



Well Green Technology Co., Ltd

**No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418**

E09E11

Antenna Test Report

RD Manager	Supervisor	RD engineer	Sales engineer
Joy	Johnson	Jim	Jerry



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Antenna Type

Position	Antenna
Antenna Type	PIFA
Material	Metal sheet

II VSWR

<u>VSWR</u>	<u>2G4 ISM</u> (2.400GHz-2.5GHz)		
	2.40	2.45	2.50
L	1.30	1.03	1.21

III Peak Gain

<u>Antenna Gain</u>		<u>2G4 ISM</u> (2.400GHz-2.5GHz)		
		2.40	2.45	2.50
L	Peak dBi	2.90	2.34	2.24
	Avg dBi	-2.81	-2.67	-2.38



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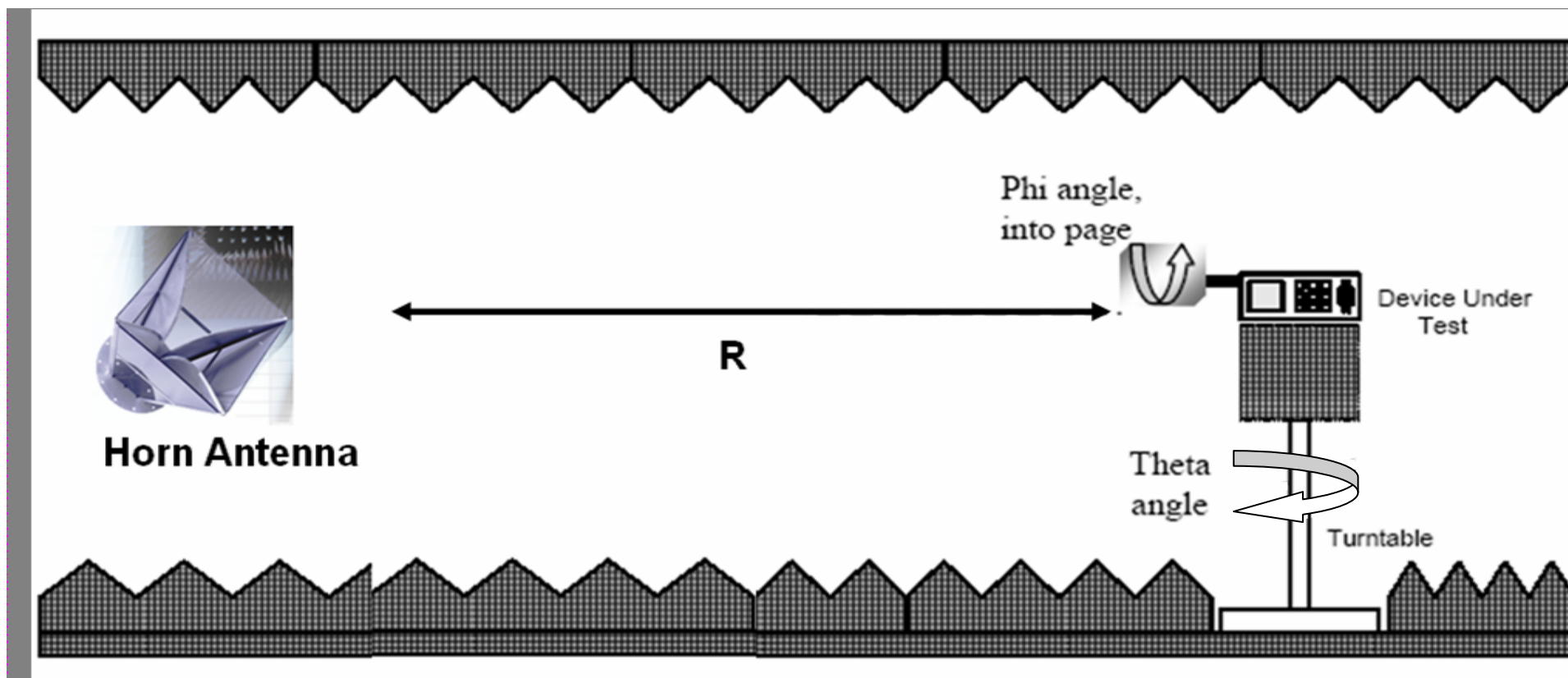
3. Smith Chart

4. Free Space Radiation Pattern



I 、Antenna Testing Conditions:

1. Testing set up:

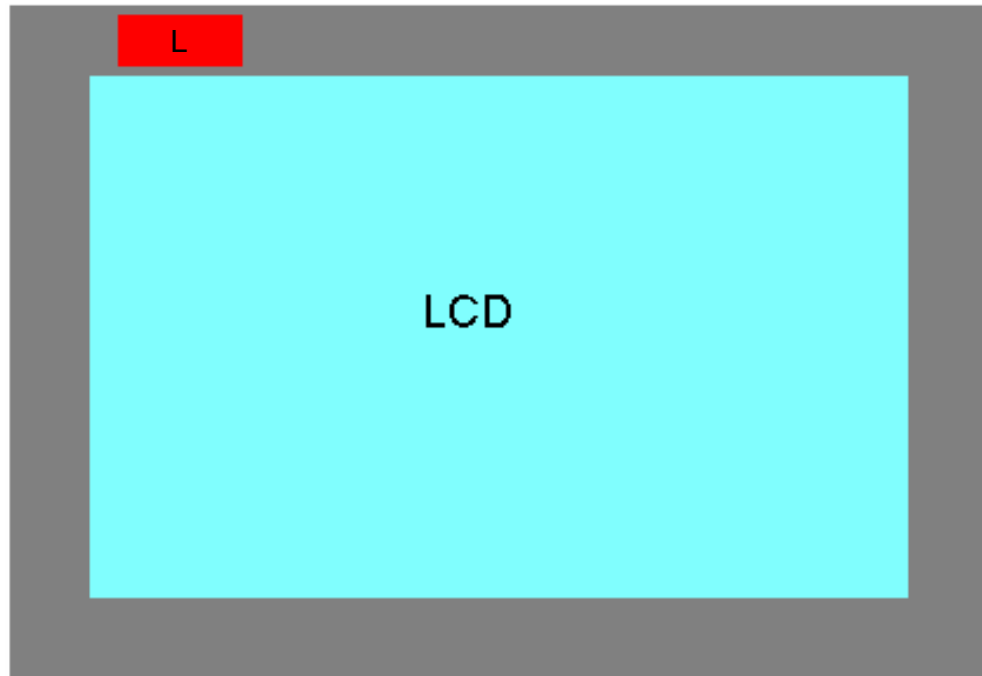




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2. Mechanical dimensions



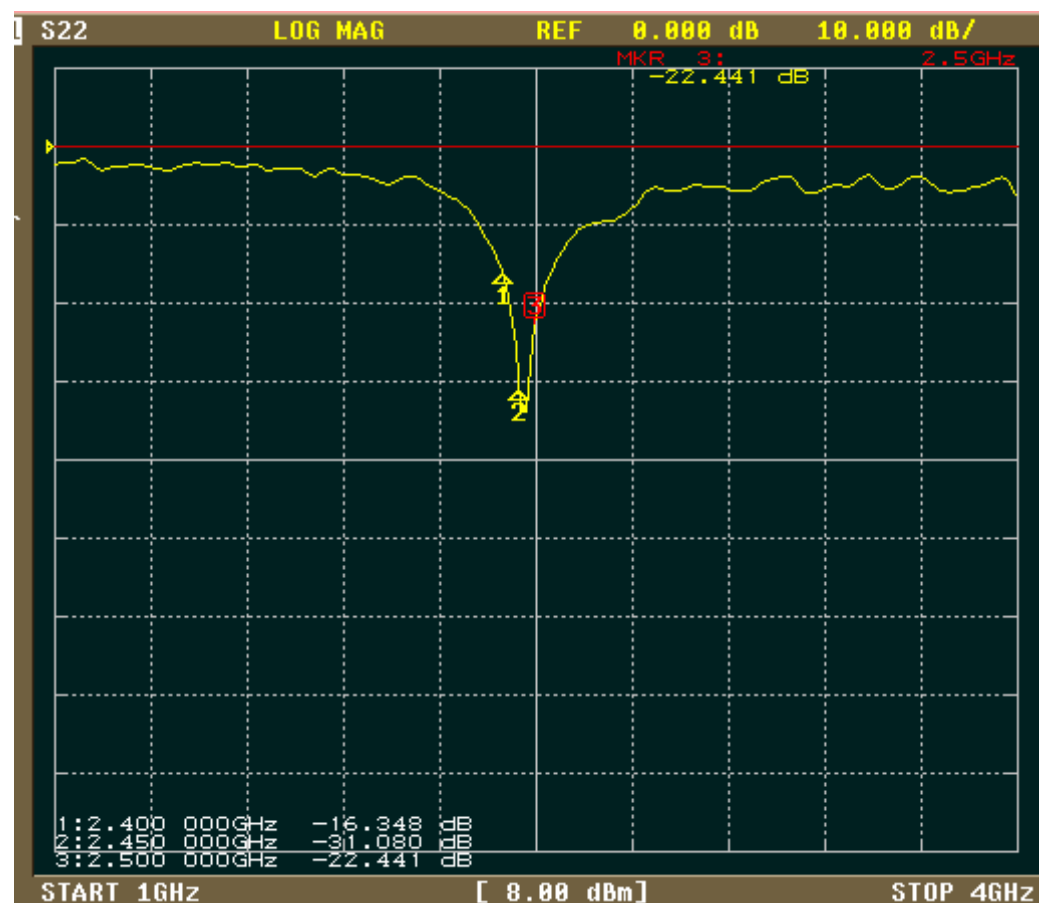


II. Test results

E09EI1	Wireless LAN	Left up	1.13
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1. 2.4-2.5GHz Return Loss

Antenna	Center freg. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
E09EI1	2450		-16.34	-31.08	-22.44





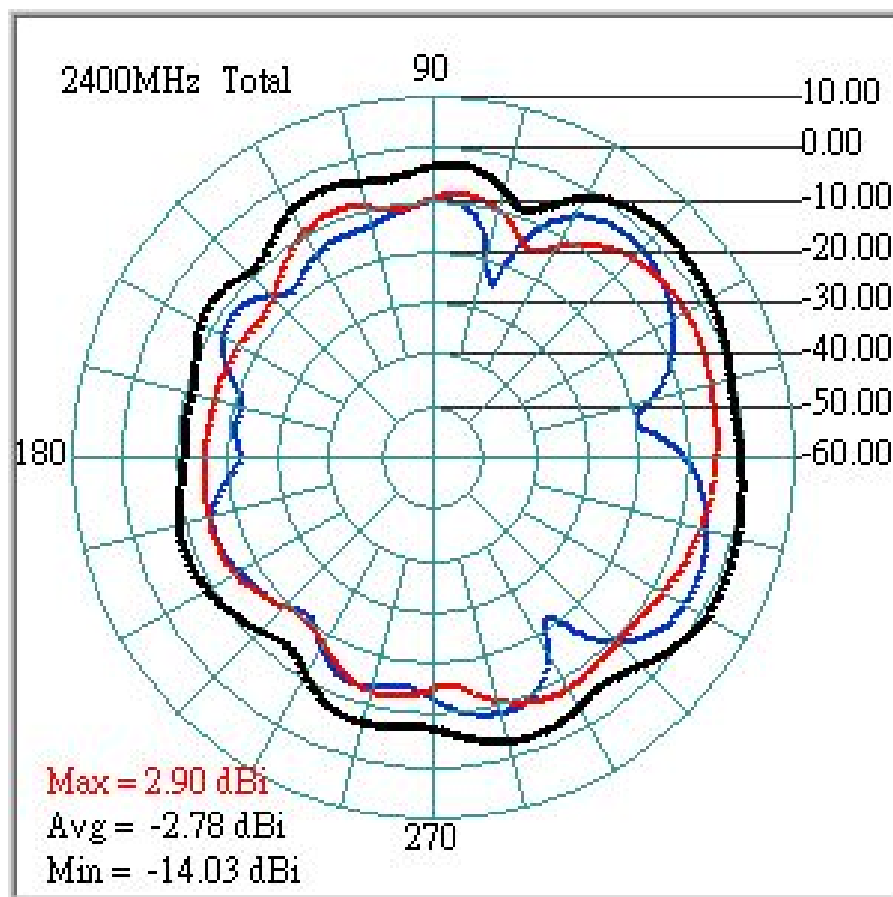
2. 2.4-2.5GHz VSWR

Antenna	Center freg. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
E09EI1	2450		1.30	1.03	1.21





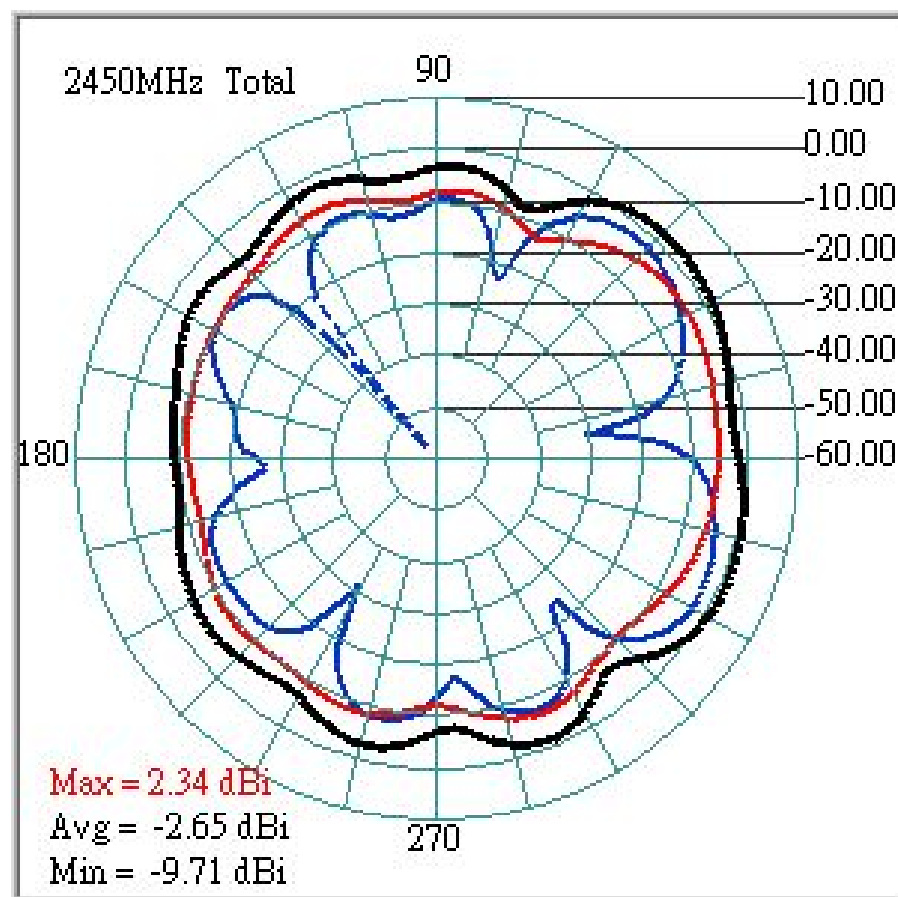
3. Radiation Pattern of XY Plane(Azimuth)-(Open) Radiation Pattern of **XY Plane(Azimuth)-(Open)**



Center Frequency	2400 MHz
Vertical peak Gain (dBi)	-2.53
Vertical Average Gain (dBi)	-9.53
Horizontal peak Gain (dBi)	-3.39
Horizontal Average Gain (dBi)	-9.12
Hori+Vert peak Gain (dBi)	2.90
Hori+Vert Average Gain (dBi)	-2.81



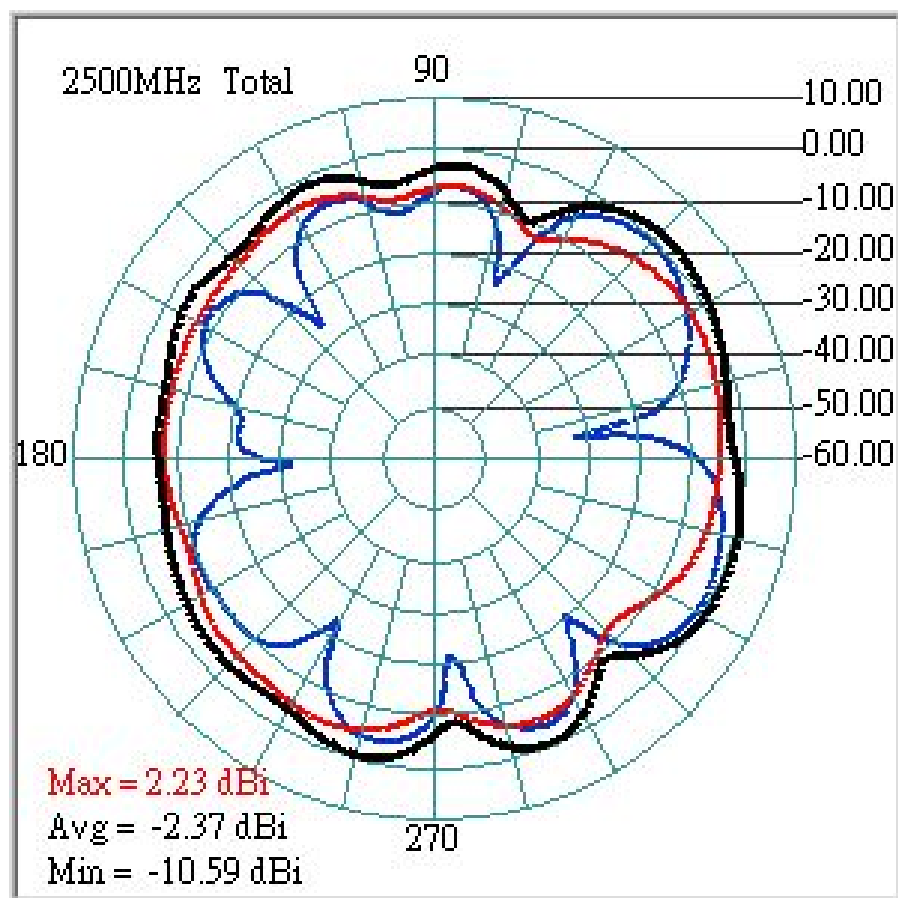
4. Radiation Pattern of XY Plane(Azimuth)-(Open)



Center Frequency	2450 MHz
Vertical peak Gain (dBi)	-2.18
Vertical Average Gain (dBi)	-8.76
Horizontal peak Gain (dBi)	-3.64
Horizontal Average Gain (dBi)	-8.03
Hori+Vert peak Gain (dBi)	2.34
Hori+Vert Average Gain (dBi)	-2.67



5. Radiation Pattern of XY Plane(Azimuth)-(Open)



Center Frequency	2500 MHz
Vertical peak Gain (dBi)	-0.43
Vertical Average Gain (dBi)	-6.74
Horizontal peak Gain (dBi)	-2.82
Horizontal Average Gain (dBi)	-6.44
Hori+Vert peak Gain (dBi)	2.24
Hori+Vert Average Gain (dBi)	-2.38