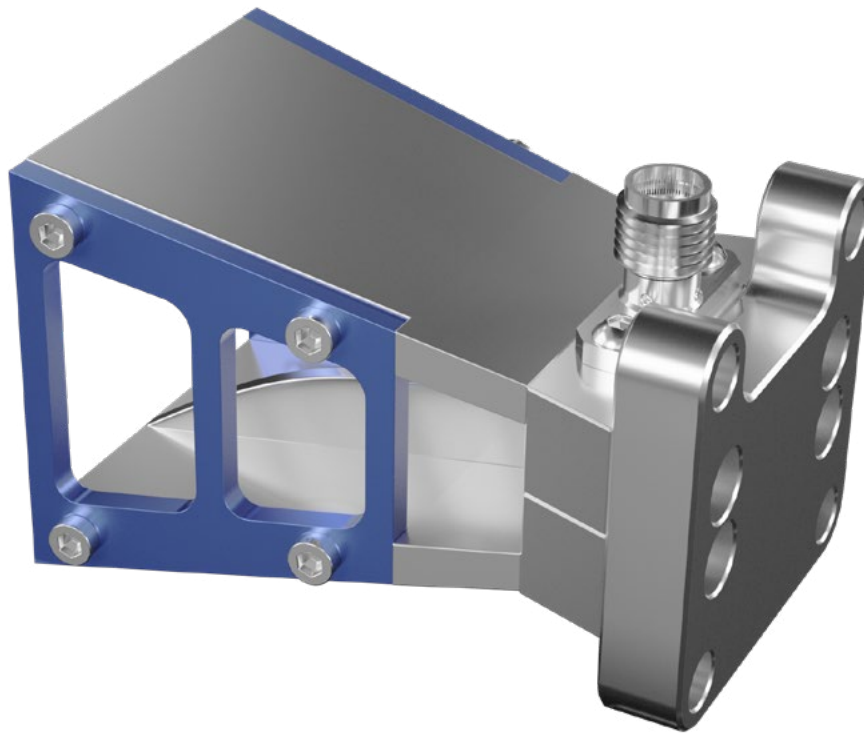


# POWERLOG<sup>®</sup>

PowerLOG<sup>®</sup> 50700



## TECHNICAL DATASHEET

Specifications | VSWR | Return Loss | Beamwidth | Antenna Gain | Antenna Factor | Antenna Patterns

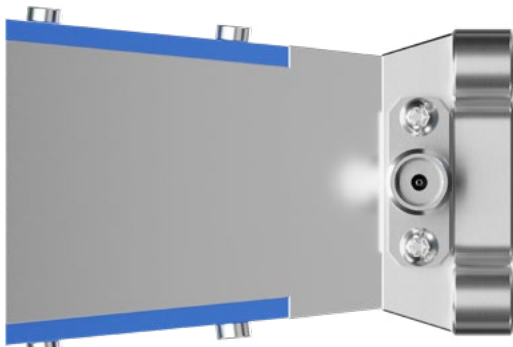
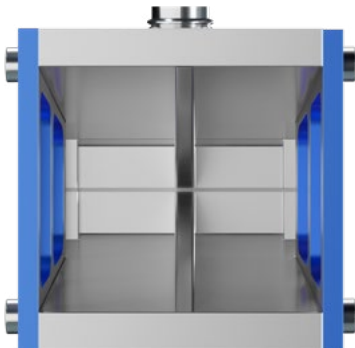
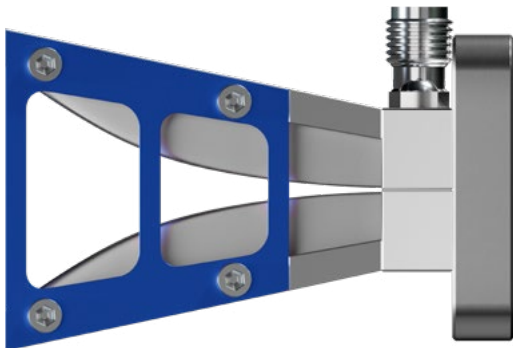
The PowerLOG<sup>®</sup> series is suitable for both transmitting and receiving purposes. Due to the very high maximum transmit power of up to 500W (peak), the PowerLOG<sup>®</sup> series is particularly suitable for EMC or interference emission measurements. The delivery of each Aaronia PowerLOG<sup>®</sup> antenna includes the complete high resolution calibration data with a high number of calibration points (certificate and download link to Excel file included).

The horn antennas of the standard PowerLOG<sup>®</sup> series are characterized by enormous broadband and very high input power. The gain increases with increasing frequency up to max. approx. 25 dBi. This gain increase compensates for the increasing cable losses at higher frequencies.

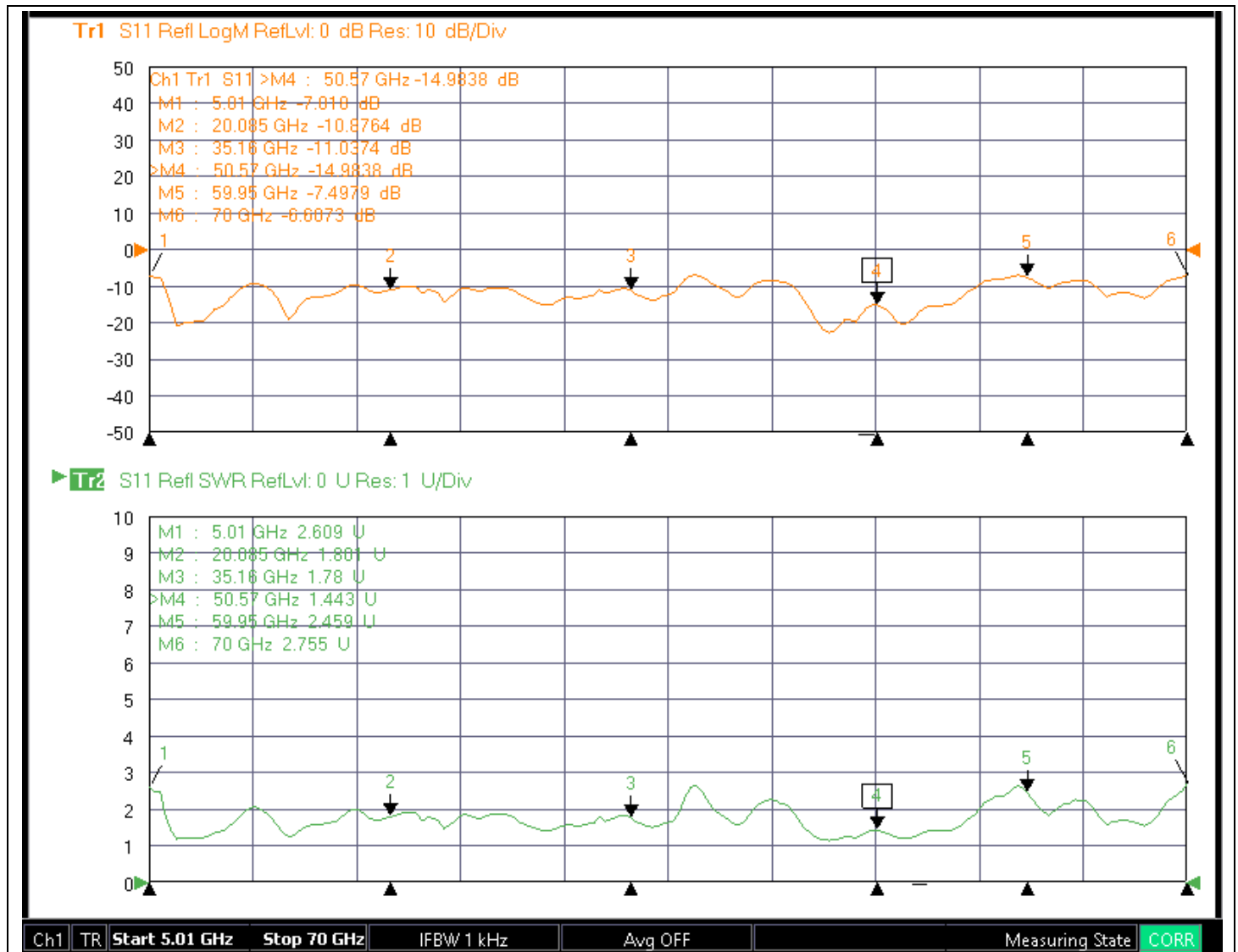
Scope of Delivery:

PowerLOG<sup>®</sup> 50700 antenna, aluminum mounting bracket, screws

Frequency range	▶ 5 GHz - 70 GHz
Design	▶ Double-ridged
active	▶ No
Gain (max.)	▶ 25 dBi
Connector	▶ 1.85 mm V (f)
Mount	▶ Mounting bracket
Dimensions in mm	▶ 32 x 34 x 50 mm
Weight	▶ 50 g
Warranty	▶ 2 years
SKU	▶ 205/007

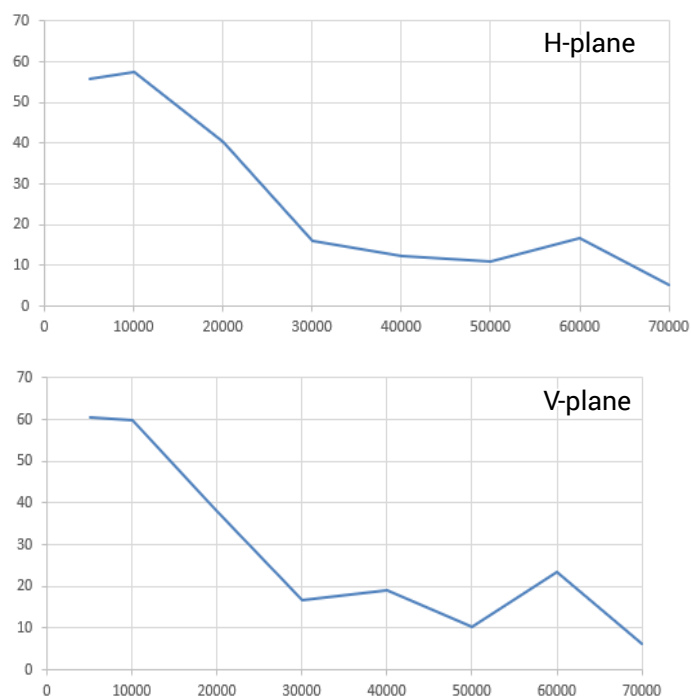


## Return Loss & VSWR

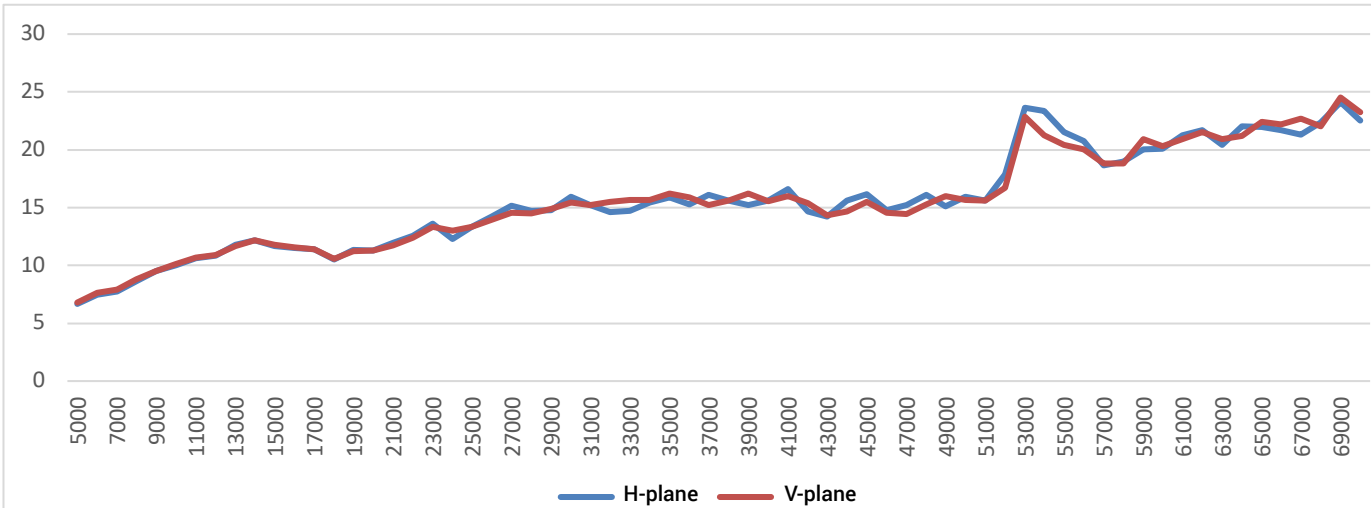


## -3dB Beamwidth

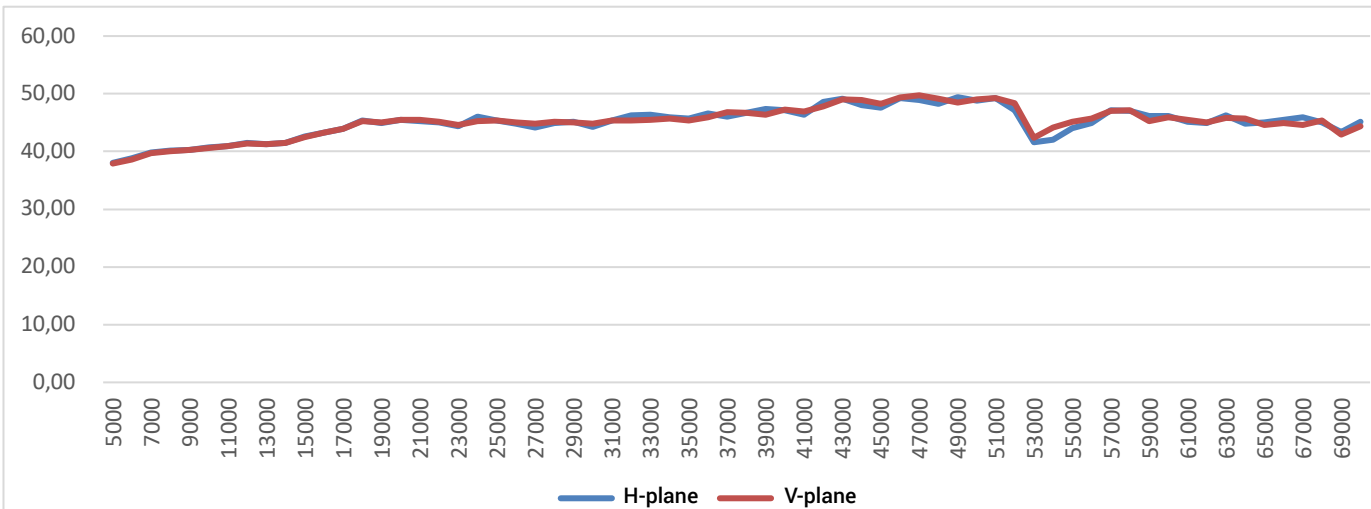
	V-plane	H-plane
5000 MHz	55.7	60.4
10000 MHz	57.5	59.9
20000 MHz	40.3	38
30000 MHz	16.2	16.8
40000 MHz	12.2	19.1
50000 MHz	11.1	10.3
60000 MHz	16.6	23.4
70000 MHz	5.4	6.3
AVG	26.8	29.2



Antenna Gain



Antenna Factor

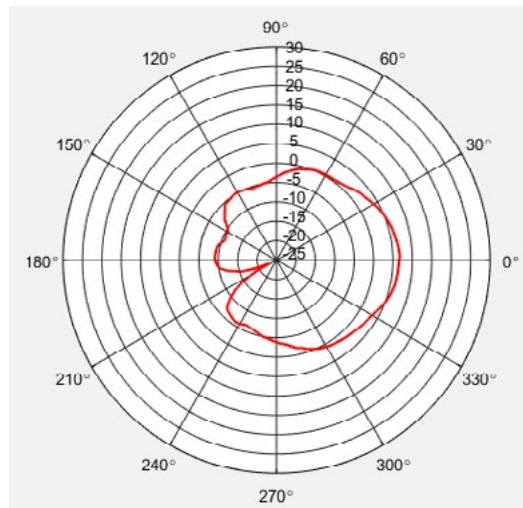
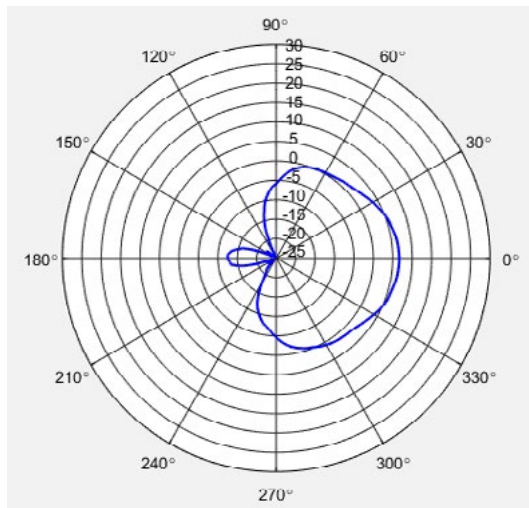


## H-Plane

## V-Plane

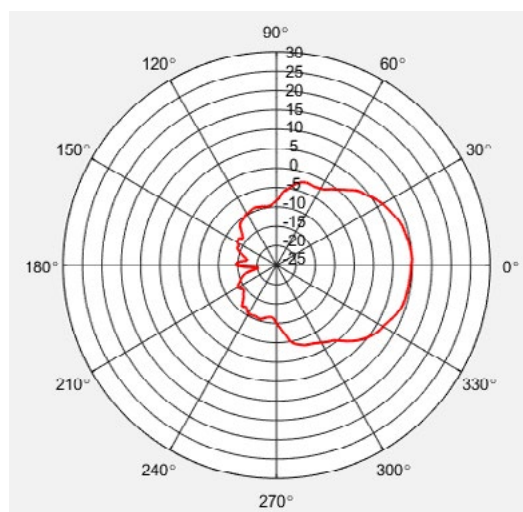
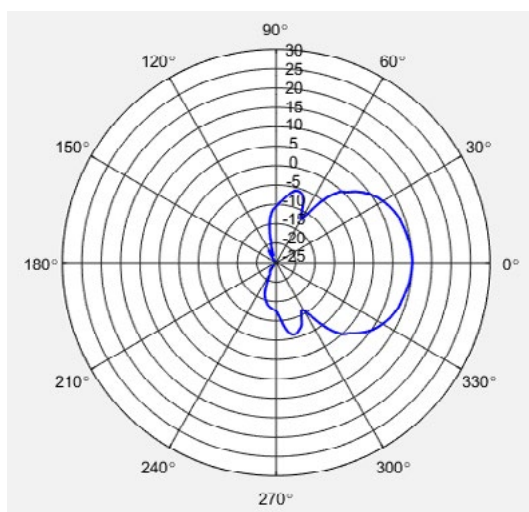
5000 MHz

5000 MHz



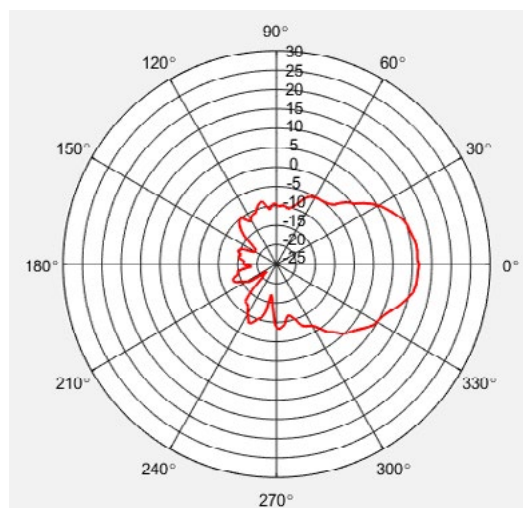
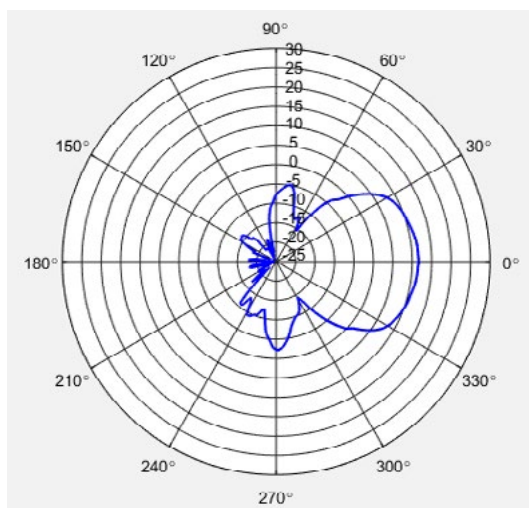
10000 MHz

10000 MHz

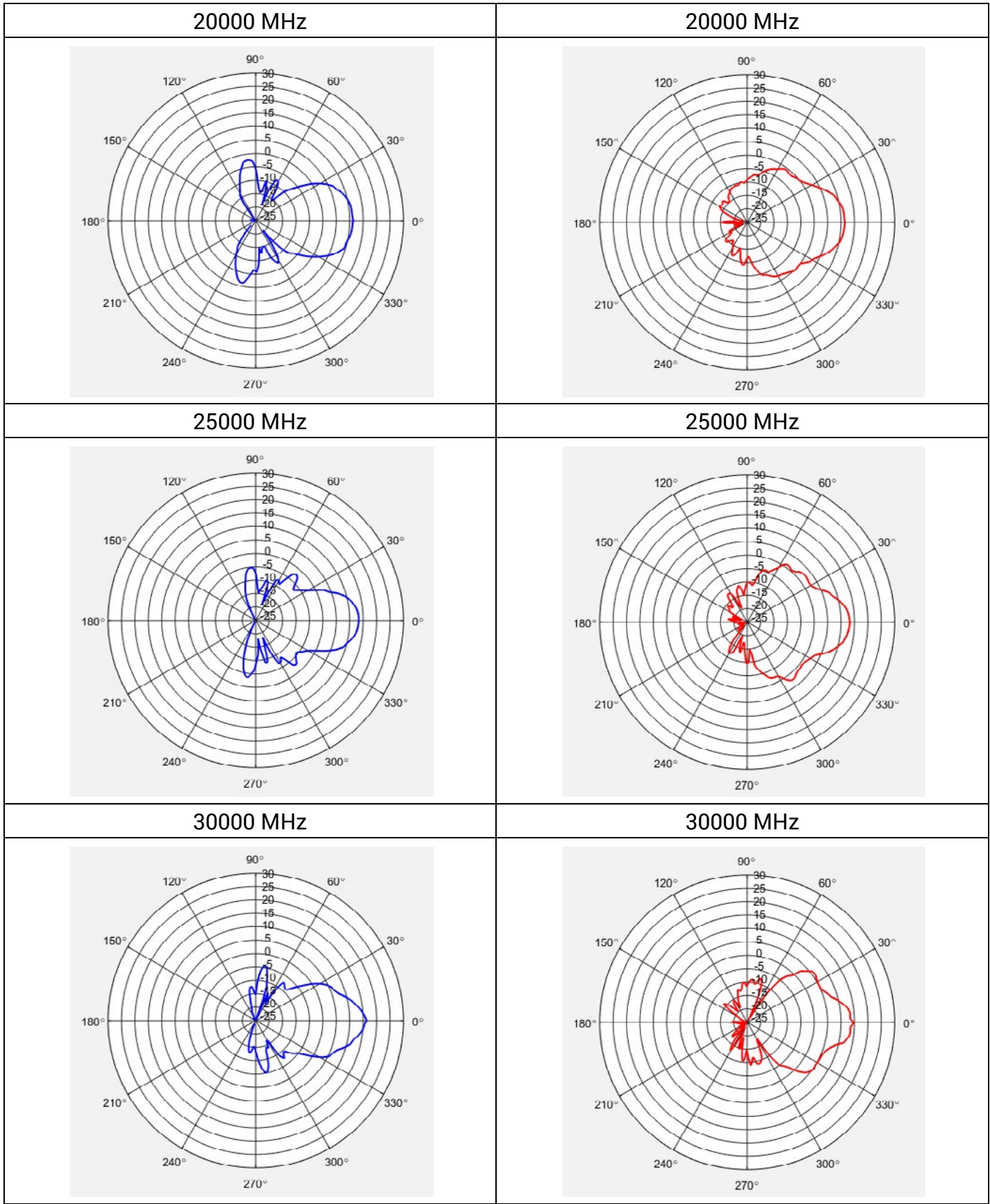


15000 MHz

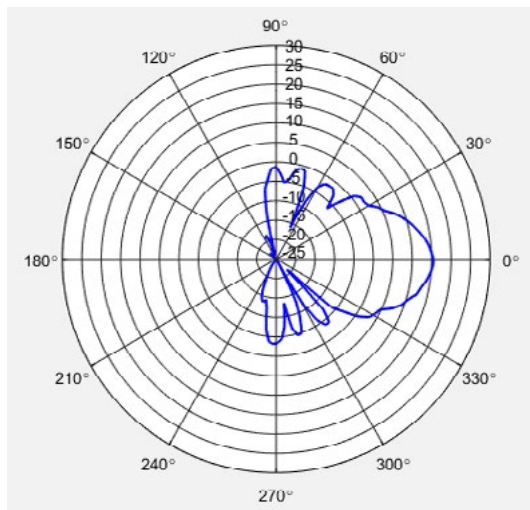
15000 MHz



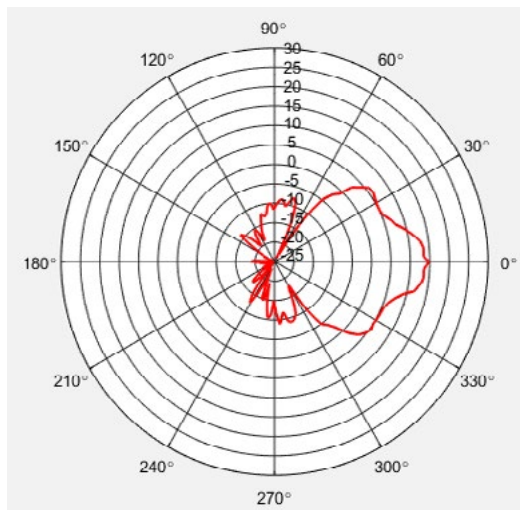




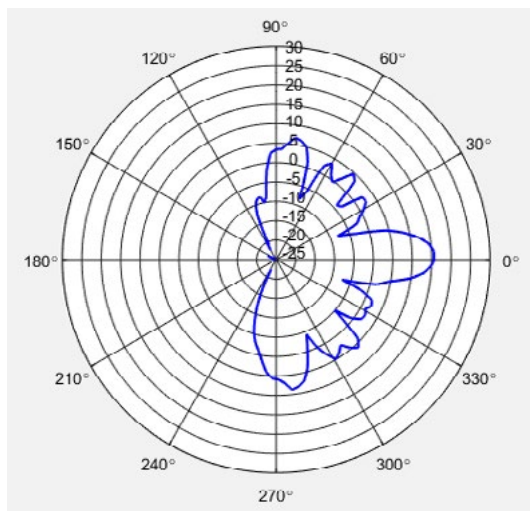
35000 MHz



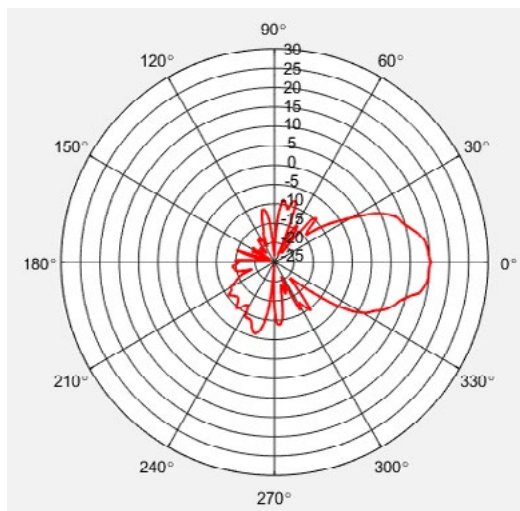
35000 MHz



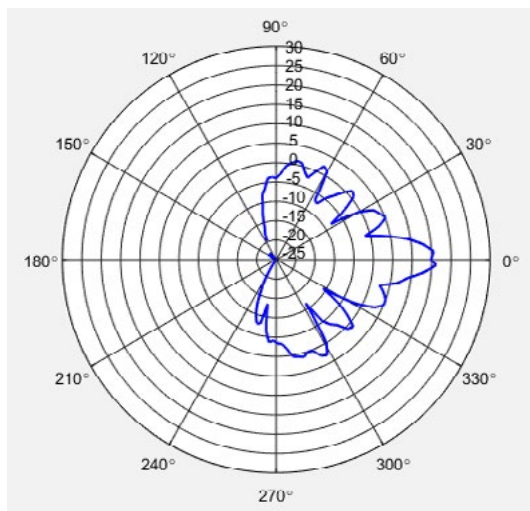
40000 MHz



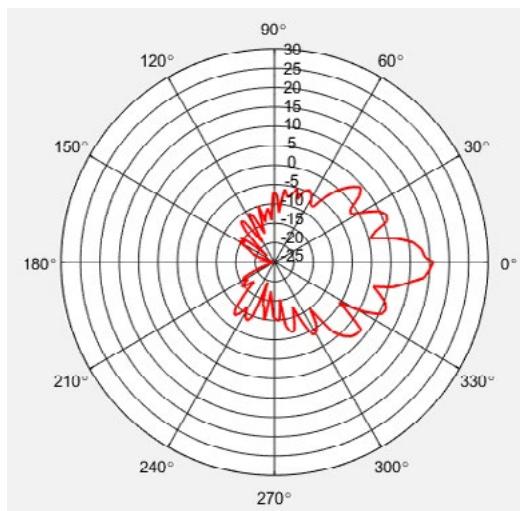
40000 MHz



45000 MHz

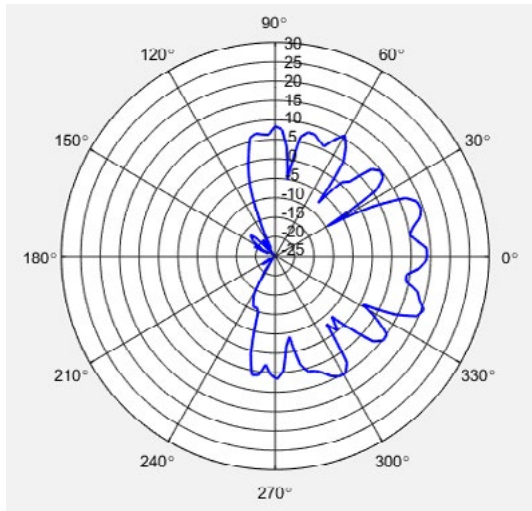


45000 MHz

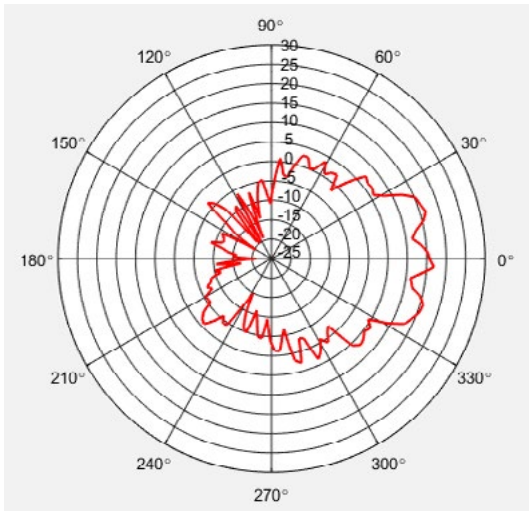




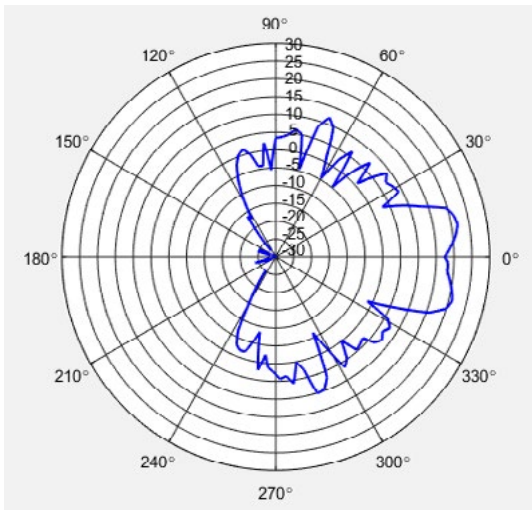
50000 MHz



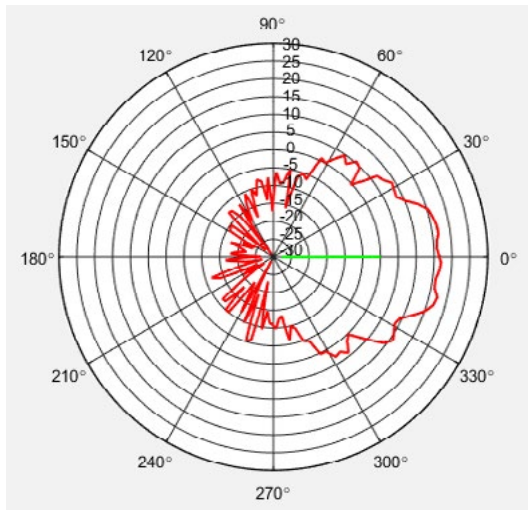
50000 MHz



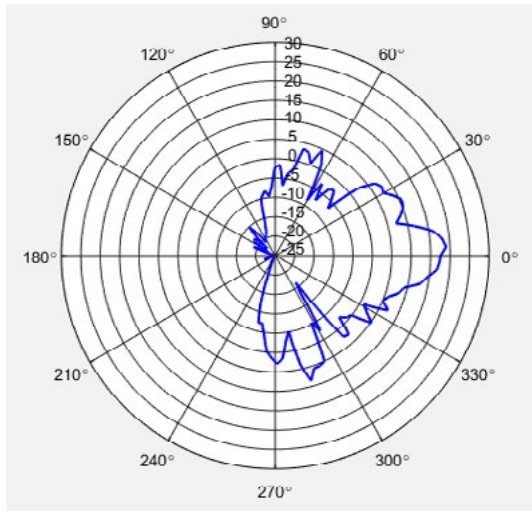
55000 MHz



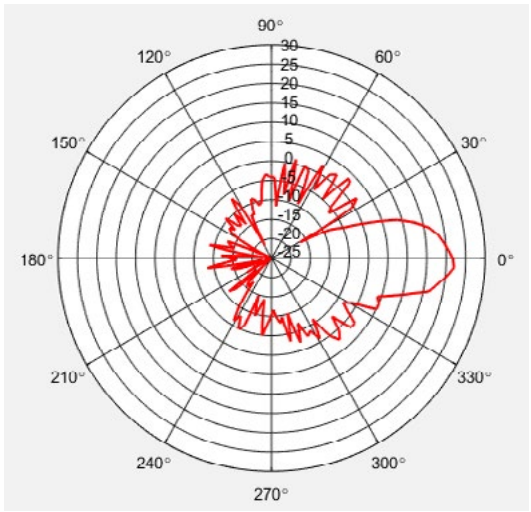
55000 MHz



60000 MHz

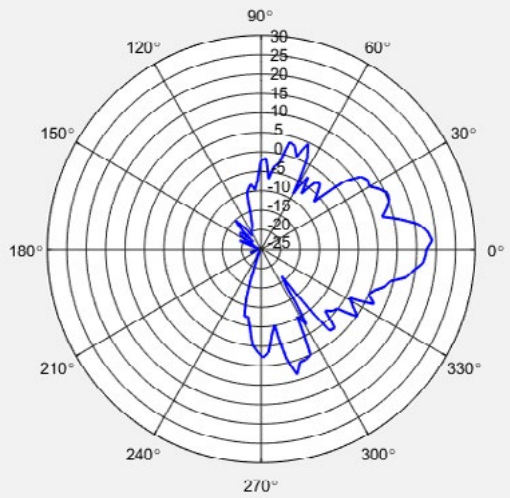


60000 MHz

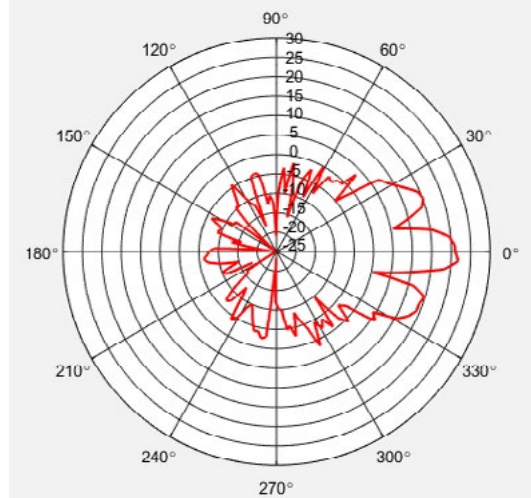




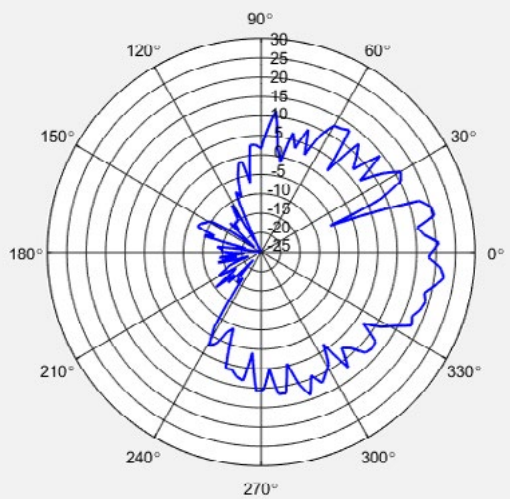
65000 MHz



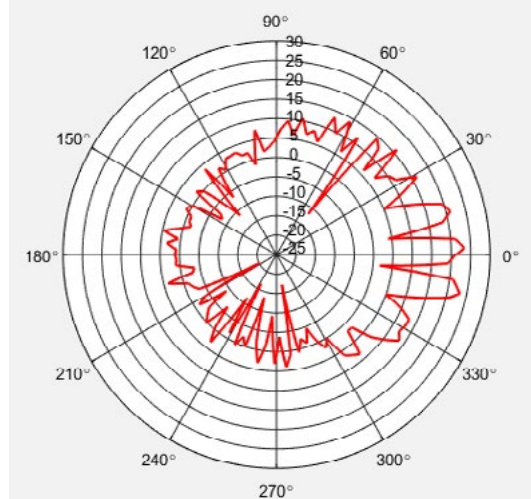
65000 MHz



70000 MHz



70000 MHz



## PowerLOG 50700 Mounting Bracket

