

**750 MHz / 8000 MHz UWB log-periodic antenna**

**General information**

Planar ultra-wideband log-periodic antenna is used for various applications including laboratory measurements, spectrum monitoring, remote sensing, telemetry system etc.

**Typical applications**

ISM, RFID, IoT (Sigfox, LoRa), LP-WAN, Smart meters, LTE, 5G, UMTS, GSM, UWB, drone control

**Electrical data**

Antenna type	Log-periodic antenna	
5G bands	1, 2, 3, 5, 8, 18, 25, 26, 34, 39, 65, 66, 70, 80 - 82, 84, 86, 89, 95, 98	
4G bands	1 - 6, 8 -10, 18 - 20, 23, 25 - 27, 33 - 37, 39, 65, 66, 70	
Frequency range [MHz]	750...2000	2000...8000
Return loss [dB]	-10	-10
Peak gain [dBi]	2.5...6	4...6
Radiation efficiency [%]	65...75	60...70
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	directional	
Maximum input power [W]	5	

**Mechanical data**

Antenna dimensions [mm]	265 x 150 x 1.6
Connector type <sup>1)</sup>	SMA Female <sup>1)</sup>
Material	FR-4, PTFE Teflon
Weight [g]	90

**Environmental data**

Operating temperature [°C]	-40...+85
Storage temperature [°C]	-40...+85
Ambient relative humidity [%]	0...95
RoHS / REACH compliant	yes / yes

**Additional information**

<sup>1)</sup> Other connector types can be offered on request.

Further customization, electromagnetic simulations and measurements can be offered on request.

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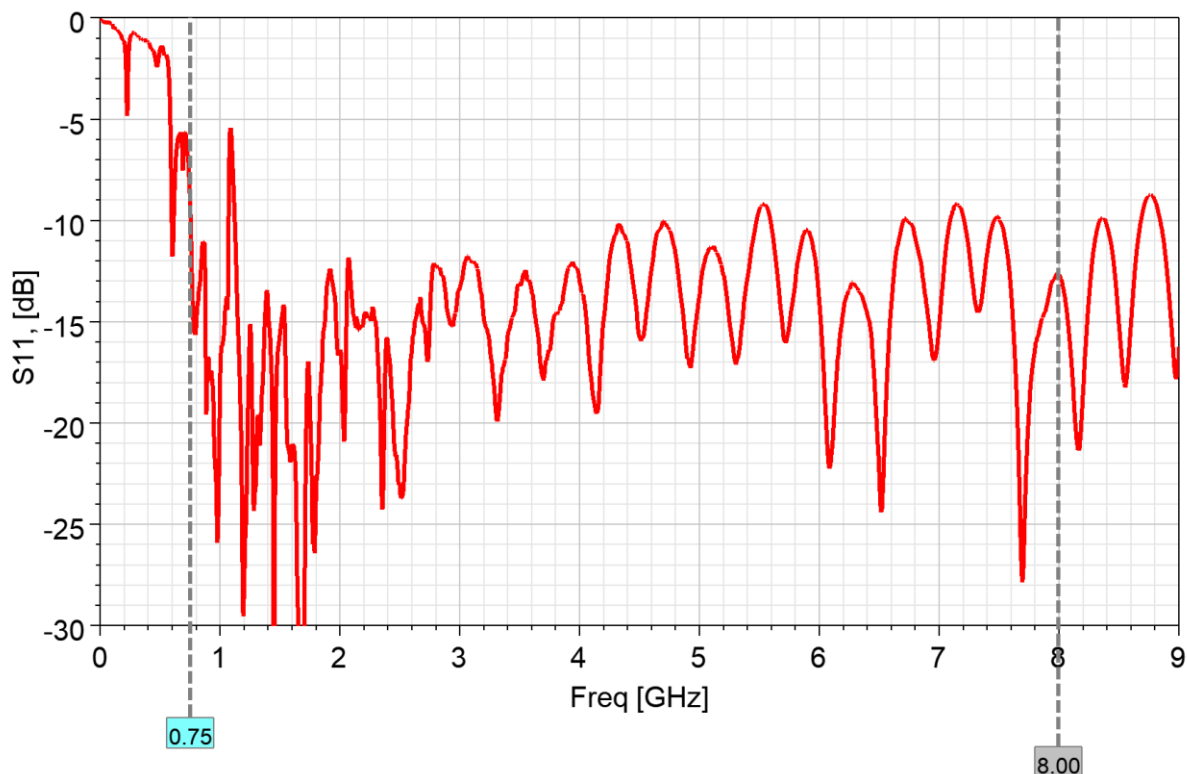
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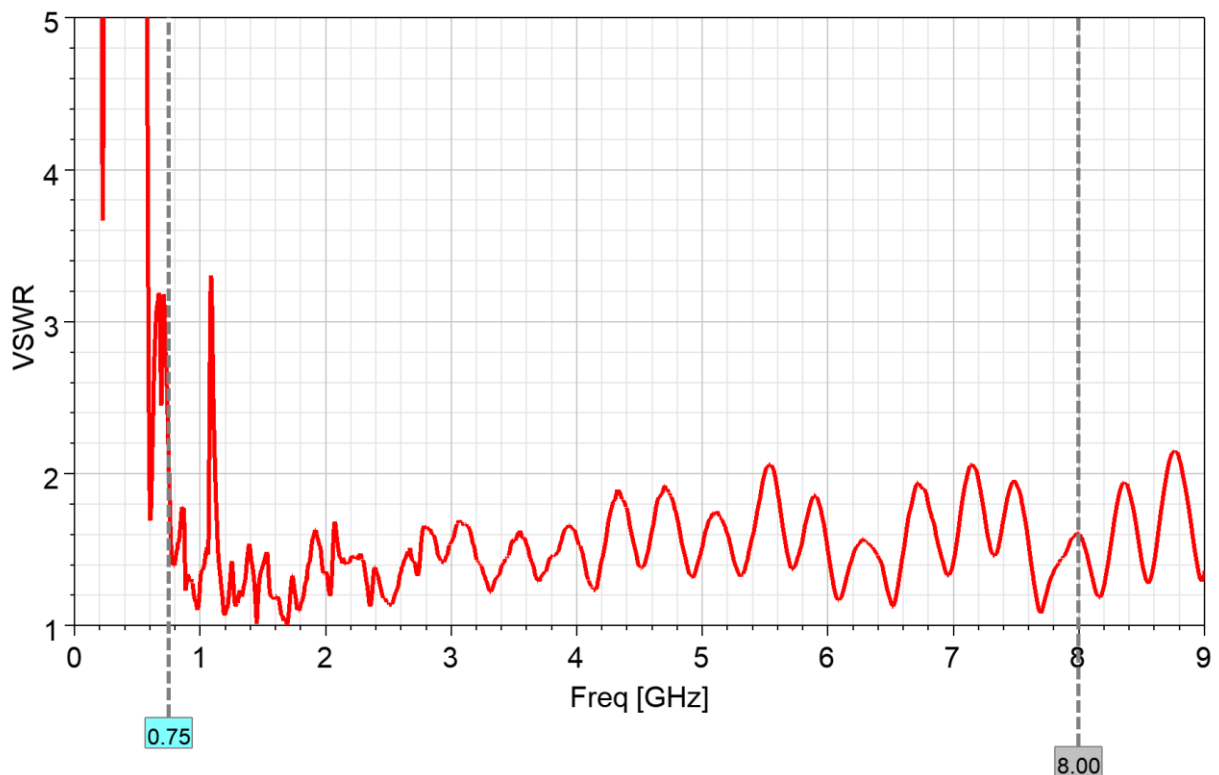
E-Mail: sergey@sevskiy.de  
Internet: www.sevskiy.com

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Measured input impedance matching



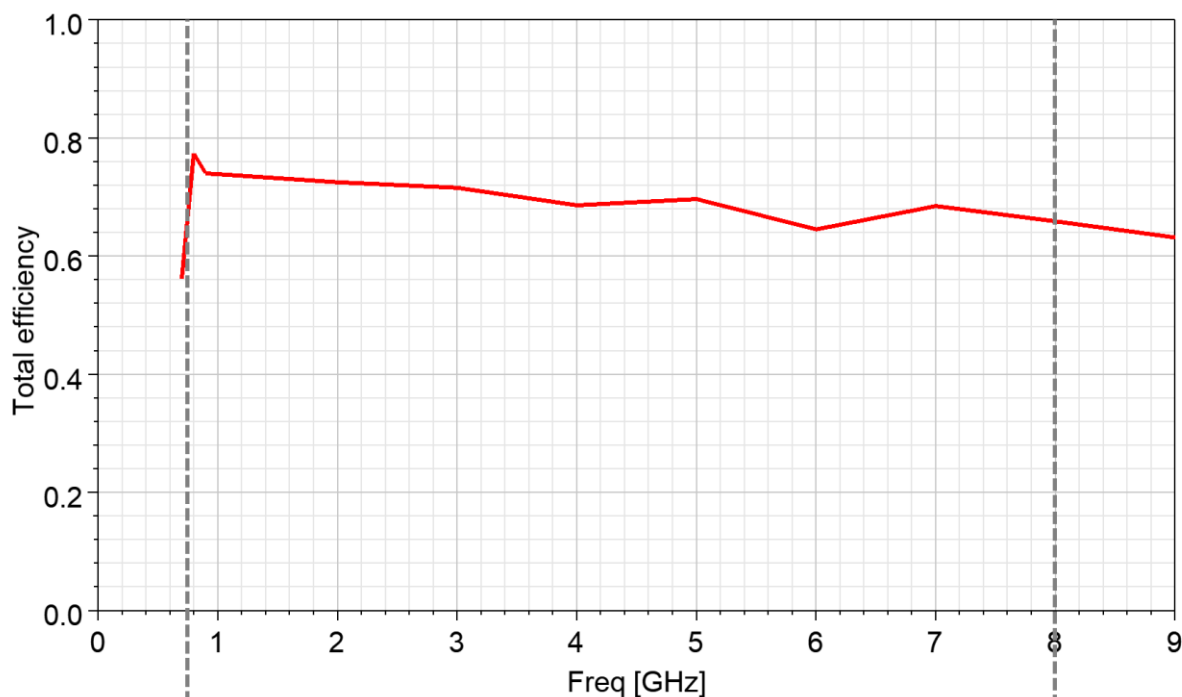
VSWR



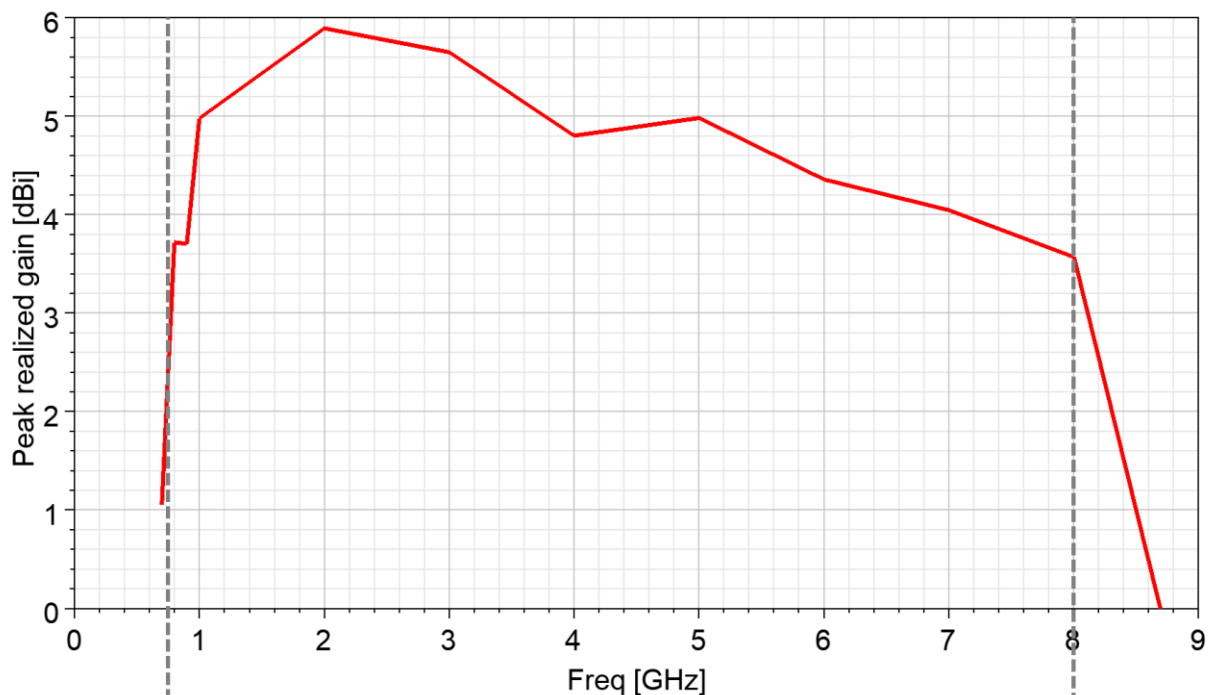
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Radiation efficiency



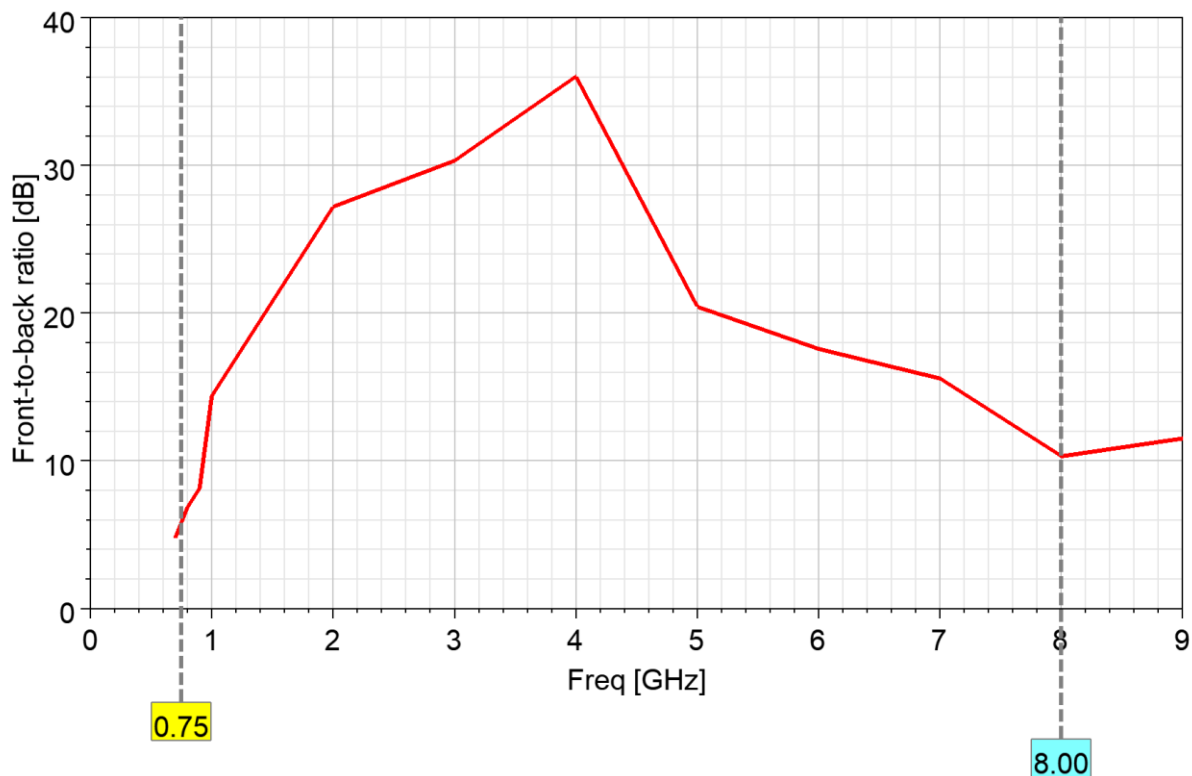
Peak realized gain



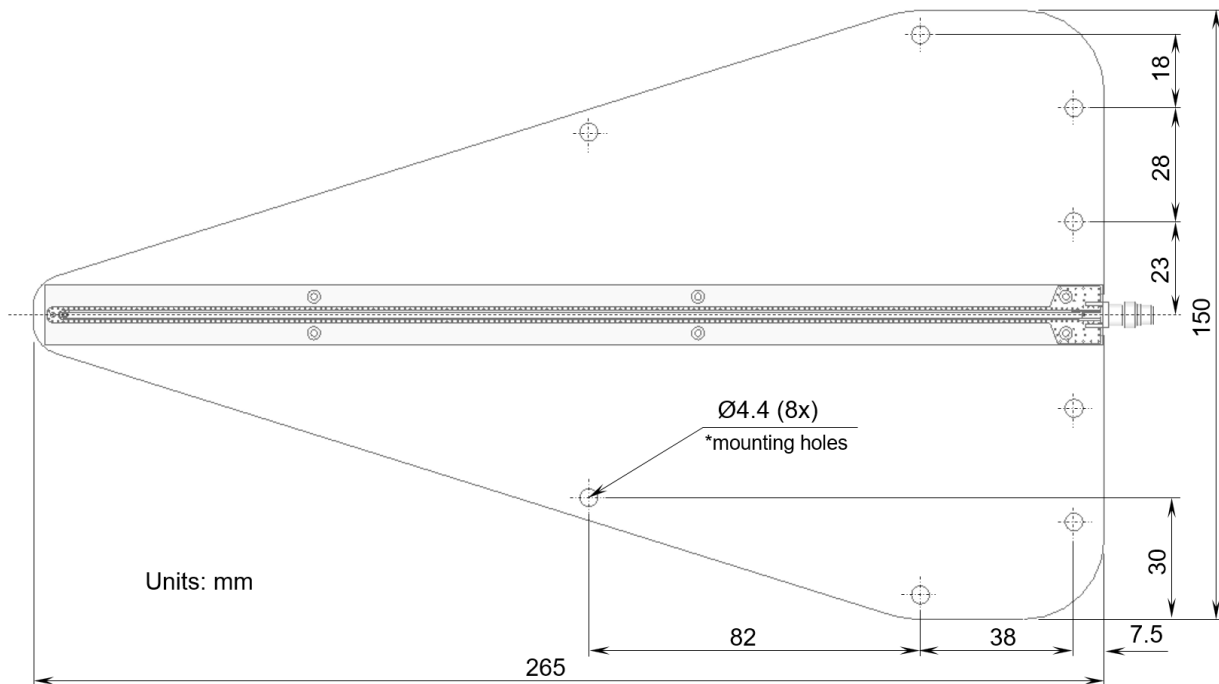
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Front-to-back ratio



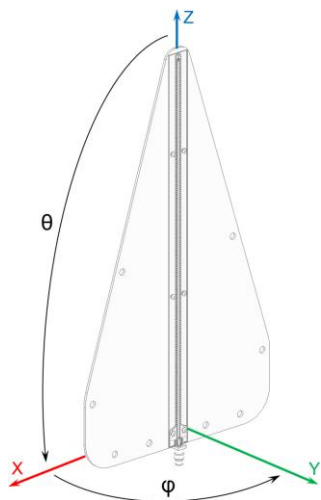
Product dimensions



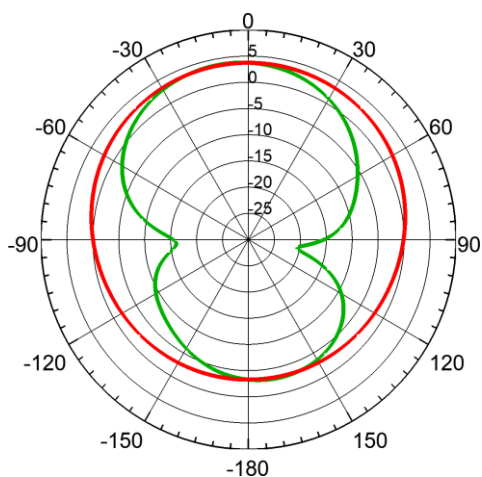
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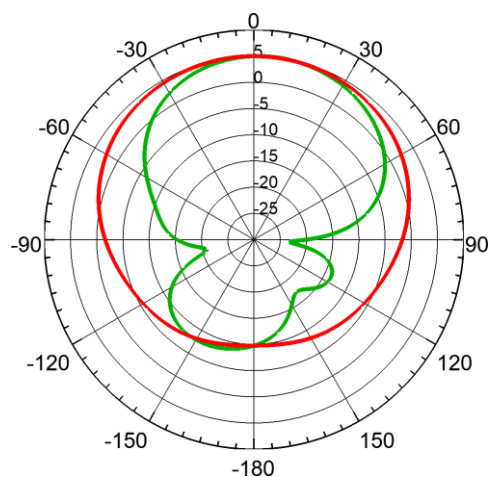
**Radiation pattern (total realized gain)**



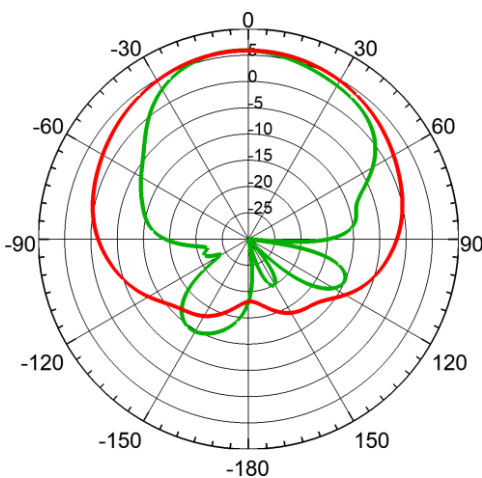
Phi=0°, plane XZ, green curve  
Phi=90°, plane YZ, red curve



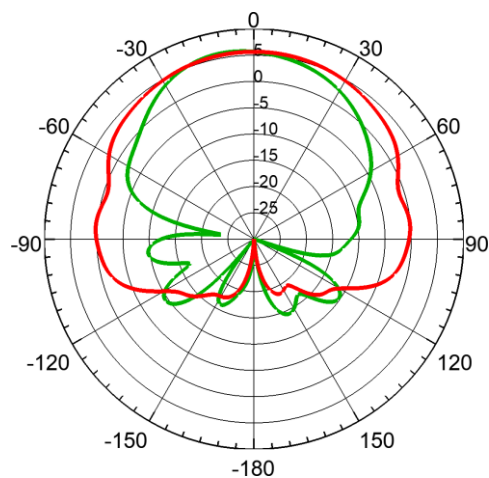
f = 800 MHz



f = 1000 MHz



f = 2000 MHz

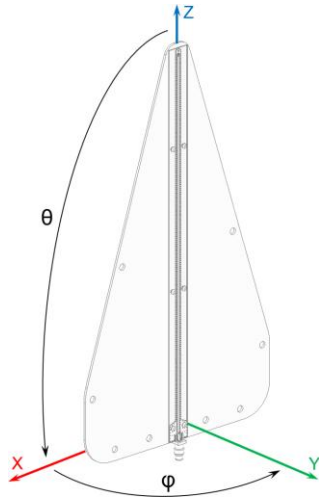


f = 3000 MHz

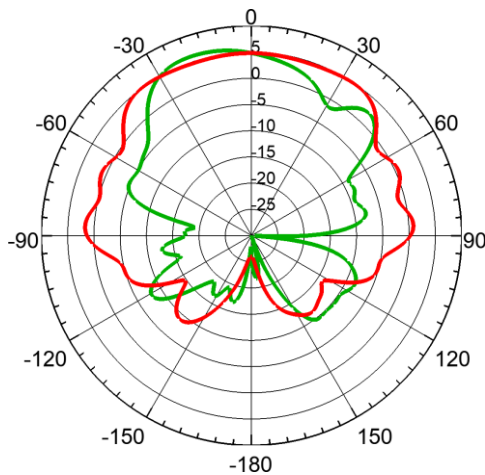
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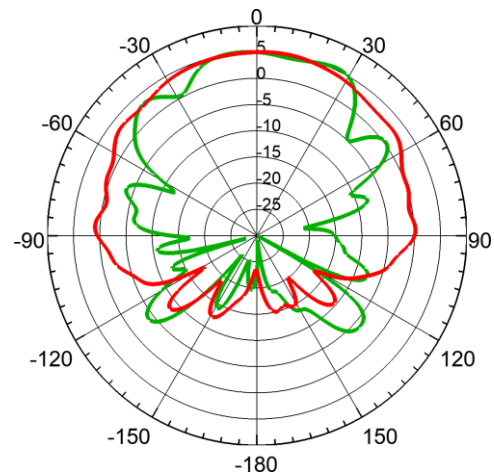
Radiation pattern (total realized gain)



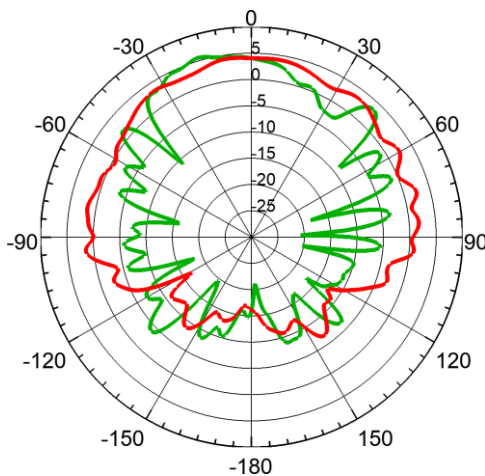
Phi=0°, plane XZ, green curve  
Phi=90°, plane YZ, red curve



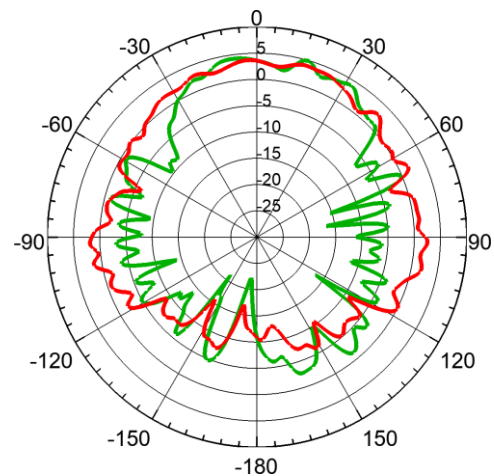
f = 4000 MHz



f = 5000 MHz



f = 7000 MHz



f = 8000 MHz

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