



Antenna Report for DMVQ-AD01 DVT Sample

Sep. 17. 2025

Ver.02

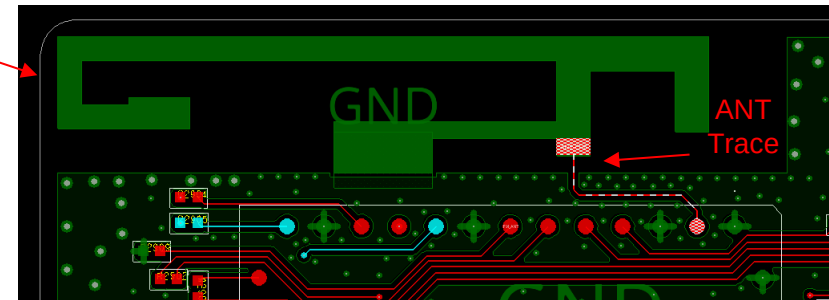


DVT Sample

Summary_(Antenna Area Size: 22mm x 4.5mm)

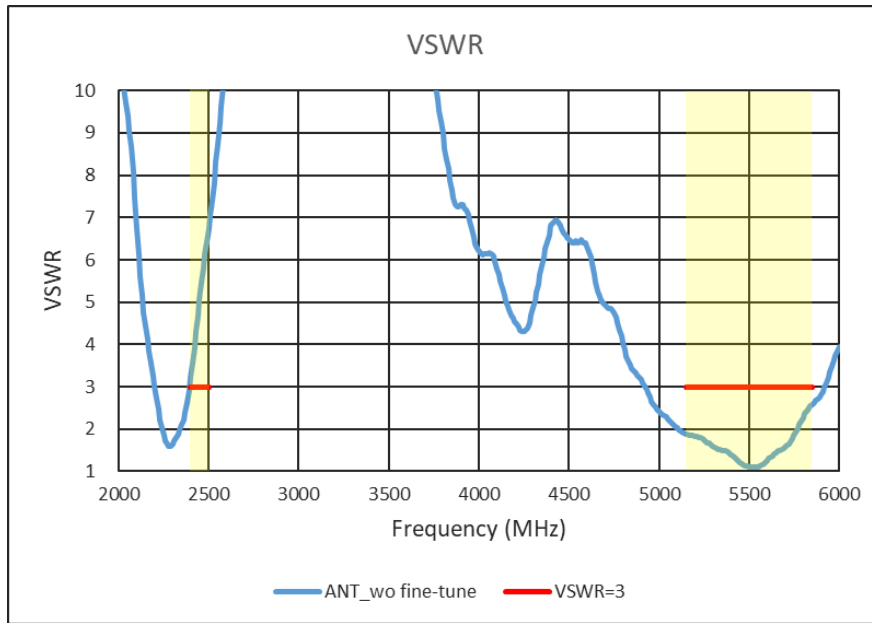
<i>VSWR</i>	<i>Expected Specification</i>	<i>Result</i>
Wi-Fi_ 2G / 5G	< 3.0 / < 3.0	< 6.7 / < 2.6
<i>Average Radiation Efficiency</i>	<i>Expected Specification</i>	<i>Result</i>
Wi-Fi_ 2G / 5G	> 40% / > 40%	~ 29.3% / ~ 62.6%
<i>Peak Gain</i>	<i>Expected Specification</i>	<i>Result</i>
Wi-Fi_ 2G / 5G		Max 1.4dBi / 2.0dBi

ANT
Layout



- ✓ Antenna area size: 22mm x 4.5mm
- ✓ Carrier board thickness: 1.0 mm
- ✓ ANT => W: 0.0635 mm ; L: 5.6077 mm

VSWR, Efficiency and Peak Gain



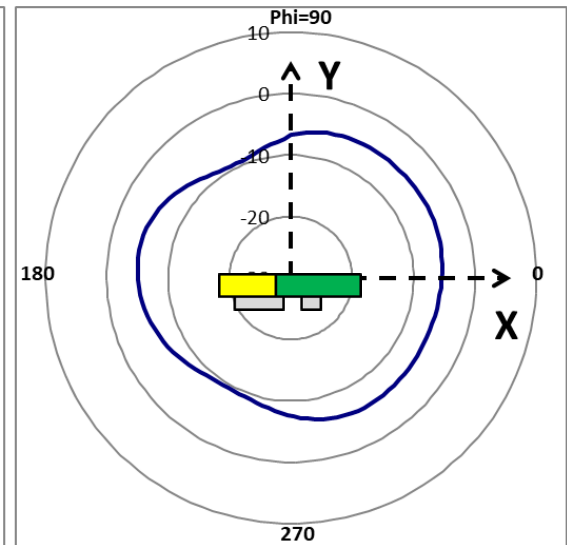
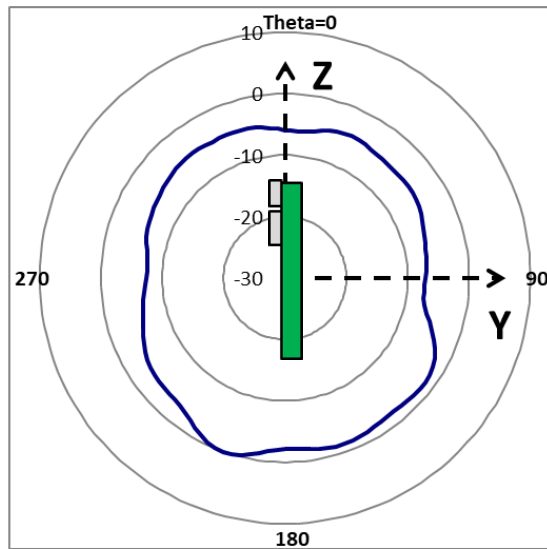
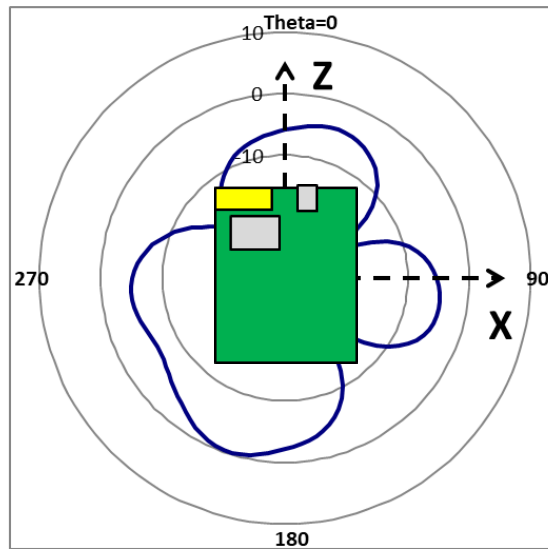
<i>ANT_w/o fine-tune</i>	2400	2450	2500	avg.	5150	5350	5550	5750	5850	avg.
Eff.	38.2%	28.7%	21.0%	29.3%	60.8%	66.8%	67.0%	62.2%	56.1%	62.6%
Eff. dB	-4.18	-5.42	-6.78		-2.16	-1.75	-1.74	-2.06	-2.51	
Peak Gain	1.41	0.26	-1.03		0.97	1.40	2.05	2.09	1.67	

Radiation Pattern for 2.4GHz

✓ Free space test

2GHz Radiation Pattern

— 2.4G ANT w/o fine-tune_DVT SAMPLE

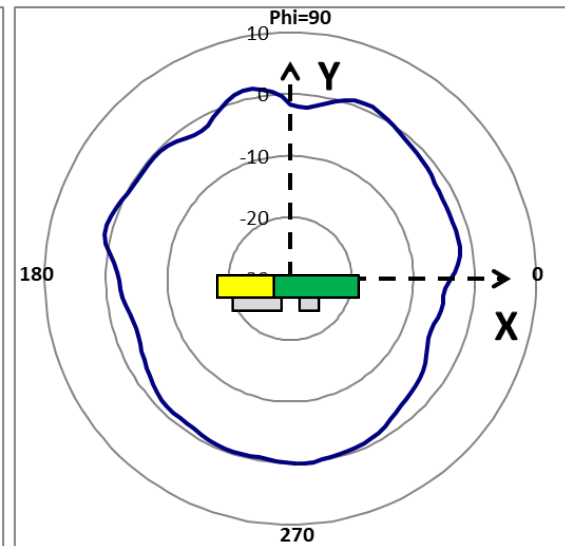
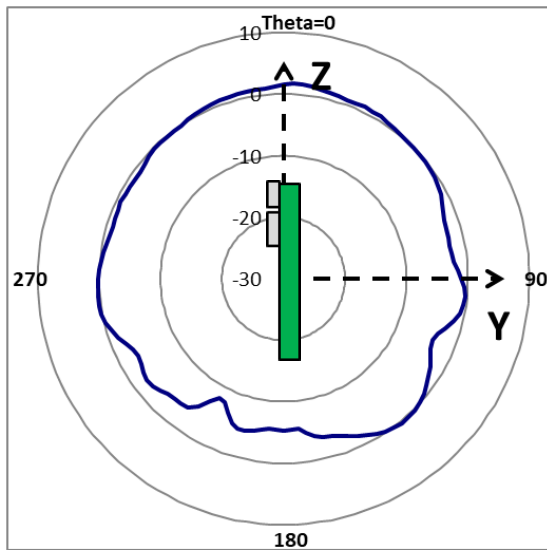
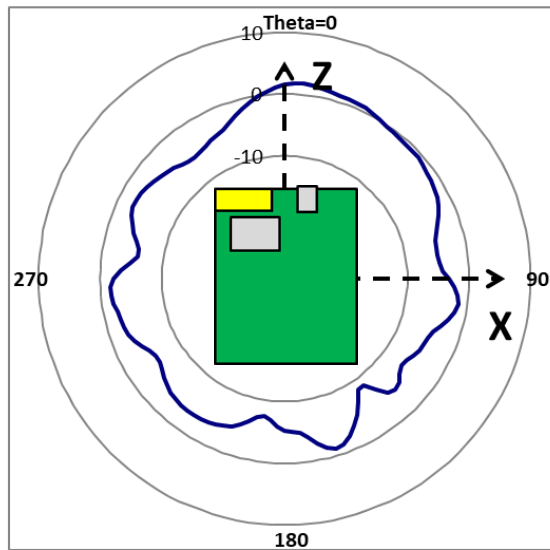


Radiation Pattern for 5GHz

✓ Free space test

5GHz Radiation Pattern

— 5G ANT w/o fine-tune_DVT SAMPLE





WNC

WNC Corporation

Thank You!