

Antenna Datasheet

產品規格承認書

Specification For Approval

日期： 2008 / 02 / 19
Date

編號： 080219001
File No.

版本： 1.0
Revision

承認廠商： 偉 德
Customer

製造廠商： 東莞康捷電子有限公司
Manufacturer

型號品名： 2.4 GHz External Antenna
Part Number
Description DAT - G 0 1 R

廠商審核：
Approved By

Product Number: DAT-G01R
Product Name: 2.4 GHz External Antenna

Index:

- 1. Reliability Testing**
- 2. Specification**
- 3. S Parameter Test Data**
- 4. Antenna Radiation Pattern**
- 5. Mechanical Drawing**
- 6. MSDS & SGS Report**

=====

1. Reliability Testing

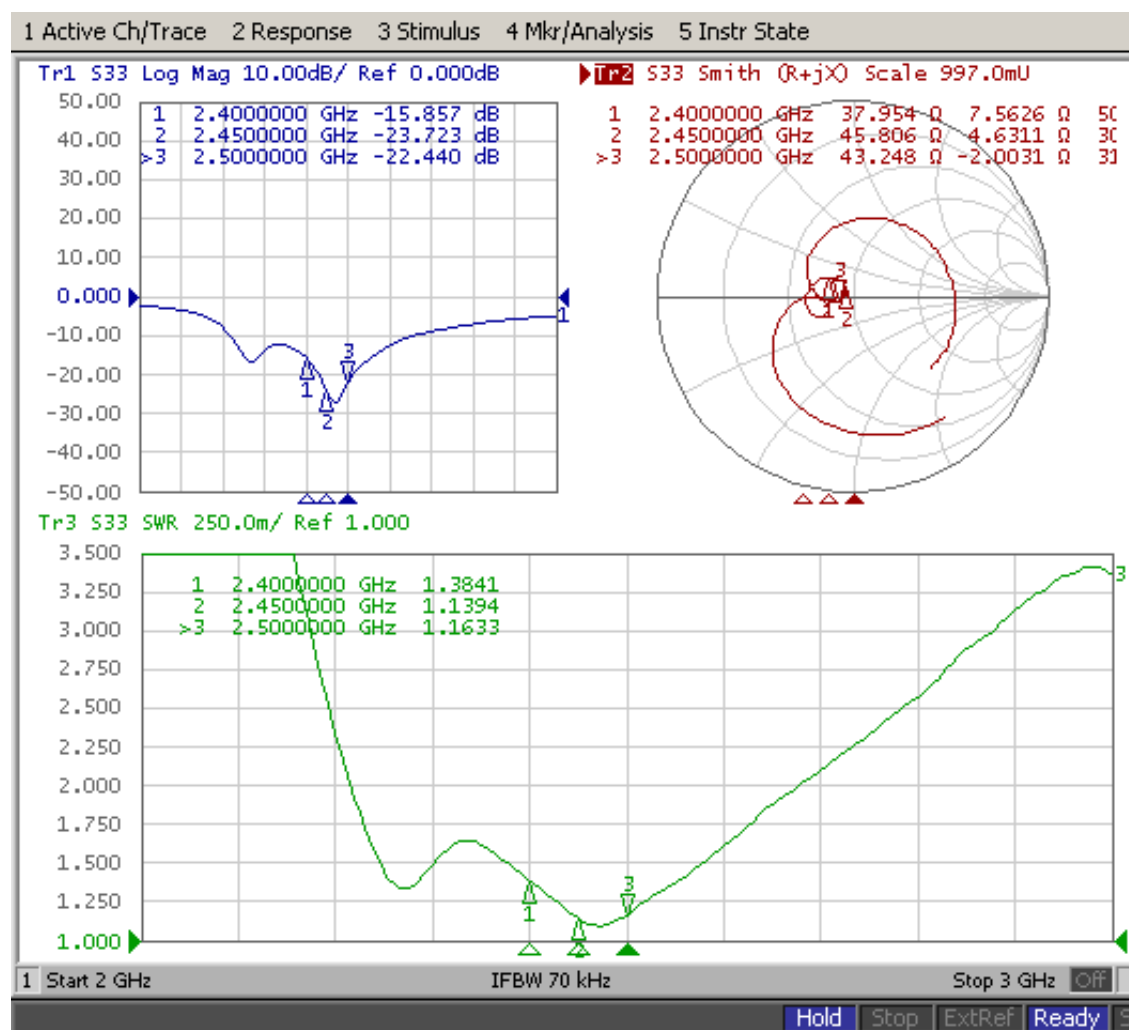
Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours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

Product Number: DAT-G01R
Product Name: 2.4 GHz External Antenna

2. Specification

A. Electrical Characteristics	
S.W.R.	≤ 2.0 @ 2400~2500 MHz
Antenna Gain	$+3.0 \pm 0.7$ dBi @ 2450 MHz
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	SMA Male
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S Parameter Test data



Product Number: DAT-G01R
Product Name: 2.4 GHz External Antenna

4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

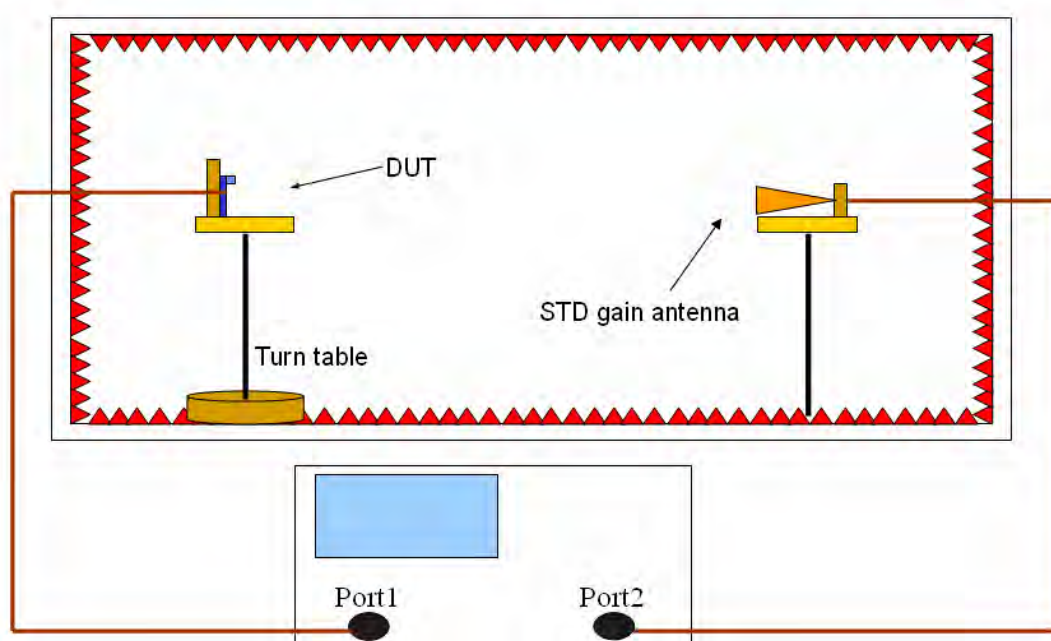
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



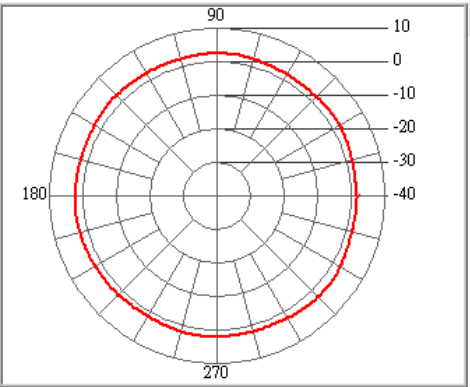
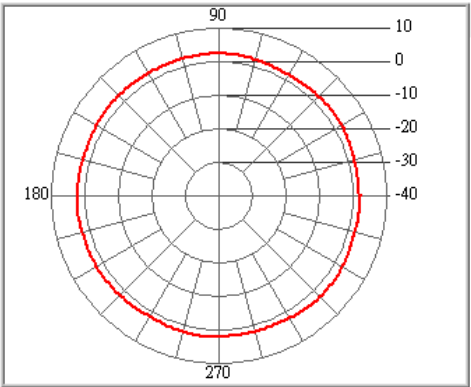
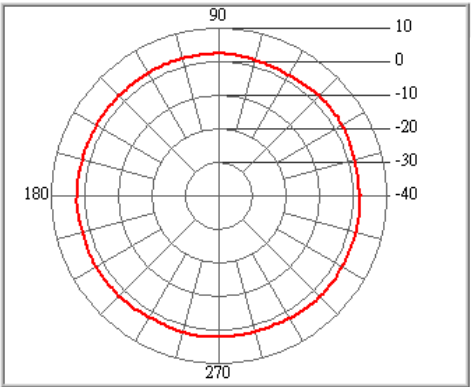
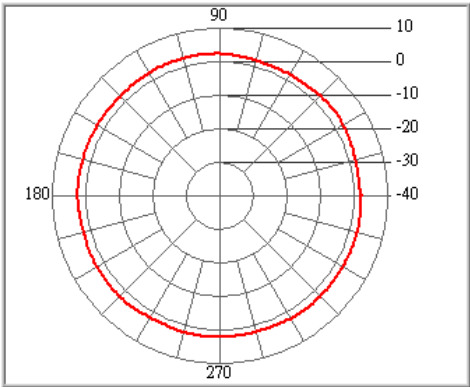
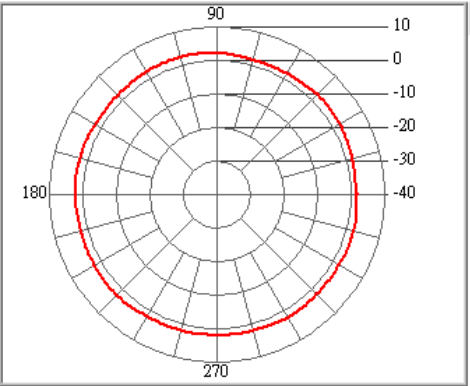
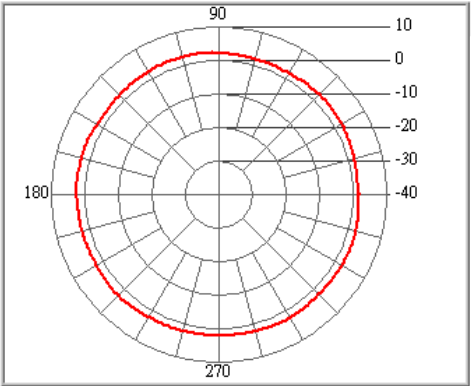
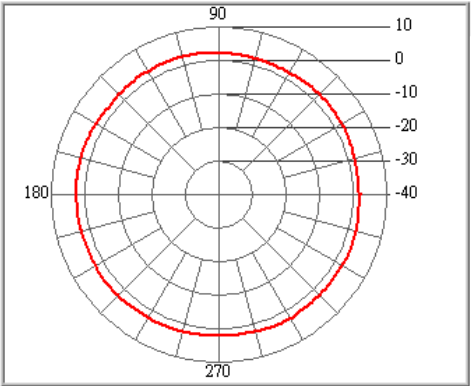
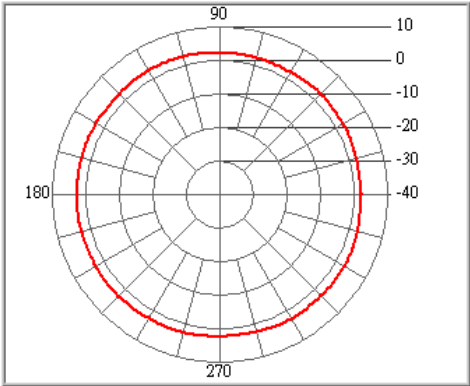
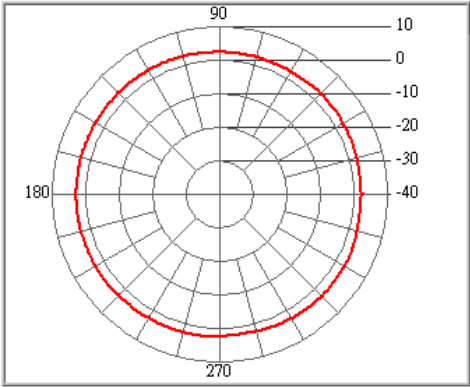
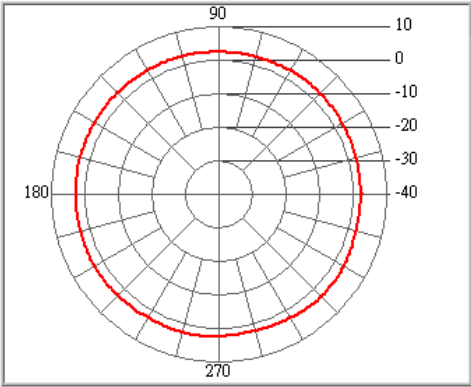
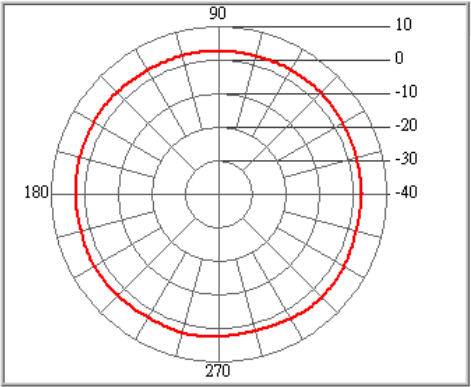
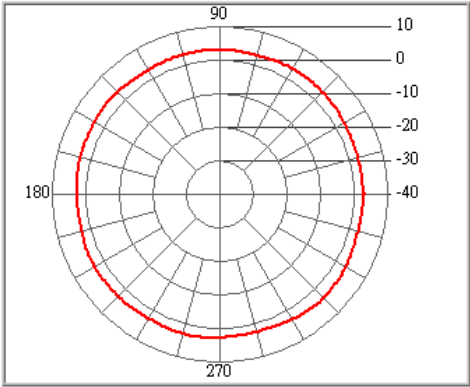
5. Mechanical Drawing

6. MSDS & SGS Report

Model : 2.4G Antenna
Remark :H-Plane // Vertical Polarization
Tested by : CORTEC Antenna 3D Lab // Li Yu

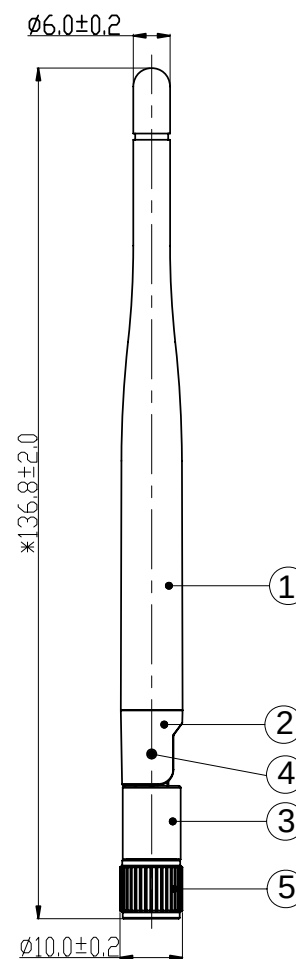
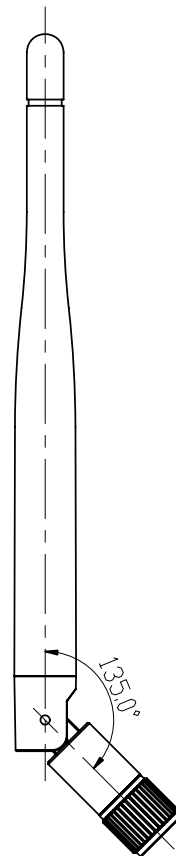
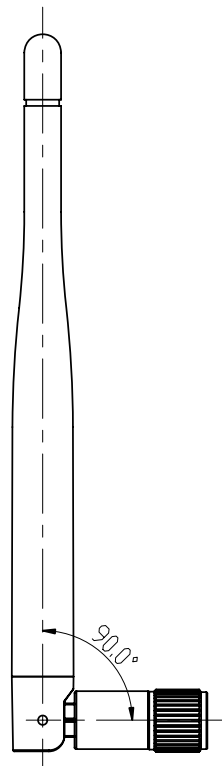
Location: Chamber Date: 2006/11/22 Time: 下午 12:01:44
Temperatuer (°C): 22.00 Humidity (%): 55.00 Approved by:

Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	3.74	3.35	3.1	2.98	2.9	2.69	2.49	2.47	2.57	2.55	2.67	2.67
Peak Degree	312	312	317	330	215	221	112	39	34	324	324	324
AV Gain (dBi)	2.99	2.74	2.62	2.6	2.52	2.33	2.17	2.07	2.18	2.16	2.1	2.07

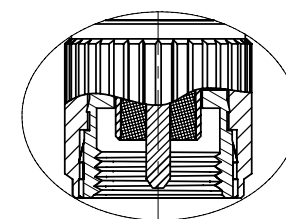
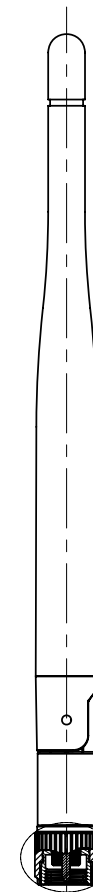


RoHS
Compatible

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



DAT - G01R



Detail A
Scale 3:1

Noted:

- 1.Unmarked tolerance refer to standard tolerance please
- 2.Taked*dimension is the important dimension

5	R-SMA267-CC8MNANT	SMA Male	Zn Alloy	Eletrodeposition	
4	R-AN01-1213Z	Hinge Pin	Cu	Black Zn Plated	2
3	R-AN5801-01B	Body3	PA+ABS	Black	1
2	R-AN58-02B	Body2	PA+ABS	Black	1
1	R-AN58-03B	Body1	TPE	Black	1
NO.	Part Number	Description	Material	Finished	Q'ty

AUSTONE

PART NAME: 2.4GHz Antenna

PART NO.: DAT - G01R

DWG NAME: AN2400-5806SM.dwg

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

Grant
2008/02/18

LiuKui
2008/02/18

yangxiaosu
2008/02/18

UNITS: mm

SCALE: 1/1

REVISION: A

X.X ±0.1

X.XX ±0.05

X° ±3°