

6GHz -18GHz Planar Helical Antenna

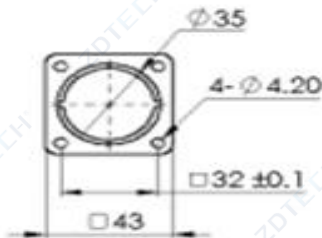
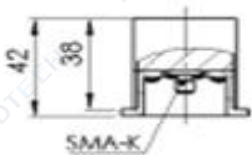
Model: ZD6183624



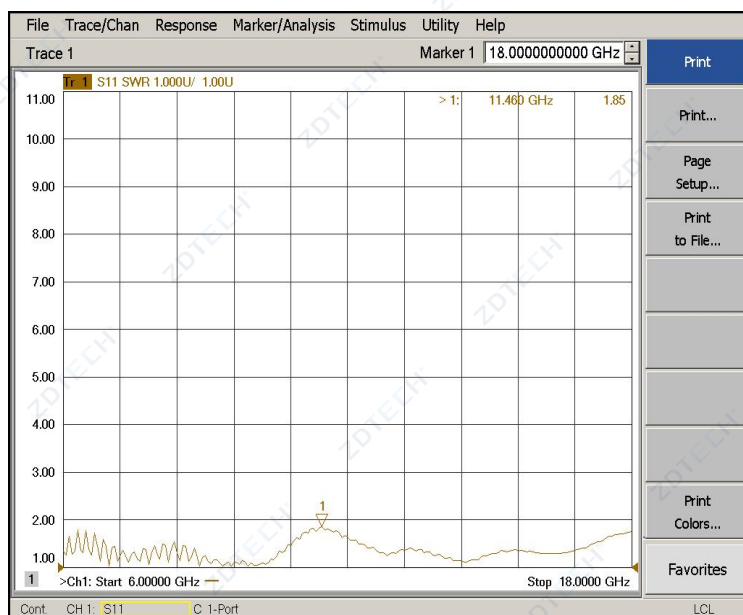
1. Technical Index

Operating frequency (GHz)	6~18
Standing wave	≤2.5
Polarization	Right-hand Circular Polarization
Beamwidth	Azimuth: ≥90° (beamwidth with absolute gain greater than or equal to -5dBi);
	Elevation: ≥90° (beamwidth with absolute gain greater than or equal to -5dBi);
	Of which: Azimuth: ≥90° (beamwidth with absolute gain greater than or equal to -1dBi @12GHz and @18GHz); Elevation: ≥90° (beamwidth with absolute gain greater than or equal to -1dBi @12GHz and @18GHz)
Reference dimensions	≤43mm × 43mm × 42mm (excluding socket)
Antenna cavity material	Aluminum alloy
Operating Temperature	-40°C to +55°C
Storage Temperature	-55°C to +70°C
Interface	SMA-50K (stainless steel)
Gain (Normal)	≥3dBi, including ≥6dBi (@12GHz)
Color	Military Green
Weight	≤0.07kg

2. Dimensions (Unit: mm)



3. VSWR

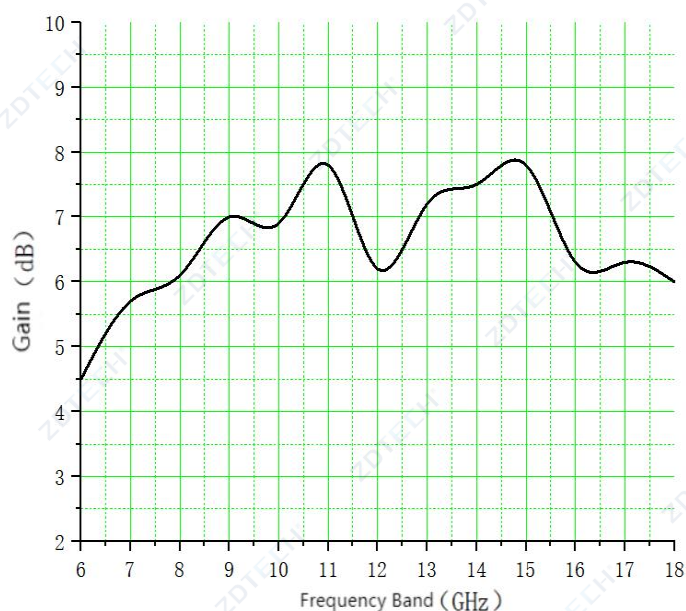


4. Beamwidth

Operating Frequency (GHz)	3dB Beamwidth(°)
6.0	67.9
8.0	76.1
10.0	74.3
12.0	47.5
14.0	46.4
16.0	100.6
18.0	96.2

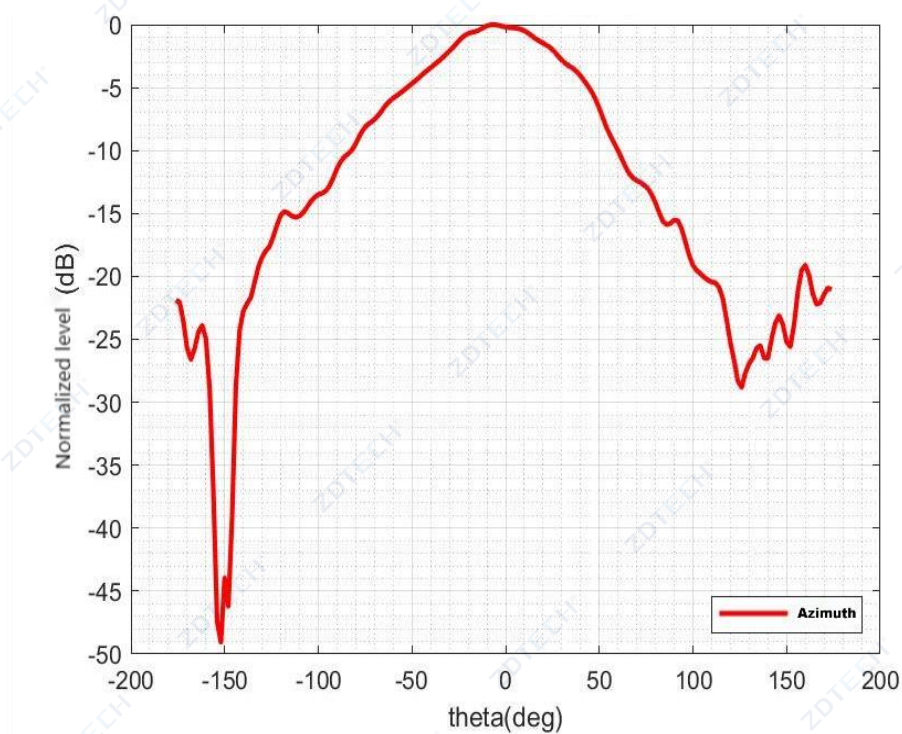
5. Gain Curve

6-18GHz Helical Antenna Gain Curve

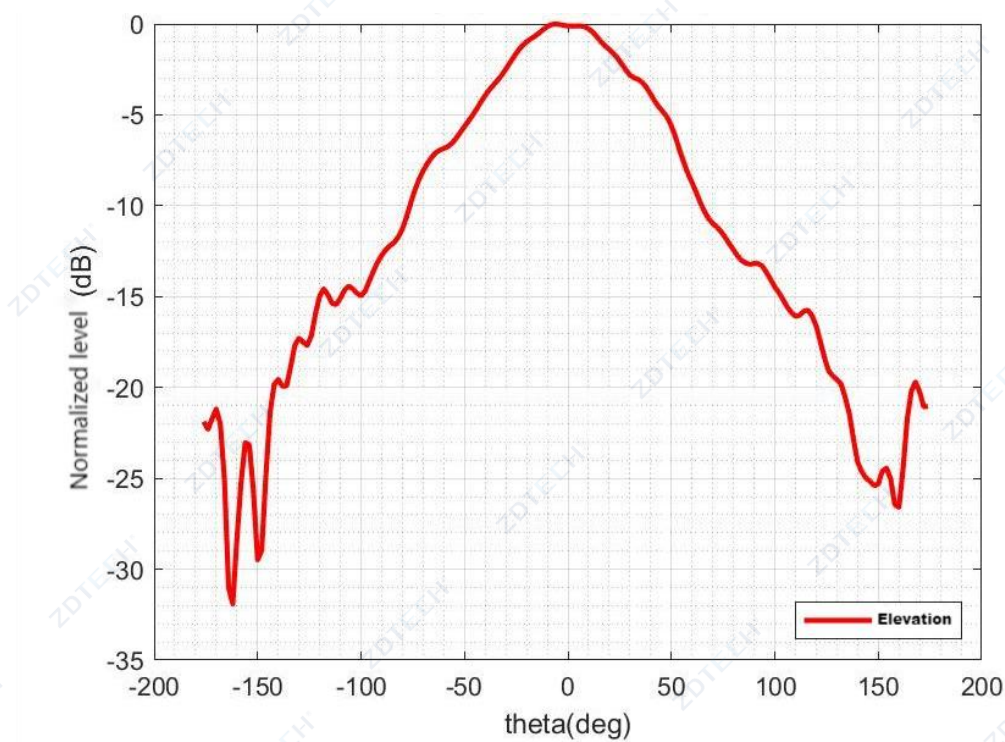


6. Typical Directional Pattern

6GHz Directional Pattern



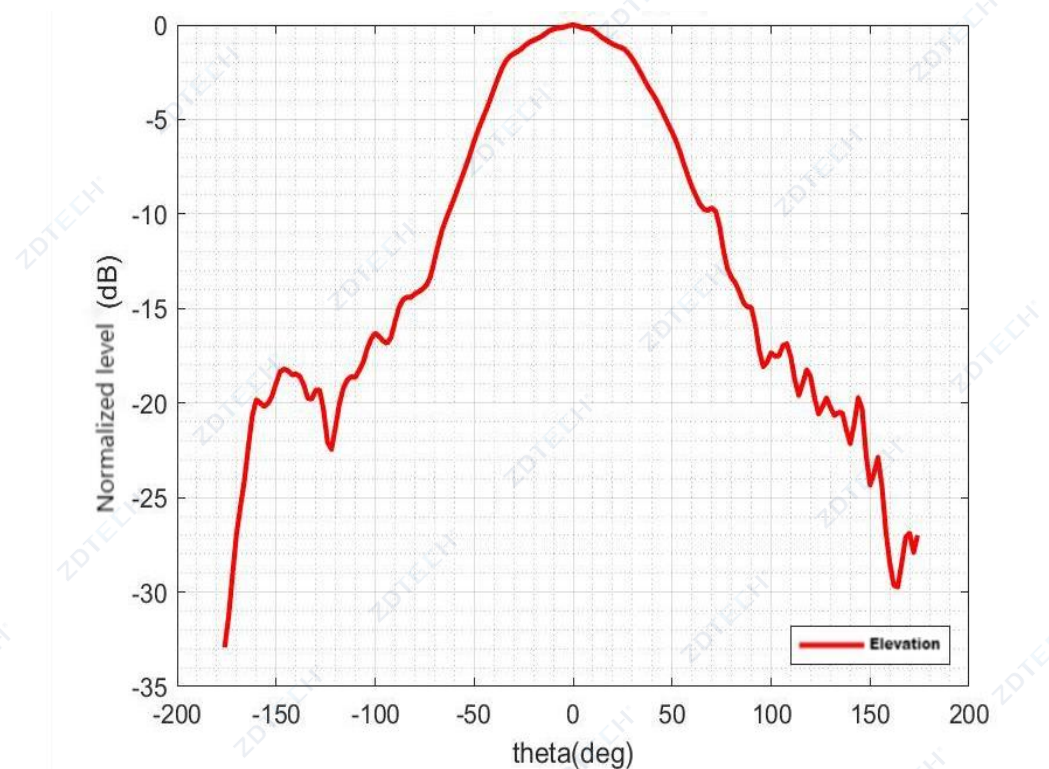
6GHz Directional Pattern



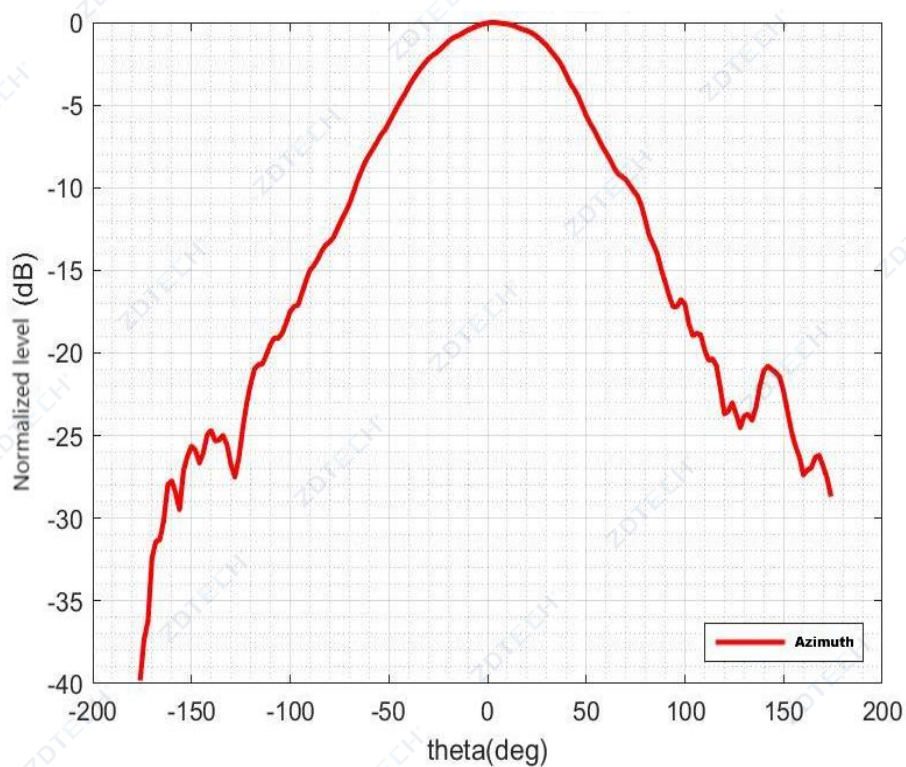
8GHz Directional Pattern



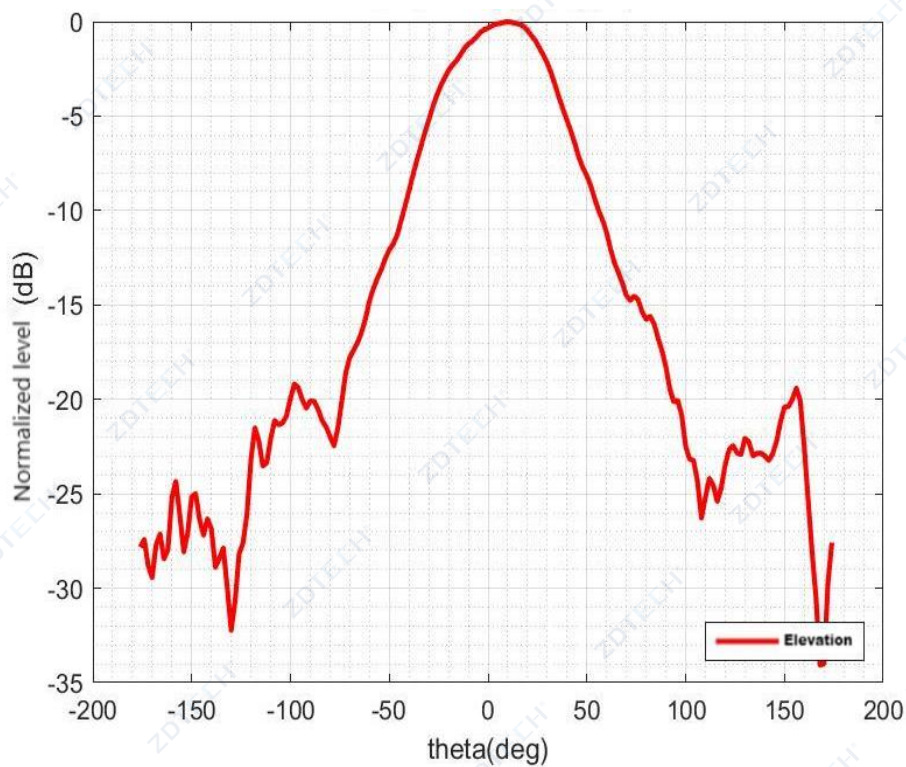
8GHz Directional Pattern



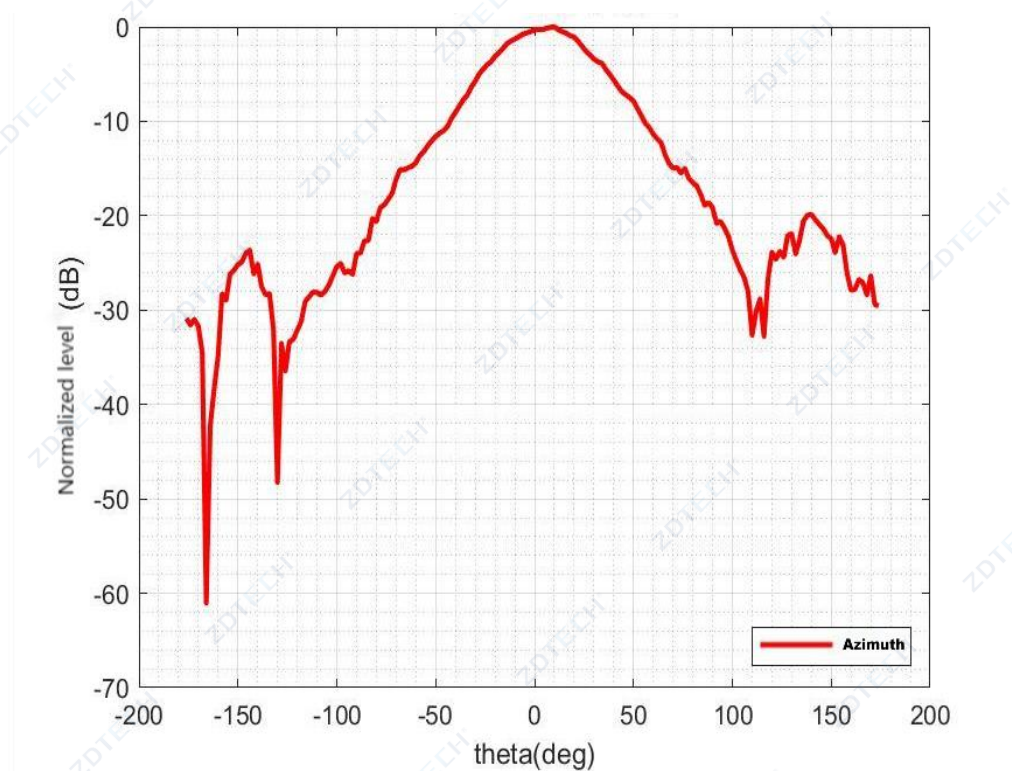
10GHz Directional Pattern



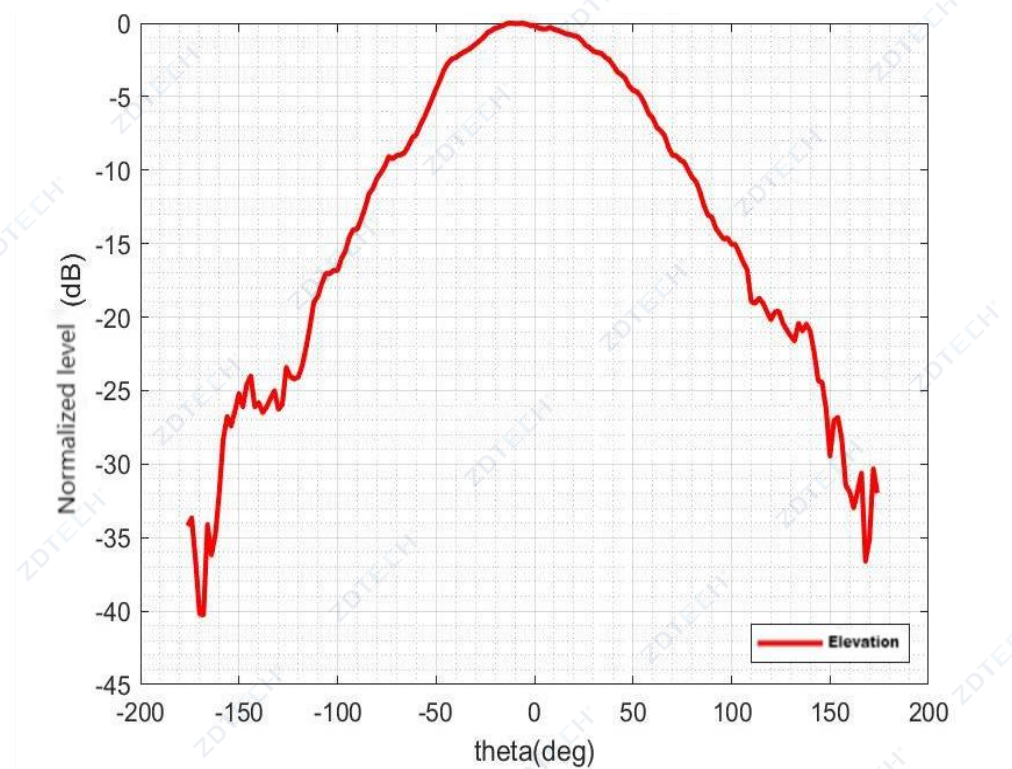
10GHz Directional Pattern



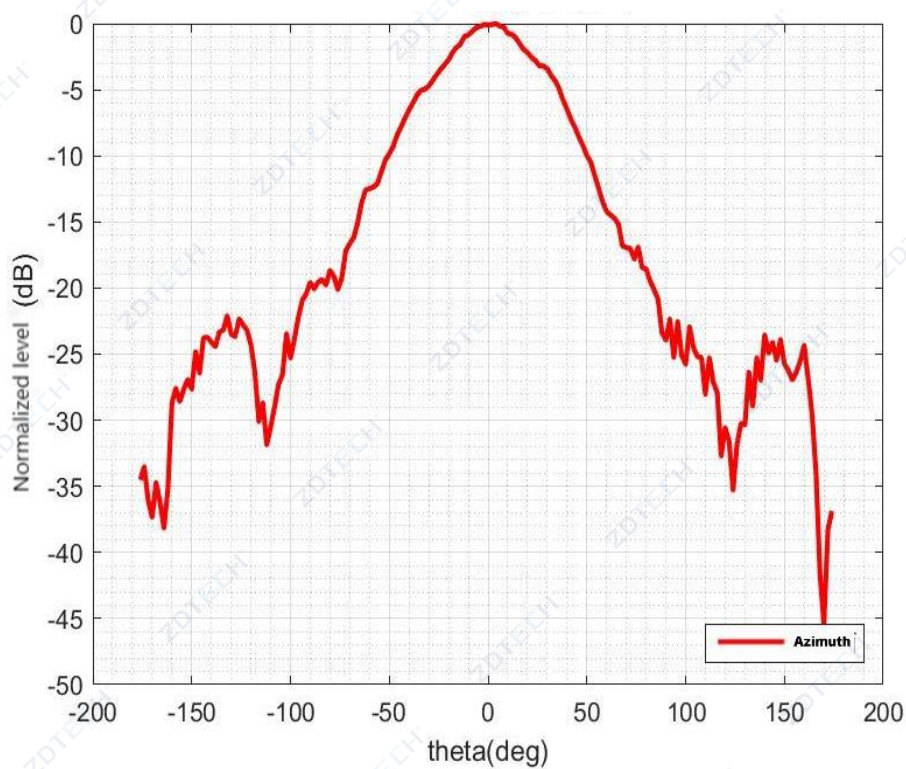
12GHz Directional Pattern



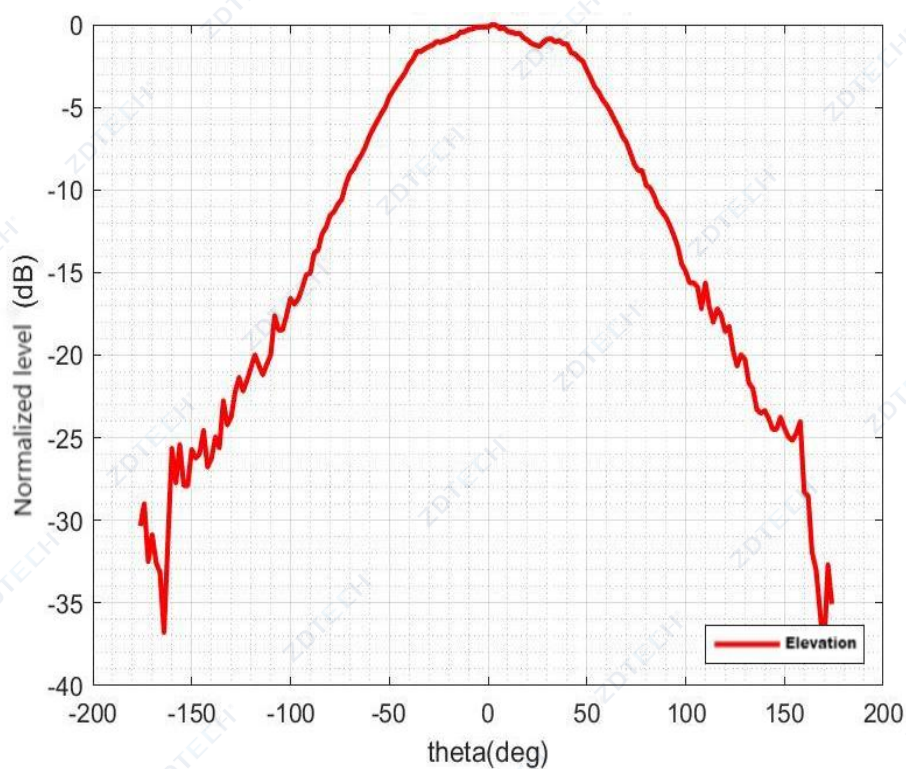
12GHz Directional Pattern



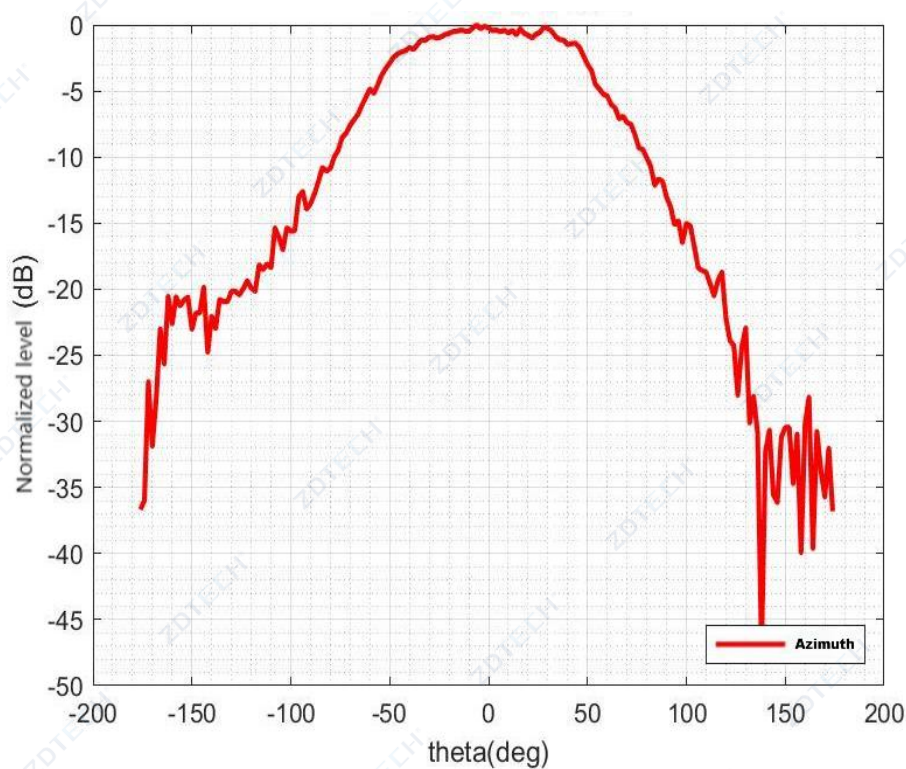
14GHz Directional Pattern



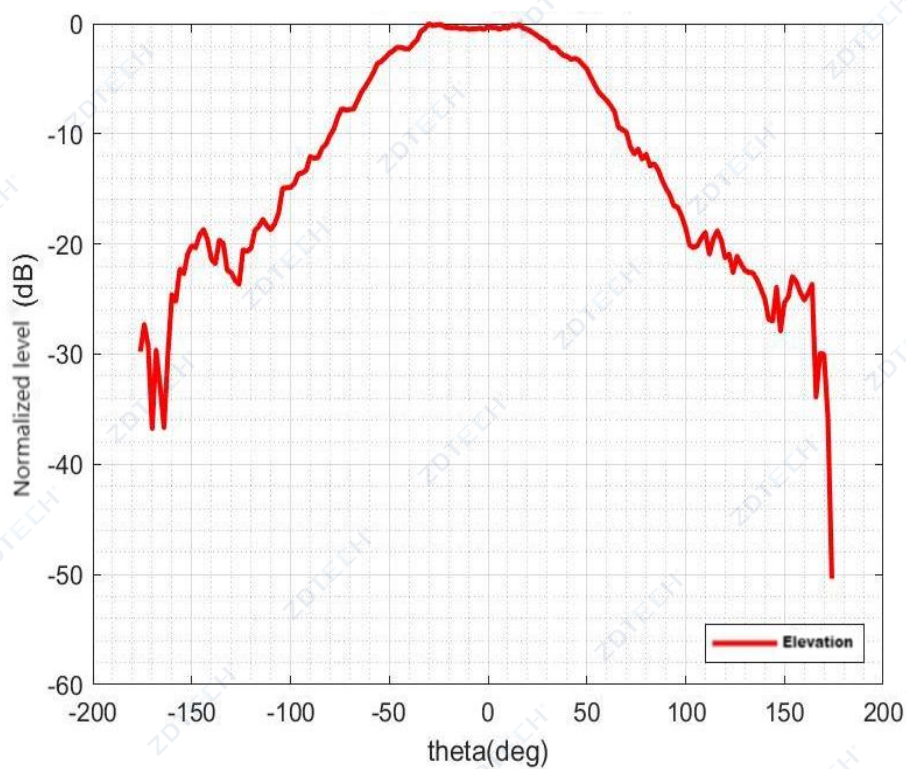
14GHz Directional Pattern



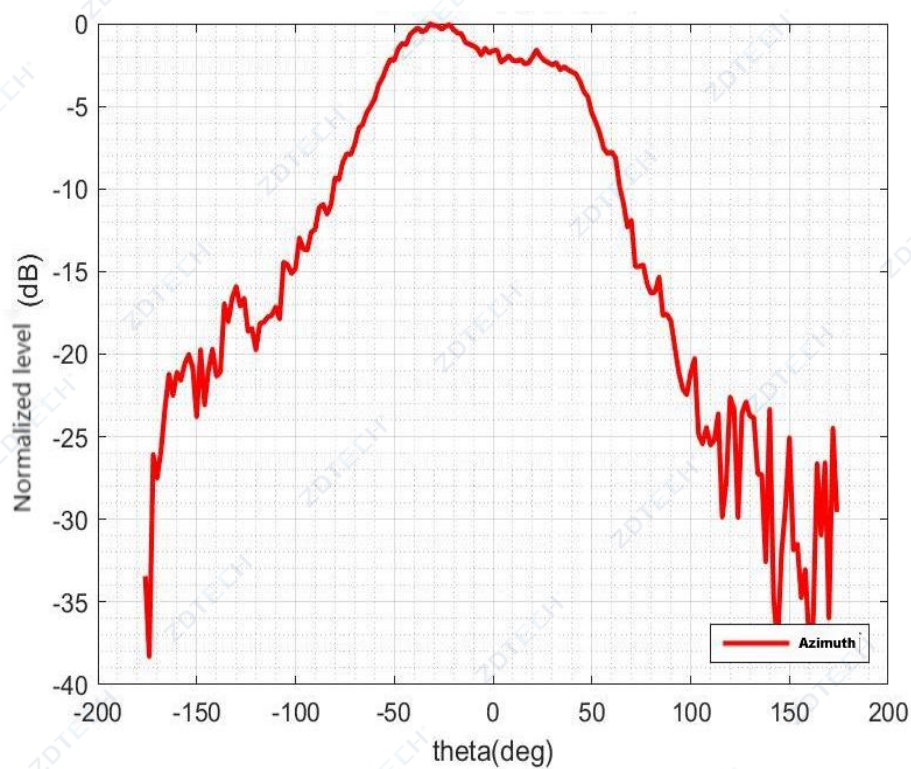
16GHz Directional Pattern



16GHz Directional Pattern



18GHz Directional Pattern



18GHz Directional Pattern

