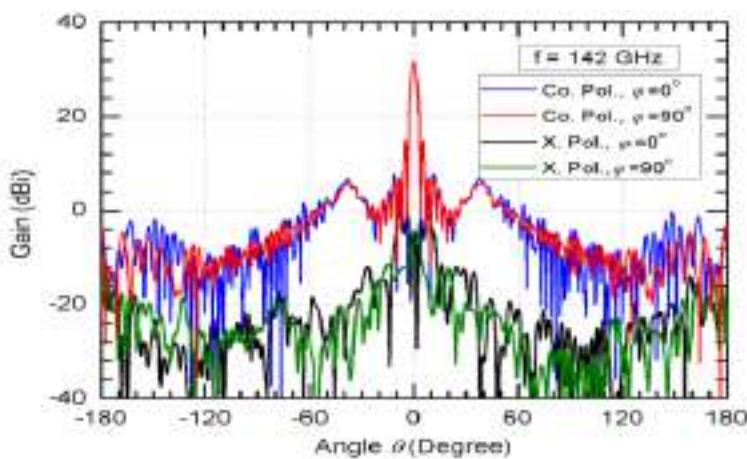


Elliptic Lens Antenna at D-Band

- Frequency = 110–170 GHz
- Lens diameter = 60 mm
- Overall Antenna Dia. = 75 mm
- Height = 100 mm
- Gain ~ 32 dBi
- 3dB beamwidths ~ 3.2° x 3.2°
- Side-lobe levels ~20 dB

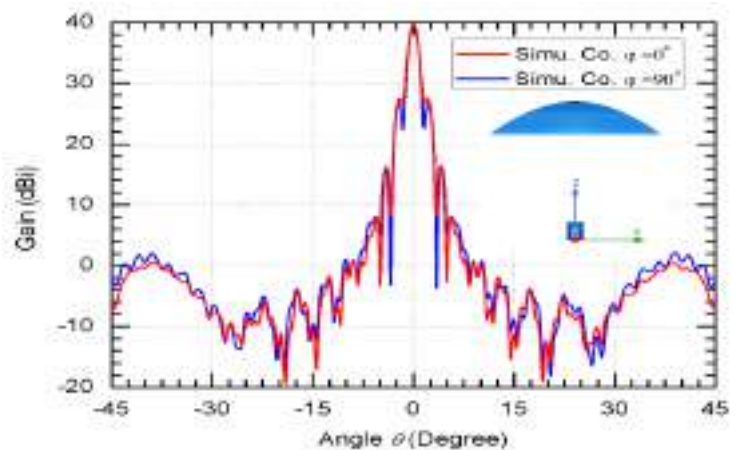




Plano-Convex Lens Antenna at D-Band



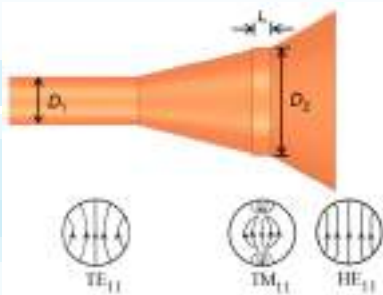
- Frequency = 110-170 GHz
- Gain ~ 41 dBi at 140 GHz
- 3dB beamwidths of ~ 1.4° x 1.4°.
- Lens diameter = 106 mm
- Overall Antenna Dia. = 116 mm
- Height = 130 mm





Feeds for the Plano-Convex Lens

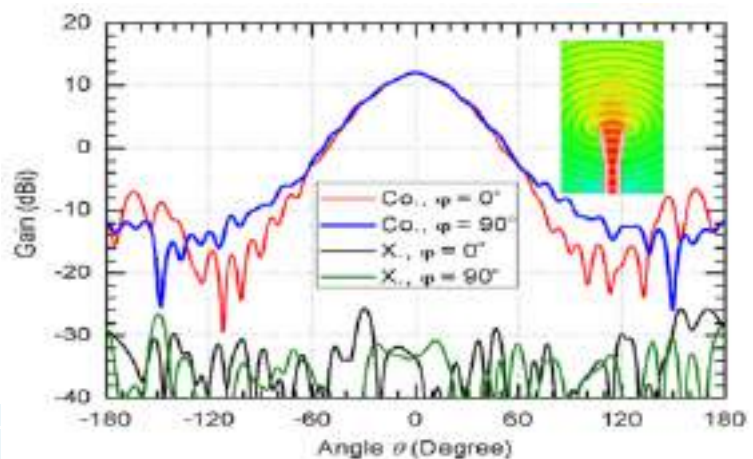
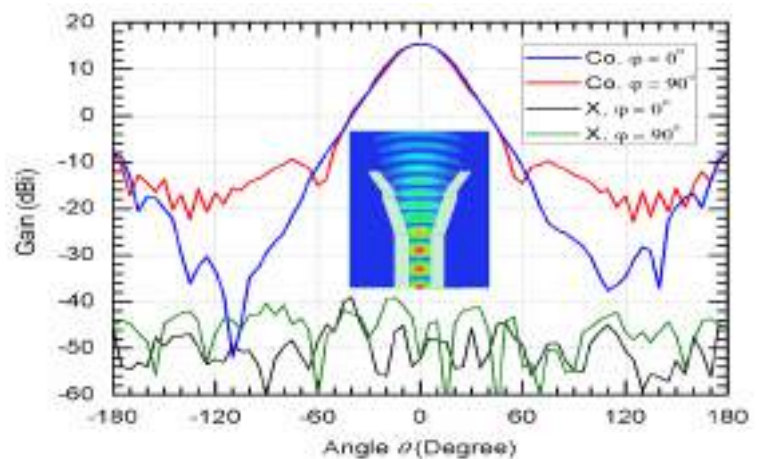
Dual Mode Conical Horn



Pyramidal Horn



- Frequency = 110–170 GHz
- Gain ~ 15.7 dBi
- Beamwidths ~ 30° x 30°
- Diameter = 25 mm
- Height = 20 mm





Prime Focus Reflector Antenna at D-band



Frequency = 110 -170 GHz.

Gain ~ 35.3 dBi

Beamwidths ~ 2.1° x 2.1°.

Dish Diameter ~ 60 mm.

Height ~ 220 mm

