

產品規格承認書

Specification For Approval

日期： 2008 / 04 / 28

Date

編號： ASM-84281

File No.

版本： 1.0

Revision

承認廠商： 錄森科技股份有限公司

Manufacturer

製造廠商： 英碩科技股份有限公司

Manufacturer

型號品名： 2.4 GHz External Antenna

Part Number

Description

INVAX P/N: AN2400-1901RS

廠商審核：

Approved By

Invax

英碩科技股份有限公司

台北市忠孝東路五段 815 號 4 樓

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Cortec

東莞康捷電子有限公司

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Index:

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

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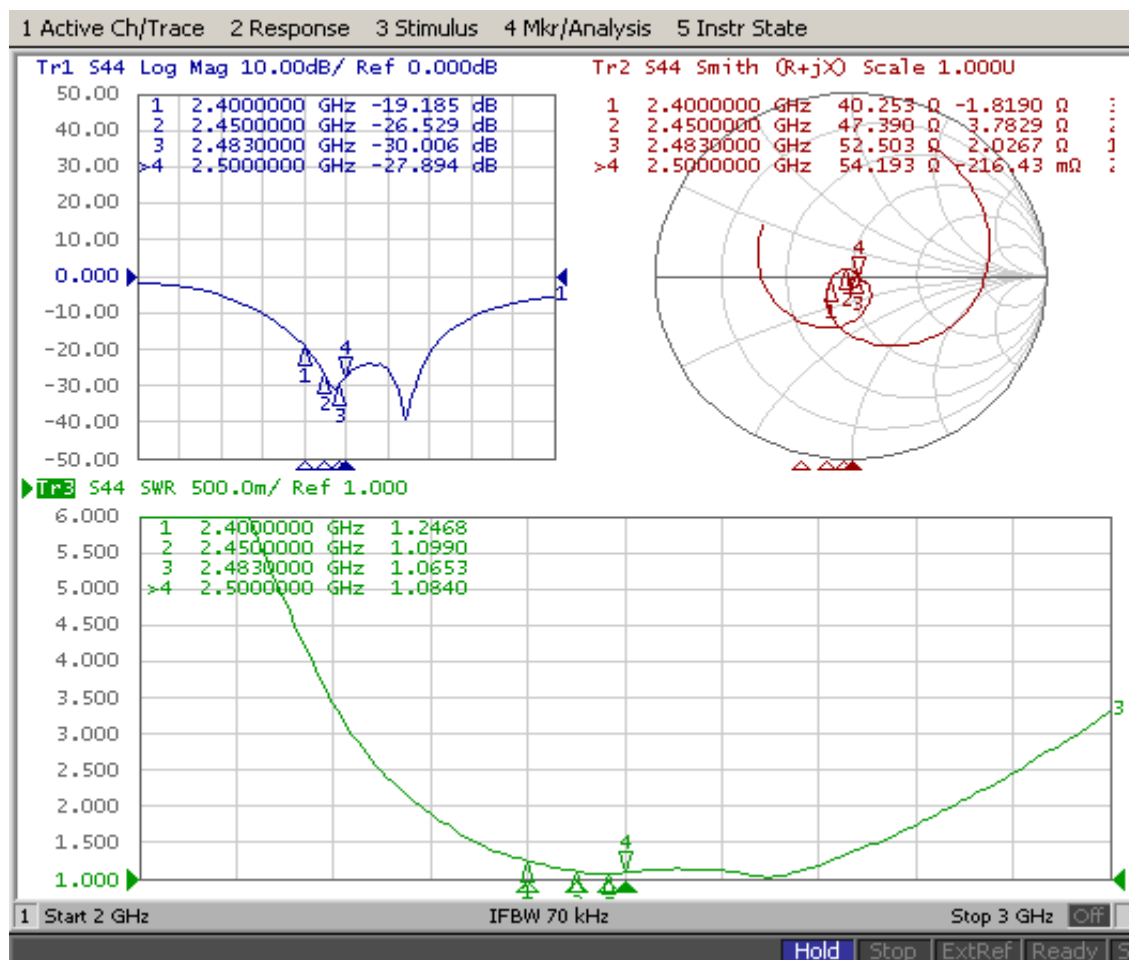
1. Reliability Testing

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%

2. Specification

A. Electrical Characteristics	
S.W.R.	≤ 2.0 @ 2400~2500 MHz
Antenna Gain	$+5.0 \pm 0.7$ dBi @ 2450 MHz
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	SMA Male Reverse
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S Parameter Test Data



4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

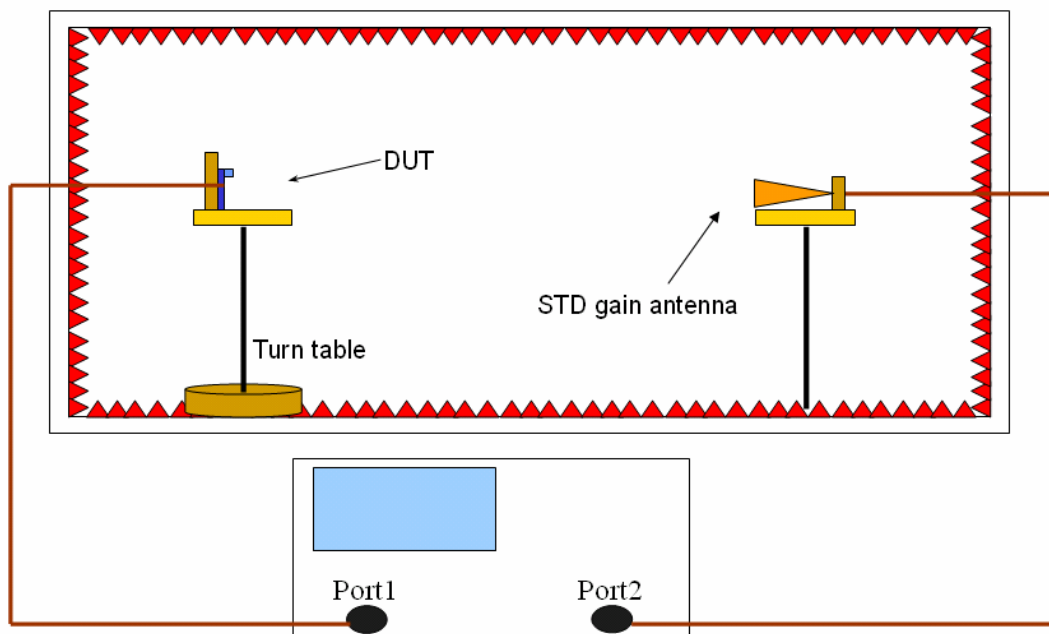
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



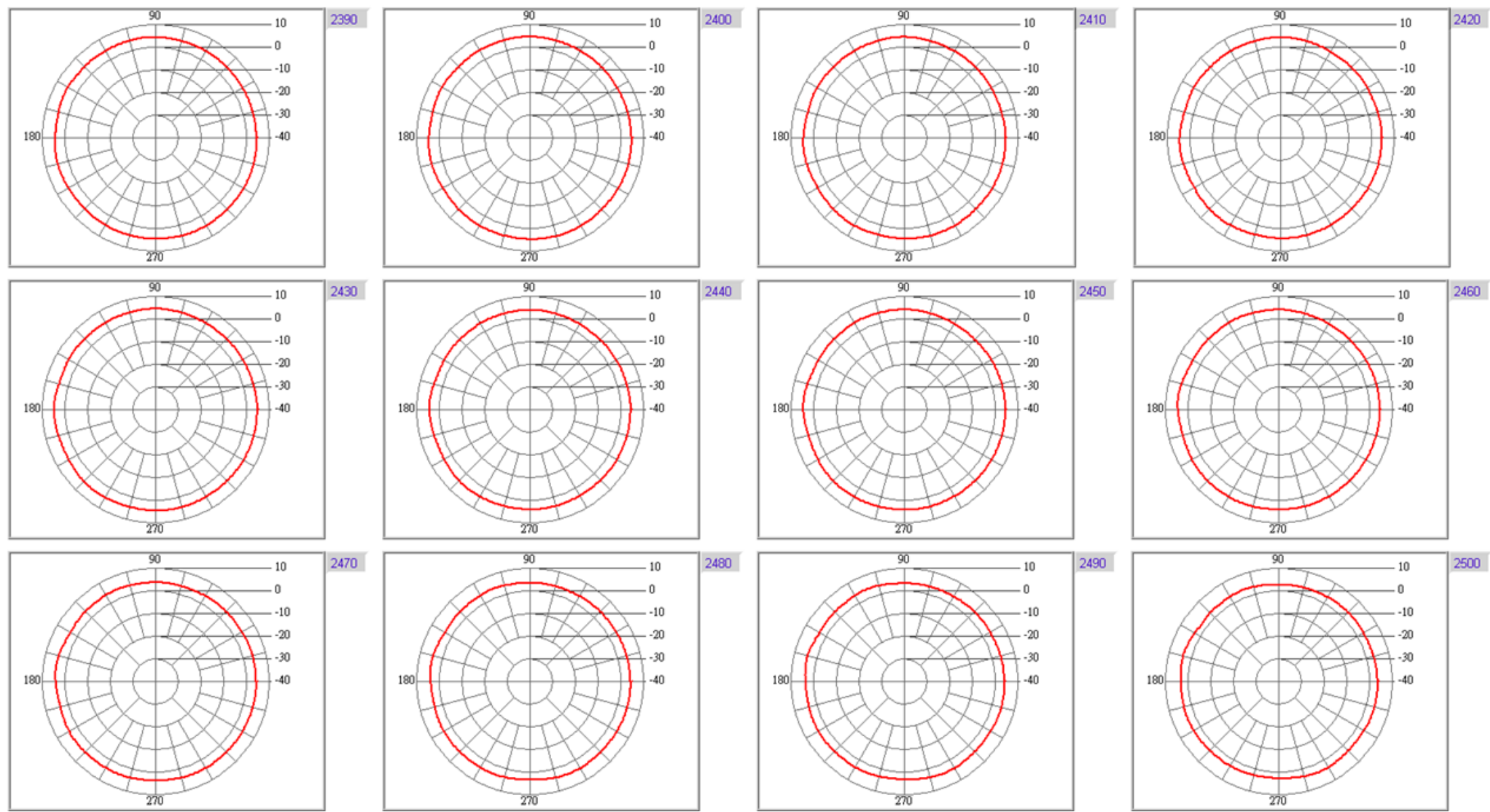
5. Mechanical Drawing

6. MSDS & SGS Report

Model : 2400MHz Antenna// Cortec
 Remark : H-plane // Vertical Polazation
 Tested by : CORTEC Antenna 3D Lab // Zhang Bing Xiang

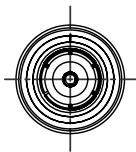
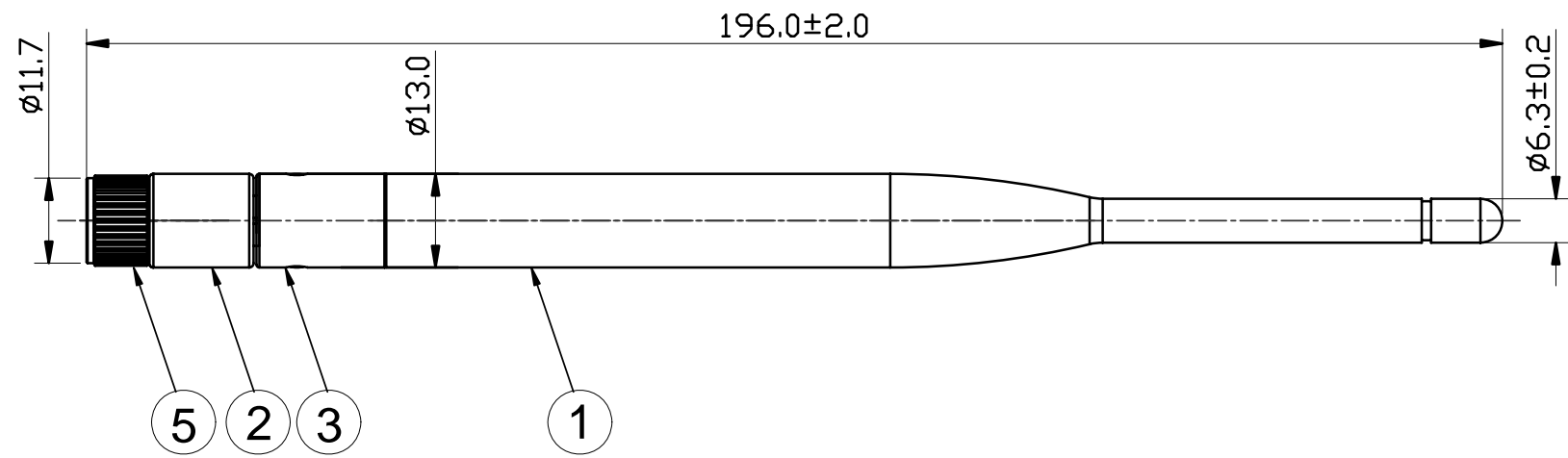
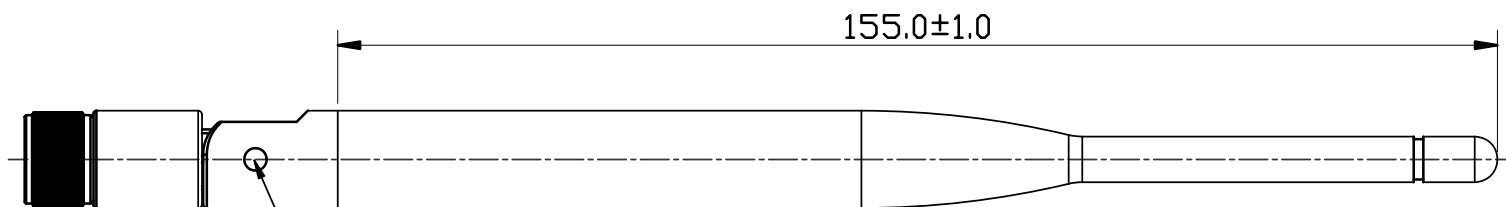
Location: **Chamber** Date: **2007/11/22** Time: **下午 05:32:55**
 Temperatur (°C): **22.00** Humidity (%): **55.00** Approved by:

Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	4.81	5	4.83	4.77	5.05	4.54	4.66	4.7	4.53	4.49	4.38	3.79
Peak Degree	342	343	343	1	0	0	2	360	358	359	354	349
AV Gain (dBi)	4.44	4.6	4.41	4.27	4.46	3.97	4.17	4.18	3.93	3.83	3.68	3.16



RoHS
Compatible

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



5	R-SMA324-ZC8MRANT	SMA Male Reverse	Metal	Eletrodeposition	1
4	R-AN03-514CZ	Pin	Metal	Plate the black zinc	2
3	R-AN03-T01	Body1	PA+ABS	Black	1
2	R-AN03-T02	Body2	PA+ABS	Black	1
1	R-AN1901-01	Body	TPE	Black	1
No.	Part Number	Description	Material	Finished	Q'ty

Invox System Group.
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TITLE: 2.4GHz Antenna

PART NO.:AN2400-1901RS DWG NAME: R-AN2400-1901RS.dwg

APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance	
Grant	Liu kui	Zhang yue xin		UNITS: mm	X.X ±0.1
2007.12.28	2007.12.28	2007.12.28		SCALE: 1/1	X.XX ±0.05
			REVISION: A	X° ±1°	