



Well Green Technology Co., Ltd

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PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418**

TWINHEAD E12

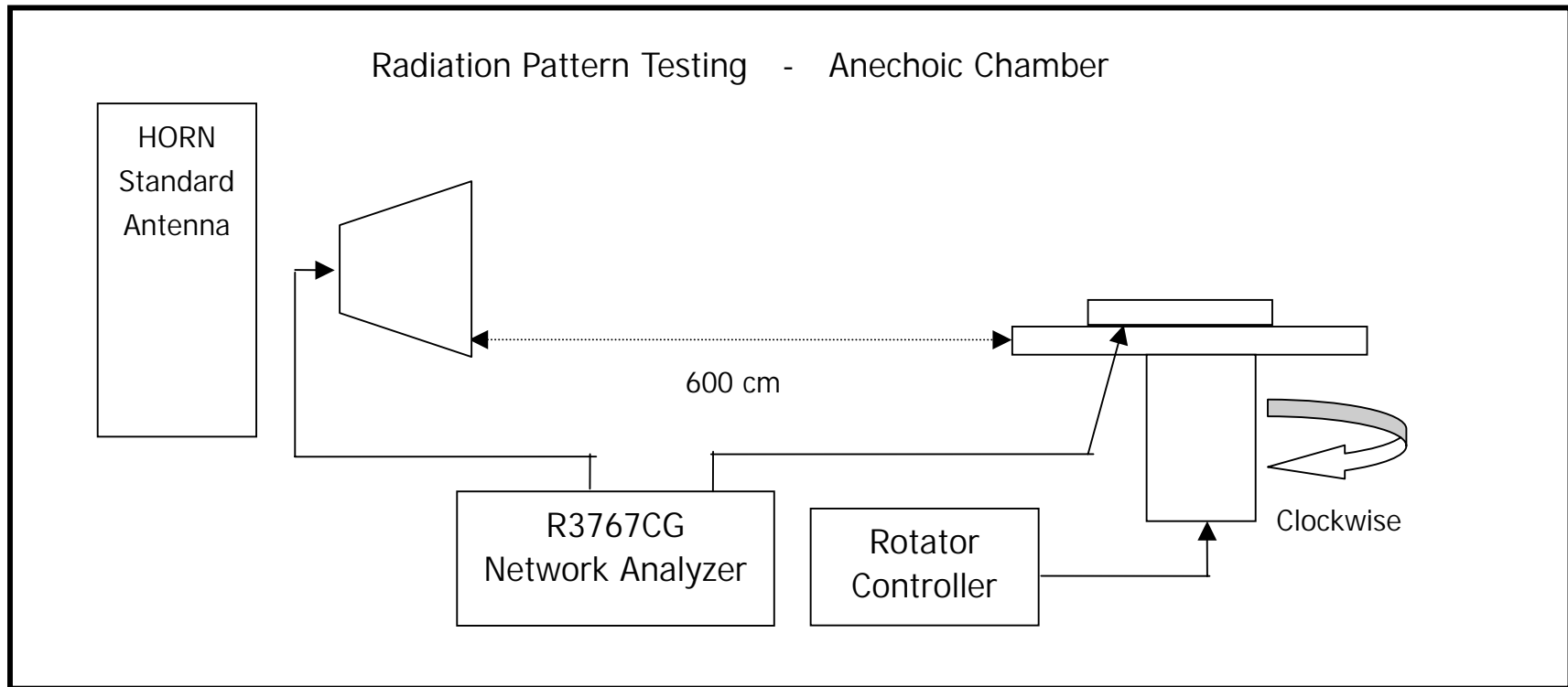
Antenna Test Report

RD Manager	Supervisor	RD engineer	Sales engineer
David	Johnson	Tim	Jerry



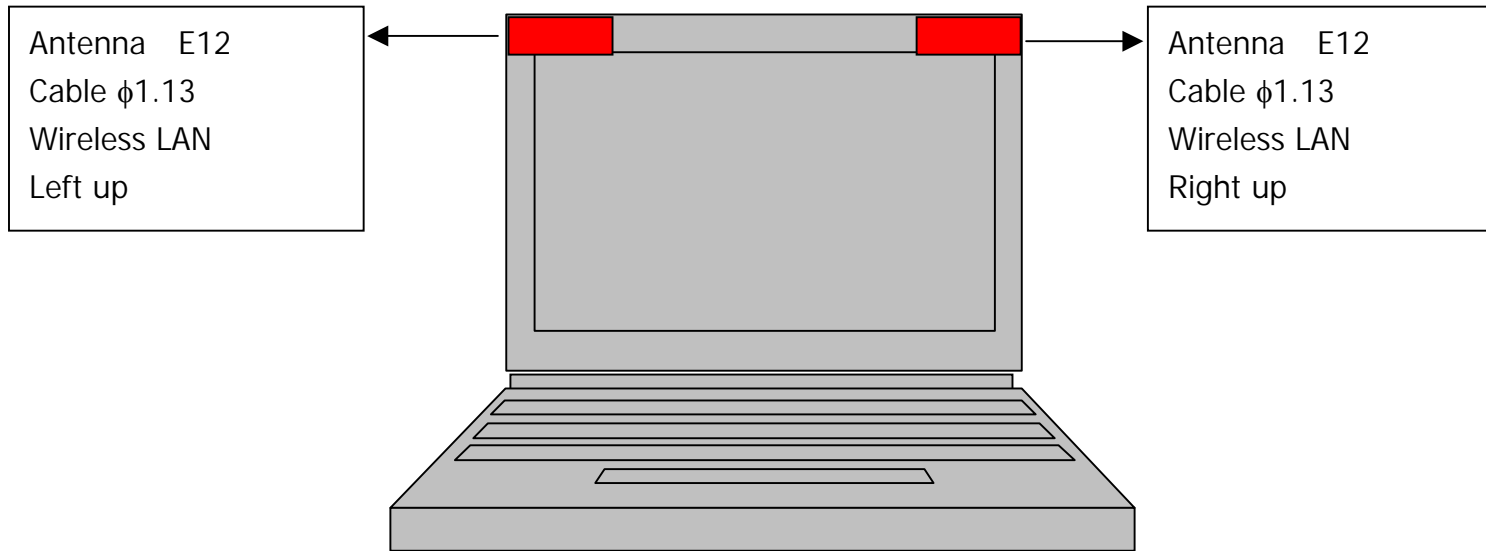
Antenna Testing Conditions:

1. Testing set up:





2. Mechanical dimensions



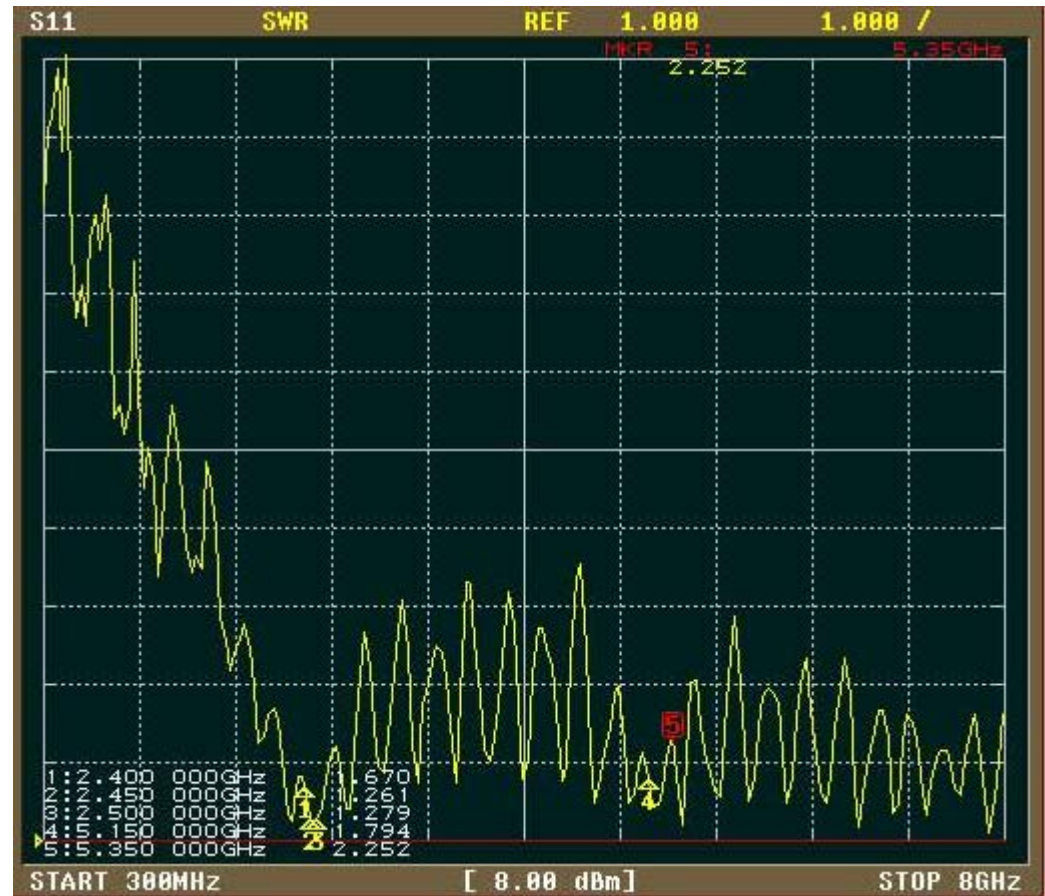


Test results-Left

Antenna	Application	Cable dia. Φ mm
E12	Wireless	1.13

1.VSWR

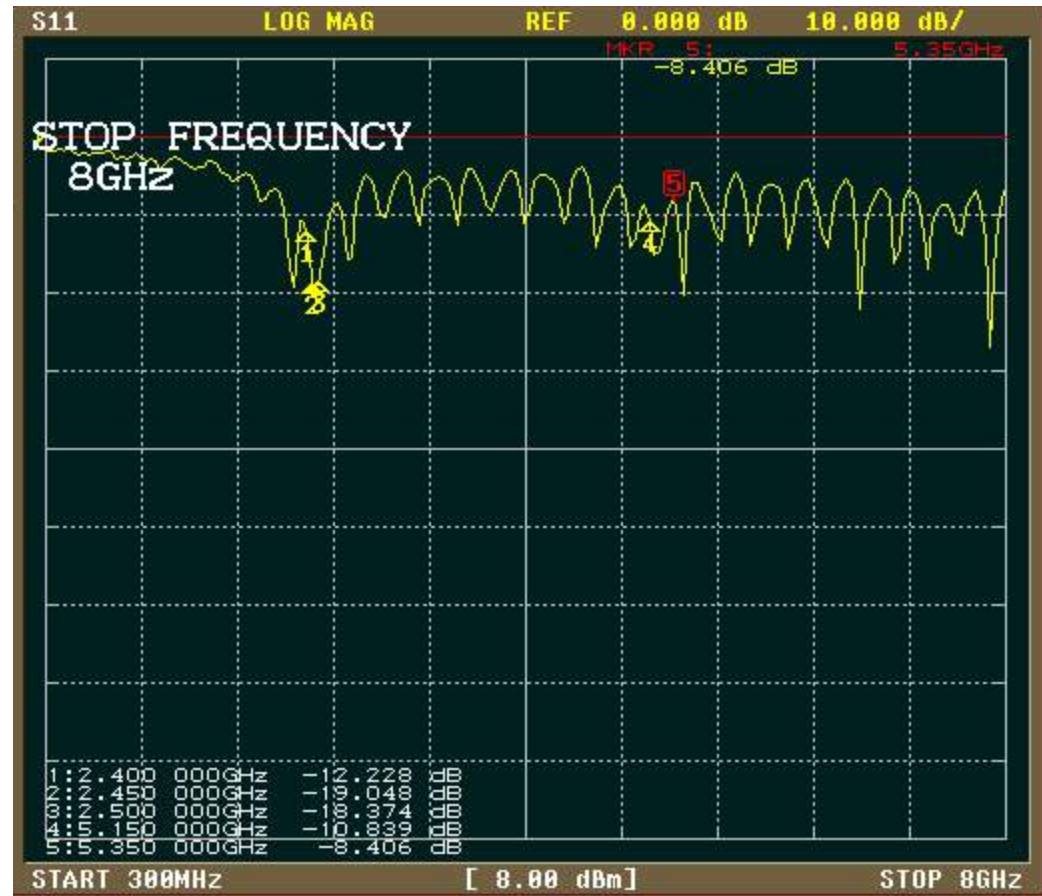
Antenna	Center freg. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
E12	2450		1.16	1.26	1.27





2. Return Loss

Antenna	Center freg. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
E12	2450		-12.22	-19.04	-18.37



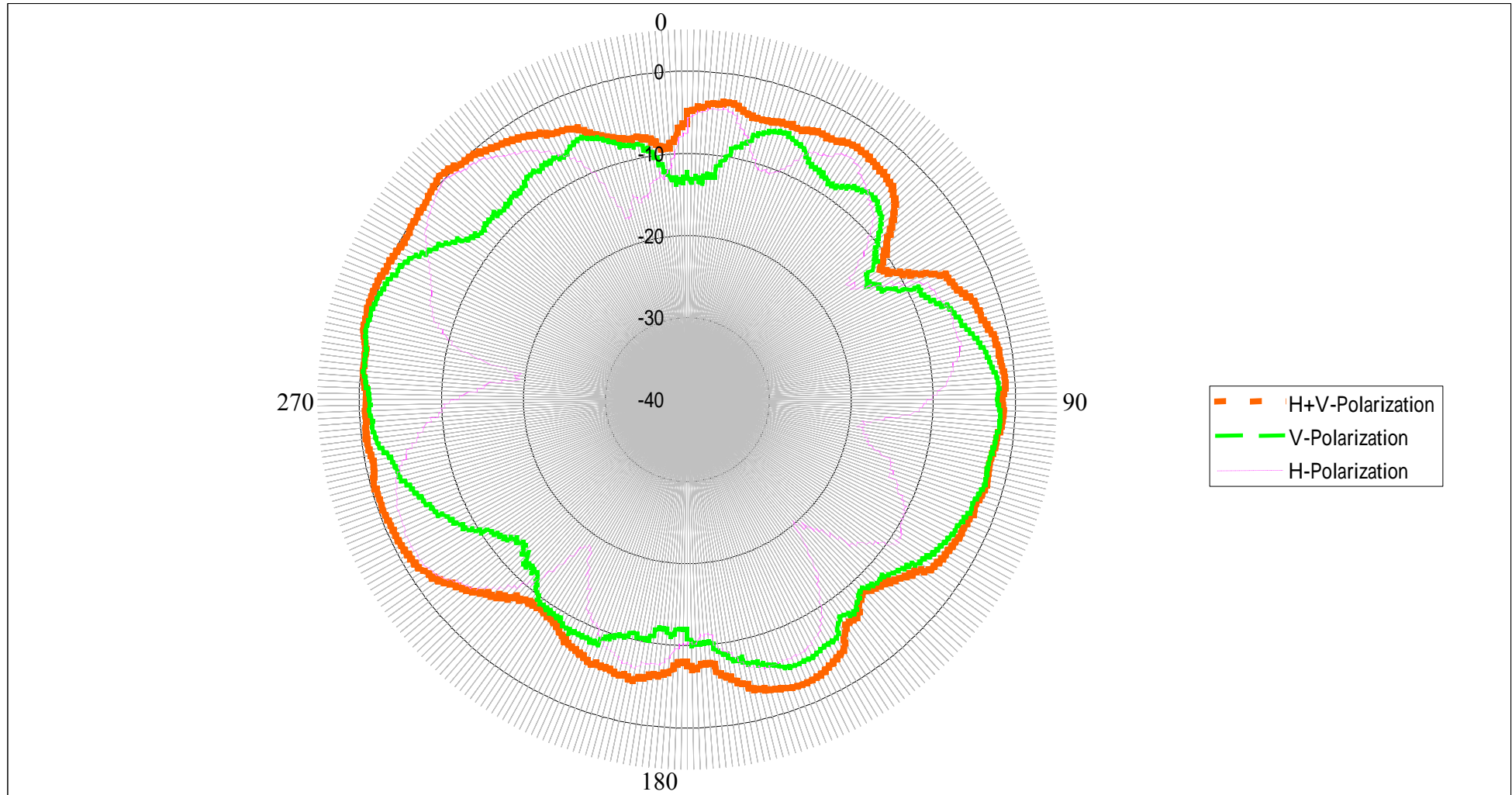


3. Smith Chart



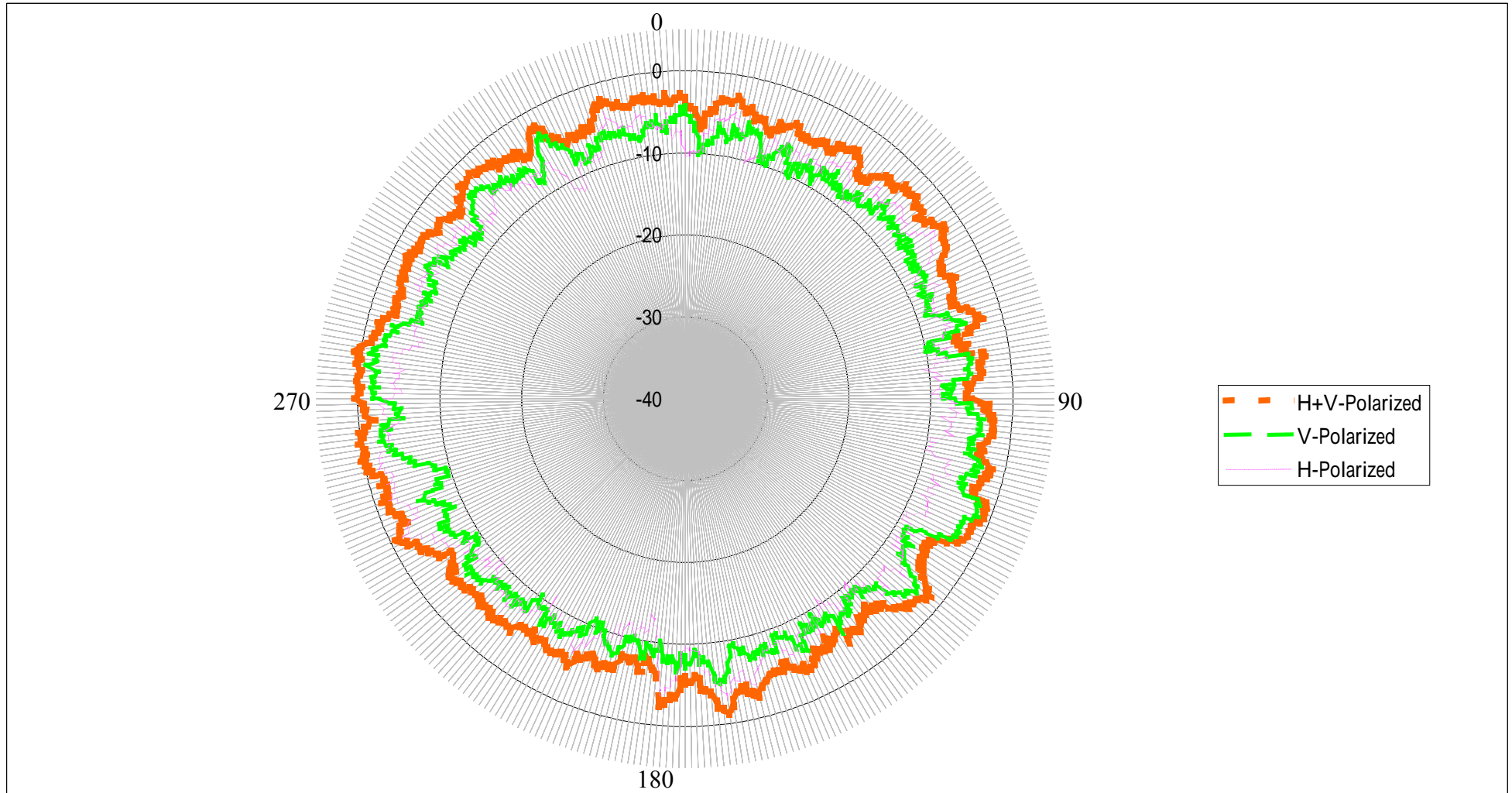


4. Radiation Pattern of XY Plane(Azimuth)-2.45GHz





5. Radiation Pattern of XY Plane(Azimuth)-5.25GHz





6. Peak Gain and Average Gain

Antenna	Gain of XY Plane(Azimuth)		
	Polariztion		2.45GHz-L
E12	V	Peak	0.13
		Average	-5.42
	H	Peak	-0.12
		Average	-6.70
	H+V	Peak	0.60
		Average	-3.00

Antenna	Gain of XY Plane(Azimuth)		
	Polariztion		5.25GHz-L
E12	V	Peak	-0.73
		Average	-6.24
	H	Peak	-1.52
		Average	-6.52
	H+V	Peak	0.83
		Average	-3.37



7.VSWR -Right

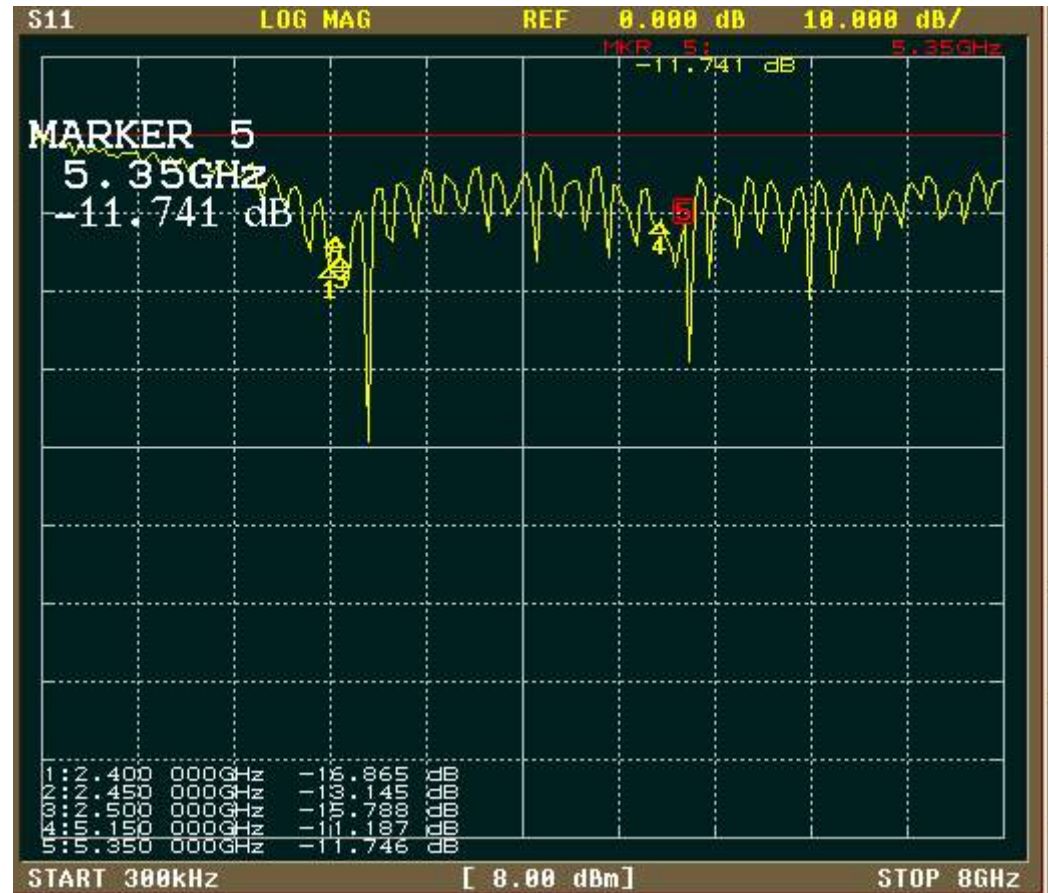
Antenna	Center freg. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
E12	2450		1.32	1.56	1.40





8. Return Loss

Antenna	Center freg. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
E12	2450		-16.86	-13.14	-15.78



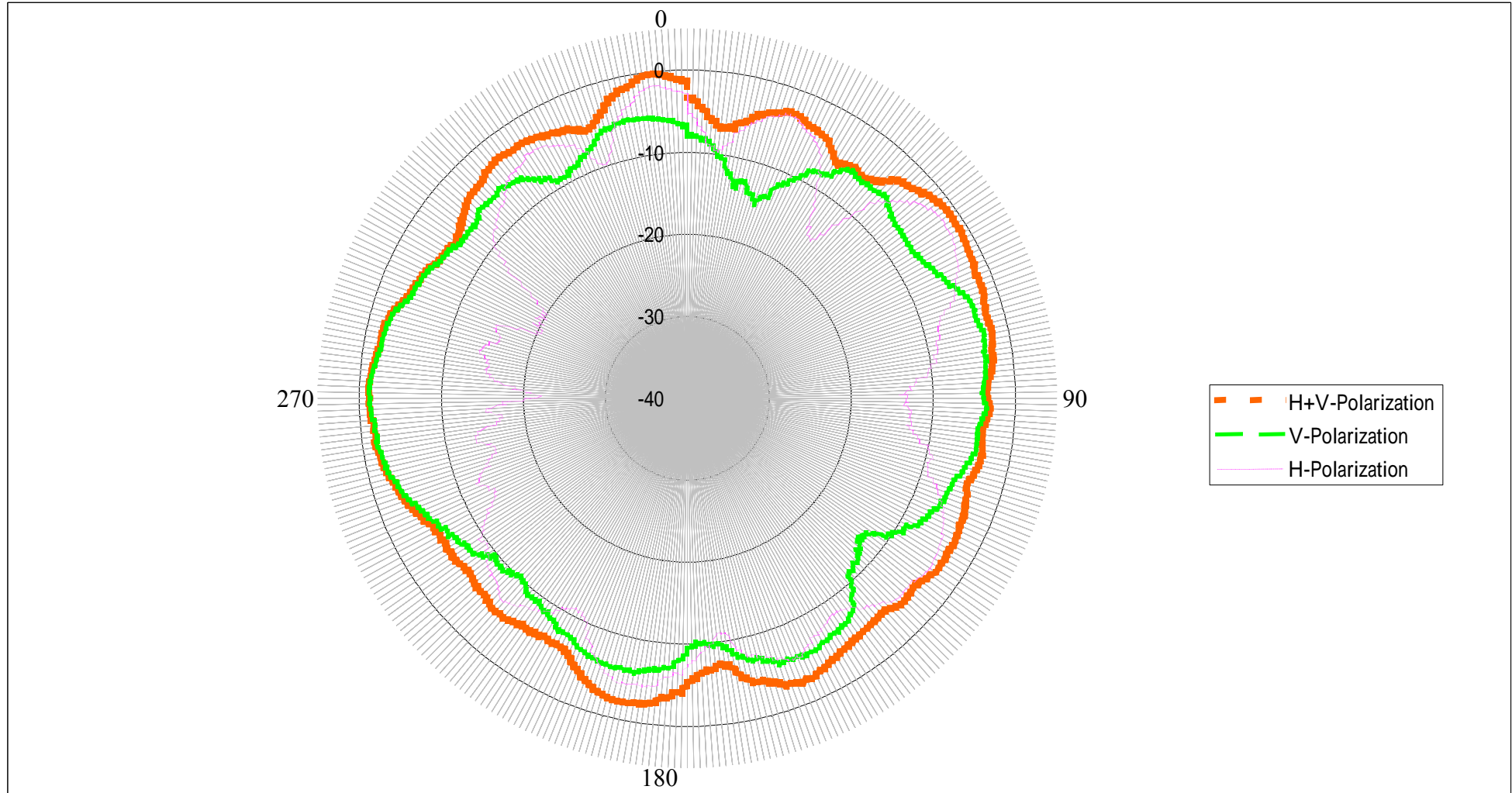


9. Smith Chart





10. Radiation Pattern of XY Plane(Azimuth)-2.45GHz

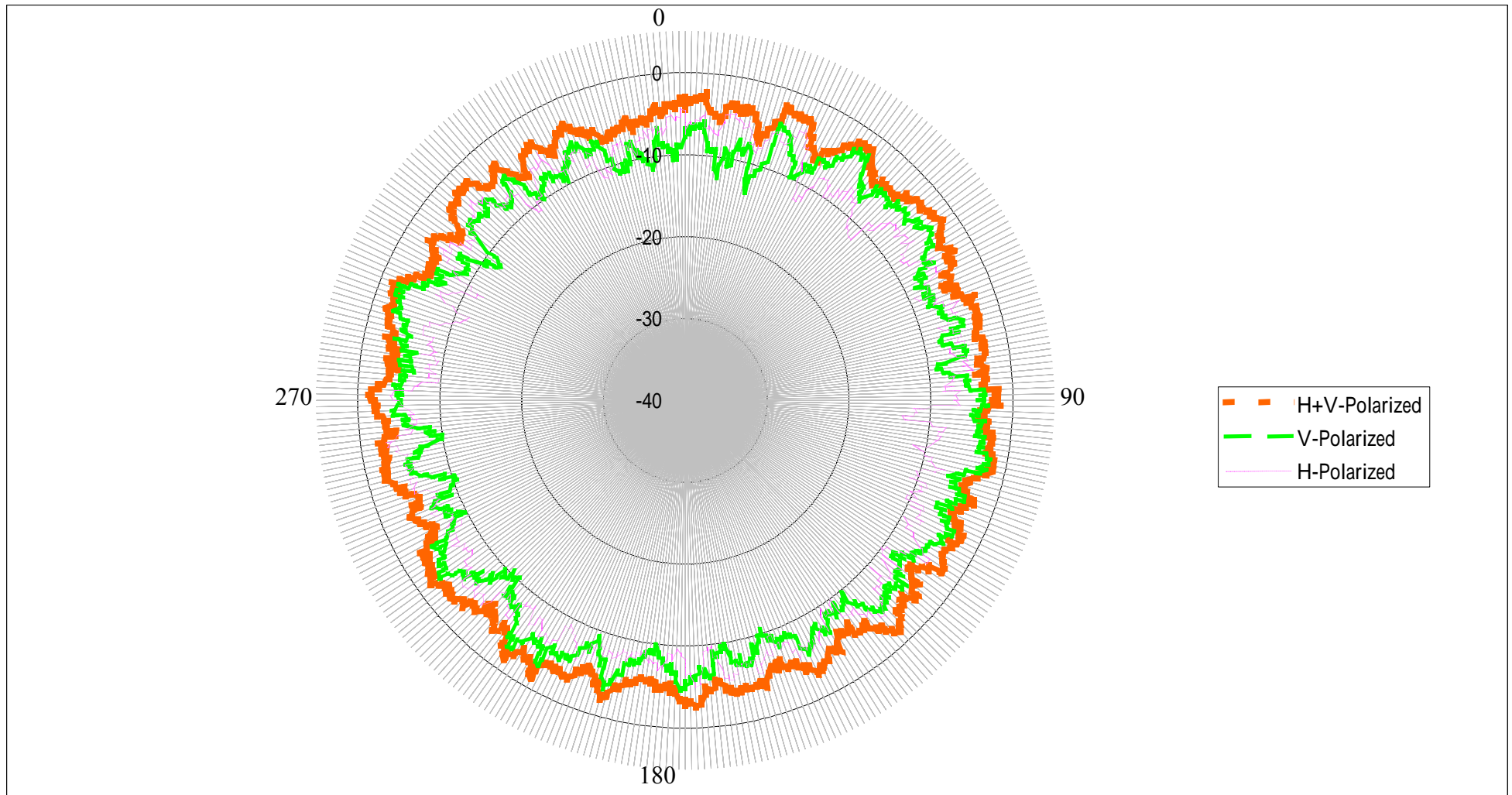




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11. Radiation Pattern of XY Plane(Azimuth)-5.25GHz





12. Peak Gain and Average Gain

Antenna	Gain of XY Plane(Azimuth)		
	Polariztion		2.45GHz-R
E12	V	Peak	-1.17
		Average	-5.84
	H	Peak	-1.62
		Average	-7.00
	H+V	Peak	-0.19
		Average	-3.37

Antenna	Gain of XY Plane(Azimuth)		
	Polariztion		5.25GHz-R
E12	V	Peak	-2.01
		Average	-6.27
	H	Peak	-3.08
		Average	-7.13
	H+V	Peak	-1.22
		Average	-3.67