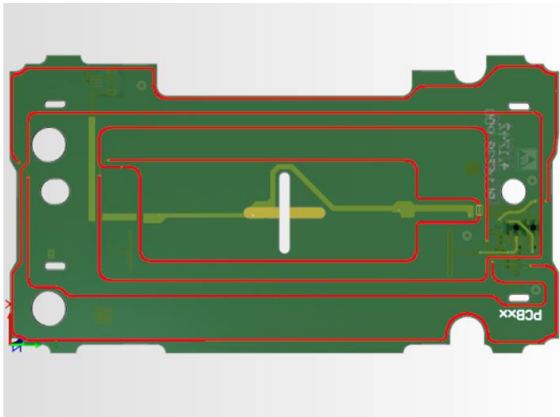


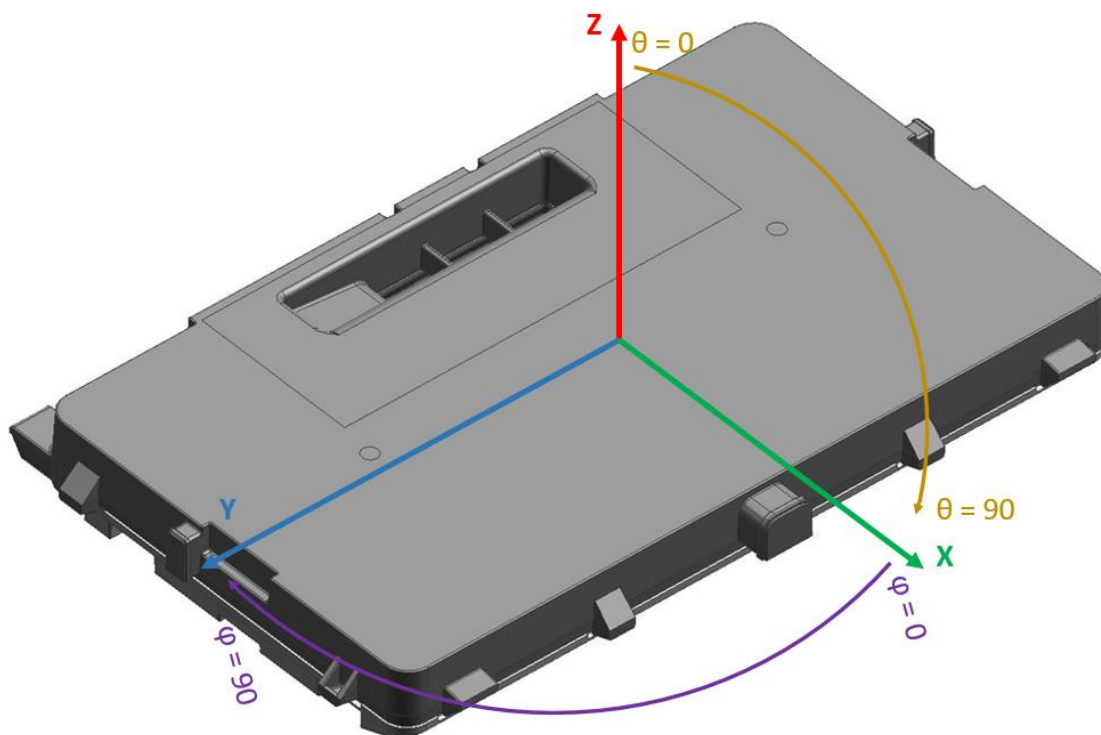
Loop – NFC Antenna 13,56 MHz

0854_086 BMW – Wireless Charging 2025

Max Gain 13,56 MHz [dBi]	-40,96 <i>XZ Plane</i> $\theta = 80^\circ$	
Impedance [Ω]	~20	
Frequency Range [MHz]	13,56	
SWR 13,56 MHz	2 < SWR < 4	
Polarization	~	

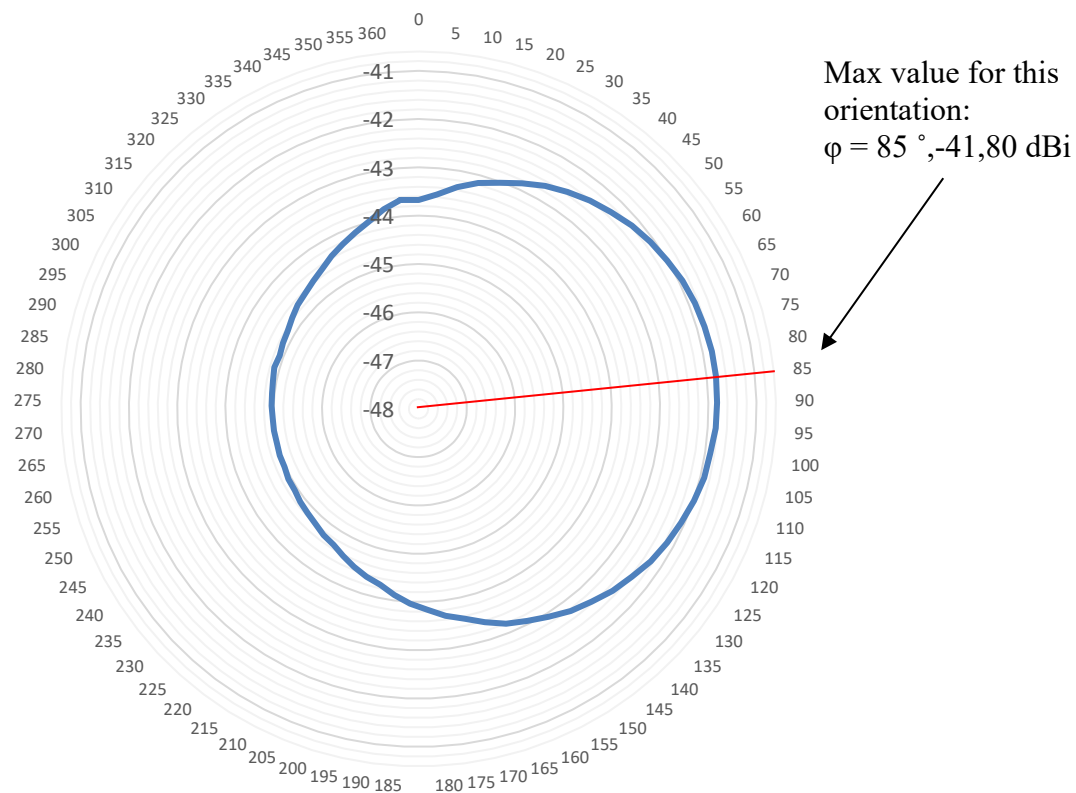
Orientation pattern:
 Device was measured in three cutting planes

XY Plane	XZ Plane	YZ Plane
$\varphi = -180^\circ \div \varphi = 180^\circ, \theta = \text{const} = 90^\circ$	$\theta = -180^\circ \div \theta = 180^\circ, \varphi = \text{const} = 0^\circ$	$\theta = -180^\circ \div \theta = 180^\circ, \varphi = \text{const} = 90^\circ$

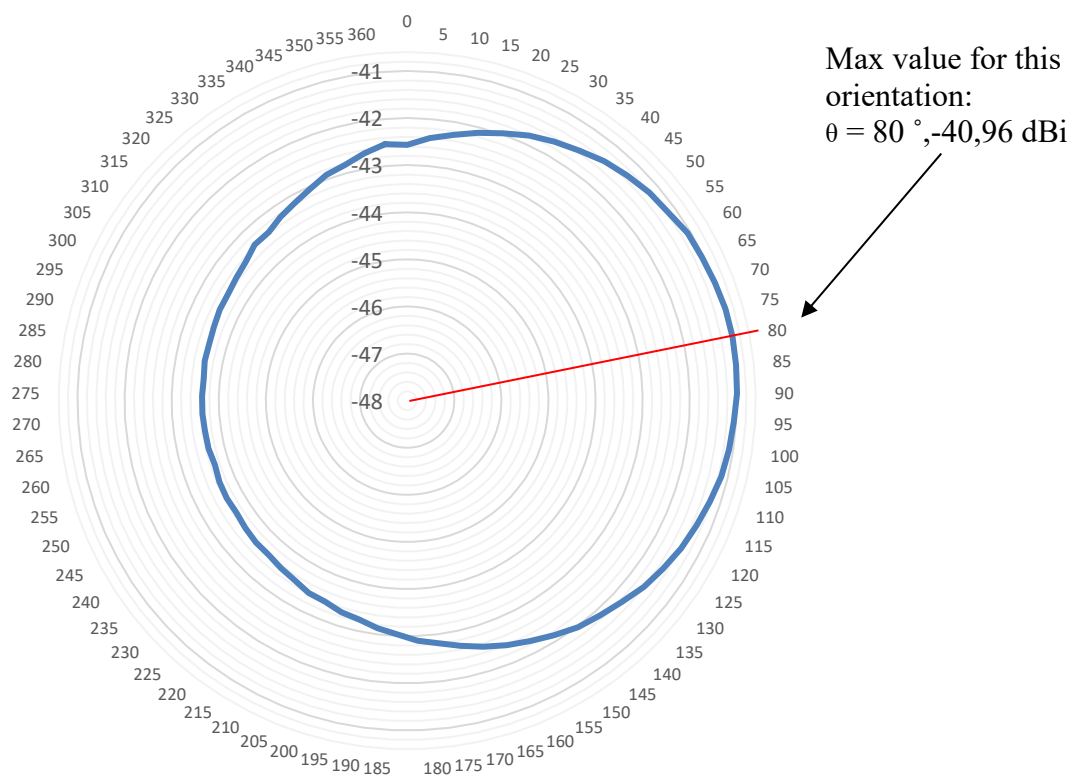


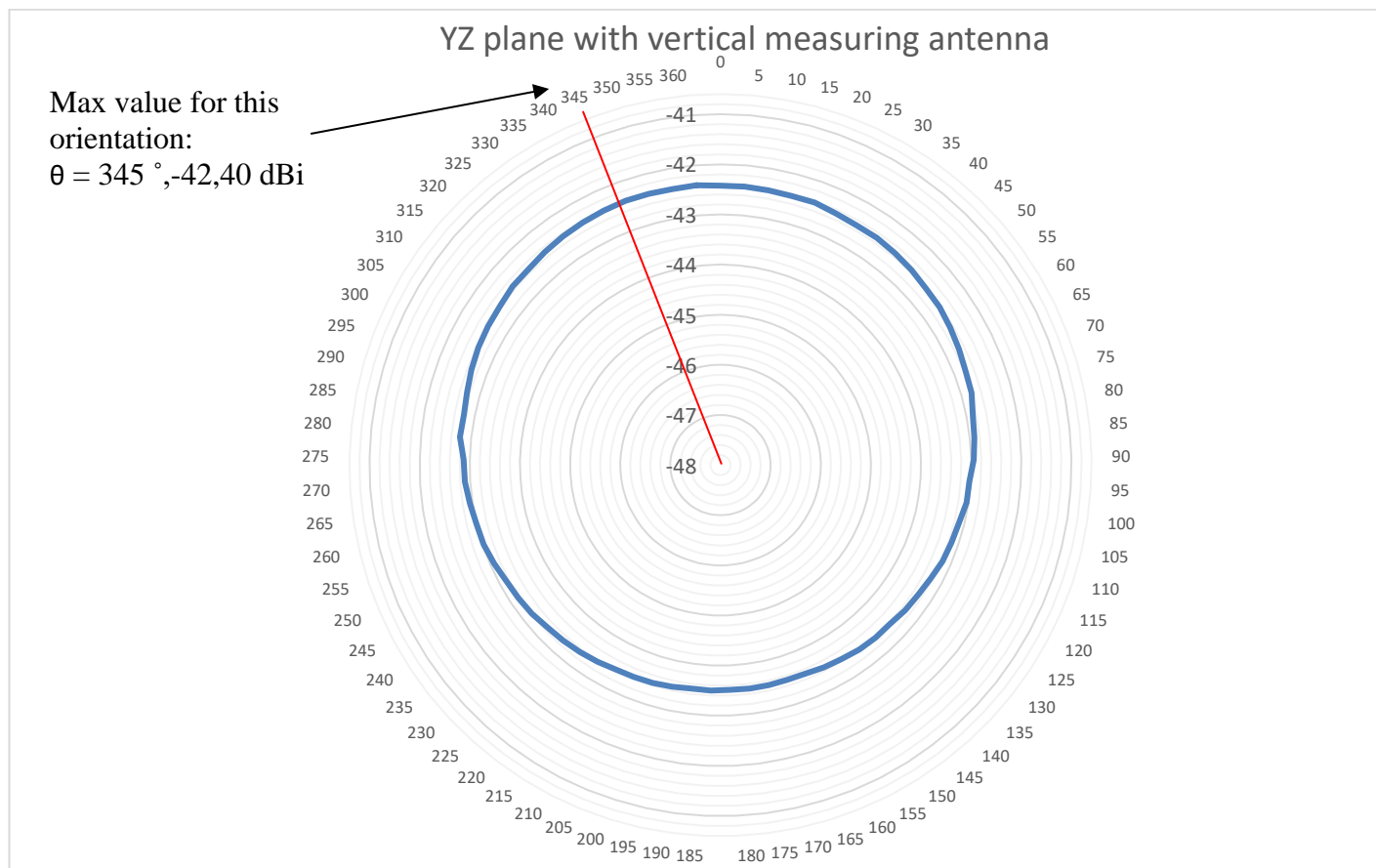
I. Results for measurements

XY plane with vertical measuring antenna



XZ plane with vertical measuring antenna





Measurement was performed with interpolation and on 3 m. Measurement was performed with supply cable (Cables hung loose). Uncertainty of measurement +/- 4 dB

Measurements device:

- R&S ZNB8 Network Analyze
- Schwarzbeck vamp 9243