

Antenna Specification

Product Model: Deco BE65-Outdoor

Manufacturer: TP-Link Systems Inc.

Date: 2025.02.14

Checked By: Xuan Shan *Xuan Shan*

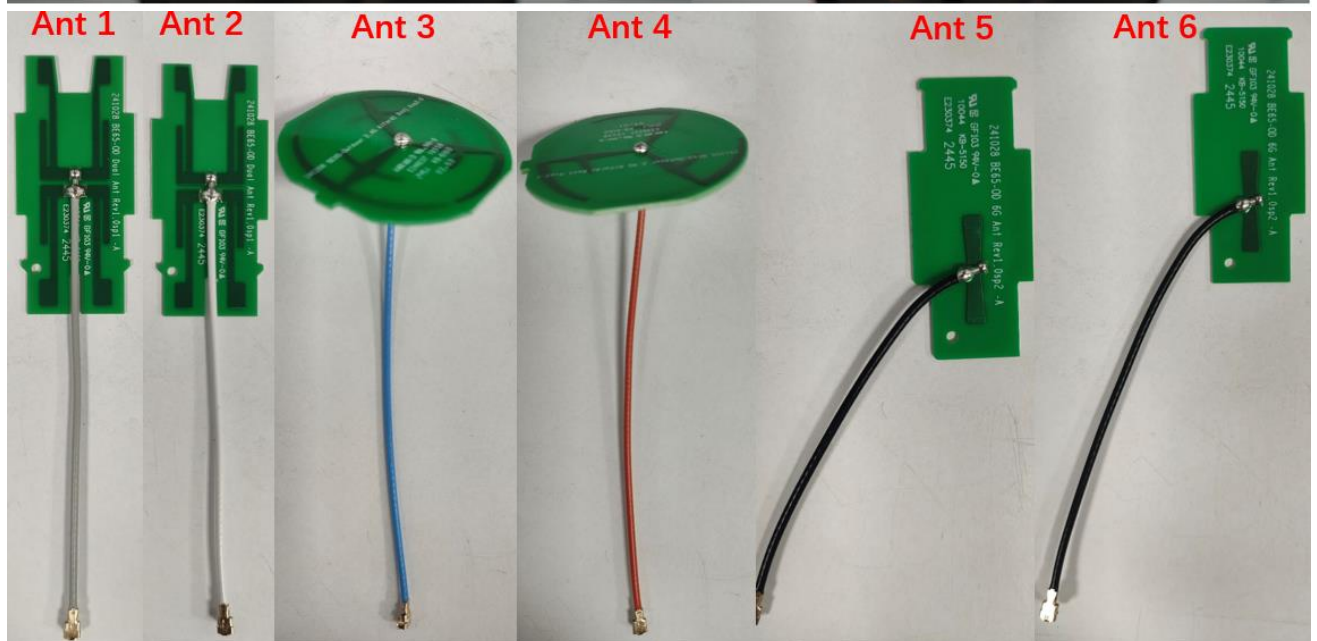
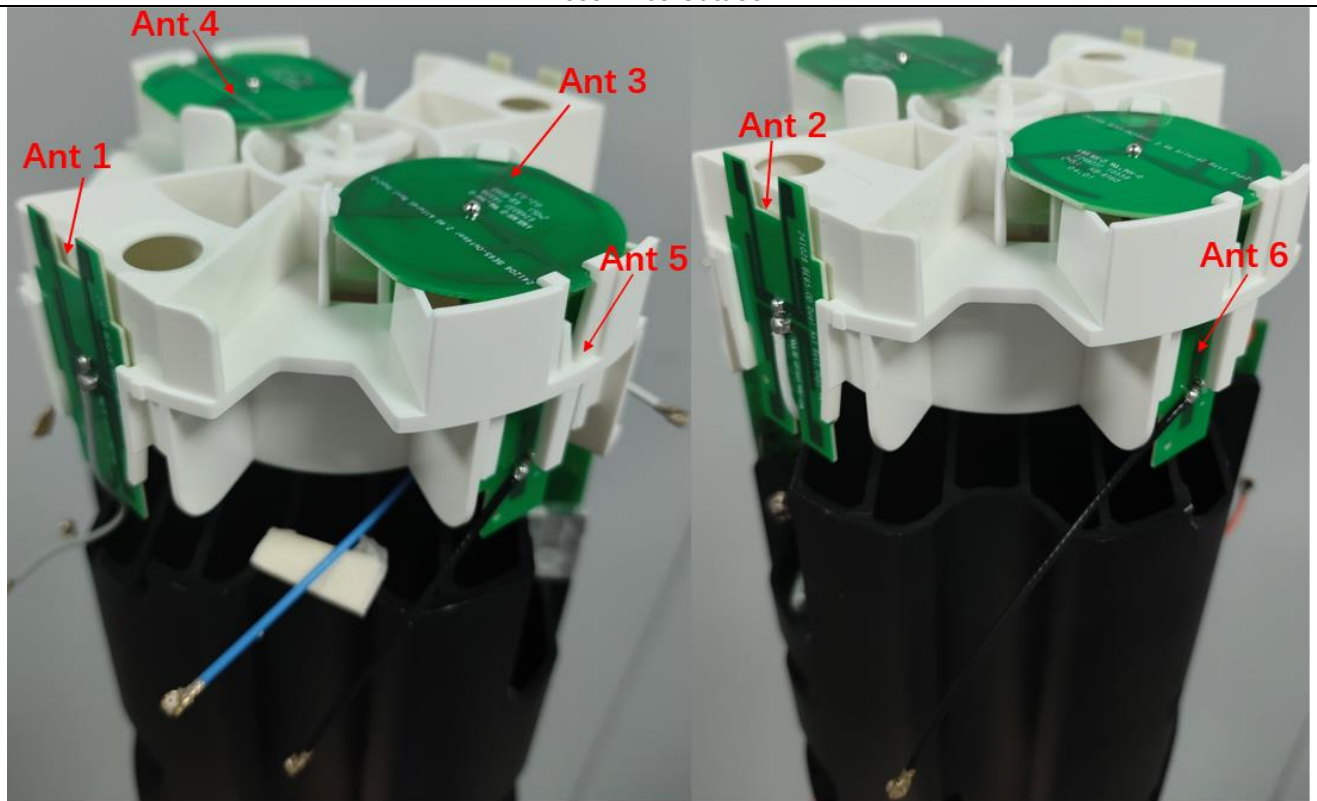
TP-Link Systems Inc.
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1. Antenna Distribution

Deco BE65-Outdoor



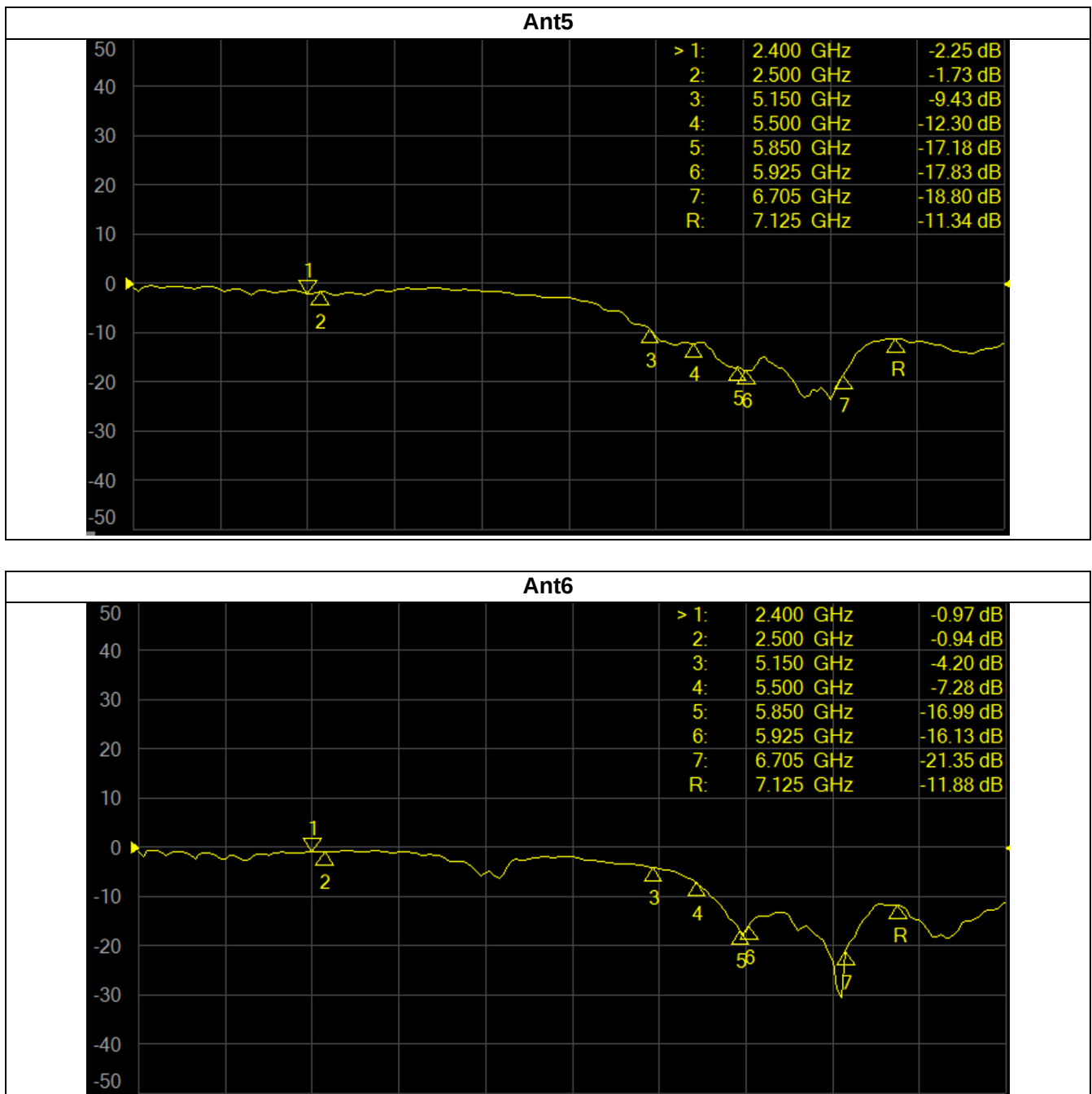
2. Electrical Characteristics

Ant5	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	4.11dBi@5925~6425MHz 3.94dBi@6425~6525MHz 5.19dBi@6525~6875MHz

	4.59dBi@6875~7125MHz
Radiation pattern	Directional
P/N	3101507453

Ant6	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	5.41dBi@5925~6425MHz 4.87dBi@6425~6525MHz 4.52dBi@6525~6875MHz 3.03dBi@6875~7125MHz
Radiation pattern	Directional
P/N	3101507454

3. S Parameter Test Data



4. Antenna Peak Gain

4.1 Peak Gain

Frequency	6.175GHz 5925~6425MHz	6.475GHz 6425~6525MHz	6.725GHz 6525~6875MHz	7.025GHz 6875~7125MHz
Ant5 MaxGain(dBi)	4.11	3.94	5.19	4.59
Ant6 MaxGain(dBi)	5.41	4.87	4.52	3.03
Max Gain(dBi)	5.41	4.87	5.19	4.59

4.2 Horizontal plane Gain

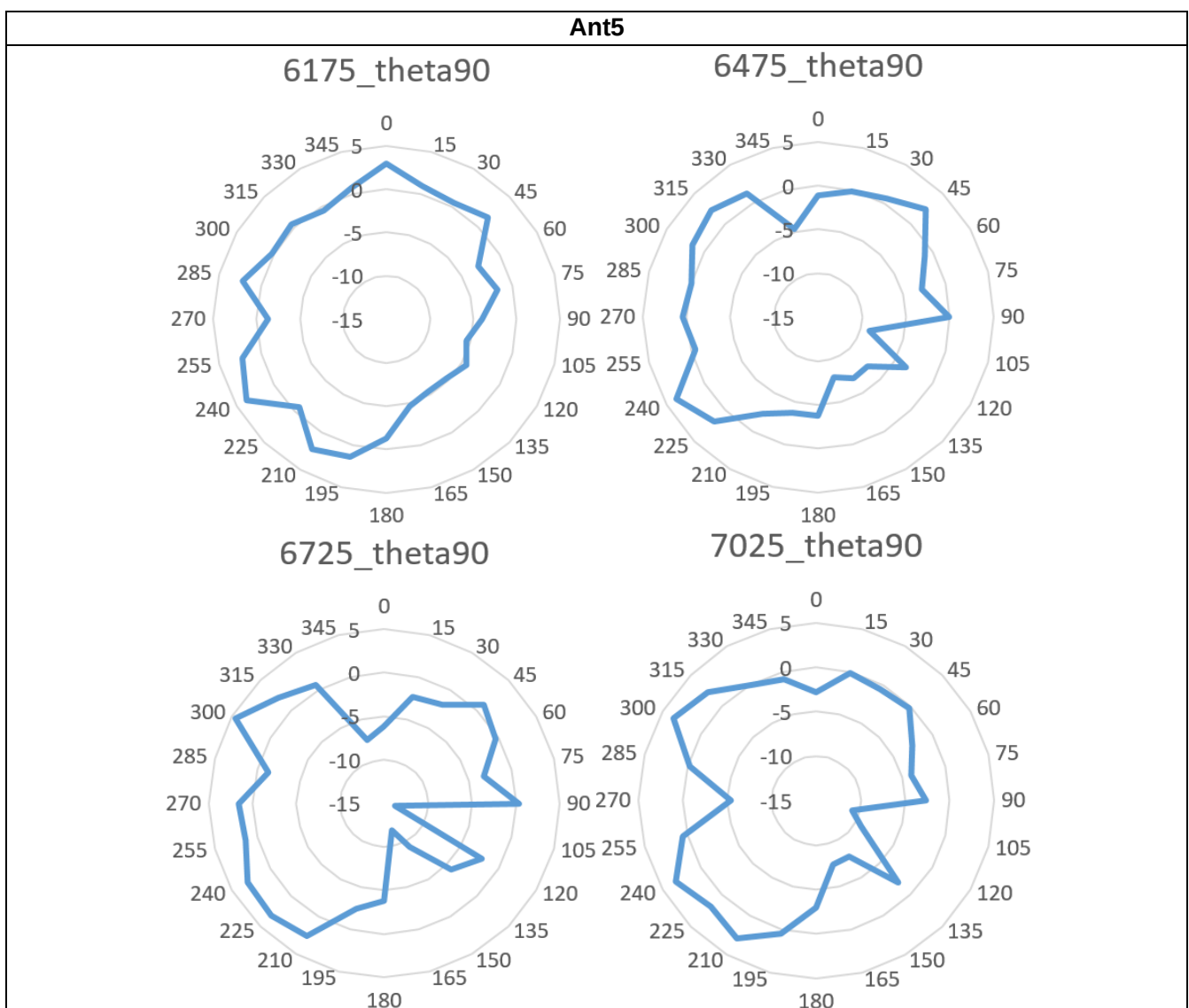
4.2.1 5925~6425MHz

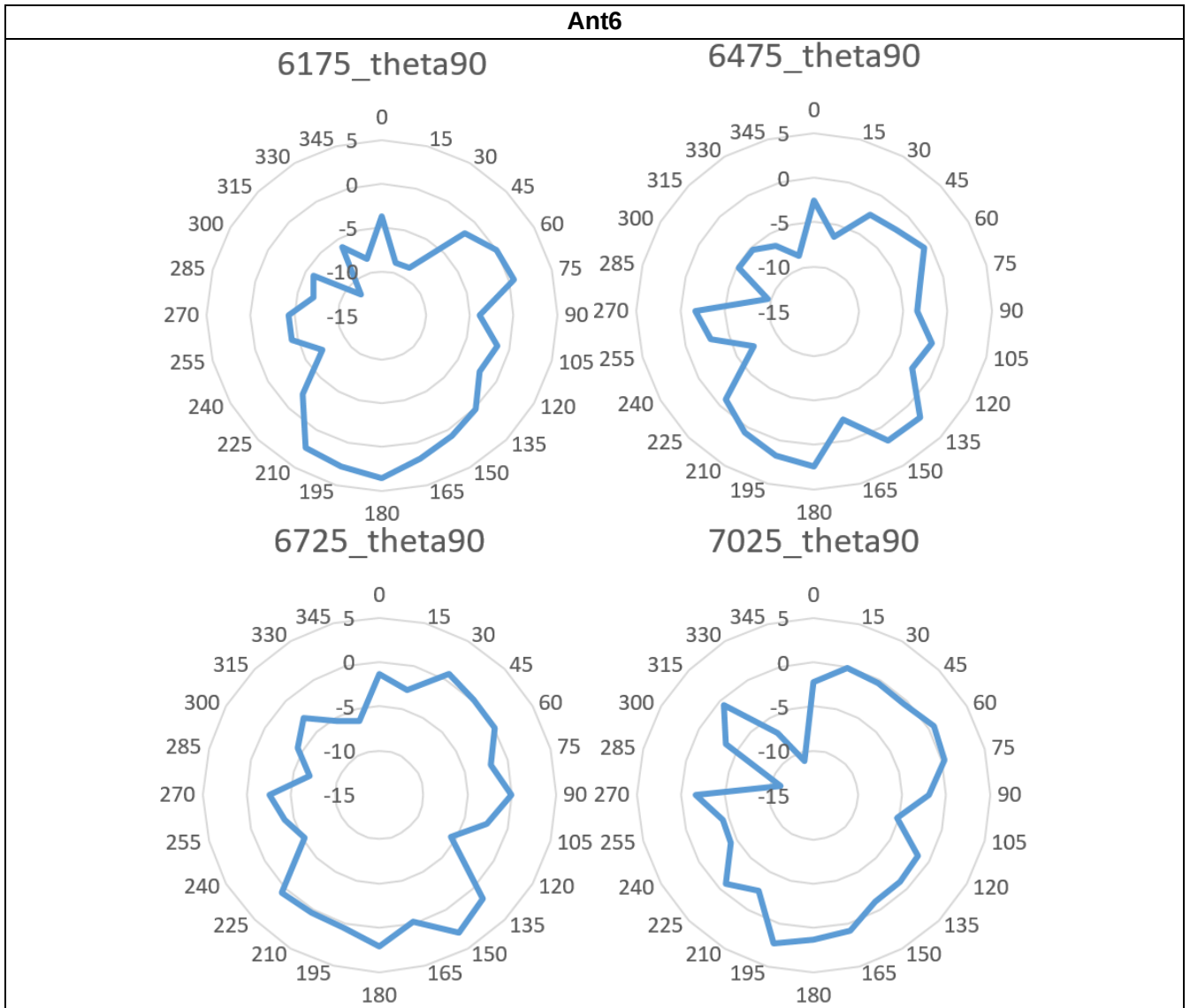
θ	>30°
Ant5 MaxGain(dBi)	-5.05
Ant6 MaxGain(dBi)	-5.00
Max Gain(dBi)	-5.00

4.2.2 6525~6875MHz

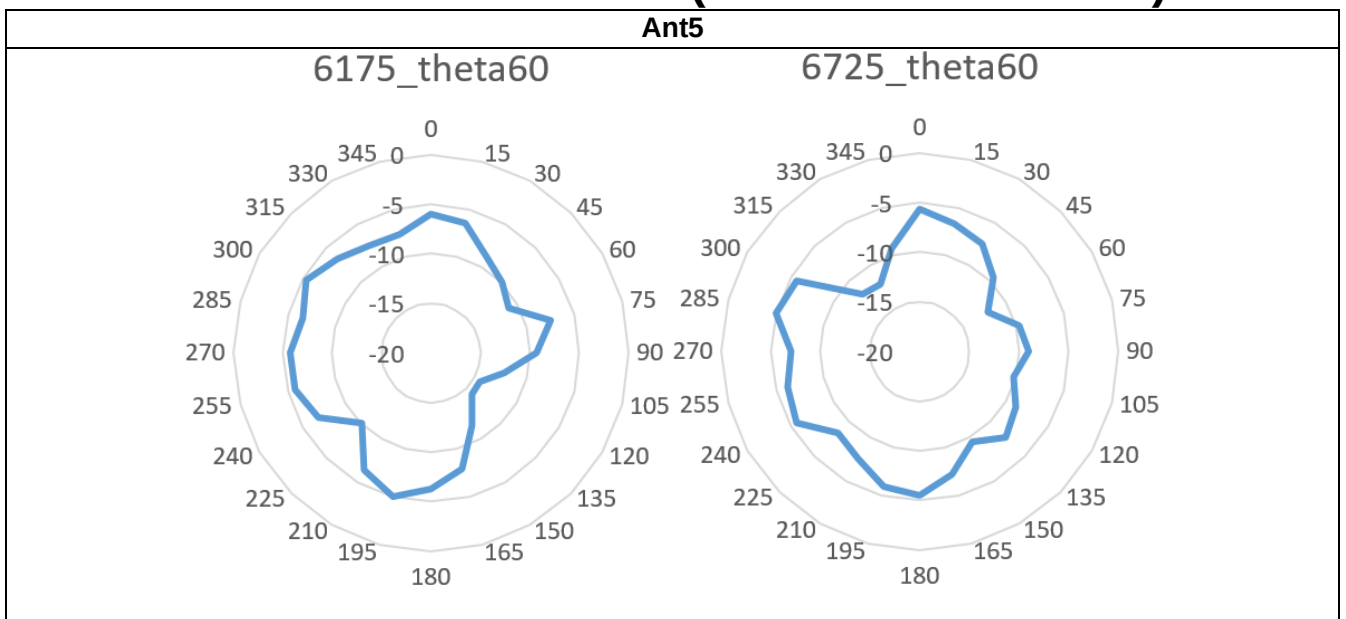
θ	>30°
Ant5 MaxGain(dBi)	-5.03
Ant6 MaxGain(dBi)	-5.02
Max Gain(dBi)	-5.02

5. Antenna Radiation Pattern



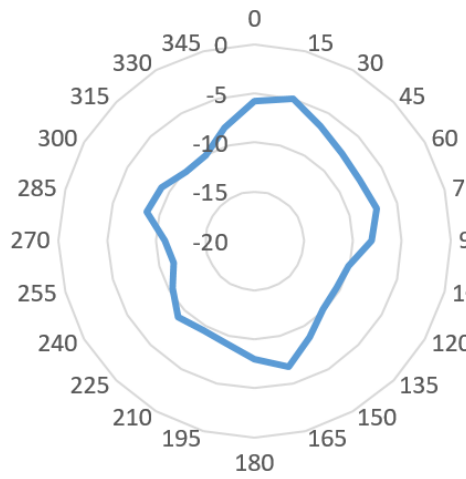


6. Antenna Radiation Pattern (above 30° elevation)



Ant6

6175_theta60



6725_theta60

