



AMTEK– LC89

Antenna Test Report

(WLAN -R)

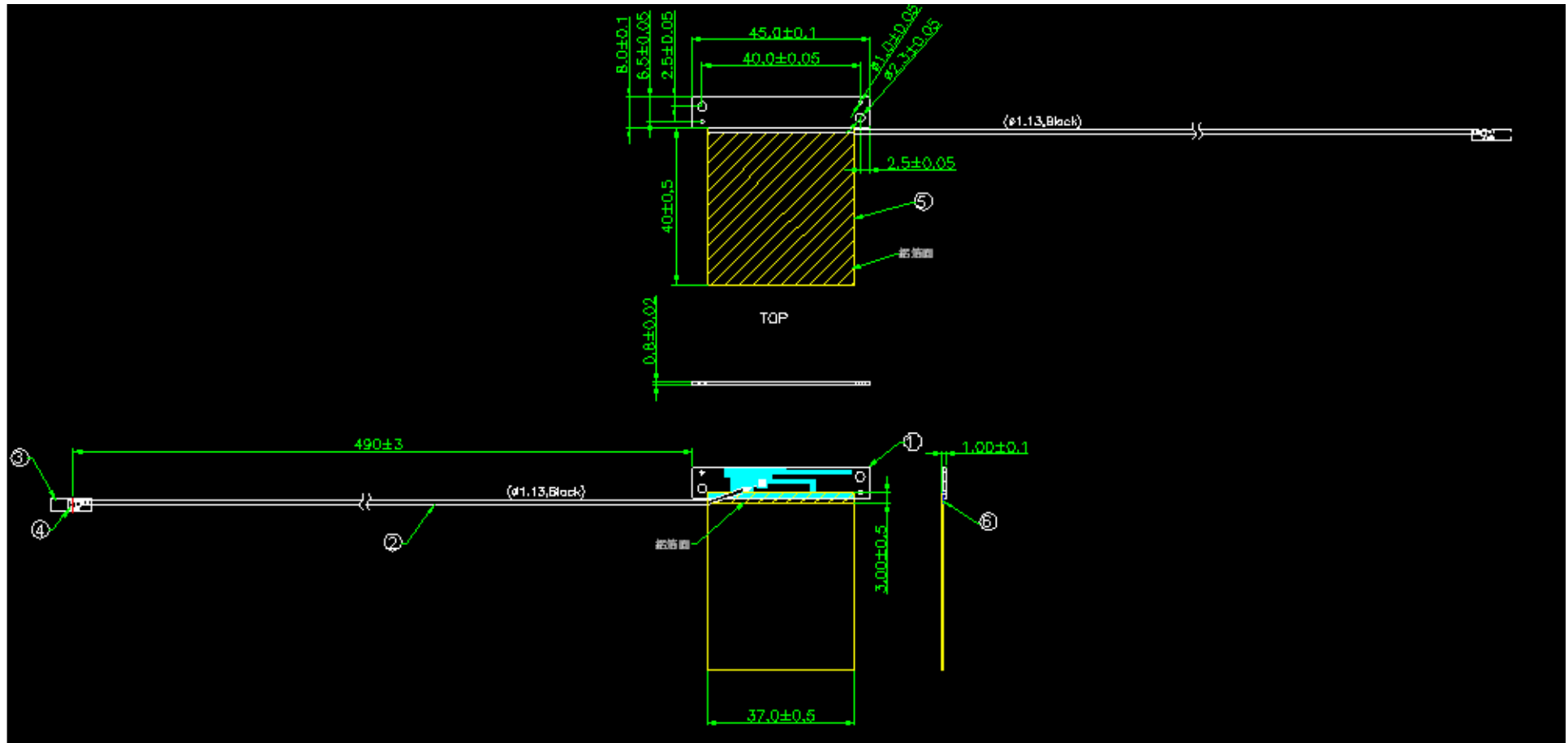
Annie Huang
Product Engineer

2008/5/28

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2. Outline Drawing



3. Antenna Photo

WLAN-R



4. Antenna Related Data

Frequency Range:

WLAN ANTENNA: 2400~2500MHz, 5150~5850MHz

Peak Gain: ≤ 3.0 dBi @ 2300~3800MHz, 5150~5850MHz

V.S.W.R: ≤ 2.85 @ 2300~3800 MHz
 ≤ 2.85 @ 5150~5850 MHz

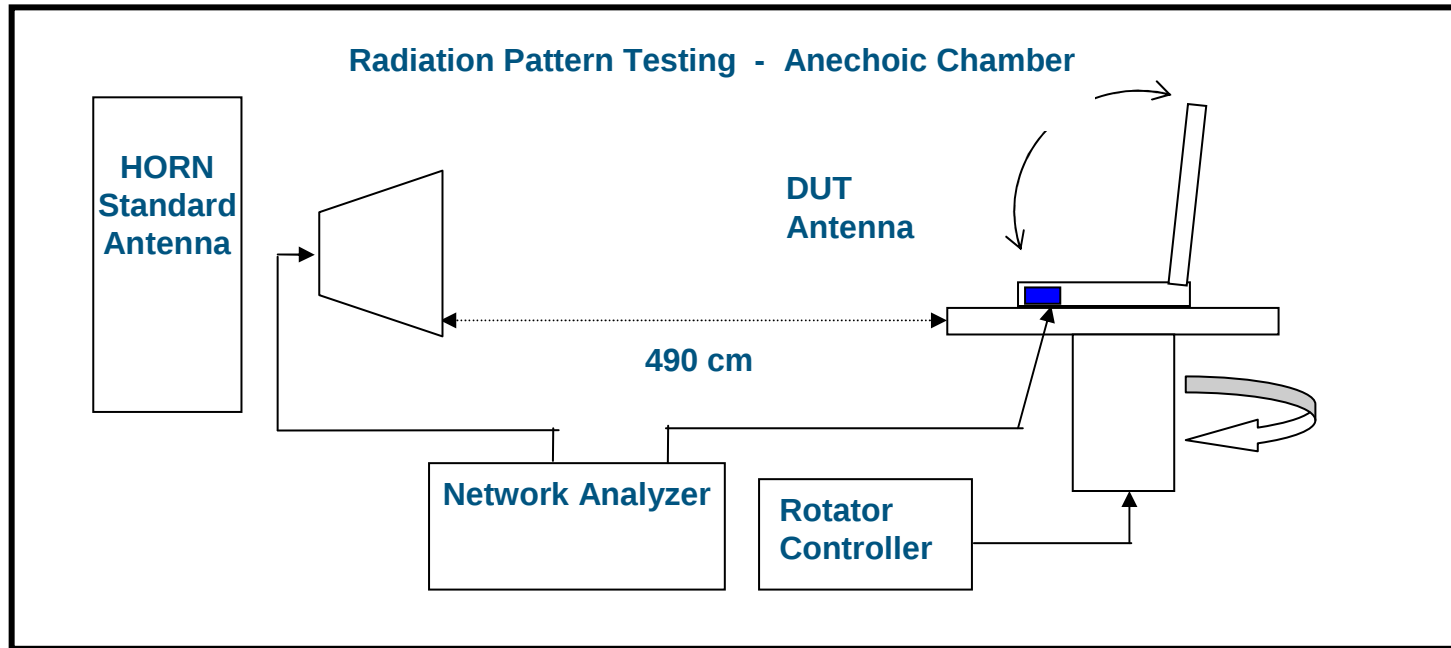
Average Gain: ≥ -5 dBi

Polarization: Linear

Impedance: 50Ω

5. Antenna Testing Conditions

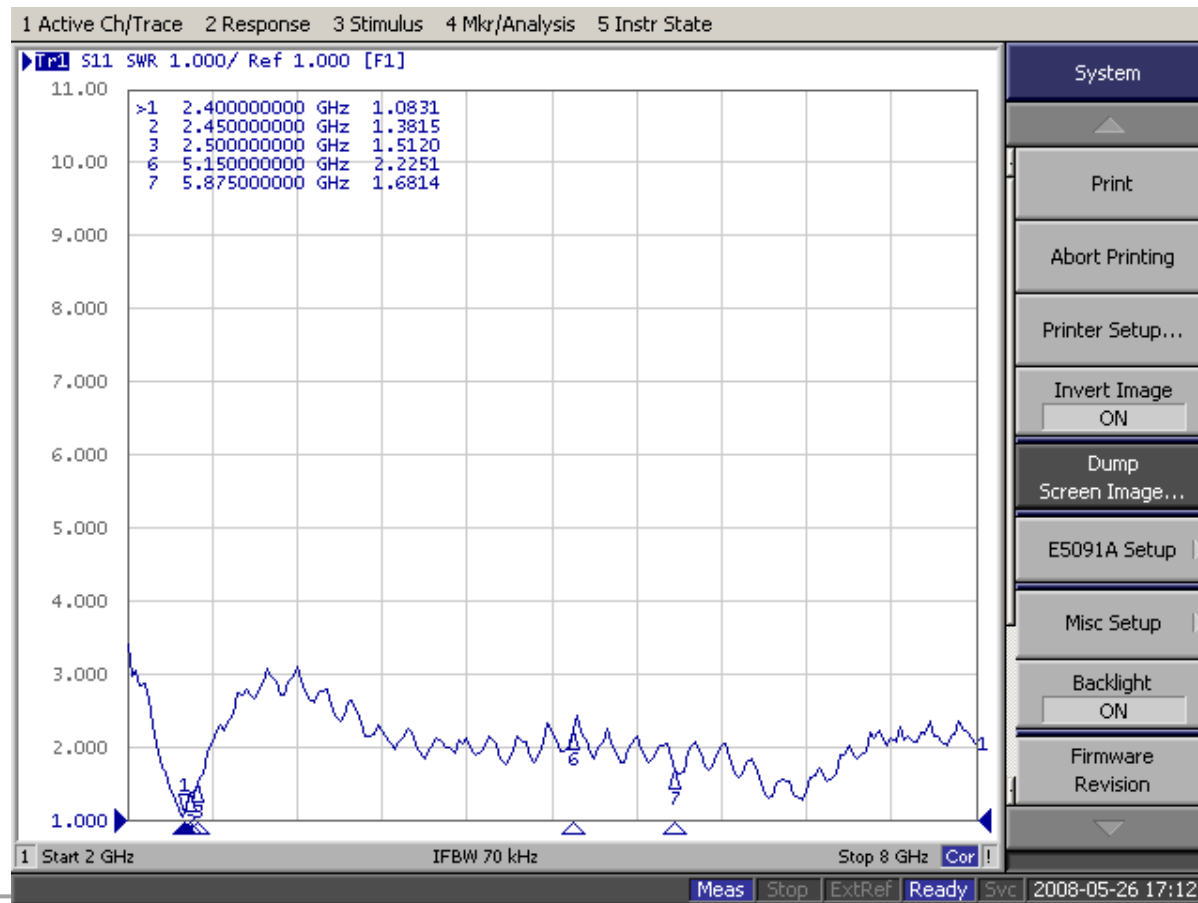
Test Configuration



(Testing by 2D anechoic chamber)

6. Test Result v.S.W.R

Frequency (GHz)	2.4	2.45	2.5	5.15	5.85
WLAN-R	1.08	1.38	1.51	2.21	1.68



Gain value (Testing by 2D anechoic chamber)

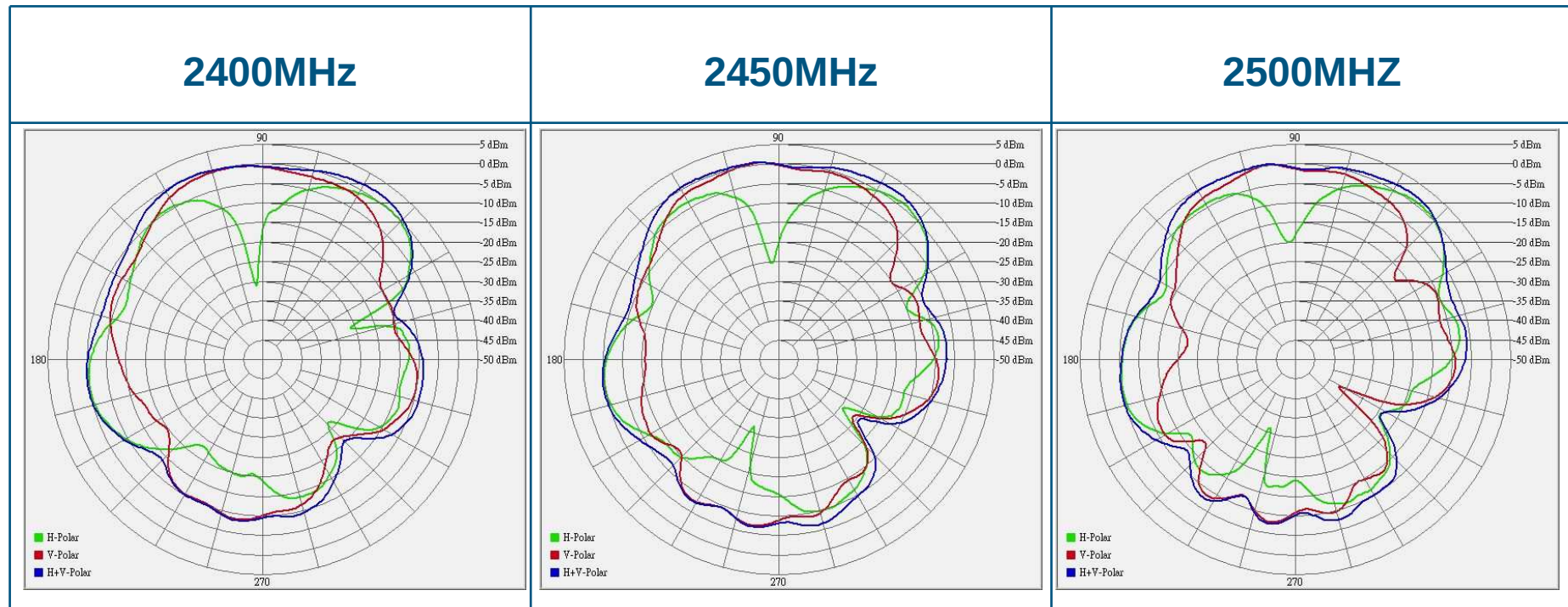
Gain List – WLAN /Black

Freq. (MHz)	WLAN/BT Antenna (Peak)			WLAN/BT Antenna (AVG.)		
	H	V	H + V	H	V	H + V
	dBi	dBi	dBi	dBi	dBi	dBi
2400	-1.35387	0.439718	1.0018	-4.95724	-4.59594	-1.76253
2450	-2.38377	0.286199	0.885322	-5.59287	-4.29945	-1.88789
2500	-2.95794	-0.70063	1.21797	-6.08678	-4.60027	-2.26993
5150	-1.07103	-1.2522	-0.52367	-7.6922	-6.43485	-4.00788
5250	-1.64067	-3.12774	-1.33988	-8.67443	-7.74472	-4.93455
5350	-1.19	-2.29339	-0.78202	-7.56155	-6.81549	-4.16222
5470	-3.04315	-3.72048	-2.7645	-8.55296	-8.36092	-4.44558
5725	-0.08659	-2.32839	0.167716	-7.3186	-7.15048	-4.22343
5750	-0.08673	-1.98529	0.213273	-7.37315	-7.34311	-4.34781
5825	-0.65361	-1.85542	0.111625	-7.77677	-8.13968	-4.94413
5850	-0.43342	-1.59744	0.503	-7.5035	-8.0532	-4.75936

Radiation Pattern (Testing by 2D anechoic chamber)

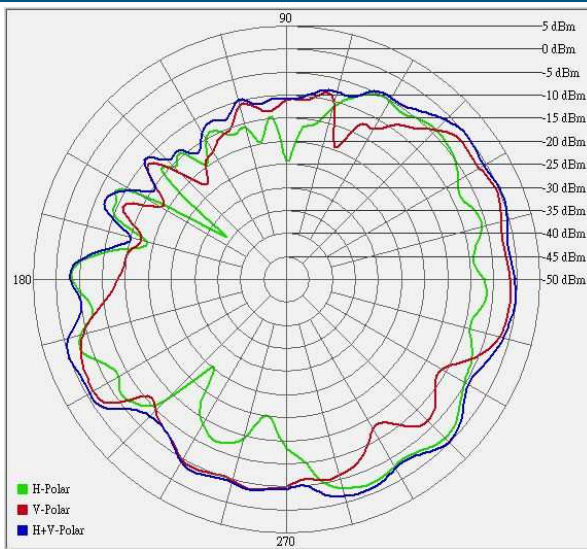
ANTENNA (WLAN – Black)

Radiation Pattern (2.4~2.5GHz)

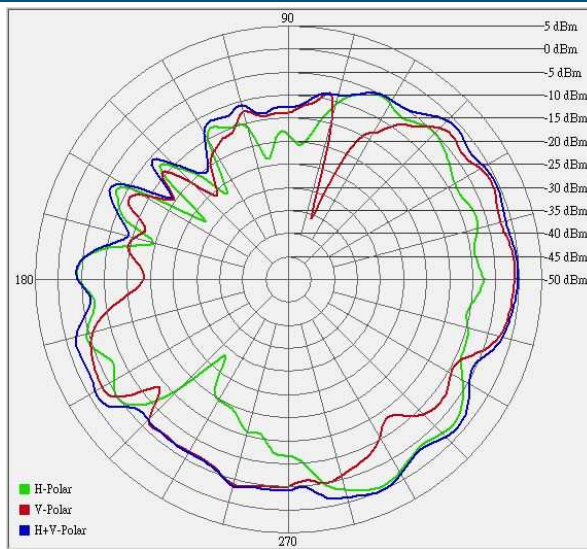


Radiation Pattern (5.15~5.35GHz)

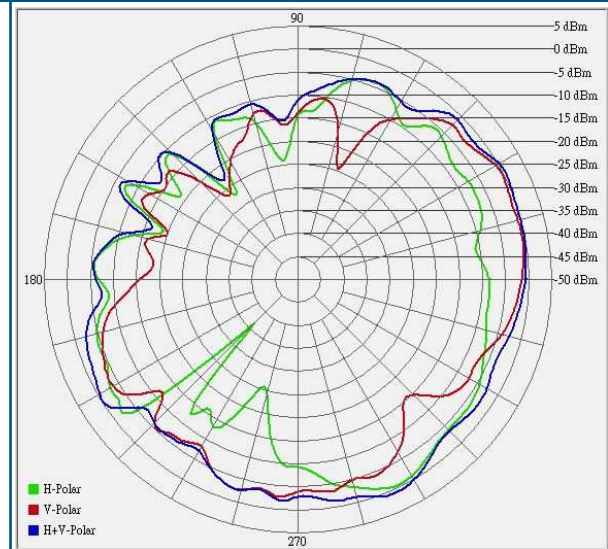
5150MHz



5250MHz

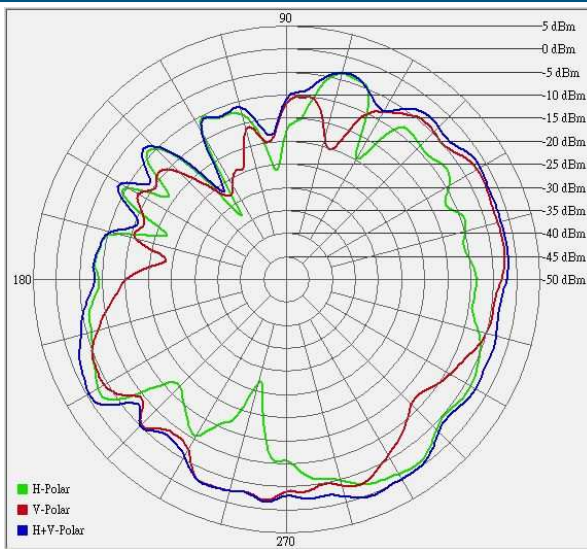


5350MHz

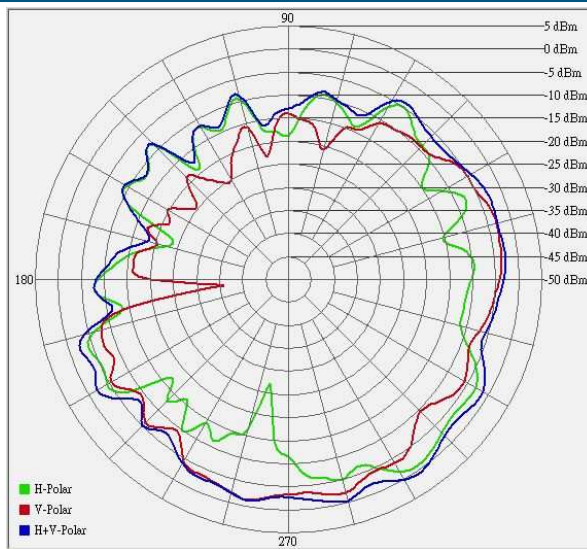


Radiation Pattern (5.47~5.75GHz)

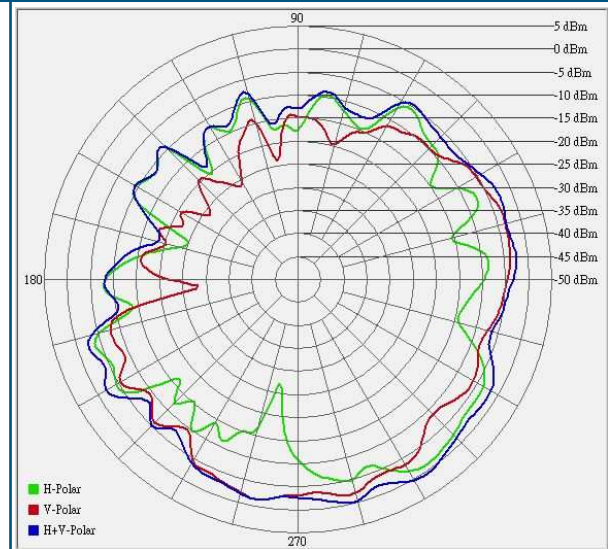
5470MHz



5725MHZ

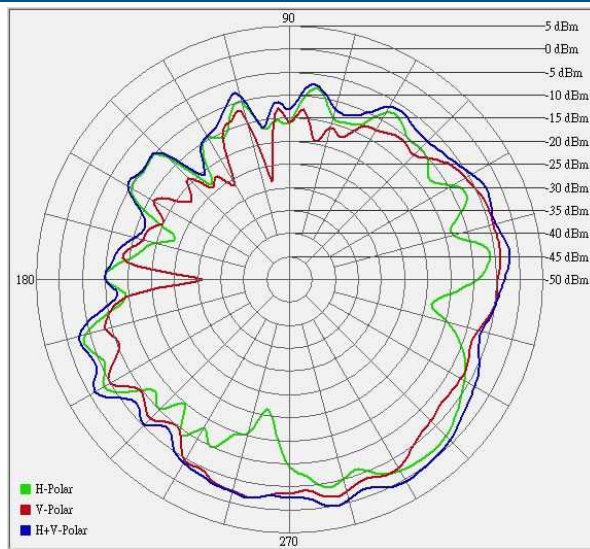


5750MHZ



Radiation Pattern (5.825~5.85GHz)

5825MHz



5850MHz

