

Dual band 2.4/5GHz rubber duck antenna with RP-SMA (reverse polarity male) connector Part #: WAND2DBI-SMA

1. ELECTRICAL SPECIFICATION

- Frequency Range: 2.4~2.5GHz & 4.9~5.825GHz
- V.S.W.R: ≤ 2.0
- Impedance: 50ohm nominal
- Normal Gain: 2.4~2.5GHz: 2dBi; 4.9~5.825GHz: 3dBi
- Radiation: Omni
- Polarization: Vertical
- Electrical Wave: 1/4
- Connector: SMA Male RP
- OEM/ODM Spec is welcome!

2. MECHANICAL SPECIFICATION

- Antenna Cover: PU
- Color: Black
- Operation Temperature: -20 ~ +60 degree
- Storage Temperature : -30 ~ +75 degree

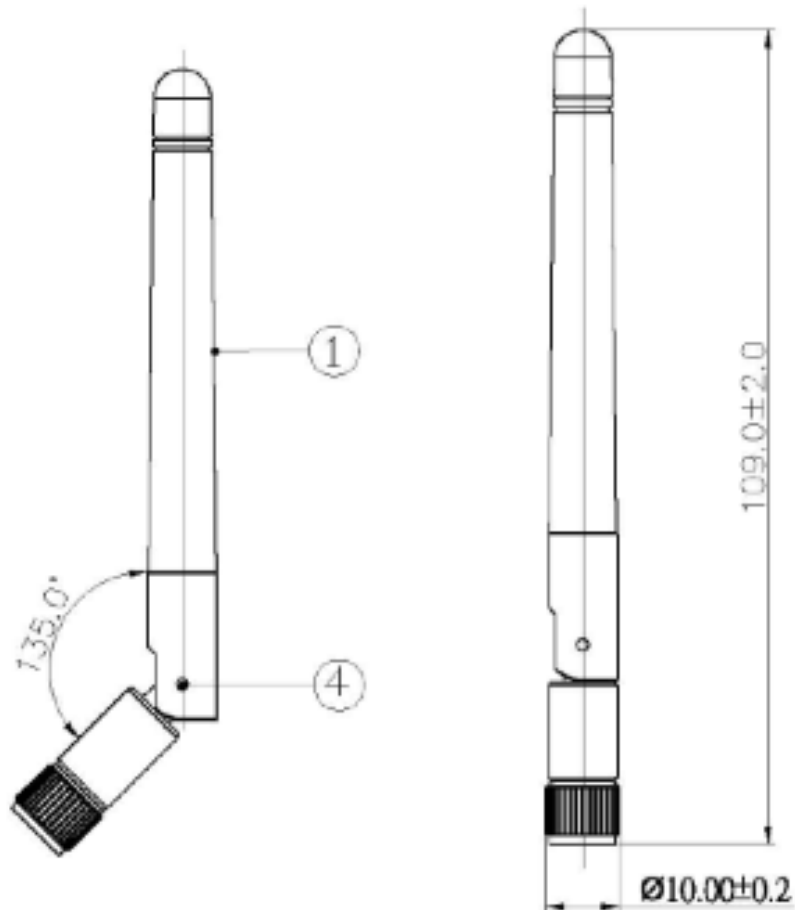


Reliability Testing

Test Item	Procedure	Requirement
1. Visual Inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: $< \pm 5\%$
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : $< \pm 5\%$
4. Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: $< \pm 5\%$

Dual band 2.4/5GHz rubber duck antenna with RP-SMA (reverse polarity male) connector

Part #: WAND2DBI-SMA



*real size representation in mm

The WAND-2DBI-SMA is a high performance antennae on both 2.4GHz and 5GHz bands. Will perfectly fit AP/Router devices, Media Players, Home Theater, Internet Appliances, MiniPCs etc.

High sensitivity dual band 2.4/5GHz rubber duck antenna - compact design - with RP-SMA (reverse polarity male)

Part #: WAND5DBI-SMA

Model	WAND-5DBI	
Freq. Range	2400-2483.5MHz	5150-5850MHz
Bandwidth	83.5MHz	700MHz
Gain	3dBi	5dBi
V.S.W.R	<2	
Max Power	5 W	
Polarization	Vertical	
Impedance	50 Ω	
Connector	RP-SMA male	
Dimension	152x11mm	
Weight	150g	
Radome Material	ABS	

MECHANICAL SPECIFICATION

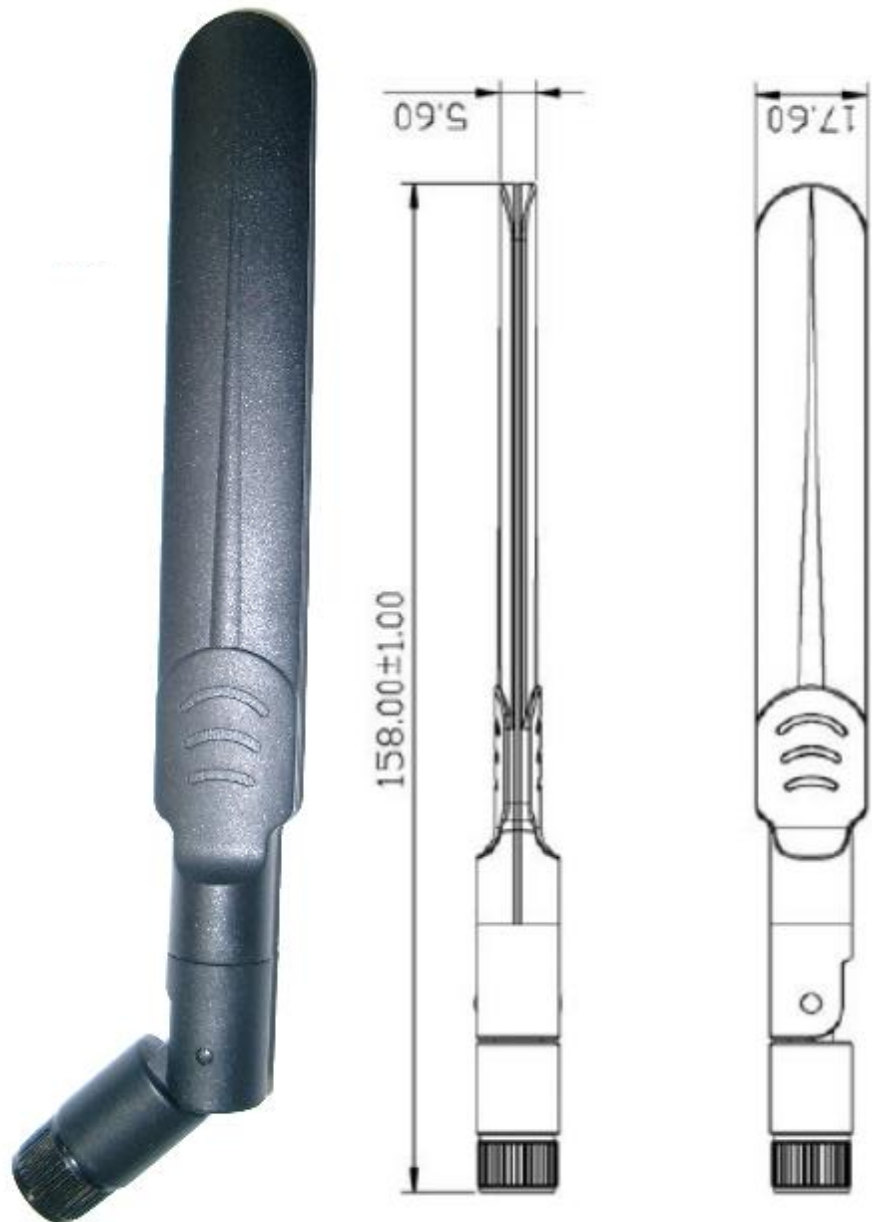
- Antenna Cover: PU
- Color: Black
- Operation Temperature: -20 ~ +60 degree
- Storage Temperature: -30 ~ +75 degree

The WAND-5DBI-SMA is the perfect replacement for standard stock antennae of a wireless devices when better signal to noise ratio is needed, combining compact size and great aesthetics. Stock antennae are only rated at 1-2dbi where the WAND series highly perform on both 2.4GHz and the full 5GHz bands. Will perfectly fit AP/Router devices, Media Players, Home Theater, Internet Appliance, MiniPCs etc.



- SOURCING ADVISORY
- SCHEDULED DELIVERIES
- PROACTIVE SUPPLY CHAIN

High sensitivity dual band 2.4/5GHz rubber duck antenna -
 compact design - with RP-SMA (reverse polarity male)
Part #: WAND5DBI-SMA

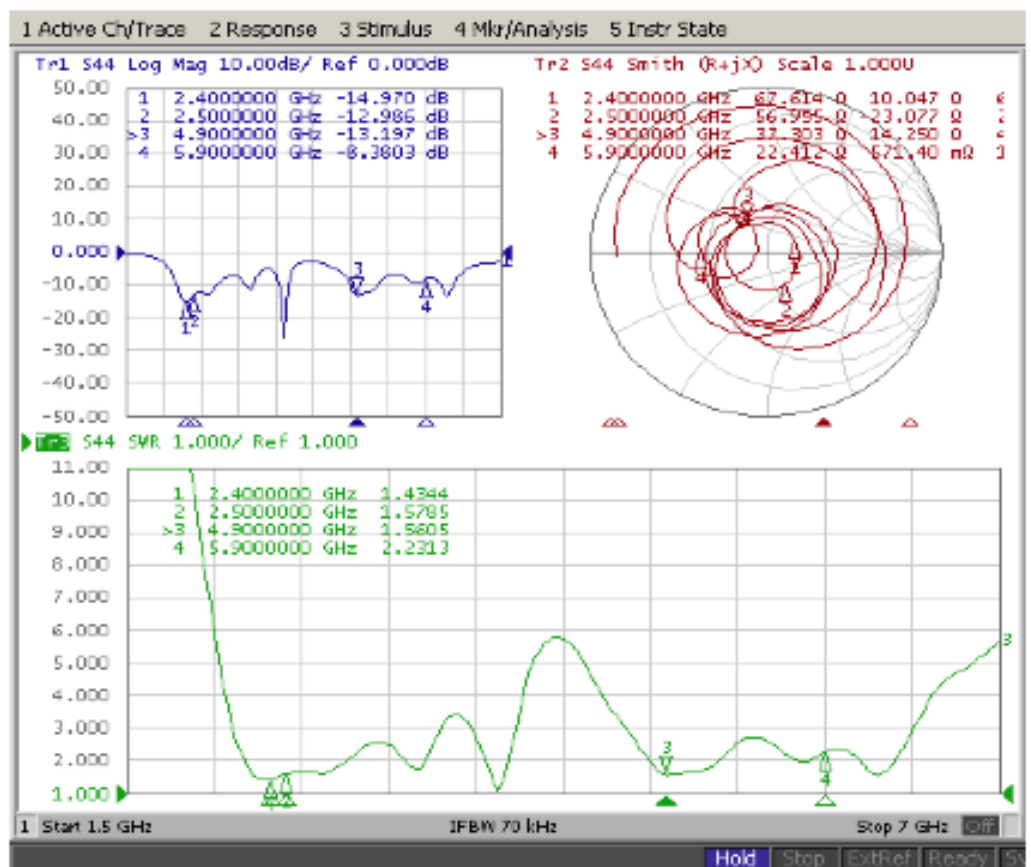


*real size representation in mm

FOR FURTHER INFORMATION, CUSTOMIZATION AND VOLUME PRICING CONTACT OXFORDTEC WHOLESALERS
 U.S.A./CANADA 877 411-WIFI OR +1 (562) 252-1420 - U.K. +44 1844 222001
 OR EMAIL SALES AT OXFORDTEC.COM

Dual band 2.4/5GHz rubber duck antenna with RP-SMA (reverse polarity male) connector Part #: WAND2DBI-SMA

S Parameter Test data



- SOURCING ADVISORY
- SCHEDULED DELIVERIES
- PROACTIVE SUPPLY CHAIN

Dual band 2.4/5GHz rubber duck antenna with RP-SMA (reverse polarity male) connector

Part #: WAND2DBI-SMA

Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

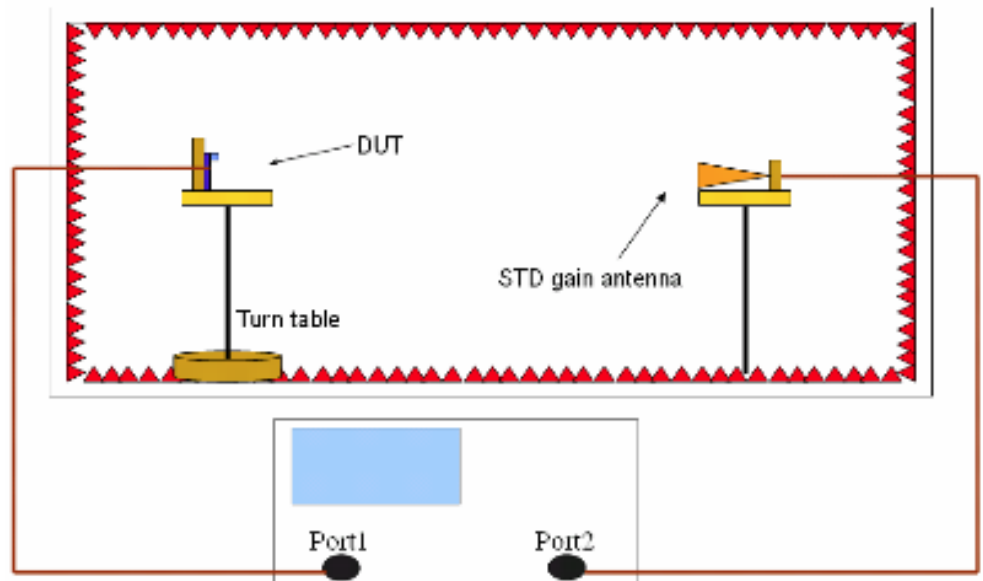
Quiet Zone: 600mm @ 1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



mark : H-Plane // Vertical Polarization
ted by : Antenna 3D Lab // Zhao Yao Rong

ocation: Chamber

emperature (°C): 22.00

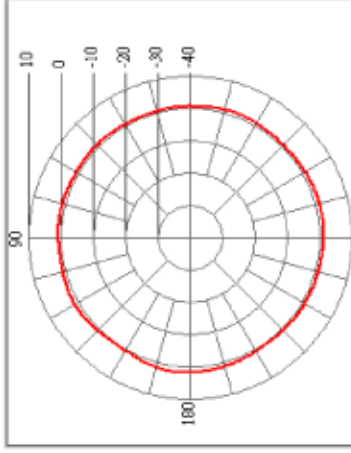
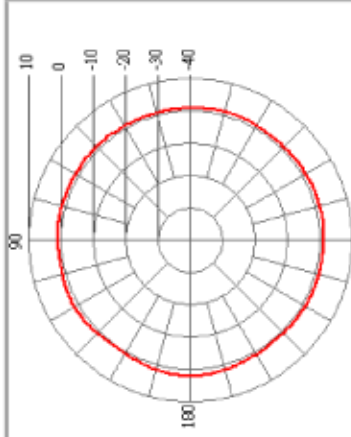
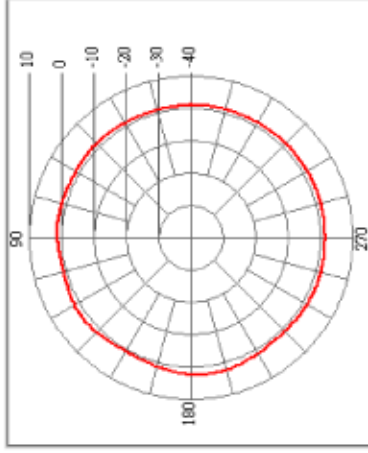
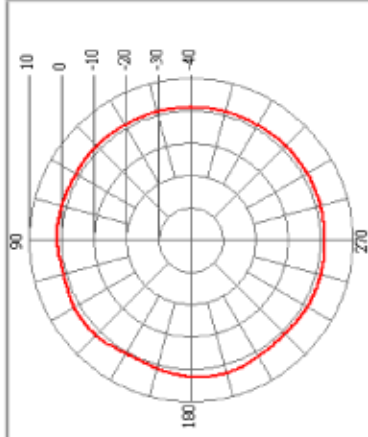
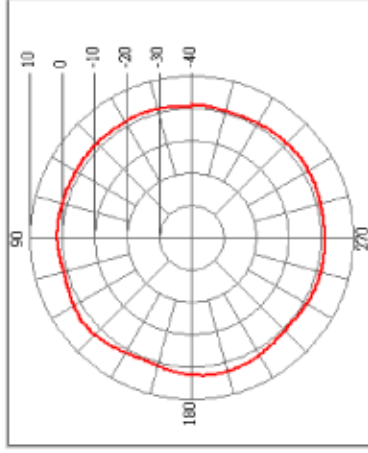
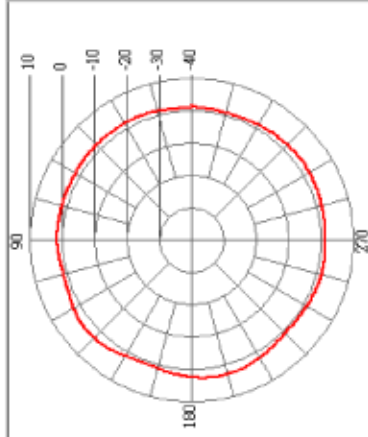
Date: 2007/4/19

Time: 上午 09:08:45

Humidity (%): 55.00

Approved by:

Freq. (MHz)	2390	2400	2410	2420
Peak Gain (dBi)	2.81	2.6	2.5	2.29
Peak Degree	132	191	191	191
AV Gain (dB)	1.6	1.42	1.25	1.18



mark : E-Plane // Horizontal Polarization
ted by : Antenna 3D Lab // Zhao Yao Rong

ocation: Chamber

emperature (°C): 22.00

Date: 2007/4/19

Time: 上午 09:15:38

Humidity (%): 55.00

Approved by:

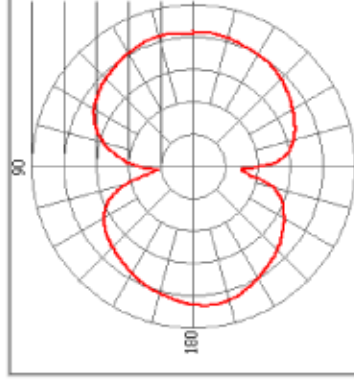
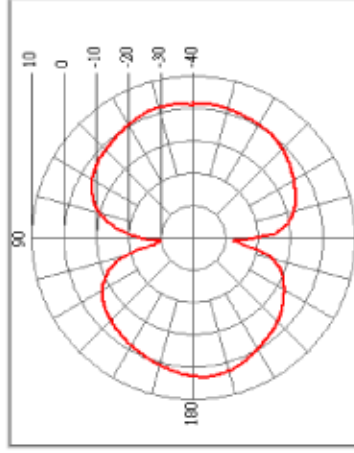
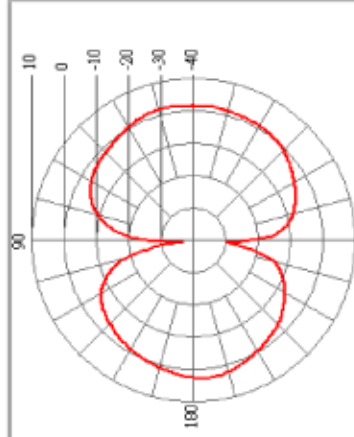
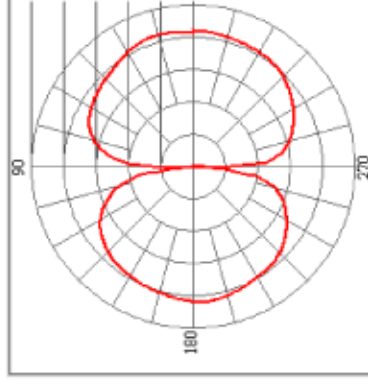
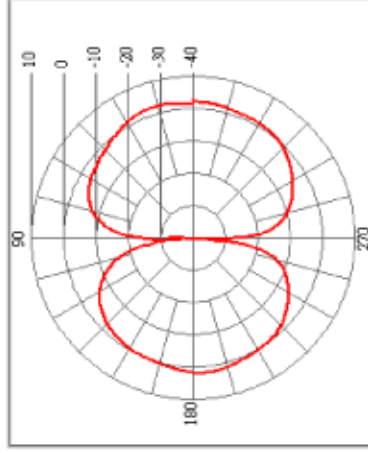
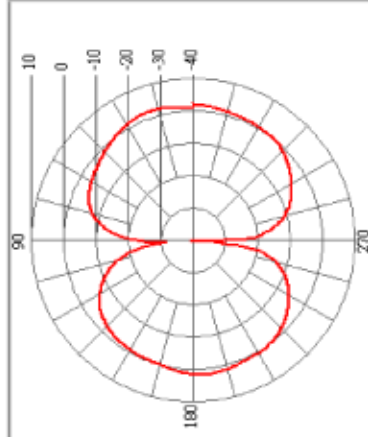
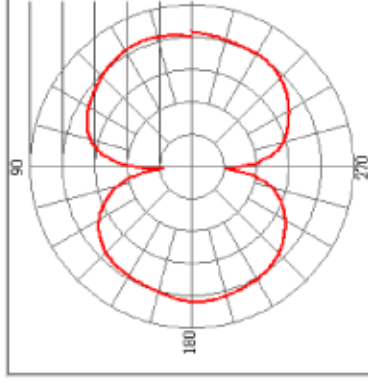
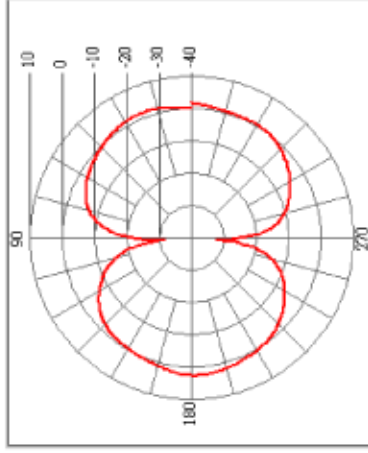
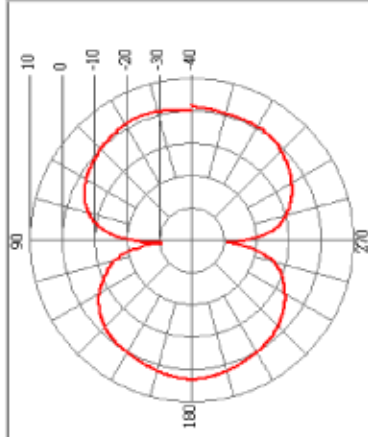
Freq. (MHz)

Peak Gain (dBi)

Peak Degree

AV Gain (dBi)

2390	2400	2410	2420
2.79	2.35	1.79	1.95
180	181	186	19
-1.27	-1.44	-1.67	-1.74



mark : H-Plane // Vertical Polarization
 ted by : Antenna 3D Lab // Zhao Yao Rong

ocation: Chamber

emperature (°C): 22.00

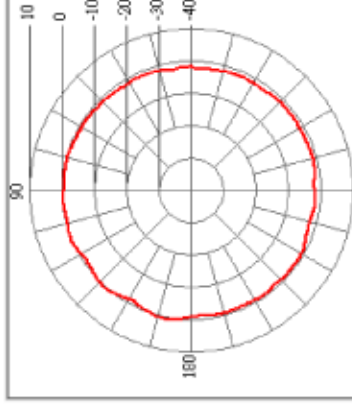
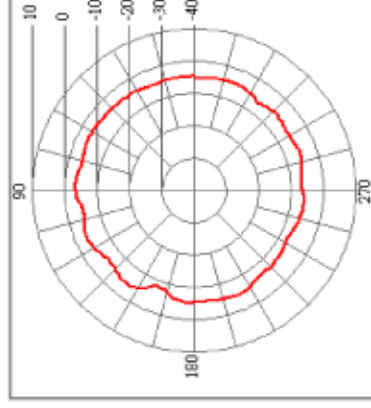
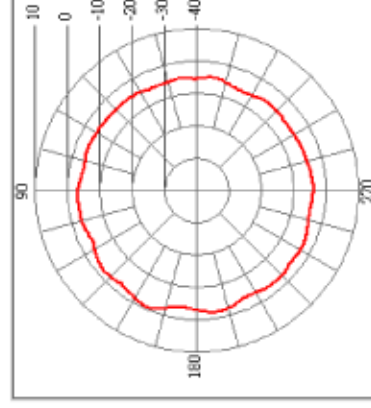
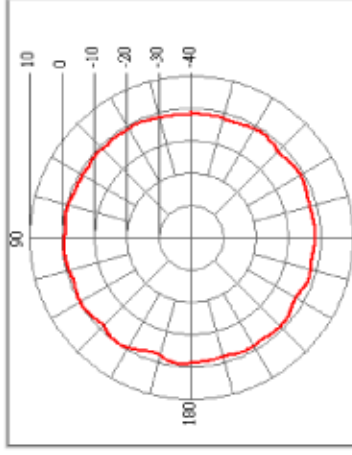
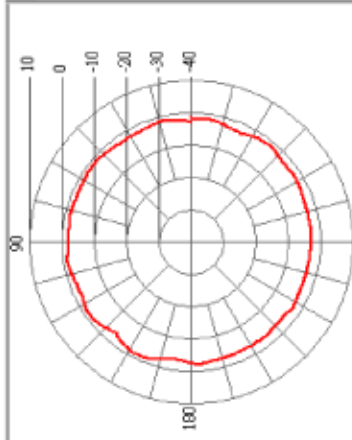
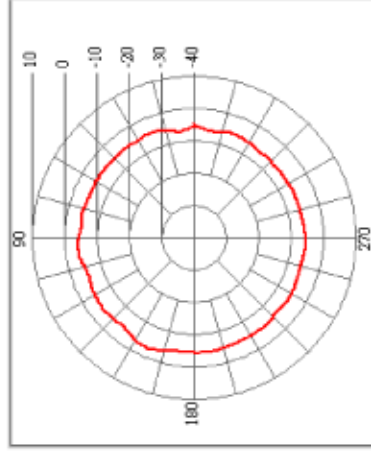
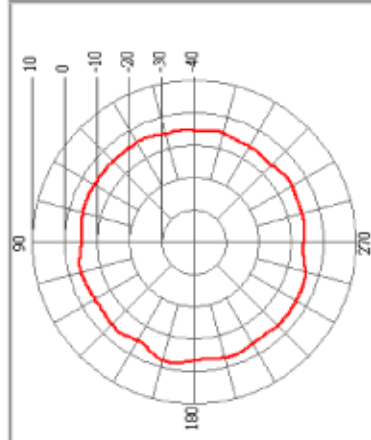
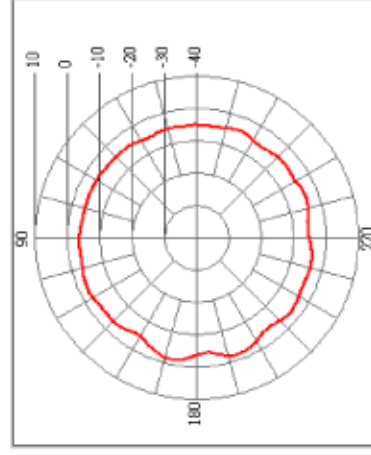
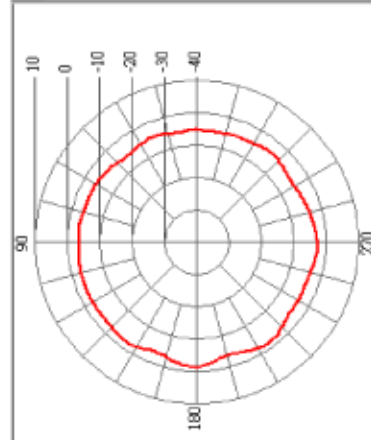
Date: 2007/4/19

Humidity (%): 55.00

Time: 上午 09:11:08

Approved by:

Freq. (MHz)	4900	5000	5100	5200
Peak Gain (dBi)	-1.45	-1.69	-0.88	-1.9
Peak Degree	180	168	157	180
AV Gain (dBi)	-3.65	-4	-3.8	-4.07



mark : E-Plane // Horizontal Polarization
 ted by : Antenna 3D Lab // Zhao Yao Rong

ocation: Chamber

emperature (°C): 22.00

Date: 2007/4/19

Time: 上午 09:15:38

Humidity (%): 55.00

Approved by:

Freq. (MHz)	4900	5000	5100	5200
Peak Gain (dBi)	1.05	0.93	1.4	1.32
Peak Degree	323	317	312	220
AV Gain (dBi)	-3.22	-3.26	-2.89	-3.12

