

Broadband Horn Antenna

N Female/2-18GHz/15dBi Typ, Gain

Model: TL-20180HA21N

TL-20180HA21N is a broadband horn antenna that operates from 2 GHz to 18 GHz. The antenna offers 15 dBi nominal gain. The input of this antenna offers coax adapter structure with N female. The standard gain horn is offered for antenna range calibration purpose mainly, but it can be also used for general purpose system set ups.

Features:

- Operating Frequency 2 to 18 GHz
- Gain: 15dBi Typ
- Good Impedance Match

Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

电气特性 Electrical Characteristics:

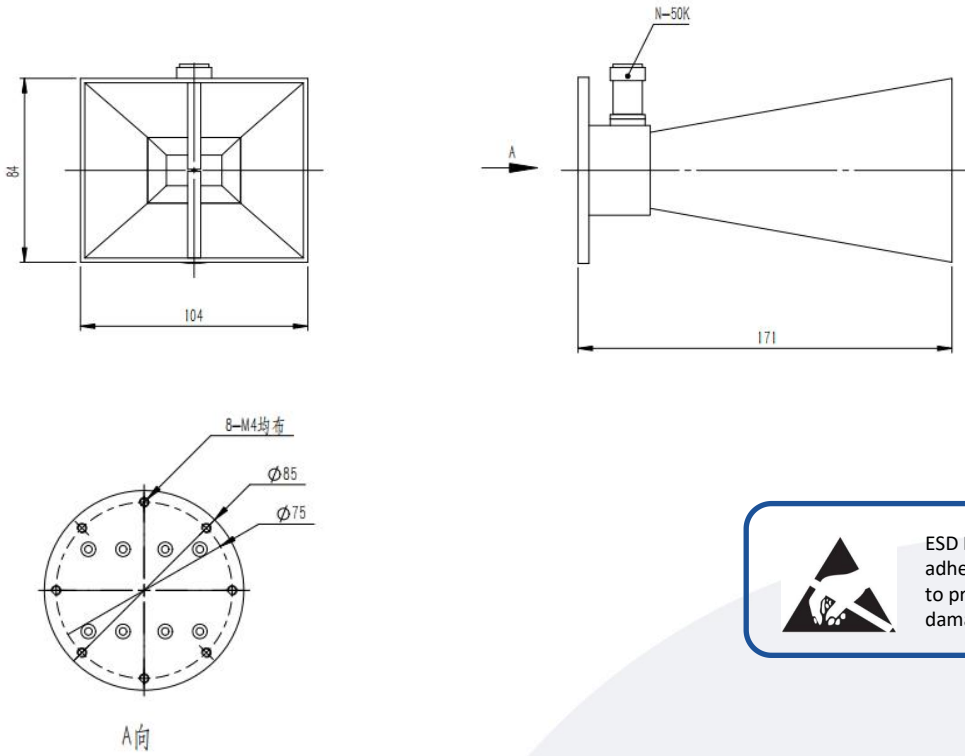
参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency Range	2		18	GHz
增益 Gain	7.5	15	21	dBi
驻波 Input VSWR			1.8	:1
波束宽度 Antenna Beamwidth	E plane: 14.3°-84.6°; H plane: 10.4°-69.7°			°

环境和机械特性 Envrionmental And Physical Characteristics:

参数 Parameter	指标 Value	单位 Units
材质 Material	Aluminum	
接口 Connectors	N Female	
尺寸 Size	104*84*171	mm

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



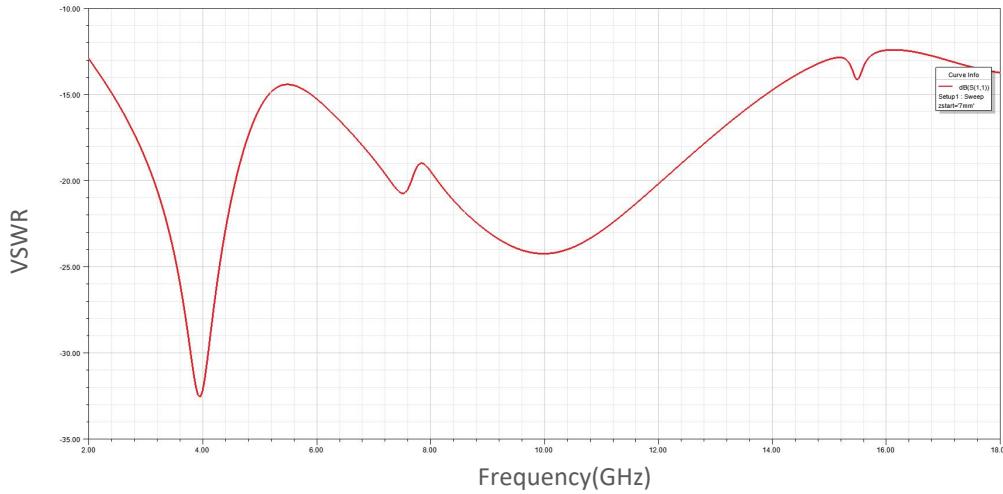
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

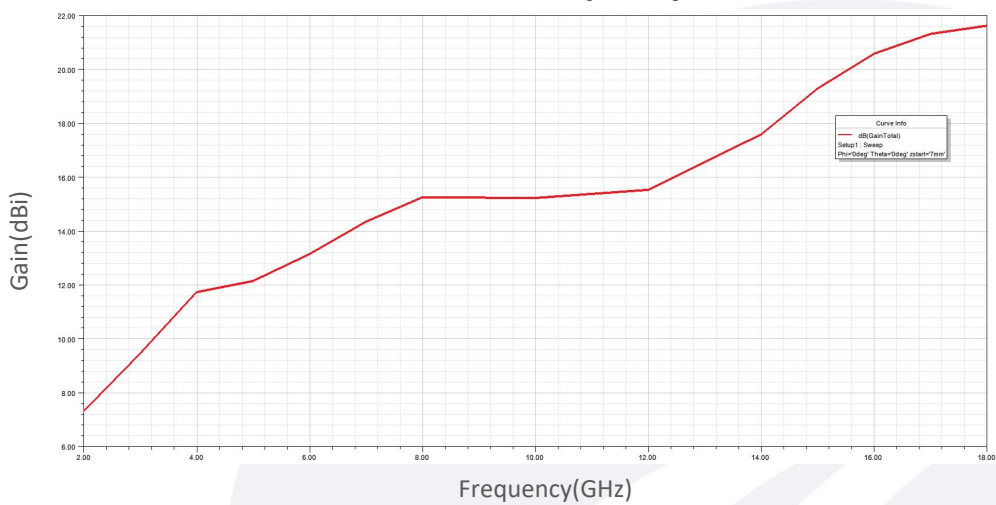
标准型号 Base Number	描述 Description	版本号 Revision
TL-20180HA21N	Broadband Horn Antenna, 2-18GHz, Gain: 15dBi Typ.	Rev.1.0

典型曲线 Typical Performance Data:

VSWR vs Frequency



Gain vs Frequency



2GHz:

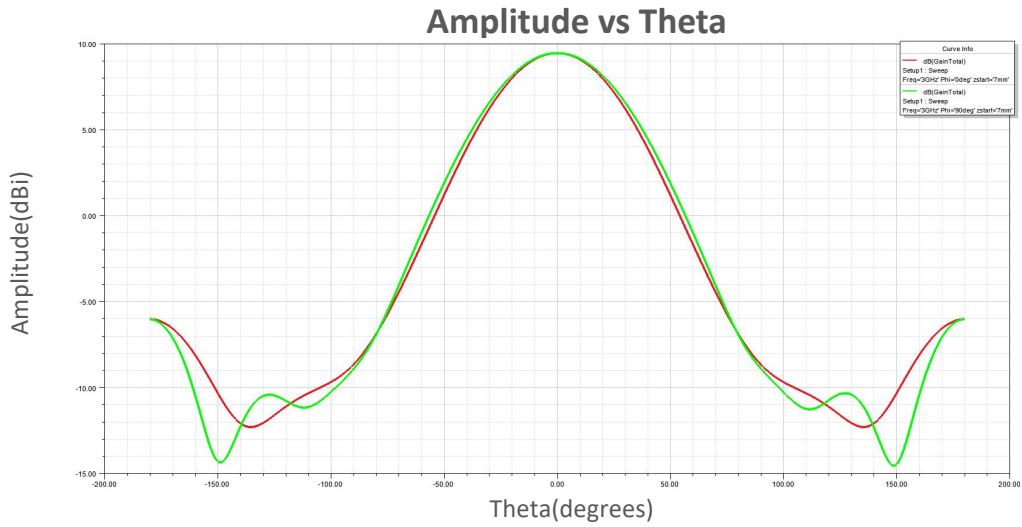
Amplitude vs Theta



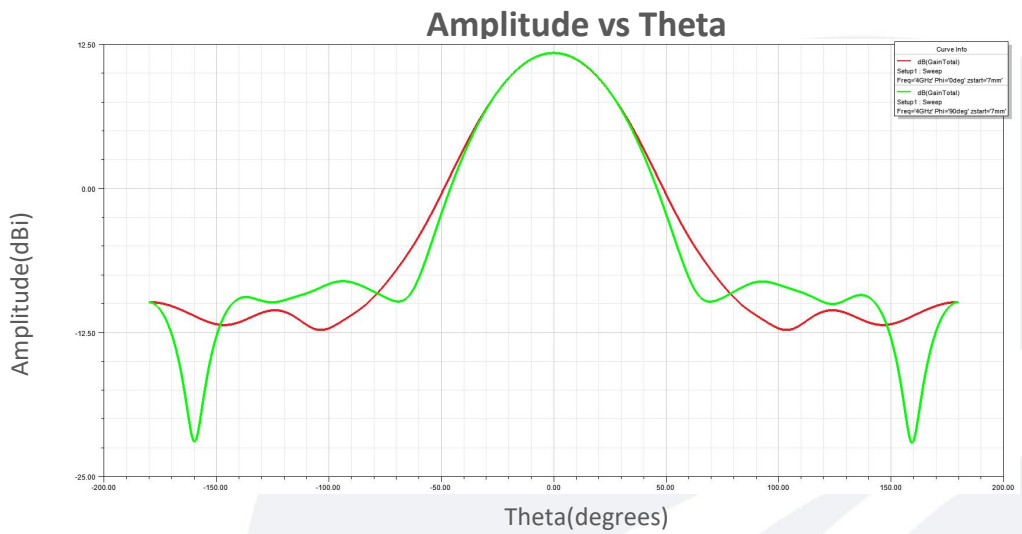
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

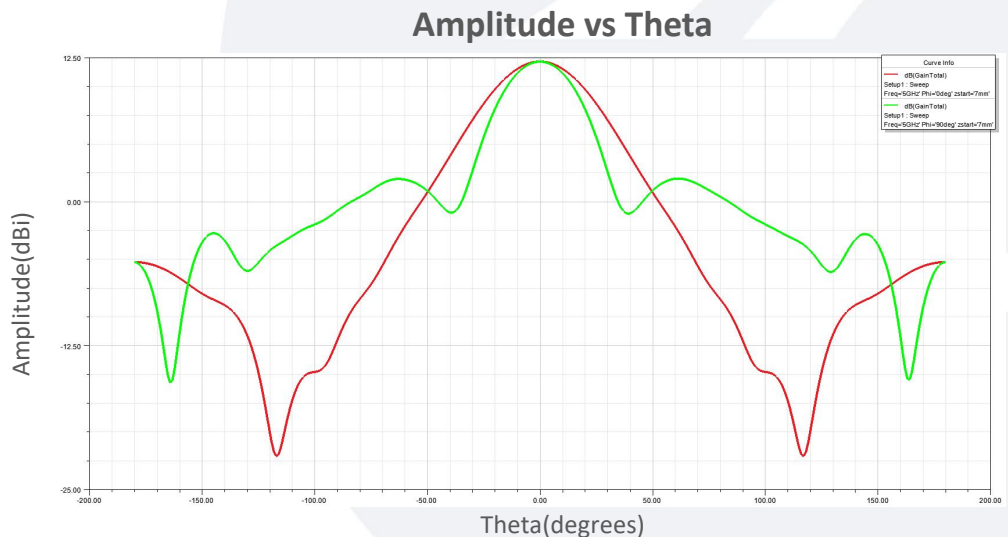
3GHz:



4GHz:



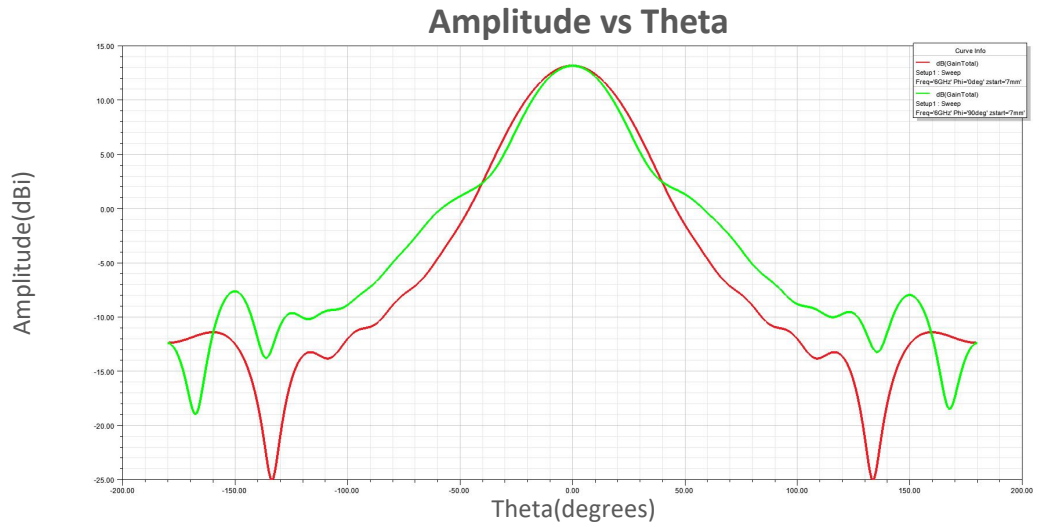
5GHz:



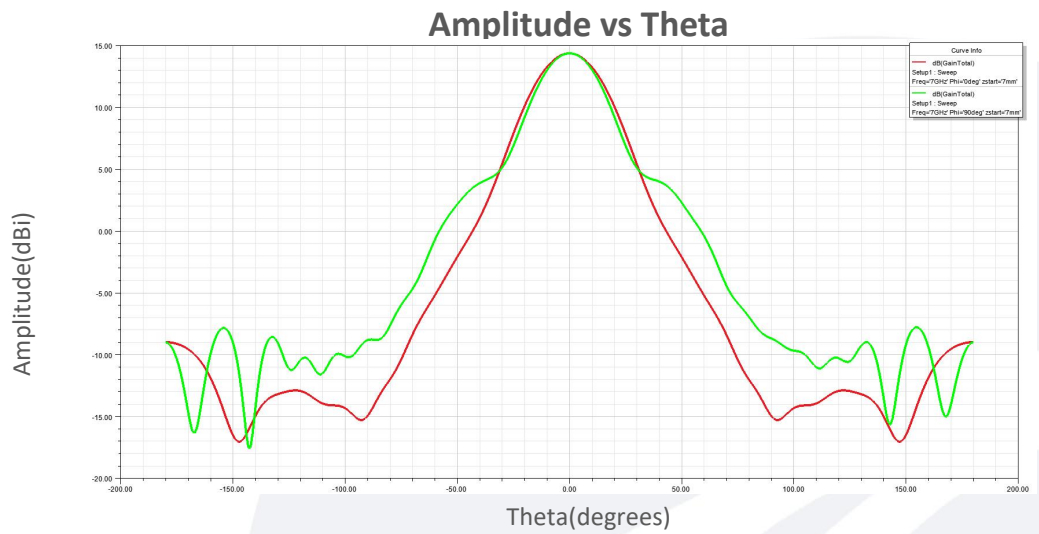
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

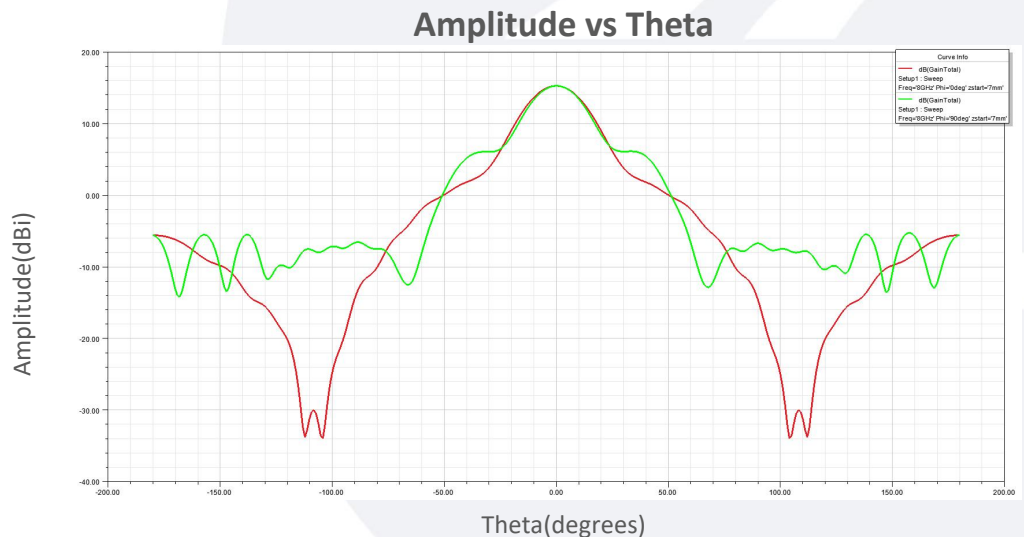
6GHz:



7GHz:



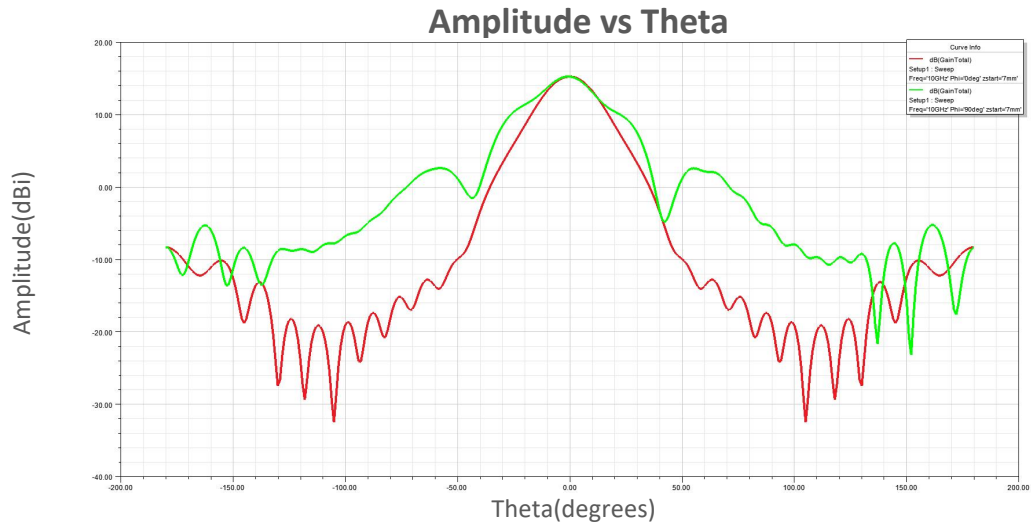
8GHz:



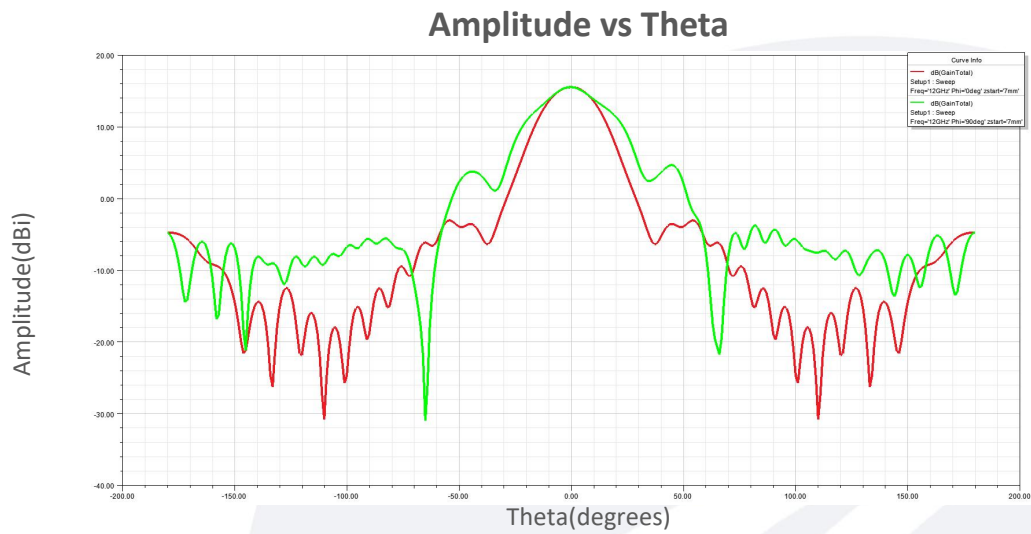
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

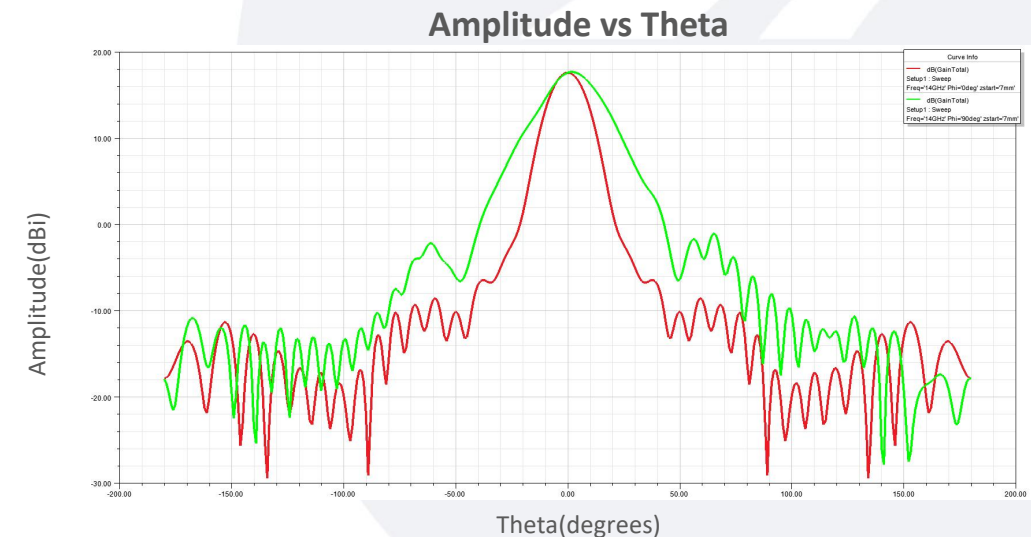
10GHz:



12GHz:



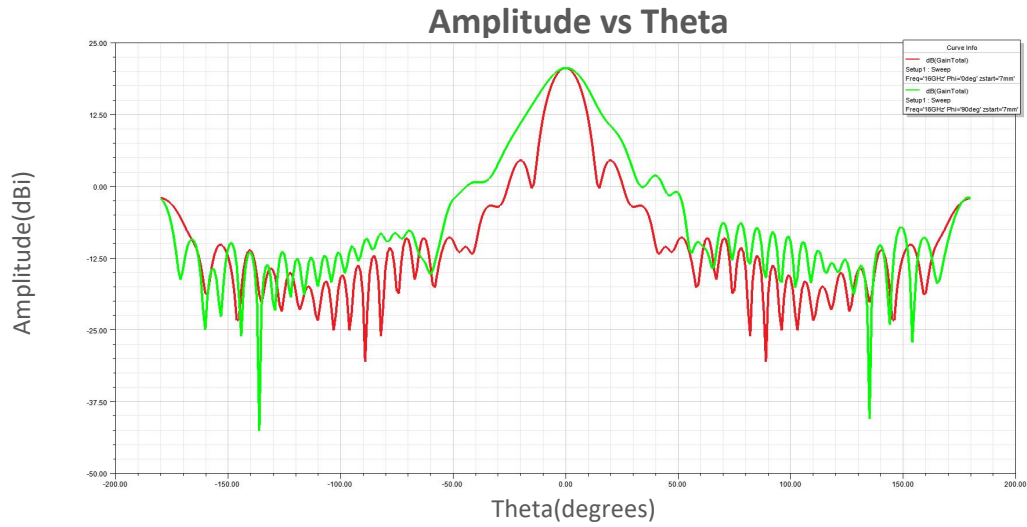
14GHz:



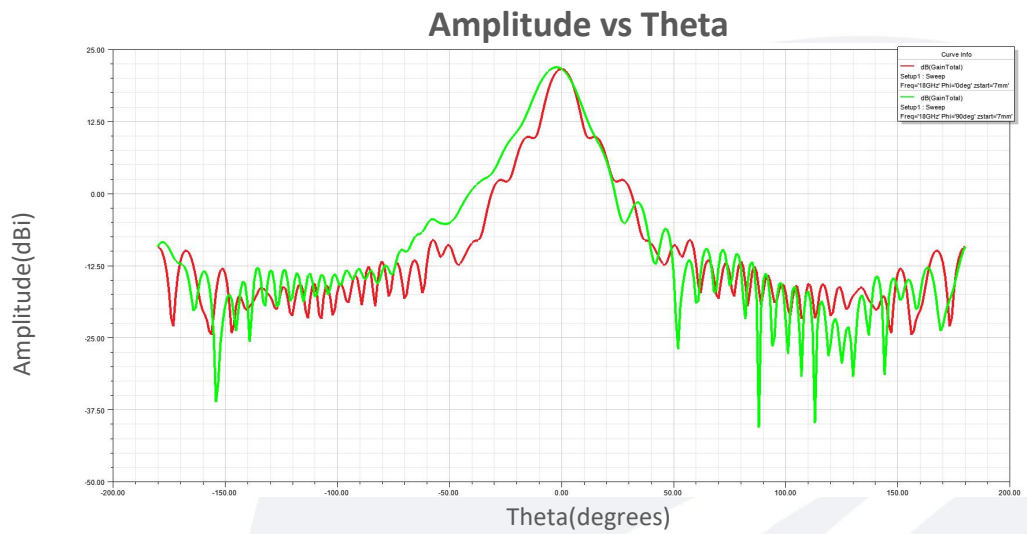
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典型曲线 Typical Performance Data:

16GHz:



18GHz:



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