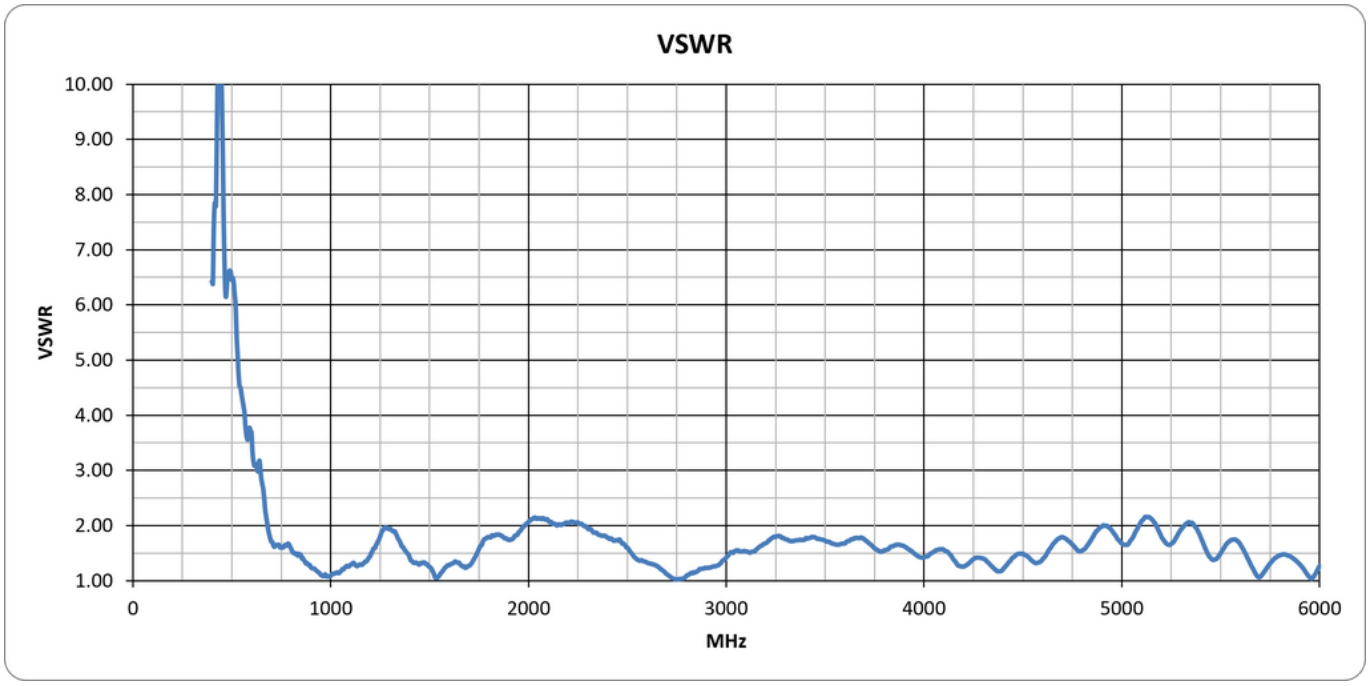
Peak Gain vs. Frequency



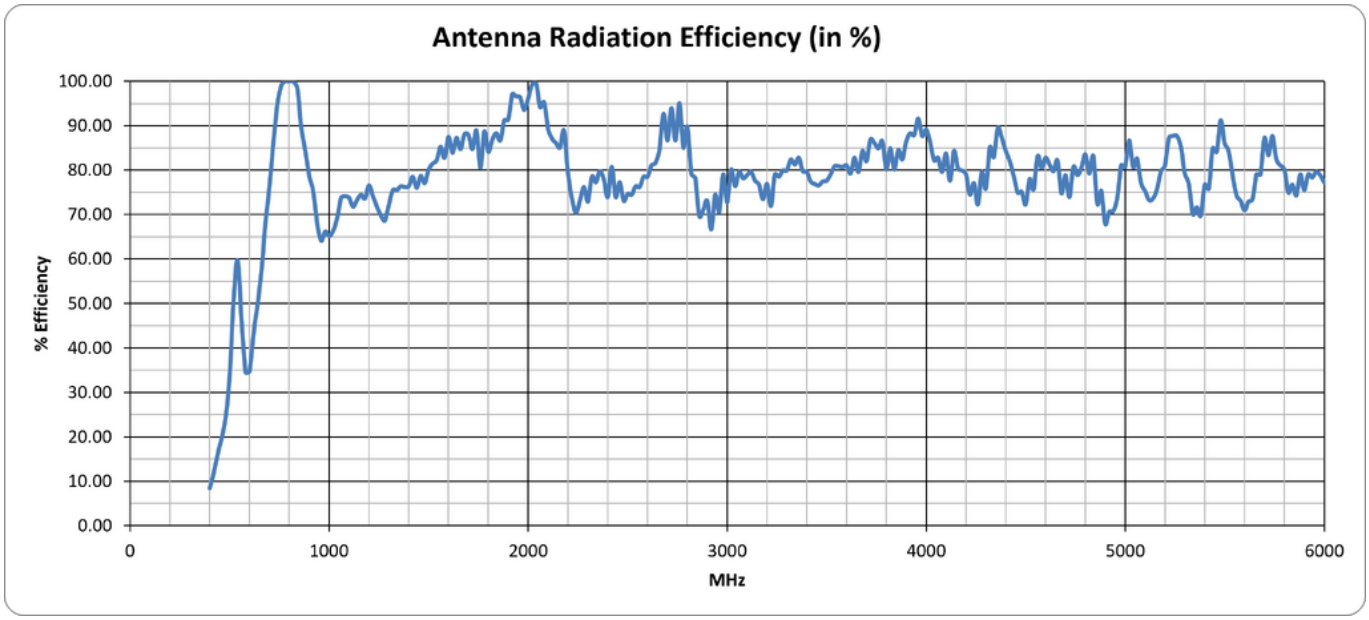
Return Loss



VSWR



Radiation Efficiency



Tango 61

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Cellular Bands*

GSM (2G) Bands	UMTS (3G) Bands	E-UTRA (4G) Bands	NR (5G) Bands	Uplink (MHz)	Downlink (MHz)	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
	1	1	n1	1920 - 1980	2110 - 2170	96.09	86.36	1.99	2.07	↑
PCS-1900	2	2	n2	1850 - 1910	1930 - 1990	90.07	95.64	1.84	2.04	↑
DCS-1800	3	3	n3	1710 - 1785	1805 - 1880	85.59	87.59	1.76	1.84	↑
	4	4		1710 - 1755	2110 - 2155	86.18	86.54	1.62	2.07	↑
GSM-850	5	5	n5	824 - 849	869 - 894	98.09	83.86	1.49	1.36	↑
	6			830 - 840	875 - 885	98.80	84.31	1.49	1.32	↑
	7	7	n7	2500 - 2570	2620 - 2690	75.62	85.39	1.60	1.31	↑
E-GSM-900	8	8	n8	880 - 915	925 - 960	79.74	68.09	1.32	1.19	↑
	9	9		1749.9 - 1784.9	1844.9 - 1879.9	84.56	88.24	1.76	1.84	↑
	10	10		1710 - 1770	2110 - 2170	85.20	86.36	1.71	2.07	↑
	11	11		1427.9 - 1447.9	1475.9 - 1495.9	76.70	78.10	1.33	1.33	↑
	12	12	n12	699 - 716	729 - 746	80.10	93.54	1.72	1.66	↑
	13	13	n13	777 - 787	746 - 756	99.98	97.17	1.68	1.61	↑
	14	14	n14	788 - 798	758 - 768	100.00	99.19	1.67	1.64	↑
		17		704 - 716	734 - 746	81.34	94.52	1.71	1.66	↑
		18	n18	815 - 830	860 - 875	99.73	87.59	1.51	1.41	↑
	19	19		830 - 845	875 - 890	98.29	83.61	1.49	1.32	↑
	20	20	n20	832 - 862	791 - 821	94.92	100.00	1.49	1.65	↑
	21	21		1447.9 - 1462.9	1495.9 - 1510.9	78.03	80.34	1.33	1.26	↑
	22	22		3410 - 3490	3510 - 3590	77.17	80.37	1.80	1.71	↑

GSM (2G) Bands	UMTS (3G) Bands	E-UTRA (4G) Bands	NR (5G) Bands	Uplink (MHz)	Downlink (MHz)	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
		23		2000 - 2020	2180 - 2200	97.74	84.18	2.12	2.06	↑
		24	n24	1626.5 - 1660.5	1525 - 1559	86.05	82.92	1.35	1.14	↑
	25	25	n25	1850 - 1915	1930 - 1995	90.45	95.60	1.84	2.05	↑
	26	26	n26	814 - 849	859 - 894	98.62	85.19	1.51	1.41	↑
		27		807 - 824	852 - 869	99.96	89.75	1.53	1.44	↑
		28	n28	703 - 748	758 - 803	88.27	99.75	1.71	1.68	↑
		28A		703 - 733	758 - 788	85.11	99.62	1.71	1.68	↑
		29	n29	-	717 - 728	-	87.34	-	1.65	↑
		30	n30	2305 - 2315	2350 - 2360	75.73	79.17	1.94	1.85	↑
		31	n31	452.5 - 457.5	462.5 - 467.5	18.91	21.00	9.34	7.05	↓
	32	32		-	1452 - 1496	-	78.10	-	1.34	↑
		33		1900 - 1920	1900 - 1920	94.23	94.23	1.76	1.76	↑
		34	n34	2010 - 2025	2010 - 2025	98.79	98.79	2.13	2.13	↑
		35		1850 - 1910	1850 - 1910	90.07	90.07	1.84	1.84	↑
		36		1930 - 1990	1930 - 1990	95.64	95.64	2.04	2.04	↑
		37		1910 - 1930	1910 - 1930	96.29	96.29	1.81	1.81	↑
		38	n38	2570 - 2620	2570 - 2620	78.92	78.92	1.38	1.38	↑
		39	n39	1880 - 1920	1880 - 1920	92.77	92.77	1.77	1.77	↑
		40	n40	2300 - 2400	2300 - 2400	77.40	77.40	1.95	1.95	↑
		41	n41	2496 - 2690	2496 - 2690	79.97	79.97	1.61	1.61	↑
		42		3400 - 3600	3400 - 3600	78.80	78.80	1.80	1.80	↑
		43		3600 - 3800	3600 - 3800	83.31	83.31	1.78	1.78	↑

GSM (2G) Bands	UMTS (3G) Bands	E-UTRA (4G) Bands	NR (5G) Bands	Uplink (MHz)	Downlink (MHz)	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
		44		703 - 803	703 - 803	94.36	94.36	1.71	1.71	↑
		45		1447 - 1467	1447 - 1467	78.04	78.04	1.33	1.33	↑
		46	n46	5150 - 5925	5150 - 5925	79.46	79.46	2.12	2.12	↑
		47	n47	5855 - 5925	5855 - 5925	77.04	77.04	1.44	1.44	↑
		48	n48	3550 - 3700	3550 - 3700	81.30	81.30	1.78	1.78	↑
		49		3550 - 3700	3550 - 3700	81.30	81.30	1.78	1.78	↑
		50	n50	1432 - 1517	1432 - 1517	78.38	78.38	1.34	1.34	↑
		51	n51	1427 - 1432	1427 - 1432	77.34	77.34	1.33	1.33	↑
		52		3300 - 3400	3300 - 3400	81.22	81.22	1.76	1.76	↑
		53	n53	2483.5 - 2495	2483.5 - 2495	73.82	73.82	1.66	1.66	↑
		54	n54	1670 - 1675	1670 - 1675	86.84	86.84	1.26	1.26	↑
		65	n65	1920 - 2010	2110 - 2200	95.91	86.05	2.10	2.07	↑
		66	n66	1710 - 1780	2110 - 2200	85.41	86.05	1.76	2.07	↑
		67	n67	-	738 - 758	-	96.52	-	1.65	↑
		68		698 - 728	753 - 783	82.76	99.31	1.73	1.67	↑
		69		-	2570 - 2620	-	78.92	-	1.38	↑
		70	n70	1695 - 1710	1995 - 2020	87.38	97.36	1.30	2.12	↑
		71	n71	663 - 698	617 - 652	67.91	48.10	2.55	3.18	□
		72	n72	451 - 456	461 - 466	18.63	20.64	9.65	7.32	↓
		73		450 - 455	460 - 465	18.45	20.41	9.86	7.50	↓
		74	n74	1427 - 1470	1475 - 1518	77.43	79.36	1.34	1.33	↑
		75	n75	-	1432 - 1517	-	78.38	-	1.34	↑
		76	n76	-	1427 - 1432	-	77.34	-	1.33	↑

GSM (2G) Bands	UMTS (3G) Bands	E-UTRA (4G) Bands	NR (5G) Bands	Uplink (MHz)	Downlink (MHz)	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
			n77	3300 - 4200	3300 - 4200	82.38	82.38	1.80	1.80	↑
			n78	3300 - 3800	3300 - 3800	81.08	81.08	1.80	1.80	↑
			n79	4400 - 5000	4400 - 5000	77.83	77.83	2.00	2.00	↑
			n80	1710 - 1785	-	85.59	-	1.76	-	↑
			n81	880 - 915	-	79.74	-	1.32	-	↑
			n82	832 - 862	-	94.92	-	1.49	-	↑
			n83	703 - 748	-	88.27	-	1.71	-	↑
			n84	1920 - 1980	-	96.09	-	1.99	-	↑
		85	n85	698 - 716	728 - 746	79.86	93.34	1.73	1.66	↑
			n86	1710 - 1780	-	85.41	-	1.76	-	↑
		87		410 - 415	420 - 425	10.63	12.47	7.85	8.96	↓
		88		412 - 417	422 - 427	10.98	12.89	7.85	9.51	↓
			n89	824 - 849	-	98.09	-	1.49	-	↑
			n90	2496 - 2690	2496 - 2690	79.97	79.97	1.61	1.61	↑
			n91	832 - 862	1427 - 1432	94.92	77.34	1.49	1.33	↑
			n92	832 - 862	1432 - 1517	94.92	78.38	1.49	1.34	↑
			n93	880 - 915	1427 - 1432	79.74	77.34	1.32	1.33	↑
			n94	880 - 915	1432 - 1517	79.74	78.38	1.32	1.34	↑
			n95	2010 - 2025	-	98.79	-	2.13	-	↑
			n97	2300 - 2400	-	77.40	-	1.95	-	↑
			n98	1880 - 1920	-	92.77	-	1.77	-	↑
			n99	1626.5 - 1660.5	-	86.05	-	1.35	-	↑

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GSM (2G) Bands	UMTS (3G) Bands	E-UTRA (4G) Bands	NR (5G) Bands	Uplink (MHz)	Downlink (MHz)	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
			n100	874.4 - 880	919.4 - 925	85.06	74.38	1.32	1.22	↑
			n101	1900 - 1910	1900 - 1910	92.82	92.82	1.75	1.75	↑
		103		787 - 788	757 - 758	100.00	98.55	1.67	1.60	↑
			n105	663 - 703	612 - 652	69.01	47.20	2.55	3.18	□
		106	n106	896 - 901	935 - 940	79.14	68.96	1.28	1.16	↑
		107		-	612 - 652	-	47.20	-	3.18	□
		108		-	470 - 698	-	46.78	-	6.62	↓
			n109	703 - 733	1432 - 1517	85.11	78.38	1.71	1.34	↑
			n110	1390 - 1395	1432 - 1435	76.32	76.84	1.49	1.33	↑

↑ Suitable band □ Adequate band in good signal conditions ↓ Likely to be unsuitable

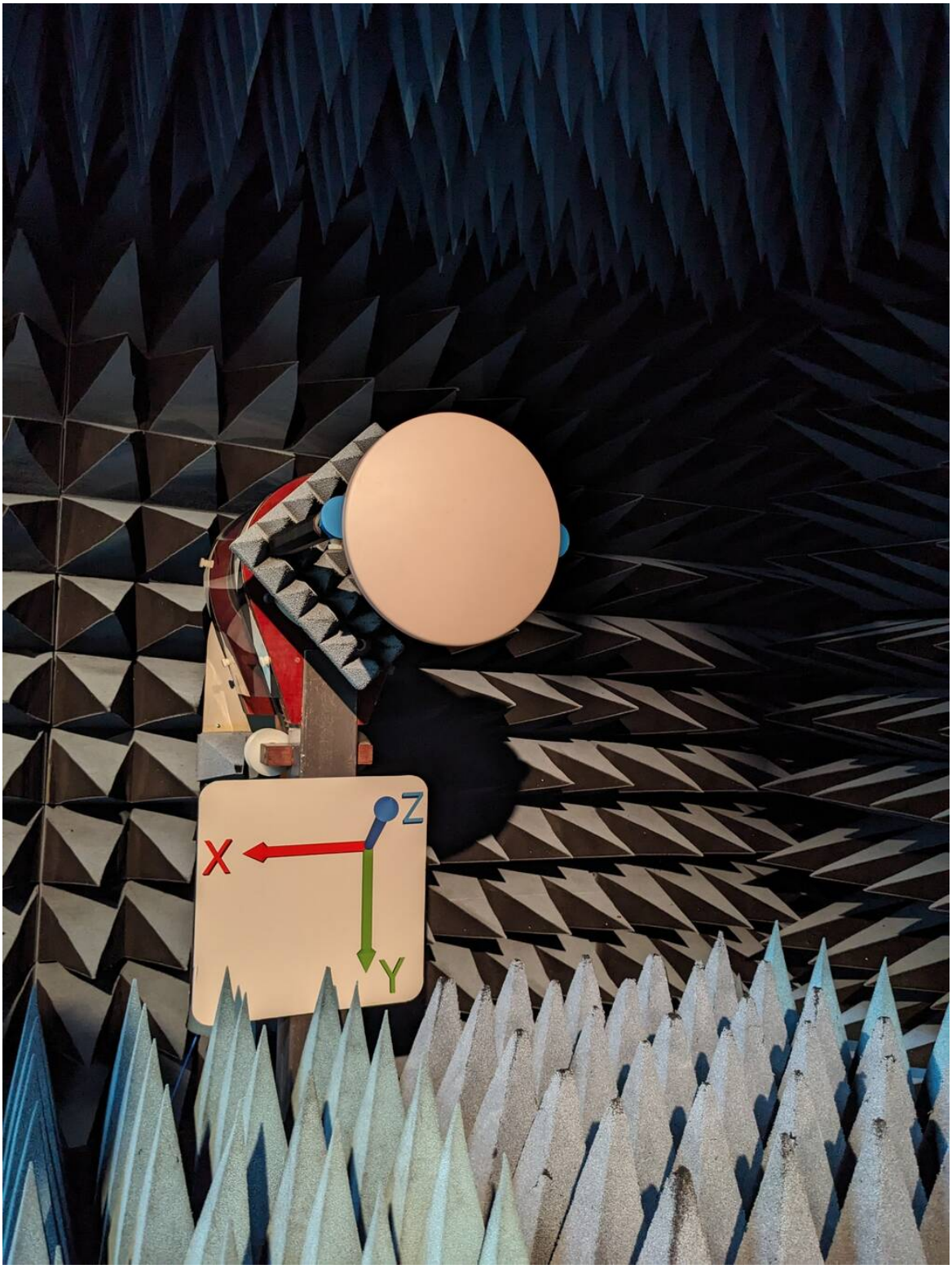
ISM Standards Frequency Support*

Application	Frequency Range (MHz)	Average Efficiency (%)	Maximum VSWR	Peak Gain from highest direction (dBi)	Use Indicator
ISM 433 MHz	433.05 - 434.79	14.89	10.88	1.94	↓
ISM 868 MHz	863 - 870	87.85	1.39	4.51	↑
ISM 915 MHz	902 - 928	75.83	1.24	5.05	↑
ISM 2.4 GHz	2400 - 2500	75.87	1.78	2.96	↑
WiFi 2.4G channels 1-11	2401 - 2473	76.65	1.78	2.95	↑
WiFi 2.4G channels 1-13	2401 - 2483	76.28	1.78	2.95	↑
WiFi 2.4G channels 1-14	2401 - 2495	75.97	1.78	2.95	↑
Citizens Broadband Radio Service	3550 - 3700	81.30	1.78	3.77	↑
WiFi CBRS channels 131-138	3655 - 3695	82.29	1.78	3.77	↑
WiFi 5G (Ch 32-48)	5150 - 5250	82.26	2.12	3.90	↑
WiFi 5G (Ch 32-68)	5150 - 5350	81.08	2.12	4.31	↑
WiFi 5G (Ch 32-165)	5150 - 5835	79.81	2.12	5.38	↑
WiFi 5G (Ch 32-173)	5150 - 5875	79.59	2.12	5.38	↑
WiFi 5G (Ch 32-177)	5150 - 5895	79.54	2.12	5.38	↑
WiFi 5.9G (Ch 172-180)	5855 - 5905	76.64	1.44	3.92	↑
WiFi 5.9G (Ch 182-196)	5905 - 5990	78.70	1.28	3.86	↑
ISM 5.8 GHz	5725 - 5875	79.74	1.48	5.12	↑
UWB band group 1, BAND_ID 1	3168 - 3696	79.28	1.81	5.24	↑

Application	Frequency Range (MHz)	Average Efficiency (%)	Maximum VSWR	Peak Gain from highest direction (dBi)	Use Indicator
UWB band group 1, BAND_ID 2	3696 - 4224	83.84	1.76	3.56	↑
UWB band group 1, BAND_ID 3	4224 - 4752	79.51	1.79	3.54	↑
UWB band group 2, BAND_ID 4	4752 - 5280	78.85	2.16	4.31	↑
UWB band group 2, BAND_ID 5	5280 - 5808	79.13	2.06	5.38	↑

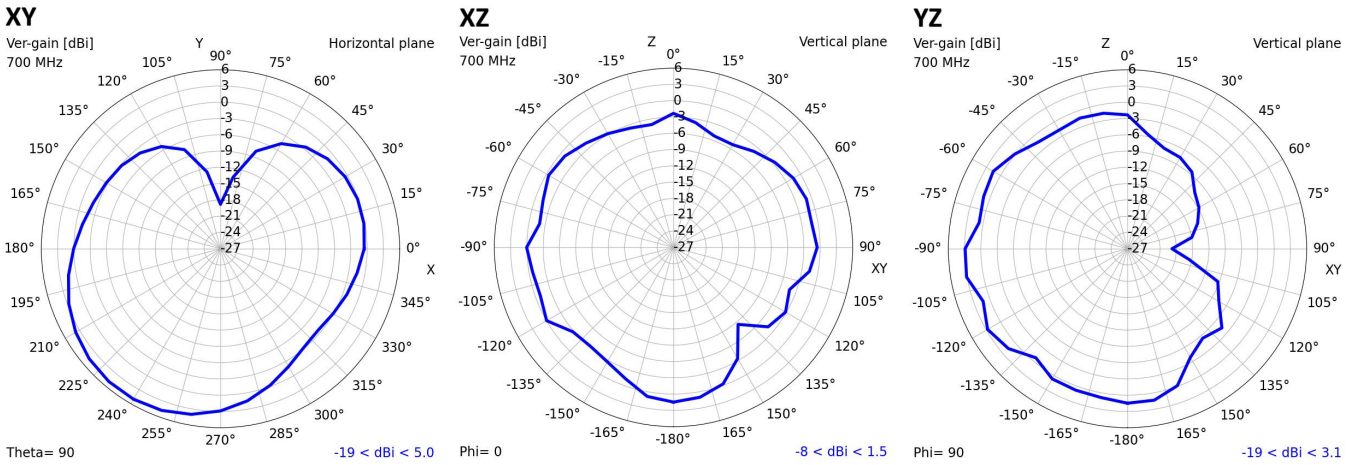
↑ Suitable band □ Adequate band in good signal conditions ↓ Likely to be unsuitable

Test Setup (in Free Space)

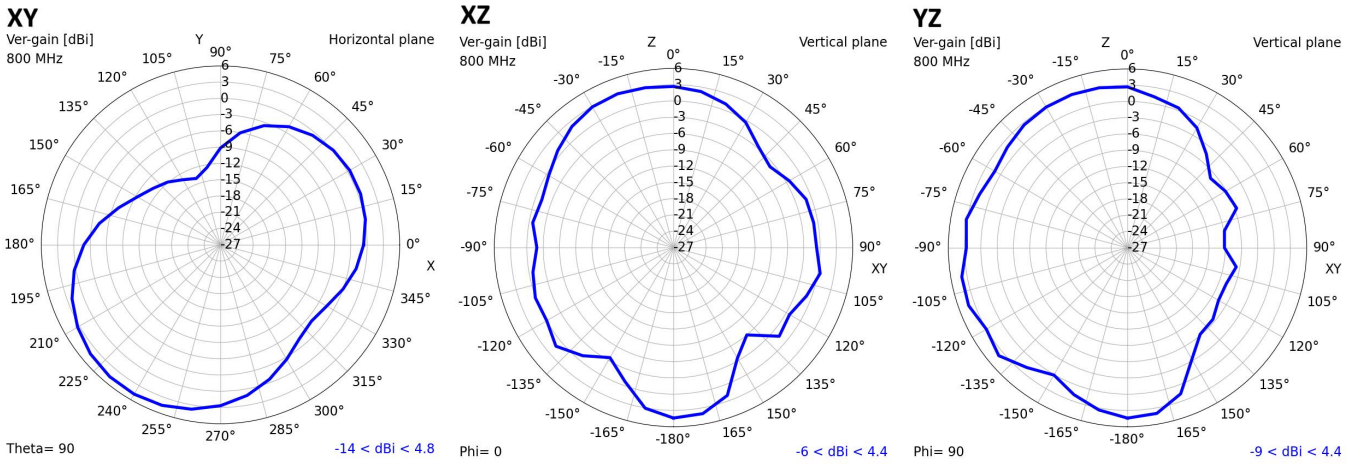


2D Radiation Plots

700 MHz

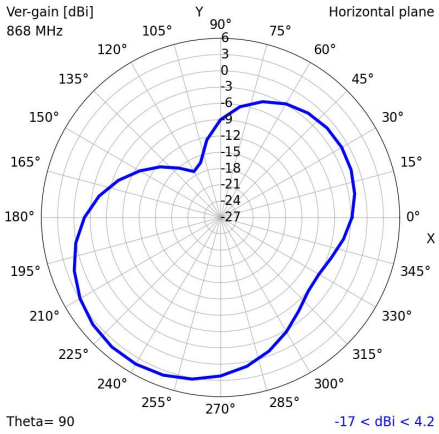


800 MHz

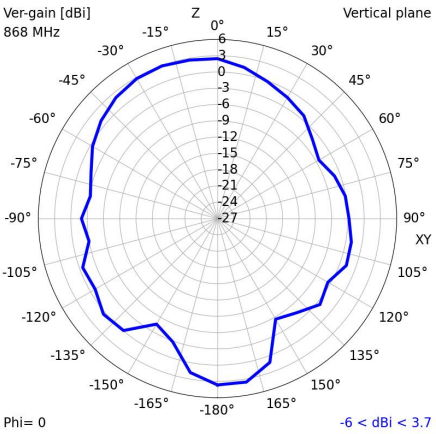


868 MHz

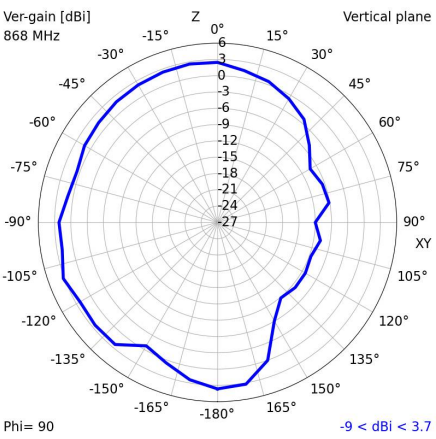
XY



XZ

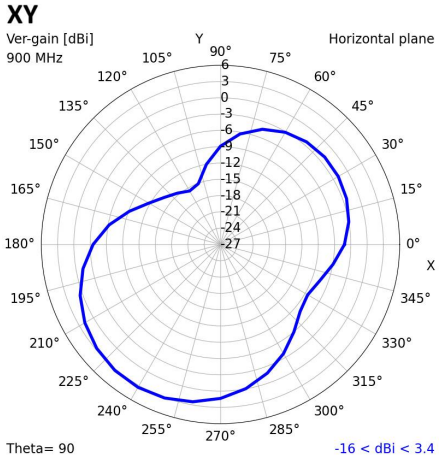


YZ

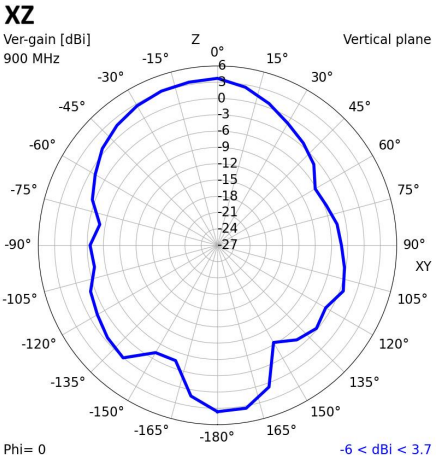


900 MHz

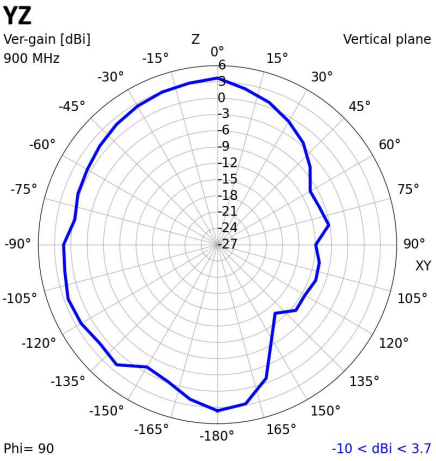
XY



XZ

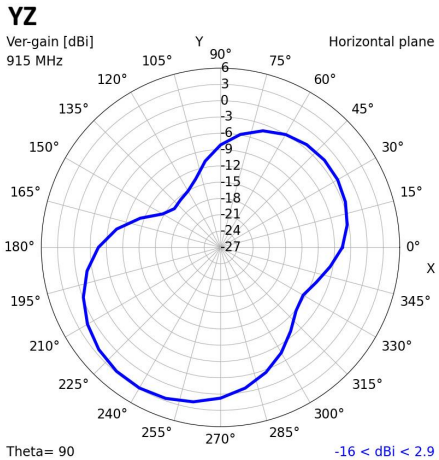


YZ

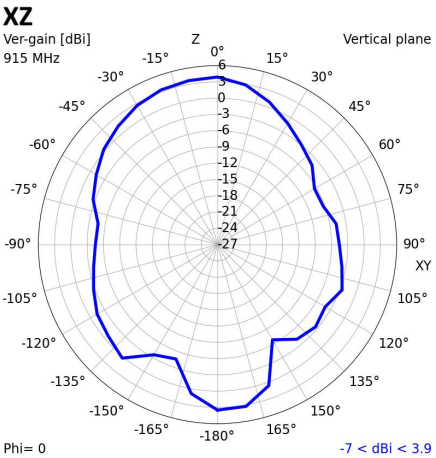


915 MHz

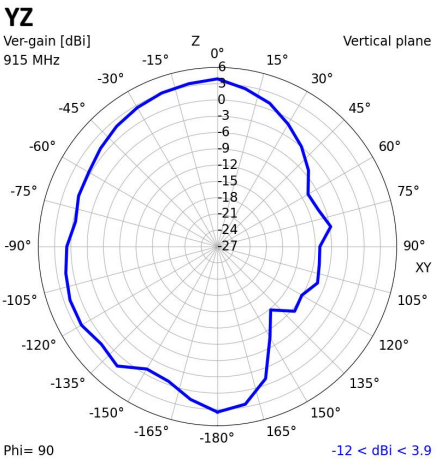
YZ



XZ



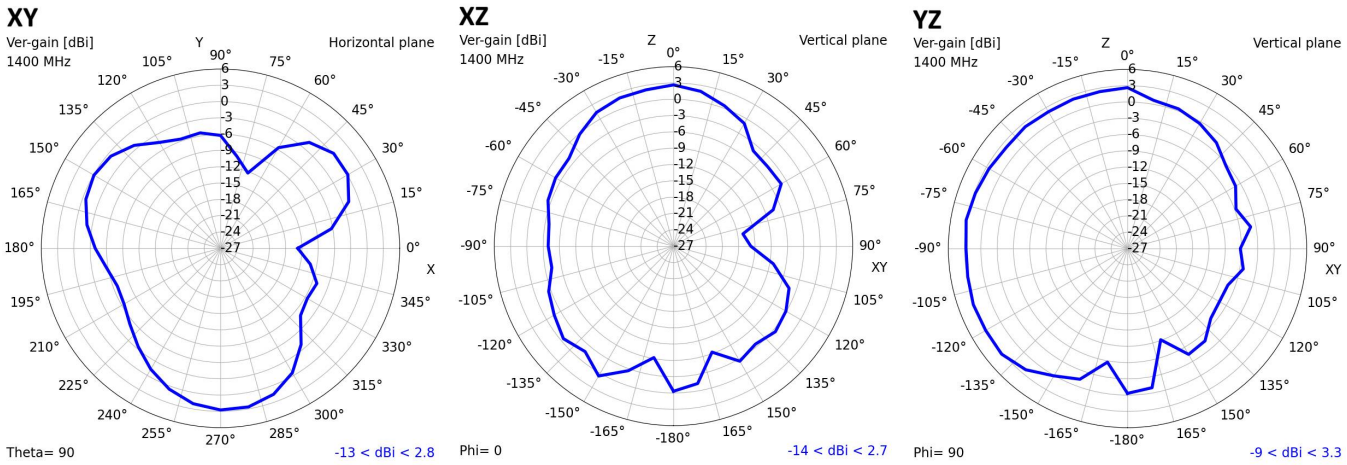
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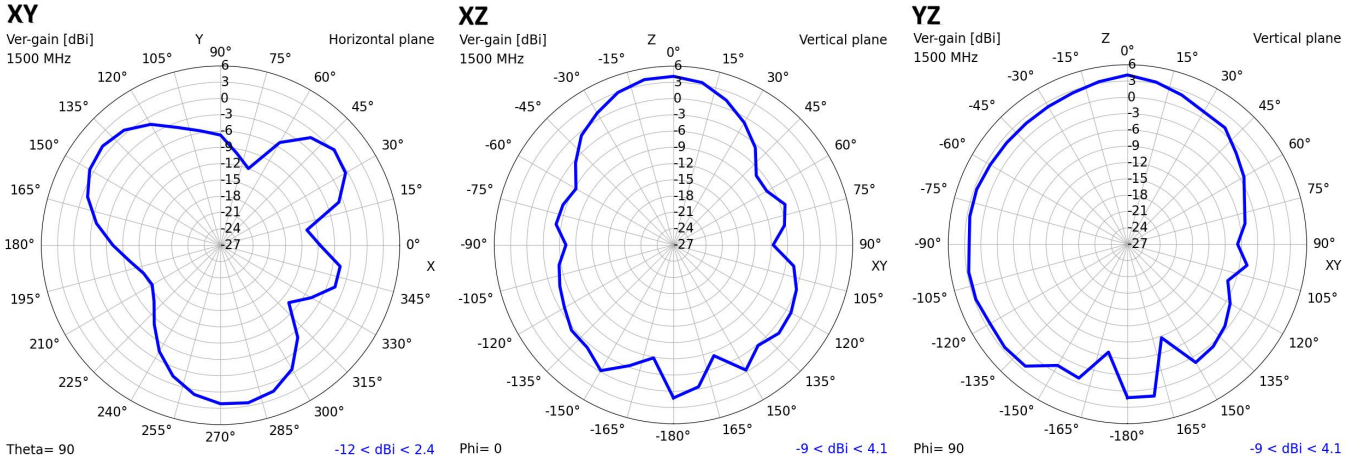
Tango 61

2x2 MIMO Omnidirectional Ceiling Mount 4G/5G DAS Antenna

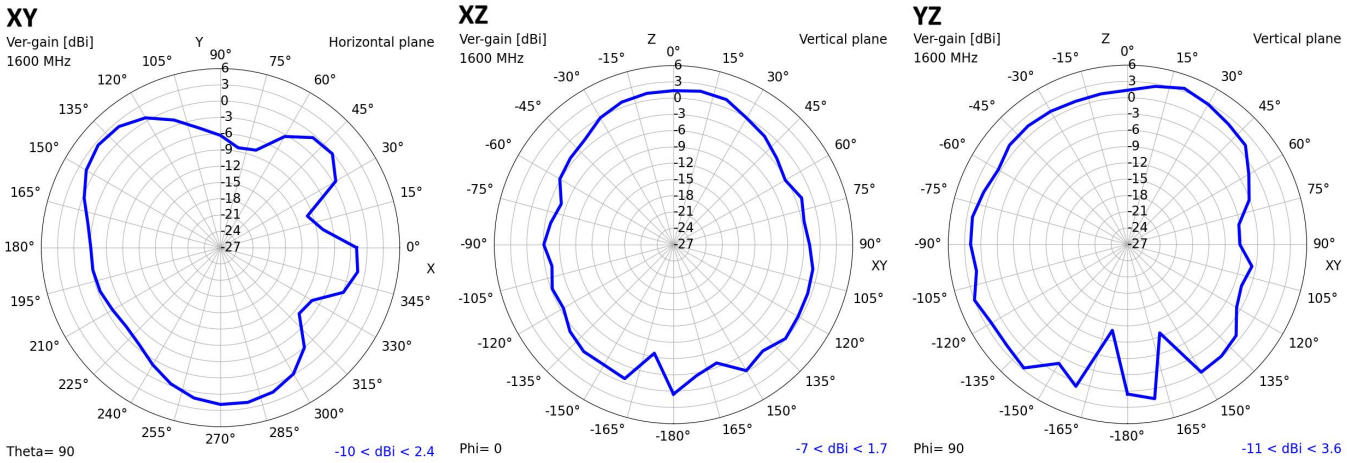
1400 MHz



1500 MHz



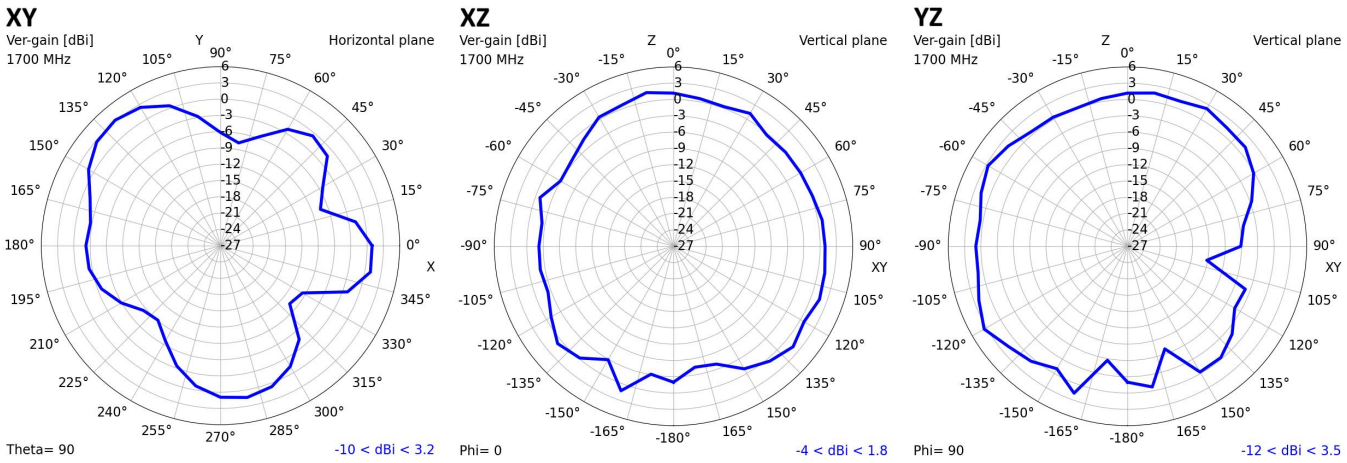
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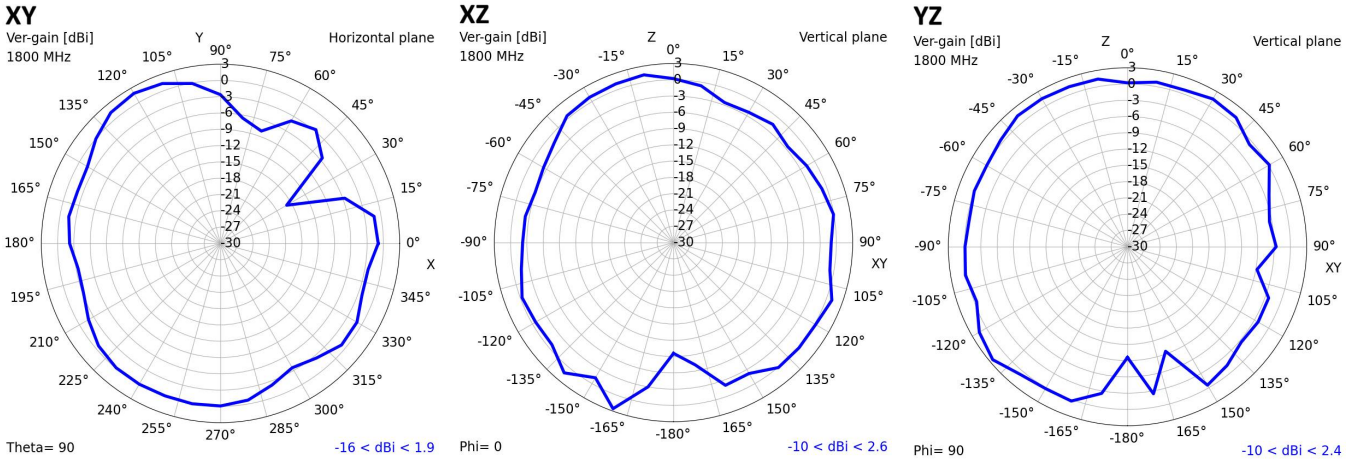
Tango 61

2x2 MIMO Omnidirectional Ceiling Mount 4G/5G DAS Antenna

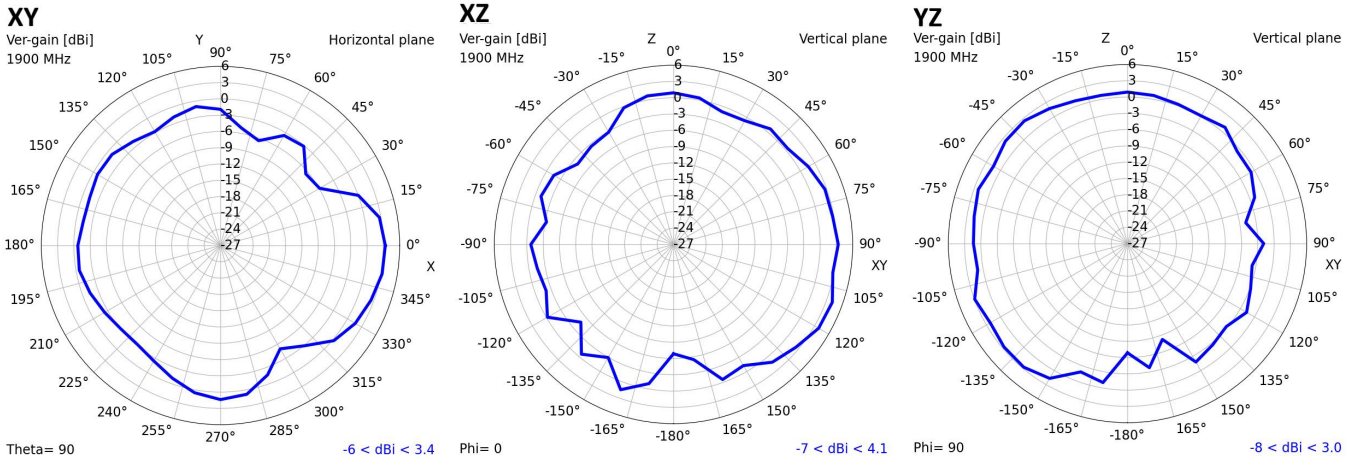
1700 MHz



1800 MHz

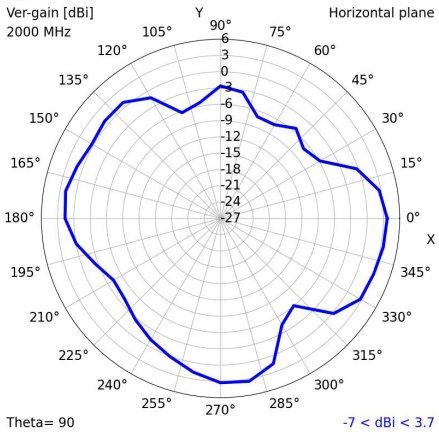


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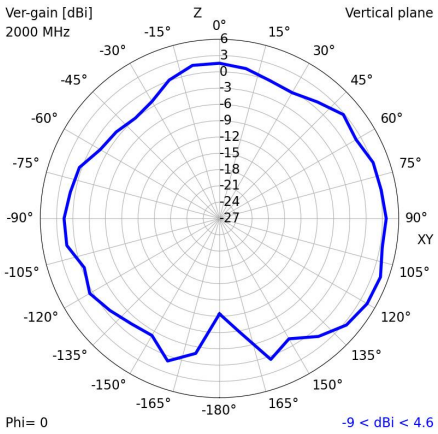


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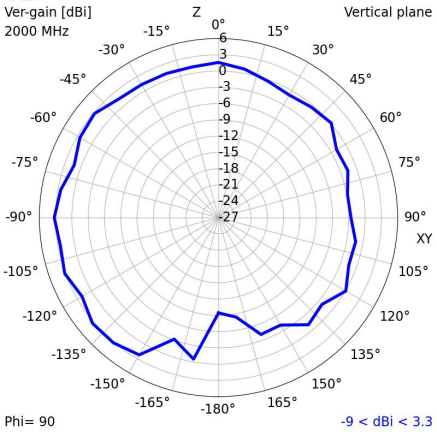
XY



XZ

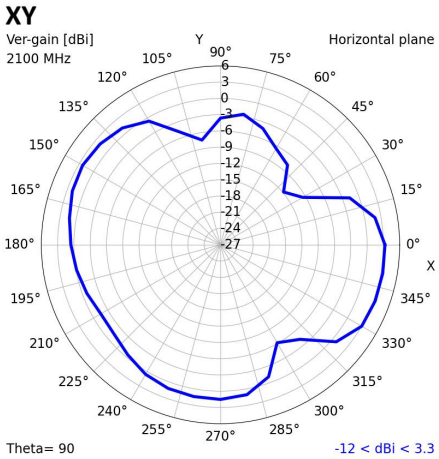


YZ

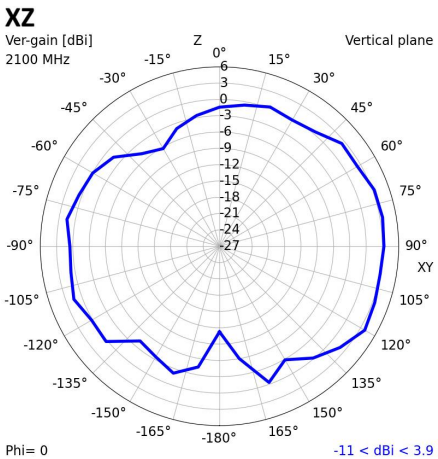


2100 MHz

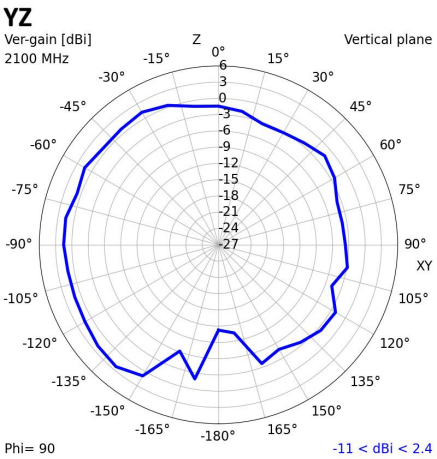
XY



XZ

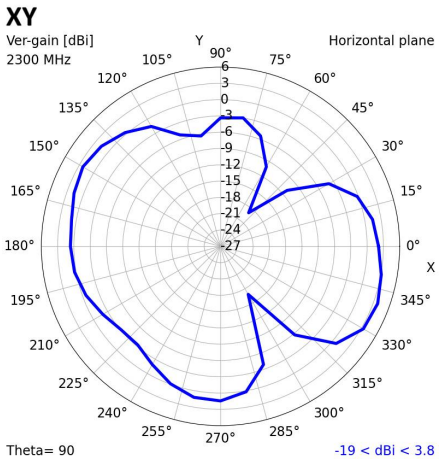


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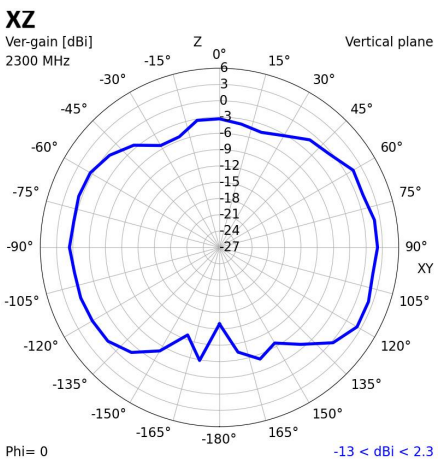


2300 MHz

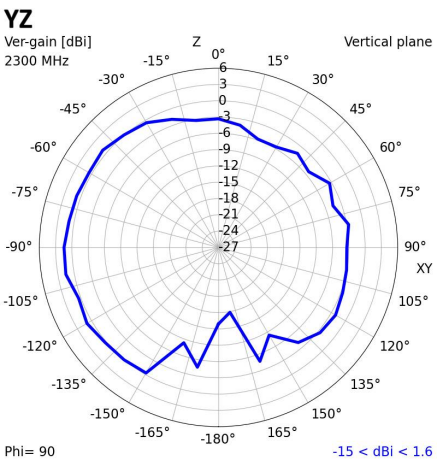
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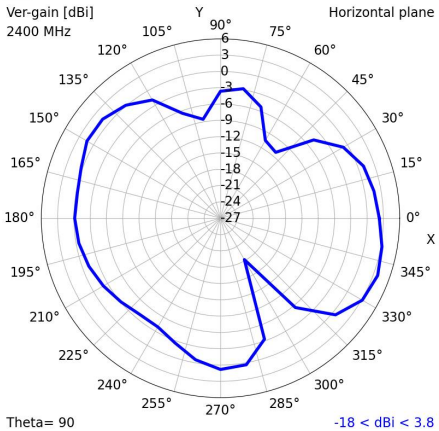


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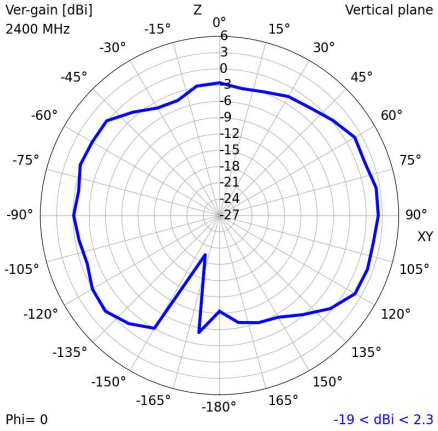


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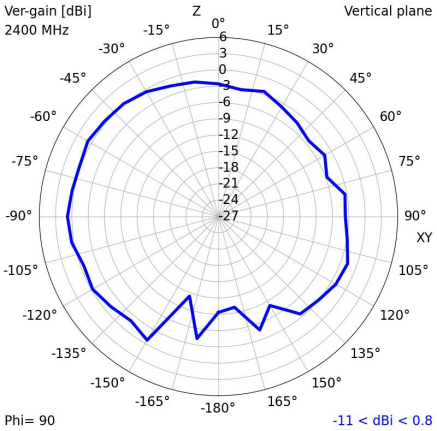
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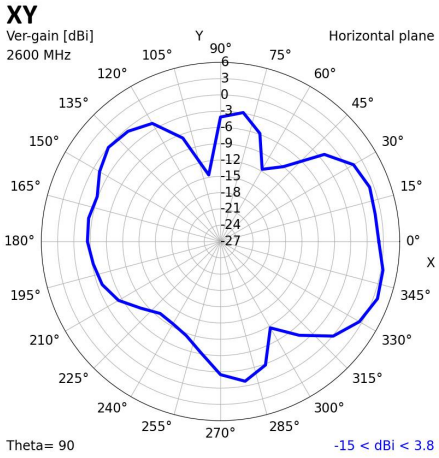


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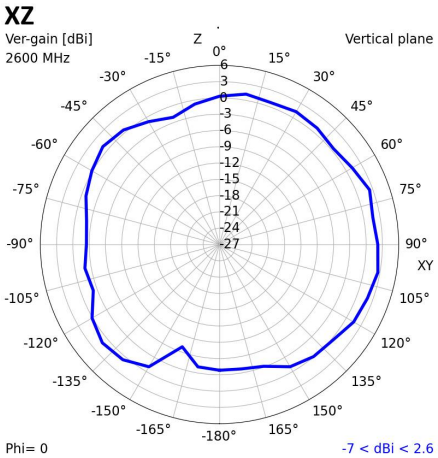


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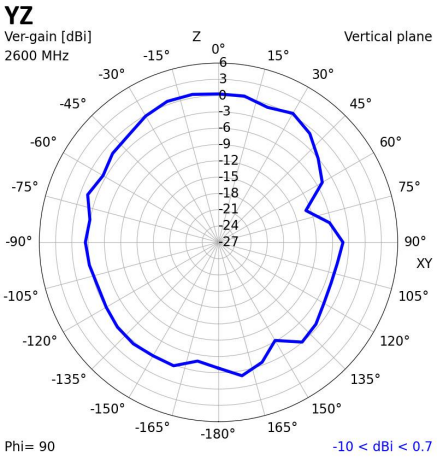
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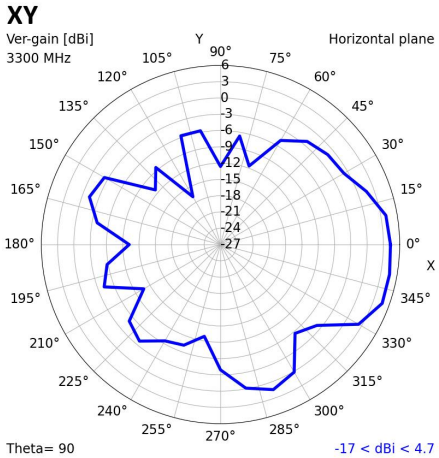


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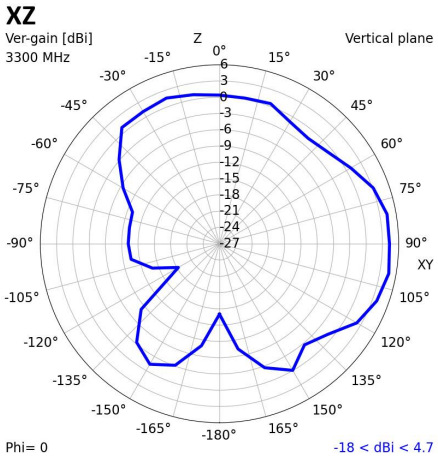


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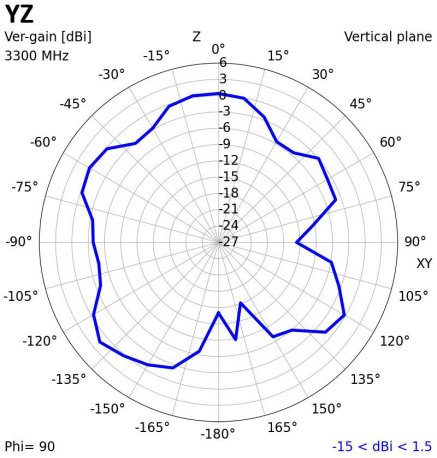
XY



XZ



YZ



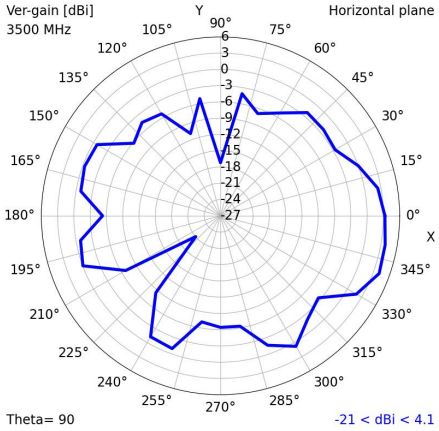
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Enabling Industrial IoT

Tango 61

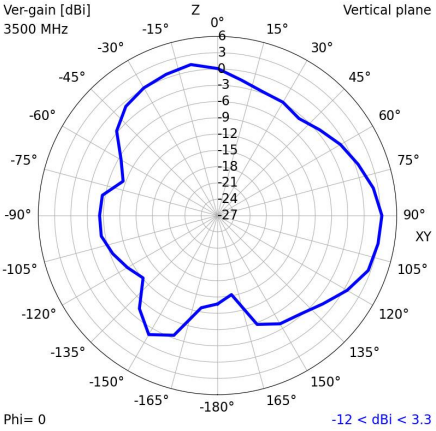
2x2 MIMO Omnidirectional Ceiling Mount 4G/5G DAS Antenna

3500 MHz

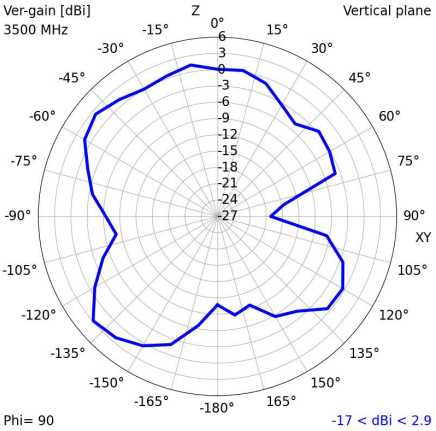
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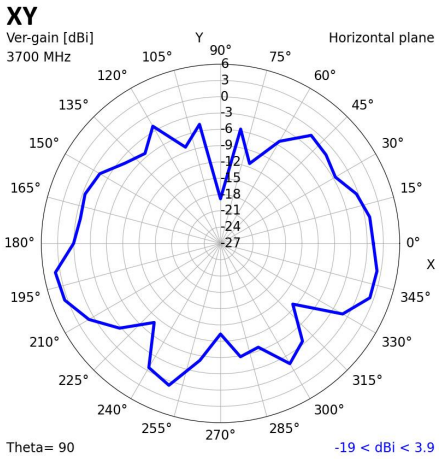


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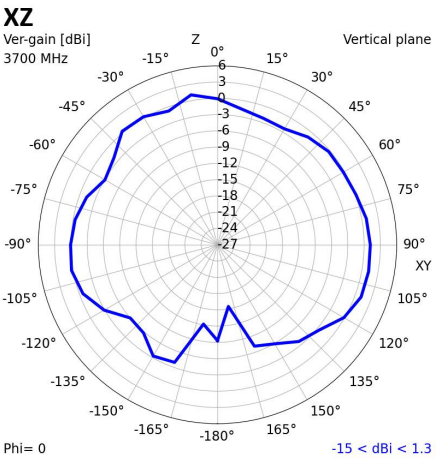


3700 MHz

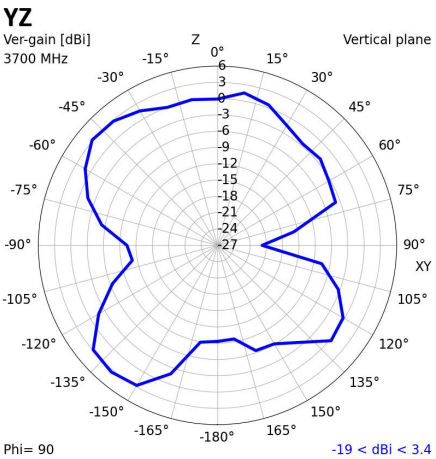
XY



XZ

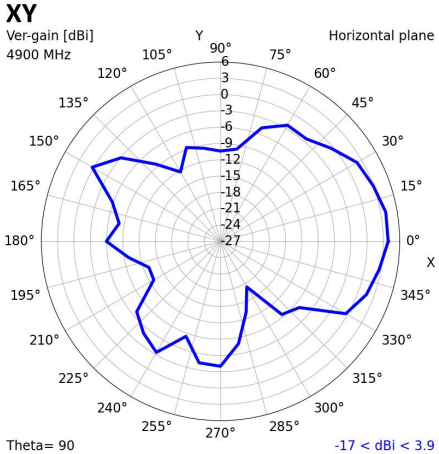


YZ

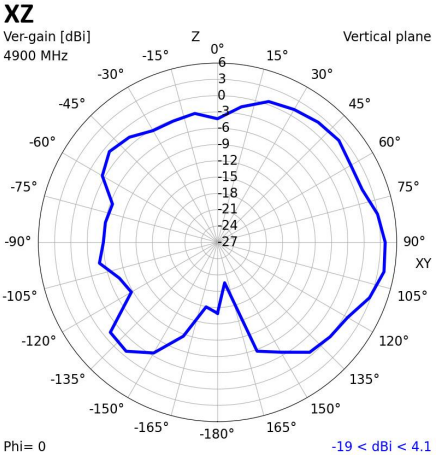


4900 MHz

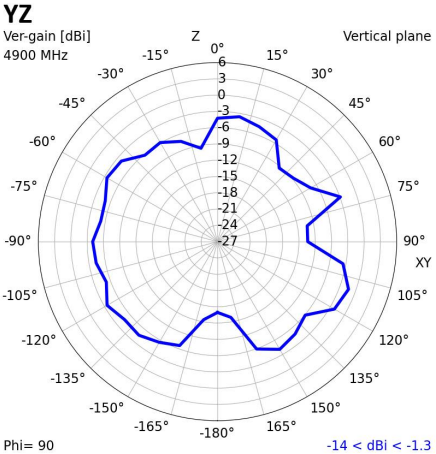
XY



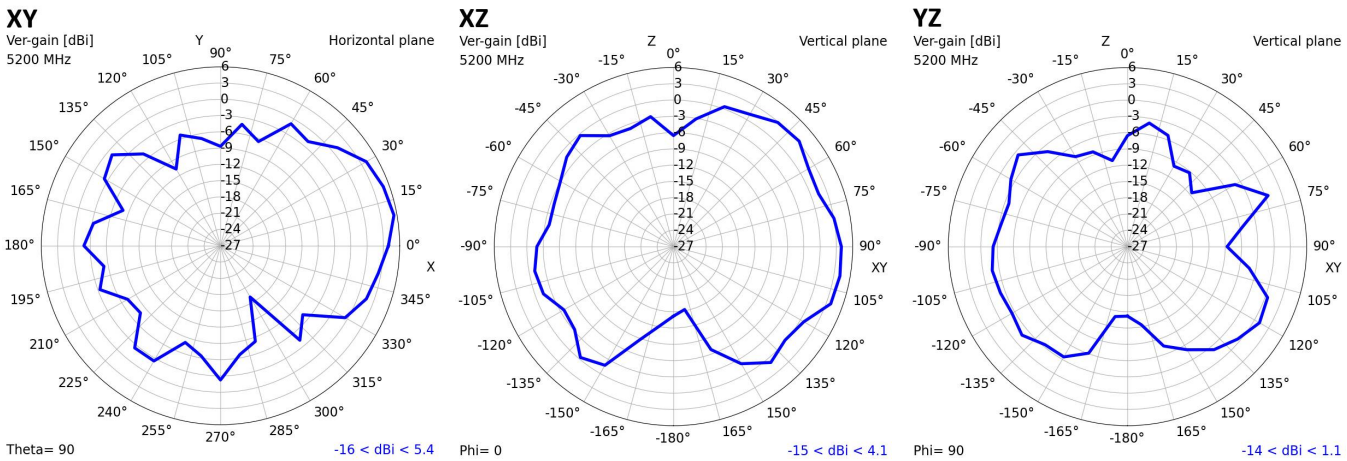
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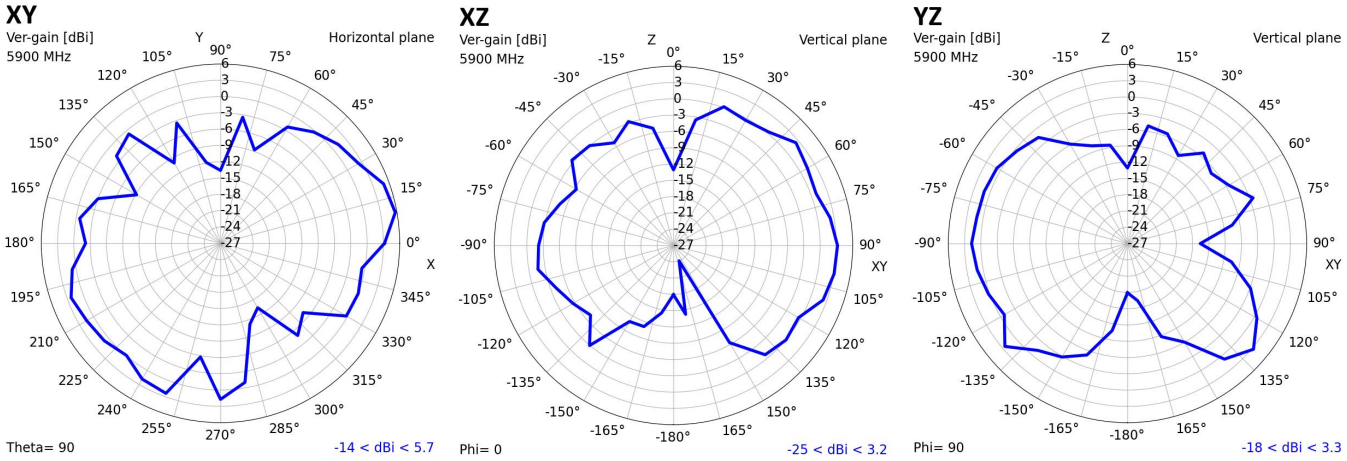
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5200 MHz

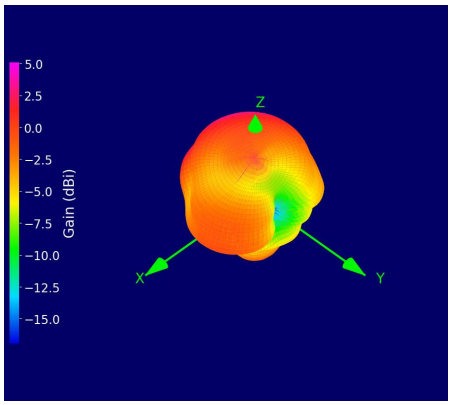


5900 MHz

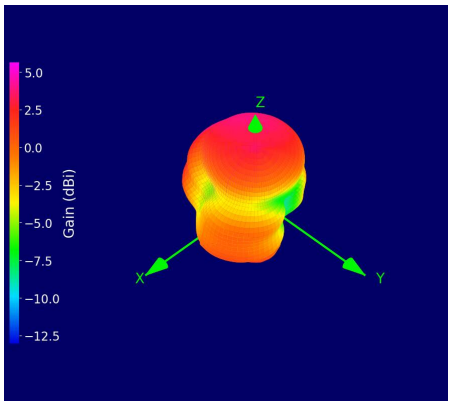


3D Radiation Plots

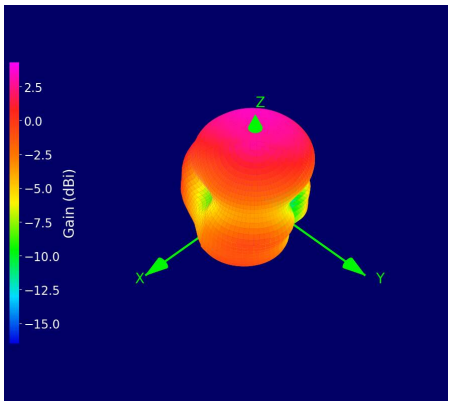
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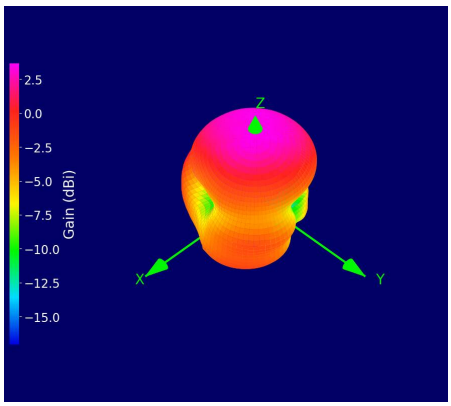
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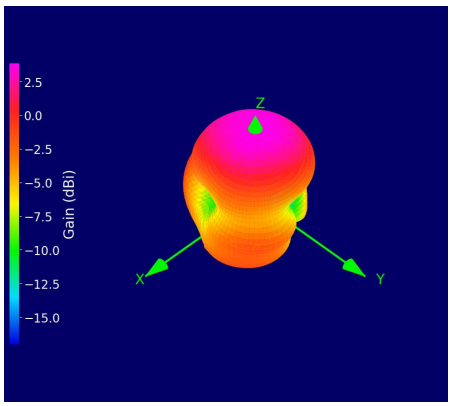
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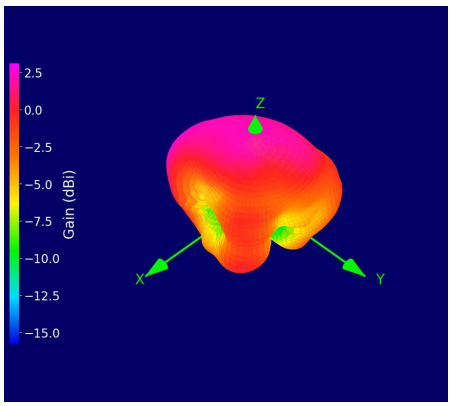
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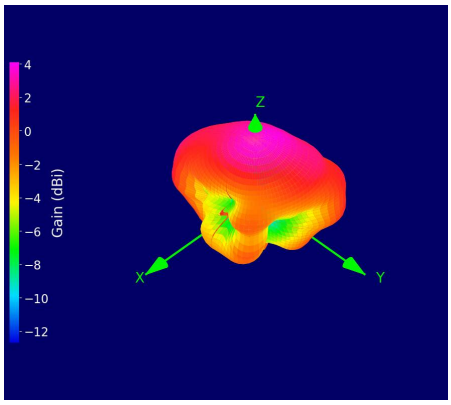
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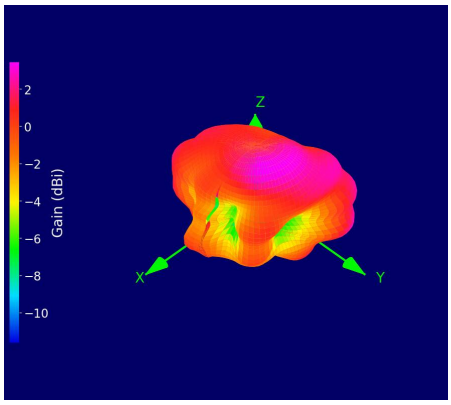
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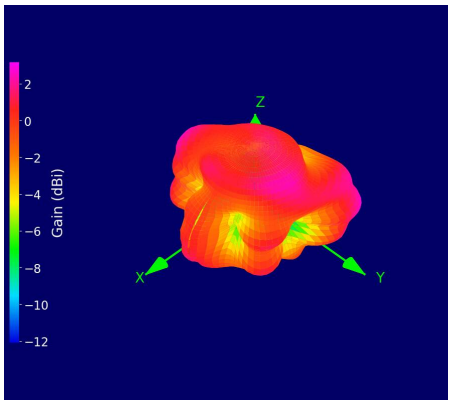
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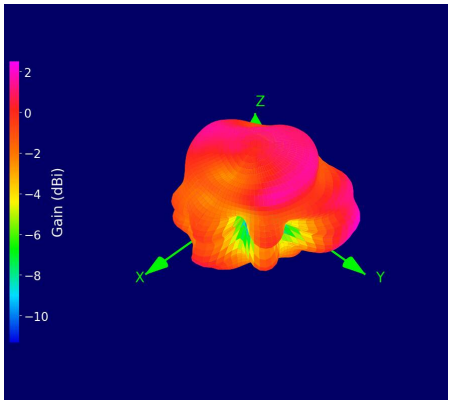
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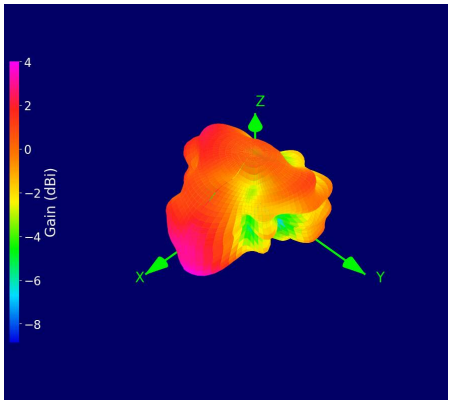
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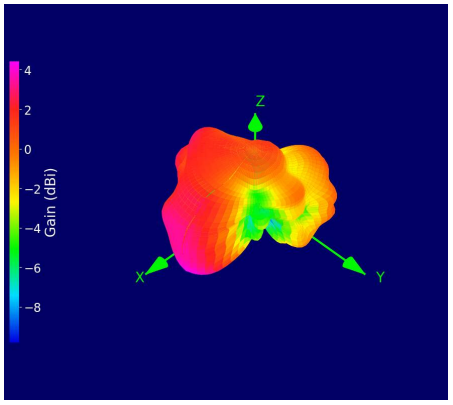
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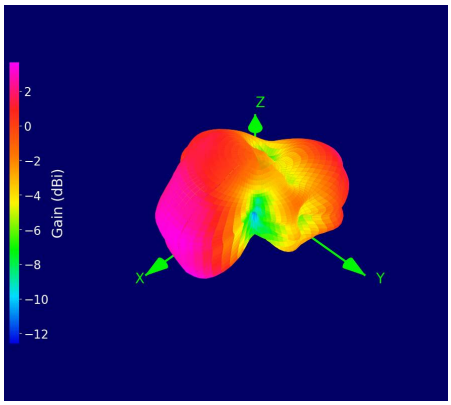
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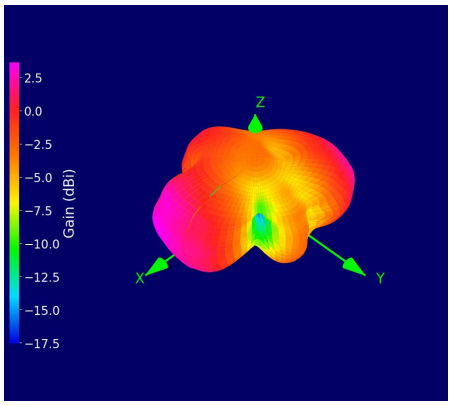
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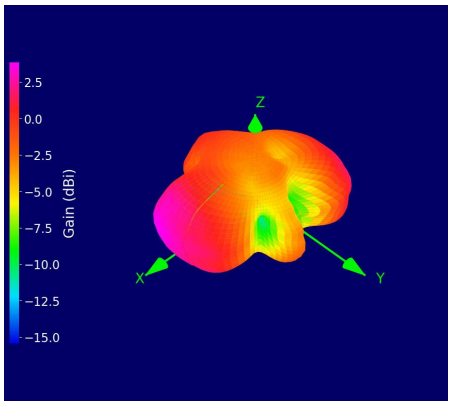
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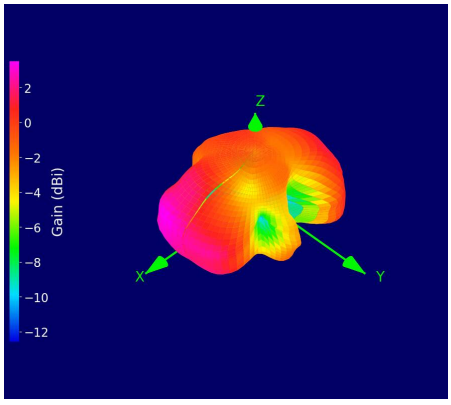
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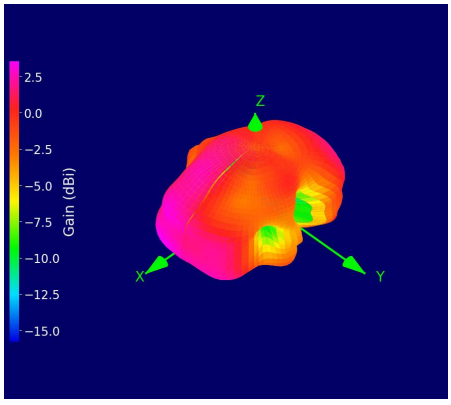
2400 MHz



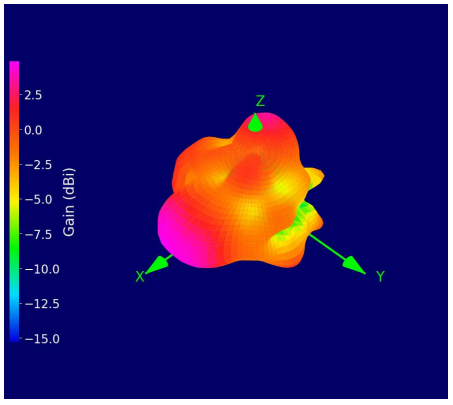
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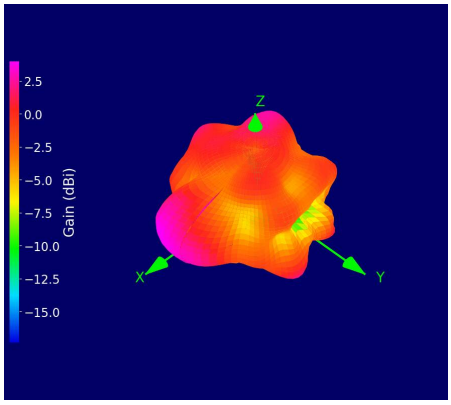
2600 MHz



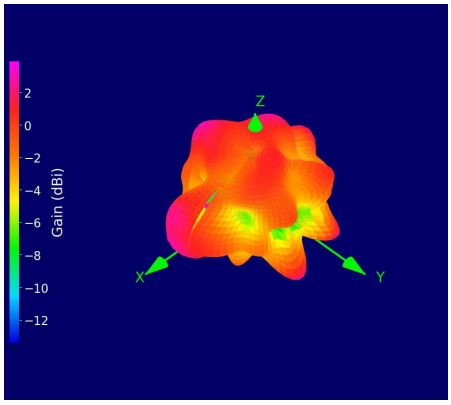
3300 MHz



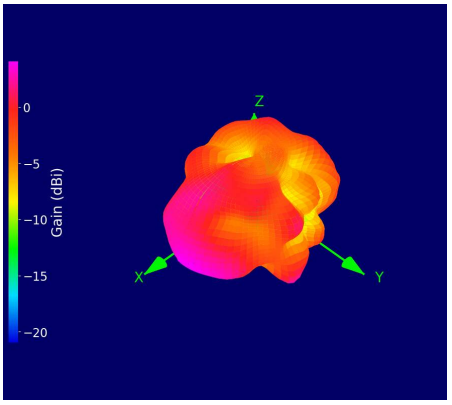
3500 MHz



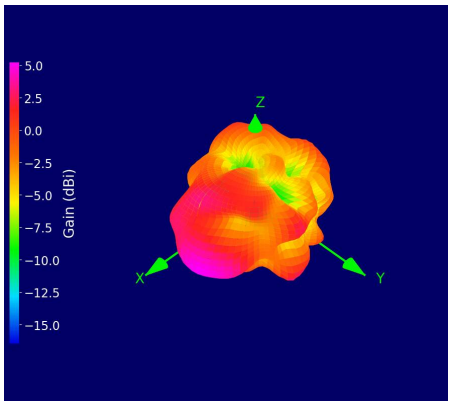
3700 MHz



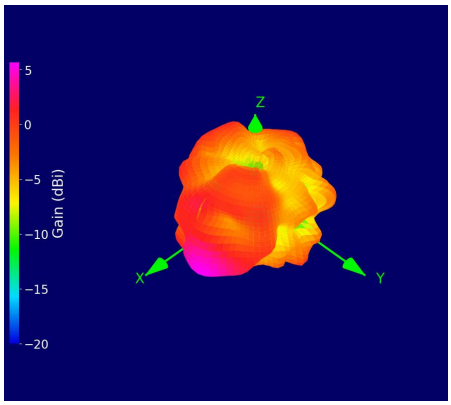
4900 MHz



5200 MHz



5900 MHz



Ordering Details

Part Number	Description
TANGO61/X/NTYPE-F/S/S/32	2x2 MIMO Omnidirectional Ceiling Mount 4G/5G DAS Antenna N-Type Female Connector

A 4.3-10 (4310) Female connector option is also available for this antenna. Please contact sales@siretta.com for details.

About Siretta

Founded in 1998 and headquartered in Reading, United Kingdom, Siretta is a leading wireless communications company specialising in the design, manufacture, and supply of industrial IoT solutions.

Siretta's product portfolio includes:

- Antennas, plus their associated Cable Assemblies & Adapters
- Cellular Network Analysers
- Industrial Modems
- Industrial Routers
- Associated Cloud Management

Siretta supplies products directly and via a worldwide network of distributors, into numerous markets and applications across the globe.
Siretta’s distribution partners range from industrial IoT specialists through to global catalogue organisations.

Whether “off the shelf” or custom solutions are required, Siretta has a wide portfolio of products to fit many types of application.

Siretta’s extensive knowledge and experience in the wireless market allows support of a wide range of customer applications, focusing on frequencies between 400 MHz to 6 GHz. These encompass modems, routers and antennas for:

- Cellular technologies: GSM / UMTS / LTE / 5G NR (SA & NSA)
- LPWAN technologies: LTE-M / NB-IoT
- Global positioning technologies: GNSS (GPS / GLONASS / Galileo / BeiDou / QZSS / NavIC)
- Short range technologies: Wireless LAN / Bluetooth / Zigbee / ISM band / LoRa / Sigfox
- Satellite technologies: NTN NB-IoT

With a heavy emphasis on design, Siretta has a team of dedicated Engineers and Product Managers, who specialise in wireless applications.
Siretta continually makes significant investment in R&D endeavouring to provide customers with market leading, future-proofed, wireless solutions. Siretta works closely with many technology partners to stay at the forefront of industrial IOT.

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accordance with applicable regulatory, safety, and local compliance requirements within the country of use.

Performance characteristics, coverage, gain, and network operation may vary depending on installation environment, device configuration, network conditions, cable losses, mounting position, and surrounding structures. Any application deployed using Siretta antenna products should be fully evaluated and tested within the intended operating environment prior to deployment.

Siretta Ltd reserves the right to make modifications, additions, and deletions to this document due to typographical errors, inaccurate information, or improvements to the product at any time and without notice. Such changes will be incorporated into new editions of this document.

Please refer to the Siretta wiki for the latest version of this document.

***IMPORTANT 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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