



Innovative **Technology**
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S24517PT

w/36" pig-tail cable

Dual Band MIMO

Point to Point

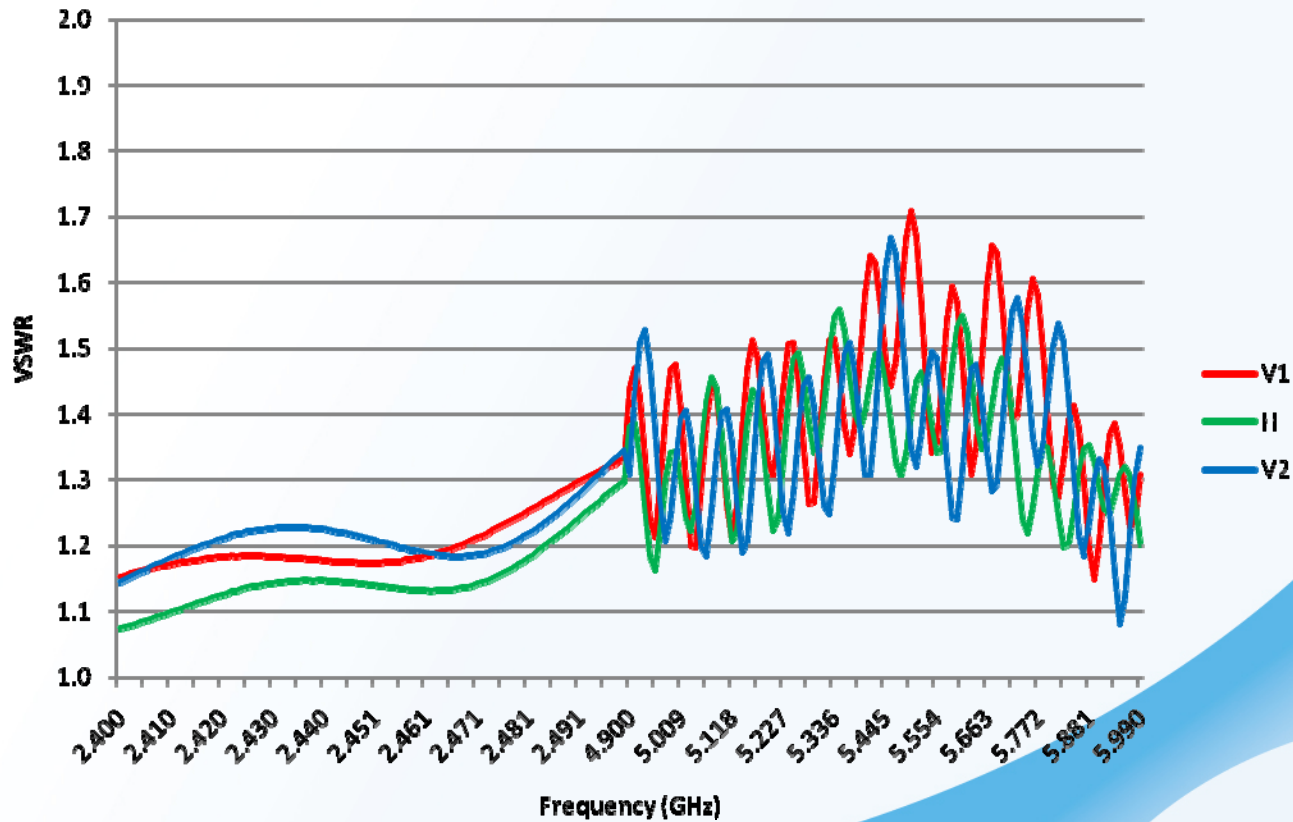
2.4-2.5 / 5.15-5.9 GHz

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VSWR



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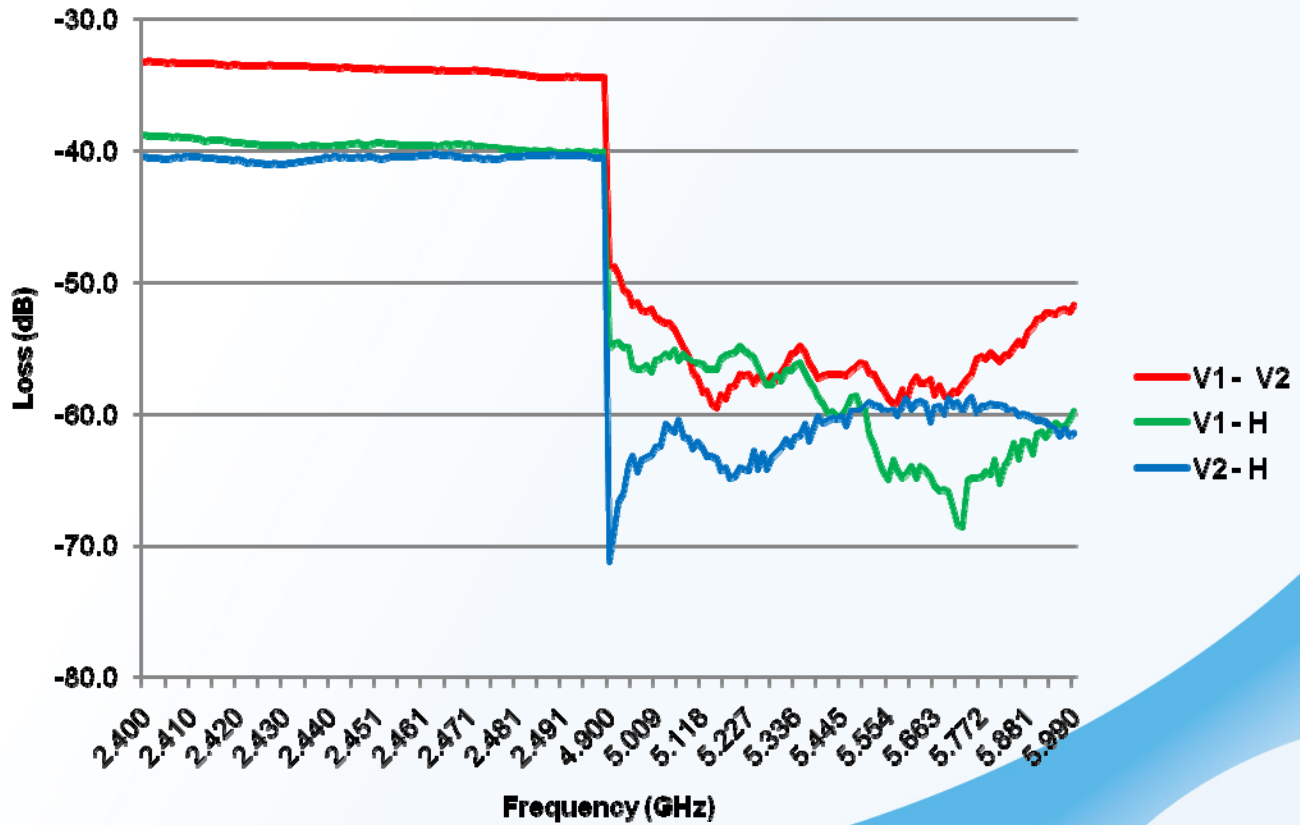
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Port to Port Isolation



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Radiation Patterns

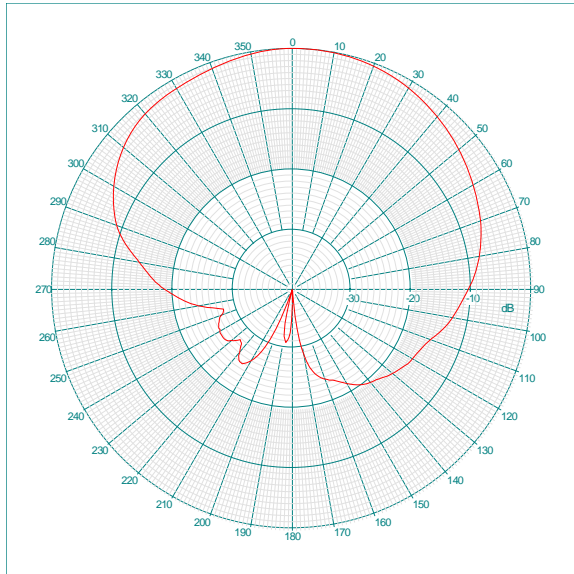
Port 1 (V-Pol)

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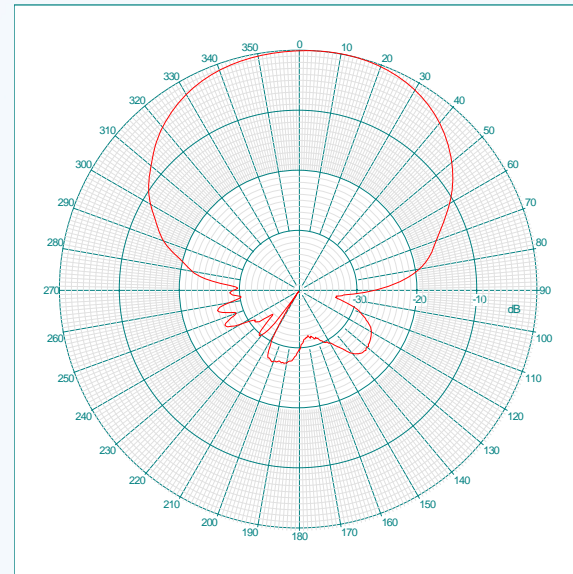


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Radiation Patterns (2.4 GHz)



H-Plane
Gain = 6.28 dBi
Beam Width = 91.38 deg



E-Plane
Peak Gain Angle = 9 deg
Beam Width = 71.01 deg

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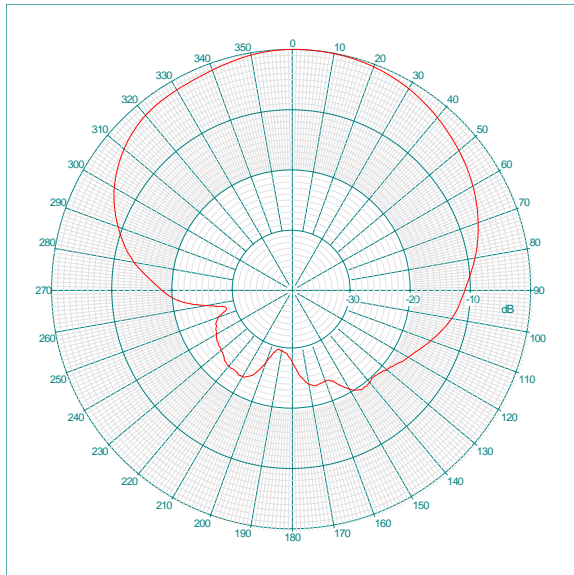
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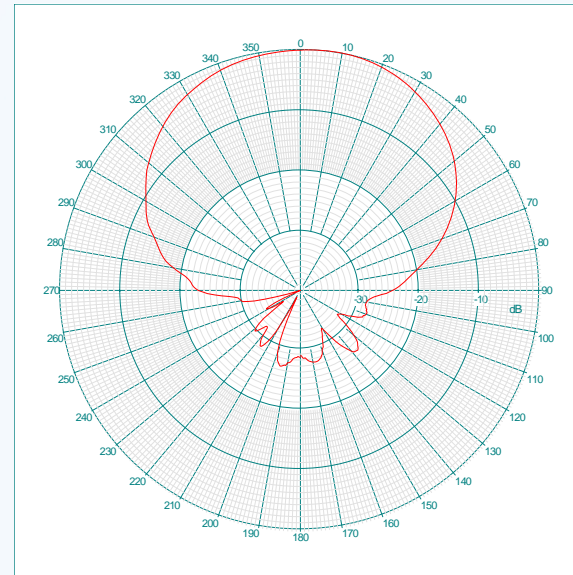


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Radiation Patterns (2.45 GHz)



H-Plane
Gain = 6.65 dBi
Beam Width = 90.80 deg



E-Plane
Peak Gain Angle = 8 deg
Beam Width = 68.87 deg

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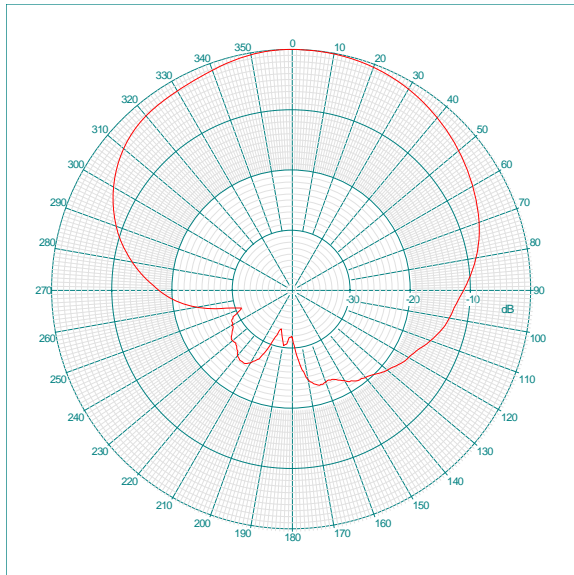
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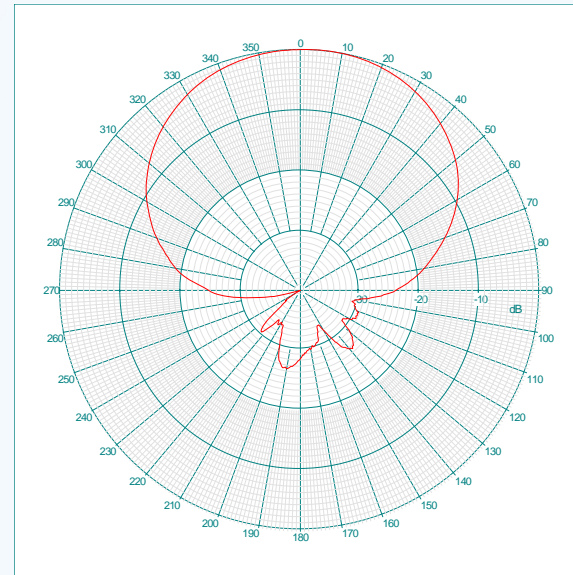


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Radiation Patterns (2.5 GHz)



H-Plane
Gain = 6.55 dBi
Beam Width = 90.88 deg



E-Plane
Peak Gain Angle = 4 deg
Beam Width = 68.93 deg

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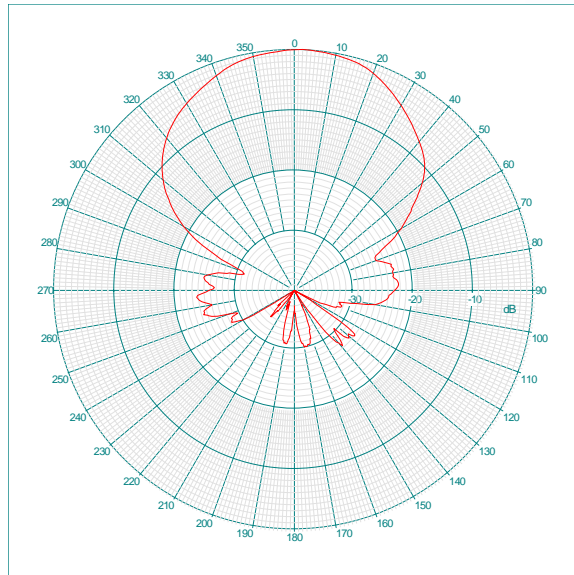


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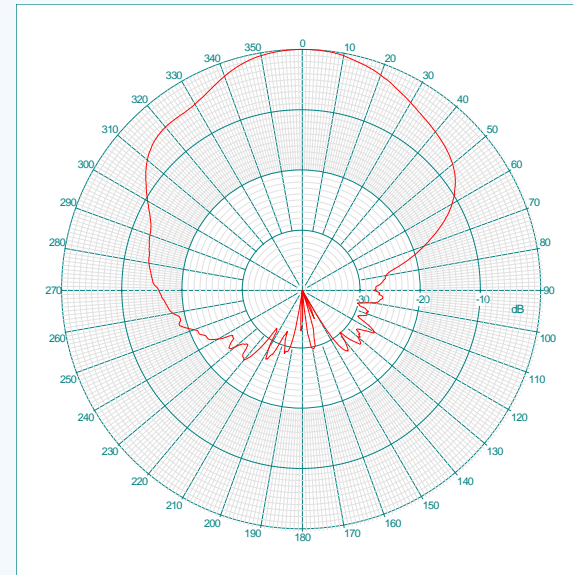


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Radiation Patterns (5.15 GHz)



H-Plane
Gain = 8.66 dBi
Beam Width = 49.23 deg



E-Plane
Peak Gain Angle = 2 deg
Beam Width = 48.30 deg

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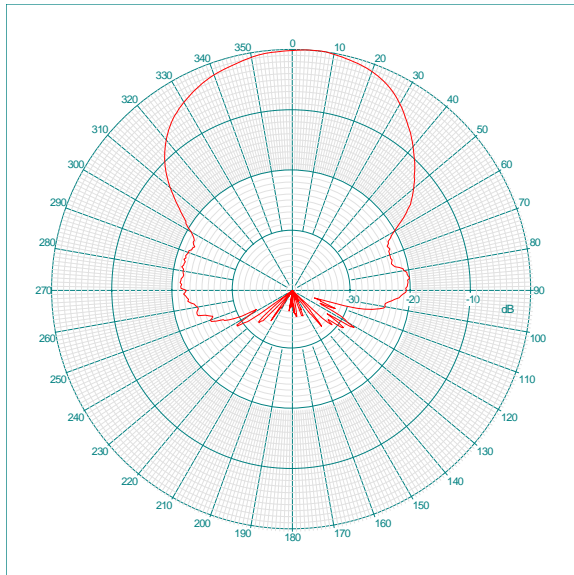


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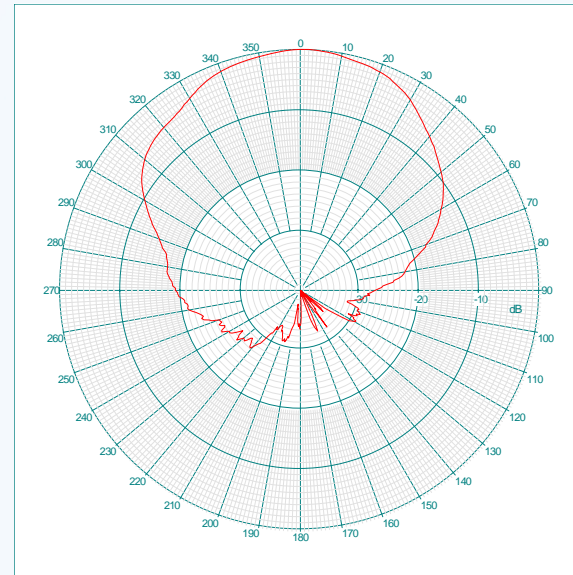


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Radiation Patterns (5.47 GHz)



H-Plane
Gain = 8.76 dBi
Beam Width = 52.70 deg



E-Plane
Peak Gain Angle = 2 deg
Beam Width = 57.48 deg

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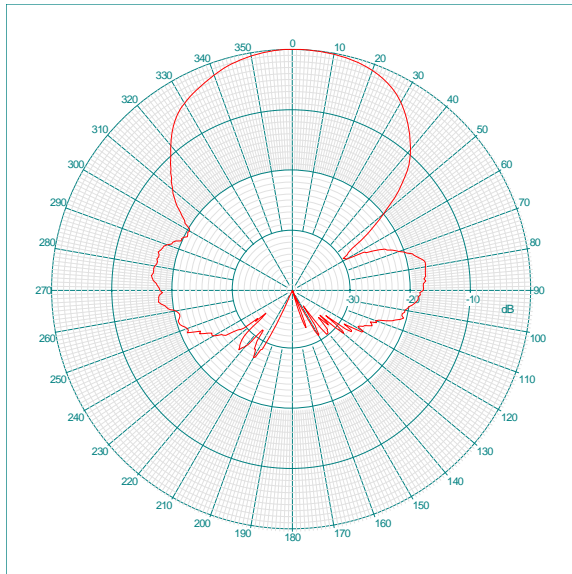


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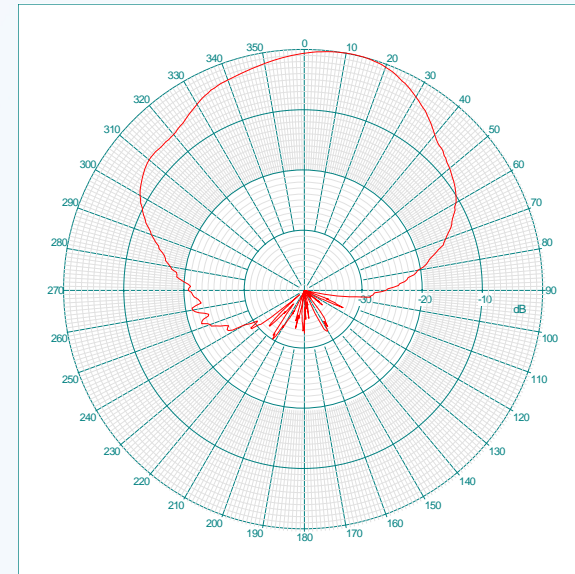


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Radiation Patterns (5.9 GHz)



H-Plane
Gain = 8.84 dBi
Beam Width = 52.63 deg



E-Plane
Peak Gain Angle = 12 deg
Beam Width = 52.44 deg

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Radiation Patterns

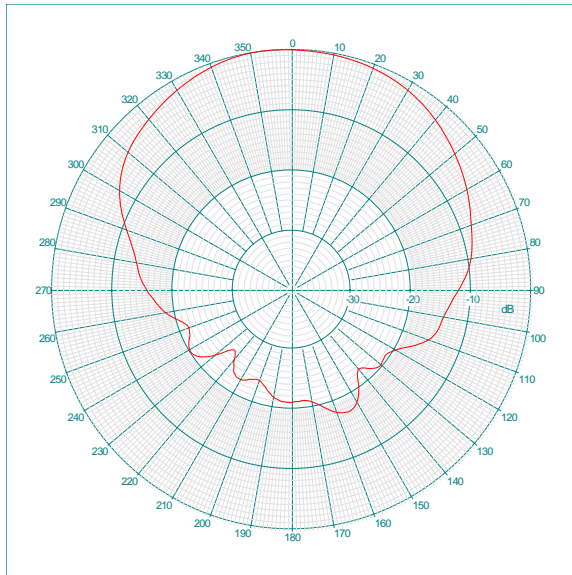
Port 2 (H-Pol)

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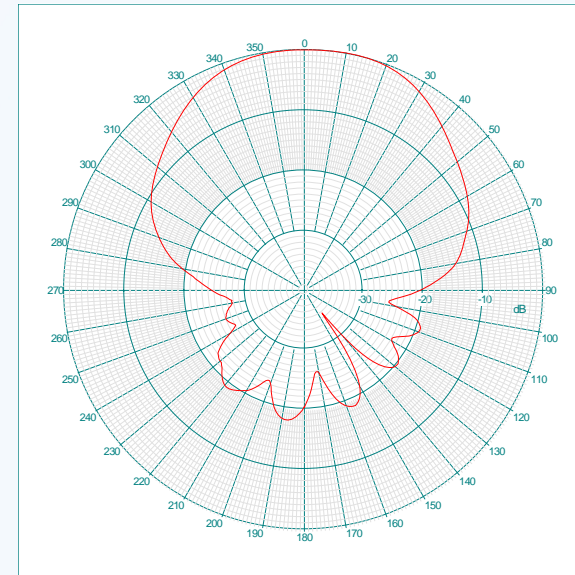


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Radiation Patterns (2.4 GHz)



H-Plane
Gain = 6.58 dBi
Beam Width = 80.57 deg



E-Plane
Peak Gain Angle = 12 deg
Beam Width = 64.60 deg

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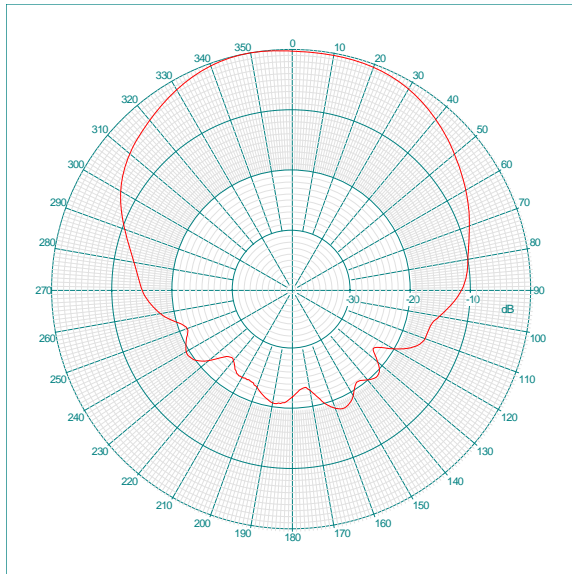


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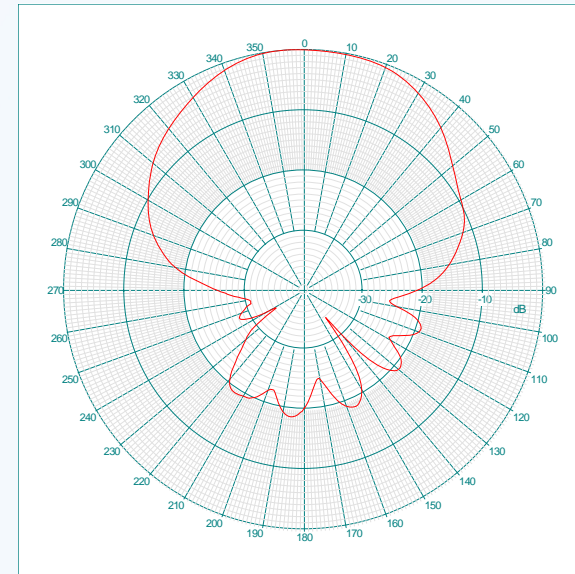


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Radiation Patterns (2.45 GHz)



H-Plane
Gain = 6.67 dBi
Beam Width = 79.70 deg



E-Plane
Peak Gain Angle = 354 deg
Beam Width = 63.39 deg

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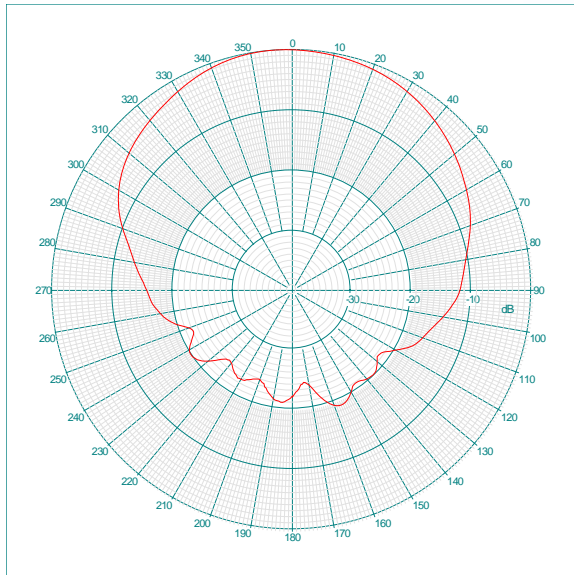


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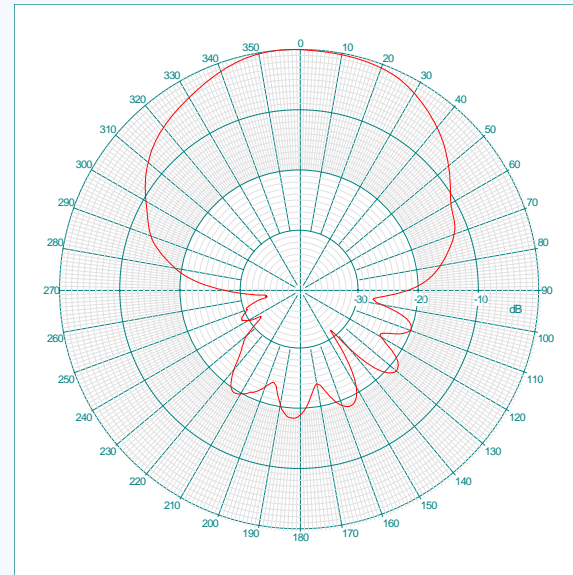


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Radiation Patterns (2.5 GHz)



H-Plane
Gain = 6.75 dBi
Beam Width = 76.76 deg



E-Plane
Peak Gain Angle = 357 deg
Beam Width = 63.32 deg

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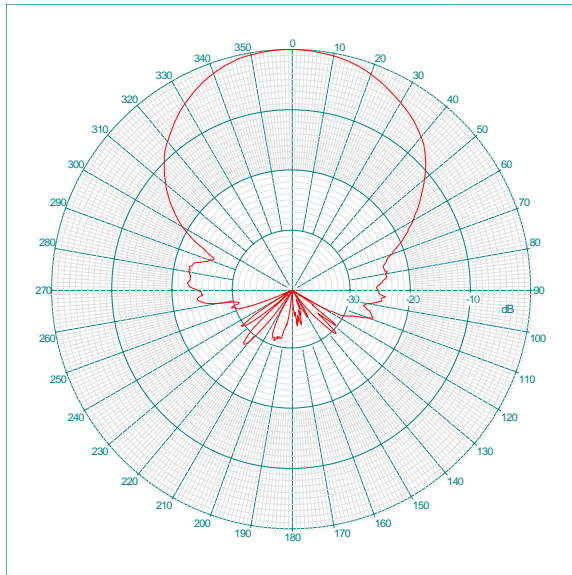
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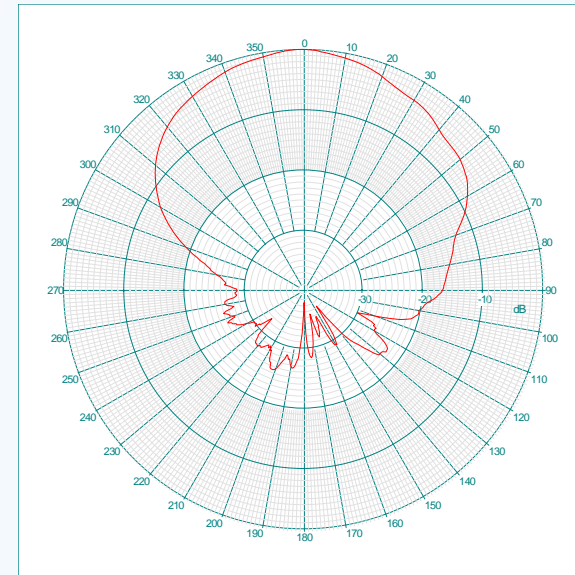


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Radiation Patterns (5.15 GHz)



H-Plane
Gain = 7.68 dBi
Beam Width = 51.21 deg



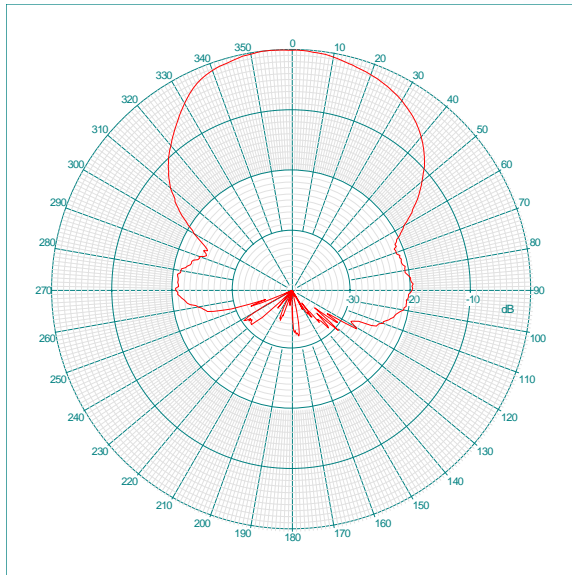
E-Plane
Peak Gain Angle = 359 deg
Beam Width = 55.28 deg

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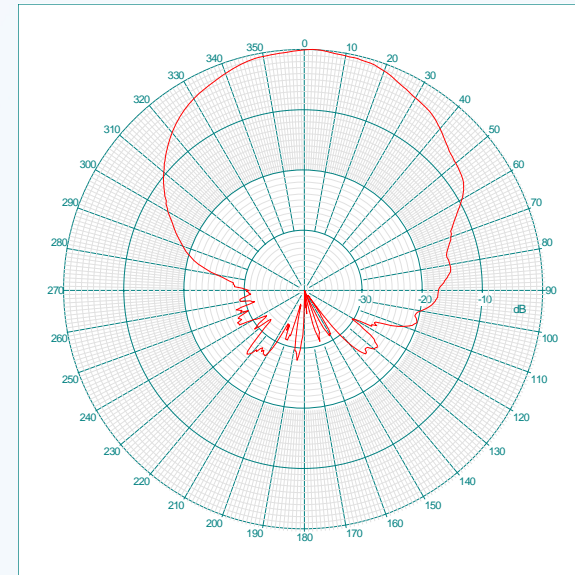


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Radiation Patterns (5.47 GHz)



H-Plane
Gain = 7.54 dBi
Beam Width = 54.16 deg



E-Plane
Peak Gain Angle = 2 deg
Beam Width = 57.71 deg

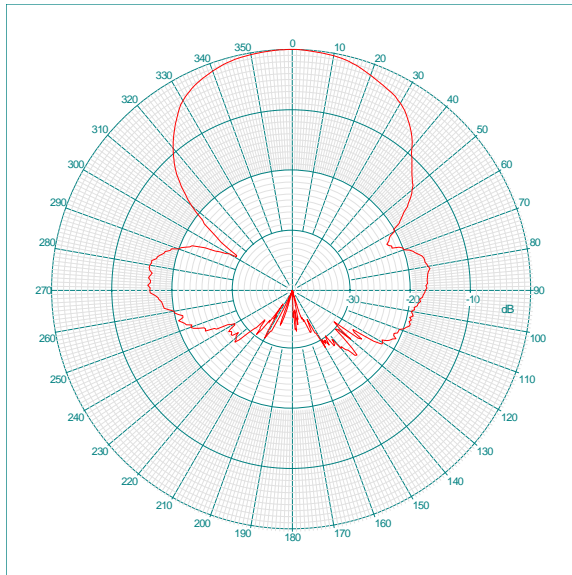
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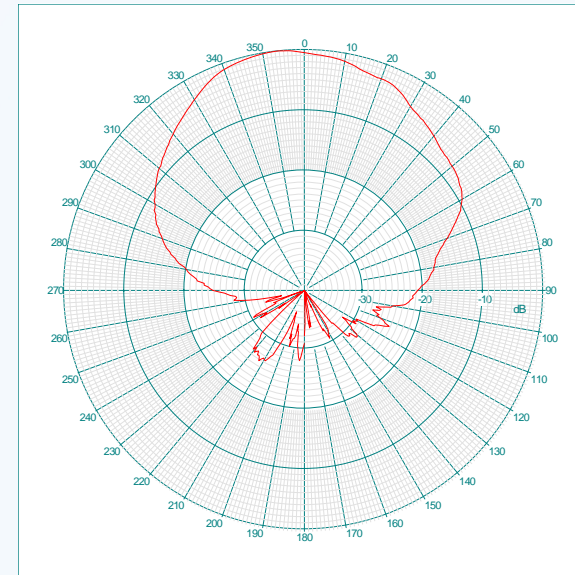


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Radiation Patterns (5.9 GHz)



H-Plane
Gain = 7.65 dBi
Beam Width = 53.07 deg



E-Plane
Peak Gain Angle = 353 deg
Beam Width = 52.38 deg

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Radiation Patterns

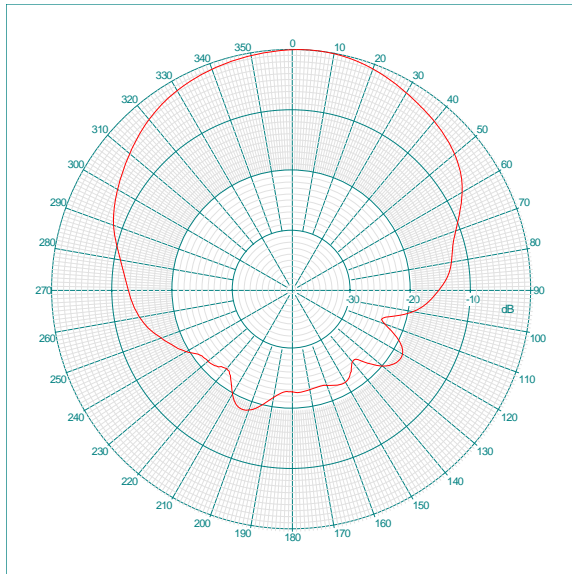
Port 3 (V-Pol)

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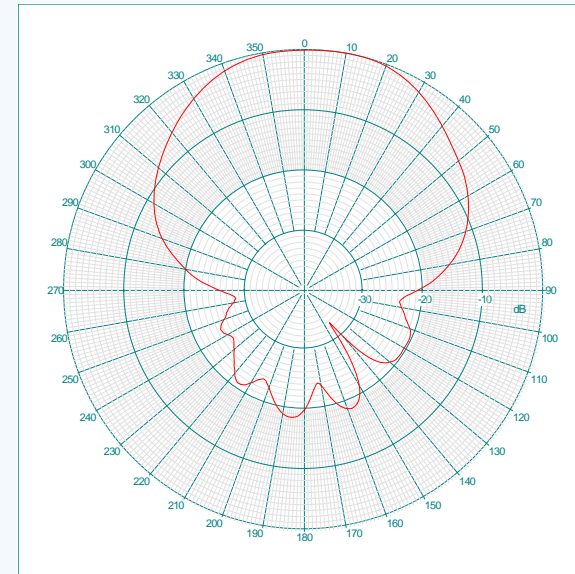


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Radiation Patterns (2.4 GHz)



H-Plane
Gain = 7.03 dBi
Beam Width = 77.16 deg



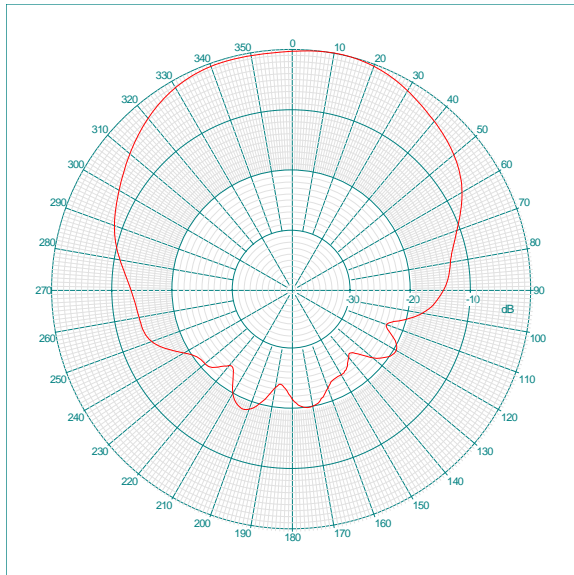
E-Plane
Peak Gain Angle = 10 deg
Beam Width = 63.33 deg

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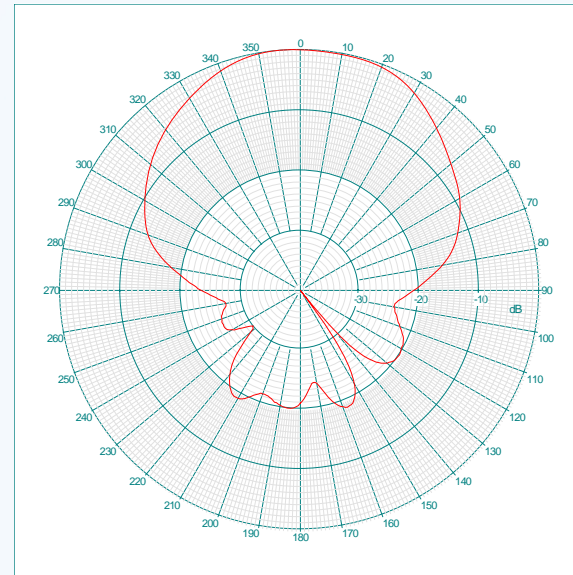


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Radiation Patterns (2.45 GHz)



H-Plane
Gain = 6.99 dBi
Beam Width = 79.25 deg



E-Plane
Peak Gain Angle = 355 deg
Beam Width = 62.45 deg

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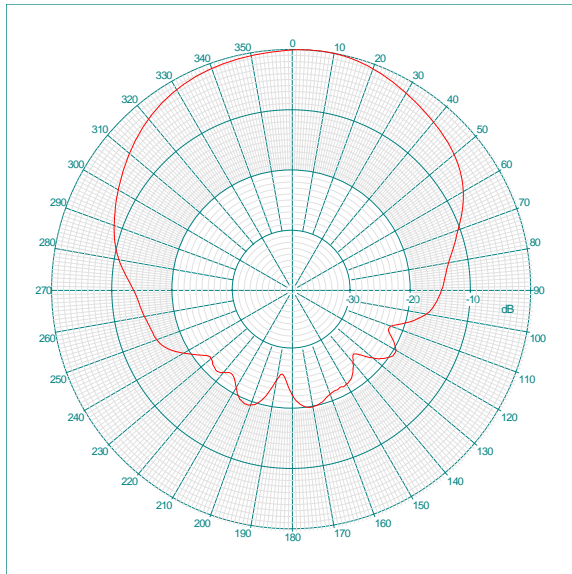
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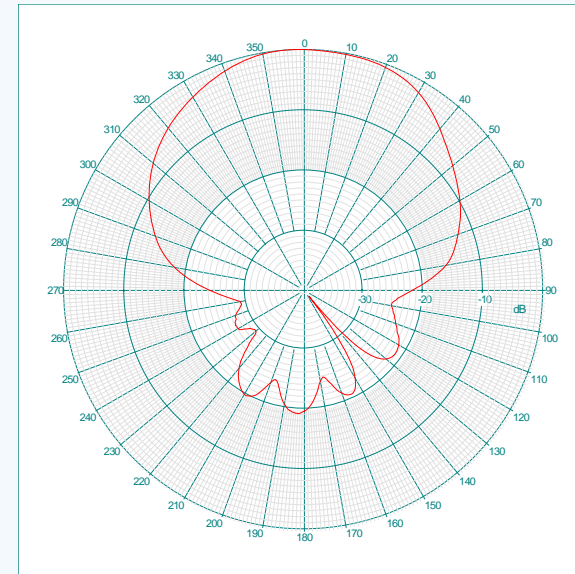


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Radiation Patterns (2.5 GHz)



H-Plane
Gain = 7.13 dBi
Beam Width = 76.76 deg



E-Plane
Peak Gain Angle = 357 deg
Beam Width = 63.97 deg

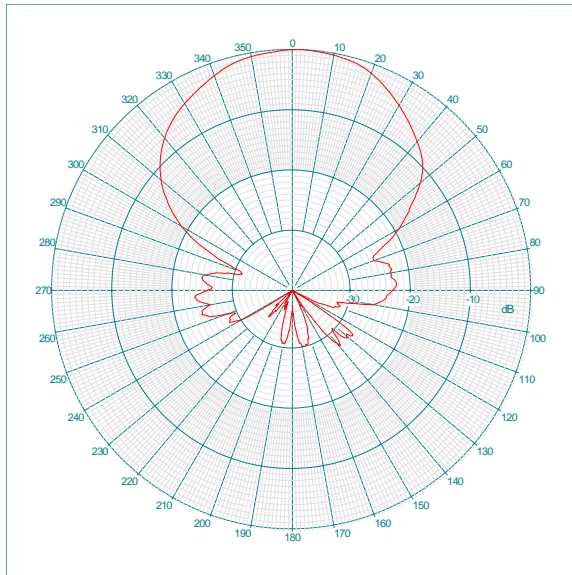
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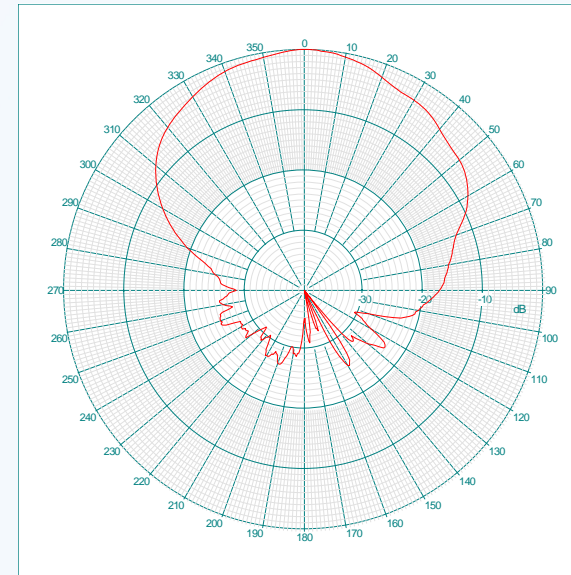


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Radiation Patterns (5.15 GHz)



H-Plane
Gain = 8.66 dBi
Beam Width = 49.23 deg



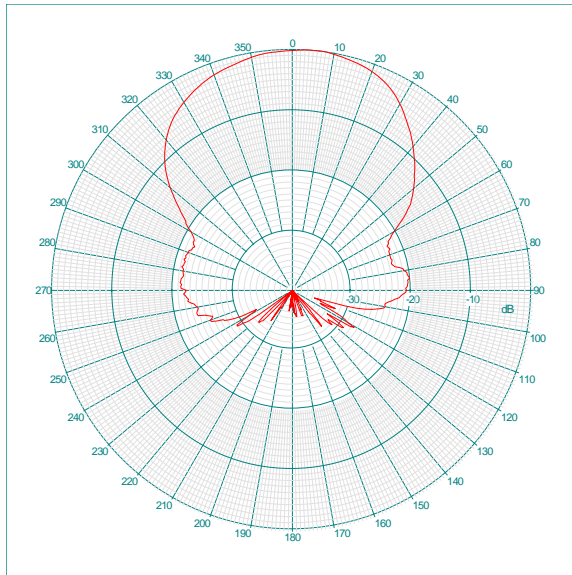
E-Plane
Peak Gain Angle = 0 deg
Beam Width = 53.67 deg

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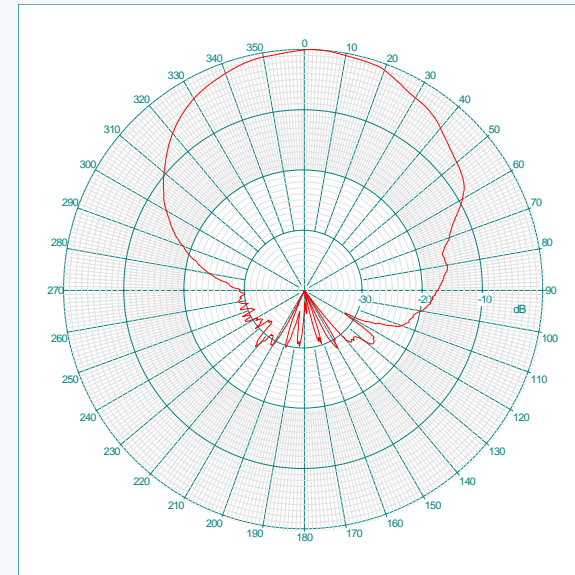


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Radiation Patterns (5.47 GHz)



H-Plane
Gain = 8.76 dBi
Beam Width = 52.70 deg



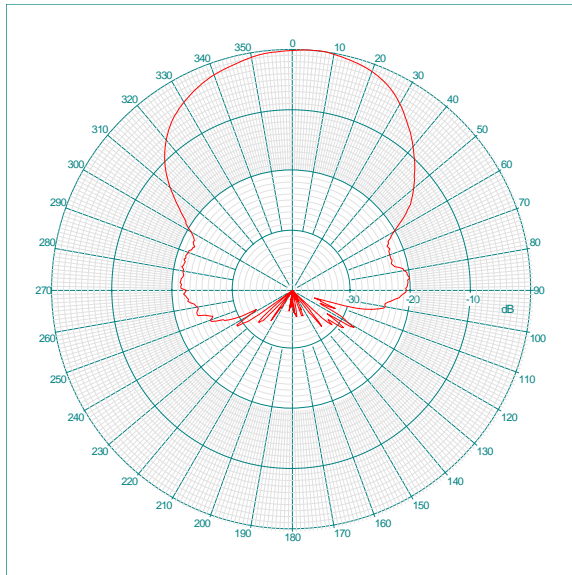
E-Plane
Peak Gain Angle = 3 deg
Beam Width = 57.66 deg

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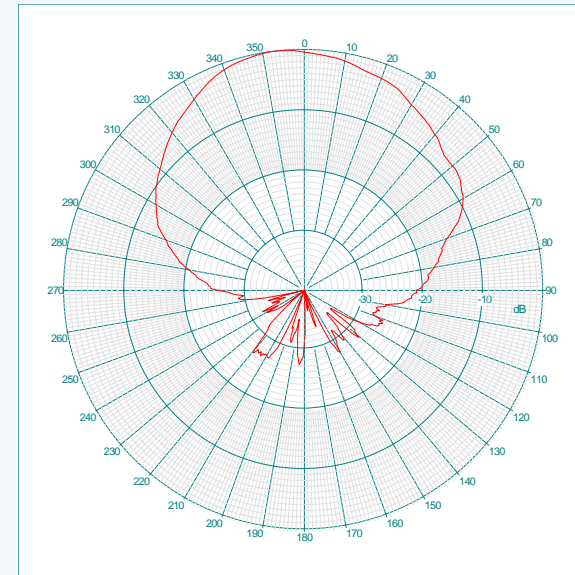


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Radiation Patterns (5.9 GHz)



H-Plane
Gain = 8.76 dBi
Beam Width = 52.70 deg



E-Plane
Peak Gain Angle = 353 deg
Beam Width = 52.48 deg

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Data Summary

Standard		Measured		
		P1 (V-Pol)	P2 (H-Pol)	P3 (V-Pol)
Peak Gain				
2.4 - 2.5 GHz (dBi)		6.65	6.75	7.13
5.15 - 5.9 GHz (dBi)		8.84	7.68	8.76
H- Plane 3 dB Beam Width				
2.4 - 2.5 GHz (deg)		91.02	79.01	77.72
5.15 - 5.9 GHz (deg)		51.52	52.81	51.54
E-Plane 3 dB Beam Width				
2.4 - 2.5 GHz (deg)		69.60	63.77	63.24
5.15 - 5.9 GHz (deg)		52.74	55.12	54.60
VSWR (Max)				
2.4-2.5 GHz	2:1	1.50	1.43	1.35
5.15-5.9 GHz	2:1	1.68	1.60	1.58
Port to Port Isolation (Max)				
2.4-2.5 GHz		-33.13	-38.80	-40.25
5.15-5.9 GHz		-48.80	-54.50	-58.68

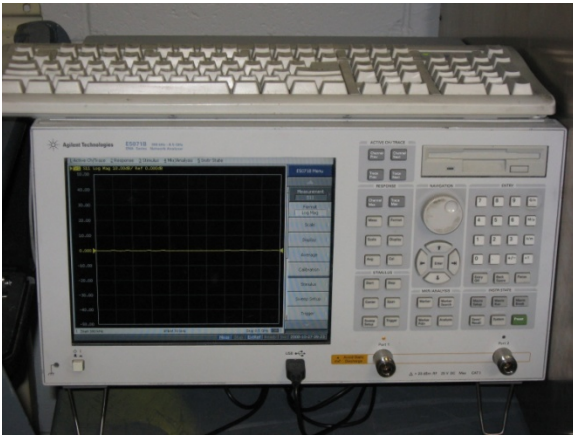
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Test Equipment Summary (VSWR)

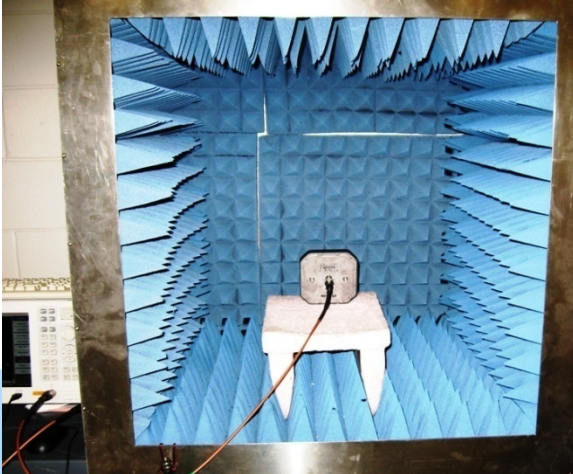


Analyzer

- Agilent E5071B network analyzer
- Maximum frequency range: 300 kHz – 8.5 GHz
- Calibration certified annually (system)
- Calibrated per OSL standard (test)

Testing Chamber

- 36"H x 36"W x 34"D
- Absorber material: Pyramid 2"W x 2"L x 5"H / division

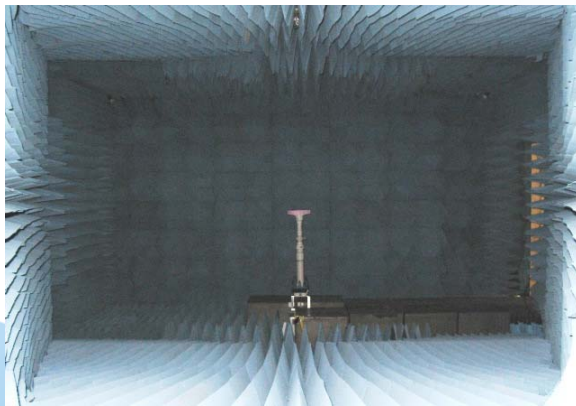
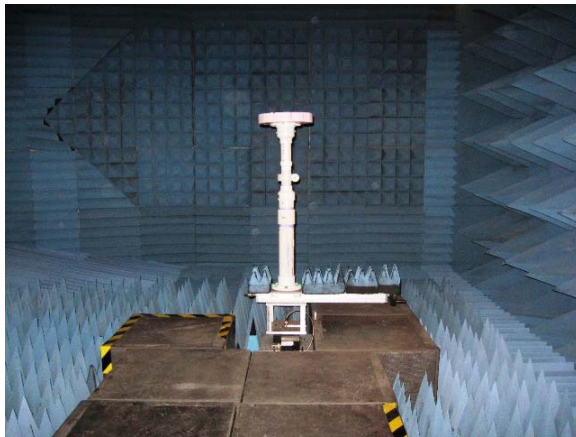


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Test Equipment Summary (Radiation Patterns)



Testing Chamber:

- Test chamber is a single axis, single source system comprising a network analyzer, positioner / controller and tapered anechoic chamber. The system is calibrated prior to each test. All components are calibrated annually as required.
- Dimensions:
 - 8.8 meters from face of source to DUT center of rotation
 - 72" center of height above floor

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