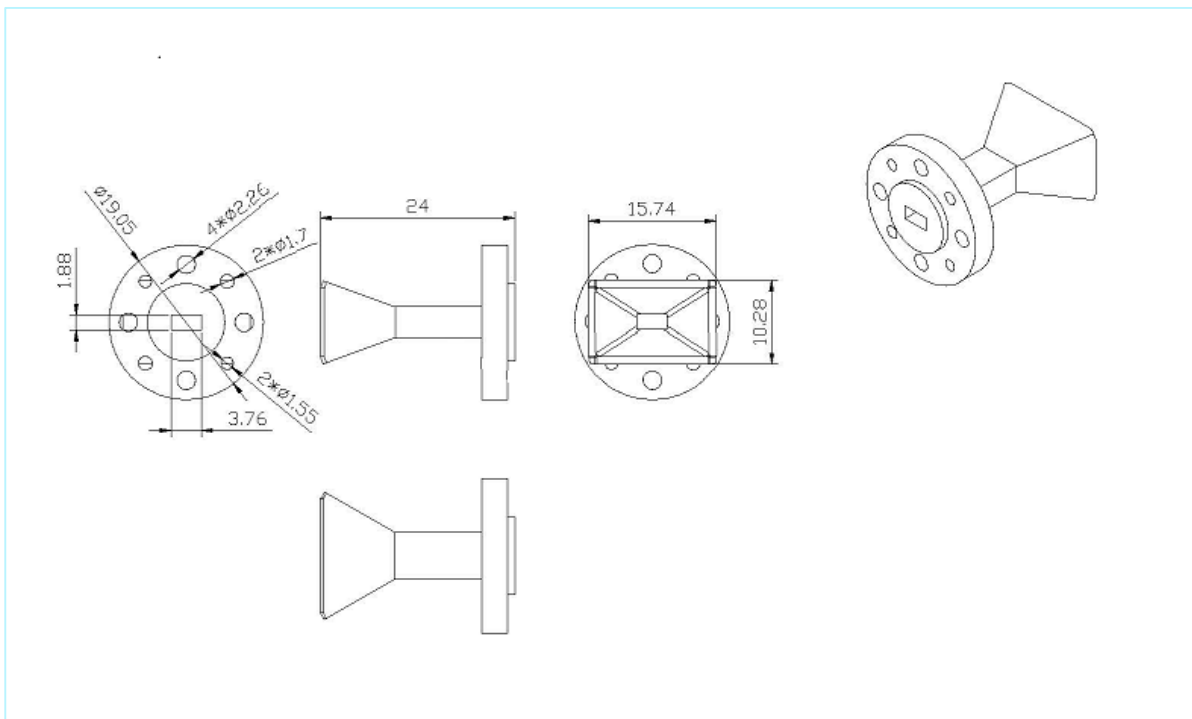


Maswell WR15 Horn Antenna for WiFi mmWave and Radar 50-77GHz

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Mechanical Drawing





Maswell WR15 Horn Antenna for WiFi mmWave and Radar 50-77GHz

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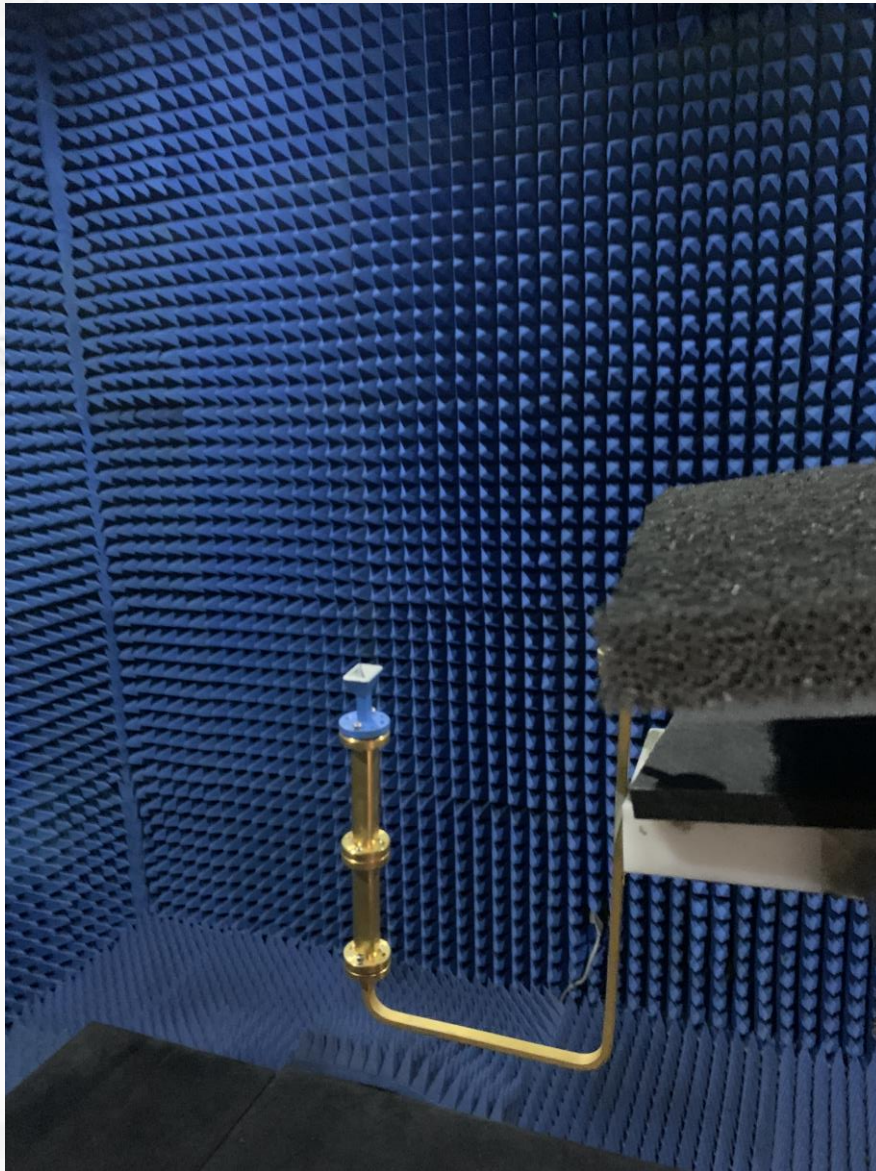
Item		Specifications
Antenna	Center Frequency	50-77GHz
	Polarization	Linear
	Gain	15dBi
	V.S.W.R	<1.3
Mechanical	Dimension	24.0mm*19.1mm*19.1mm
	Cable	N/A
	Connector	WR 15 flange
	Mounting Method	Screw
Environmental	Environmentally Friendly	ROHS Compliant



Maswell WR15 Horn Antenna for WiFi mmWave and Radar 50-77GHz

AN.Horn.WF.mmwave.50.77.WR15

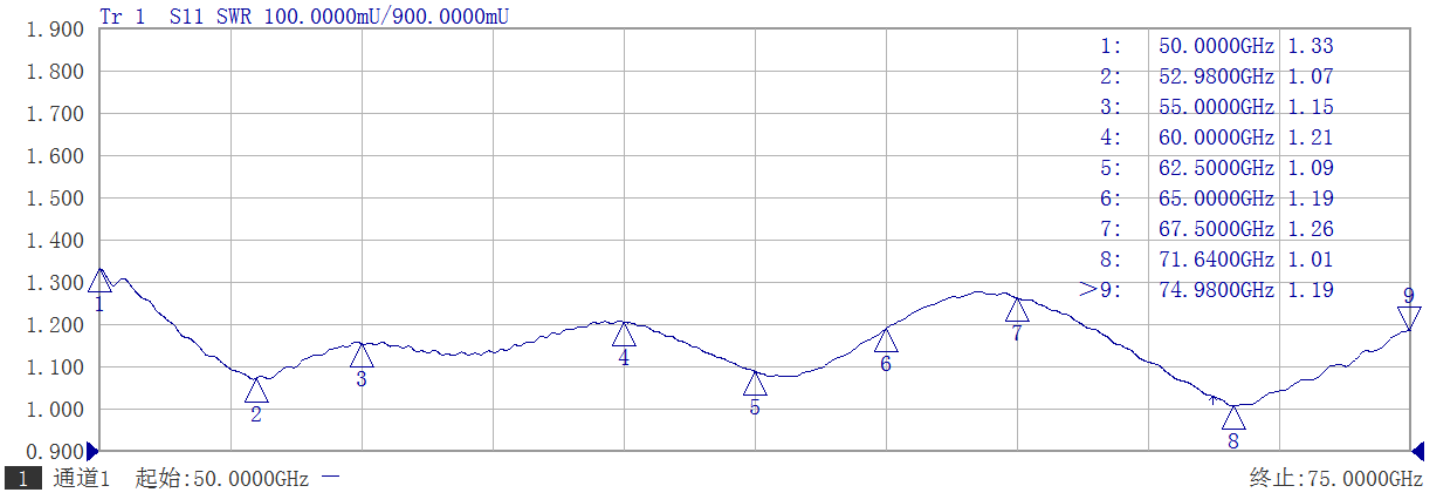
Measurement Setting in mmWave Anechoic Chamber



Maswell WR15 Horn Antenna for WiFi mmWave and Radar 50-77GHz

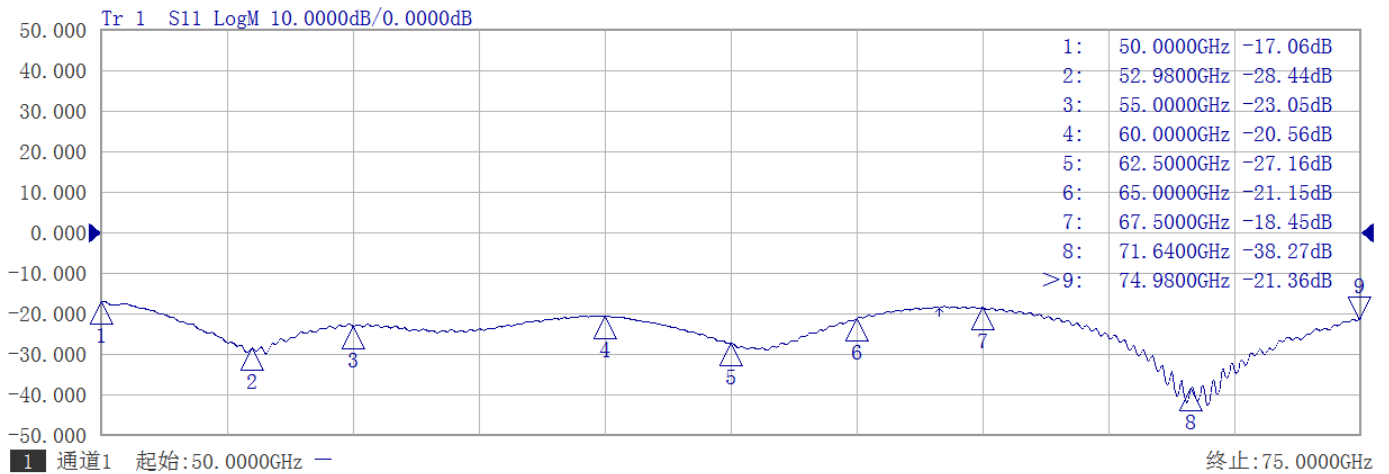
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Measured Reflection Coefficient Results VSWR



通道1	扫描类型	起始频率	终止频率	扫描点数	中频带宽(Hz)	扫描时间(s)	端口1,2功率(dBm)
通道1	线性扫描	50.000000000GHz	75.000000000GHz	2501	1000	2.332773	0.0, 0.0

S11

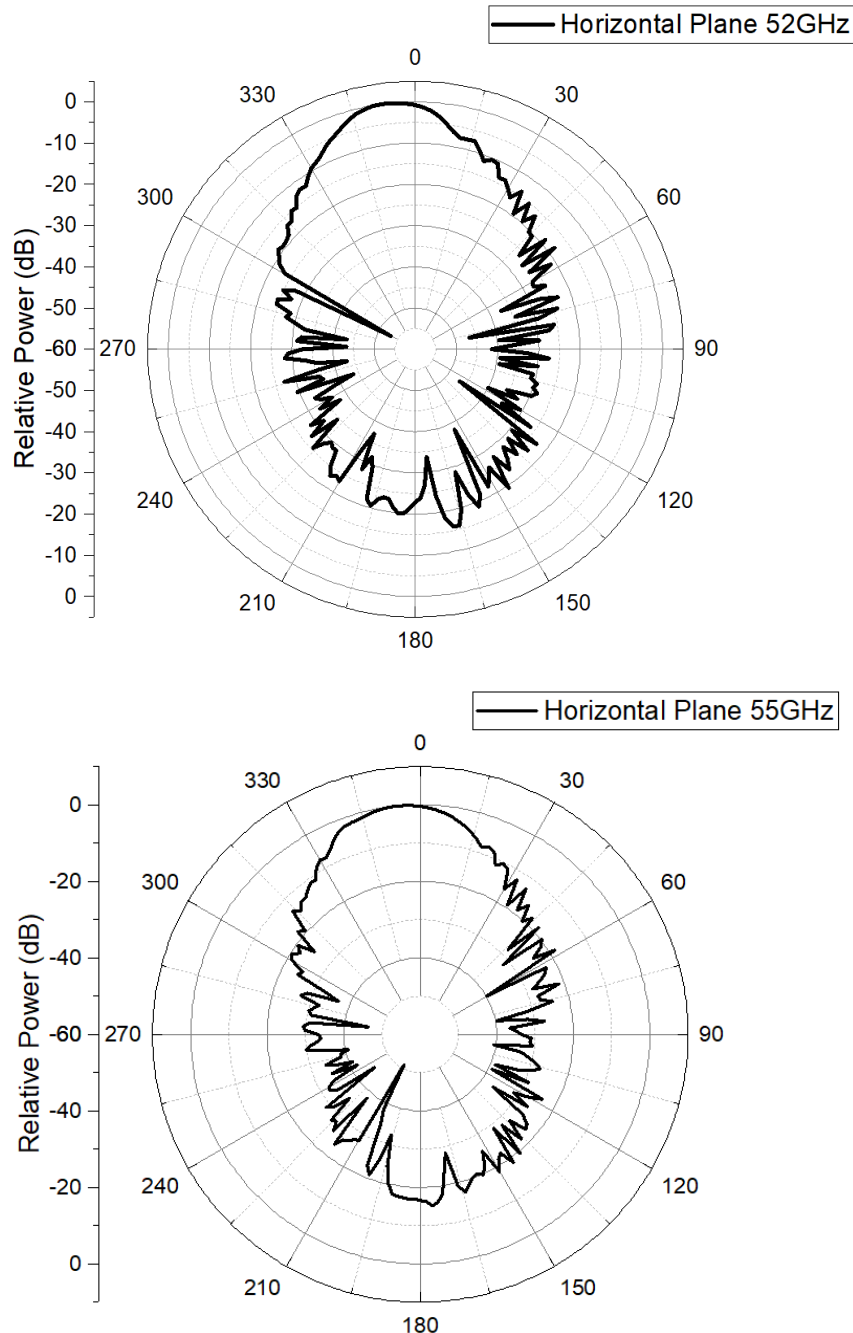


通道1	扫描类型	起始频率	终止频率	扫描点数	中频带宽(Hz)	扫描时间(s)	端口1,2功率(dBm)
通道1	线性扫描	50.000000000GHz	75.000000000GHz	2501	1000	2.332773	0.0, 0.0

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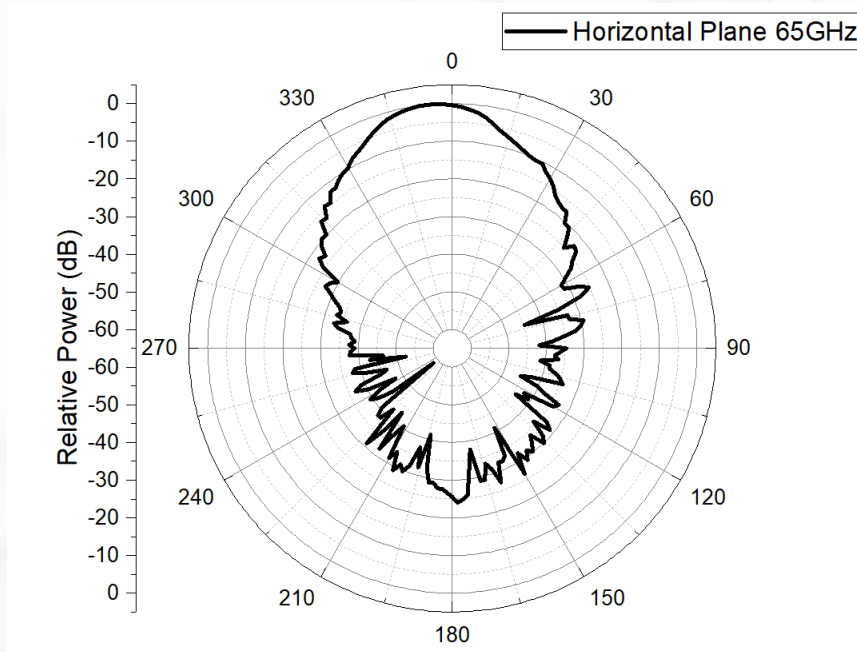
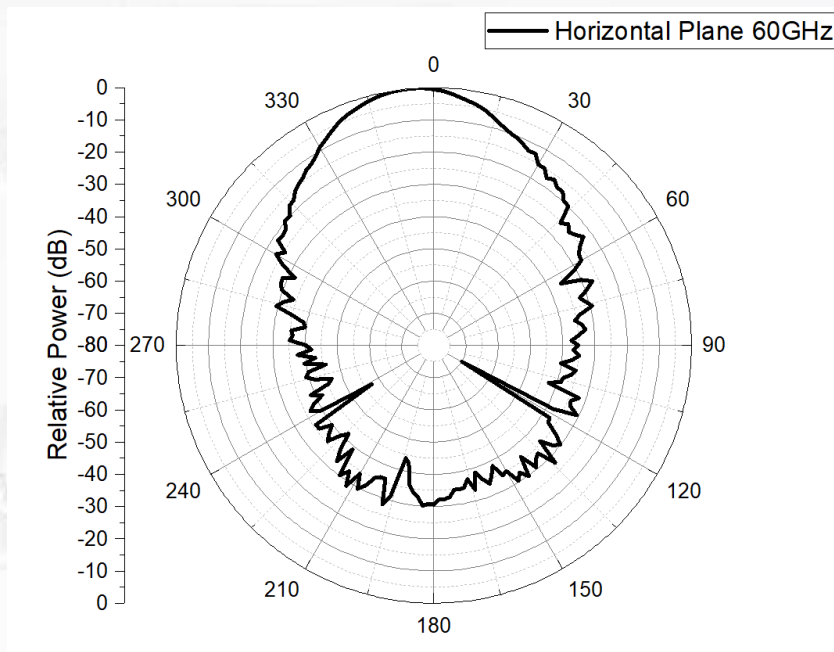
Radiation Pattern (Horizontal Plane) at 52GHz and 55GHz



Maswell WR15 Horn Antenna for WiFi mmWave and Radar 50-77GHz

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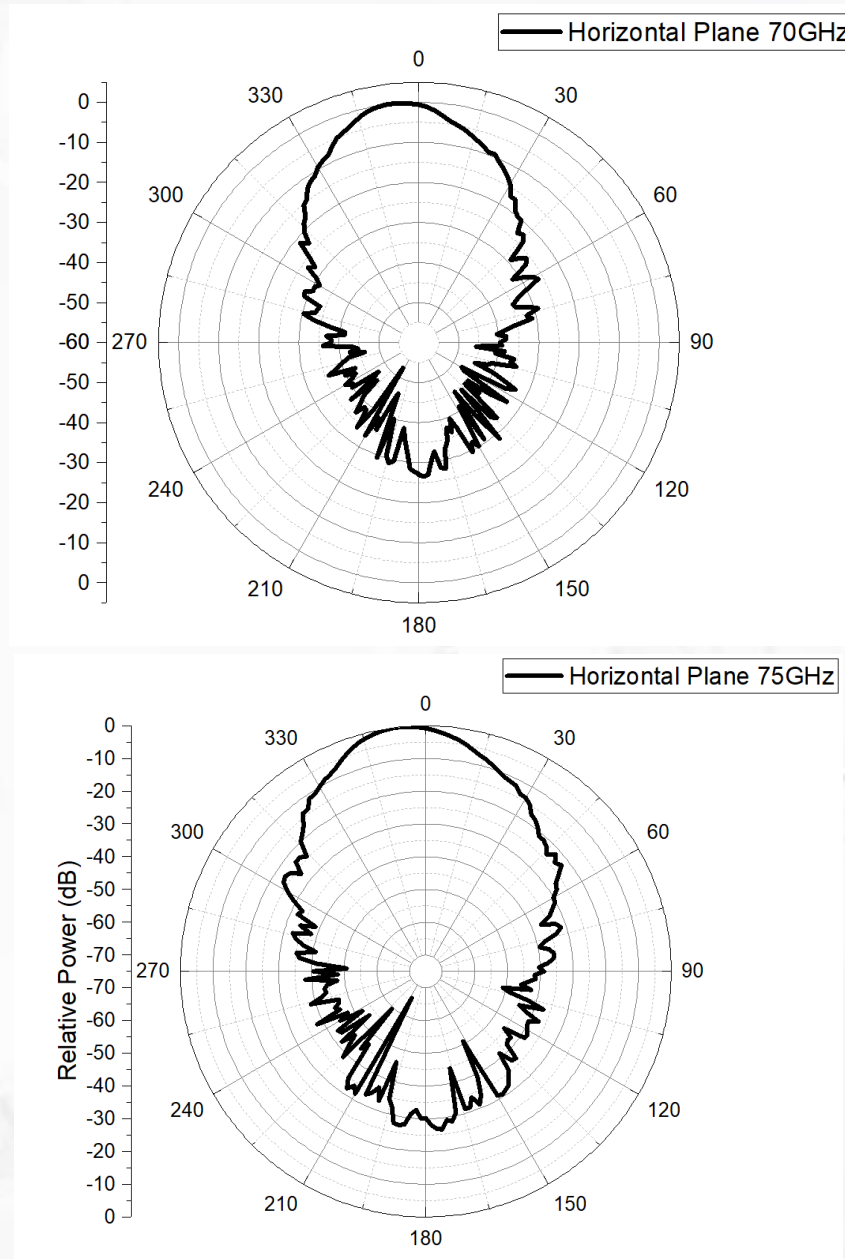
Radiation Pattern (Horizontal Plane) at 60GHz and 65GHz



Maswell WR15 Horn Antenna for WiFi mmWave and Radar 50-77GHz

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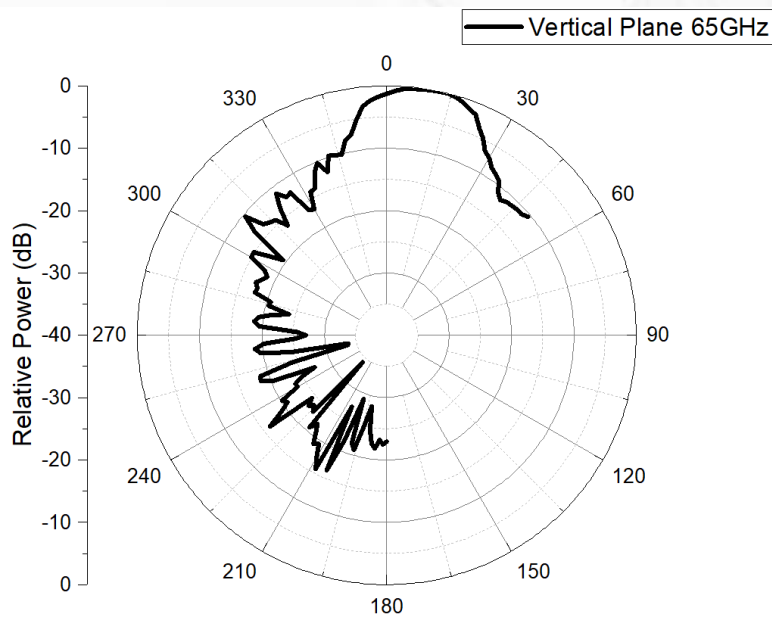
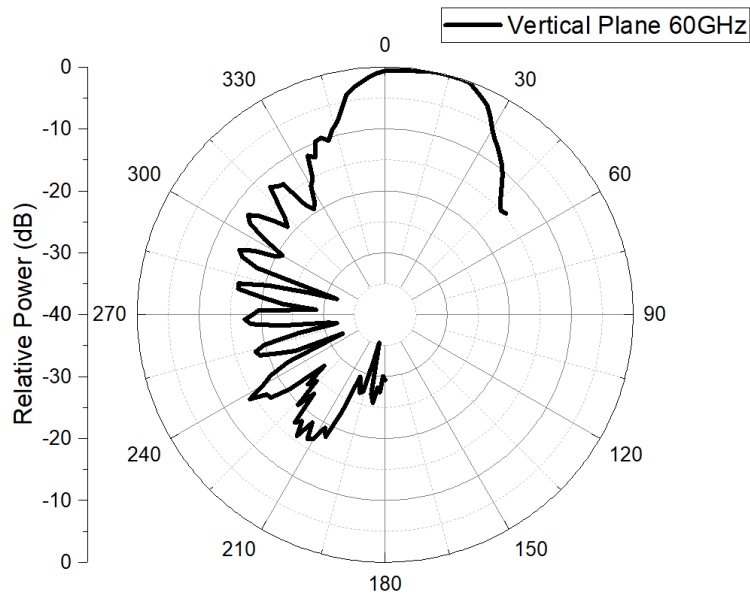
Radiation Pattern (Horizontal Plane) at 70GHz and 75GHz



Maswell WR15 Horn Antenna for WiFi mmWave and Radar 50-77GHz

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Radiation Pattern (Vertical Plane) at 60GHz and 65GHz

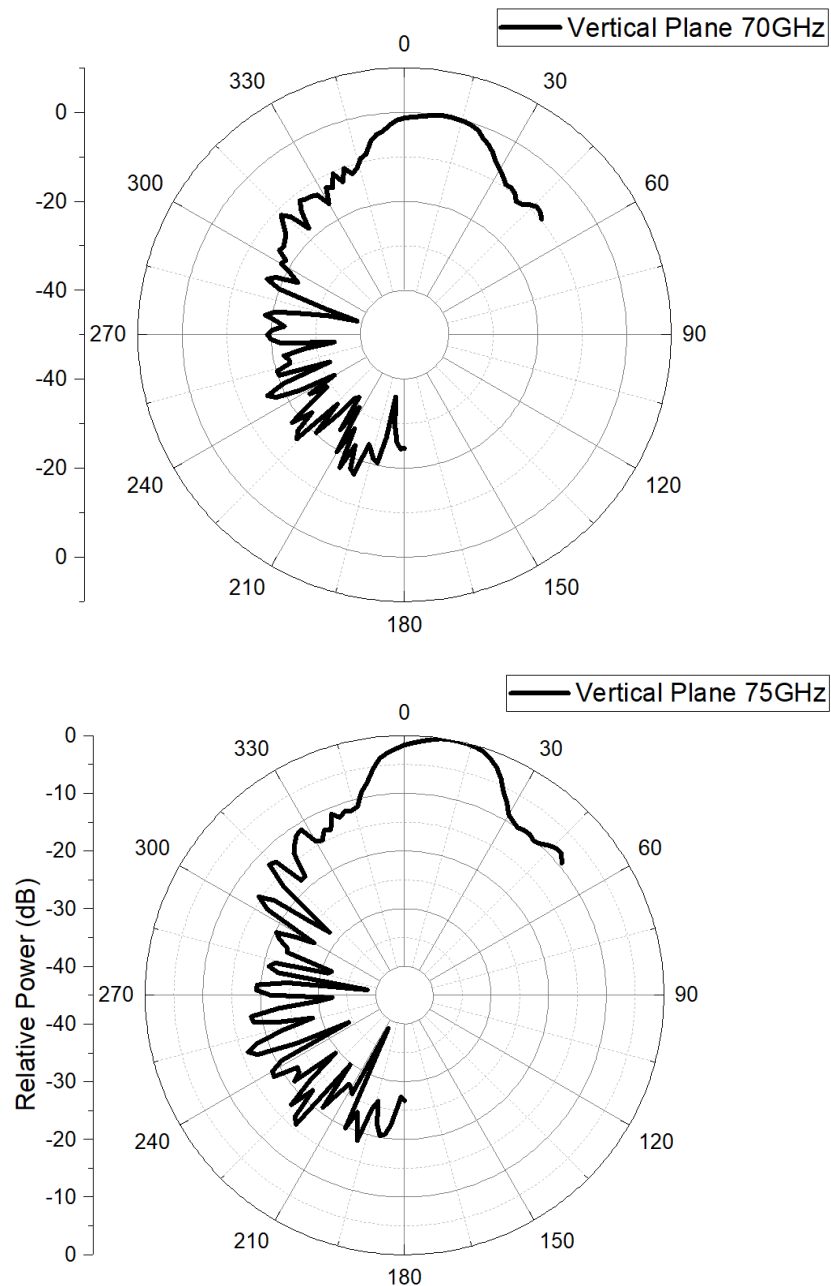


Only available to 50° due to blockage in vertical plane in mmWave System

Maswell WR15 Horn Antenna for WiFi mmWave and Radar 50-77GHz

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Radiation Pattern (Vertical Plane) at 70GHz and 75GHz



Only available to 50° due to blockage in vertical plane in mmWave System

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Measured Gain Results

Frequency (GHz)	Gain (dBi)
52GHz	14. 589924
55GHz	13. 524488
60GHz	15. 166374
65GHz	15. 929542
70GHz	16. 102485
75GHz	16. 754246