



RF-LAMBDA

The power beyond expectations

RWDRHA1G18

1~18GHz Wideband Double Ridge Horn Antenna

1~18GHz Coaxial Wideband Double Ridge Horn Antenna



Summary:

- . High power operational up to 200W CW
- . compacted package in high gain cross band.
- . Wide bandwidth, flat frequency response
- . MIL-E-5400 standard
- . Customized unit is available upon request.

$$G = G_0 - \Delta G$$

G = 2~18GHz Gain of Polarization Horn

G_0 = the standard gain of the polarization horn

$$\Delta G = P_1 - P_2$$

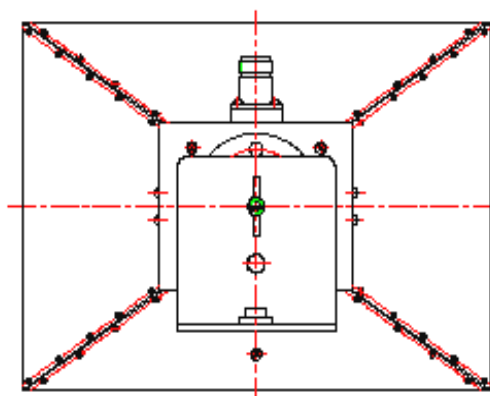
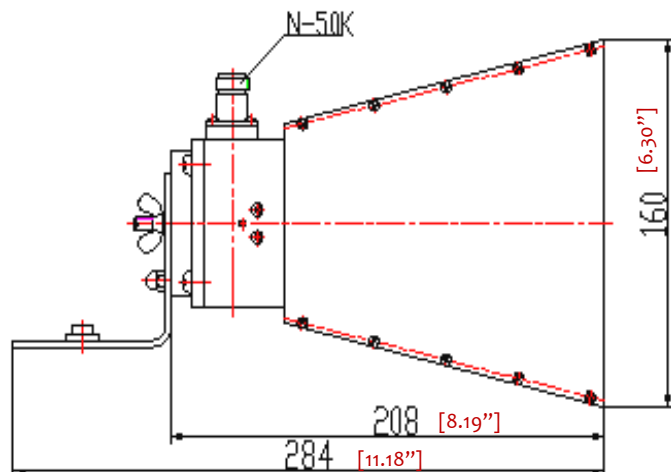
P_1 = the receiving power level of standard horn

P_2 = the receiving power level of 2~18GHz Polarization Horn

Electrical and Environmental Specifications:

Frequency Range:	1.0-18.0GHz
Antenna Gain:	10dB (typ.)
VSWR:	2.5 : 1 max.
Beam width (Avg)	E-Plane: 54° H-Plane: 49°
Connector:	N-Female
Impedance:	50 ohm
Weight :	1.8 Kg
Operational Temp. :	-55°C~+85° C
Storage Temp. :	-55°C~+100° C

Outline Drawing:

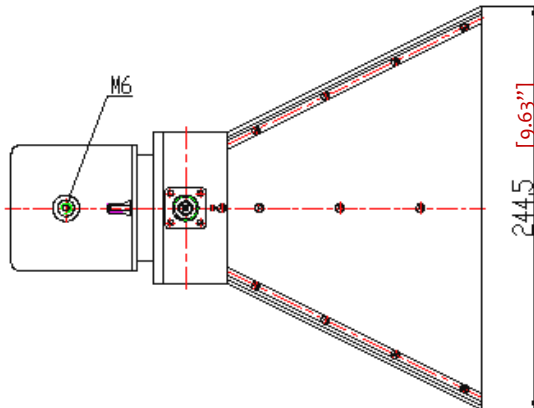




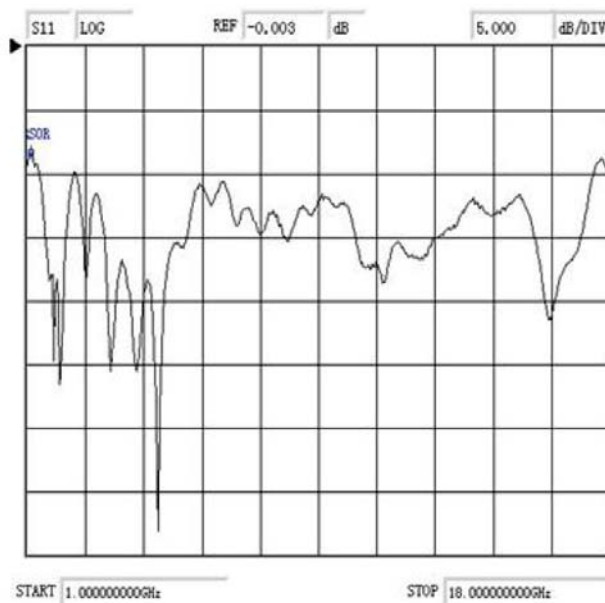
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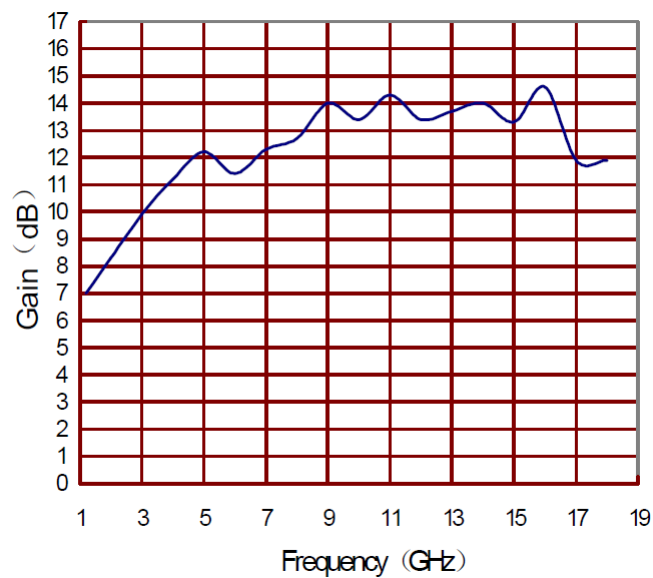
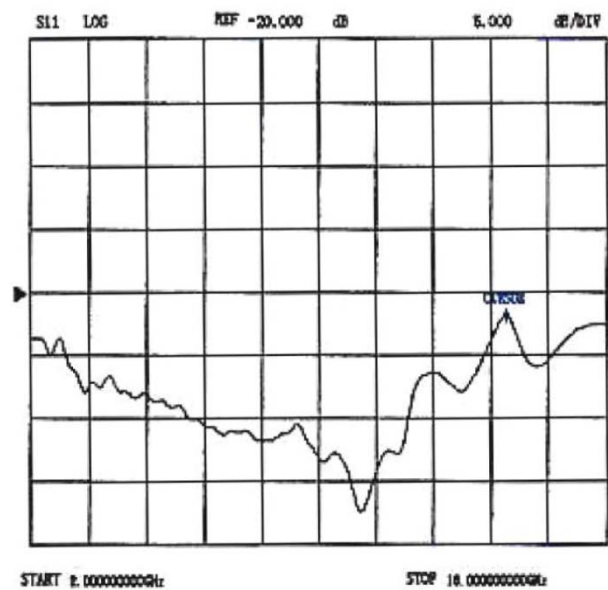
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VSWR



Cross Polarization Isolation



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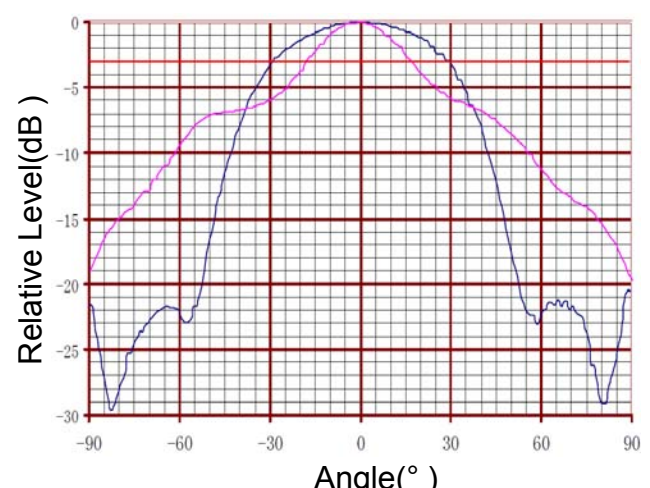
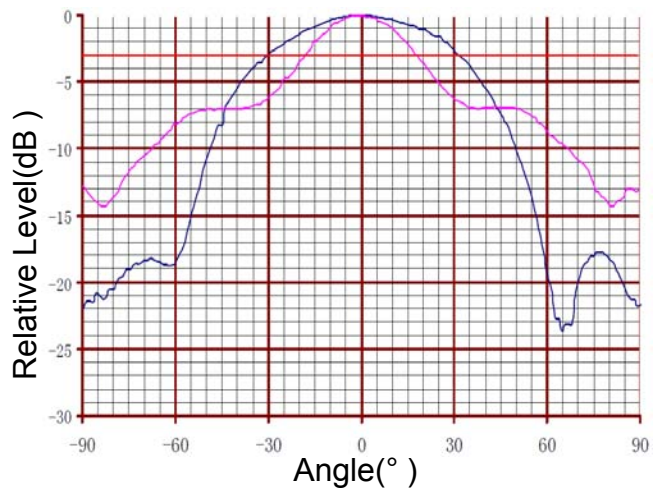
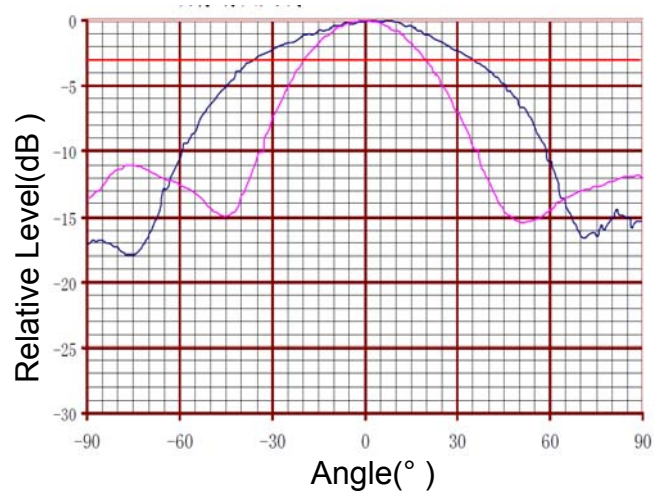
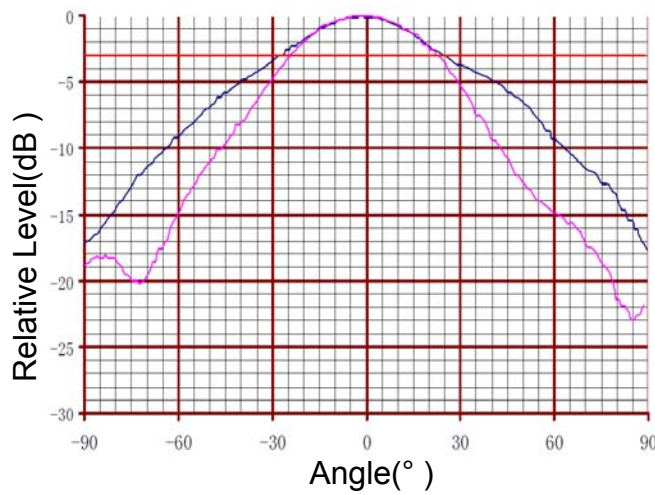
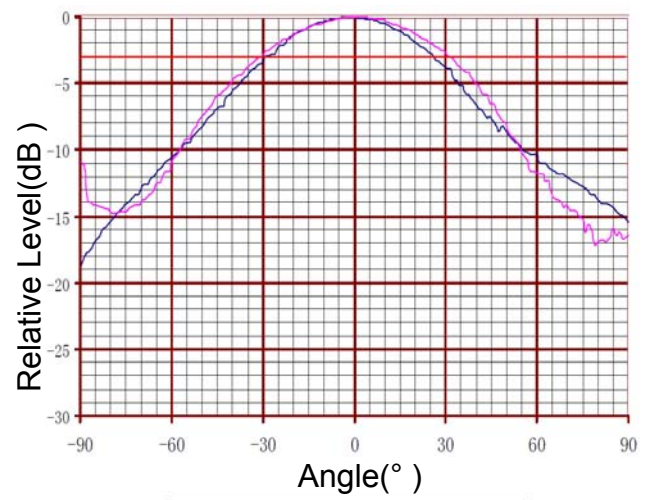
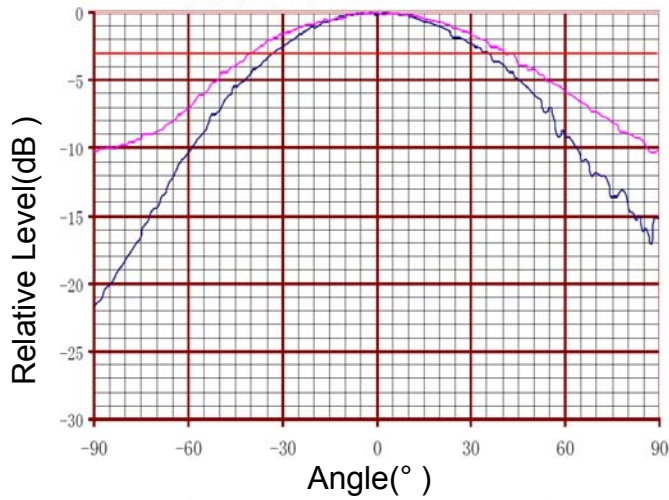


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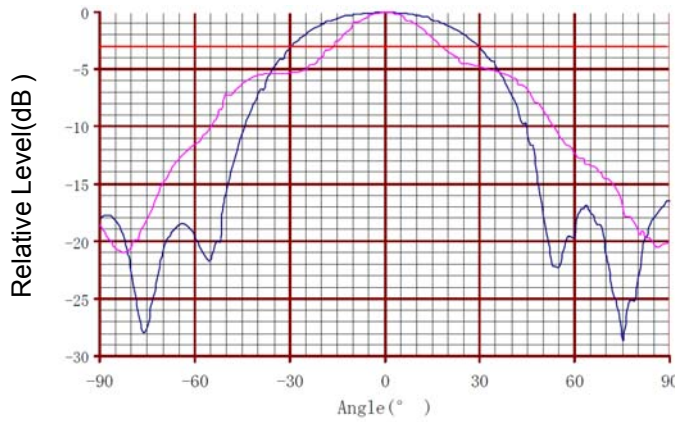


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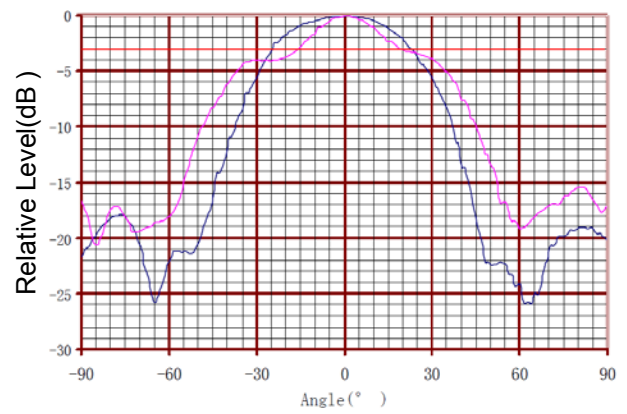
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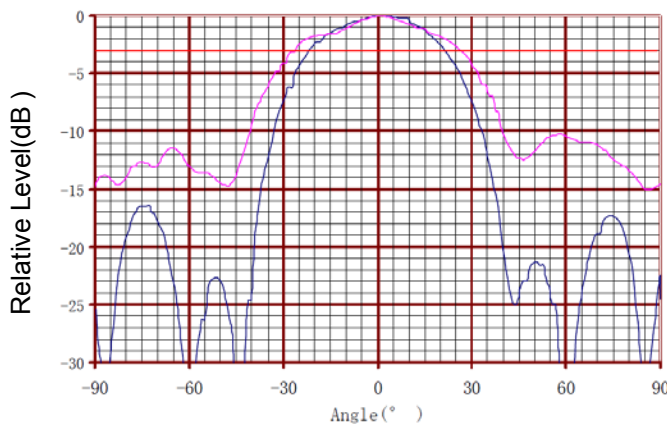
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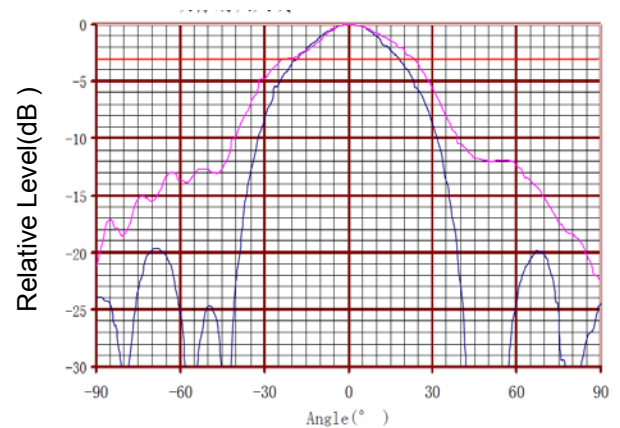
F=4.0GHz G:10.02dB
2θ-0.5=60°—H-Plane 2θ-0.5=34°—E-Plane



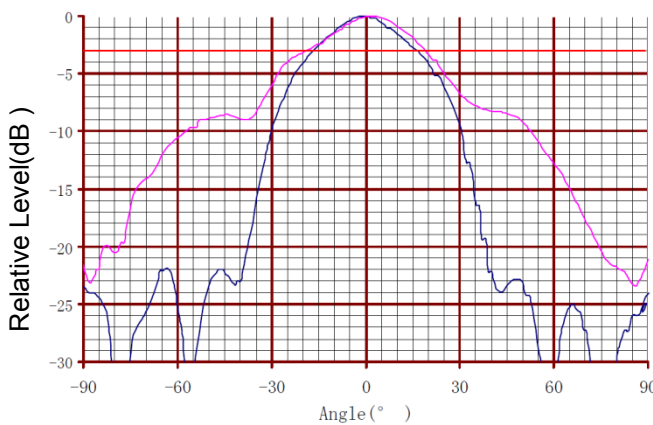
F=4.5GHz G:10.78dB
2θ-0.5=48°—H-Plane 2θ-0.5=35°—E-Plane



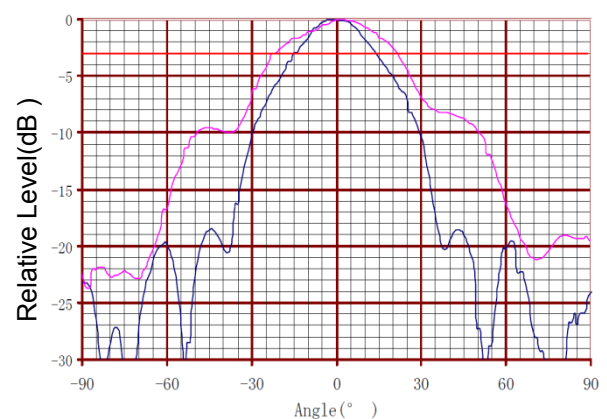
F=5.0GHz G:10.71dB
2θ-0.5=43°—H-Plane 2θ-0.5=53°—E-Plane



F=5.5GHz G:10.66dB
2θ-0.5=38°—H-Plane 2θ-0.5=48°—E-Plane



F=6.0GHz G:12.19dB
2θ-0.5=33°—H-Plane 2θ-0.5=39°—E-Plane



F=6.5GHz G:10.44dB
2θ-0.5=28°—H-Plane 2θ-0.5=43°—E-Plane

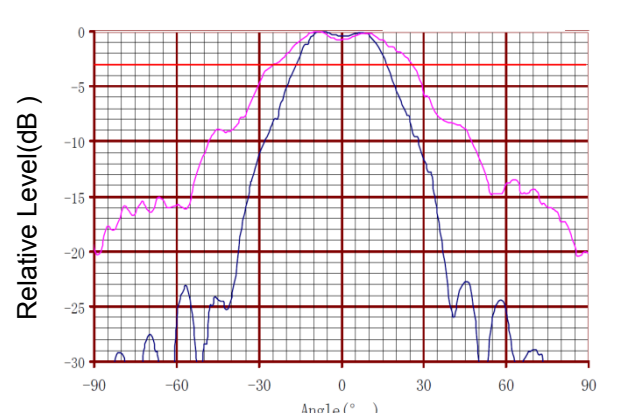
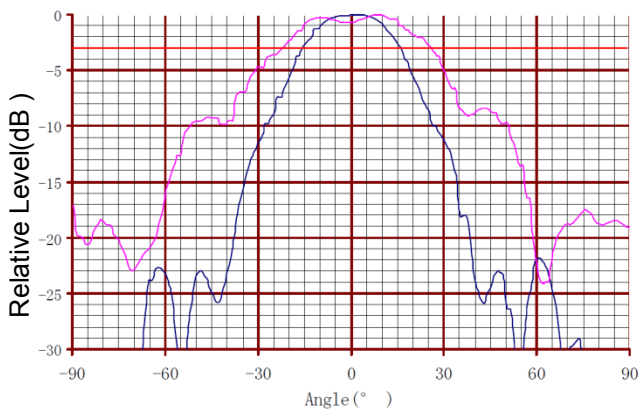
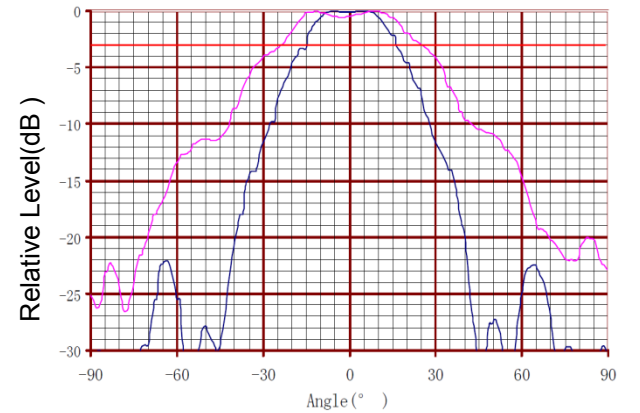
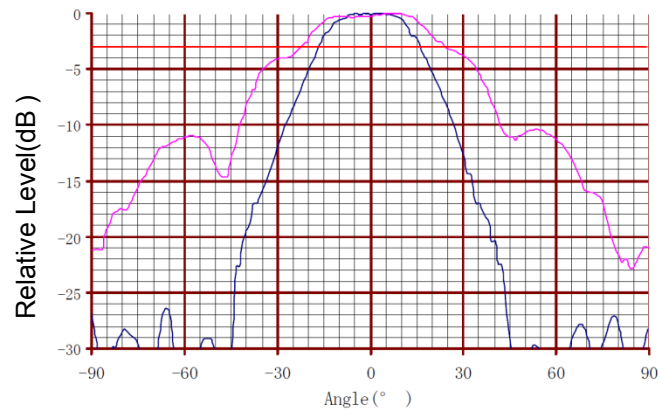
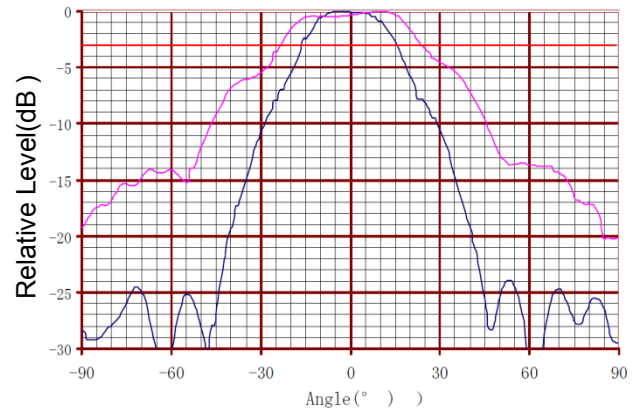
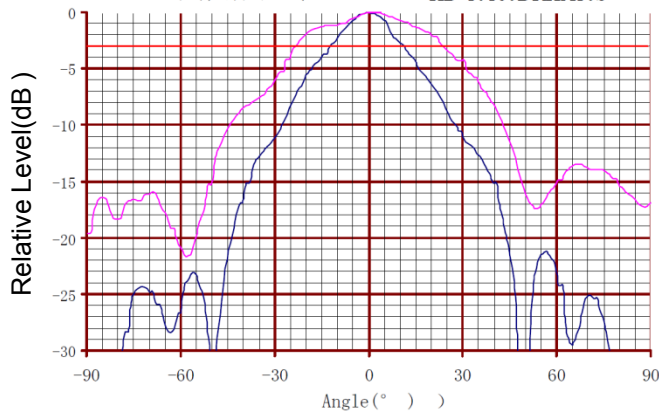


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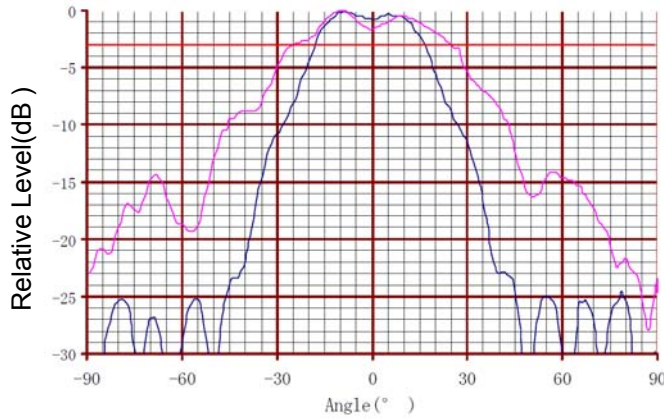


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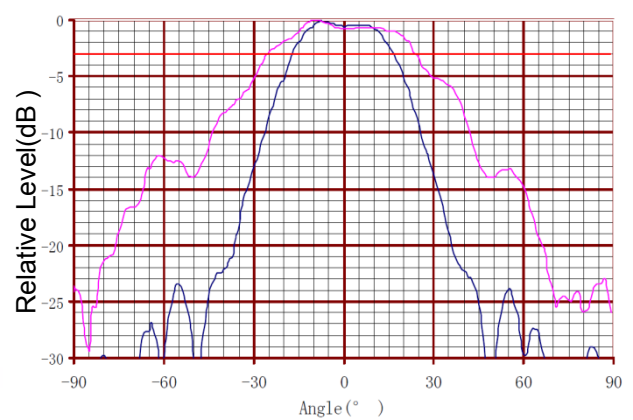
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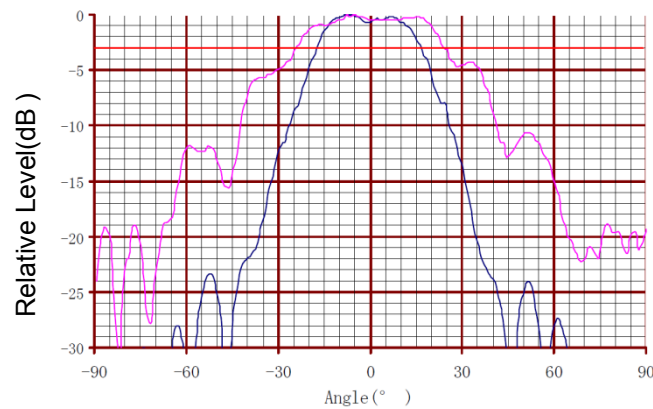
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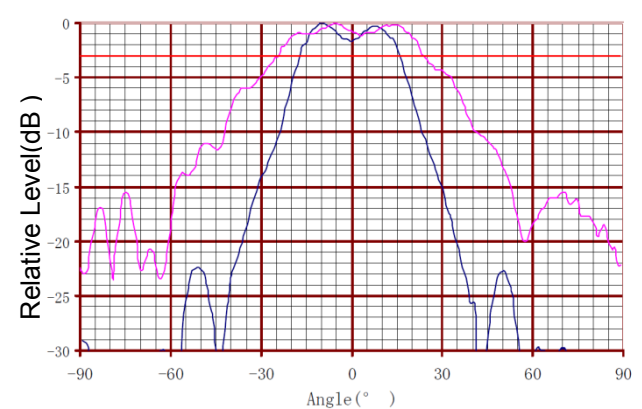
F=10.0GHz G:11.90dB
2θ-0.5=35° — H-Plane — E-Plane 2θ-0.5=50°



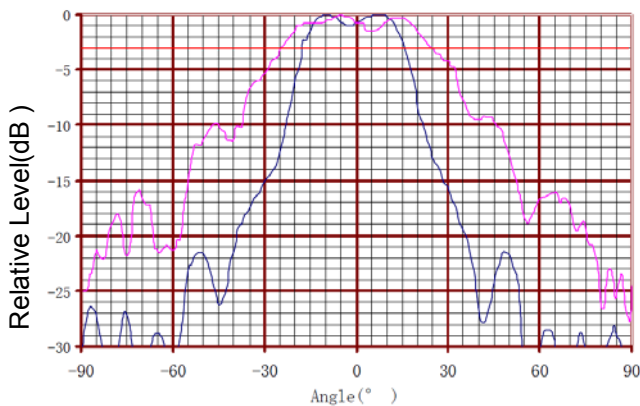
F=10.5GHz G:12.40dB
2θ-0.5=35° — H-Plane — E-Plane 2θ-0.5=50°



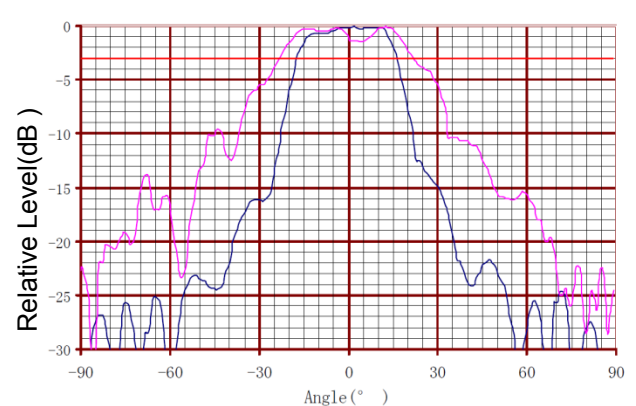
F=11.0GHz G:12.43dB
2θ-0.5=34° — H-Plane — E-Plane 2θ-0.5=50°



F=11.5GHz G:13.18dB
2θ-0.5=34° — H-Plane — E-Plane 2θ-0.5=49°



F=12.0GHz G:13.27dB
2θ-0.5=34° — H-Plane — E-Plane 2θ-0.5=50°



F=12.5GHz G:12.97dB
2θ-0.5=34° — H-Plane — E-Plane 2θ-0.5=45°

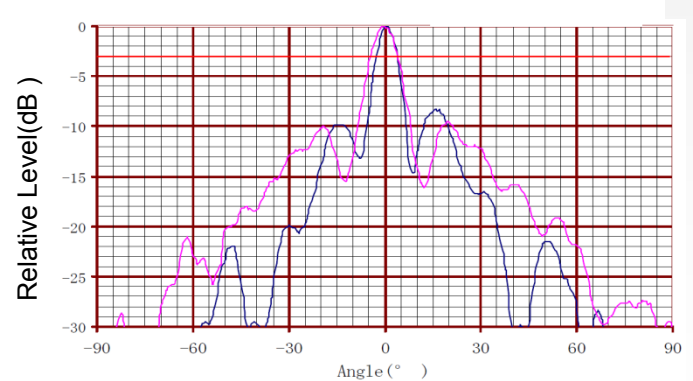
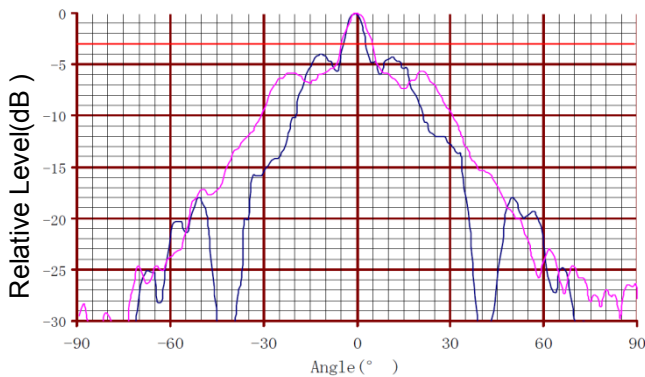
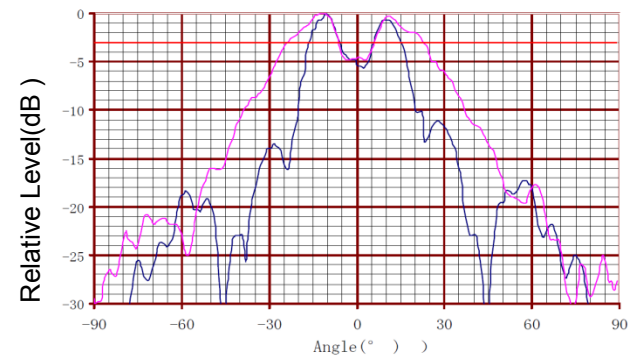
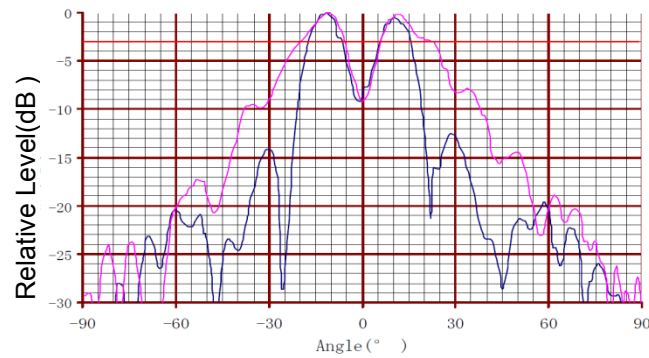
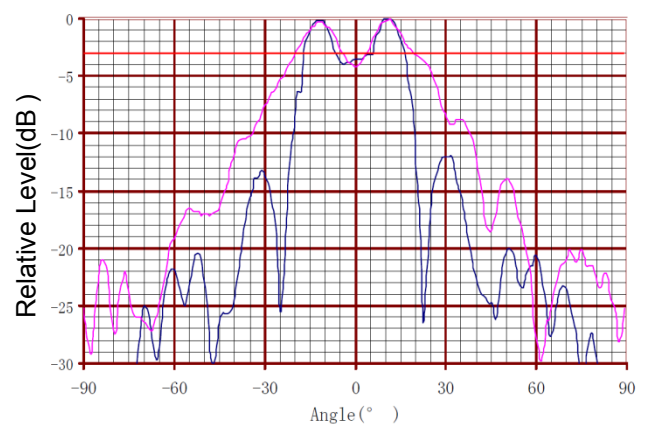
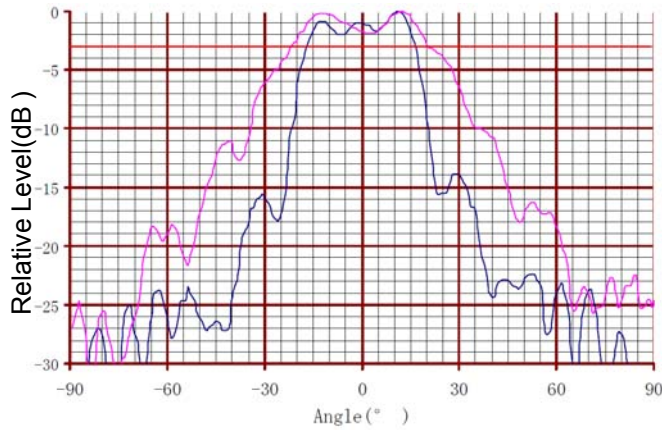


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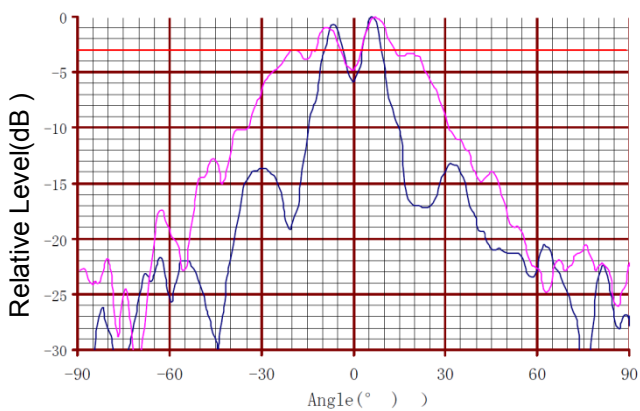
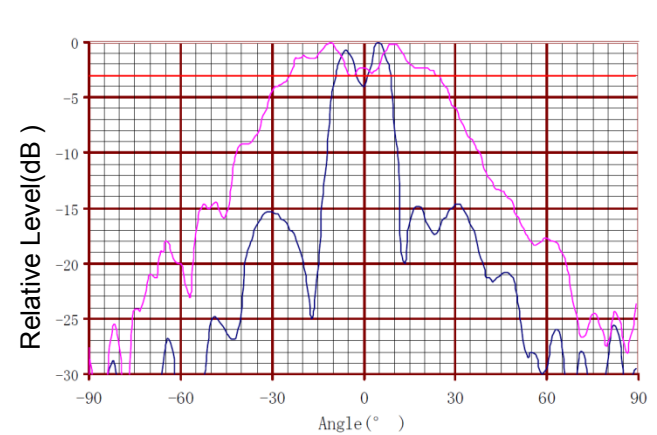
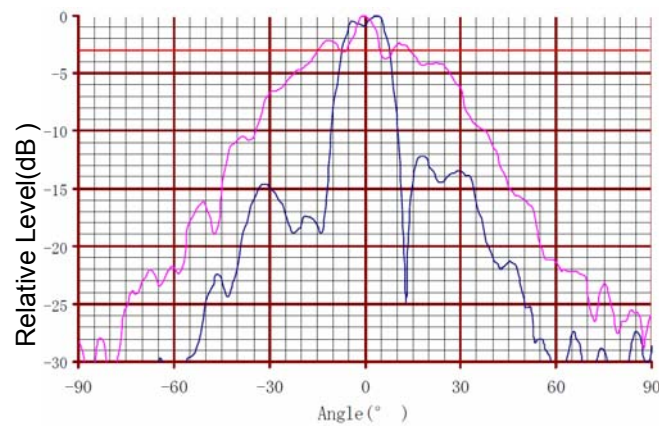
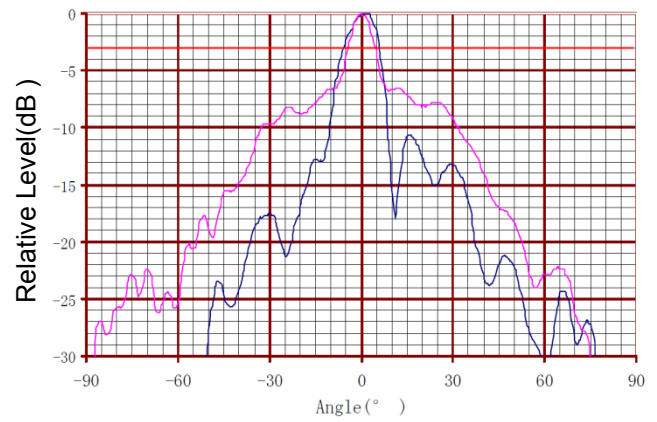
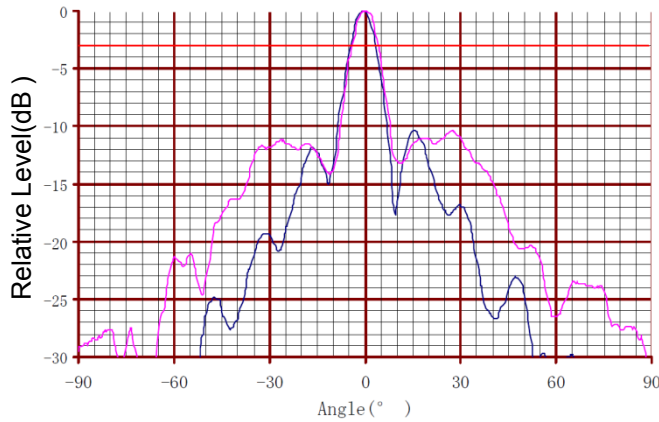


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Relative Level(dB)