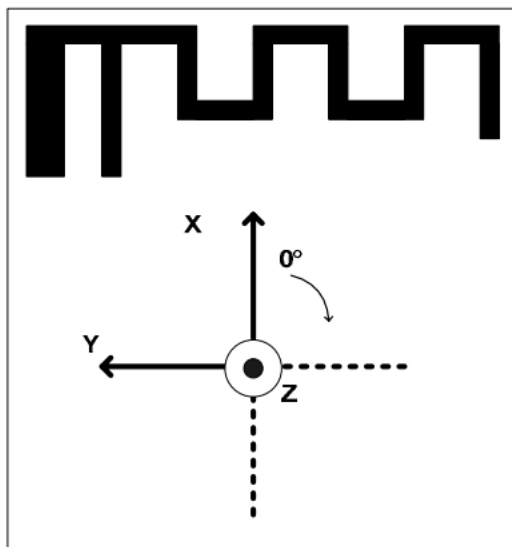


Gain in XY plane	4.5 dB
Gain in XZ plane	5.3 dB
Gain in YZ plane	5.3 dB

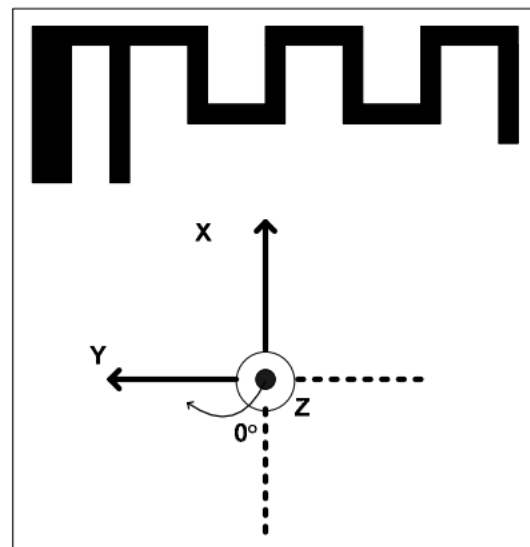
### 3. Radiation Pattern

The radiation pattern for the antenna implemented on the REM has been measured in an anechoic chamber. Attached figures shows radiation patterns for three planes, XY, XZ and YZ, measured with vertical and horizontal polarization.

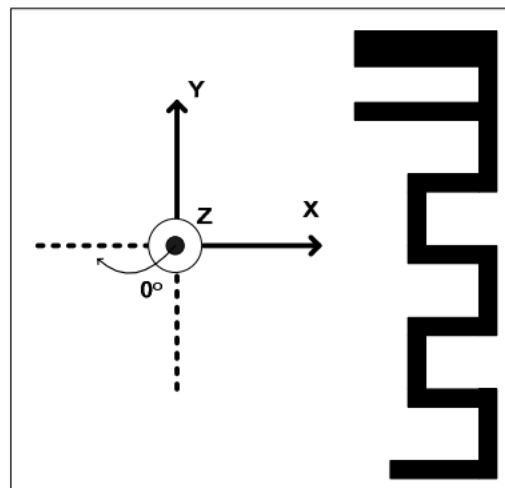
All measurements were performed with 0 dBm output power. Below shows how the different radiation patterns are related to the positioning of the antenna.



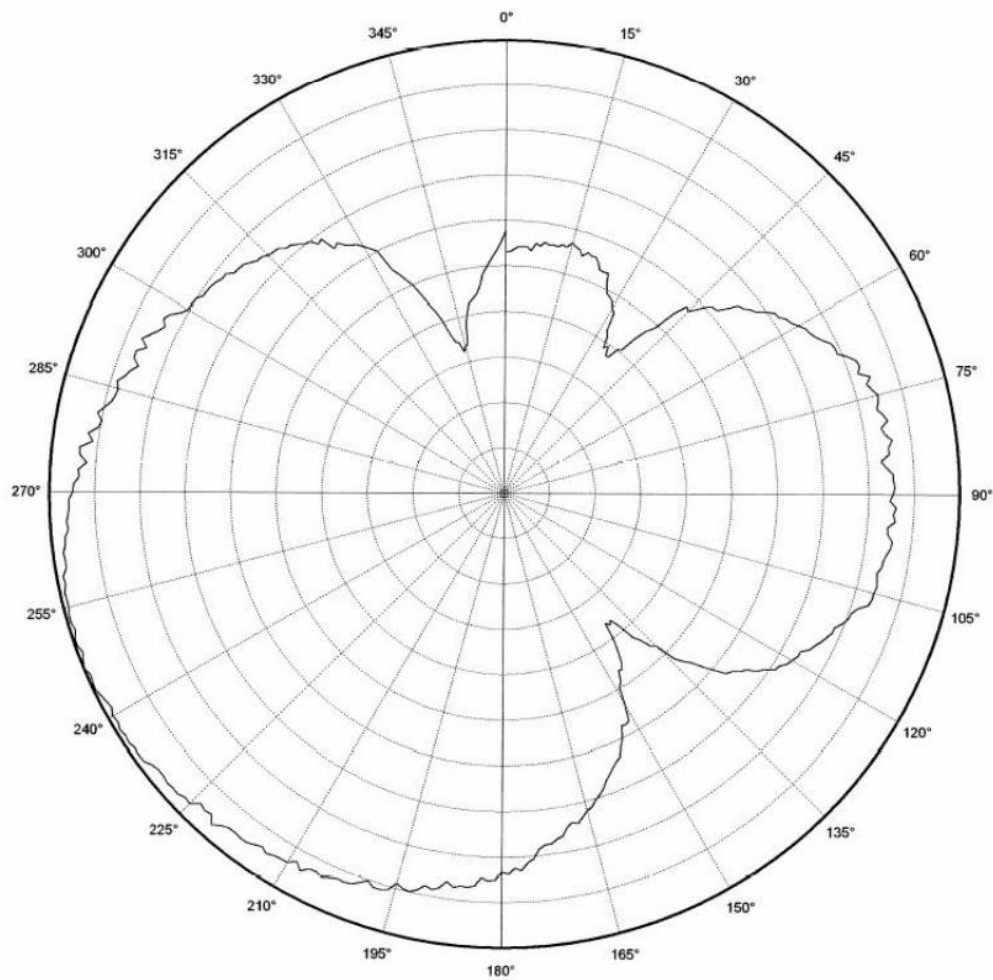
XY plane



YZ plane



XZ plane



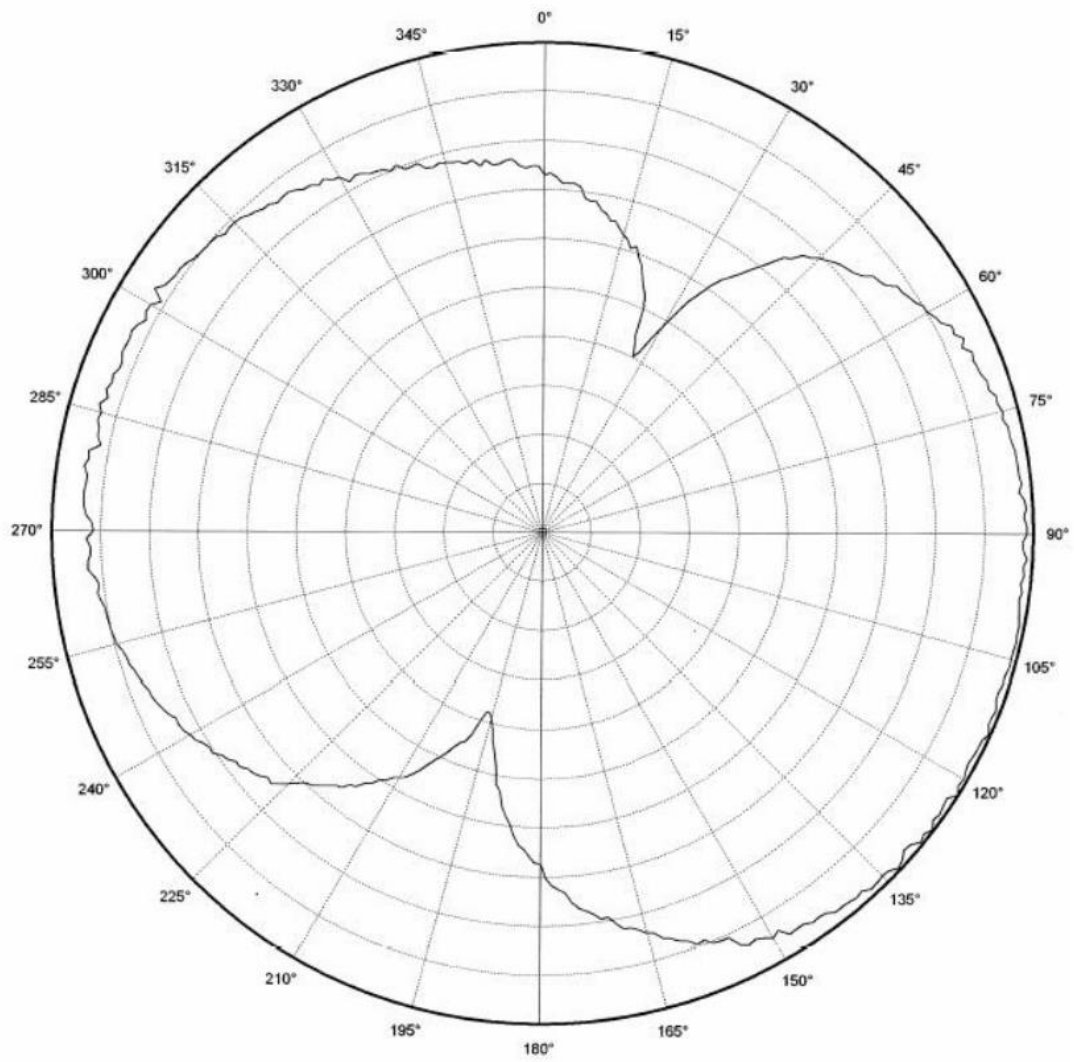
Vertical Polarization

usb XY

CF 2450.000 MHz

4 dB/ div

Ref Lev: *-2,5* dBm

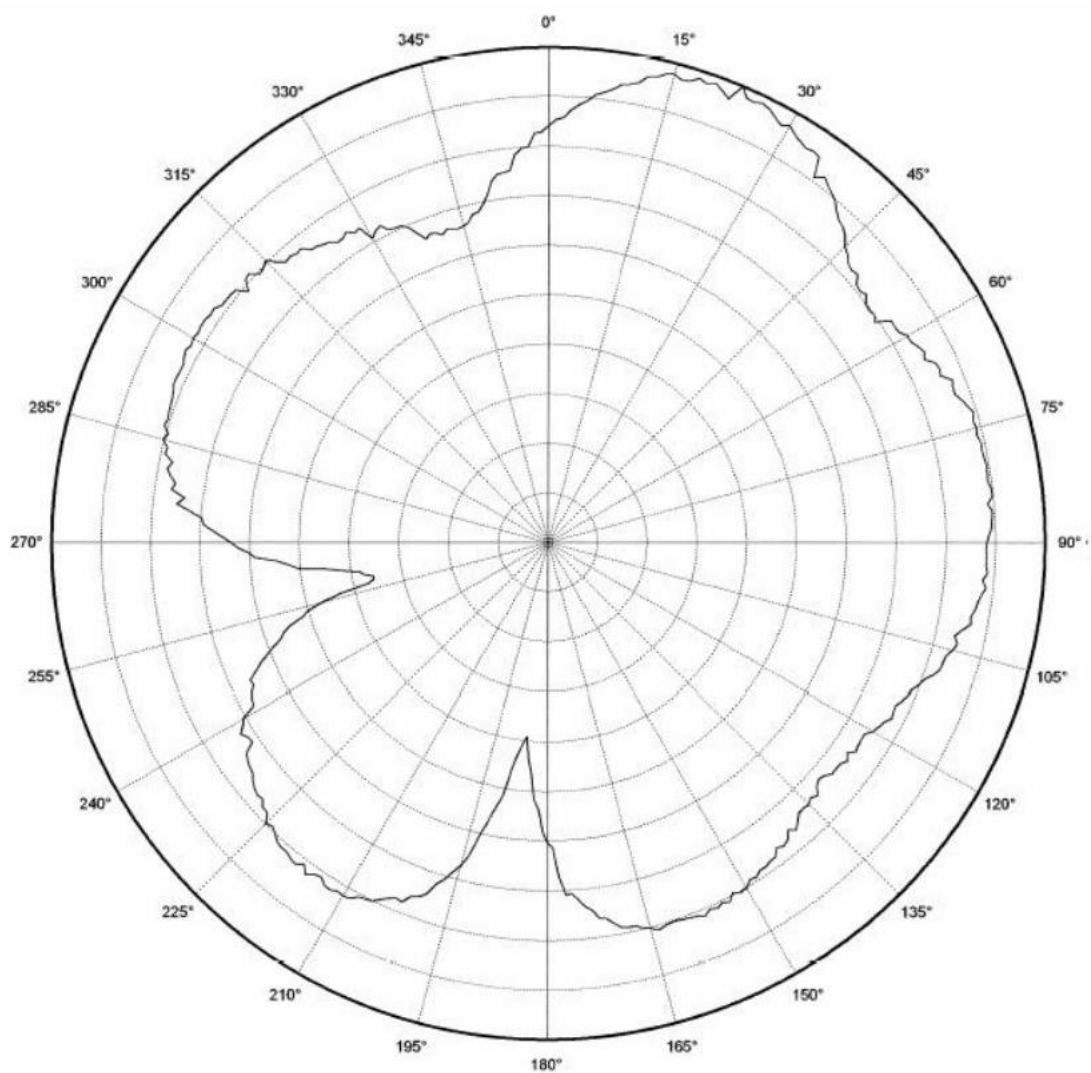


Horizontal Polarization

usb XY

CF 2450.000 MHz  
5 dB/ div

Ref Lev: 45 dBm



Vertical Polarization

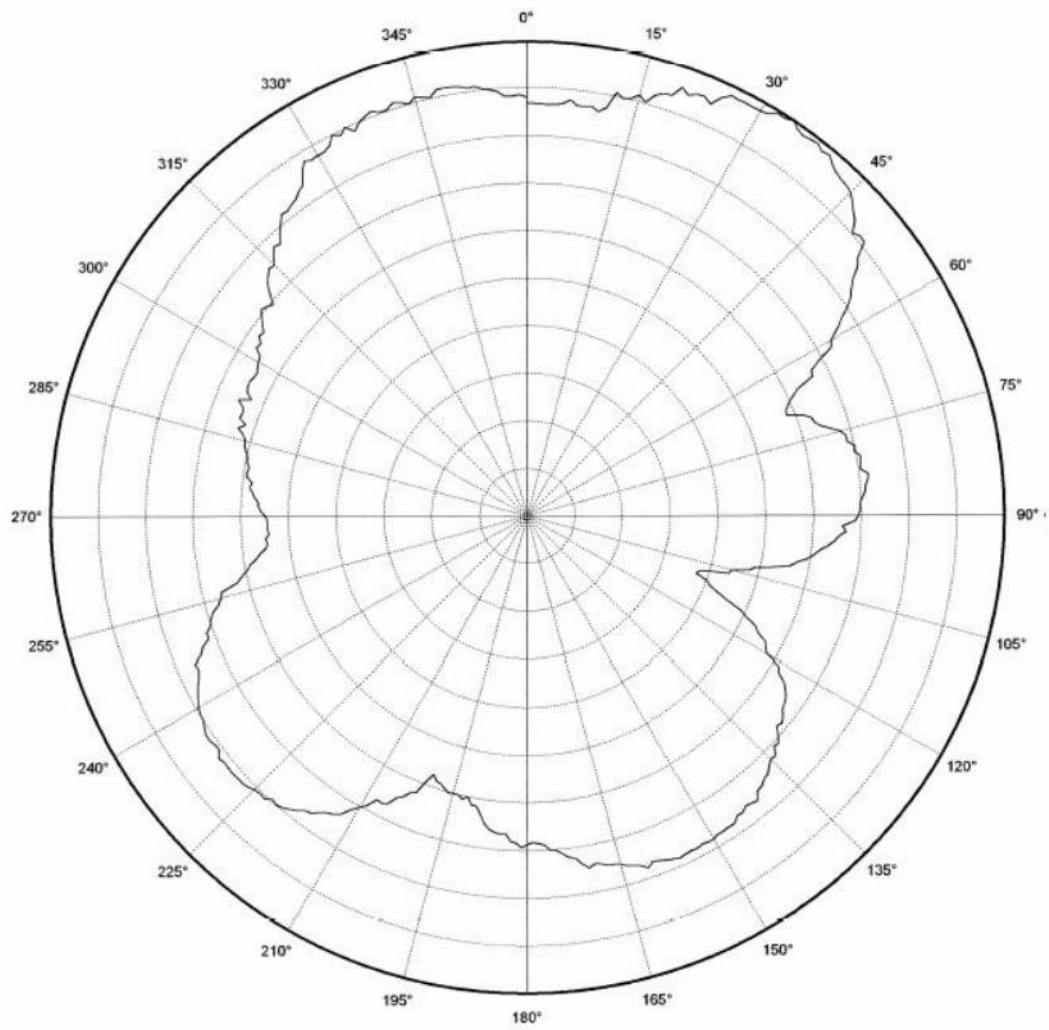
usb XZ

CF 2450.000 MHz

4 dB/ div

Ref Lev: 2, 2

..... dBm



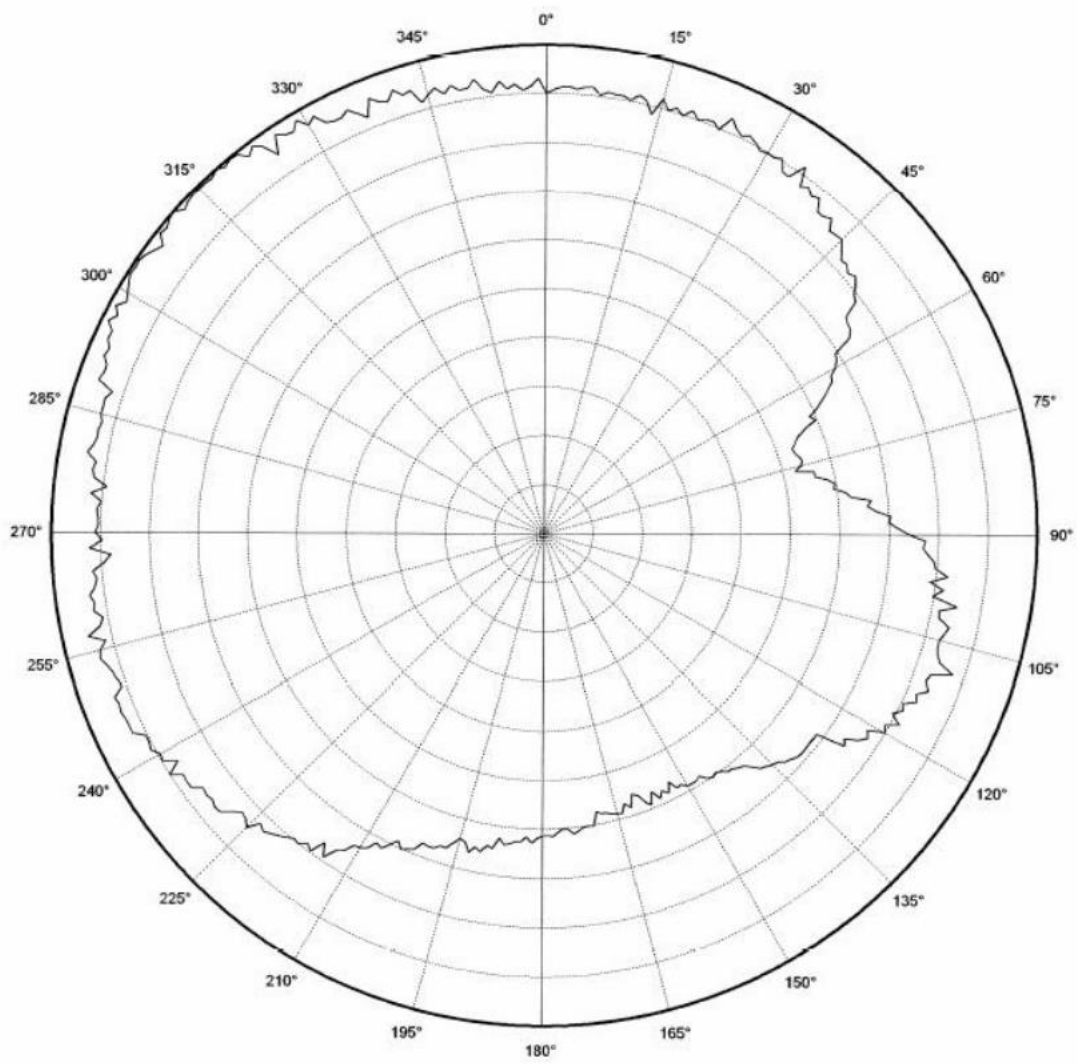
Horizontal Polarization

usb XZ

CF 2450.000 MHz

4 dB/ div

Ref Lev: 5.3 dBm



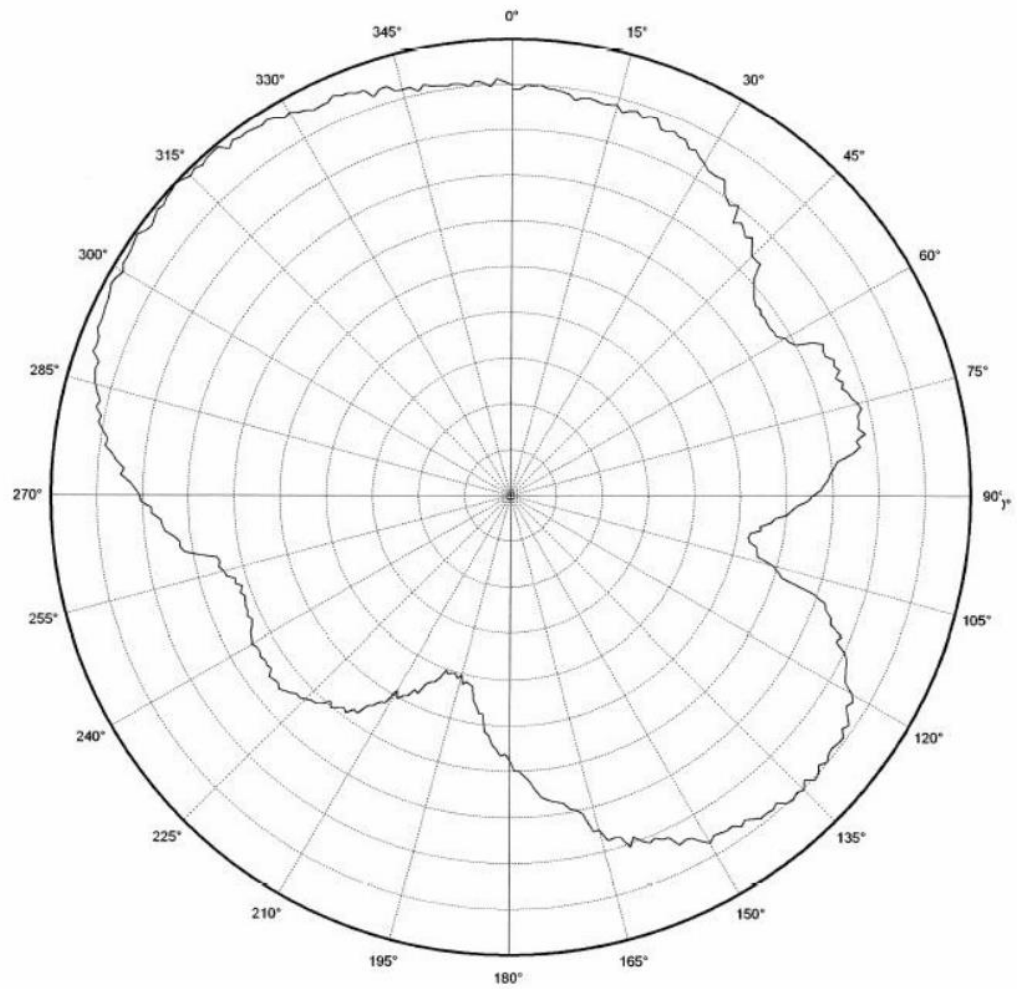
Vertical Polarization

usb YZ

CF 2450.000 MHz

2 dB/ div

Ref Lev: +5,3 dBm



Horizontal Polarization  
usb YZ

CF 2450.000 MHz  
3 dB/ div  
Ref Lev: <sup>-1,2</sup> ..... dBm<sub>i</sub>