

Tango 59

600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna



General Description

The Tango 59 is a low-profile, ceiling-mounted antenna designed for in-building wireless systems that demand high performance and broad compatibility.

Covering frequencies from 600 MHz to 8000 MHz, it supports 5G, LTE, Wi-Fi 6E, Wi-Fi 7, and ISM technologies, making it ideal for enterprise DAS installations and industrial IoT environments. Its omnidirectional radiation pattern ensures even signal distribution throughout indoor spaces, while the internal design minimises passive intermodulation, helping to maintain cleaner signals in multi-operator and high-density deployments.

The low-profile housing blends discreetly into commercial and industrial interiors, while the plenum-rated cable allows installation in ceiling voids to meet building safety regulations.

The antenna is also compatible with LoRa and other ISM-based LPWAN protocols commonly used in smart building and sensor networks.

Key Features

- Designed for indoor Distributed Antenna Systems (DAS)
- Supports 5G NR, 4G LTE, and Wi-Fi 6E / Wi-Fi 7 technologies
- Operates across a wide 600 MHz to 8000 MHz frequency range
- Low passive intermodulation (PIM) for cleaner multi-operator signals
- Omnidirectional radiation pattern for consistent indoor coverage
- Plenum-rated cable, low-profile housing for ceiling tile integration

Additional Considerations

- Ground plane independent for flexible mounting in ceiling voids
- Flame-retardant radome compliant with UL94V-0 standards
- Compatible with LoRa and other ISM-based LPWAN systems

Typical Applications

- Enterprise office DAS for multi-network cellular coverage
- Wireless network extension in shopping centres and public venues
- Indoor connectivity backbone in logistics and warehouse environments
- Smart building deployments with ceiling-based antenna distribution

T Through	5G New Radio	4G LTE	3G UMTS	2G GSM	LTE M
LTE NB-IoT	NR NB-IoT	IEEE 802.15.4	ISM 868	ISM 915	ISM 2.4G
ISM 5.8G	WiFi 4 802.11n	Wi-Fi 5 / 6 / 7	WiFi 6e 802.11ax	WLAN 2400	WLAN 5800
BLE Bluetooth	ZB Zigbee	LoRa Wireless	SF Sigfox	HNT Helium	UWB Ultra-Wideband



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Electrical Specifications

Frequency range:	600 – 8000 MHz
Impedance:	50 Ω
Polarisation:	Vertical, Linear
Average gain:	4.95 dBi
Peak gain:	6.82 dBi
Average spherically integrated total gain:	-1.01 dBi
Average efficiency:	77.7%
VSWR:	≤ 2.1
Input power	50 W
Directionality:	Omni-directional
Ground plane independent:	Yes

Environmental Specifications

Operating temperature range:	-45°C to +75°C
Storage temperature range:	-50°C to +75°C

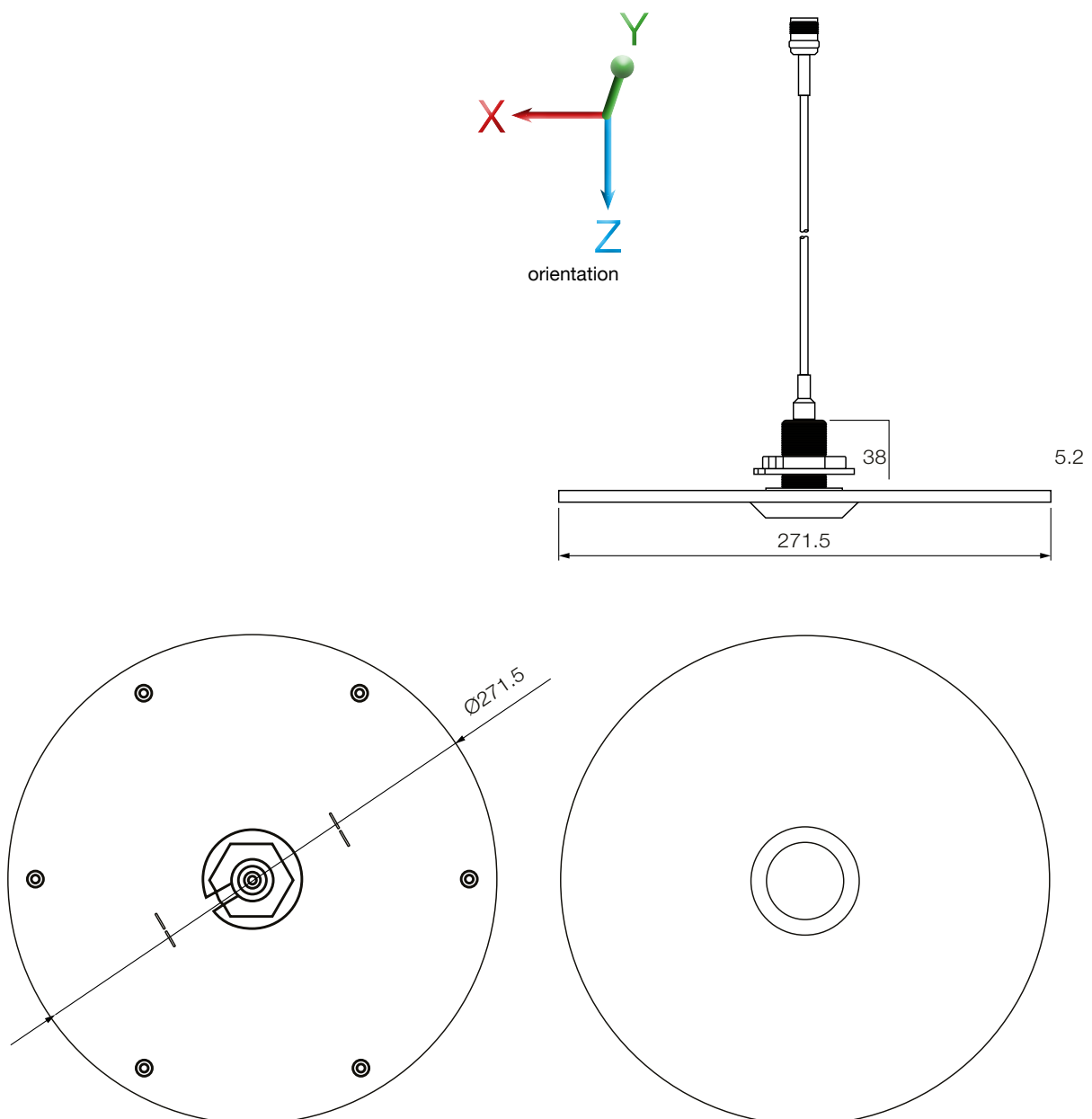
Mechanical Specifications

Colour options:	White
Connector options:	N-Type Female
Mounting method:	Ceiling
Dimensions:	271 $\varnothing$ x 11 mm
Weight:	0.45 kg
Radome:	ABS

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Dimensional Drawing

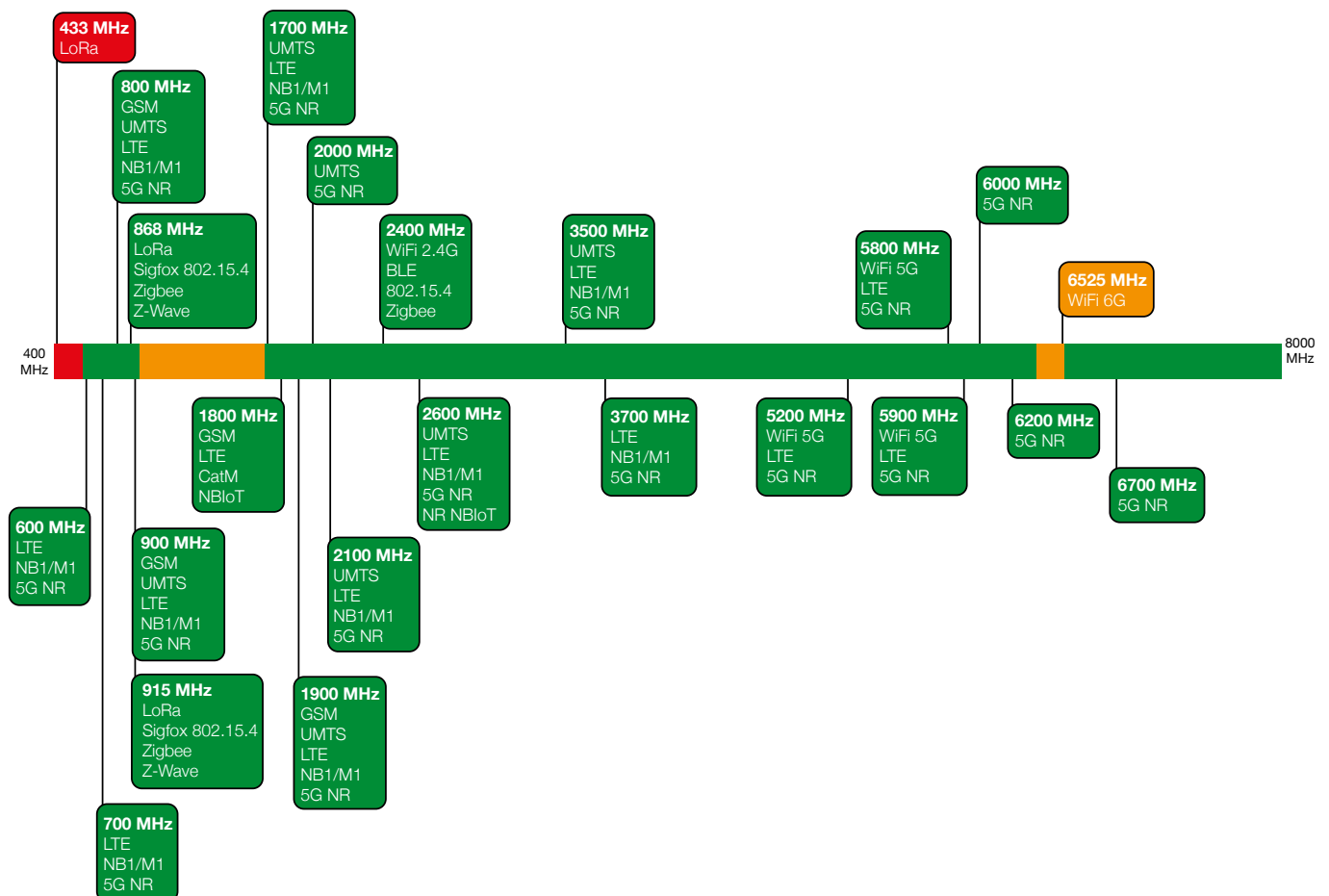




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Spectrum Coverage



● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



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Usable Cellular Frequency Support (400 MHz – 2000 MHz)

	410	450	500	600	700	800	850	900	1500	1600	1700	1800	1900	2000
GSM (2G) Bands							●					●	●	
UMTS (3G) Bands					●	●	●				●	●	●	
E-UTRA (4G) Bands				●	●	●	●		●	●	●	●	●	●
E-UTRA (4G) Cat M1 & M2 Bands				●	●	●	●			●	●	●	●	
E-UTRA (4G) Cat NB1 & NB2 Bands				●	●	●	●			●	●	●	●	●
E-UTRA (4G) NTN Bands														
LTE based 5G Terrestrial Broadcast Bands				●										
NR (5G) FR1 Bands				●	●	●	●	●	●	●	●	●	●	●
NR (5G) FR2 Bands						●	●	●						
NR (5G) Cat NB1 & NB2 Bands				●	●	●	●	●		●		●	●	●
NR (5G) NTN FR1 Bands						●	●	●		●				
NR (5G) NTN FR2 Bands														

Usable Cellular Frequency Support (2100 MHz – 6700 MHz)

	2100	2300	2400	2500	2600	3300	3500	3700	4900	5200	5900	6000	6200	6700
GSM (2G) Bands														
UMTS (3G) Bands	●				●		●							
E-UTRA (4G) Bands	●	●	●	●	●	●	●	●		●	●			
E-UTRA (4G) Cat M1 & M2 Bands	●	●		●	●		●	●						
E-UTRA (4G) Cat NB1 & NB2 Bands	●			●	●		●	●						
E-UTRA (4G) NTN Bands	●		●											
LTE based 5G Terrestrial Broadcast Bands														
NR (5G) FR1 Bands	●	●	●	●	●		●	●	●	●	●	●	●	●
NR (5G) FR2 Bands														
NR (5G) Cat NB1 & NB2 Bands	●			●	●									
NR (5G) NTN FR1 Bands	●													
NR (5G) NTN FR2 Bands														



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Usable ISM Frequency Support (433 MHz - 6525 MHz)

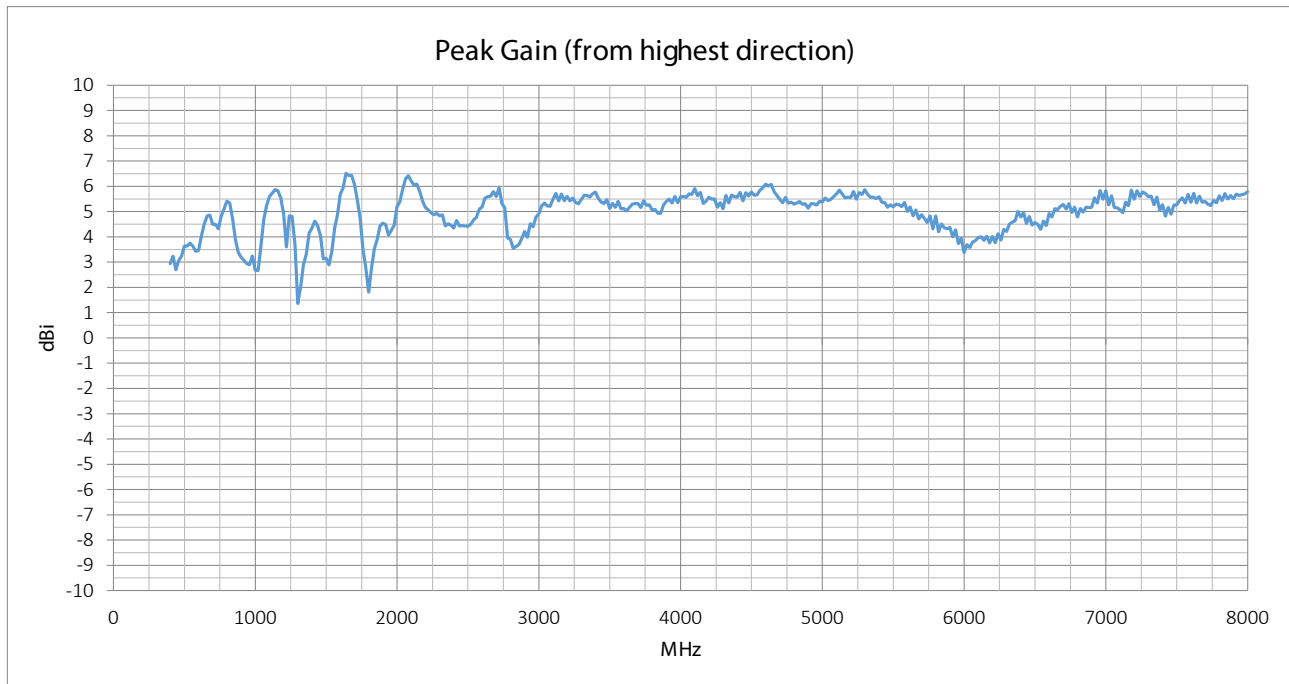
	433	868	915	2450	3625	5800	6525
Bluetooth				●			
Helium		●	●				
IEEE 802.15.4		●	●	●			
ISM 433							
ISM 868		●					
ISM 915			●				
ISM 2.4G				●			
ISM 5.8G		●	●	●		●	
LoRa		●	●	●			
SigFox		●	●	●			
Weightless				●			
Citizens Band Radio Service				●	●		
Wi-Fi CBRS				●	●		
Wi-Fi 2.4G				●			
Wi-Fi 5G				●		●	
Wi-Fi 6E				●			●
Zigbee		●	●	●			
Z-Wave		●	●				



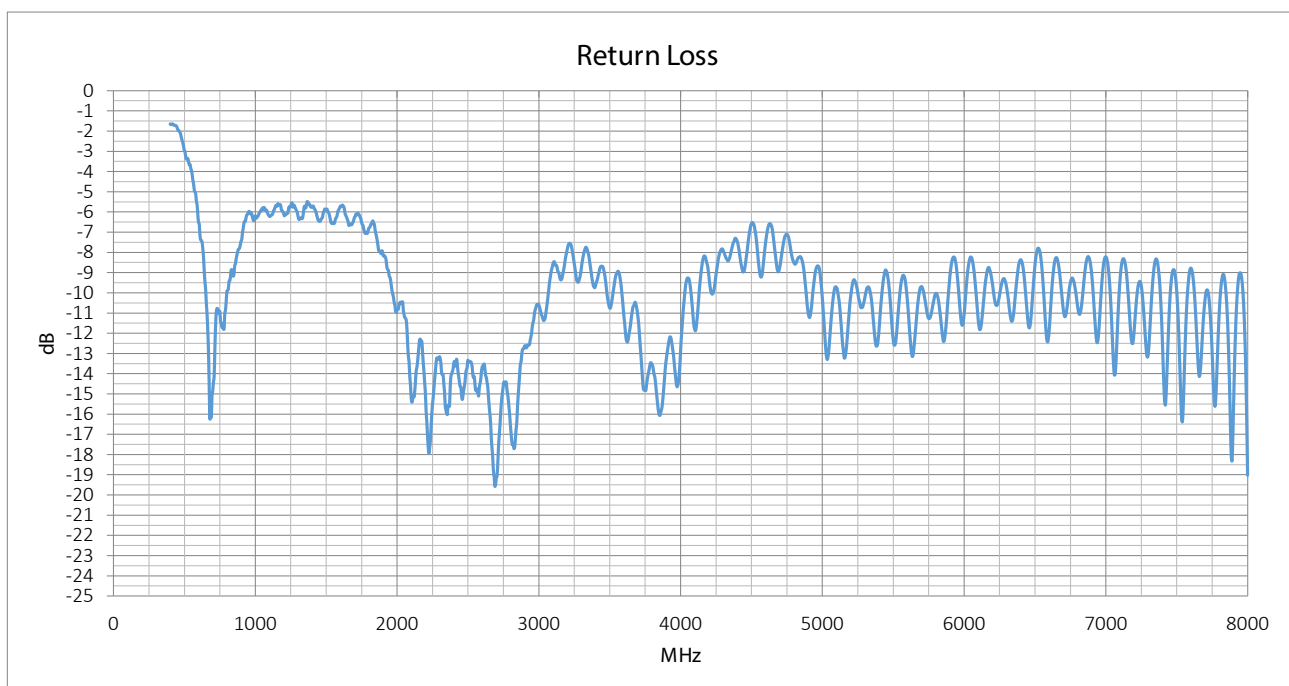
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Peak Gain



Return Loss

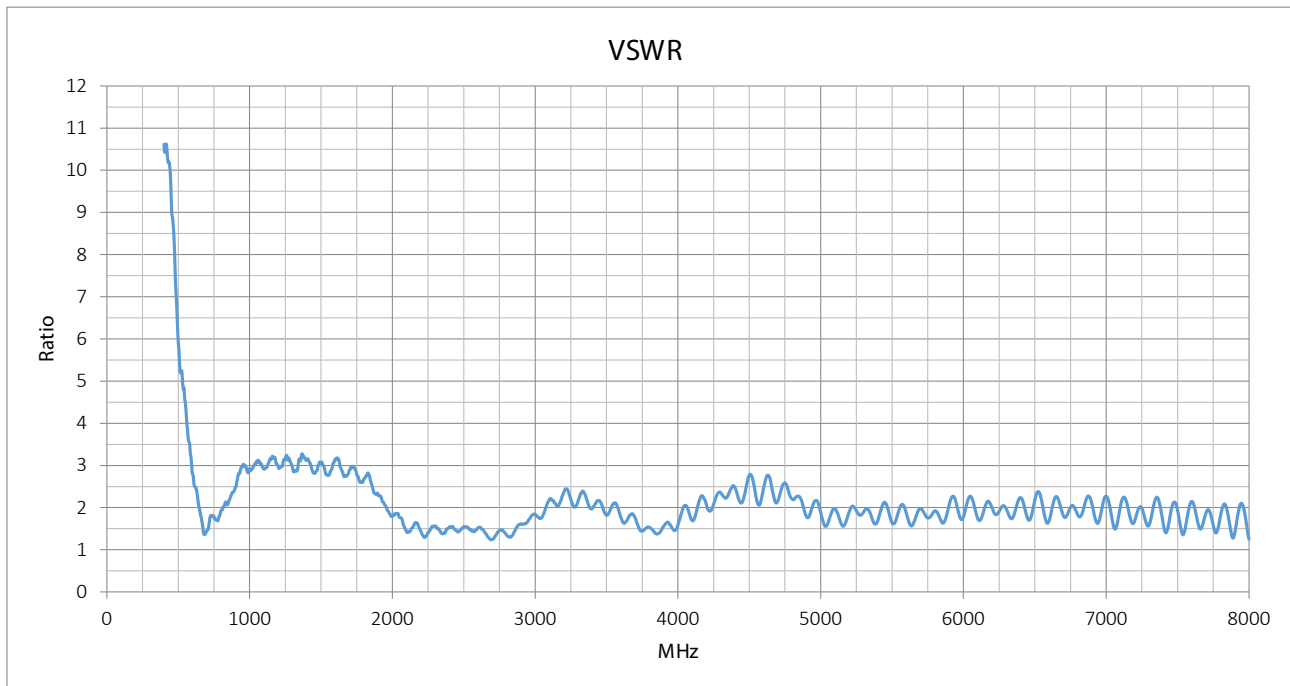




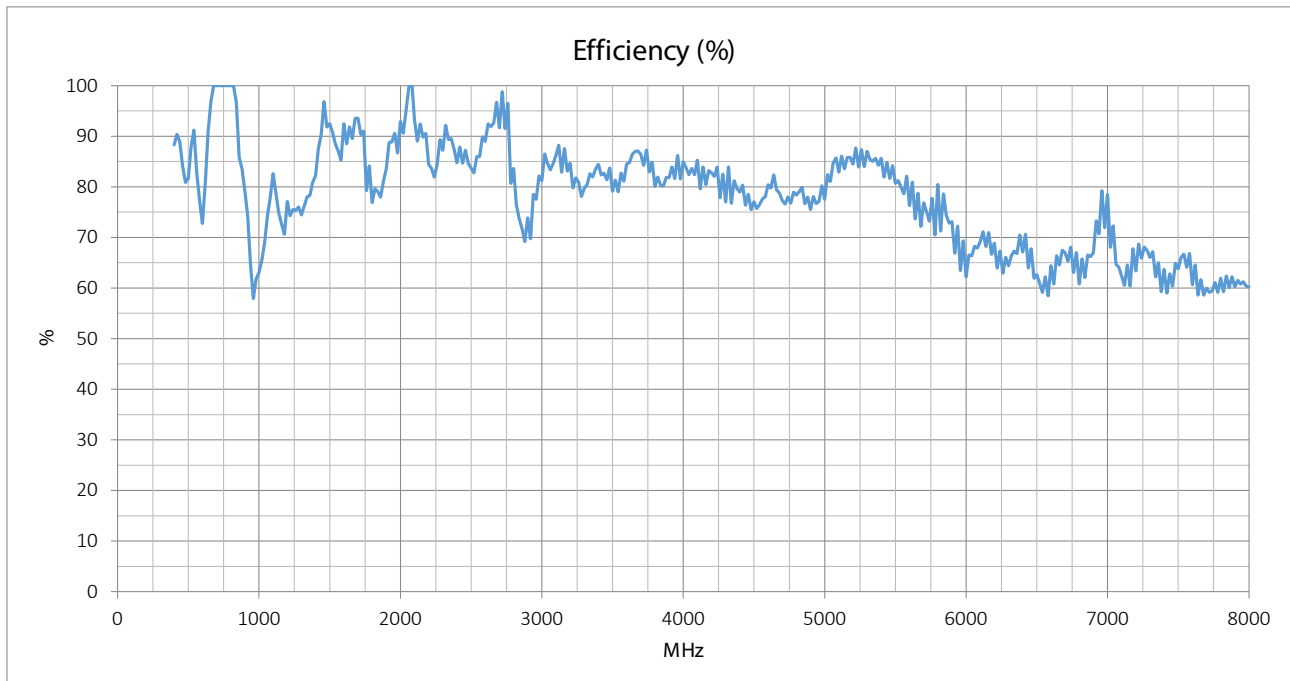
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VSWR



Radiation Efficiency





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Cellular Standards Band Support

GSM (2G) Band	UMTS (3G) Band	E-UTRA (4G) Band	NR (5G) FR1 Bands	NR (5G) FR2 Bands	NR (5G) Cat NB1 & NB2 Bands	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
	1	1	n1		n1	1920 - 1980 MHz	2110 - 2170 MHz	89.06	90.63	2.26	1.64	●
PCS-1900	2	2	n2		n2	1850 - 1910 MHz	1930 - 1990 MHz	81.14	88.98	2.60	2.14	●
DCS-1800	3	3	n3		n3	1710 - 1785 MHz	1805 - 1880 MHz	86.37	79.03	2.98	2.82	●
	4	4				1710 - 1755 MHz	2110 - 2155 MHz	89.42	90.81	2.98	1.61	●
GSM-850	5	5	n5		n5	824 - 849 MHz	869 - 894 MHz	96.60	83.00	2.13	2.42	●
	6					830 - 840 MHz	875 - 885 MHz	97.45	83.44	2.13	2.37	●
	7	7	n7		n7	2500 - 2570 MHz	2620 - 2690 MHz	84.88	93.38	1.55	1.51	●
E-GSM-900	8	8	n8		n8	880 - 915 MHz	925 - 960 MHz	79.69	64.32	2.68	3.02	●
	9	9				1749.9 - 1784.9 MHz	1844.9 - 1879.9 MHz	82.07	79.04	2.79	2.67	●
	10	10				1710 - 1770 MHz	2110 - 2170 MHz	87.20	90.63	2.98	1.64	●
	11	11				1427.9 - 1447.9 MHz	1475.9 - 1495.9 MHz	90.35	92.14	3.01	3.08	●
	12	12	n12		n12	699 - 716 MHz	729 - 746 MHz	100.00	100.00	1.62	1.81	●
	13	13	n13			777 - 787 MHz	746 - 756 MHz	100.00	100.00	1.79	1.79	●
	14	14	n14		n14	788 - 798 MHz	758 - 768 MHz	100.00	100.00	1.91	1.73	●
		17				704 - 716 MHz	734 - 746 MHz	100.00	100.00	1.62	1.81	●
		18	n18		n18	815 - 830 MHz	860 - 875 MHz	99.43	85.02	2.13	2.32	●
	19	19				830 - 845 MHz	875 - 890 MHz	96.72	82.94	2.13	2.38	●
	20	20	n20		n20	832 - 862 MHz	791 - 821 MHz	92.49	100.00	2.21	2.03	●
	21	21				1447.9 - 1462.9 MHz	1495.9 - 1510.9 MHz	95.18	92.12	2.84	3.08	●
	22	22				3410 - 3490 MHz	3510 - 3590 MHz	82.47	81.09	2.16	2.11	●
		23				2000 - 2020 MHz	2180 - 2200 MHz	91.74	87.49	1.85	1.58	●
		24	n24		n24	1626.5 - 1660.5 MHz	1525 - 1559 MHz	90.68	88.51	3.11	2.92	●
	25	25	n25		n25	1850 - 1915 MHz	1930 - 1995 MHz	81.58	89.10	2.60	2.14	●
	26	26	n26		n26	814 - 849 MHz	859 - 894 MHz	97.53	83.70	2.13	2.42	●
		27				807 - 824 MHz	852 - 869 MHz	99.92	86.64	2.05	2.28	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



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Cellular Standards Band Support

GSM (2G) Band	UMTS (3G) Band	E-UTRA (4G) Band	NR (5G) FR1 Bands	NR (5G) FR2 Bands	NR (5G) Cat NB1 & NB2 Bands	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
		28	n28		n28	703 - 748 MHz	758 - 803 MHz	100.00	100.00	1.81	1.94	●
		28A				703 - 733 MHz	758 - 788 MHz	100.00	100.00	1.81	1.79	●
		29	n29			-	717 - 728 MHz	-	100.00	-	1.80	●
		30	n30			2305 - 2315 MHz	2350 - 2360 MHz	89.68	89.46	1.55	1.40	●
		31	n31		n31	452.5 - 457.5 MHz	462.5 - 467.5 MHz	85.33	83.33	9.20	8.79	●
	32	32				-	1452 - 1496 MHz	-	93.73	-	3.08	●
		33				1900 - 1920 MHz	1900 - 1920 MHz	86.14	86.14	2.30	2.30	●
		34	n34			2010 - 2025 MHz	2010 - 2025 MHz	91.16	91.16	1.85	1.85	●
		35				1850 - 1910 MHz	1850 - 1910 MHz	81.14	81.14	2.60	2.60	●
		36				1930 - 1990 MHz	1930 - 1990 MHz	88.98	88.98	2.14	2.14	●
		37				1910 - 1930 MHz	1910 - 1930 MHz	88.09	88.09	2.29	2.29	●
		38	n38			2570 - 2620 MHz	2570 - 2620 MHz	89.84	89.84	1.53	1.53	●
		39	n39			1880 - 1920 MHz	1880 - 1920 MHz	84.23	84.23	2.35	2.35	●
		40	n40			2300 - 2400 MHz	2300 - 2400 MHz	88.88	88.88	1.56	1.56	●
		41	n41		n41	2496 - 2690 MHz	2496 - 2690 MHz	89.20	89.20	1.55	1.55	●
		42				3400 - 3600 MHz	3400 - 3600 MHz	81.80	81.80	2.16	2.16	●
		43				3600 - 3800 MHz	3600 - 3800 MHz	85.34	85.34	1.86	1.86	●
		44				703 - 803 MHz	703 - 803 MHz	100.00	100.00	1.94	1.94	●
		45				1447 - 1467 MHz	1447 - 1467 MHz	95.15	95.15	2.86	2.86	●
		46	n46			5150 - 5925 MHz	5150 - 5925 MHz	80.09	80.09	2.27	2.27	●
		47	n47			5855 - 5925 MHz	5855 - 5925 MHz	72.06	72.06	2.27	2.27	●
		48	n48			3550 - 3700 MHz	3550 - 3700 MHz	84.86	84.86	2.11	2.11	●
		49				3550 - 3700 MHz	3550 - 3700 MHz	84.86	84.86	2.11	2.11	●
		50	n50			1432 - 1517 MHz	1432 - 1517 MHz	92.70	92.70	3.08	3.08	●
		51	n51			1427 - 1432 MHz	1427 - 1432 MHz	88.86	88.86	3.02	3.02	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



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Cellular Standards Band Support

GSM (2G) Band	UMTS (3G) Band	E-UTRA (4G) Band	NR (5G) FR1 Bands	NR (5G) FR2 Bands	NR (5G) Cat NB1 & NB2 Bands	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
		52				3300 - 3400 MHz	3300 - 3400 MHz	82.12	82.12	2.39	2.39	●
		53	n53			2483.5 - 2495 MHz	2483.5 - 2495 MHz	84.21	84.21	1.52	1.52	●
		54	n54		n54	1670 - 1675 MHz	1670 - 1675 MHz	92.04	92.04	2.76	2.76	●
		65	n65		n65	1920 - 2010 MHz	2110 - 2200 MHz	89.59	89.90	2.26	1.64	●
		66	n66		n66	1710 - 1780 MHz	2110 - 2200 MHz	86.59	89.90	2.98	1.64	●
		67	n67			-	738 - 758 MHz	-	100.00	-	1.81	●
		68				698 - 728 MHz	753 - 783 MHz	100.00	100.00	1.80	1.76	●
		69				-	2570 - 2620 MHz	-	89.84	-	1.53	●
		70	n70		n70	1695 - 1710 MHz	1995 - 2020 MHz	93.01	91.81	2.96	1.85	●
		71	n71		n71	663 - 698 MHz	617 - 652 MHz	99.34	87.55	1.72	2.49	●
		72	n72		n72	451 - 456 MHz	461 - 466 MHz	85.69	83.57	9.34	8.85	●
		73				450 - 455 MHz	460 - 465 MHz	85.93	83.74	9.43	8.89	●
		74	n74		n74	1427 - 1470 MHz	1475 - 1518 MHz	92.80	92.00	3.02	3.08	●
		75	n75			-	1432 - 1517 MHz	-	92.70	-	3.08	●
		76	n76			-	1427 - 1432 MHz	-	88.86	-	3.02	●
			n77			3300 - 4200 MHz	3300 - 4200 MHz	82.94	82.94	2.39	2.39	●
			n78			3300 - 3800 MHz	3300 - 3800 MHz	83.28	83.28	2.39	2.39	●
			n79			4400 - 5000 MHz	4400 - 5000 MHz	78.07	78.07	2.79	2.79	●
			n80			1710 - 1785 MHz	-	86.37	-	2.98	-	●
			n81			880 - 915 MHz	-	79.69	-	2.68	-	●
			n82			832 - 862 MHz	-	92.49	-	2.21	-	●
			n83			703 - 748 MHz	-	100.00	-	1.81	-	●
			n84			1920 - 1980 MHz	-	89.06	-	2.26	-	●
		85	n85			698 - 716 MHz	728 - 746 MHz	100.00	100.00	1.62	1.81	●
			n86			1710 - 1780 MHz	-	86.59	-	2.98	-	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



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Cellular Standards Band Support

GSM (2G) Band	UMTS (3G) Band	E-UTRA (4G) Band	NR (5G) FR1 Bands	NR (5G) FR2 Bands	NR (5G) Cat NB1 & NB2 Bands	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
		87				410 - 415 MHz	420 - 425 MHz	89.59	90.18	10.62	10.53	●
		88				412 - 417 MHz	422 - 427 MHz	89.80	90.04	10.62	10.43	●
			n89			824 - 849 MHz	-	96.60	-	2.13	-	●
			n90		n90	2496 - 2690 MHz	2496 - 2690 MHz	89.20	89.20	1.55	1.55	●
			n91			832 - 862 MHz	1427 - 1432 MHz	92.49	88.86	2.21	3.02	●
			n92			832 - 862 MHz	1432 - 1517 MHz	92.49	92.70	2.21	3.08	●
			n93			880 - 915 MHz	1427 - 1432 MHz	79.69	88.86	2.68	3.02	●
			n94			880 - 915 MHz	1432 - 1517 MHz	79.69	92.70	2.68	3.08	●
			n95			2010 - 2025 MHz	-	91.16	-	1.85	-	●
			n96			5925 - 7125 MHz	5925 - 7125 MHz	66.53	66.53	2.38	2.38	●
			n97			2300 - 2400 MHz	-	88.88	-	1.56	-	●
			n98			1880 - 1920 MHz	-	84.23	-	2.35	-	●
			n99			1626.5 - 1660.5 MHz	-	90.68	-	3.11	-	●
			n100			874.4 - 880 MHz	919.4 - 925 MHz	83.89	73.24	2.36	2.81	●
			n101			1900 - 1910 MHz	1900 - 1910 MHz	84.85	84.85	2.30	2.30	●
			n102			5925 - 6425 MHz	5925 - 6425 MHz	67.34	67.34	2.27	2.27	●
		103				787 - 788 MHz	757 - 758 MHz	100.00	100.00	1.79	1.73	●
			n104			6425 - 7125 MHz	6425 - 7125 MHz	65.95	65.95	2.38	2.38	●
			n105			663 - 703 MHz	612 - 652 MHz	99.43	86.40	1.72	2.53	●
		106	n106			896 - 901 MHz	935 - 940 MHz	79.57	65.91	2.48	2.94	●
						-	612 - 652 MHz	-	86.40	-	2.53	●
						-	470 - 698 MHz	-	86.24	-	8.42	●
			n109			703 - 733 MHz	1432 - 1517 MHz	100.00	92.70	1.81	3.08	●
			n110			1390 - 1395 MHz	1432 - 1435 MHz	81.73	89.43	3.14	2.96	●
						1616 - 1626.5 MHz	1616 - 1626.5 MHz	89.00	89.00	3.17	3.17	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable

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ISM Standards Frequency Support

Application	Frequency Range	Efficiency (%)	Maximum VSWR	Peak Gain from highest direction (dBi)	Use Indicator
ISM 433 MHz	433.05 - 434.79 MHz	89.36	10.20	2.88	●
ISM 868 MHz	863 - 870 MHz	85.14	2.29	3.82	●
ISM 915 MHz	902 - 928 MHz	75.25	2.81	3.18	●
ISM 2.4 GHz	2400 - 2500 MHz	85.73	1.55	4.64	●
Wi-Fi 2.4G channels 1-11	2401 - 2473 MHz	86.24	1.55	4.64	●
Wi-Fi 2.4G channels 1-13	2401 - 2483 MHz	86.08	1.55	4.64	●
Wi-Fi 2.4G channels 1-14	2401 - 2495 MHz	85.84	1.55	4.64	●
Citizens Broadband Radio Service	3550 - 3700 MHz	84.86	2.11	5.40	●
Wi-Fi CBRS channels 131-138	3655 - 3695 MHz	86.95	1.86	5.32	●
Wi-Fi 5G (Ch 32-48)	5150 - 5250 MHz	85.57	2.03	5.80	●
Wi-Fi 5G (Ch 32-68)	5150 - 5350 MHz	85.64	2.03	5.86	●
Wi-Fi 5G (Ch 32-165)	5150 - 5835 MHz	80.99	2.13	5.86	●
Wi-Fi 5G (Ch 32-173)	5150 - 5875 MHz	80.69	2.13	5.86	●
Wi-Fi 5G (Ch 32-177)	5150 - 5895 MHz	80.49	2.13	5.86	●
Wi-Fi 5.9G (Ch 172-180)	5855 - 5905 MHz	73.37	2.13	4.40	●
Wi-Fi 5.9G (Ch 182-196)	5905 - 5990 MHz	68.13	2.27	4.28	●
Wi-Fi 6E (Ch 1-93)	5925 - 6425 MHz	67.34	2.27	5.00	●
Wi-Fi 6E (Ch 1-233)	5925 - 7125 MHz	66.53	2.38	5.83	●
ISM 5.8 GHz	5725 - 5875 MHz	75.09	1.92	4.83	●
UWB band group 1, BAND_ID 1	3168 - 3696 MHz	82.55	2.44	5.77	●
UWB band group 1, BAND_ID 2	3696 - 4224 MHz	82.93	2.28	5.91	●
UWB band group 1, BAND_ID 3	4224 - 4752 MHz	78.88	2.79	6.08	●
UWB band group 2, BAND_ID 4	4752 - 5280 MHz	81.39	2.58	5.85	●
UWB band group 2, BAND_ID 5	5280 - 5808 MHz	80.20	2.13	5.86	●
UWB band group 2, BAND_ID 6	5808 - 6336 MHz	68.51	2.27	4.58	●
UWB band group 3, BAND_ID 7	6336 - 6864 MHz	64.72	2.38	5.31	●
UWB band group 3, BAND_ID 8	6864 - 7392 MHz	67.11	2.27	5.85	●
UWB band group 3, BAND_ID 9	7392 - 7920 MHz	61.80	2.14	5.72	●
UWB band group 6, BAND_ID 9	7392 - 7920 MHz	61.80	2.14	5.72	●

● Suitable band

● Adequate band in good signal conditions

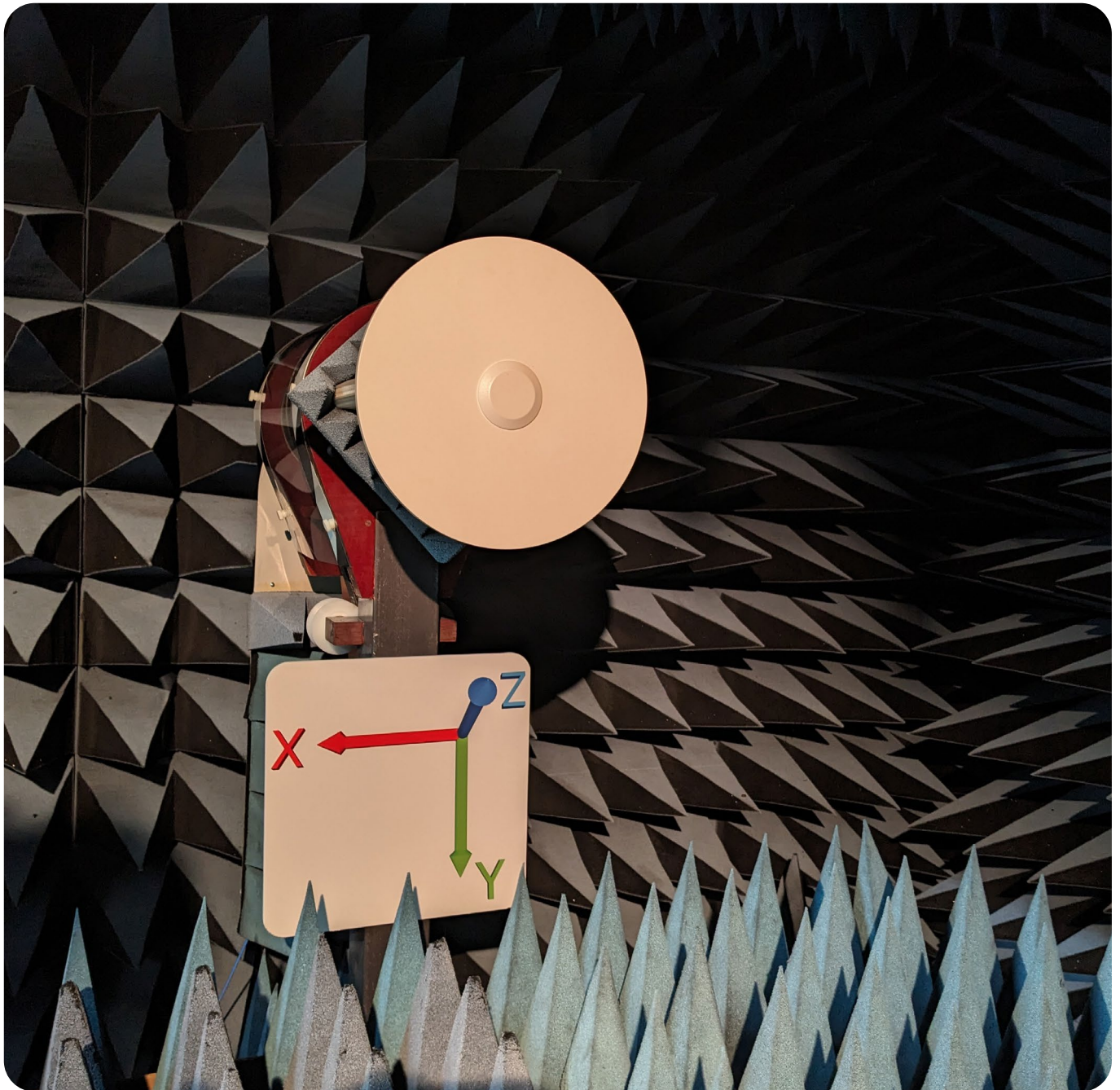
● Likely to be unsuitable



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600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

Test Setup (in Freespace)



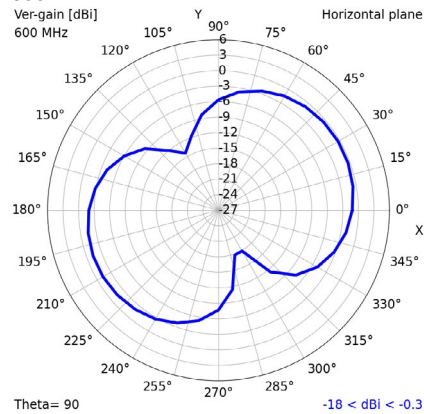


Tango 59

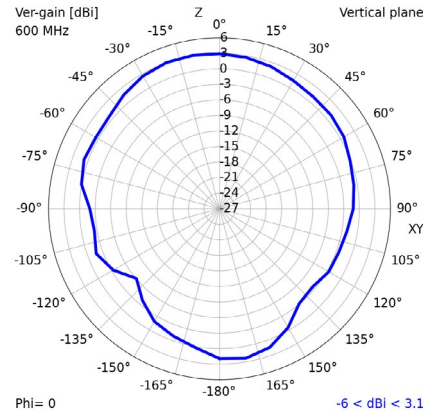
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

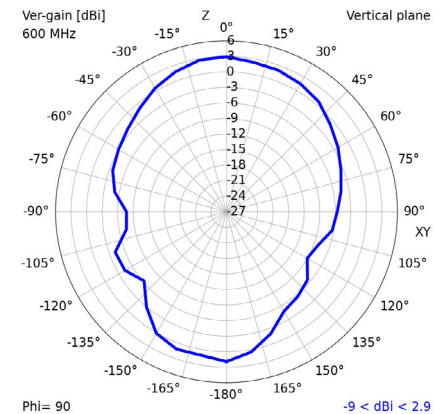
600 MHz XY



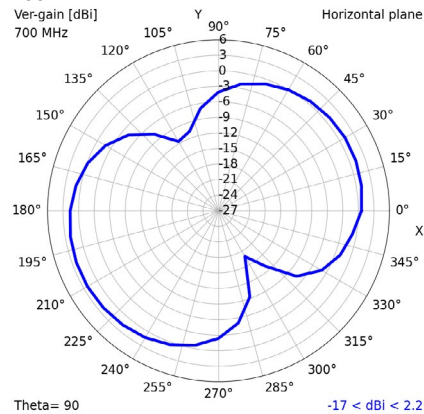
XZ



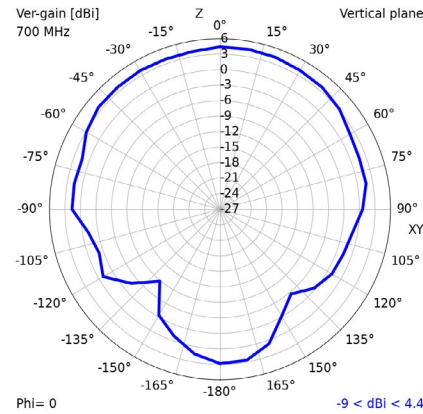
YZ



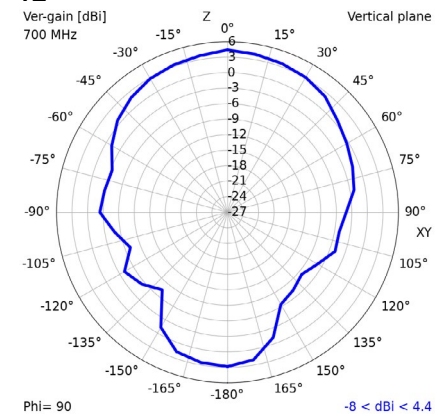
700 MHz XY



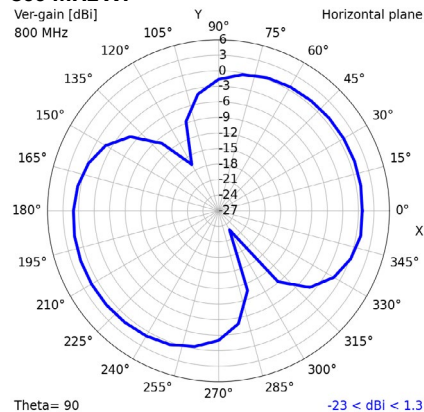
XZ



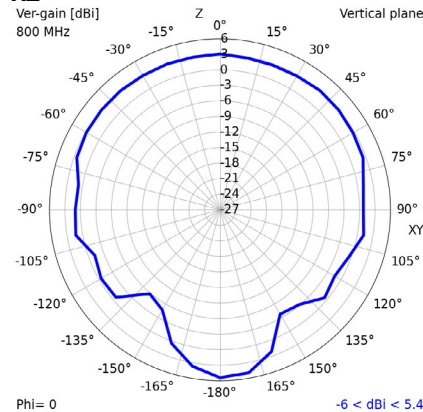
YZ



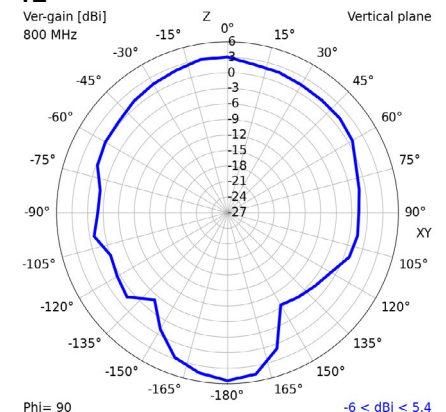
800 MHz XY



XZ



YZ



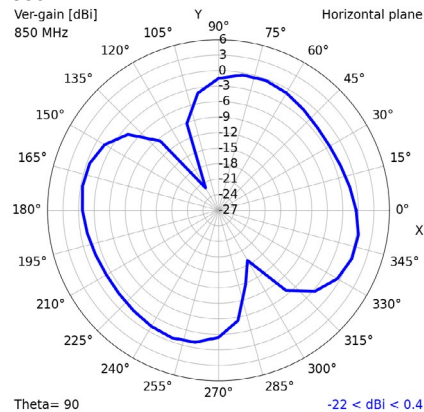


Tango 59

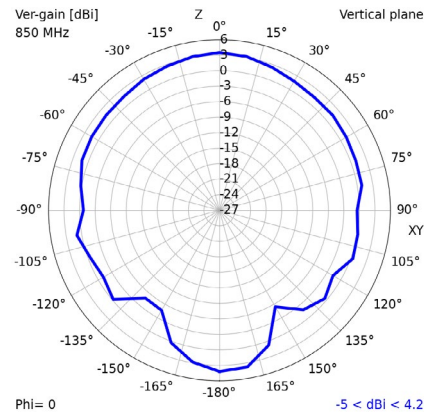
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

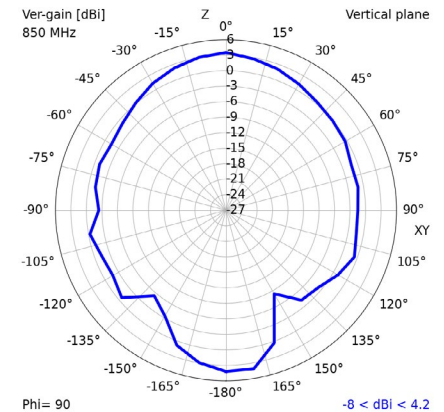
850 MHz XY



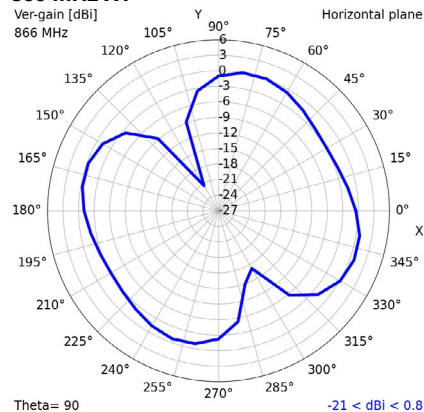
XZ



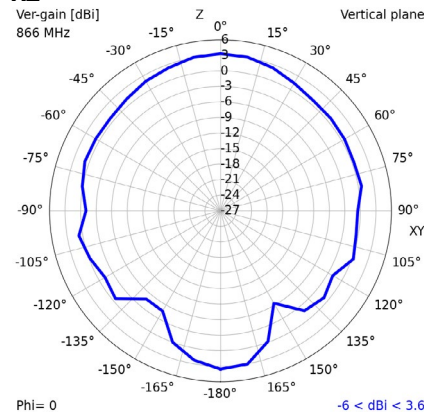
YZ



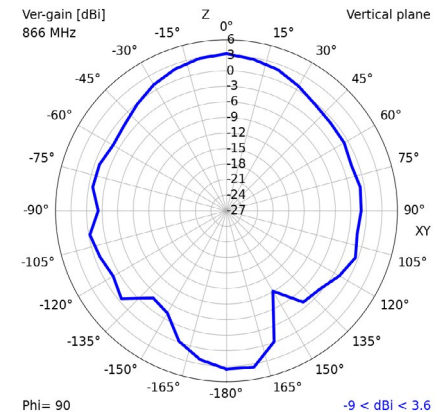
866 MHz XY



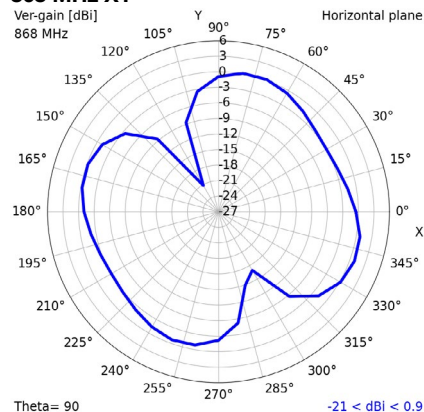
XZ



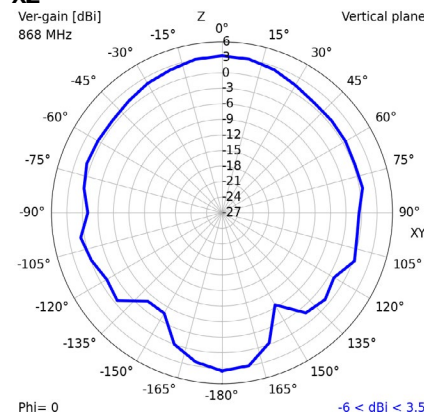
YZ



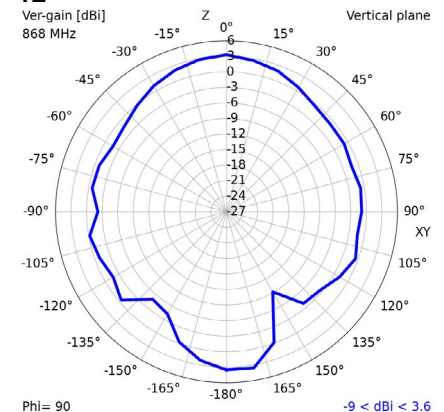
868 MHz XY



XZ



YZ



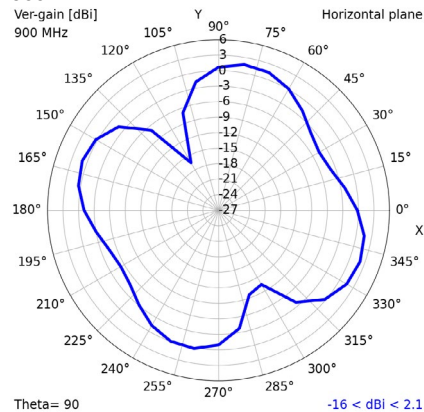


Tango 59

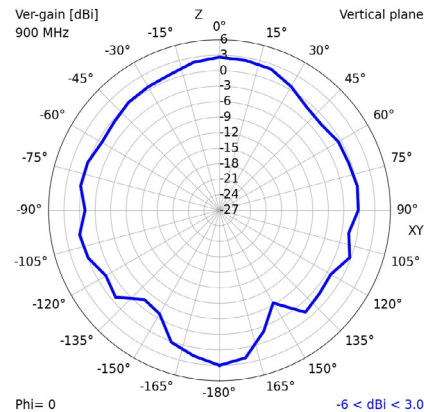
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

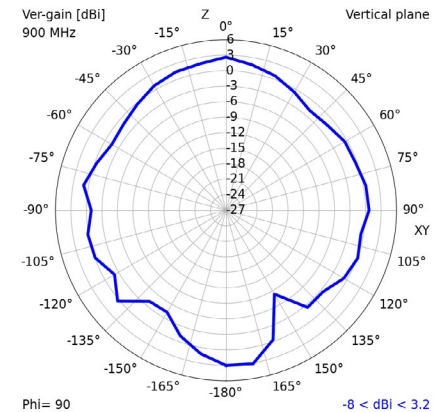
900 MHz XY



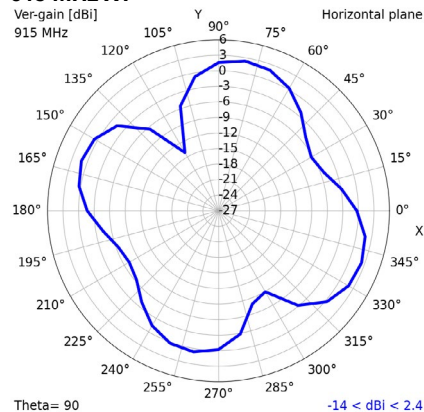
XZ



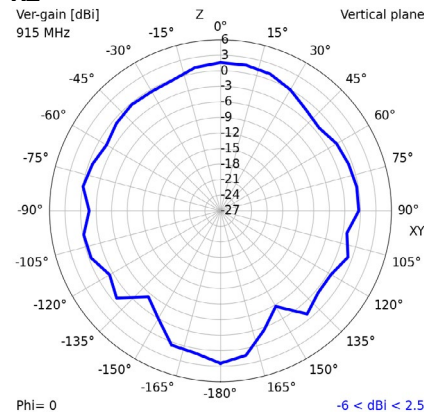
YZ



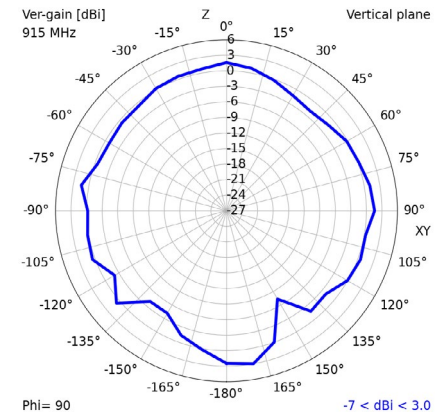
915 MHz XY



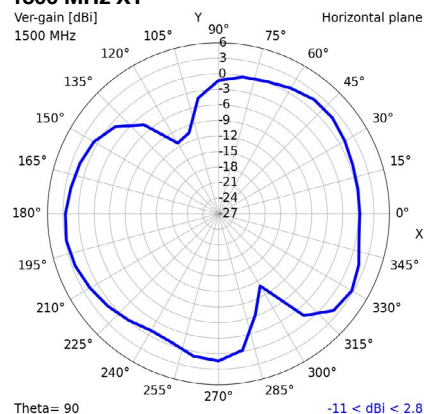
XZ



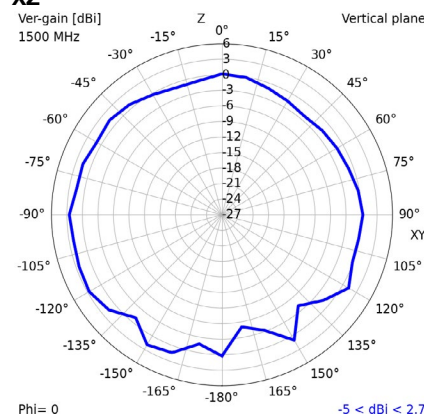
YZ



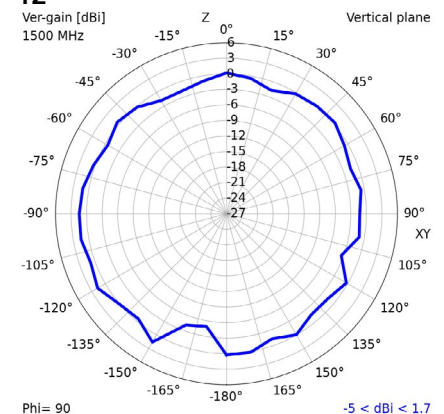
1500 MHz XY



XZ



YZ



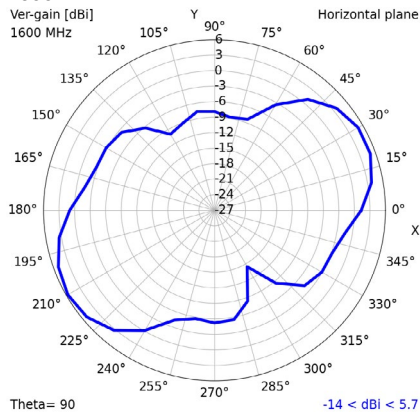


Tango 59

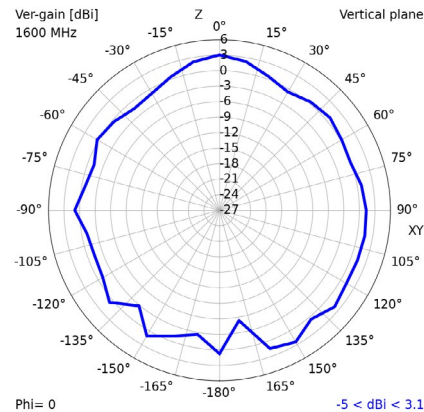
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

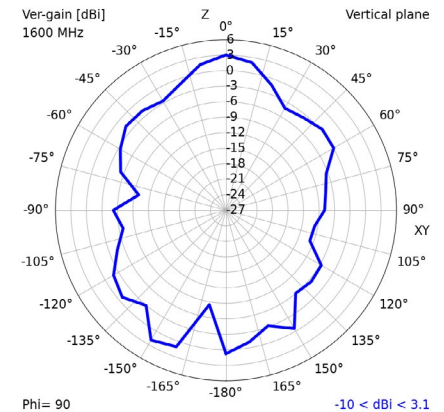
1600 MHz XY



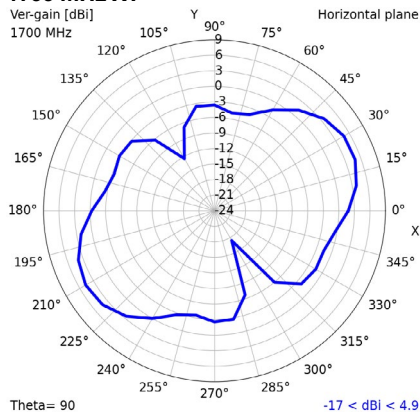
XZ



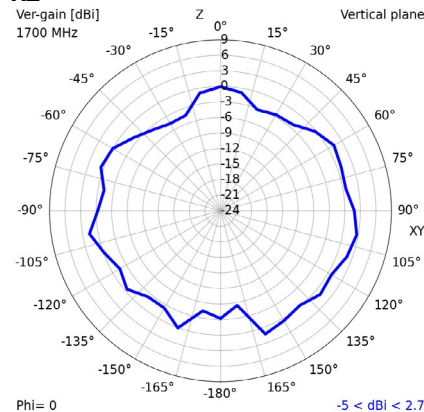
YZ



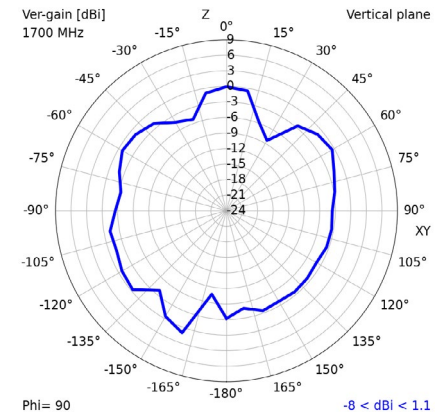
1700 MHz XY



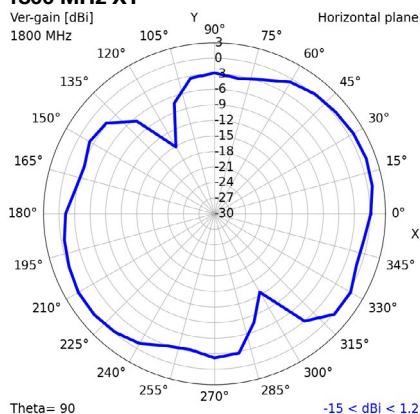
XZ



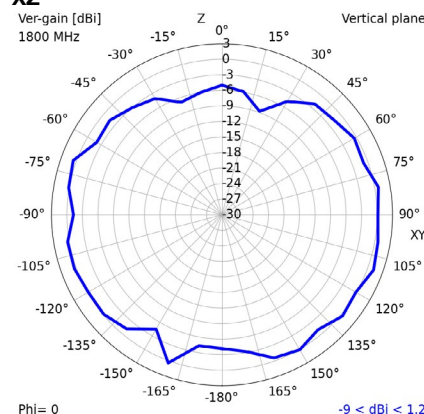
YZ



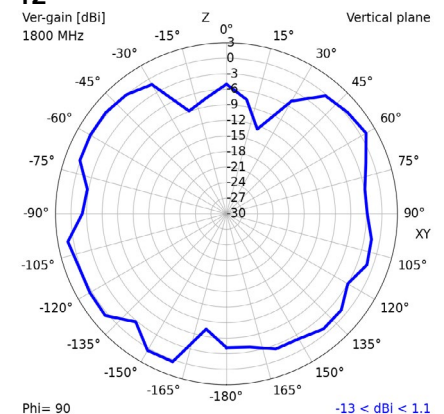
1800 MHz XY



XZ



YZ



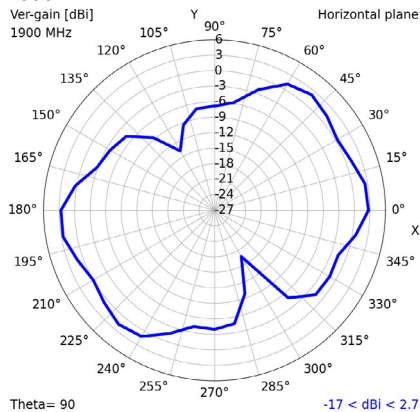


Tango 59

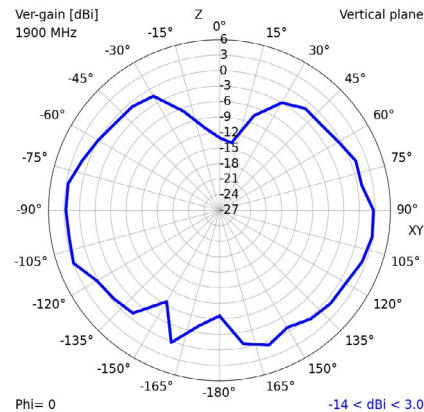
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

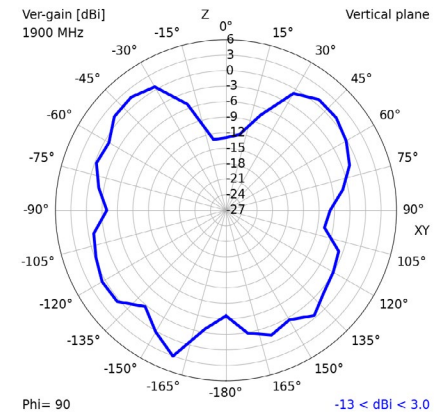
1900 MHz XY



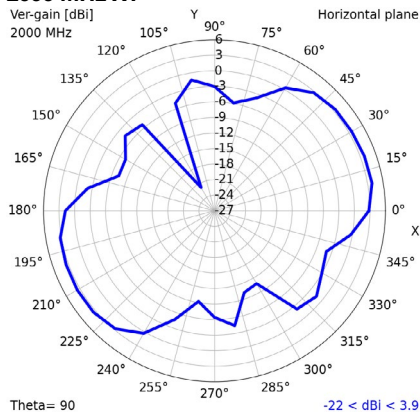
XZ



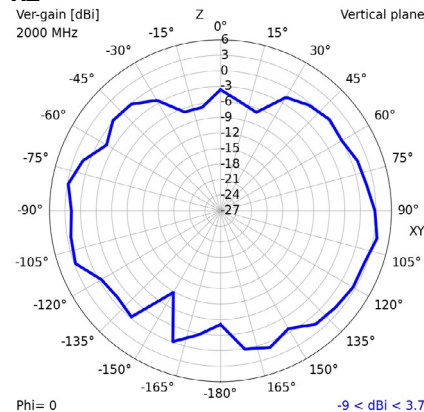
YZ



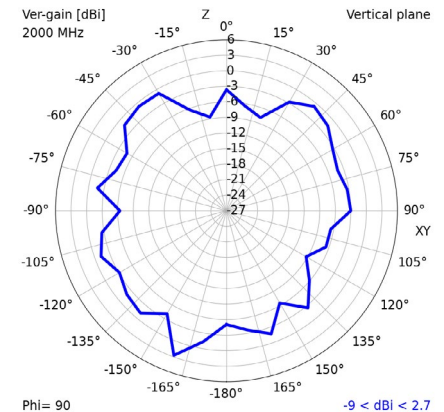
2000 MHz XY



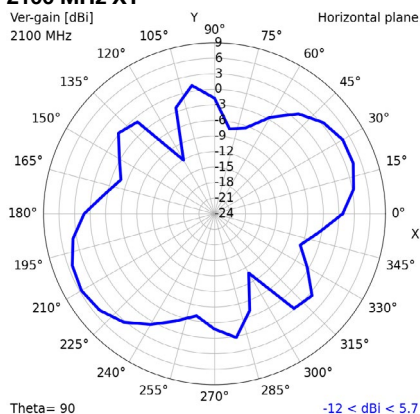
XZ



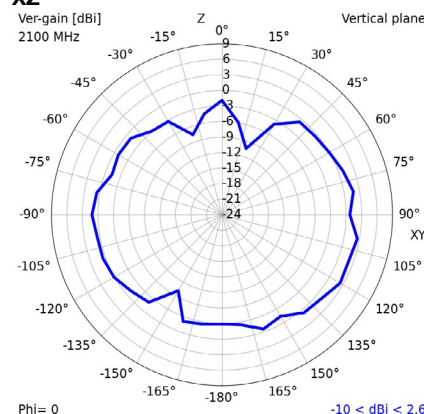
YZ



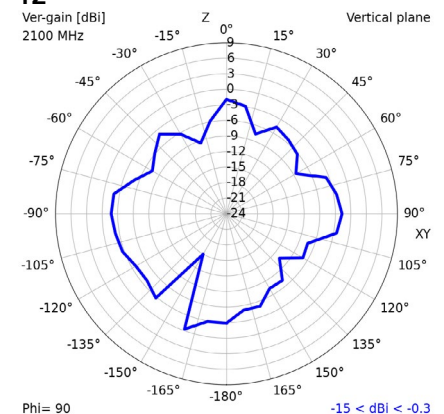
2100 MHz XY



XZ



YZ



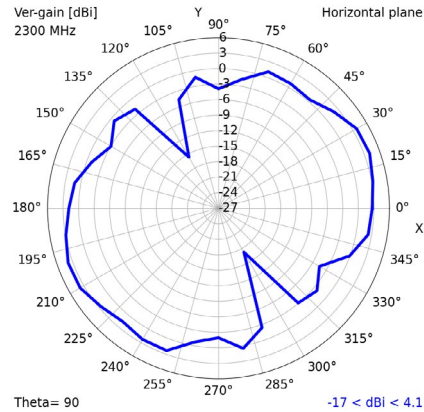


Tango 59

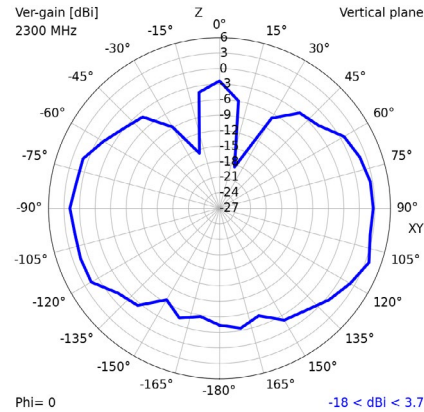
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

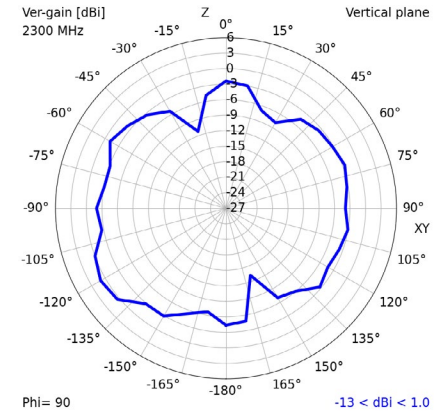
2300 MHz XY



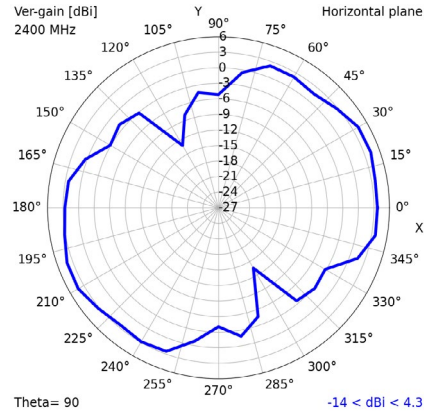
XZ



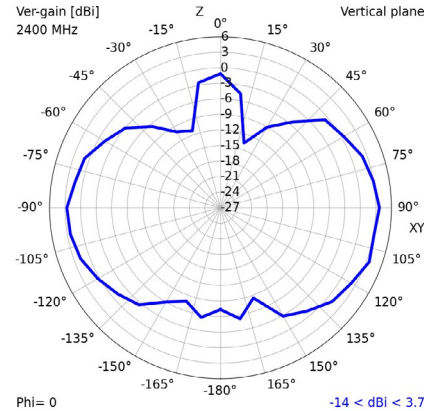
YZ



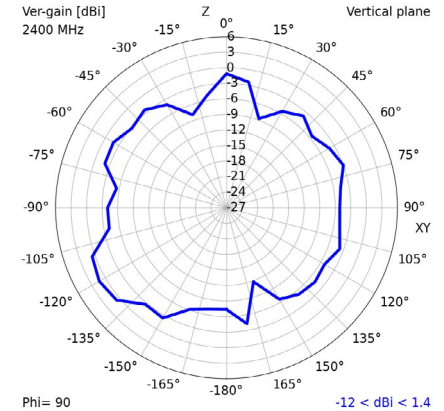
2400 MHz XY



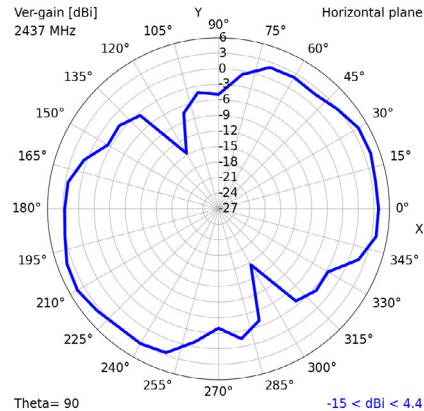
XZ



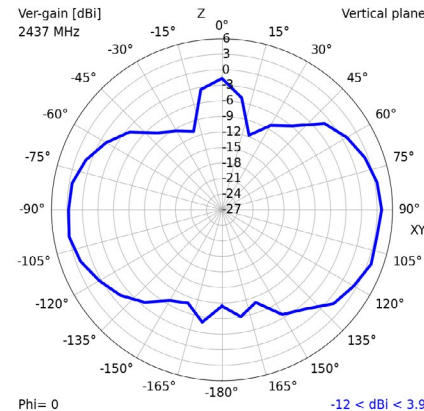
YZ



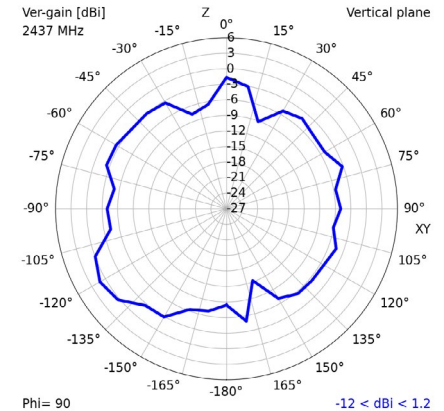
2437 MHz XY



XZ



YZ



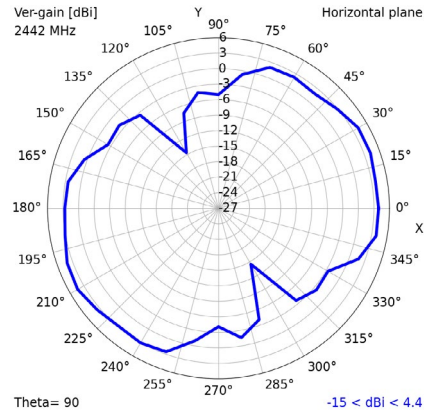


Tango 59

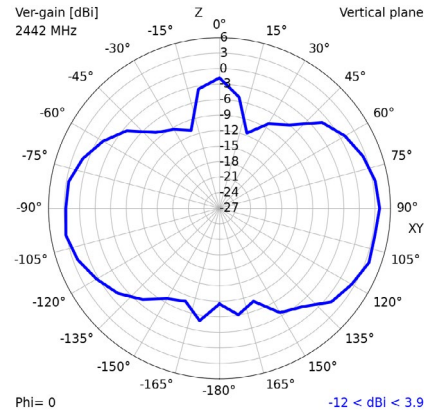
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

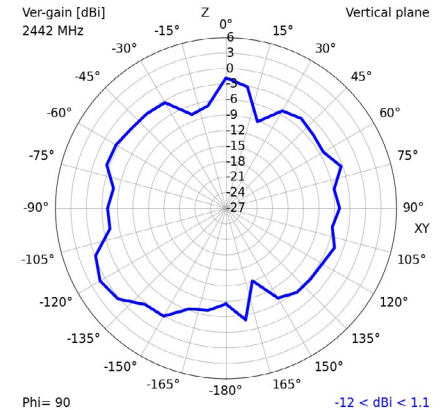
2442 MHz XY



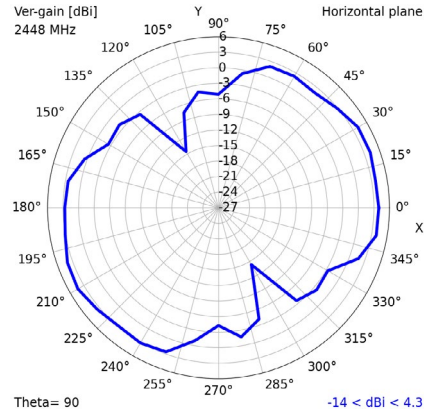
XZ



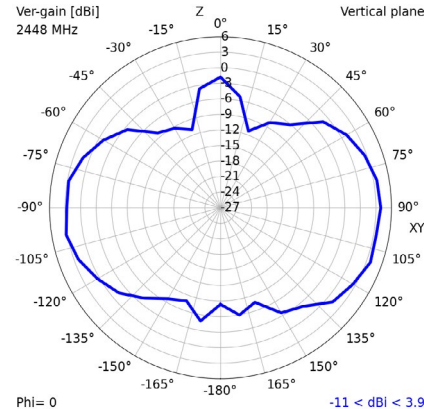
YZ



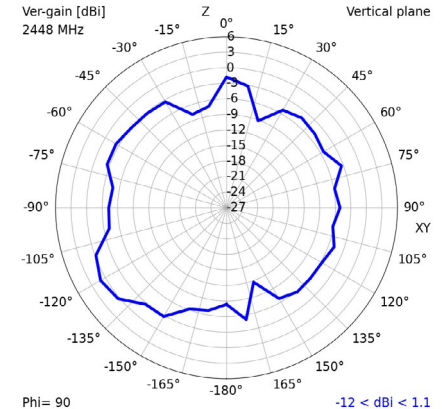
2448 MHz XY



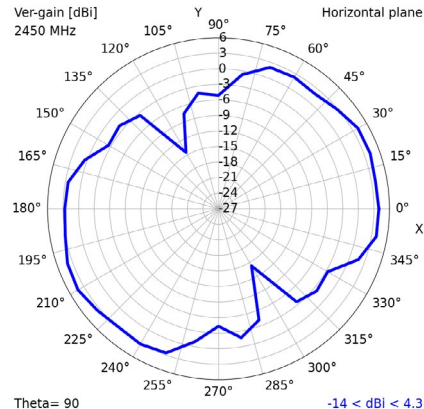
XZ



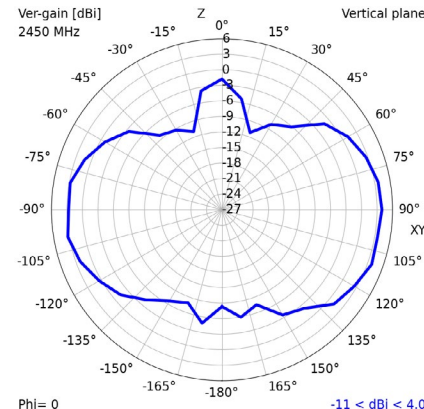
YZ



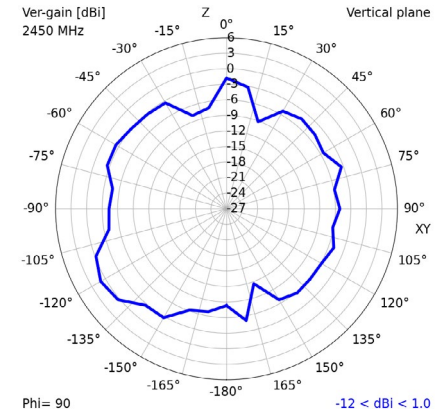
2450 MHz XY



XZ



YZ



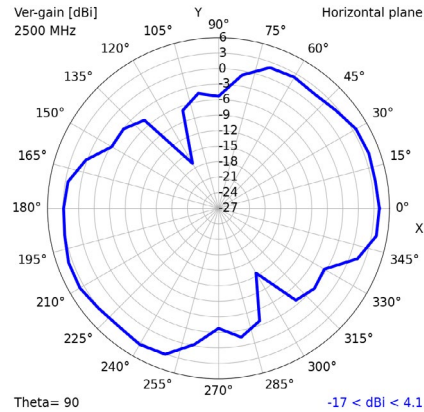


Tango 59

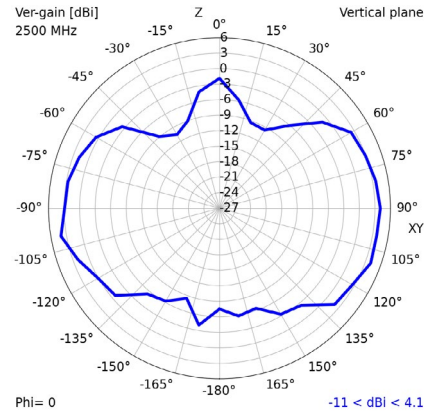
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

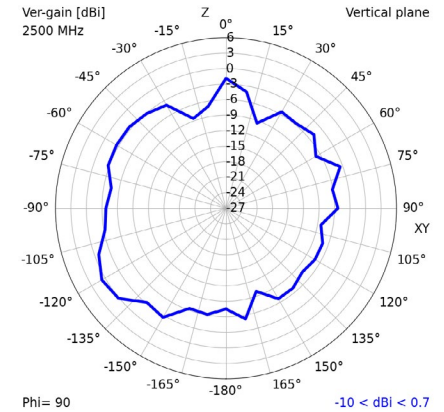
2500 MHz XY



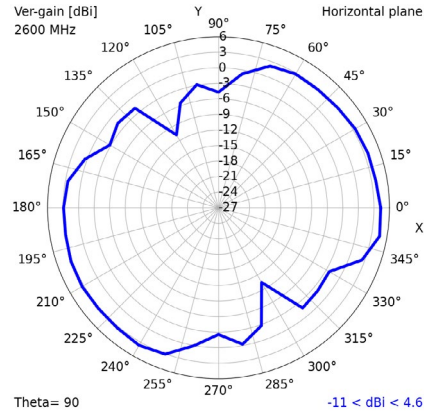
XZ



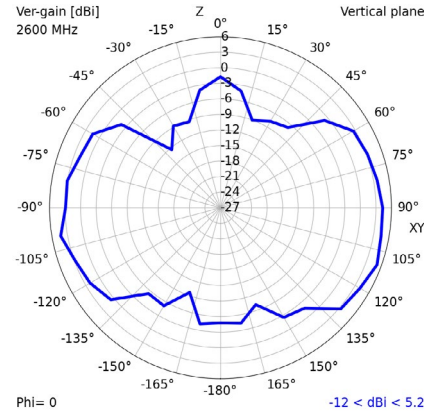
YZ



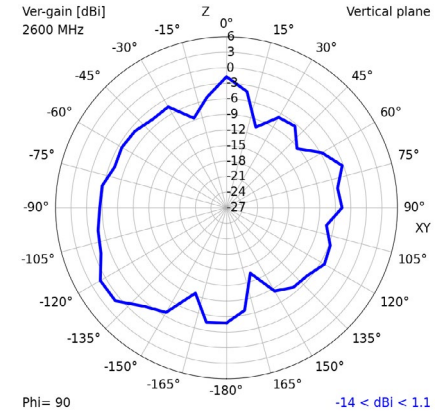
2600 MHz XY



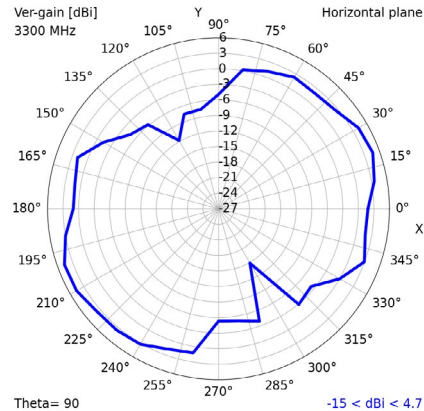
XZ



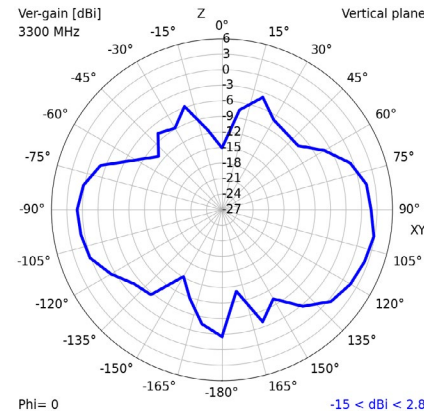
YZ



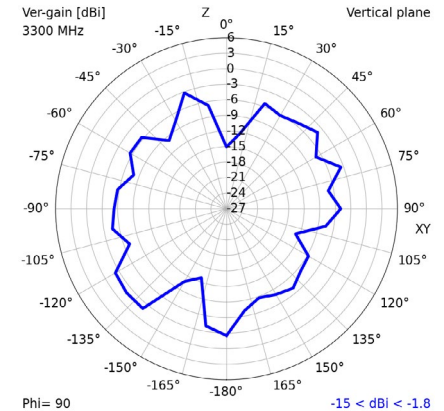
3300 MHz XY



XZ



YZ



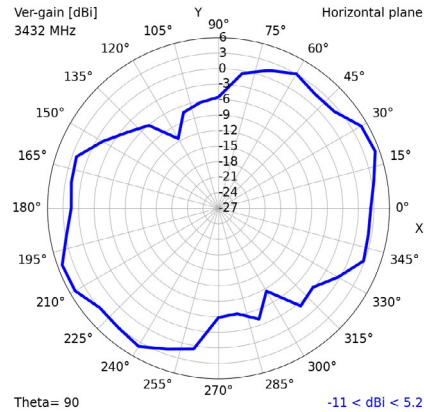


Tango 59

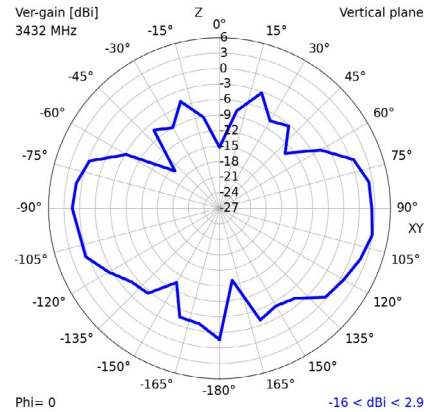
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

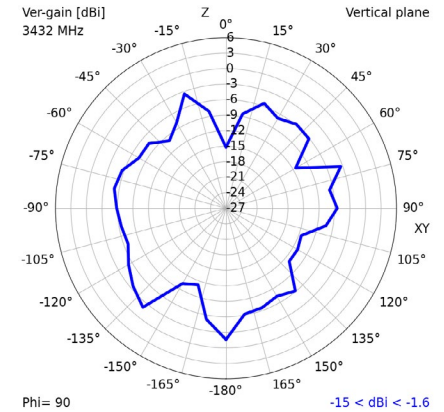
3432 MHz XY



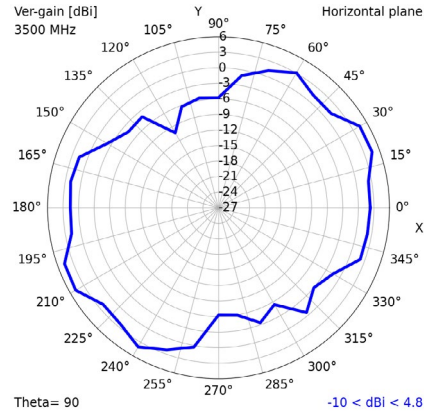
XZ



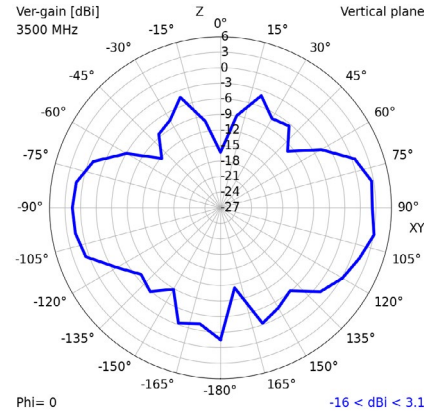
YZ



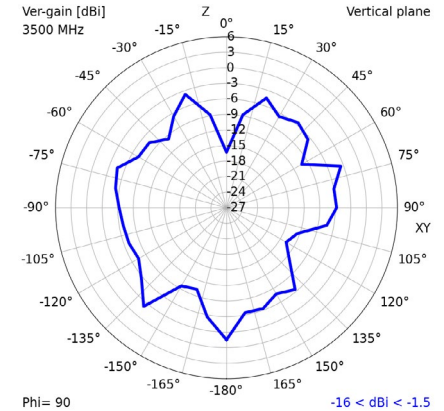
3500 MHz XY



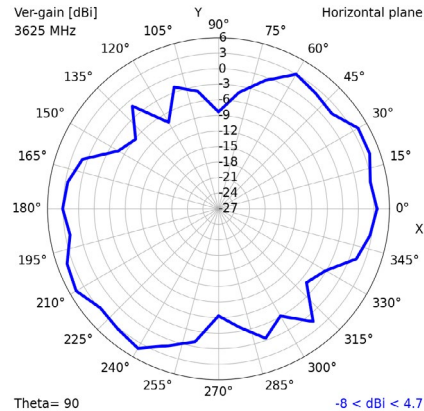
XZ



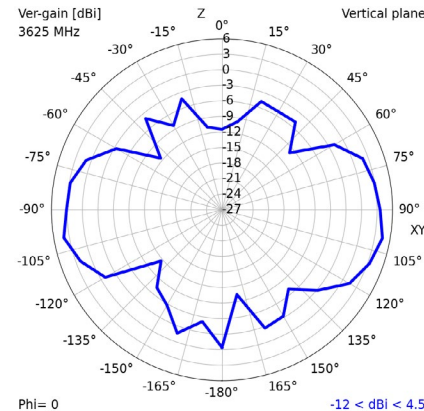
YZ



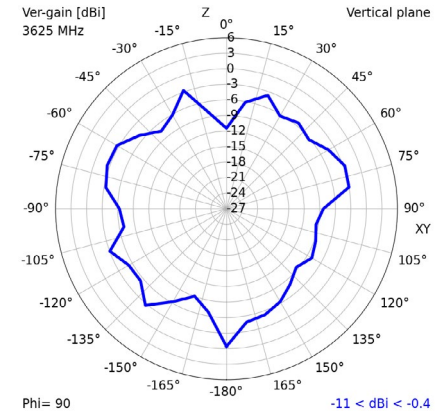
3625 MHz XY



XZ



YZ



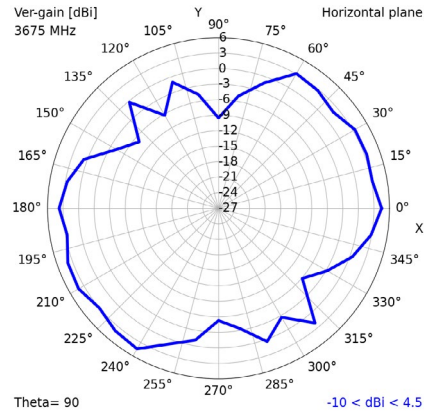


Tango 59

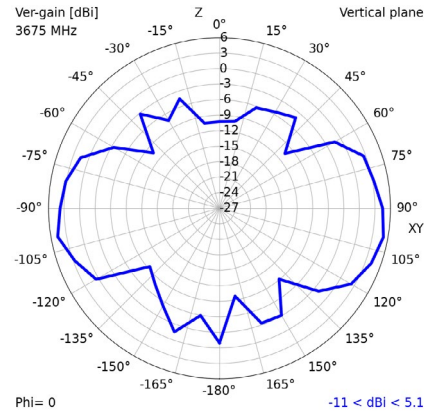
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

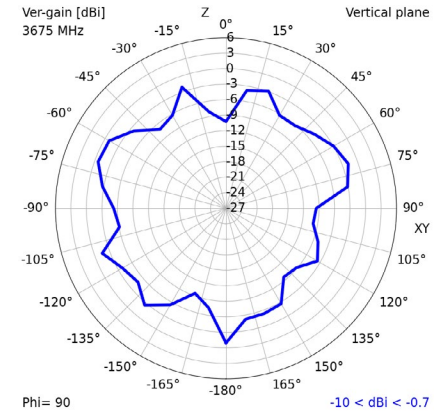
3675 MHz XY



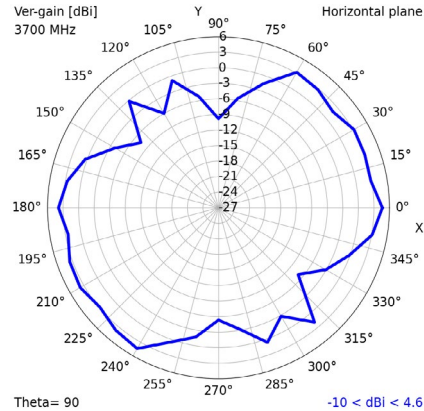
XZ



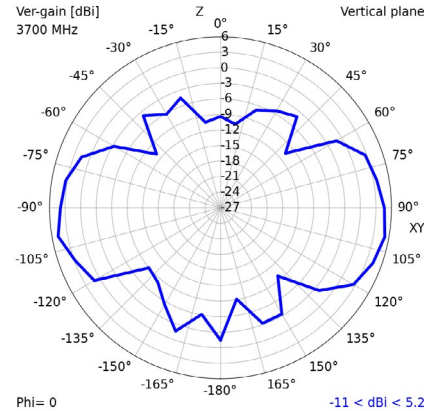
YZ



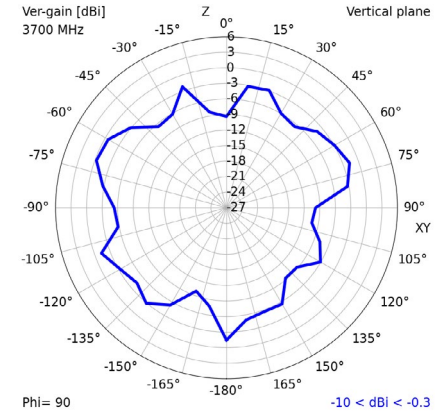
3700 MHz XY



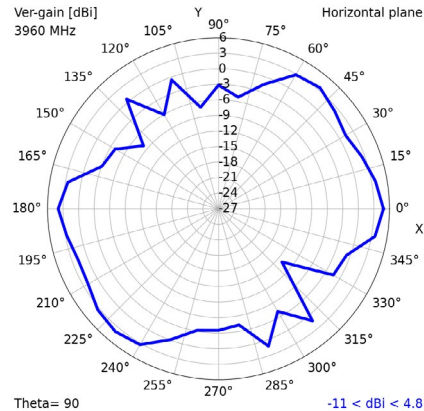
XZ



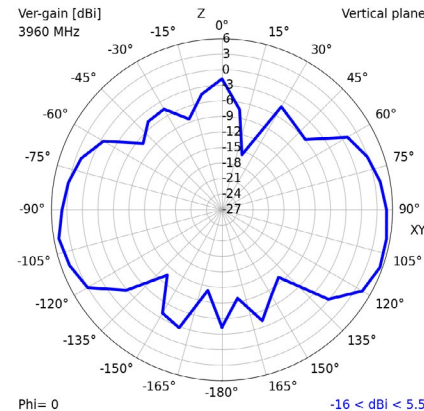
YZ



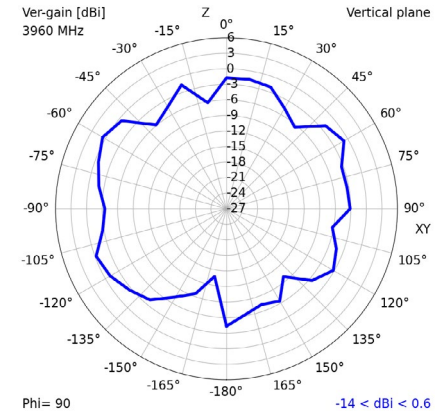
3960 MHz XY



XZ



YZ



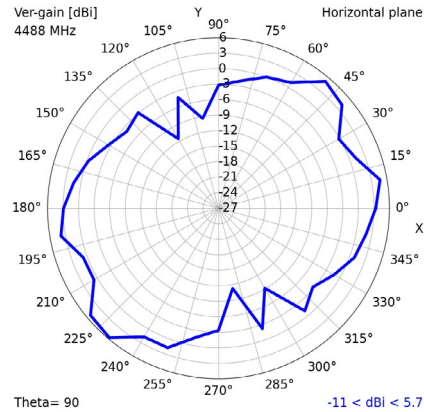


Tango 59

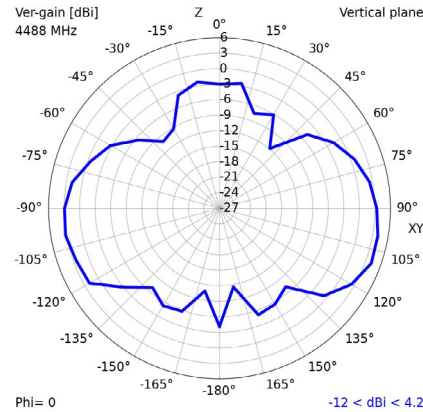
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

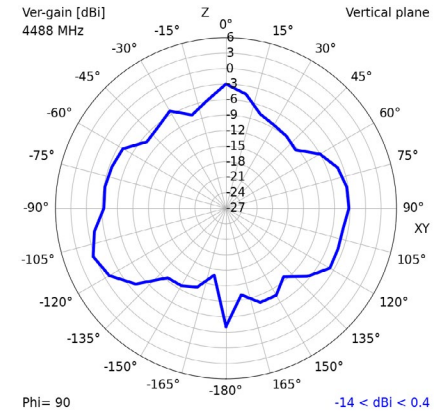
4488 MHz XY



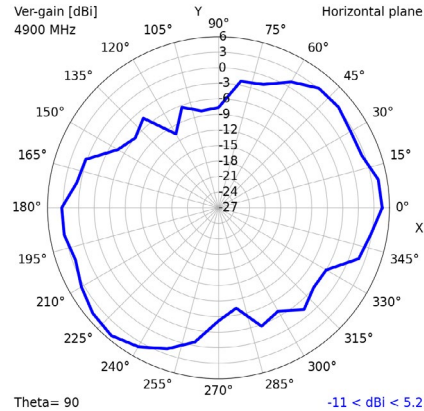
XZ



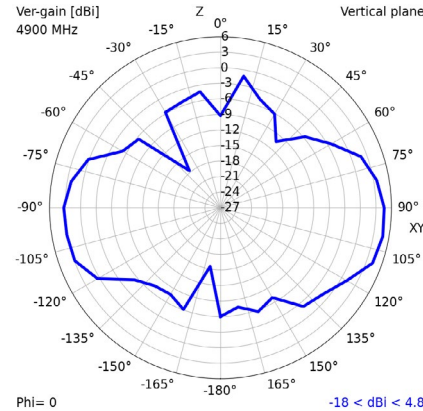
YZ



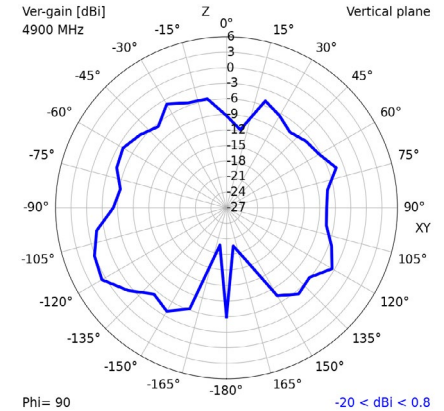
4900 MHz XY



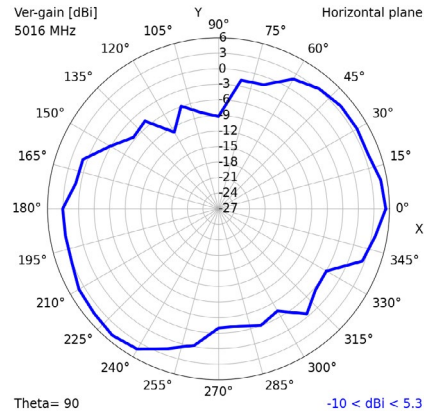
XZ



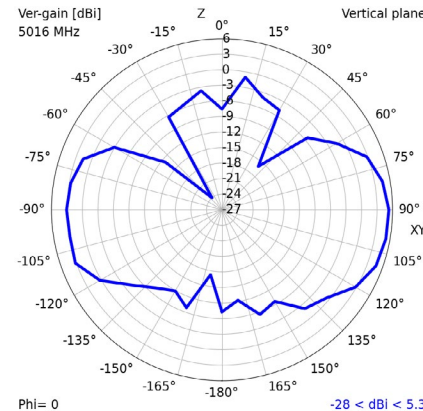
YZ



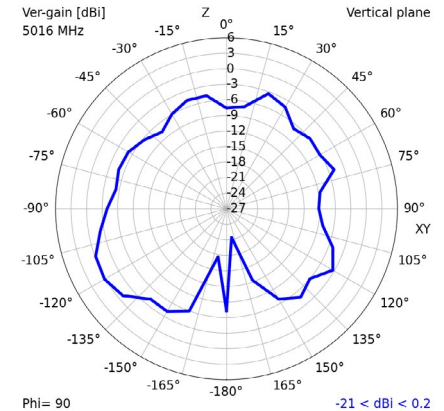
5016 MHz XY



XZ



YZ



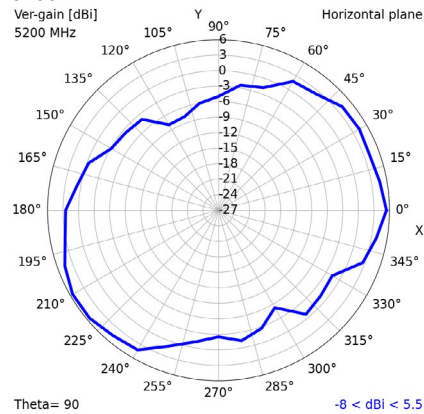


Tango 59

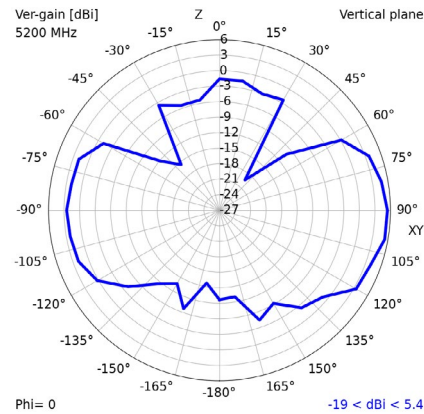
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

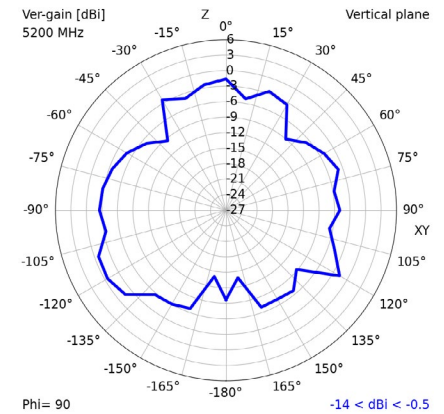
5200 MHz XY



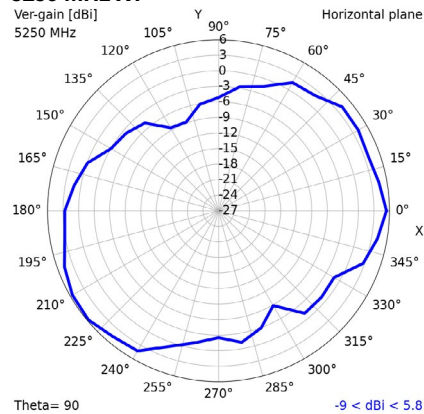
XZ



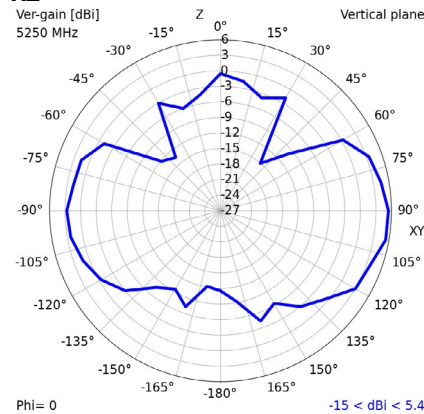
YZ



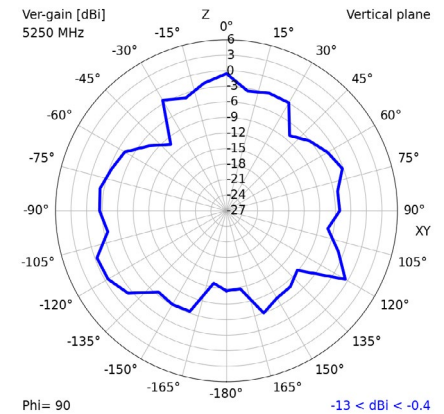
5250 MHz XY



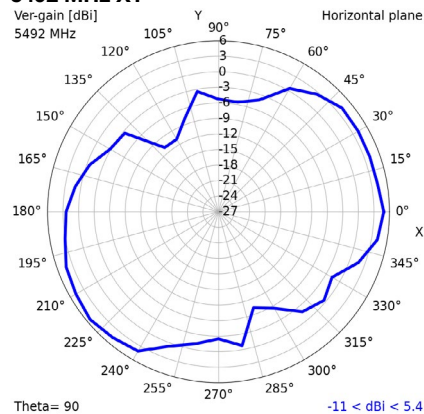
XZ



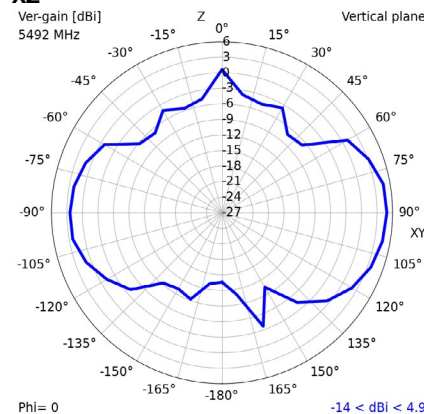
YZ



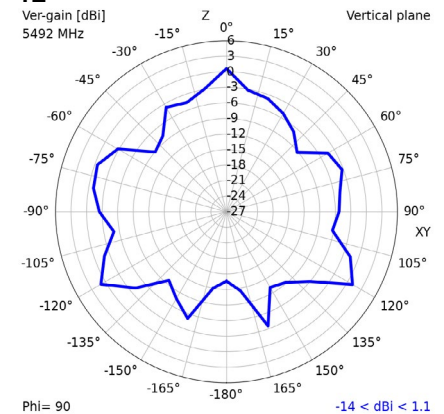
5492 MHz XY



XZ



YZ



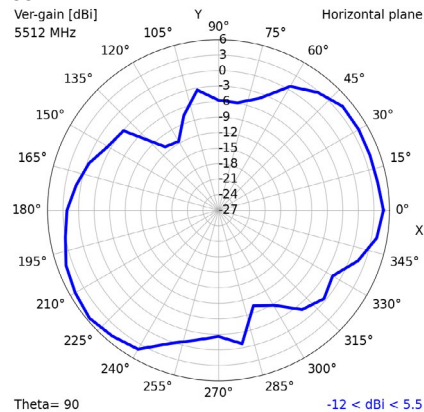


Tango 59

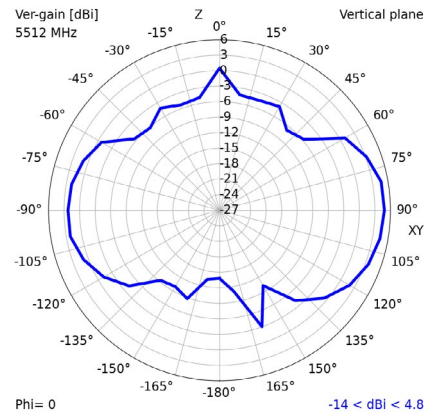
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

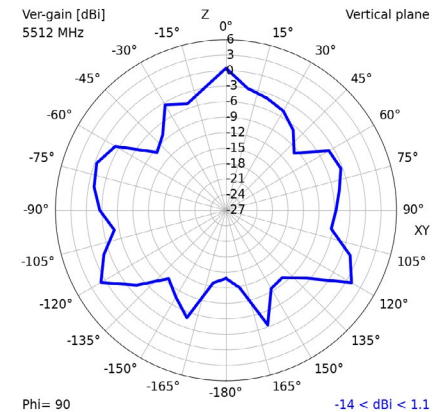
5512 MHz XY



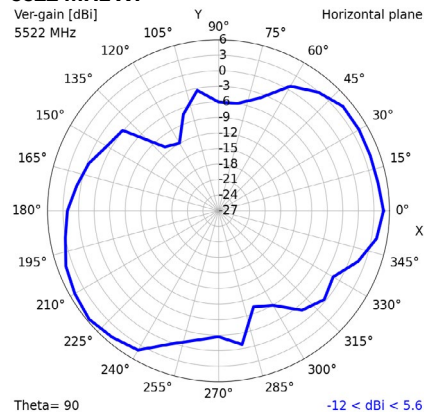
XZ



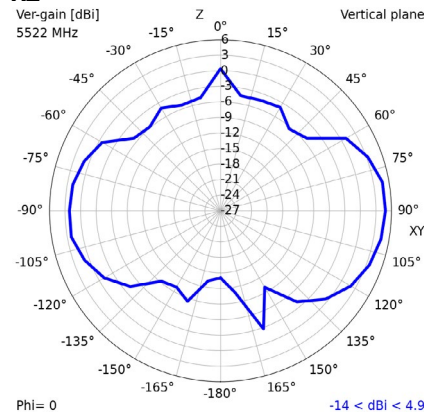
YZ



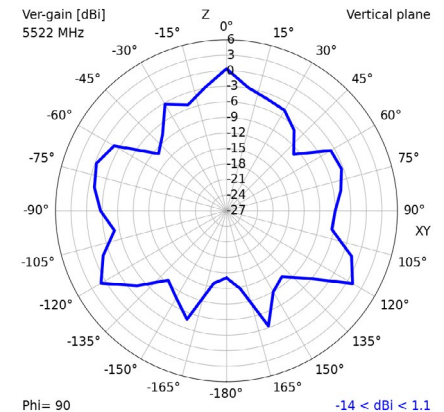
5522 MHz XY



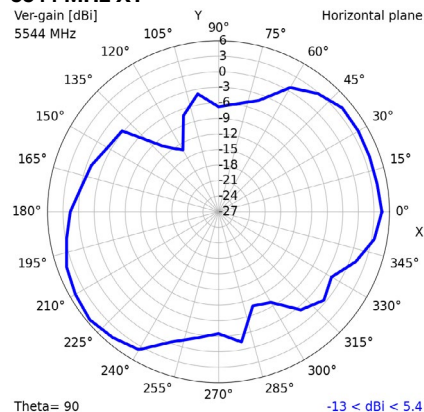
XZ



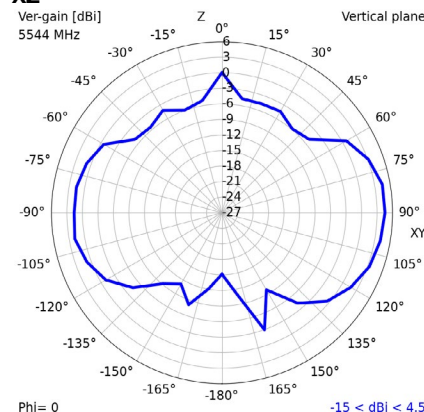
YZ



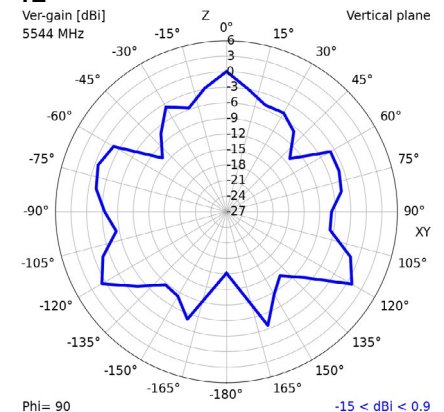
5544 MHz XY



XZ



YZ



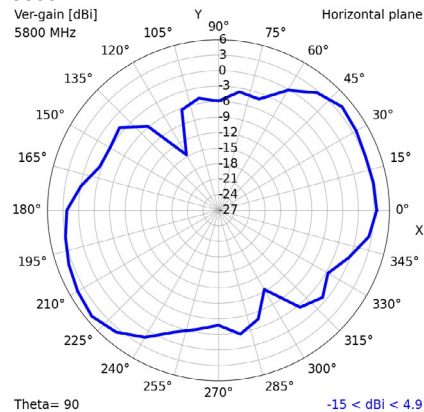


Tango 59

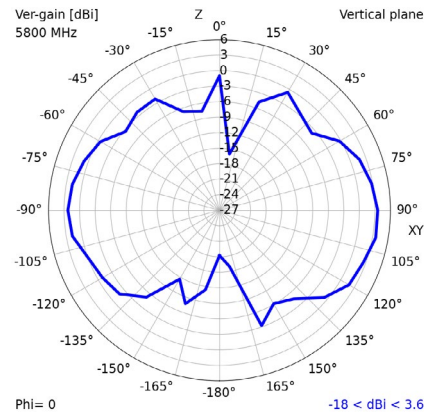
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

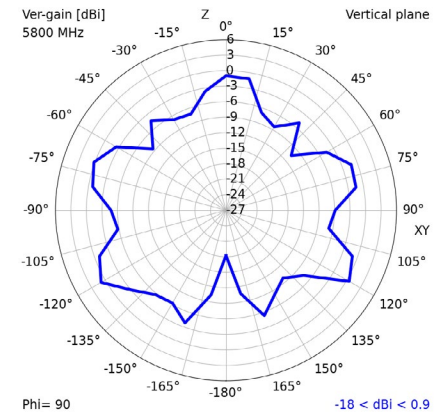
5800 MHz XY



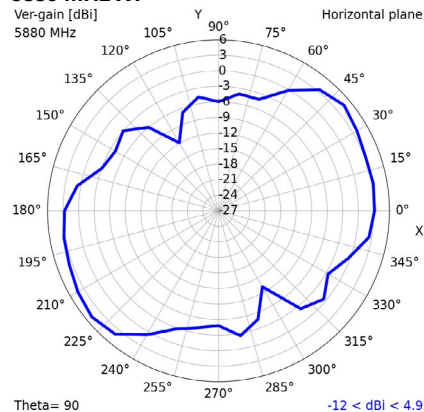
XZ



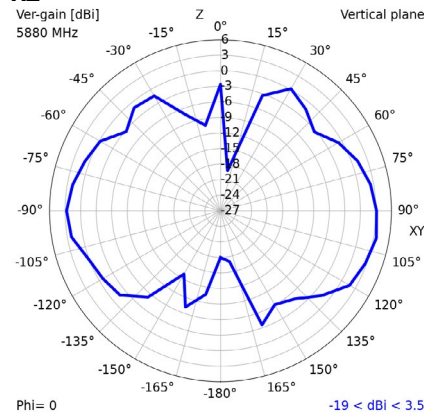
YZ



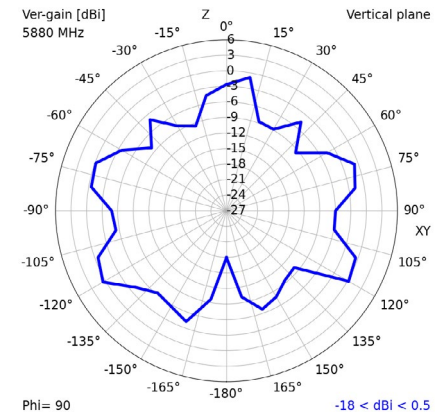
5880 MHz XY



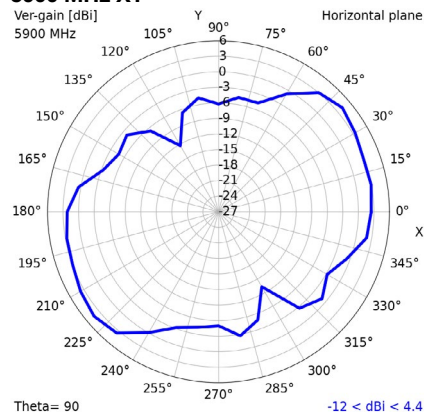
XZ



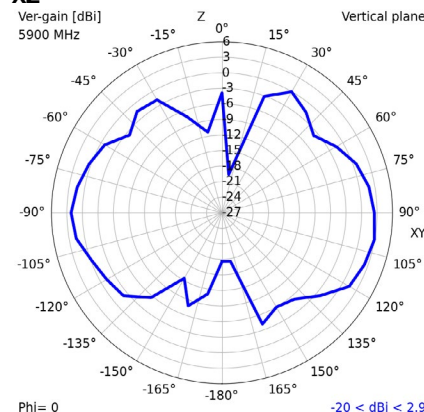
YZ



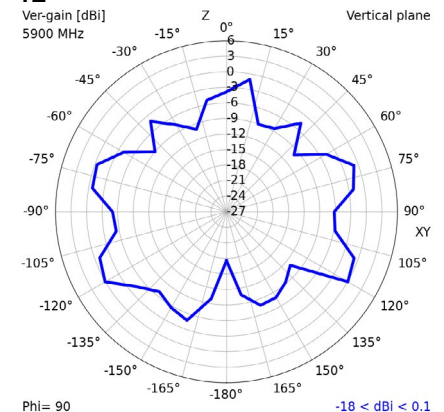
5900 MHz XY



XZ



YZ



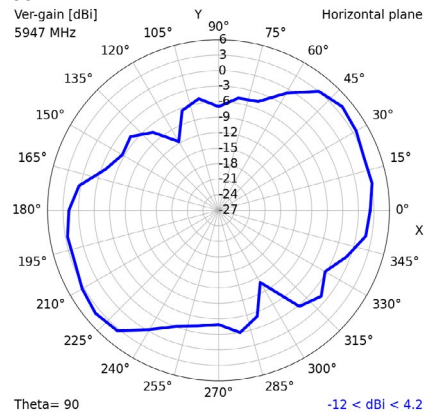


Tango 59

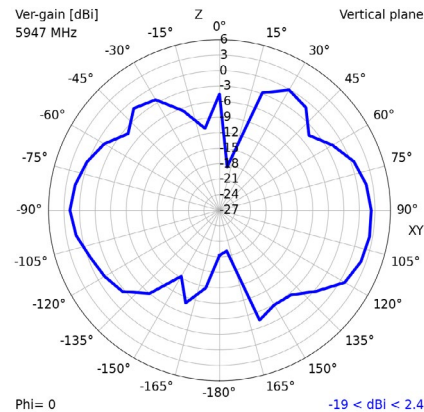
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

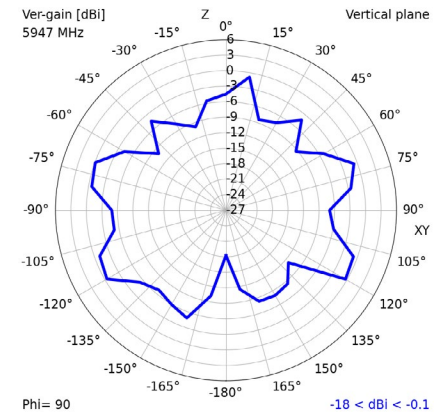
5947 MHz XY



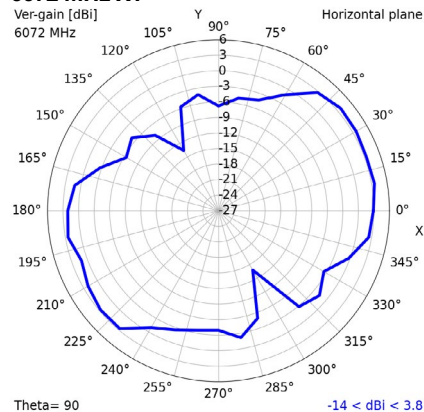
XZ



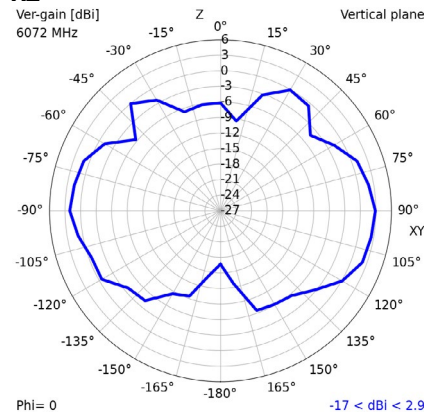
YZ



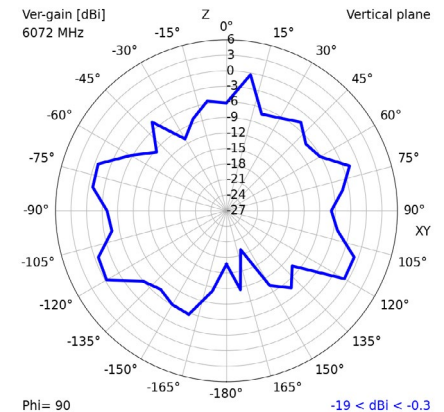
6072 MHz XY



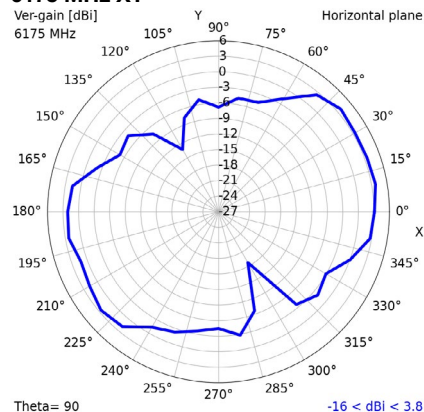
XZ



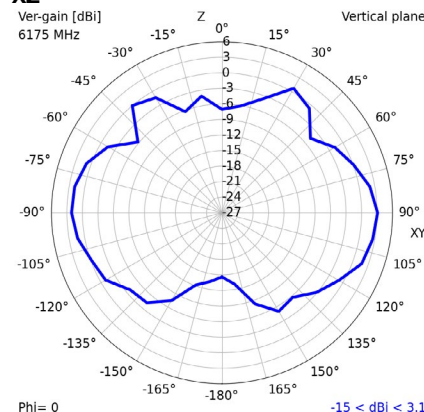
YZ



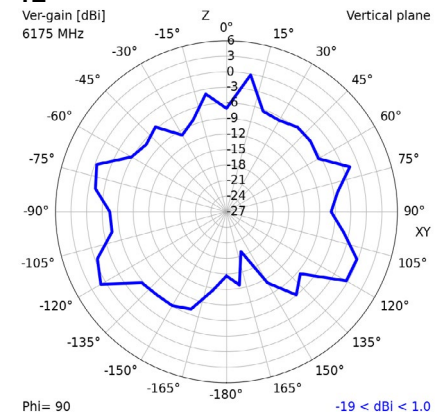
6175 MHz XY



XZ



YZ



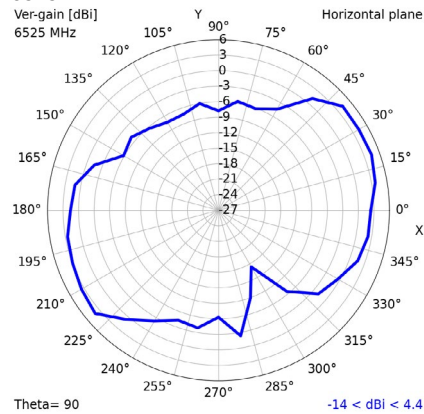


Tango 59

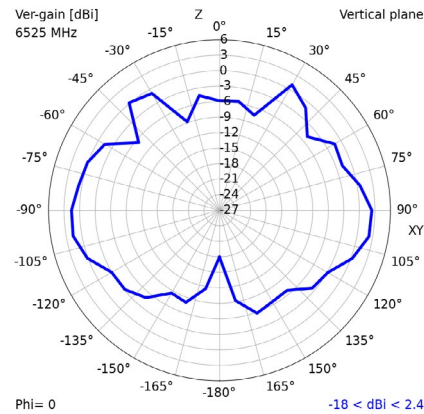
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

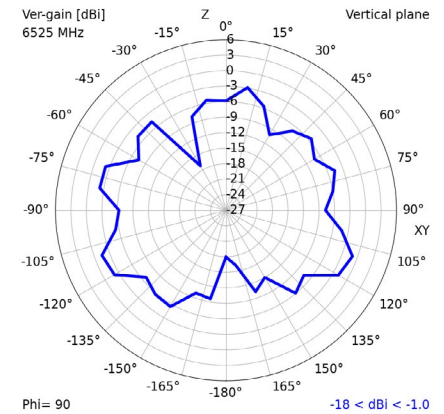
6525 MHz XY



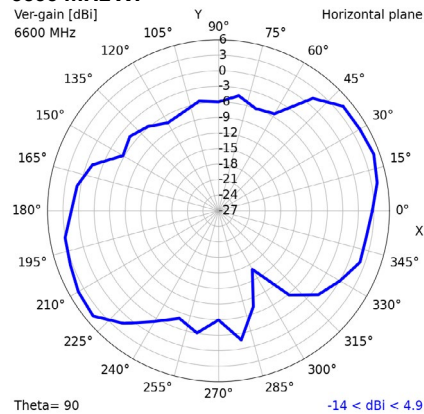
XZ



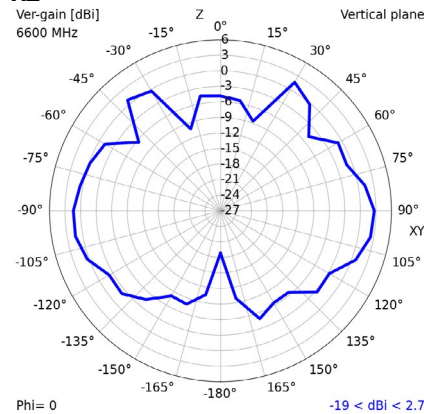
YZ



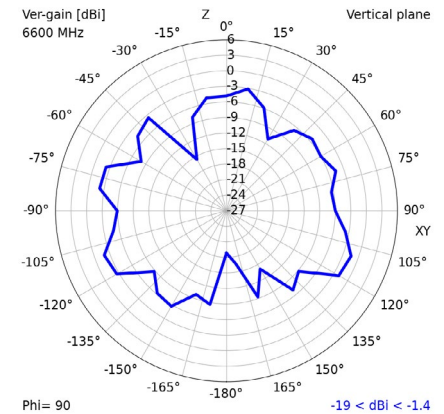
6600 MHz XY



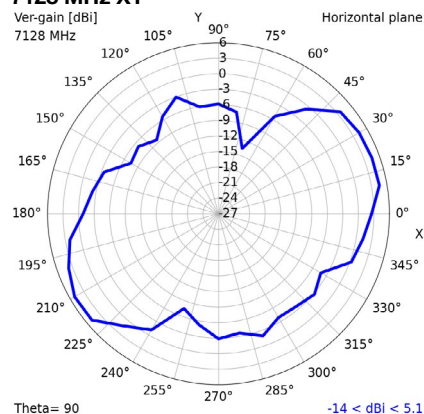
XZ



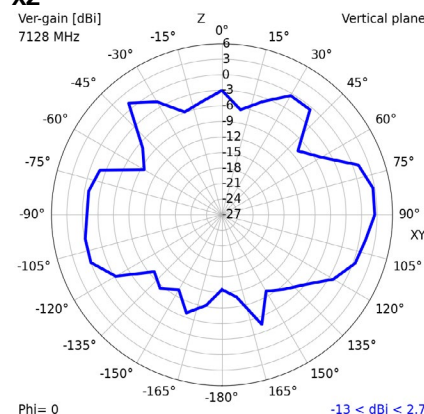
YZ



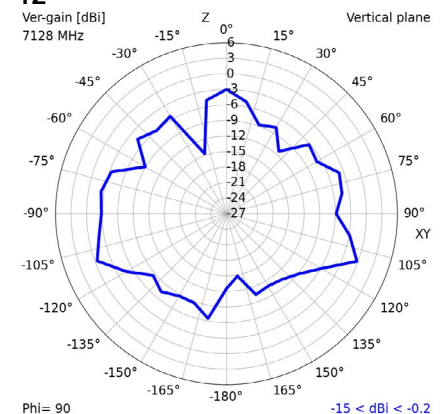
7128 MHz XY



XZ



YZ



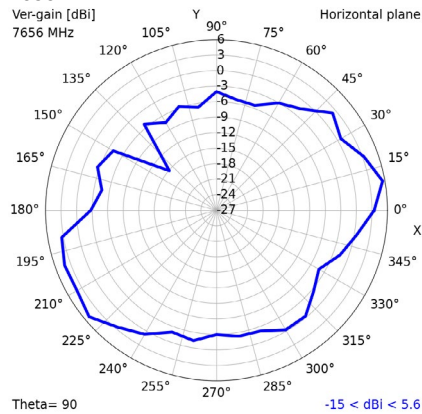


Tango 59

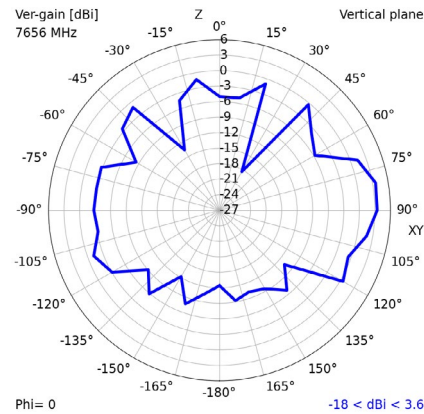
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

2D Radiation Plots

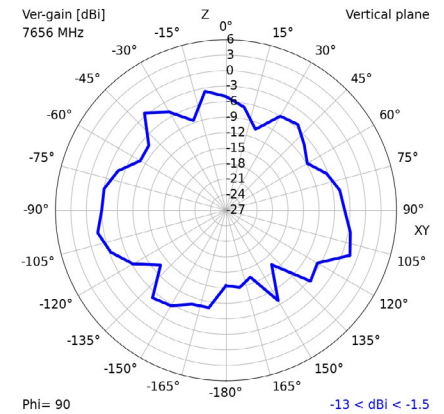
7656 MHz XY



XZ



YZ



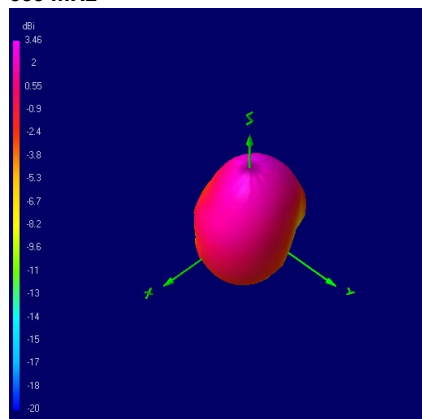


Tango 59

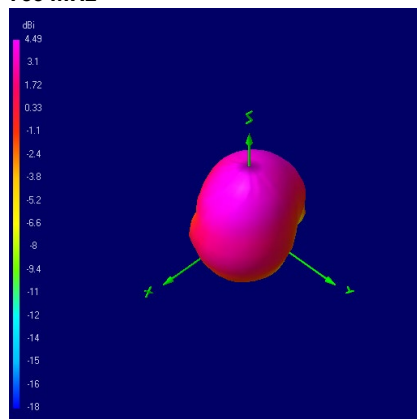
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

3D Radiation Plots

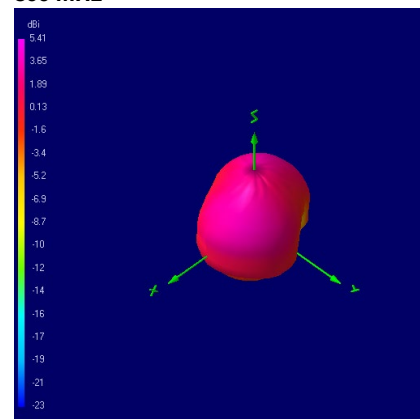
600 MHz



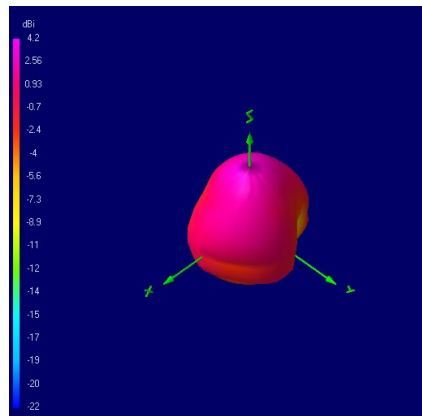
700 MHz



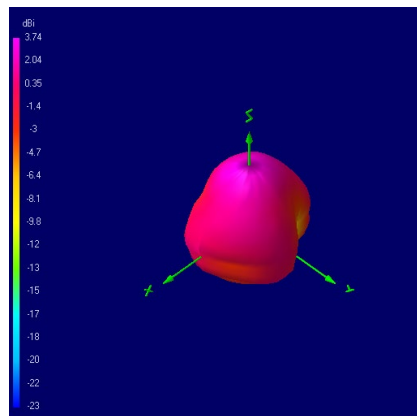
800 MHz



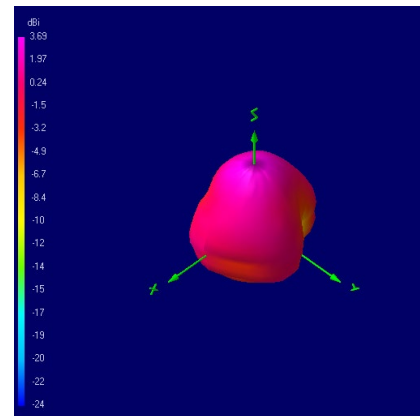
850 MHz



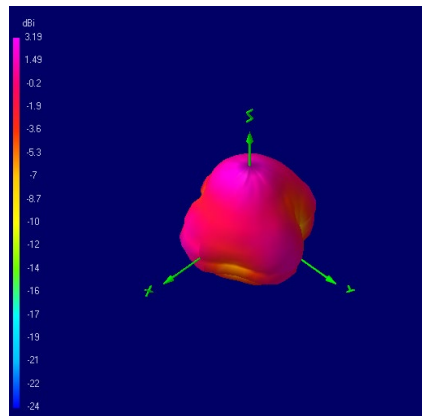
866 MHz



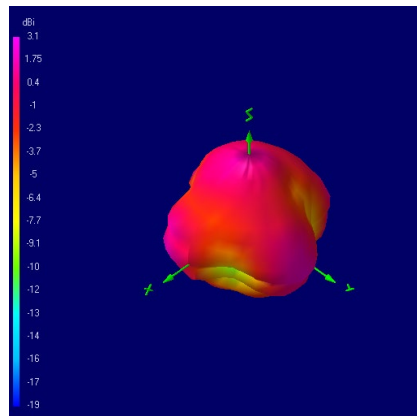
868 MHz



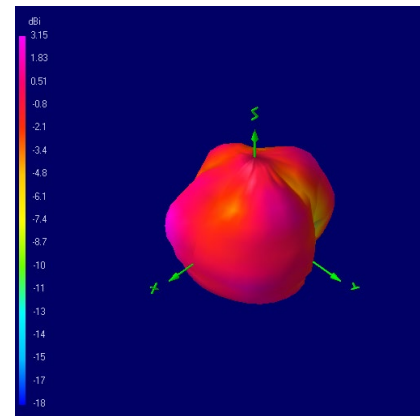
900 MHz



915 MHz



1500 MHz



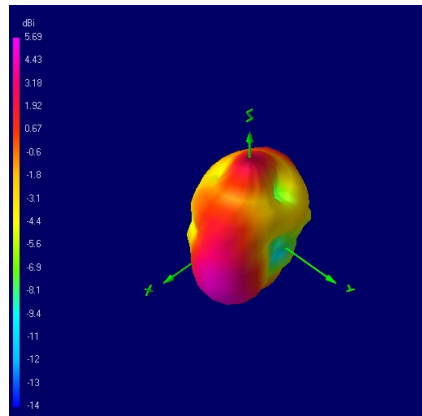


Tango 59

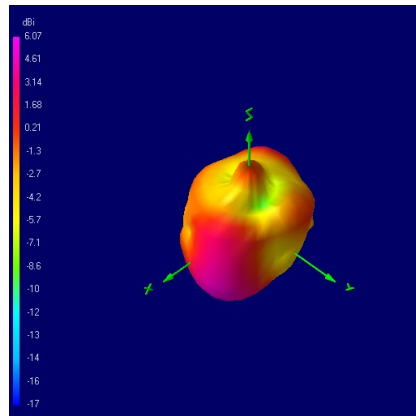
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

3D Radiation Plots

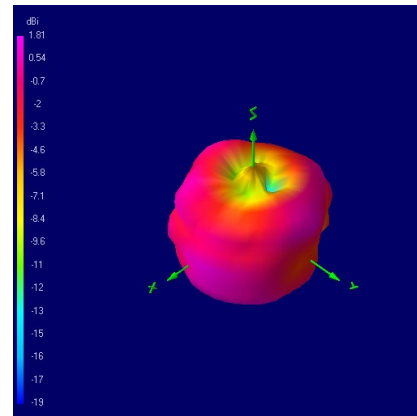
1600 MHz



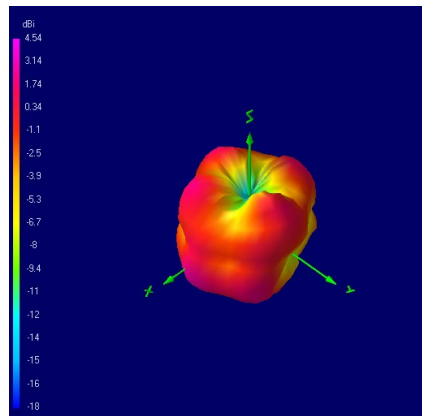
1700 MHz



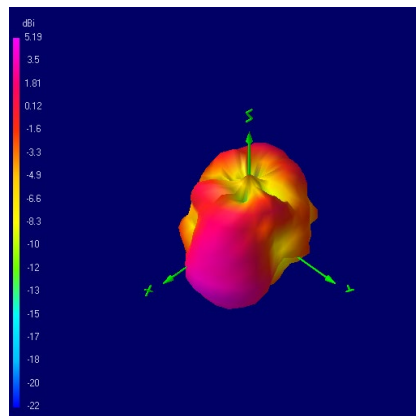
1800 MHz



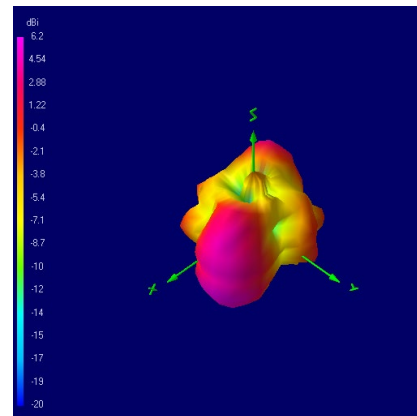
1900 MHz



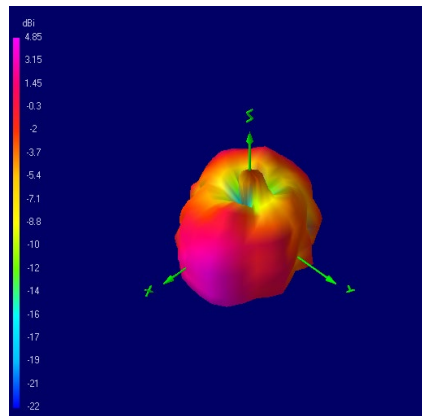
2000 MHz



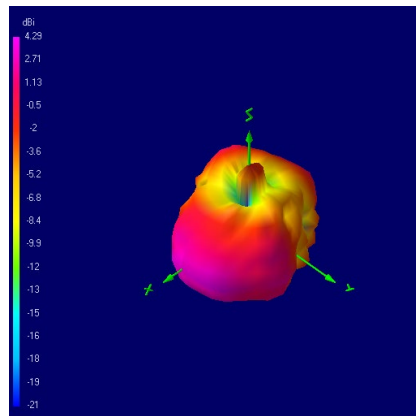
2100 MHz



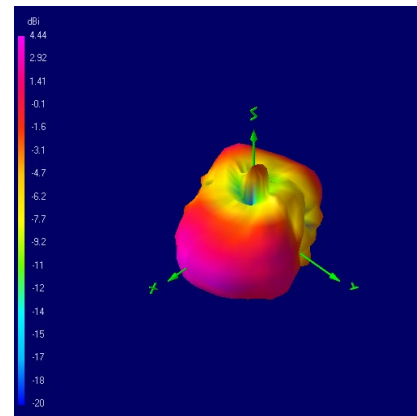
2300 MHz



2400 MHz



2437 MHz

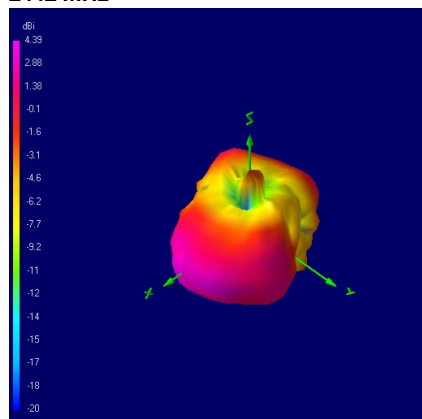


Tango 59

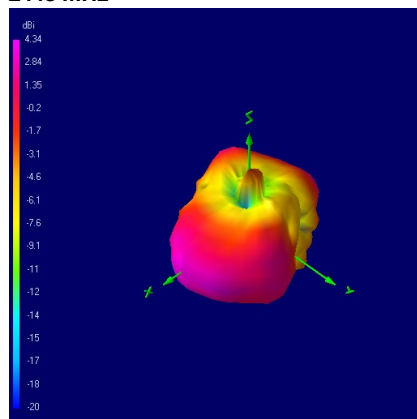
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

3D Radiation Plots

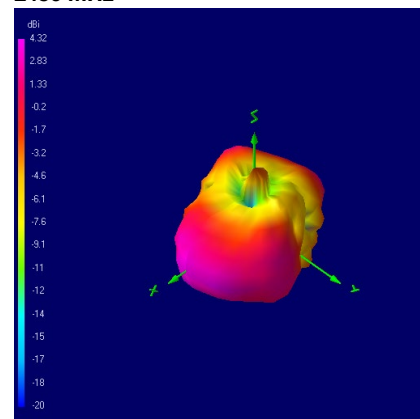
2442 MHz



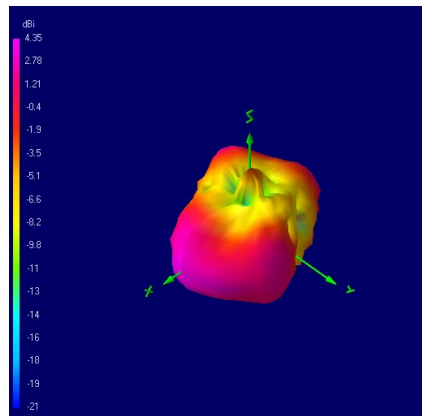
2448 MHz



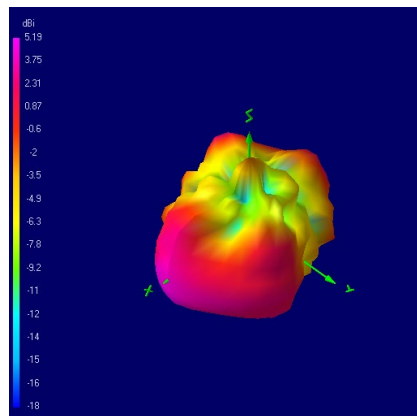
2450 MHz



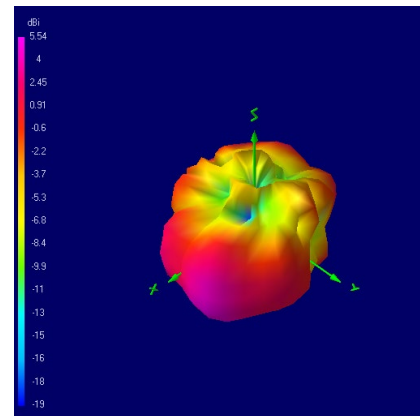
2500 MHz



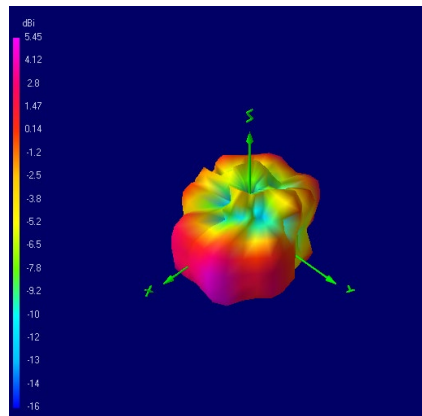
2600 MHz



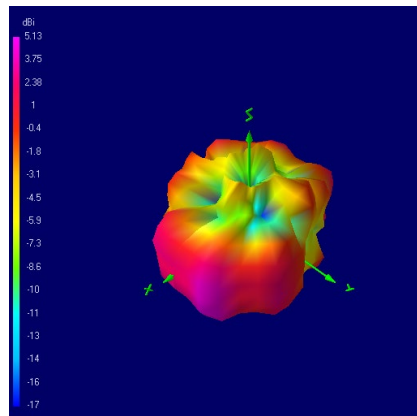
3300 MHz



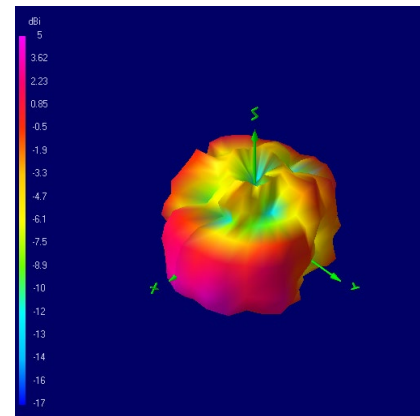
3432 MHz



3500 MHz



3625 MHz



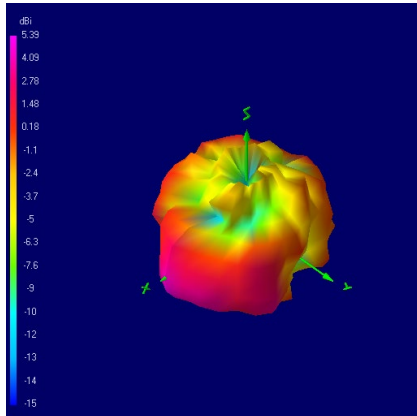


Tango 59

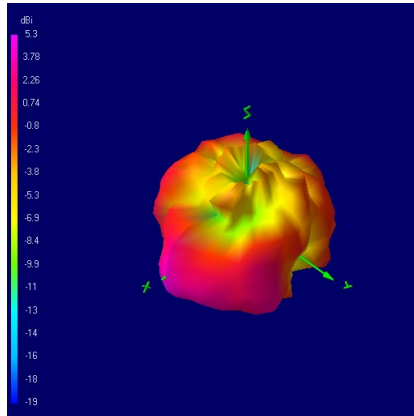
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

3D Radiation Plots

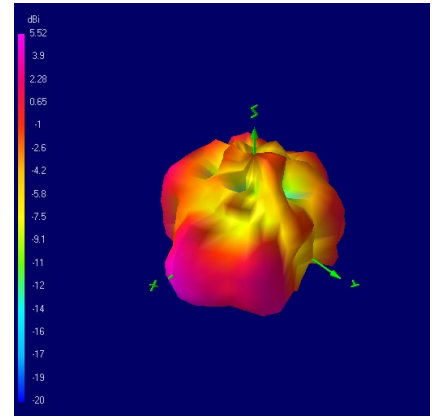
3675 MHz



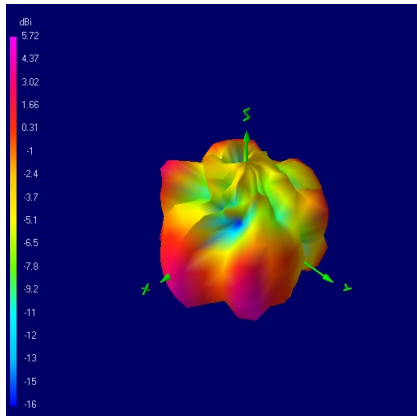
3700 MHz



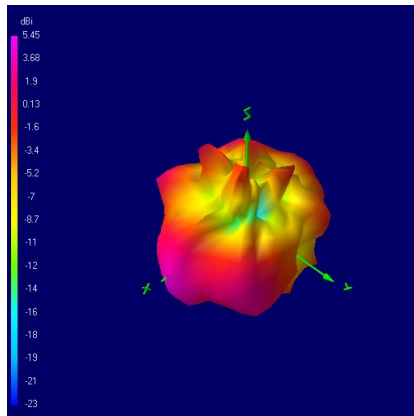
3960 MHz



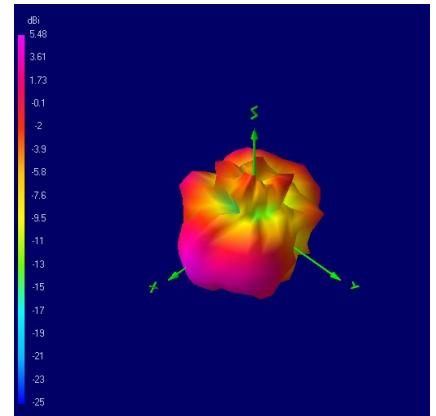
4488 MHz



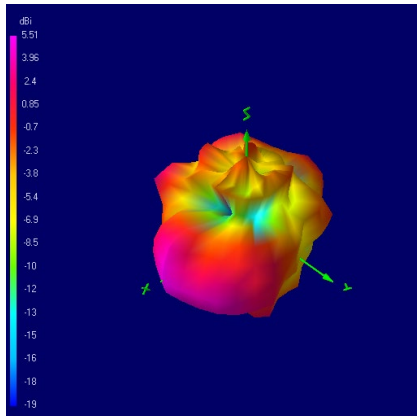
4900 MHz



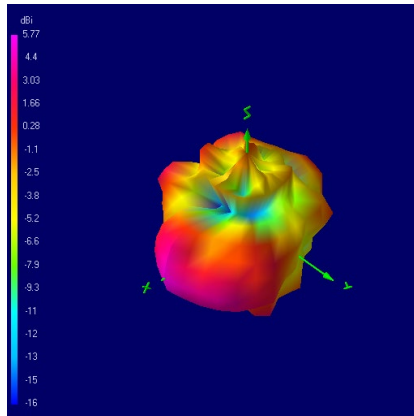
5016 MHz



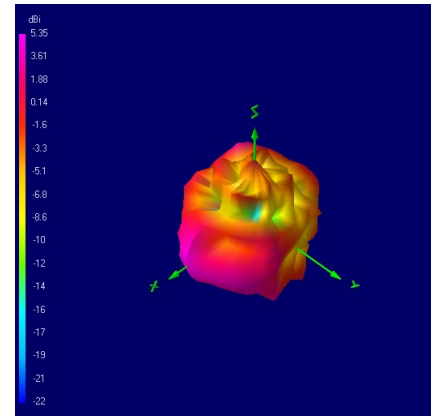
5200 MHz



5250 MHz



5492 MHz



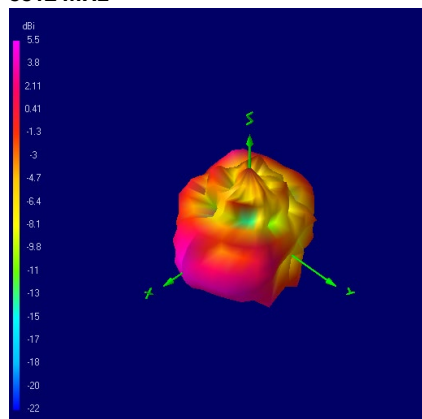


Tango 59

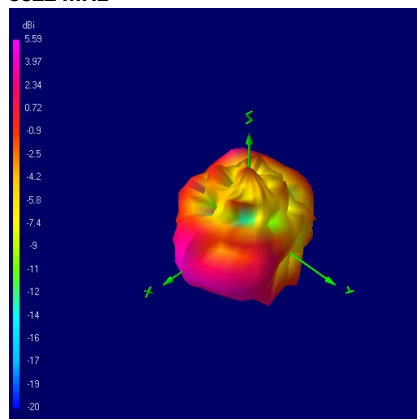
600–8000 MHz Omni Wideband Low-PIM Indoor Ceiling DAS Antenna

3D Radiation Plots

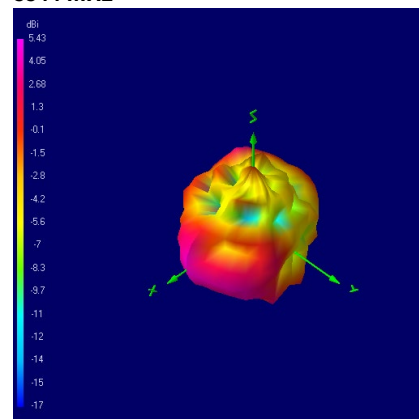
5512 MHz



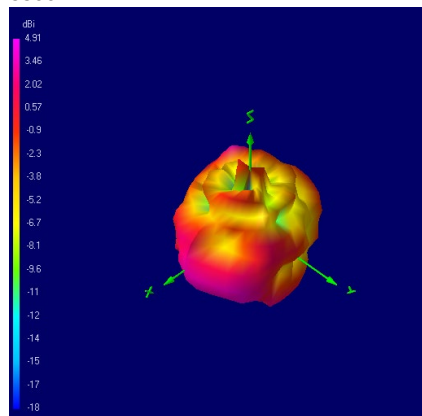
5522 MHz



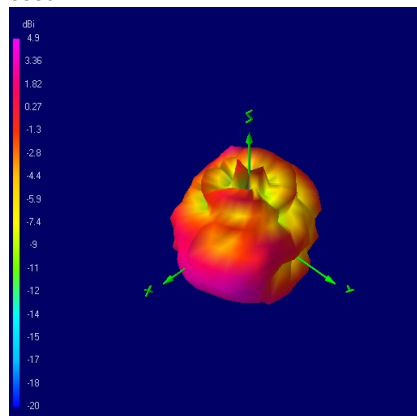
5544 MHz



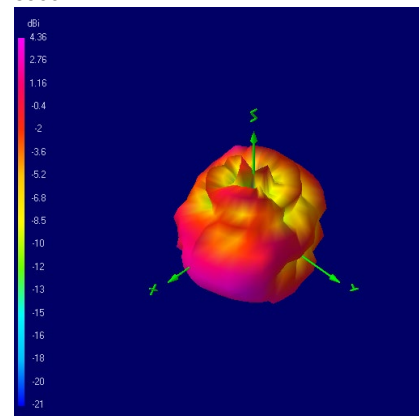
5800 MHz



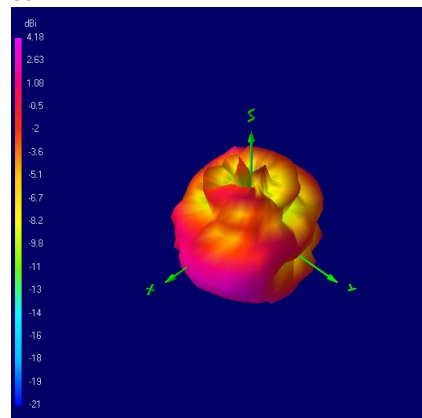
5880 MHz



5900 MHz



5947 MHz



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



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