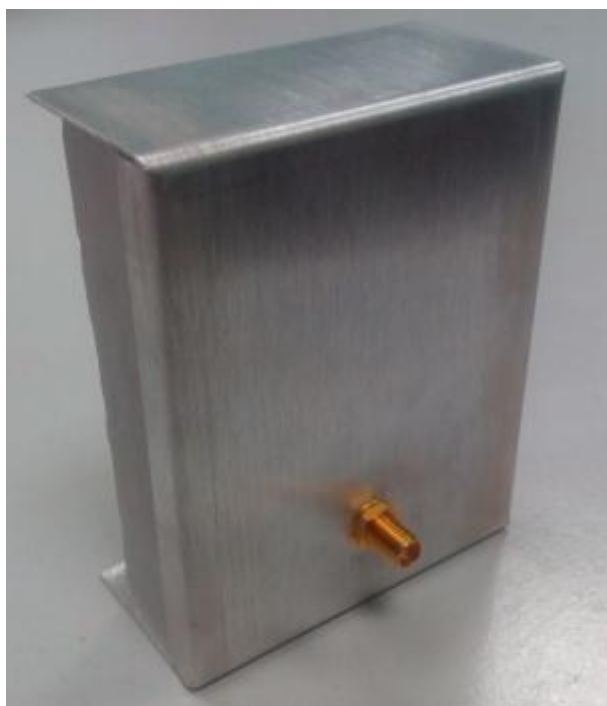




## Ultra-wideband antenna Antrad-12

### Technical Data

Antenna Type:	trapezoid monopole
Frequency Range:	1.5 – 4.5 GHz
Gain:	up to 7.7 dBi (at a frequency of 3 GHz)
Impedance:	50 $\Omega$
VSWR:	not more than 2.5:1
Size without connector:	89 × 71 × 45 mm
Connector:	SMA (FEMALE)





# Ultra-wideband antenna Antrad-12

## VSWR

The following picture shows VSWR





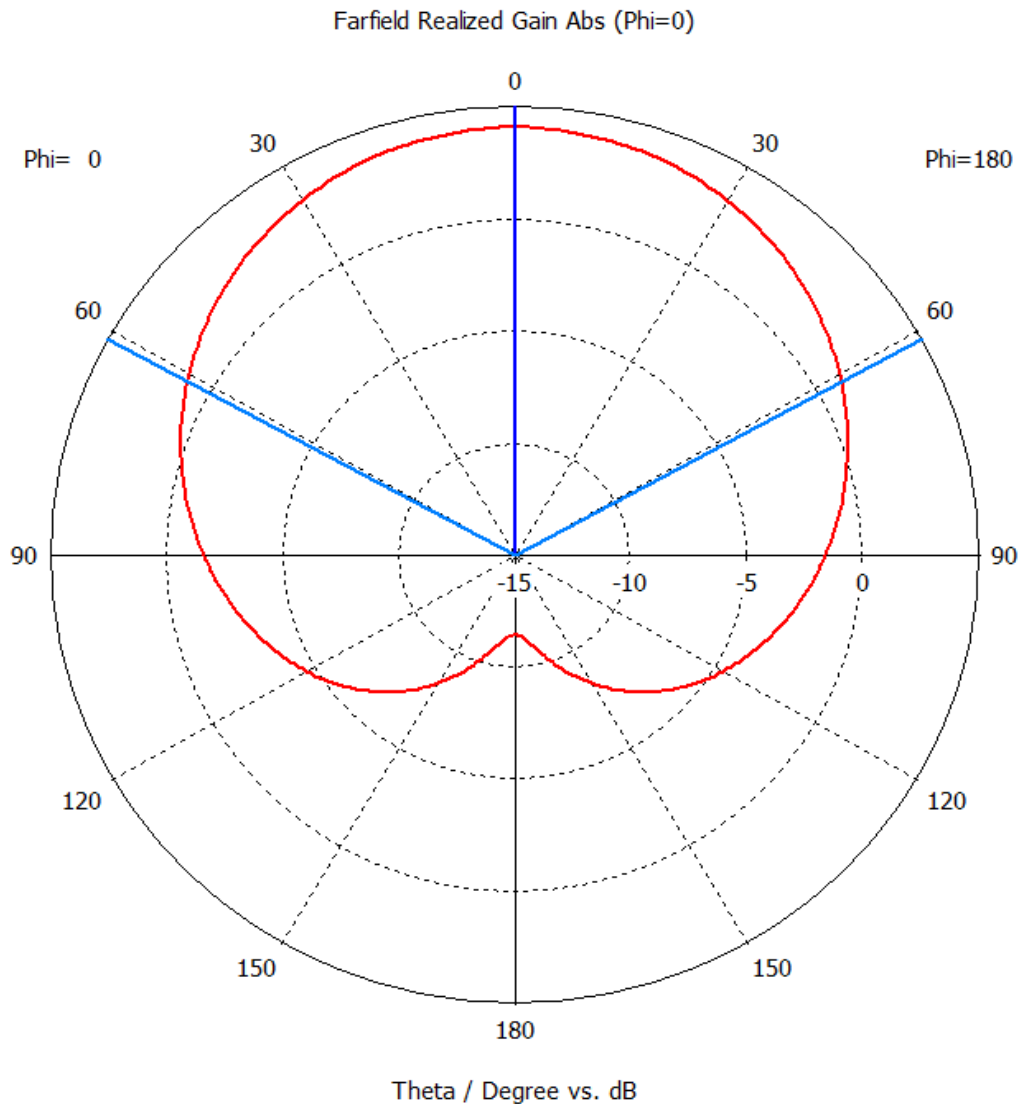
# Ultra-wideband antenna Antrad-12

## Radiation pattern

The following picture shows normalized radiation pattern in the horizontal plane in dB at a frequency of 1.5 GHz.

Main lobe magnitude = 4 dB.

Angular width (3 dB) = 122 deg.





# Ultra-wideband antenna Antrad-12

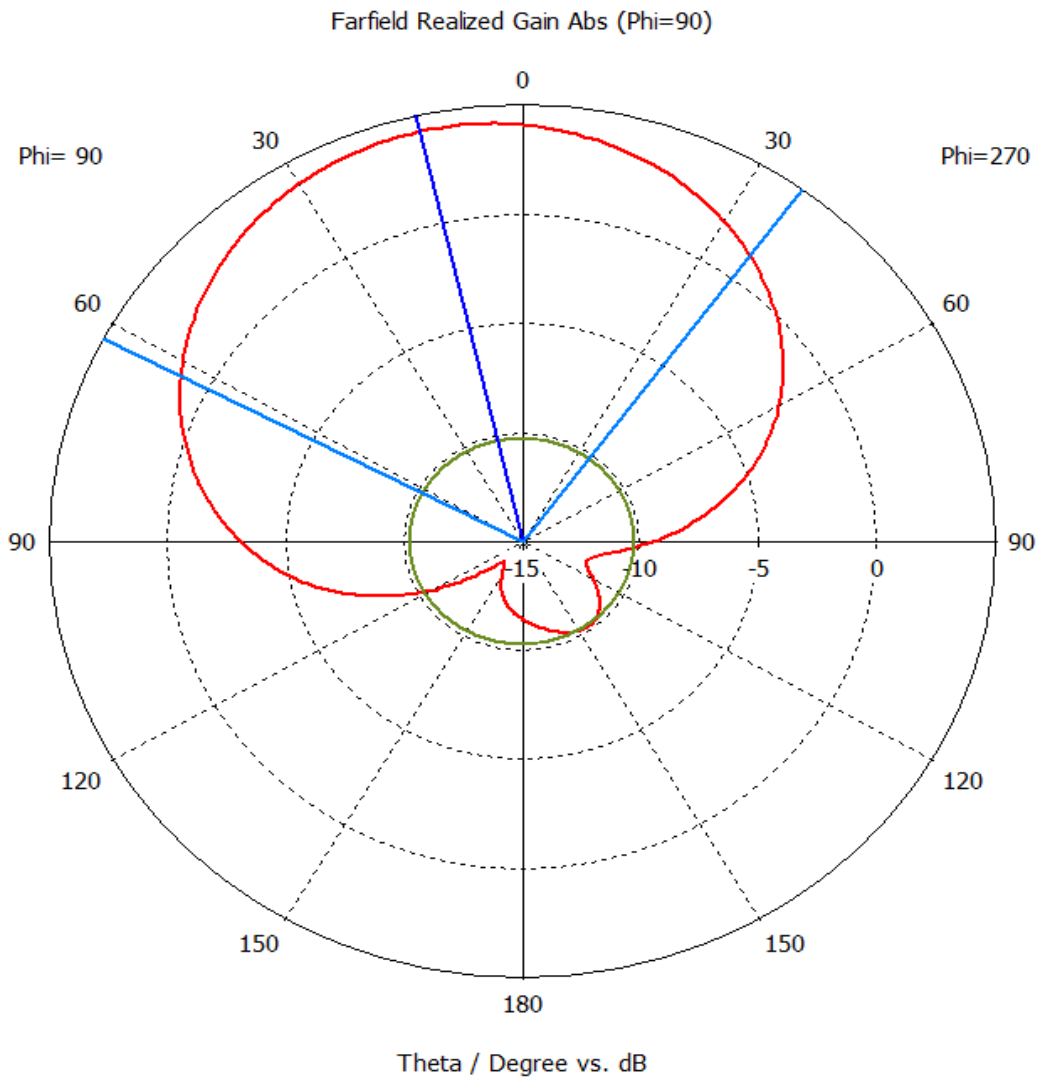
## Radiation pattern

The following picture shows normalized radiation pattern in the vertical plane in dB at a frequency of 1.5 GHz.

Main lobe magnitude = 4.6 dB.

Angular width (3 dB) = 98 deg.

Offset of the main lobe is 13 degrees.





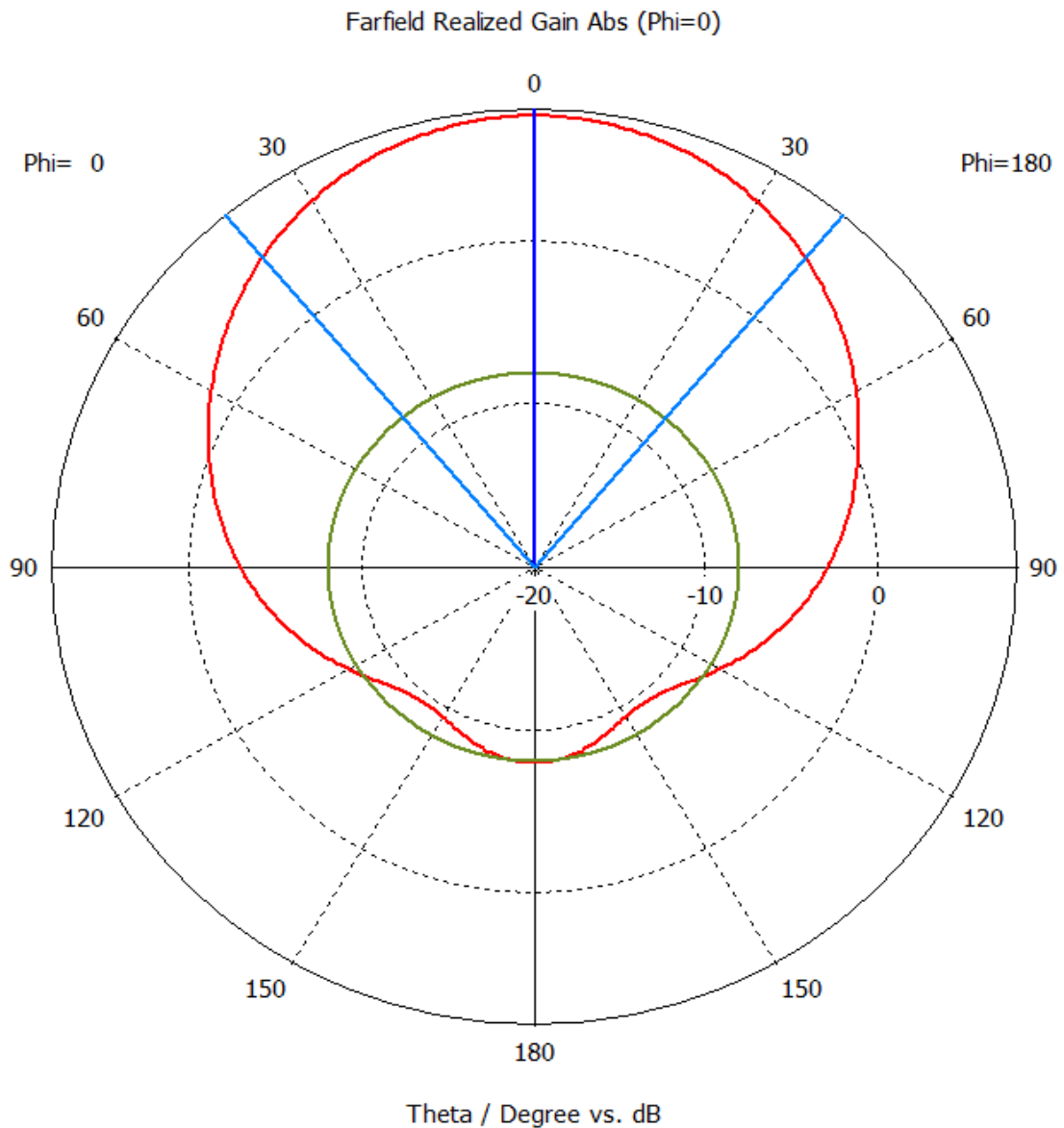
# Ultra-wideband antenna Antrad-12

## Radiation pattern

The following picture shows normalized radiation pattern in the horizontal plane in dB at a frequency of 3 GHz.

Main lobe magnitude = 7.6 dB.

Angular width (3 dB) = 80 deg.





# Ultra-wideband antenna Antrad-12

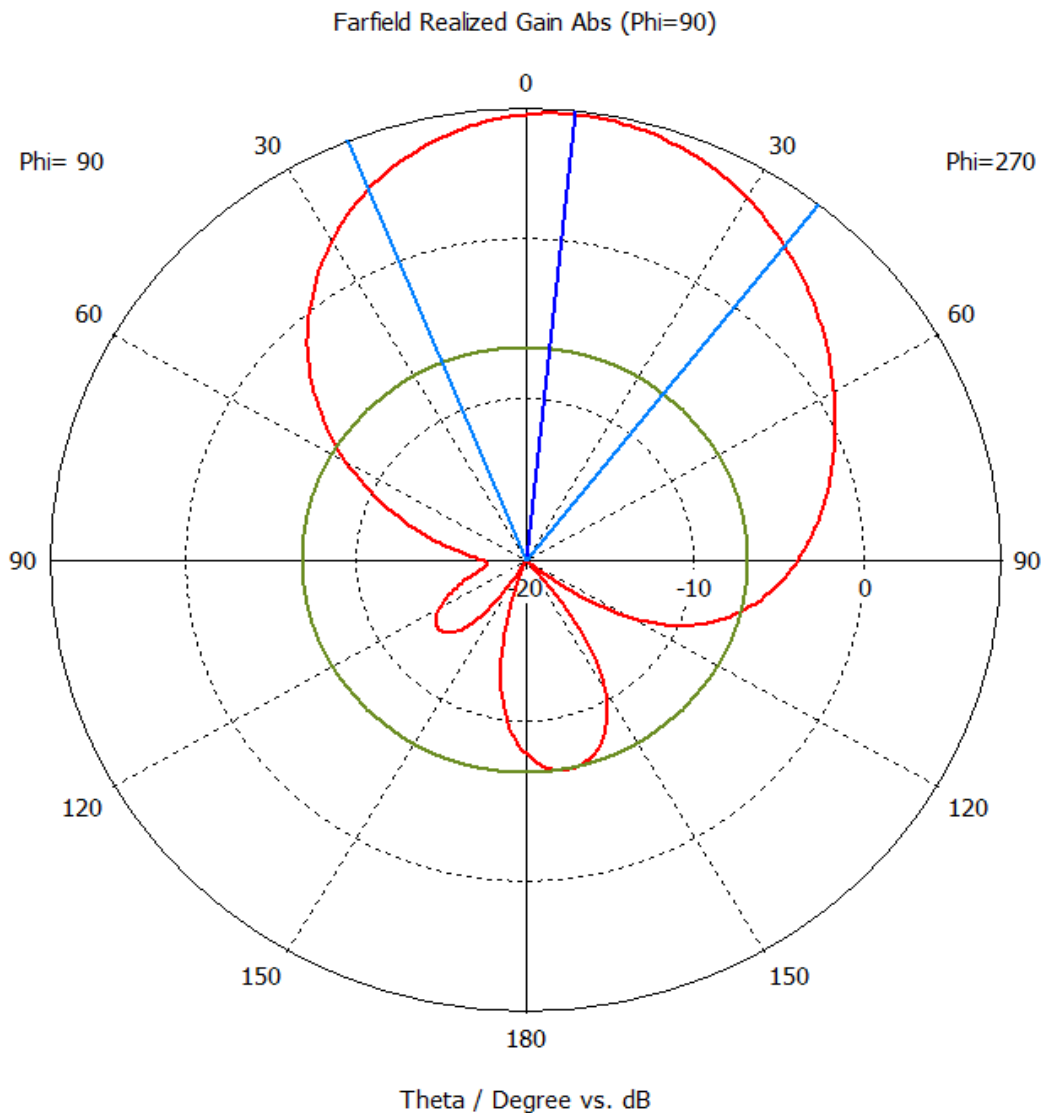
## Radiation pattern

The following picture shows normalized radiation pattern in the vertical plane in dB at a frequency of 3 GHz.

Main lobe magnitude = 7.7 dB.

Angular width (3 dB) = 60 deg.

Offset of the main lobe is -6 degrees.





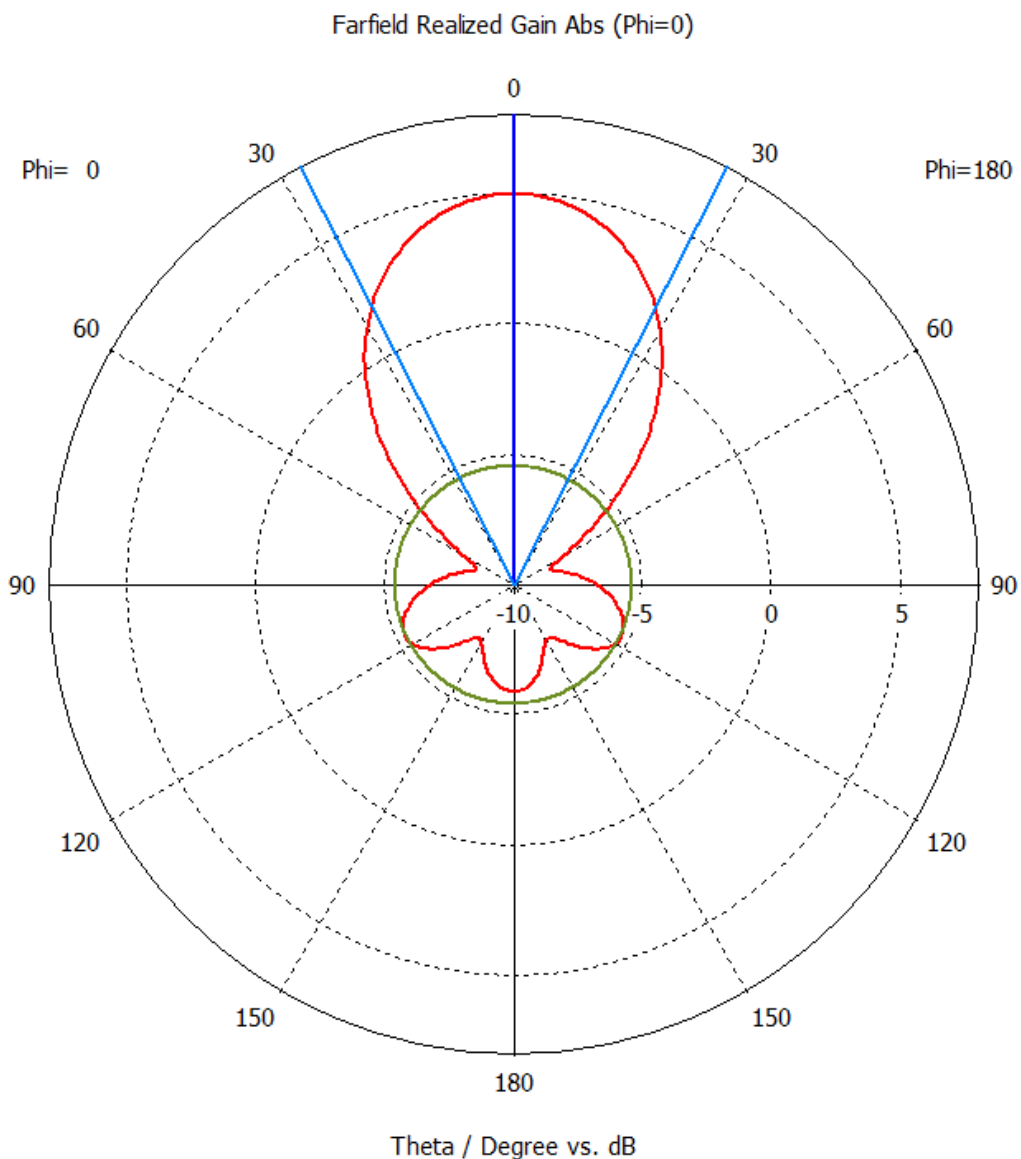
# Ultra-wideband antenna Antrad-12

## Radiation pattern

The following picture shows normalized radiation pattern in the horizontal plane in dB at a frequency of 4.5 GHz.

Main lobe magnitude = 5 dB.

Angular width (3 dB) = 55 deg.





# Ultra-wideband antenna Antrad-12

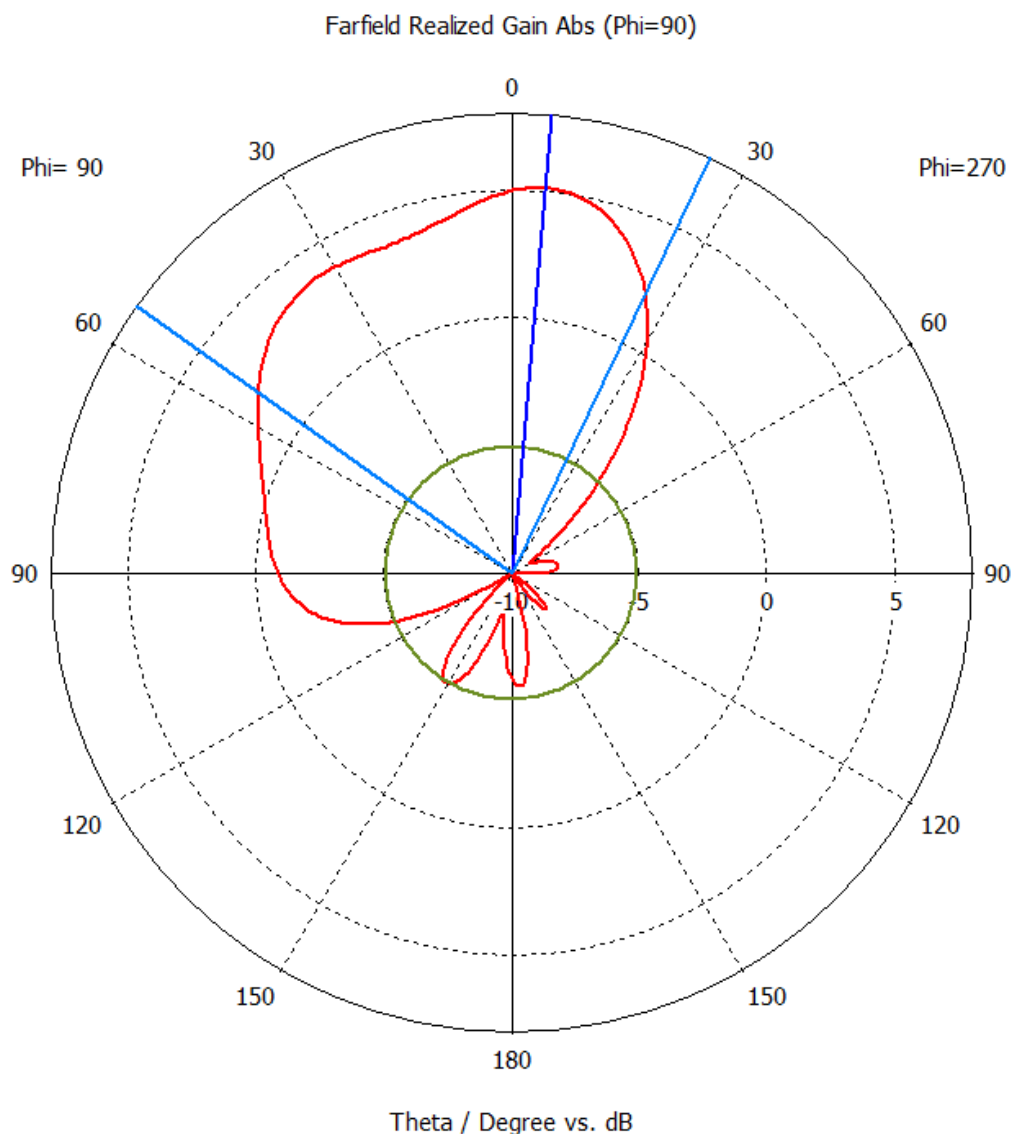
## Radiation pattern

The following picture shows normalized radiation pattern in the vertical plane in dB at a frequency of 4.5 GHz.

Main lobe magnitude = 5.1 dB.

Angular width (3 dB) = 80 deg.

Offset of the main lobe is -5 degrees.







## Ultra-wideband antenna Antrad-12

### Application note

The directional ultra-wideband antenna Antrad-12, shielded in one hemisphere, can be used for radar, radio communication and radio monitoring systems operating in different frequency bands from 1.5 to 4.5 GHz.