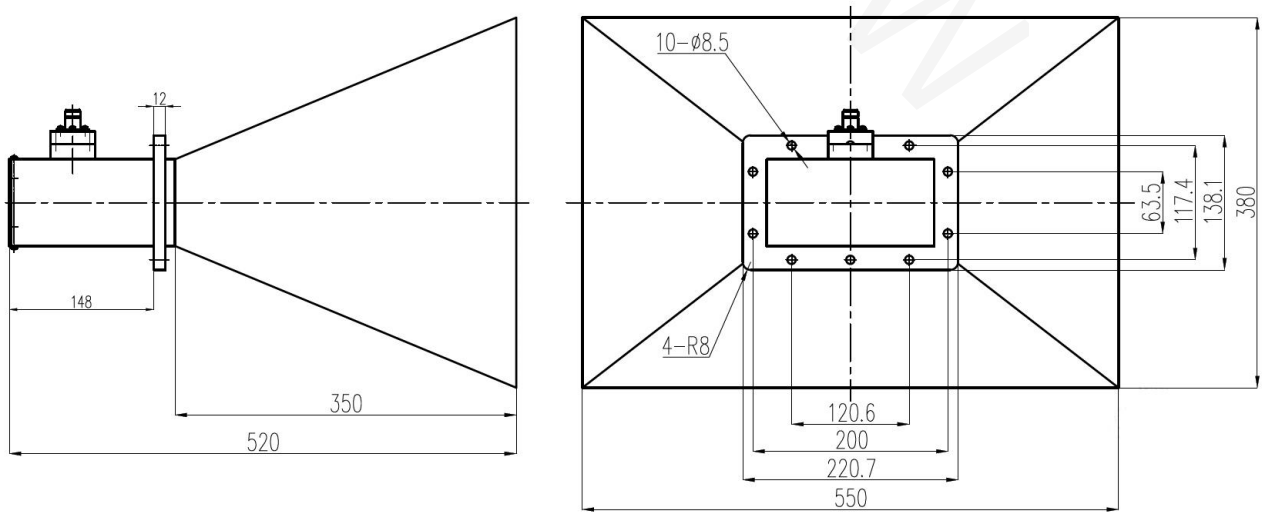
P/N: AMT-SGH650-15

Technical Specification

Frequency Range(GHz)	1.13-1.73
Waveguide Size EIA WR	WR650
Gain(dBi)	15 Typ.
Polarization	Linear
Impedance(Ohms)	50
Connector	N-female/SMA-female
VSWR	1.5 Max.
Material	Al
Size(mm)	550 x 380 x 520 approx.
Weight(Kg)	8.0 approx.

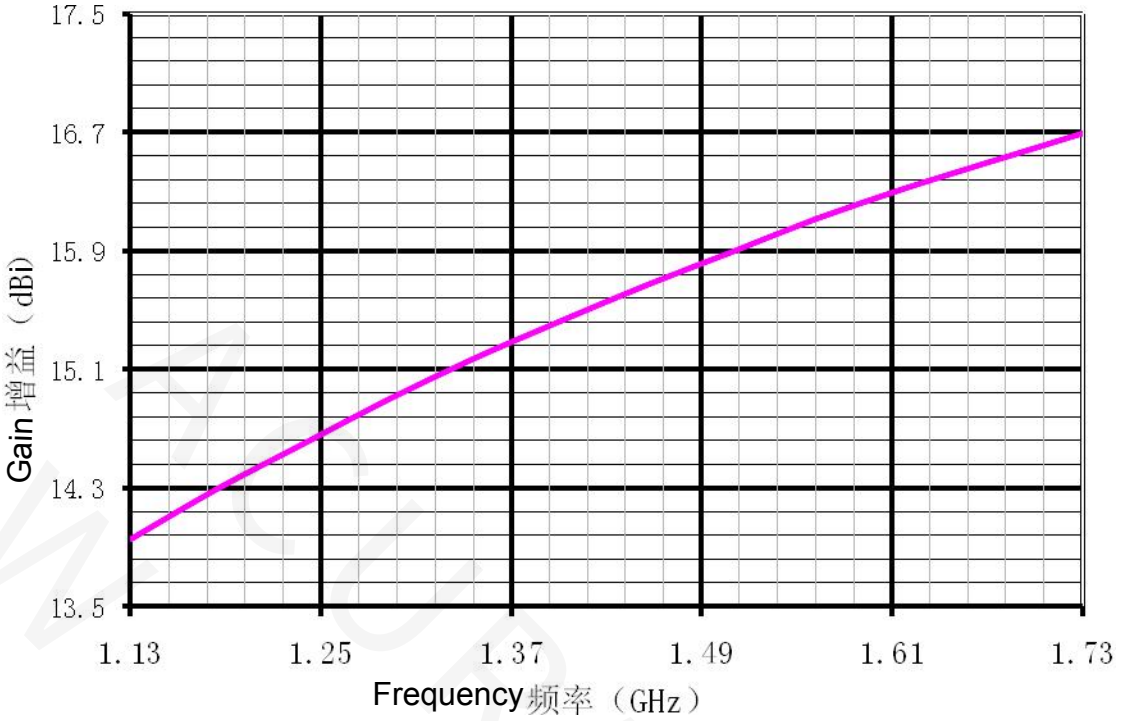
Outline (mm)

(The SMA-Female connector is also available)



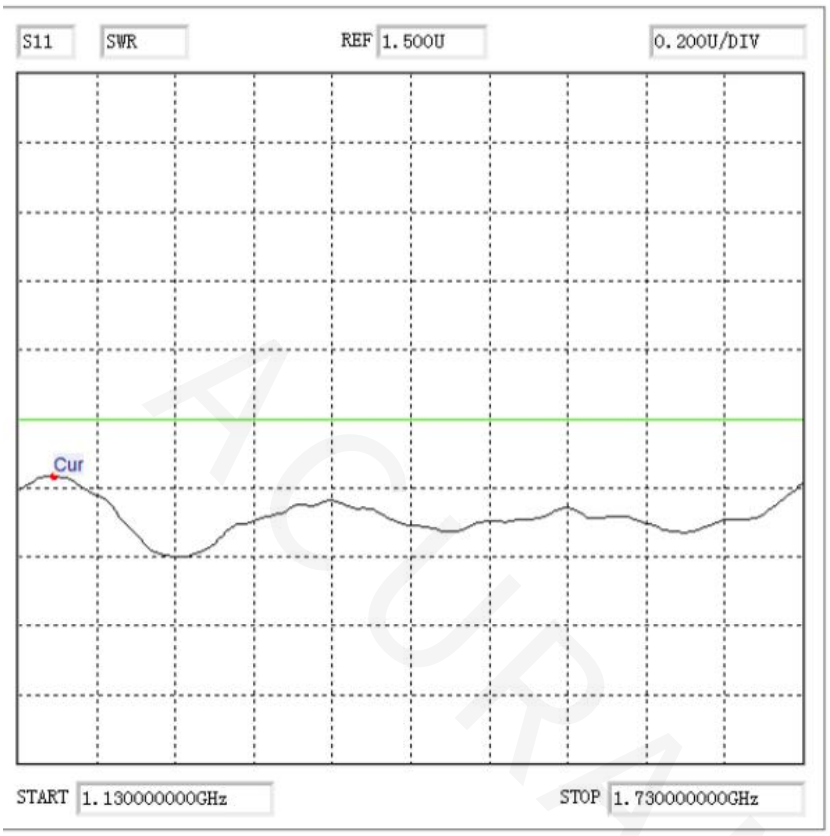
Test Result

Gain



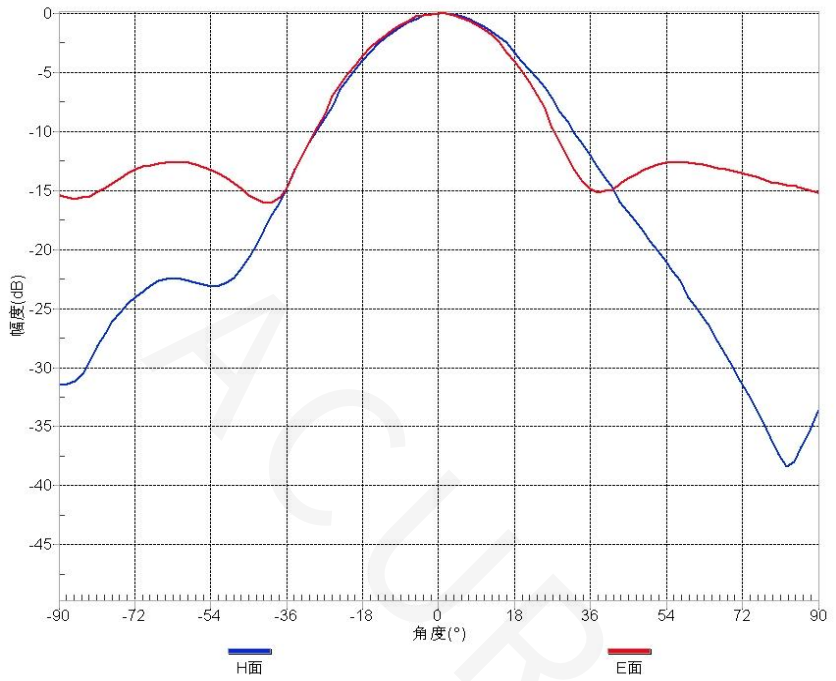
Frequency (GHz)	Gain (dBi)	Frequency (GHz)	Gain (dBi)
1.13	13.95	1.45	15.67
1.18	14.29	1.51	15.89
1.24	14.60	1.56	16.11
1.29	14.89	1.62	16.31
1.35	15.17	1.67	16.49
1.40	15.42	1.73	16.69

VSWR

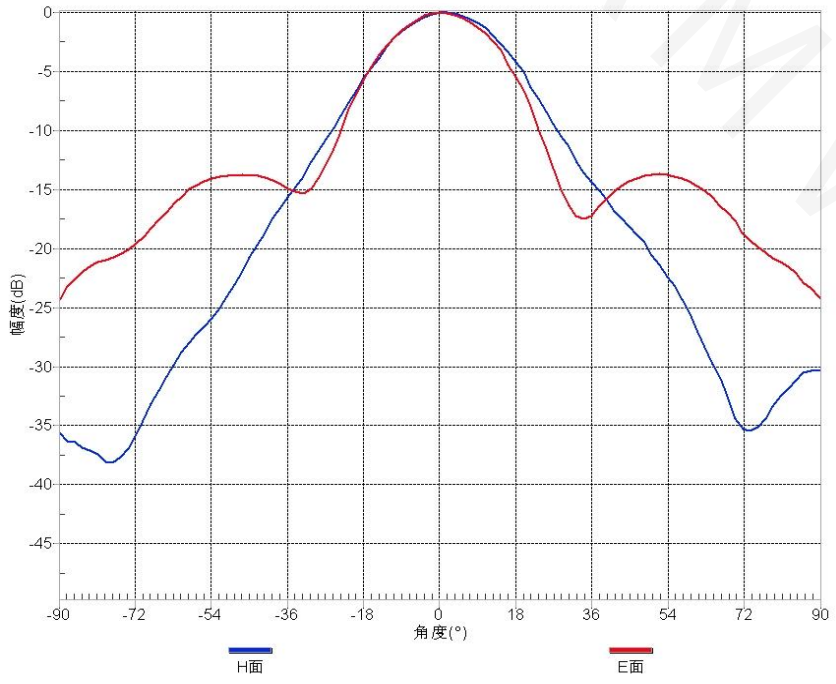


Name	Frequency	Value
Cur	1.157000000GHz	1.334U

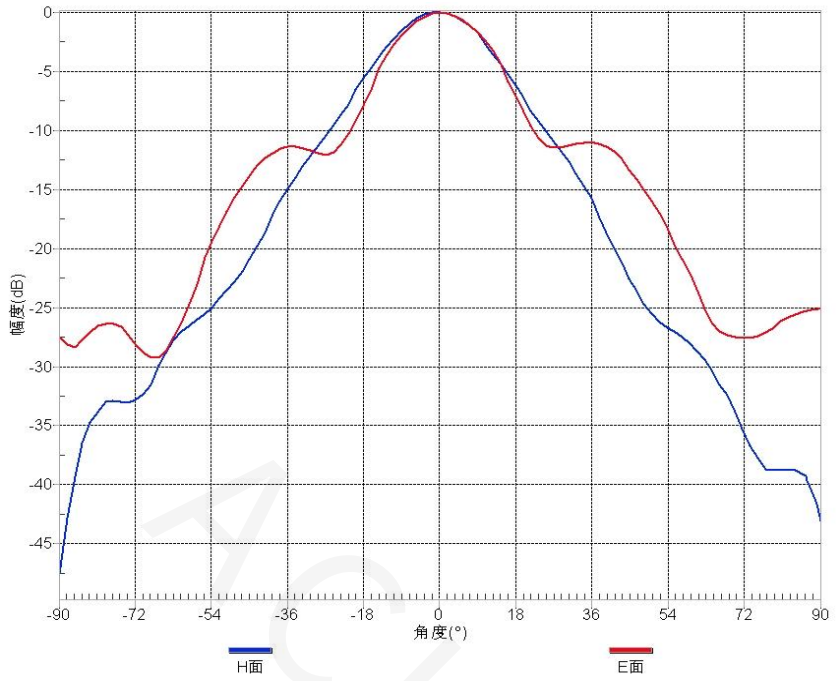
Pattern



Frequency: 1.13GHz
H-Plane Beamwidth :
-3dB: 32.78 °
E-Plane Beamwidth :
-3dB: 31.97 °

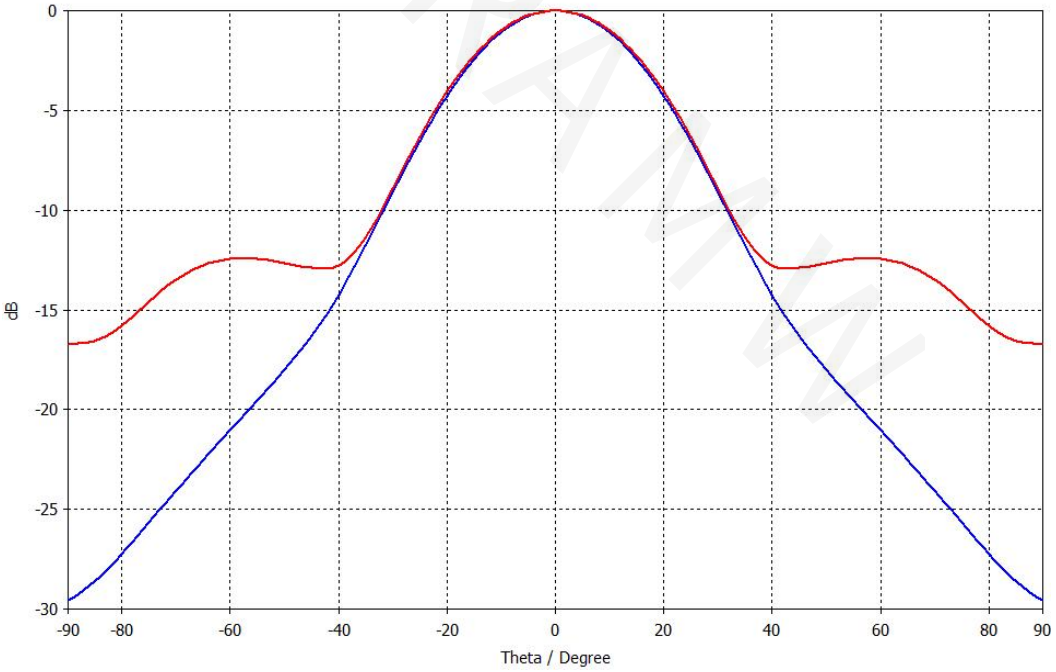


Frequency: 1.43GHz
H-Plane Beamwidth :
-3dB: 28.15 °
E-Plane Beamwidth :
-3dB: 27.01 °



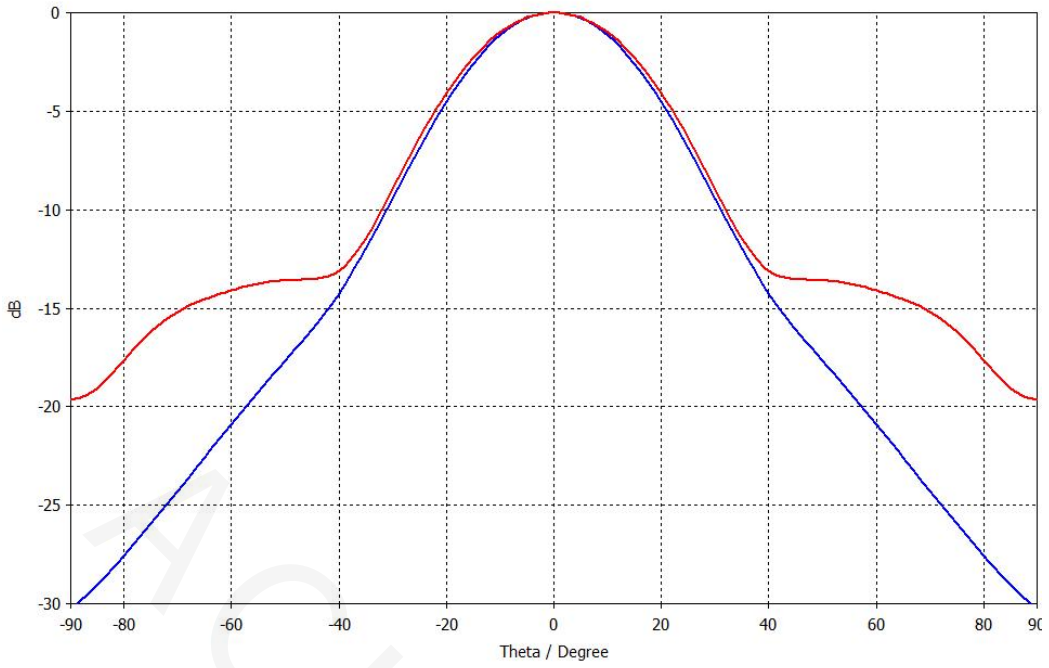
Frequency: 1.73GHz
H-Plane Beamwidth :
-3dB: 24.18 °
E-Plane Beamwidth :
-3dB: 23.39 °

Typical Patterns at Other Frequencies



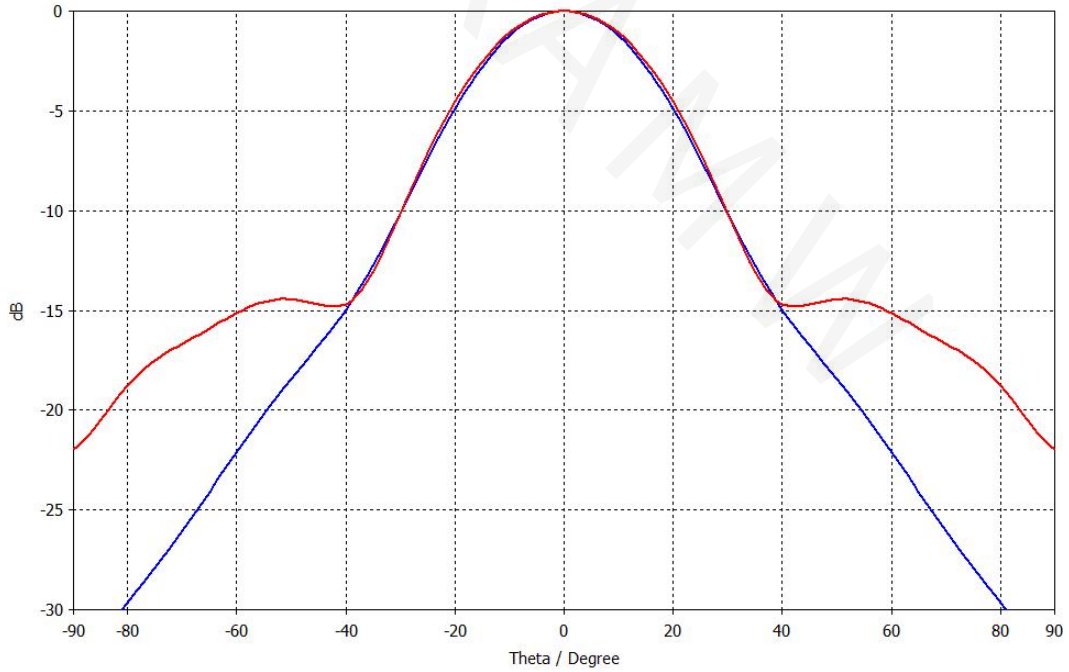
F=1.19GHz

$2\theta_{-0.5}$=33.4° H-Plane Beamwidth E-Plane Beamwidth $2\theta_{-0.5}$=34.6°



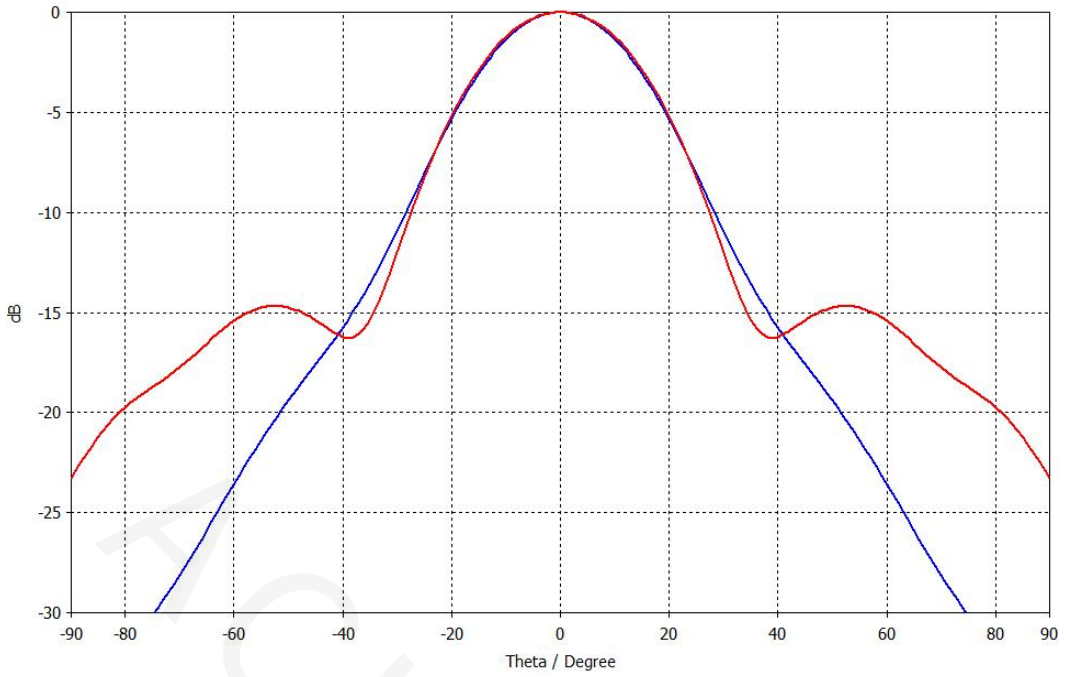
F=1.25GHz

$2\theta_{-0.5}$=32.4° H-Plane Beamwidth E-Plane Beamwidth $2\theta_{-0.5}$=34.4°



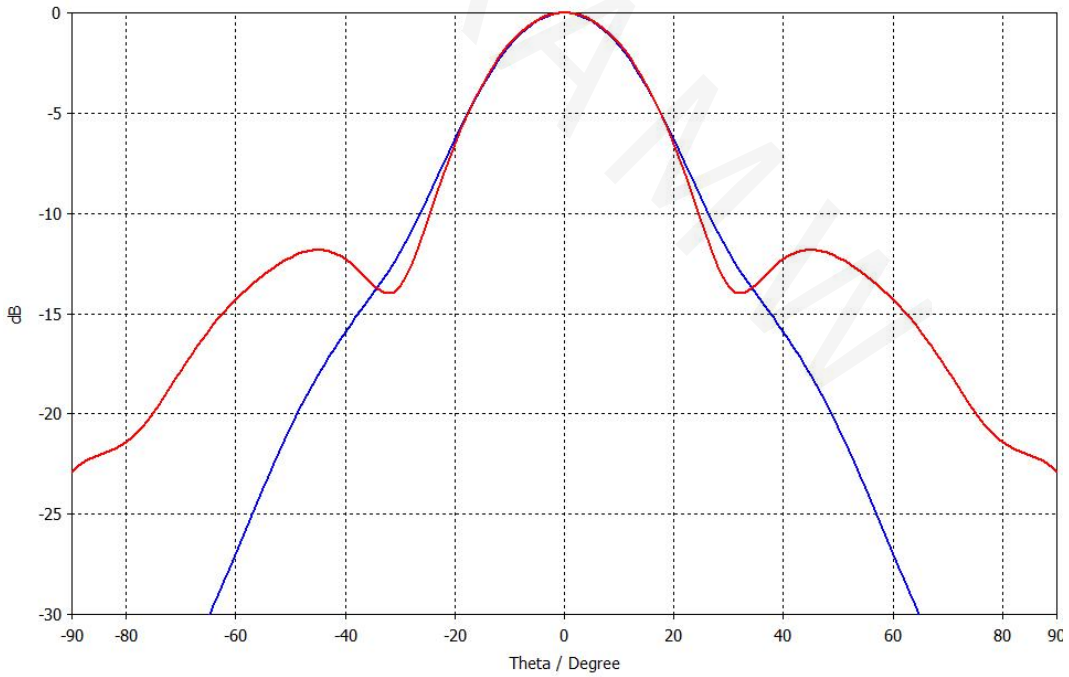
F=1.31GHz

$2\theta_{-0.5}$=31.1° H-Plane Beamwidth E-Plane Beamwidth $2\theta_{-0.5}$=32.7°



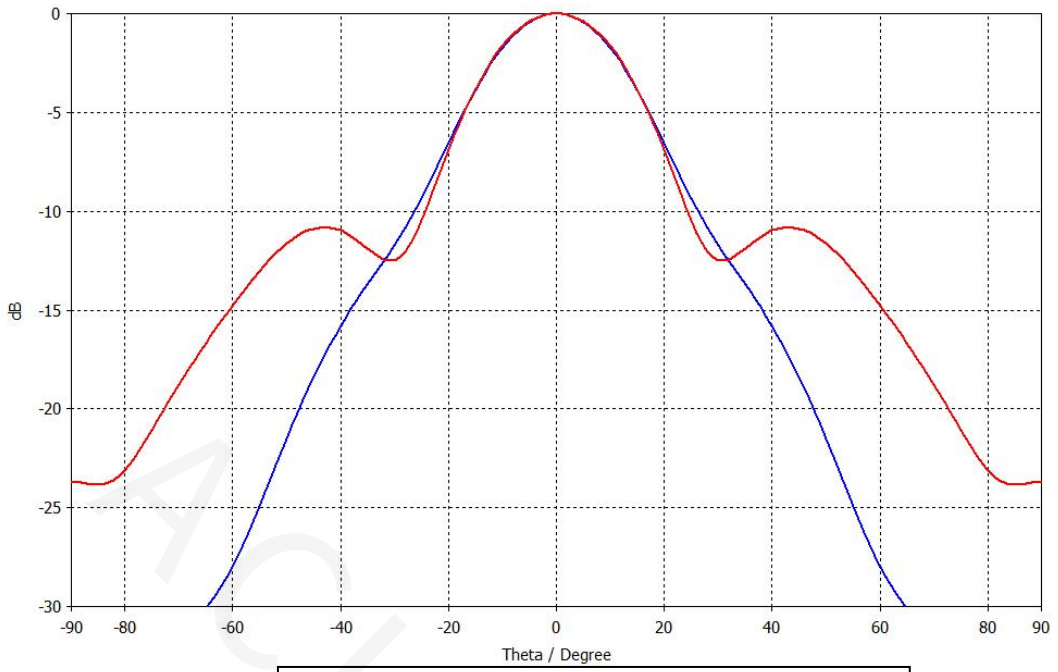
F=1.37GHz

$2\theta_{-0.5}$=29.8° H-Plane Beamwidth E-Plane Beamwidth $2\theta_{-0.5}$=30.8°



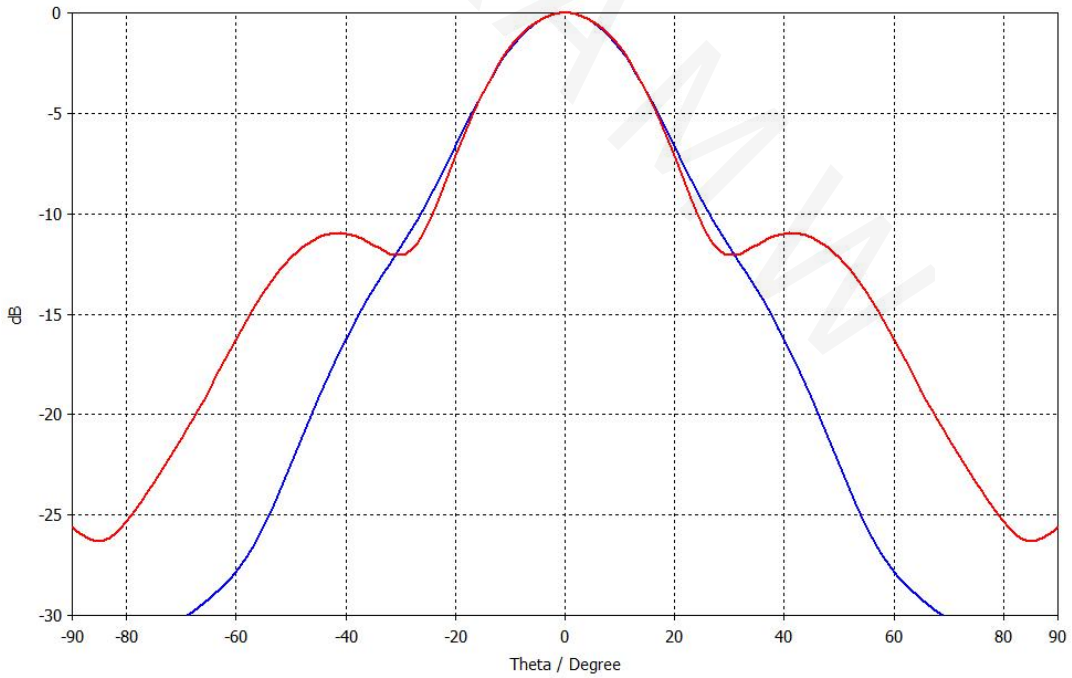
F=1.49GHz

$2\theta_{-0.5}$=27.2° H-Plane Beamwidth E-Plane Beamwidth $2\theta_{-0.5}$=27.6°



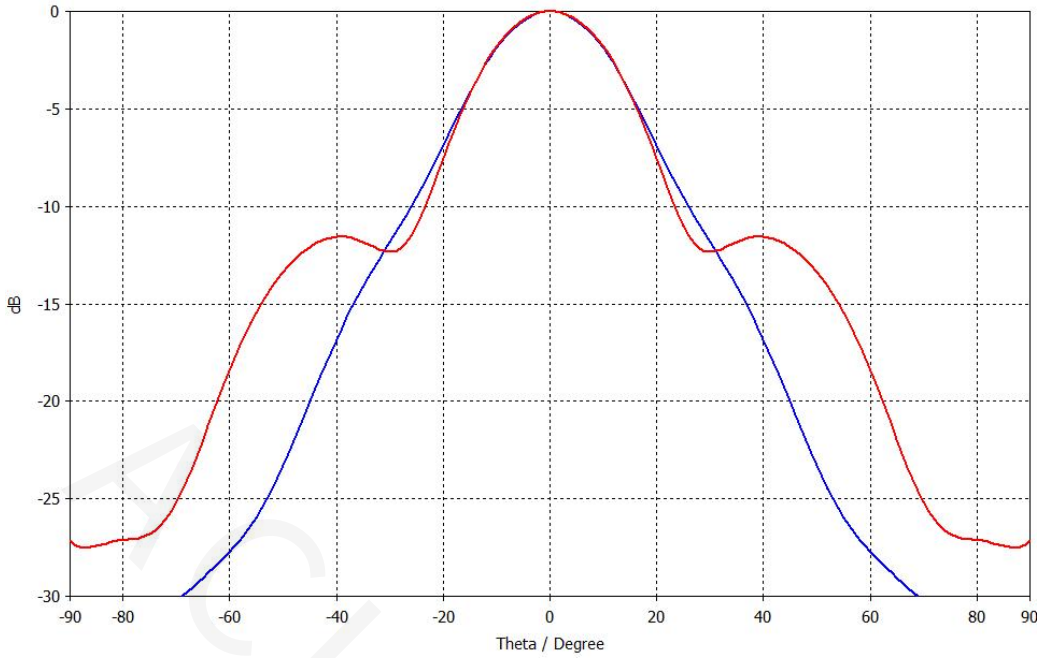
F=1.55GHz

$2\theta_{-0.5}$=26.4° H-Plane Beamwidth E-Plane Beamwidth $2\theta_{-0.5}$=26.7°



F=1.61GHz

$2\theta_{-0.5}$=26.0° H-Plane Beamwidth E-Plane Beamwidth $2\theta_{-0.5}$=26.2°



F=1.67GHz

$2\theta_{-0.5}$=25.3° H-Plane Beamwidth E-Plane Beamwidth $2\theta_{-0.5}$=25.4°