

TEST REPORT

Name of the sample: WH-8399_BLE Hook-Shaped Antenna

Model/Type: WH-8399_BLE

Applicant: Wuxi Weida Intelligent Electronics Co.,Ltd.

Test engineer: Mark

Specifications

Summary

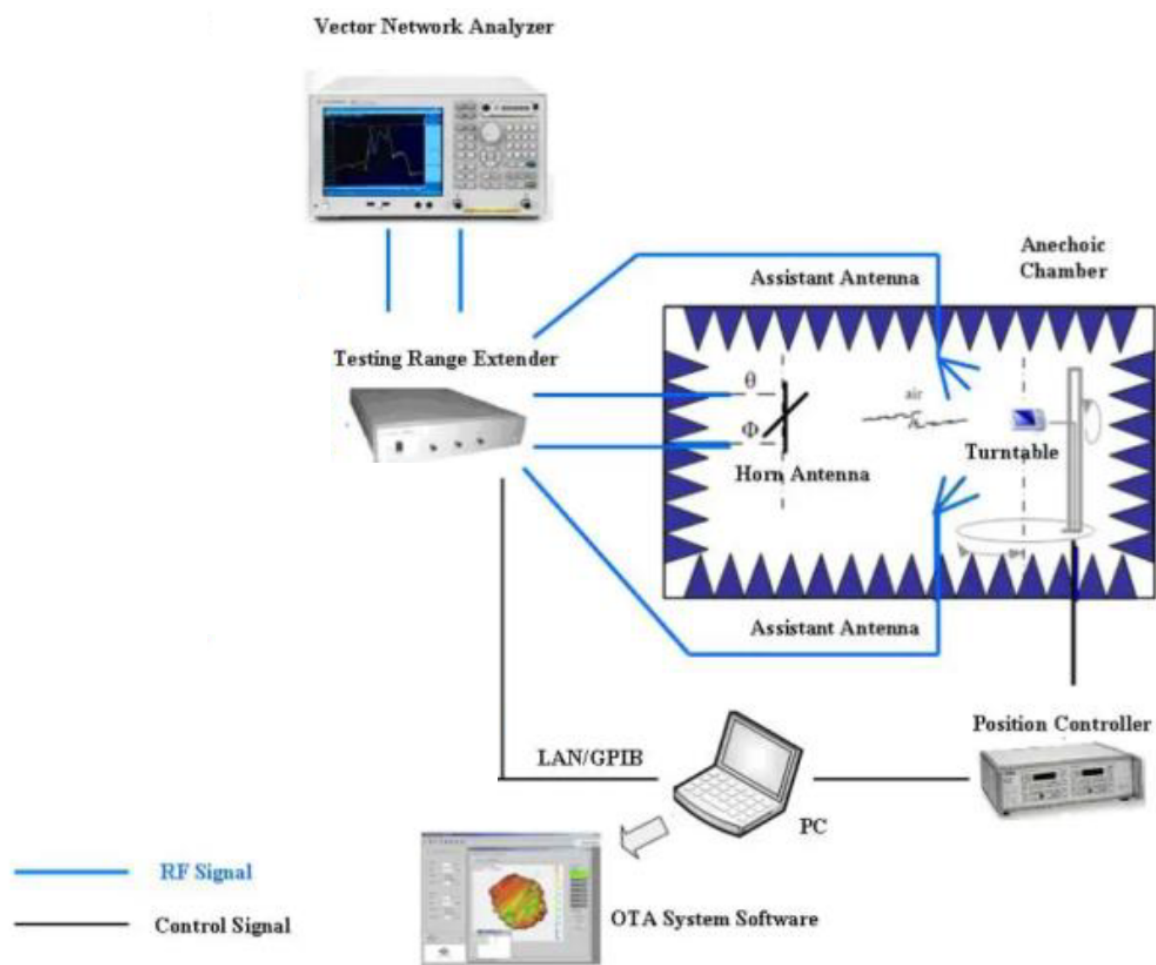
ITEM	SPEC.	
Model Name	ISM 2.4 GHz	
Center Frequency	2400 MHz 2450 MHz 2500 MHz	1.92 dBi 1.58 dBi 0.49 dBi
MAX. GAIN	1.92 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 Ω	
Antenna Length	10.35 mm	

Antenna Photo & Length

Test procedure

Name	Parameter	Method	Standard no.
Mobile communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

Test method



1. List of Test Instrument

No.	Instrument	Manufacturer	Model No.	S/N	Version	Calibration Cycle
1	Network Analyzer	R&S	ZVB8	101348	4.31.7.2	2025/04/03~2026/04/02
2	Antenna Measurement System (OTA Test System)	EM-Testing	EMT68FF	EMT68FF-ZZ001	/	2024/11/09~2027/11/08
3	Antenna Measurement System (OTA) Shielding	EM-Testing	EMT68FF	EMT68FF-ZZ001	/	2025/10/22~2026/10/21
4	EMT-AMS Antenna Measurement System Software	/	/	/	V2.0.1	/

2. Photos

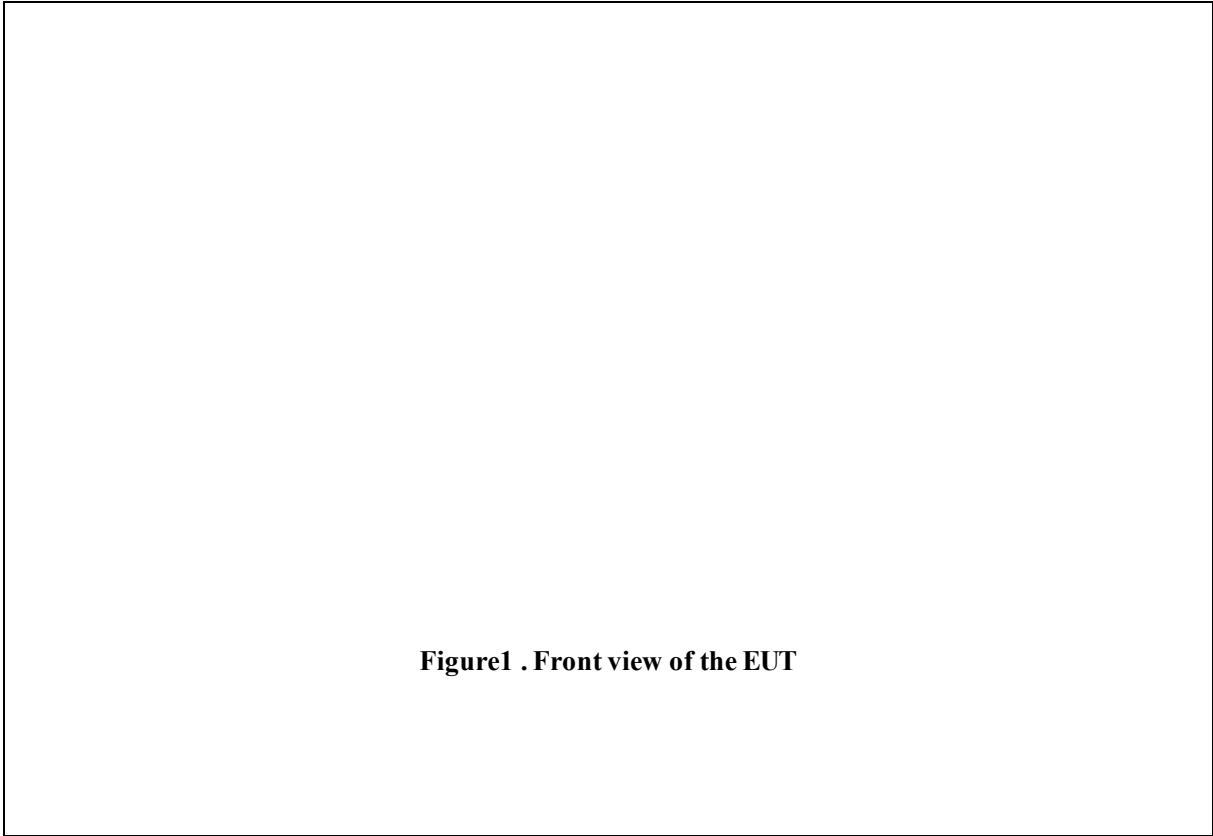
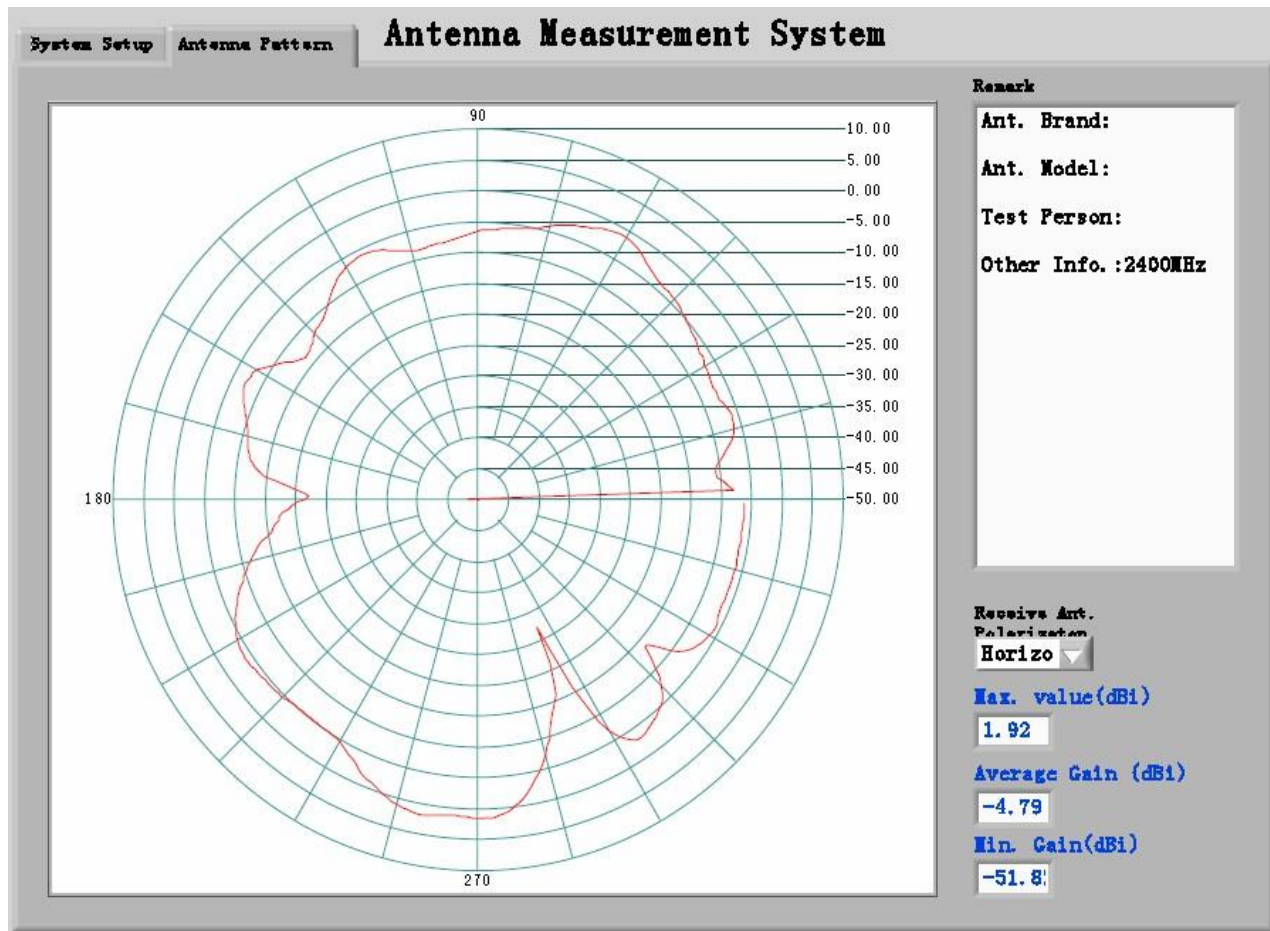


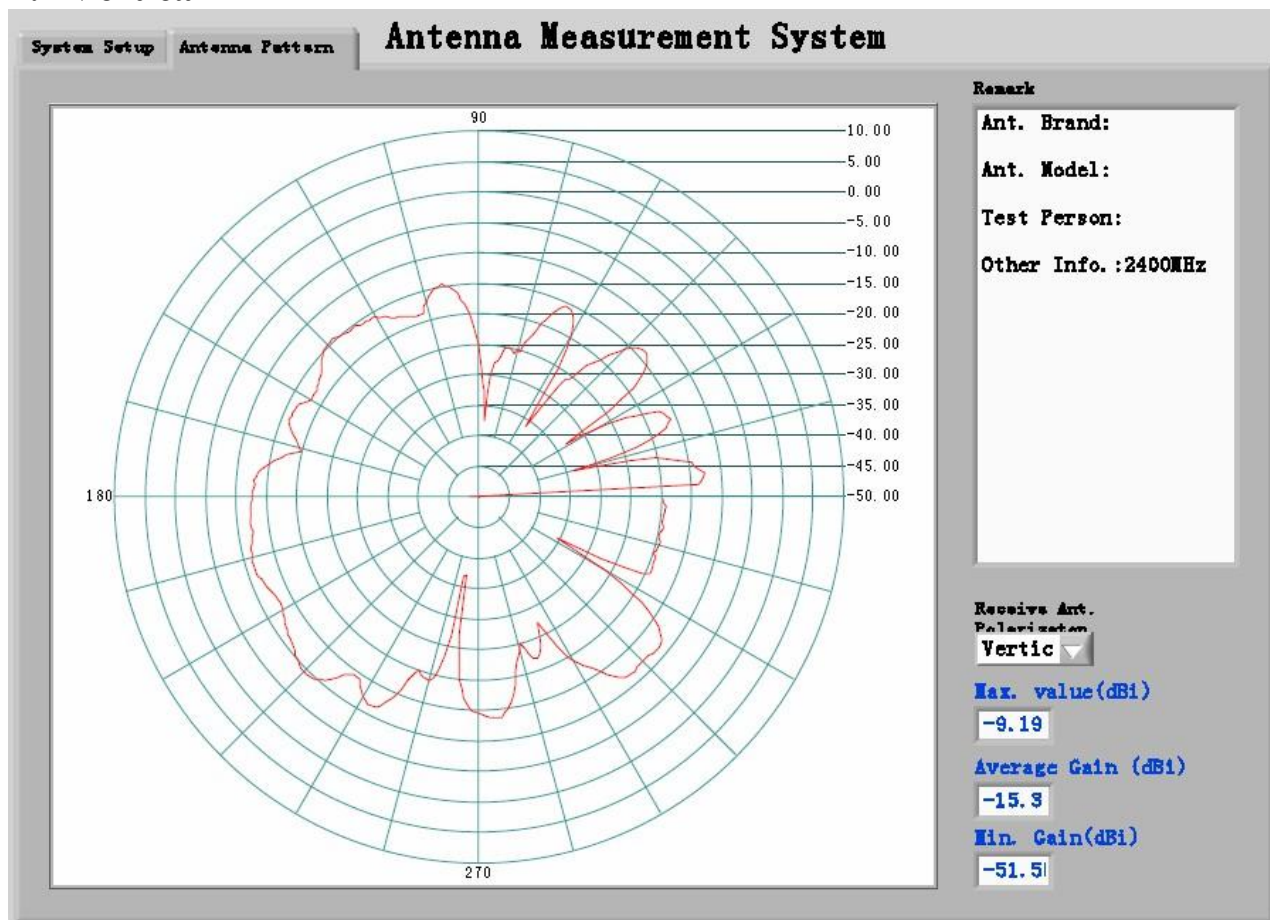
Figure 2. Photo of Sample Testing Environment

Main antenna : 2400 MHz

1.1 Horizontal

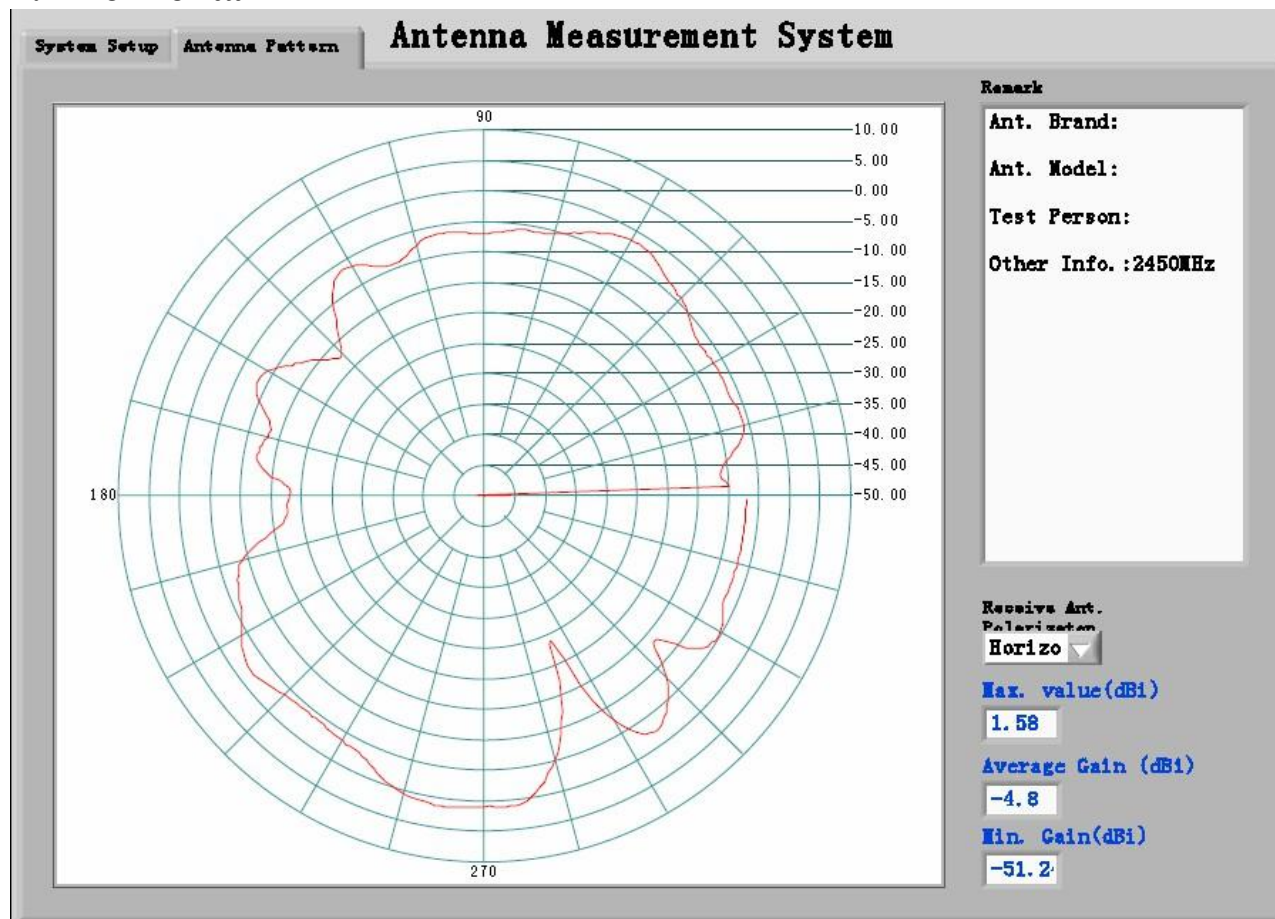


1.2 Vertical

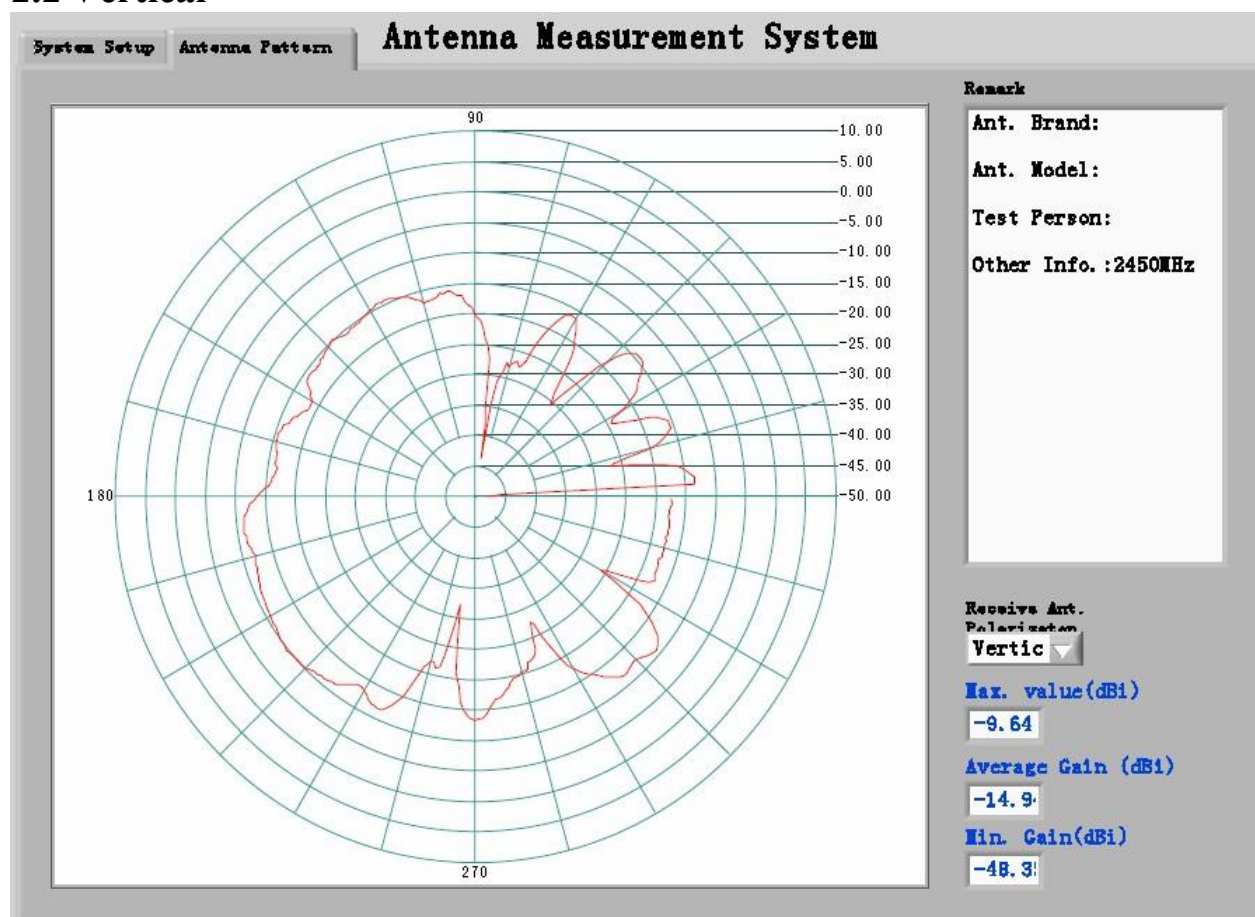


2. Main antenna : 2450 MHz

2.1 Horizontal

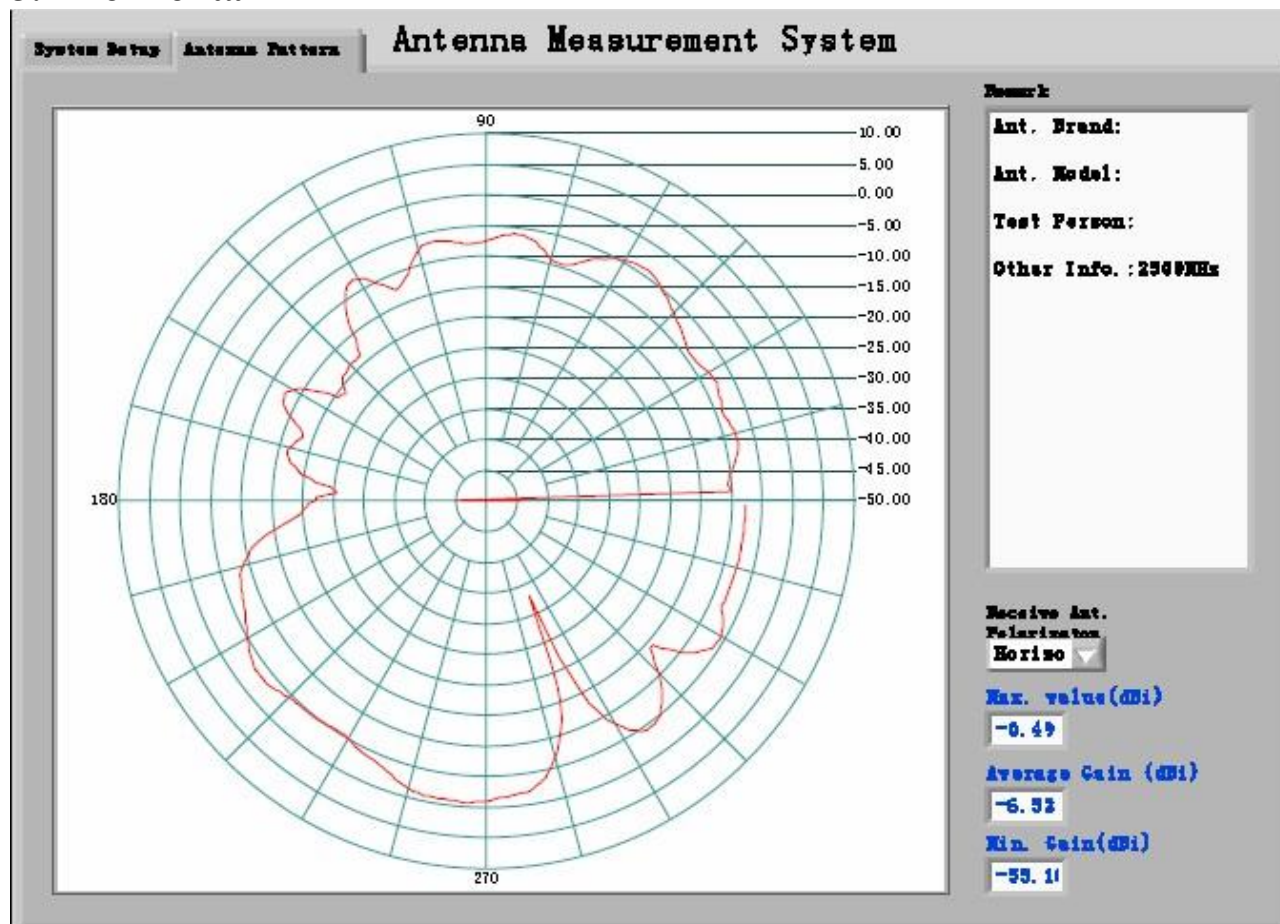


2.2 Vertical

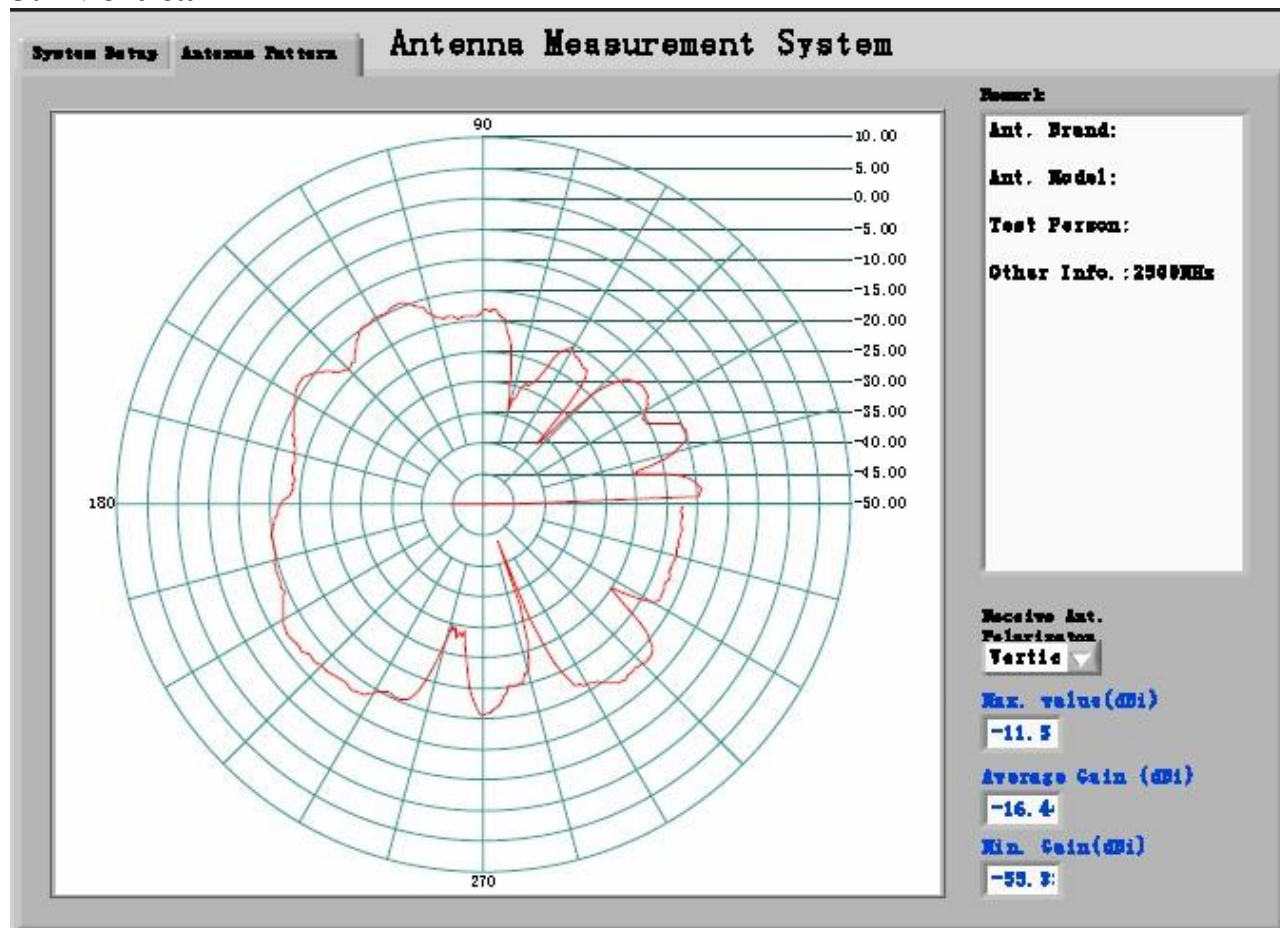


3. Main antenna : 2500 MHz

3.1 Horizontal



3.2 Vertical



4. Result

Center Frequency		Maximum Ant Gain
2400 MHz	H	1.92 dBi
	V	-9.19 dBi
2450 MHz	H	1.58 dBi
	V	-9.64 dBi
2500 MHz	H	0.49 dBi
	V	-11.5 dBi