QuMax for Teltonika RUTX50

INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + WI-FI OMNI ANTENNA + GPS + PLACE TO INSTALL TELTONIKA RUTX50/RUTM51/RUTM54/RUTM55/RUTM16 (ALL-IN-ONE)

QuMax for RUTX50 is a high performance directional antenna designed for use in a variety of wireless communication applications. This all-in-one product consists of multi-band 5G, Wi-Fi and GPS antennas integrated in IP68 (IP67) enclosure. It offers 7.5 dBi gain and wide beamwidth, which makes it suitable for use in both urban and rural environments.
It is also compatible with RUTM51, RUTM54, RUTM55 and RUTM16.
Combining QuMax with RUTX50, RUTM51, RUTM54, RUTM55 or RUTM16 inside the antenna housing gives you complete outdoor solution with mulitple use scenarios such as transportation public, energy, mining IoT and more.

5G | BAND 71 | Wi Fi DUALBAND | GPS | 617-6500MHz | 7 dBi | DIRECTIONAL | IP 68 | -40° TO +80°



5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.617 - 1.0 GHz 1.0 - 3.08 GHz 3.3 - 5.0 GHz 5.0 - 6.5 GHz
MAX. GAIN	0.617 - 1.0 GHz : 6 dBi 1.0 - 3.08 GHz : 8 dBi 3.3 - 5.0 GHz : 6.8 dBi 5.0 - 6.5 GHz : 5.5 dBi
SUPPORTED LTE BANDS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 85, 103, 106, 111, 252, 253, 254, 255, 256
SUPPORTED 5G BANDS	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n24, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n50, n51, n53, n54, n65, n66, n67, n68, n70, n71, n74, n75, n76, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n91, n92, n93, n94, n95, n97, n98, n99, n100, n101, n102, n106, n109, n110, n250, n251, n252, n253, n254, n255, n256
VSWR	<2.00, max <3.00
BEAMWIDTH	80°/80° ±15°
POLARIZATION	X (+-45degrees)
IMPEDANCE	50 Ω
CONNECTOR	4x SMA
CABLE TYPE	RG316

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WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.40 - 2.50 GHz 5.0 - 7.125 GHz
MAX. GAIN	2.40 - 2.50 GHz : 6 dBi 5.0 - 7.125 GHz : 7.5 dBi
VSWR	<1.70, max <2.00
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω
CONNECTOR	2x RPSMA
CABLE TYPE	RG316

GPS ACTIVE ANTENNA SPECIFICATION

FREQUENCY	1.56 – 1.61 GHz
VSWR	< 2
GAIN	3 dBi
GAIN 3V	28 dBi
DC POWER INPUT	2.5 V ~ 6.5 V
POWER CONSUMPTION	2.5-6.5mA
IMPEDANCE	50 Ω
POLARIZATION	RHCP (right hand circularly polarized)

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CONNECTOR	1x SMA
CABLE TYPE	RG174

MECHANICAL SPECIFICATION

MATERIALS	ASA, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP68
DIMENSIONS	486 x 292 x 210 ± 10 mm 19.13 x 11.49 x 8.23 ± 0.39 inch
NET WEIGHT	3,77 ± 0.2 kg 8.31 ± 0.44 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
ENCLOSURE RECOMMENDED TIGHTENING TORQUE	0.6 - 0.8 Nm

MOUNTING KIT

DIMENSIONS	9.9 x 10.5 x 14.8 ± 0.5 cm 3.9 x 4.13 x 5.83 ± 0.19 inch
REGULATION RANGE	+/- 30°
MAST DIAMETER RANGE	25 - 66mm 0.98-2.60 inch
MATERIAL	Polyamide with fiberglass + galvanized steel U-Bolts
MOUNTING PLACE	Wall or ceiling or mast

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FREQUENCY BANDS

LTE / 4G

617 MHz

1	2	3	4	5	6	7
8	9	10	11	12	13	14
17	18	19	20	21	22	23
24	25	26	27	28	29	30
32	33	34	35	36	37	38
39	40	41	42	43	44	45
46	47	48	49	50	51	52
53	54	65	66	67	68	69
70	71	74	75	76	85	103
106	111	252	253	254	255	256

6500M Hz

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5G

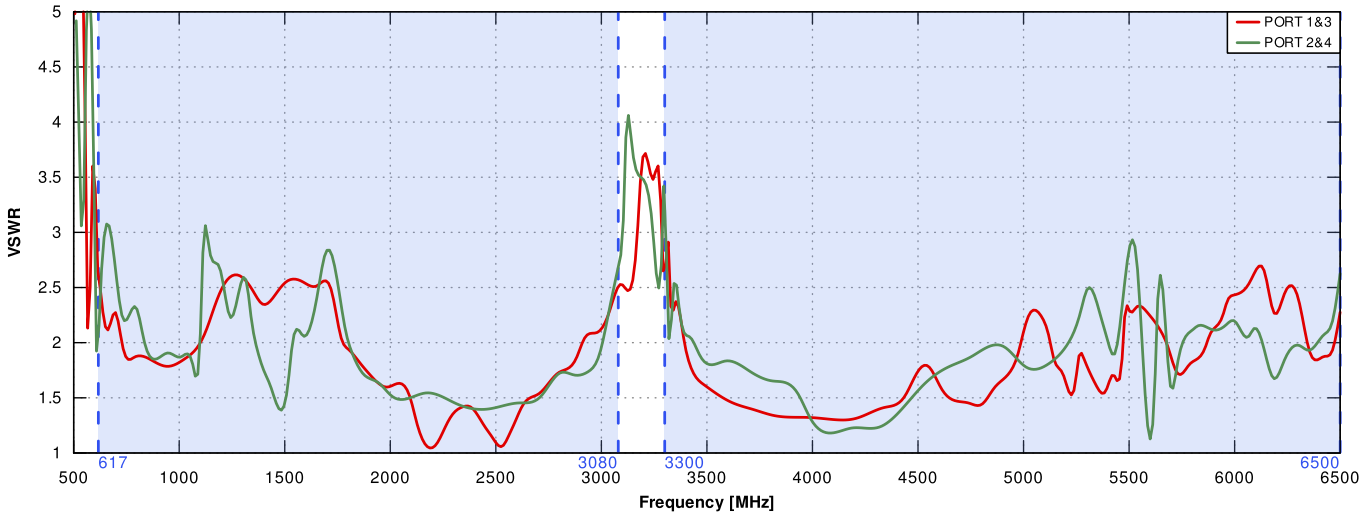
617 MHz – 6500 MHz

n1	n2	n3	n5	n7	n8	n12
n13	n14	n18	n20	n24	n25	n26
n28	n29	n30	n34	n38	n39	n40
n41	n46	n47	n48	n50	n51	n53
n54	n65	n66	n67	n68	n70	n71
n74	n75	n76	n77	n78	n79	n80
n81	n82	n83	n84	n85	n86	n89
n90	n91	n92	n93	n94	n95	n97
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n256						

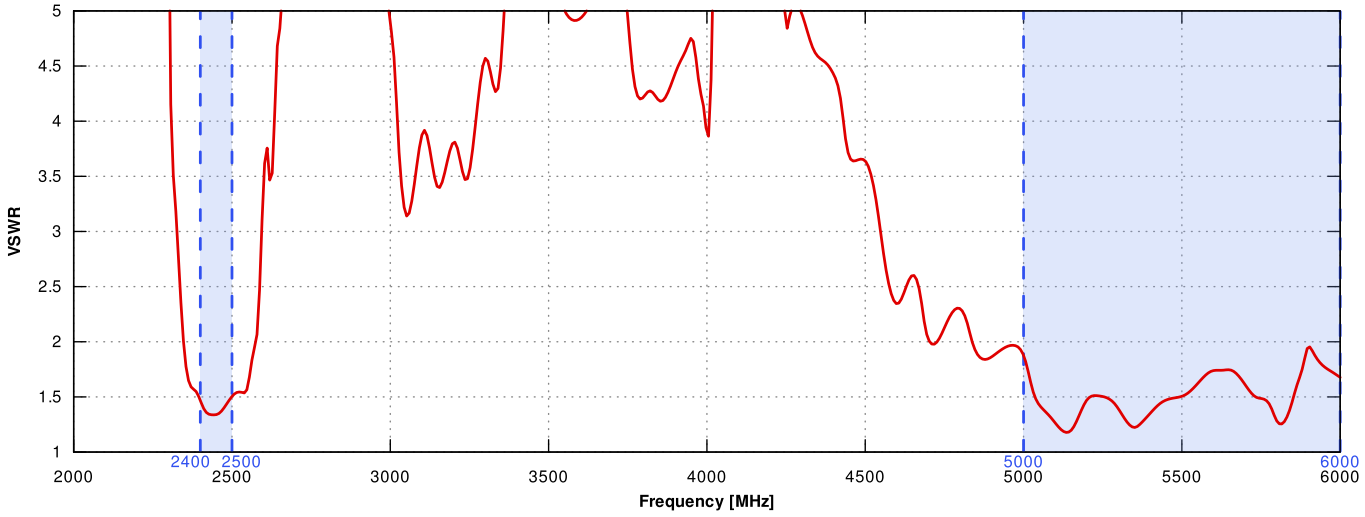
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PLOTS

VSWR for 5G/LTE antenna

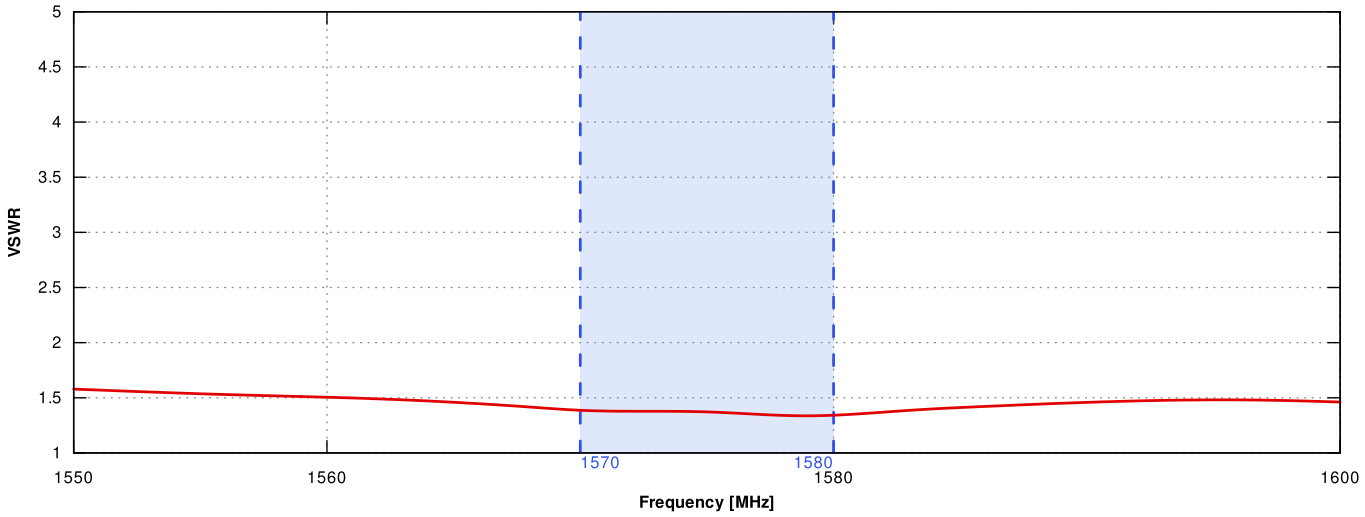


VSWR for Wi-Fi antenna

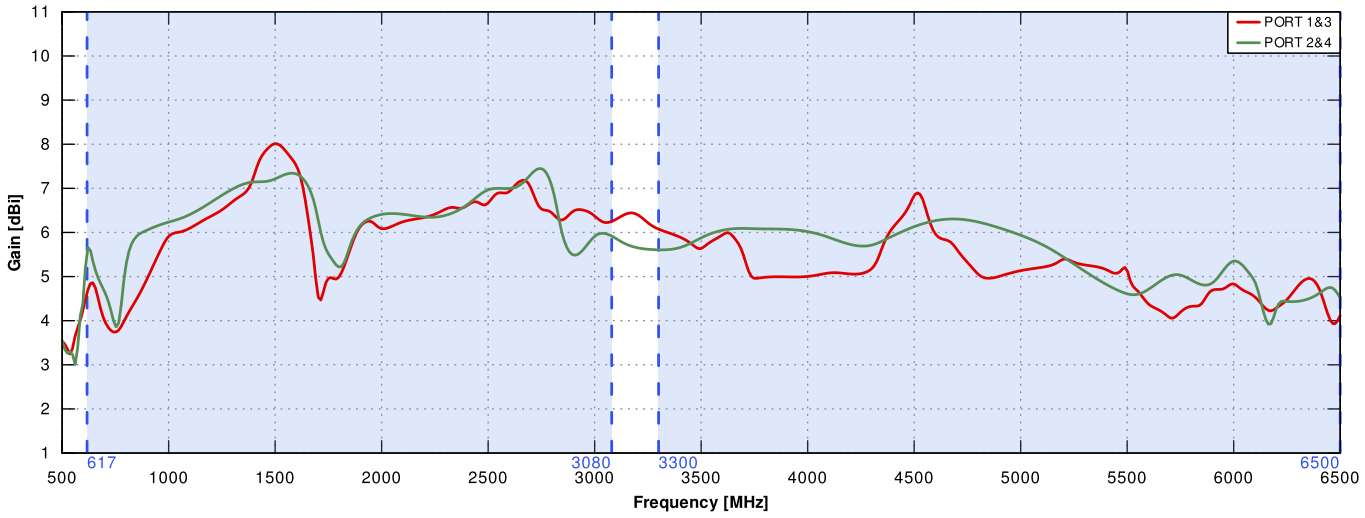


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VSWR for GPS antenna

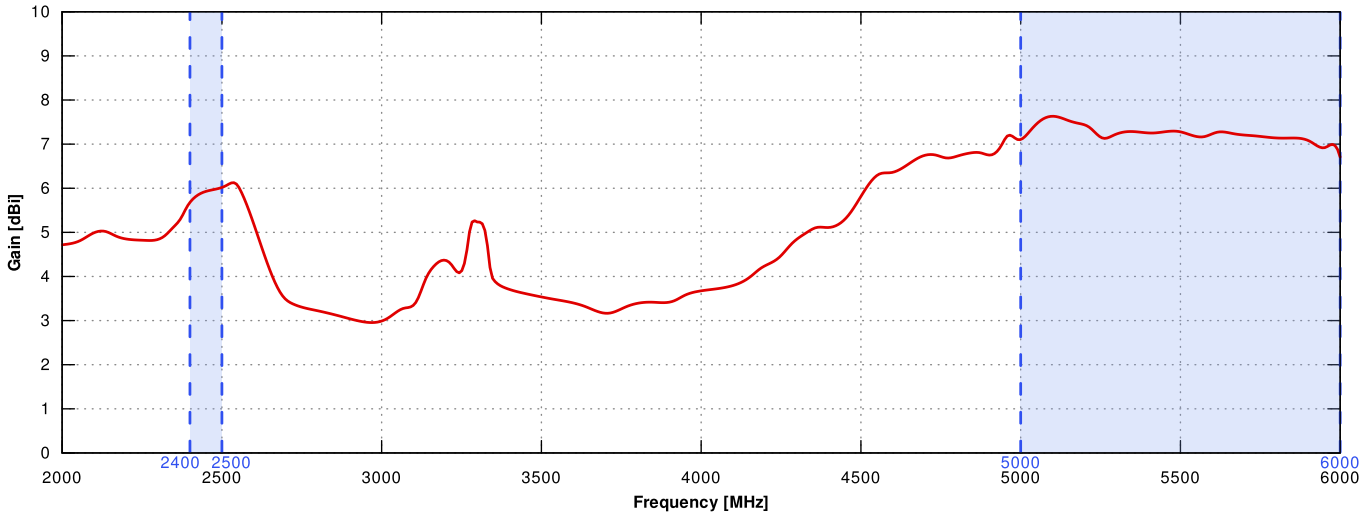


Gain for 5G/LTE antenna



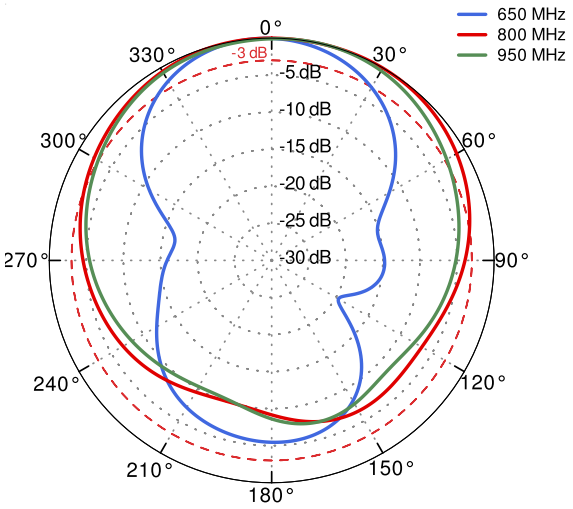
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Gain for Wi-Fi antenna

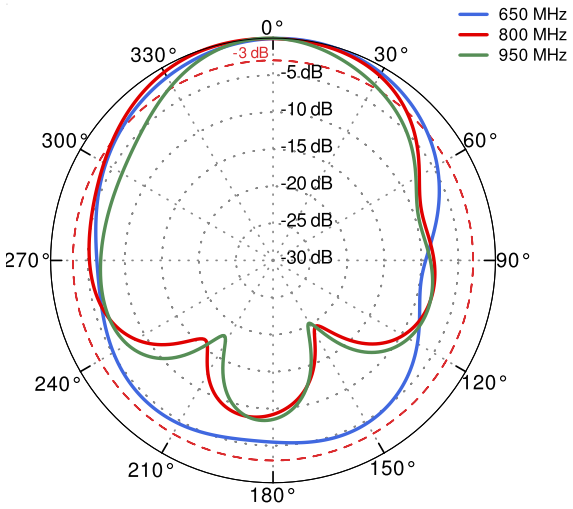


PORT 1&3 - 5G/LTE from 650MHz to 950MHz

ELEVATION



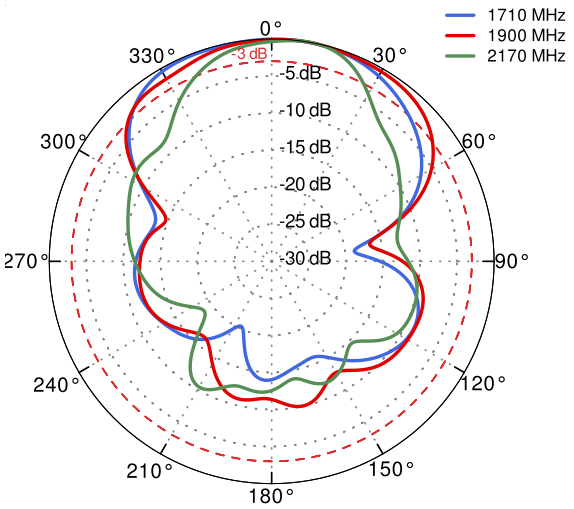
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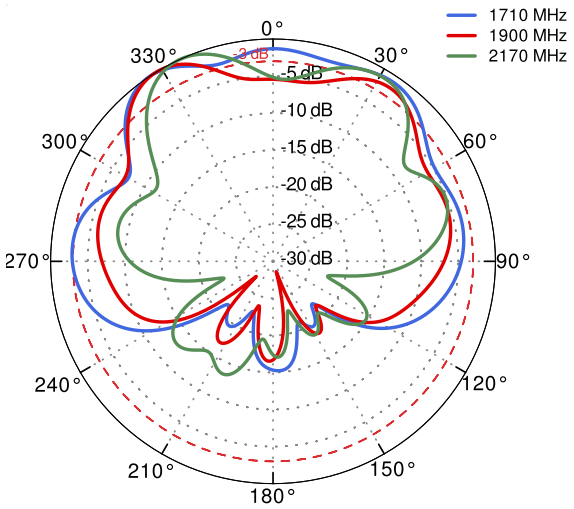
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PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION

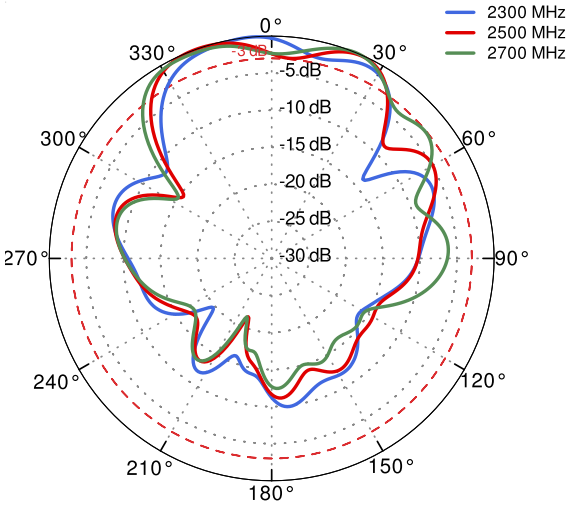


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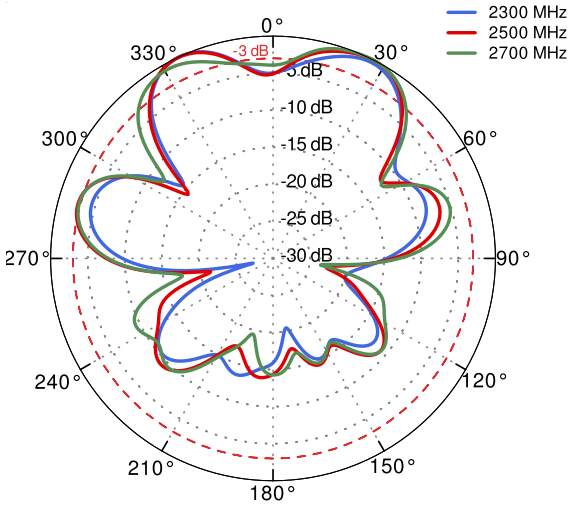


PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION



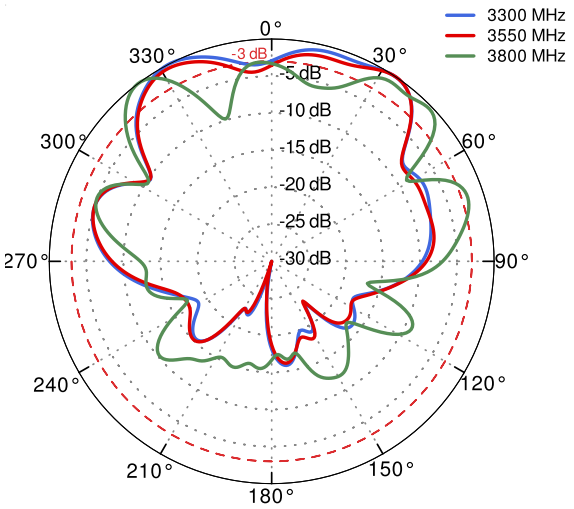
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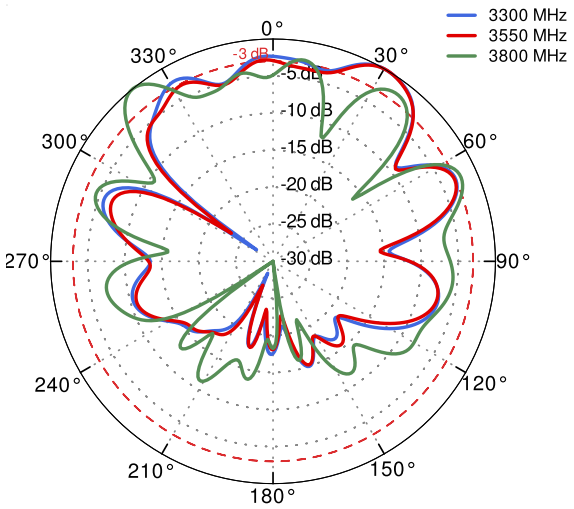
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PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz

ELEVATION

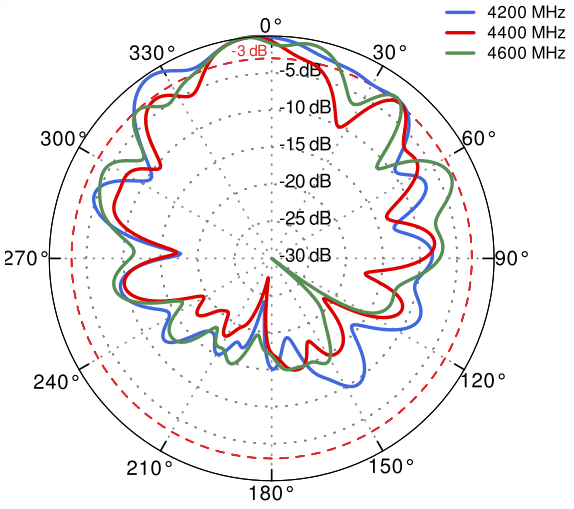


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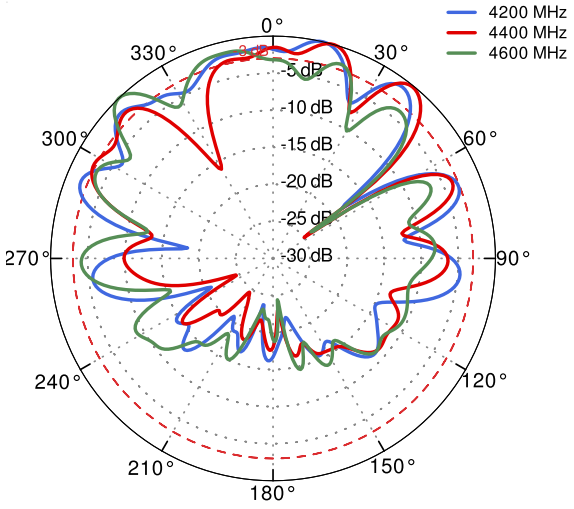


PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz

ELEVATION



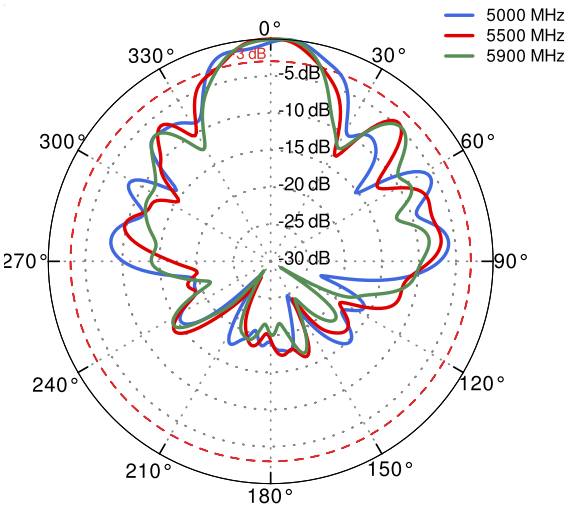
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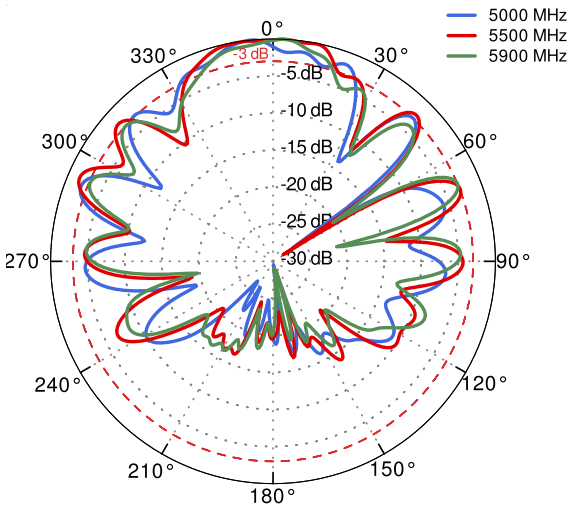
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PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz

ELEVATION

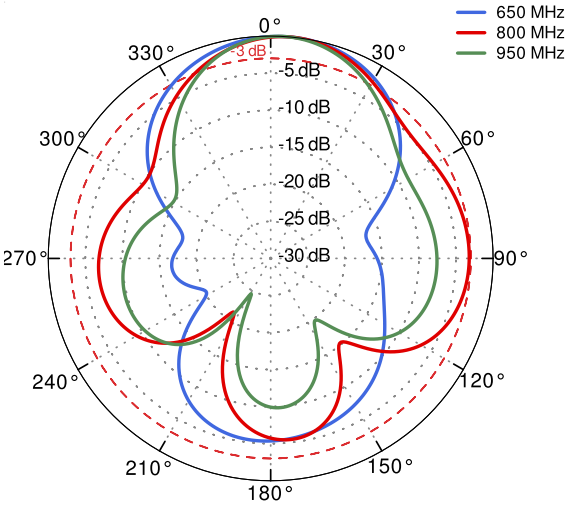


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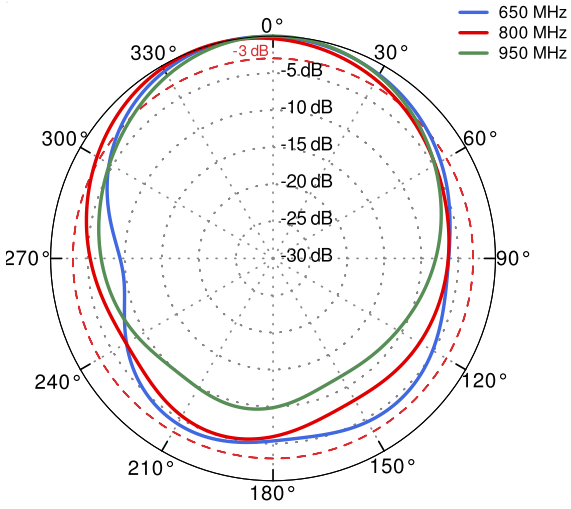


PORT 2&4 - 5G/LTE from 650MHz to 950MHz

ELEVATION



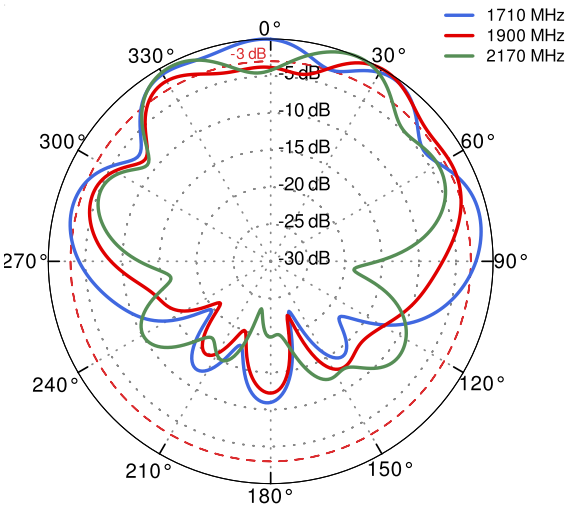
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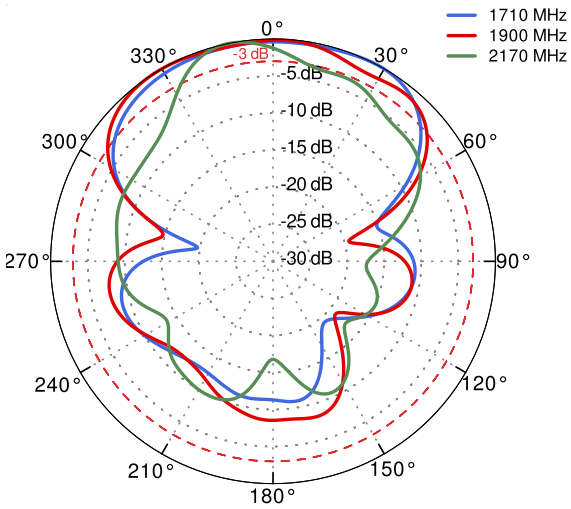
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PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION

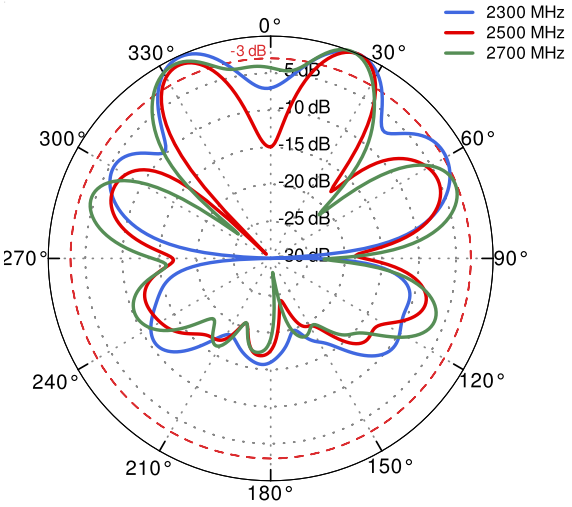


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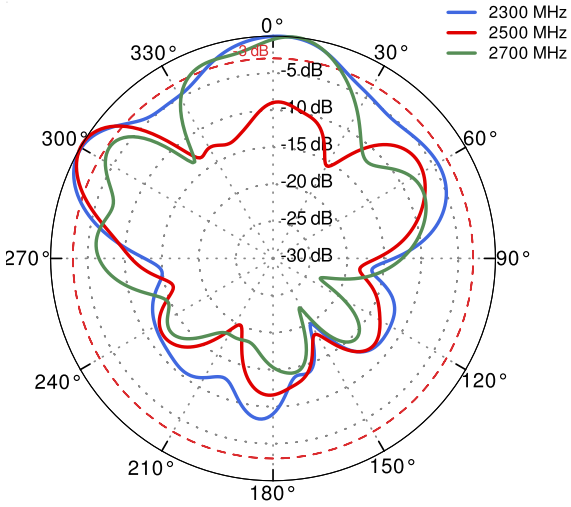


PORT 2&4 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION



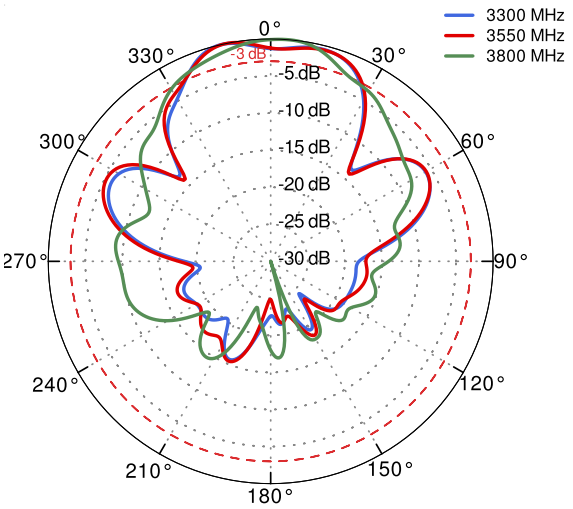
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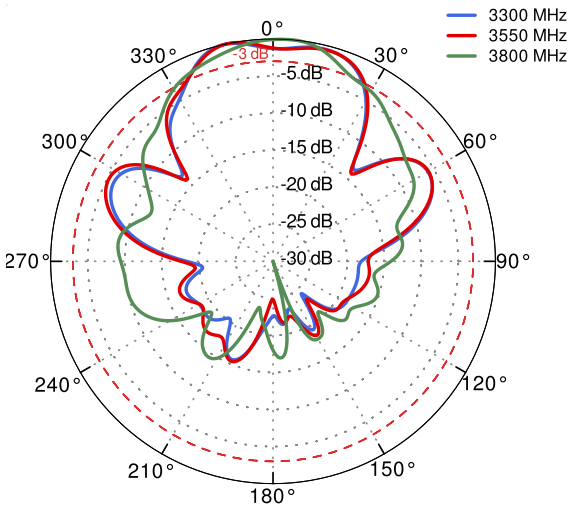
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PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz

ELEVATION

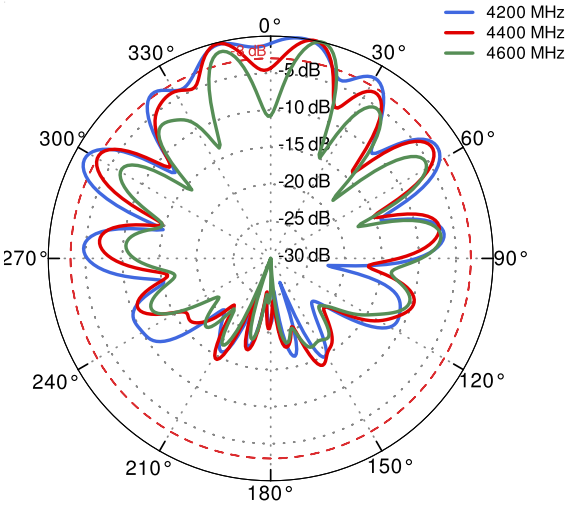


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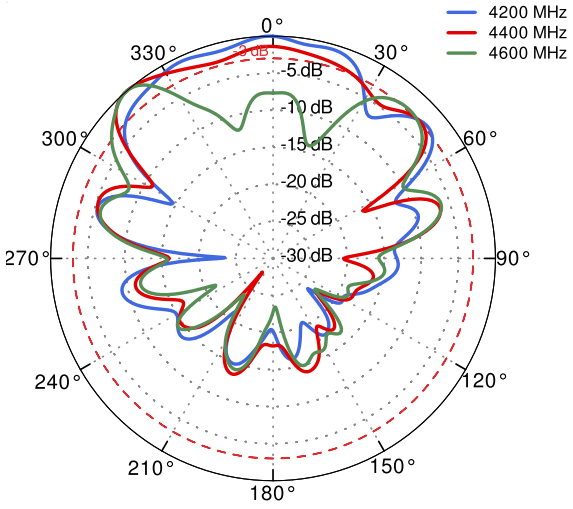


PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz

ELEVATION



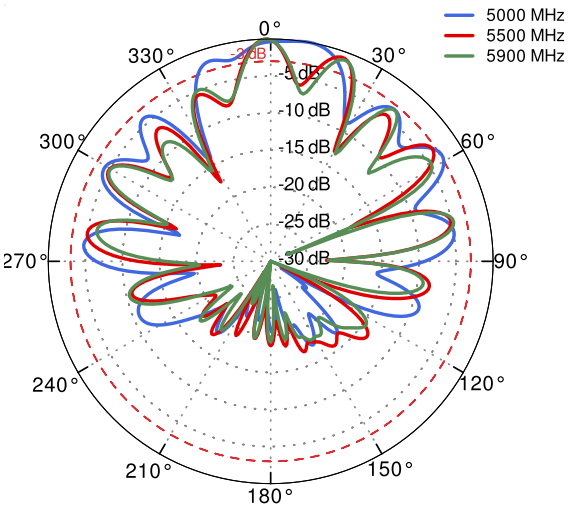
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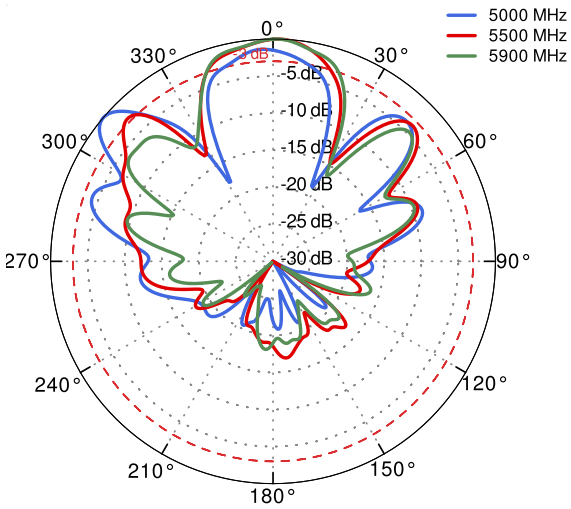
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PORT 2 - 5G/LTE from 5.0GHz to 5.9GHz

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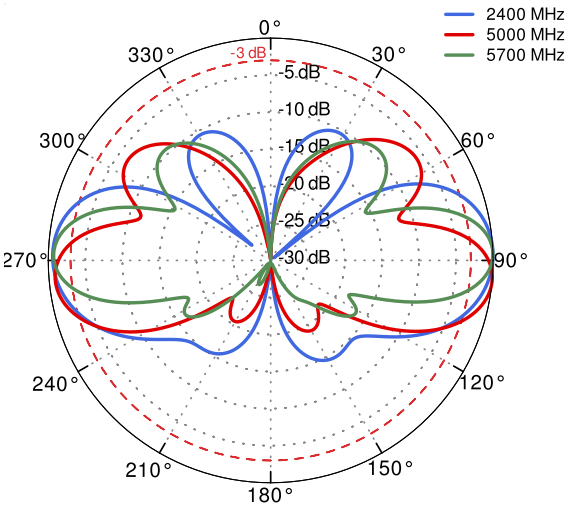


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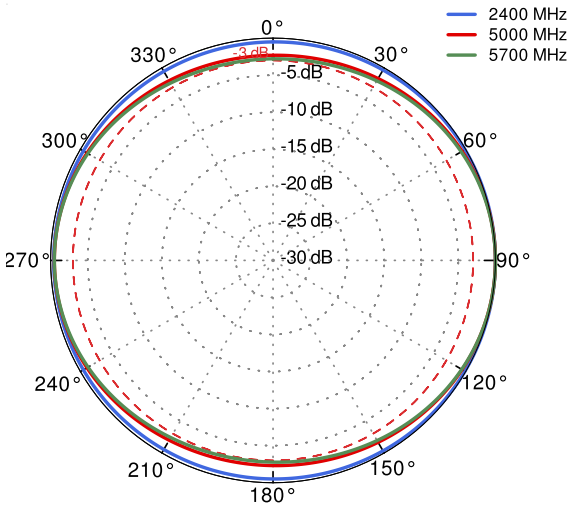


Wi-Fi 2.4GHz and 5GHz

ELEVATION

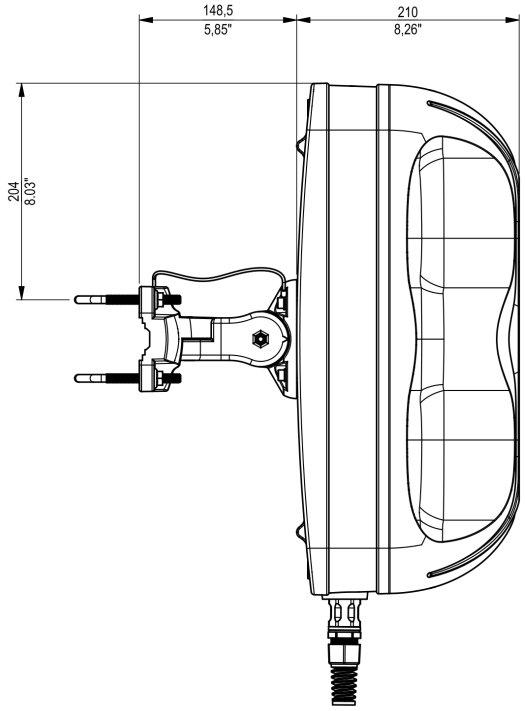


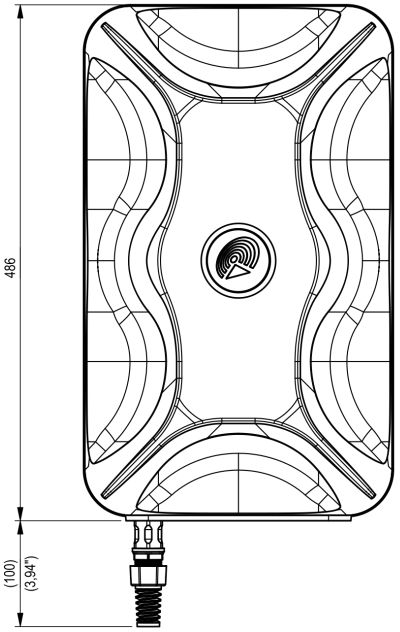
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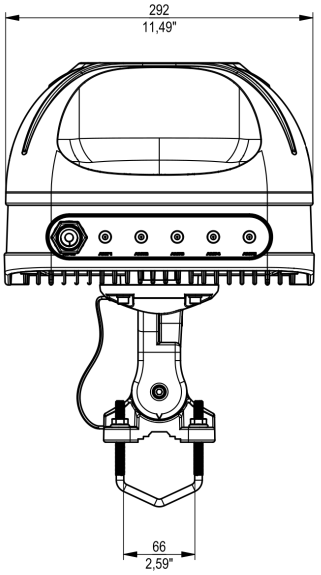


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DIMENSIONS







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