

6GHz -18GHz Planar Helical Antenna

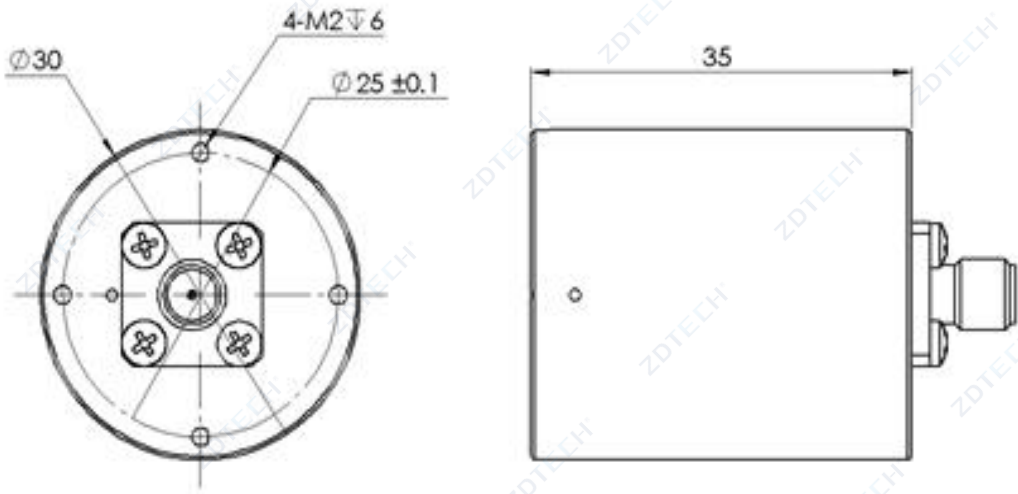
Model: ZD0618



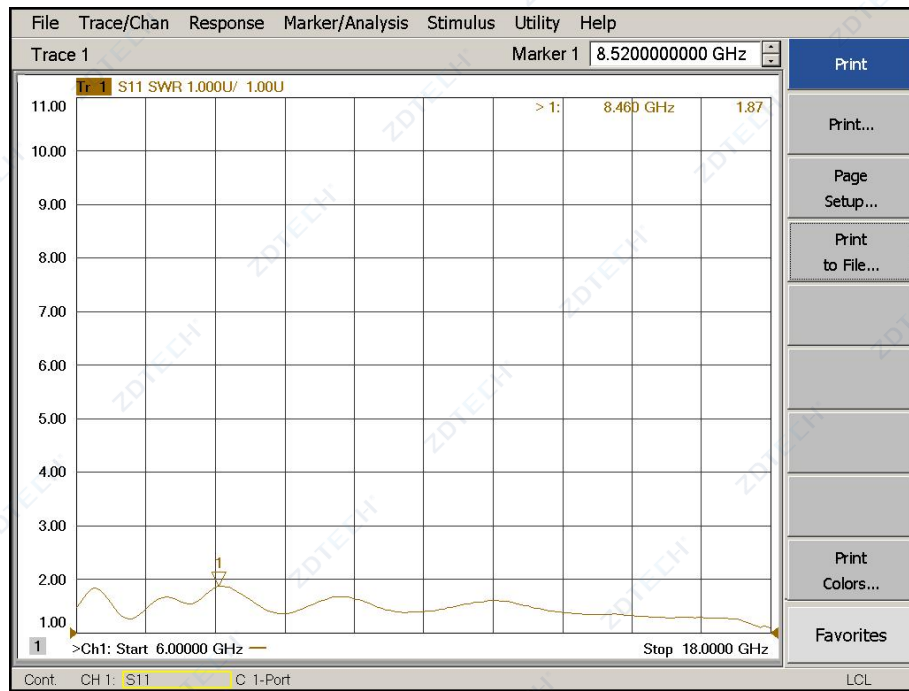
1. Technical Index

Operating frequency (GHz)	6-18
Standing Wave	≤2.5
Polarization	Right-hand circular polarization
Gain and beamwidth	Gain within ±45° in azimuth: ≥ -4.5dBi; Gain within ±45° in elevation: ≥ -4.5dBi.
Reference dimensions	≤30mm × 35mm (excluding socket)
Antenna cavity material	Aluminum alloy
Operating Temperature	-50°C to +65°C
Storage Temperature	-50°C to +65°C
Interfaces	SMA-K Type (316L Stainless Steel)
Color	Gray
Weight	≤45g

2. Dimensions (Unit: mm)



3. Standing Wave

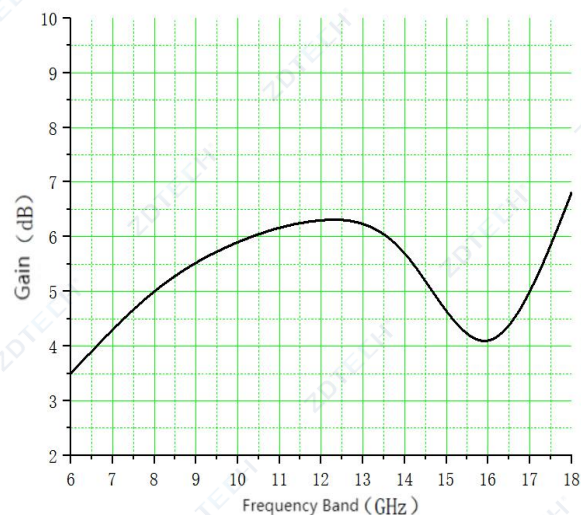


4. Beamwidth

Operating Frequency (GHz)	3dB Beamwidth(°)
6.0	76.8
8.0	61.7
10.0	77.1
12.0	65.5
14.0	48.2
16.0	75.1
18.0	69.1

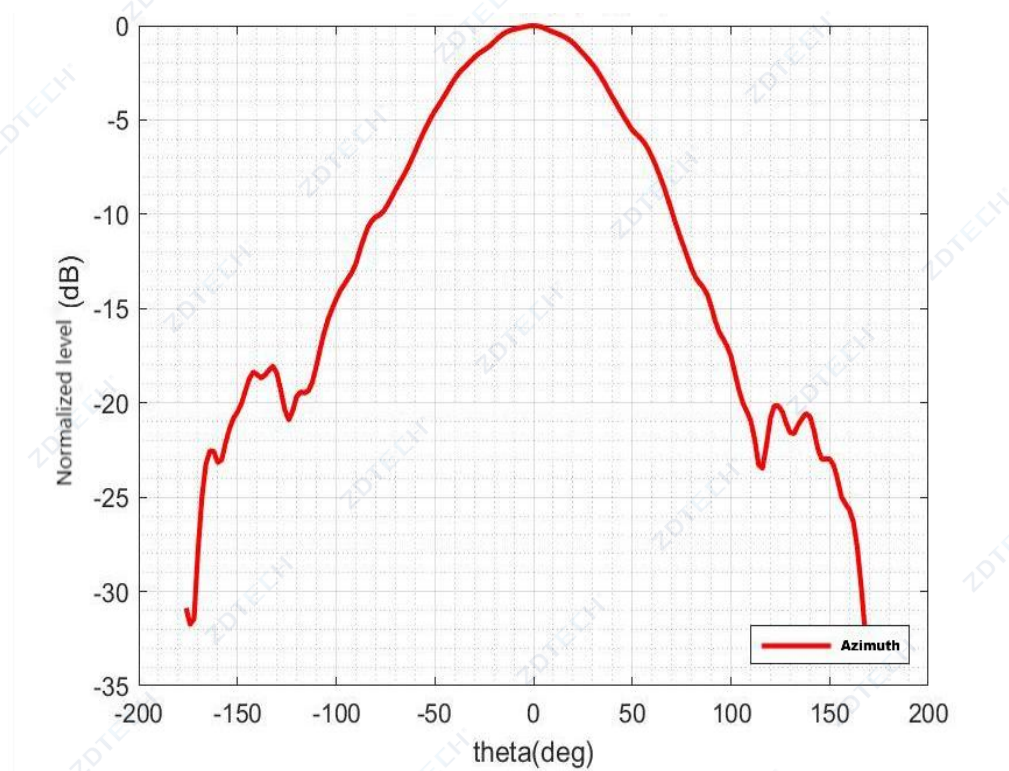
5. Gain Curve

6-18GHz Helical Antenna Gain Curve

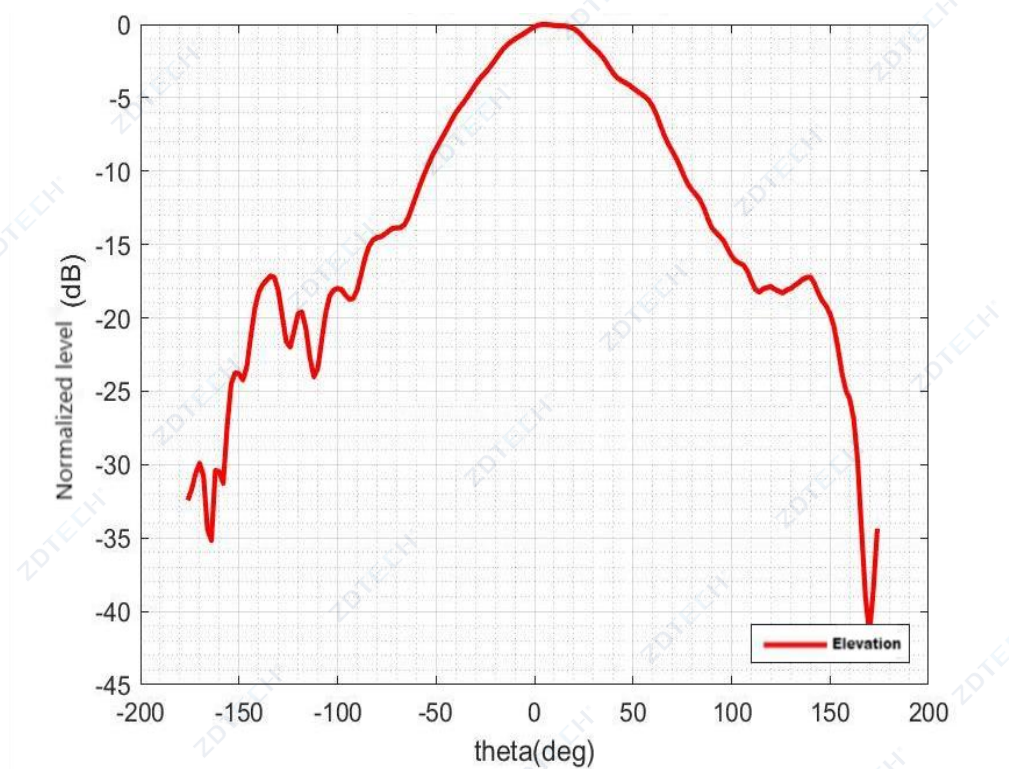


6. Typical Directional Pattern

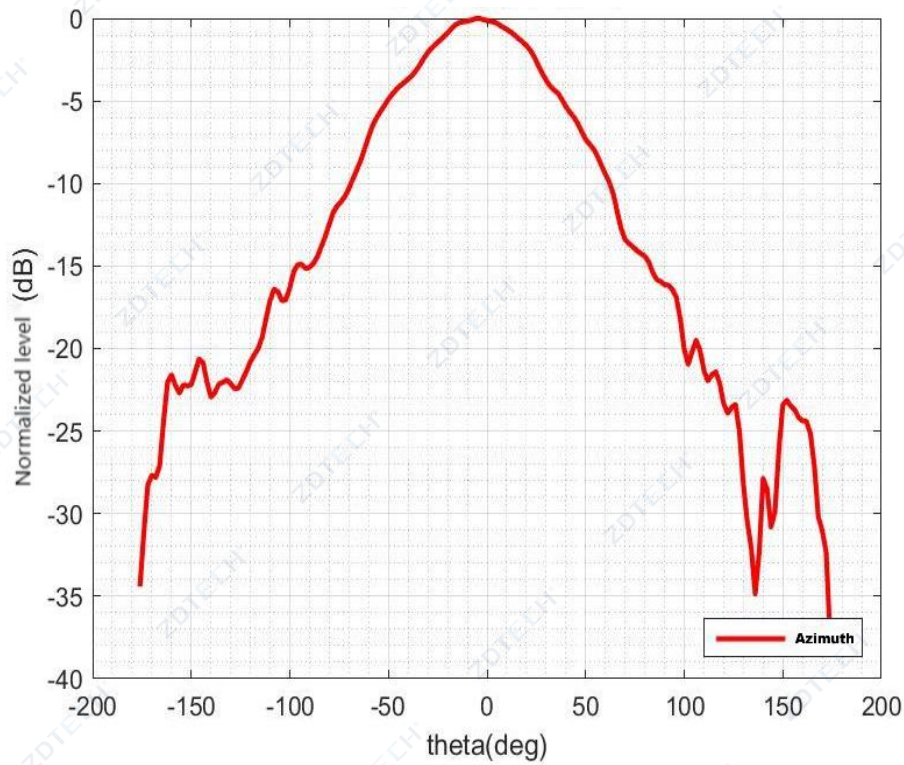
6GHz Directional Pattern



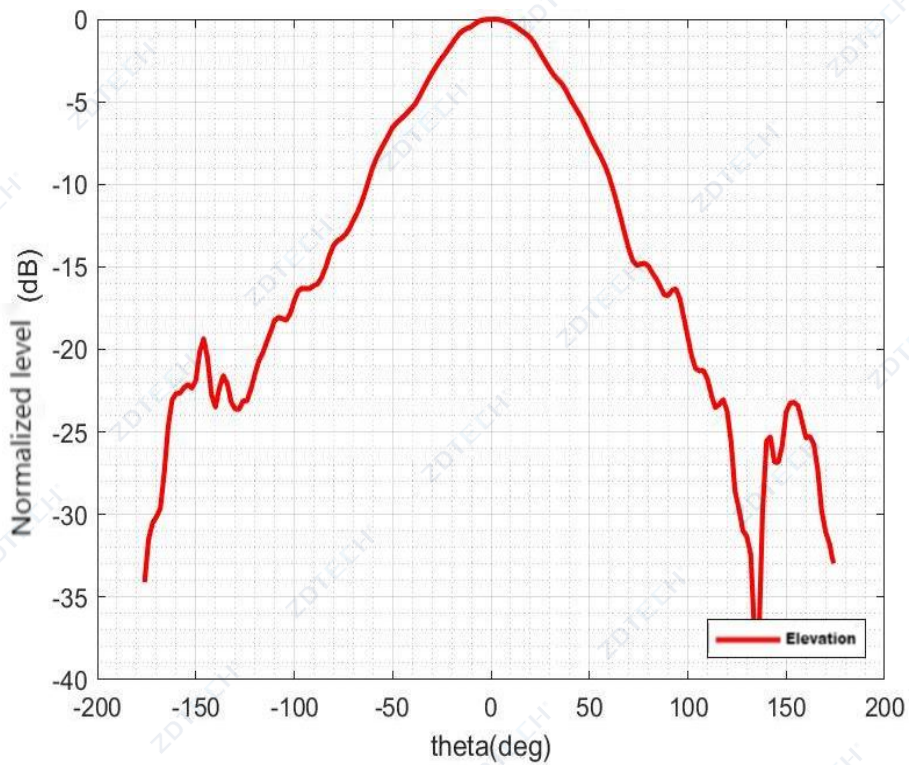
6GHz Directional Pattern



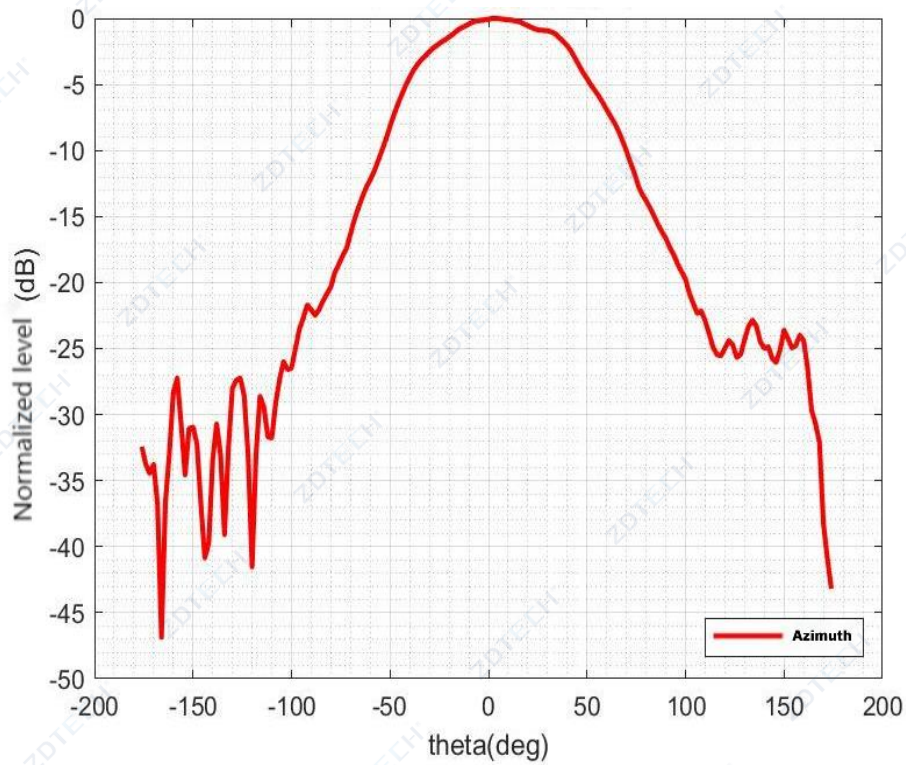
8GHz Directional Pattern



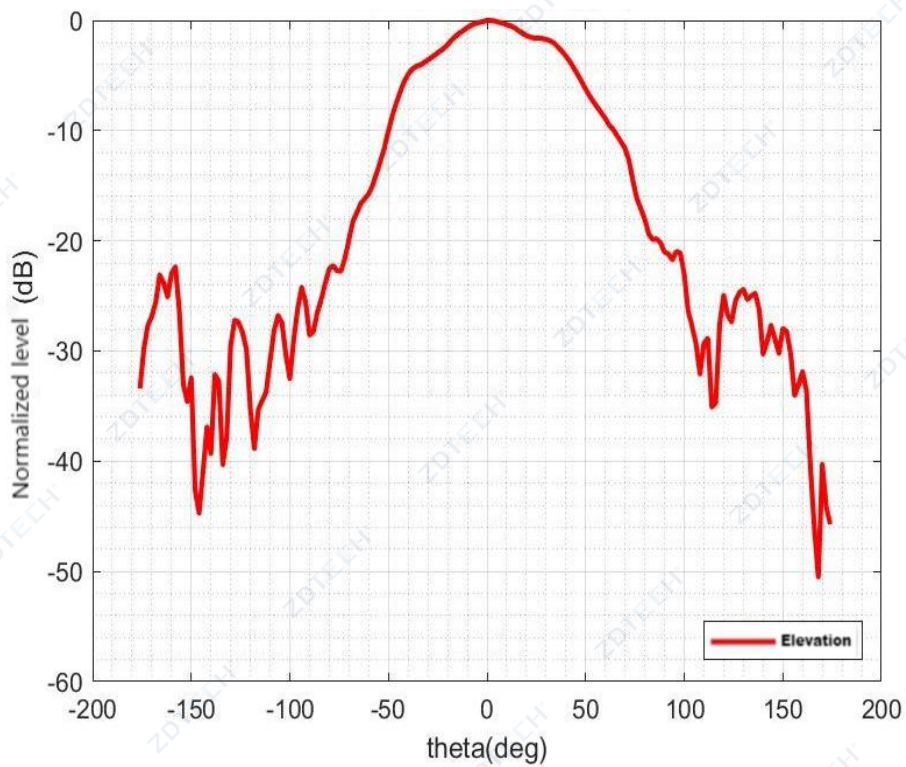
8GHz Directional Pattern



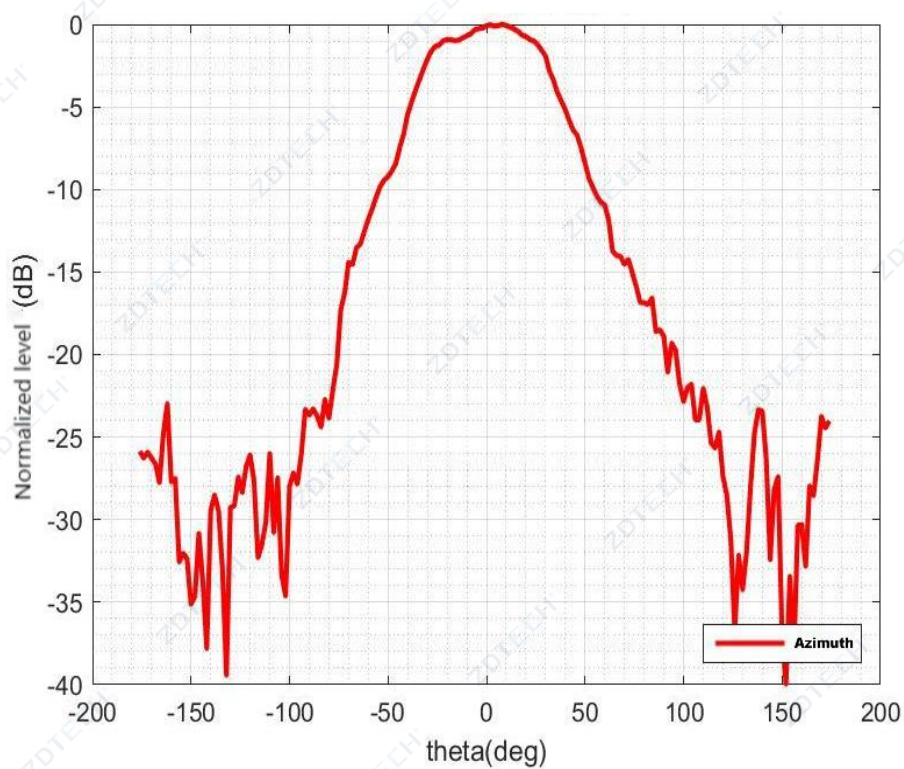
10GHz Directional Pattern



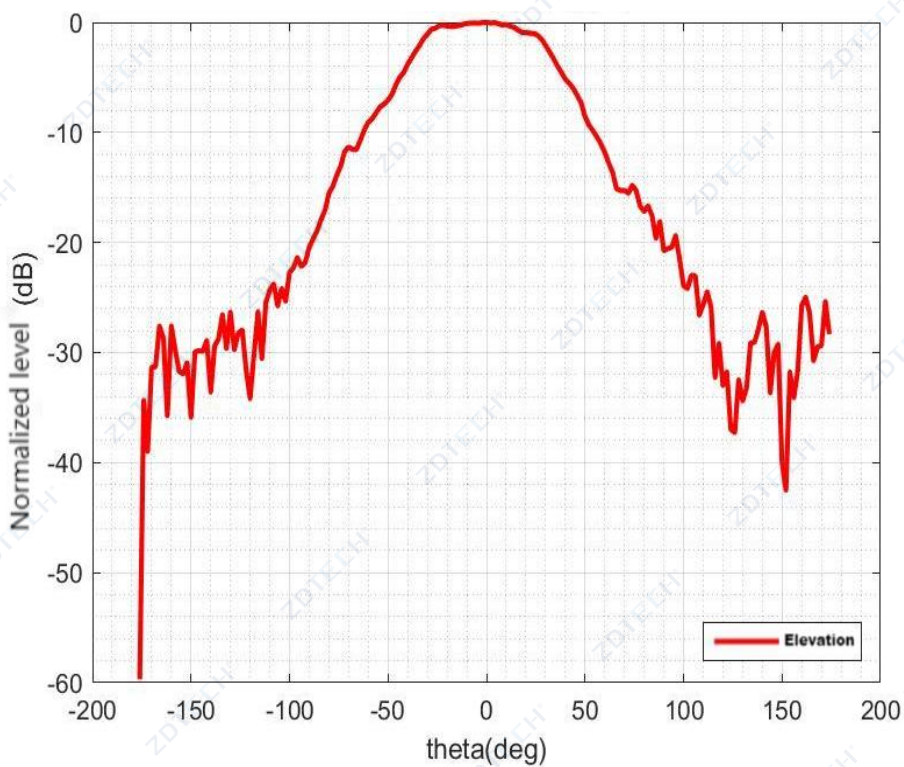
10GHz Directional Pattern



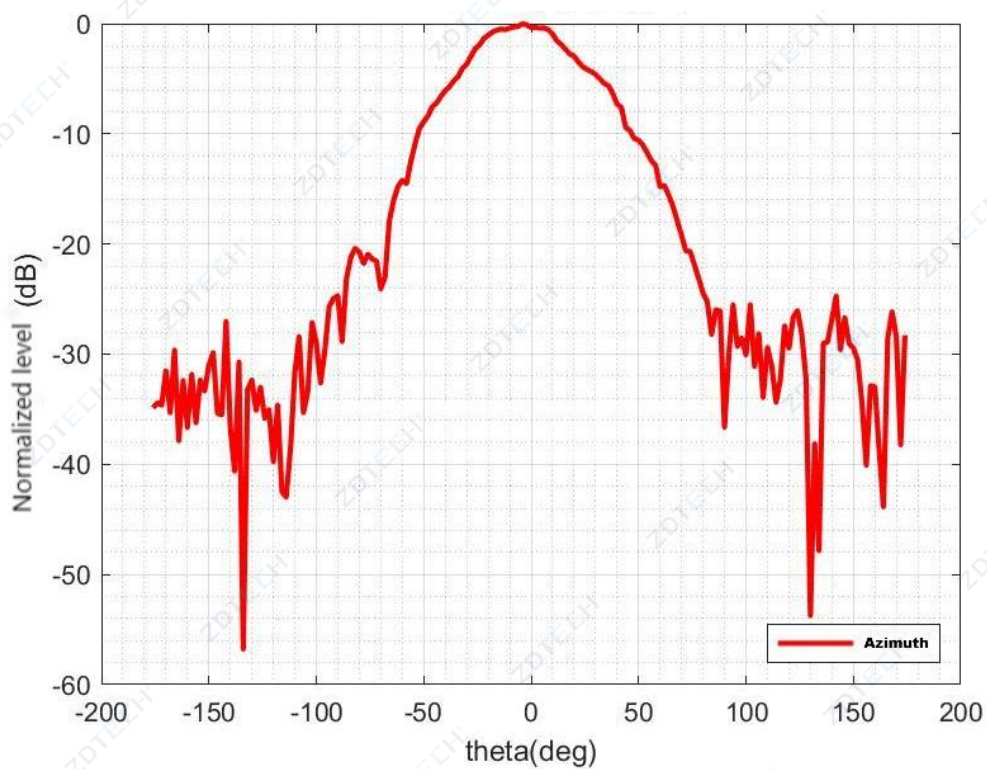
12GHz Directional Pattern



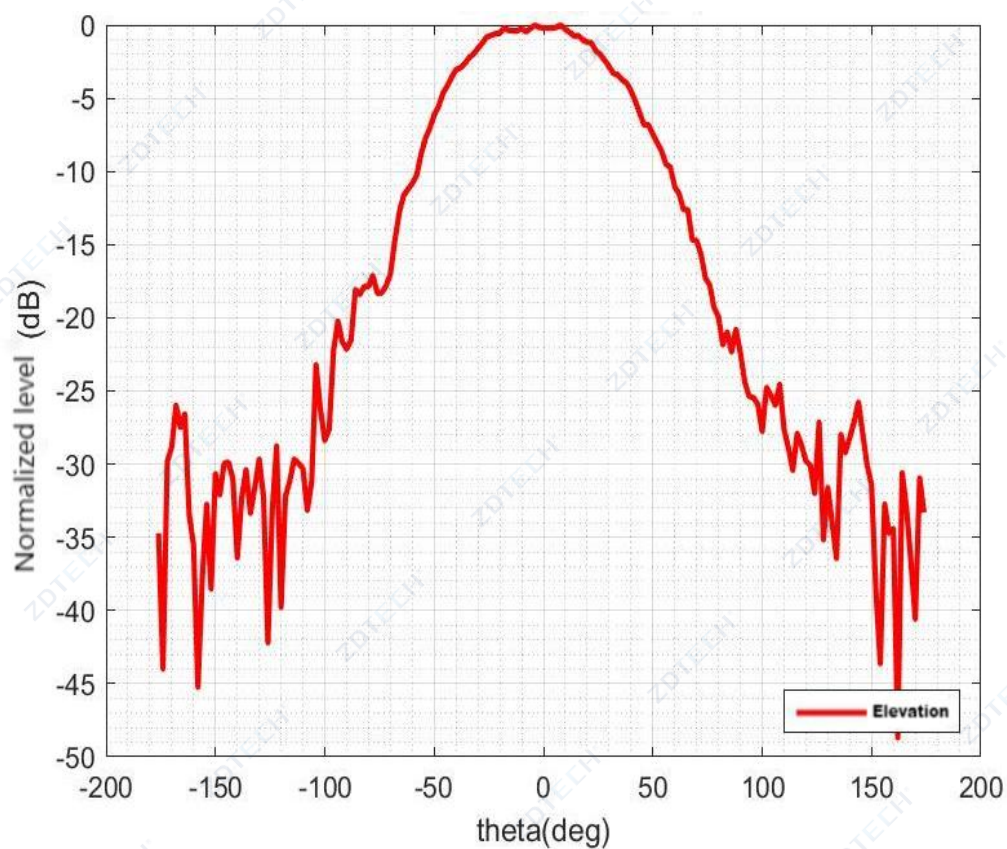
12GHz Directional Pattern



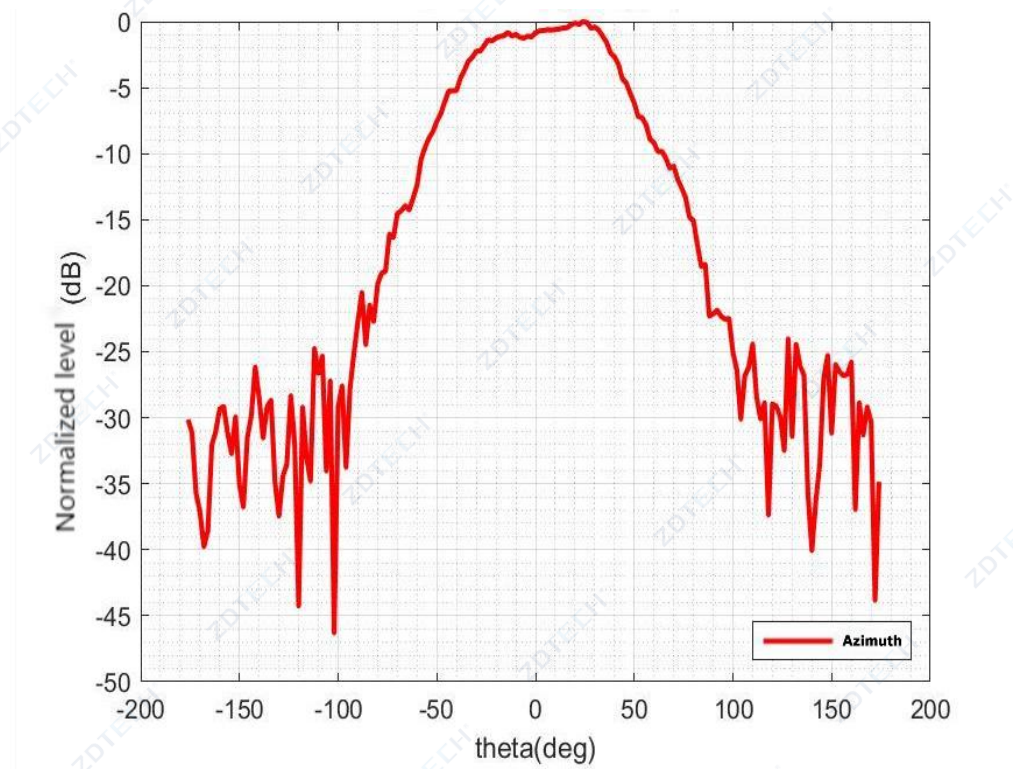
14GHz Directional Pattern



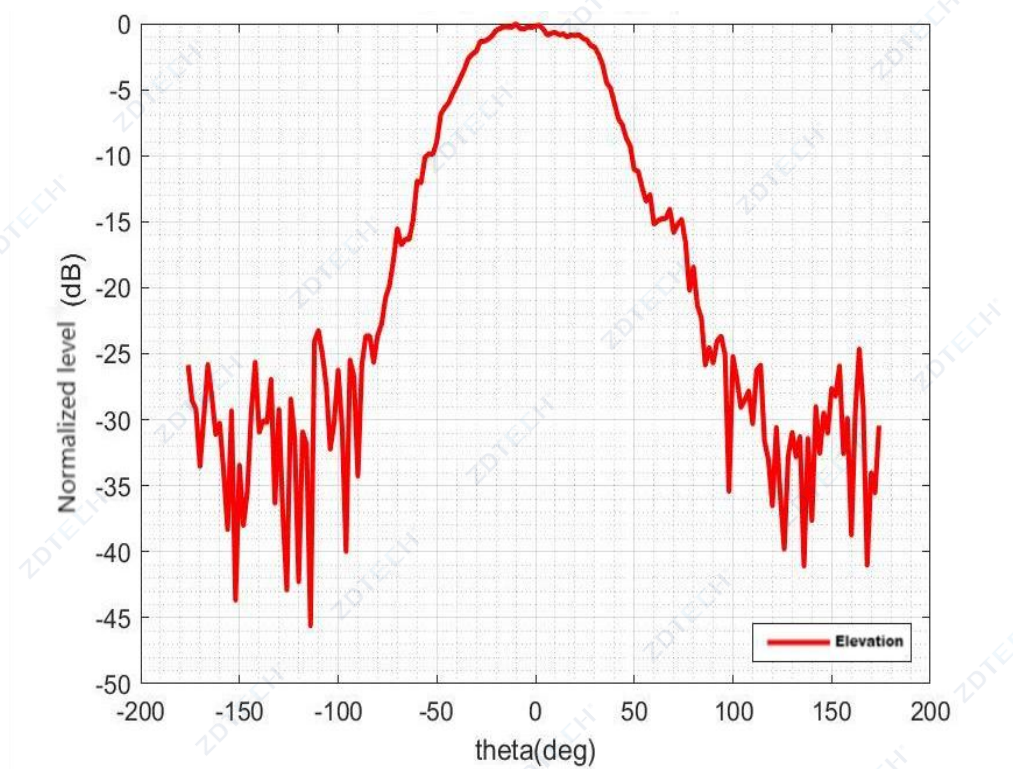
14GHz Directional Pattern



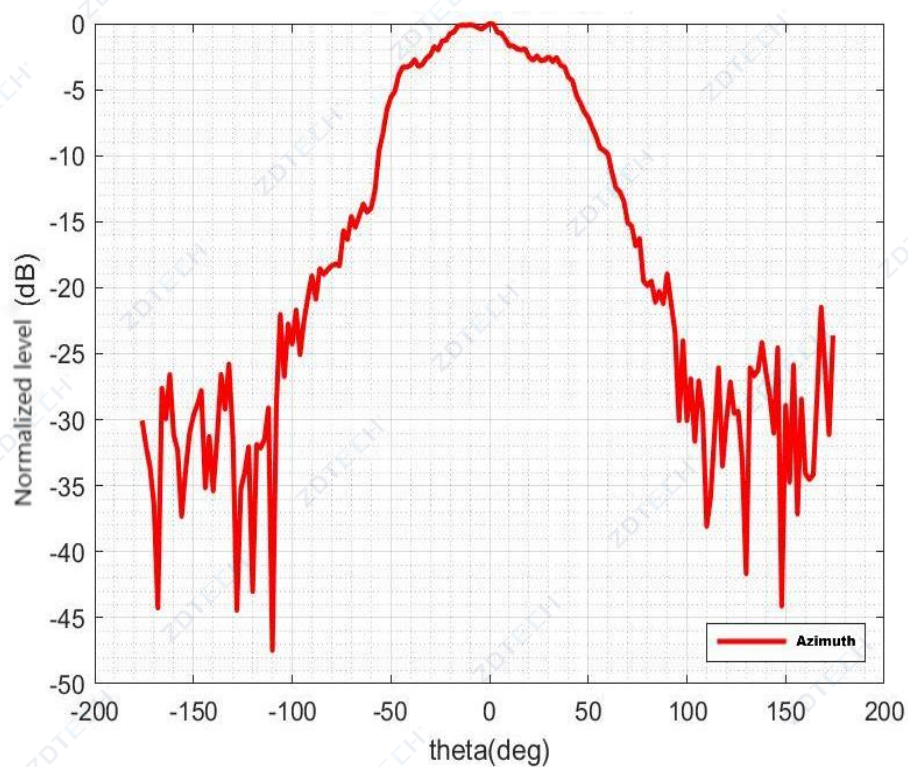
16GHz Directional Pattern



16GHz Directional Pattern



18GHz Directional Pattern



18GHz Directional Pattern

