

APPROVAL SHEET

CUSTOMER : 訊強通訊科技股份有限公司

MODEL NO. : W119-141-D200

DESCRIPTION: 2.4G ANTENNA WITH RP SMA

Signed By Customers

Approved By:

供應商: 環旺精密股份有限公司

TEL:02-2917-7528;FAX:02-2912-1659

台北縣新店市寶興路 37 號 3 樓

SPECIFICATION

1. Electrical Properties

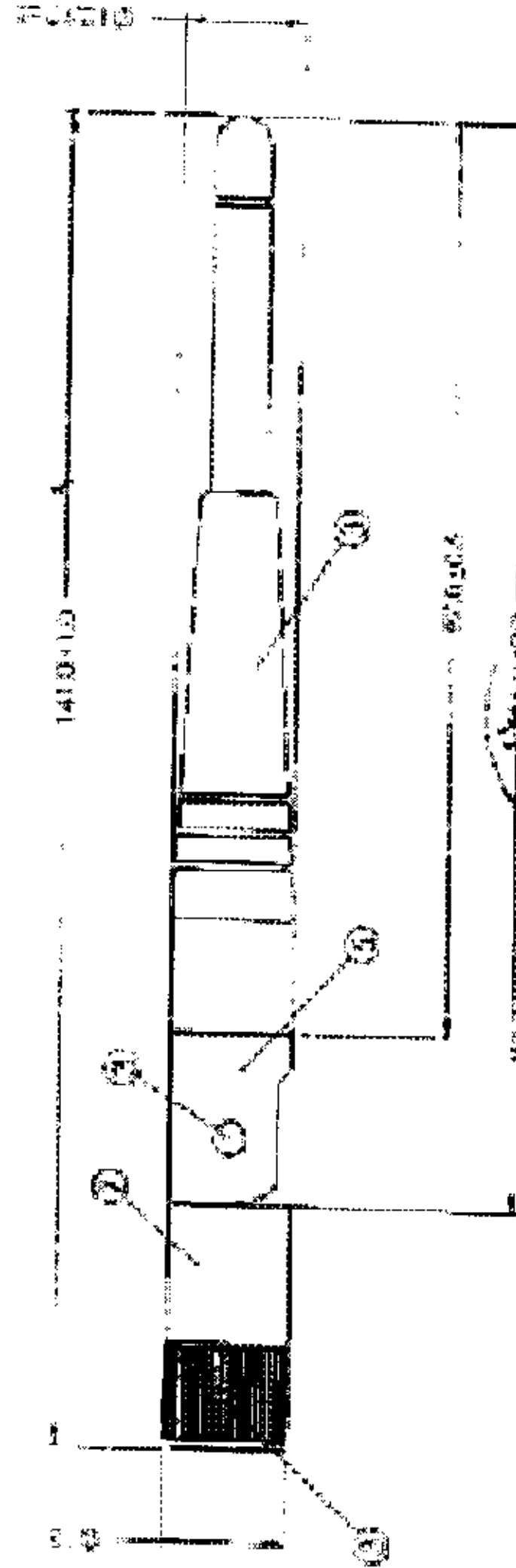
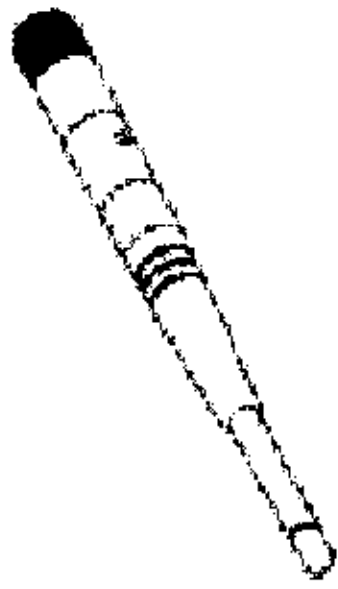
1-1	Frequency Range	2.4~2.4835GHz
1-2	Impedance.....	50 Ohms nominal
1-3	V.S.W.R.....	2.0 (Max.)
1-4	Return Loss.....	-10.0 dB(Max.)
1-5	Max. Gain.....	2.0dBi
1-6	Polarization.....	Vertical
1-7	Admitted Power.....	1W
1-8	Electrical Wave.....	1/4 λ Dipole

2. Mechanical Properties

2-1	Connector.....	RP SMA PLUG
2-2	Cable.....	RG178
2-3	Antenna Body.....	T.P.R.
	Antenna Base.....	ABS
2-4	Operating Temperature Range.....	-20℃ ~ +50℃
2-5	Storage Temperature Range.....	-20℃ ~ +50℃
2-6	Rotating Test	1.0kg-cm after 2000 cycles with rate of 30 cycles/mins (Max.).
2-7	Attachment Strength.....	2.0 kg-cm .

工程成品圖

100-100-100



ITEM	DESCRIPTION	MATERIALS
1	SMA Connector	Black Ox
2	Cap	Black Ox
3	Main Body	Black Ox
4	Side Component	Black Ox

ELECTRICAL PERFORMANCE:
 1. Impedance: 50 ohms
 2. Frequency Range: 2.4~2.5 GHz
 3. VSWR: 1.5 maximum
 4. Gain: 1.5dB



TITLE		RP SMA ANTENNA		10	
DESIGNER	Yong	CHECKED	Yong	DATE	2017.3.18
APPROVED	Yong	DATE	2017.3.18	WIP-141-D200	
REVISIONS		WIP-141-D200			
REV	DESCRIPTION	DATE	BY	CHK	APP
01	NEW RELEASE	2017/03/17	Yong		
02	DESCRIPTION				

Return Loss

WILSON

200 NETWORK ANALYZER

MODEL: W119-141-D2000 DATE: 07/30/2002
 DEVICE ID: OPERATOR:

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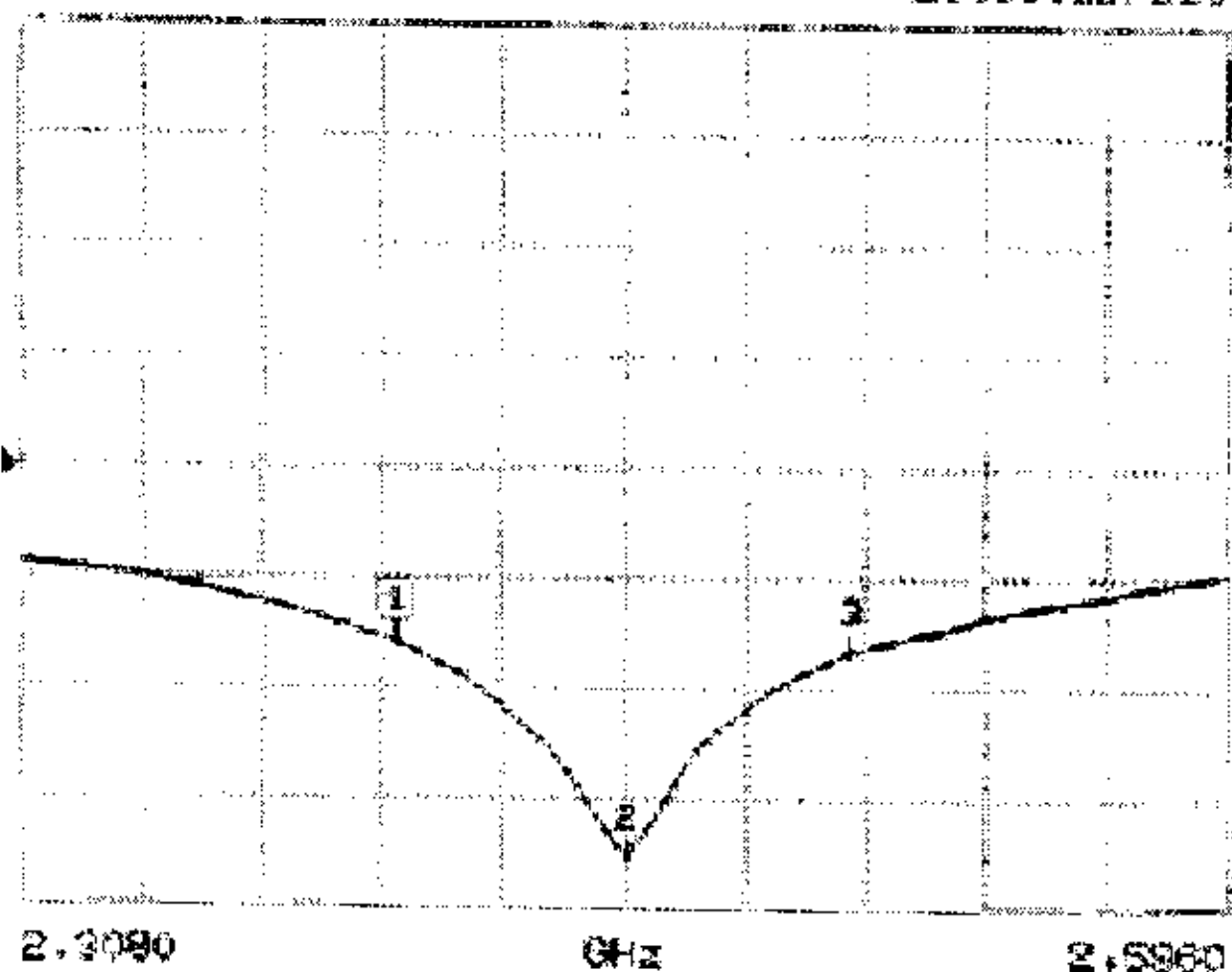
SWEEP DATA

START: 2.3080 GHz GATE START: ERROR CORR: REFL ONLY
 STOP: 2.5960 GHz GATE STOP: AVERAGING: 1 PTS
 STEP: 0.0180 GHz GATE: IS ENHANCED: REDUCED
 WINDOW:

PARAMETER: S11
 NORMALIZATION: OFF
 REFERENCE PLANE: 0.0000 mm
 SMOOTHING: 0.0 PERCENT
 DELAY APERTURE:

S11 FORWARD REFLECTION

LOG MAG. REF=0.000dB 10.000dB/DIU



CH 1 - S11
 REF. PLANE
 0.0000 mm

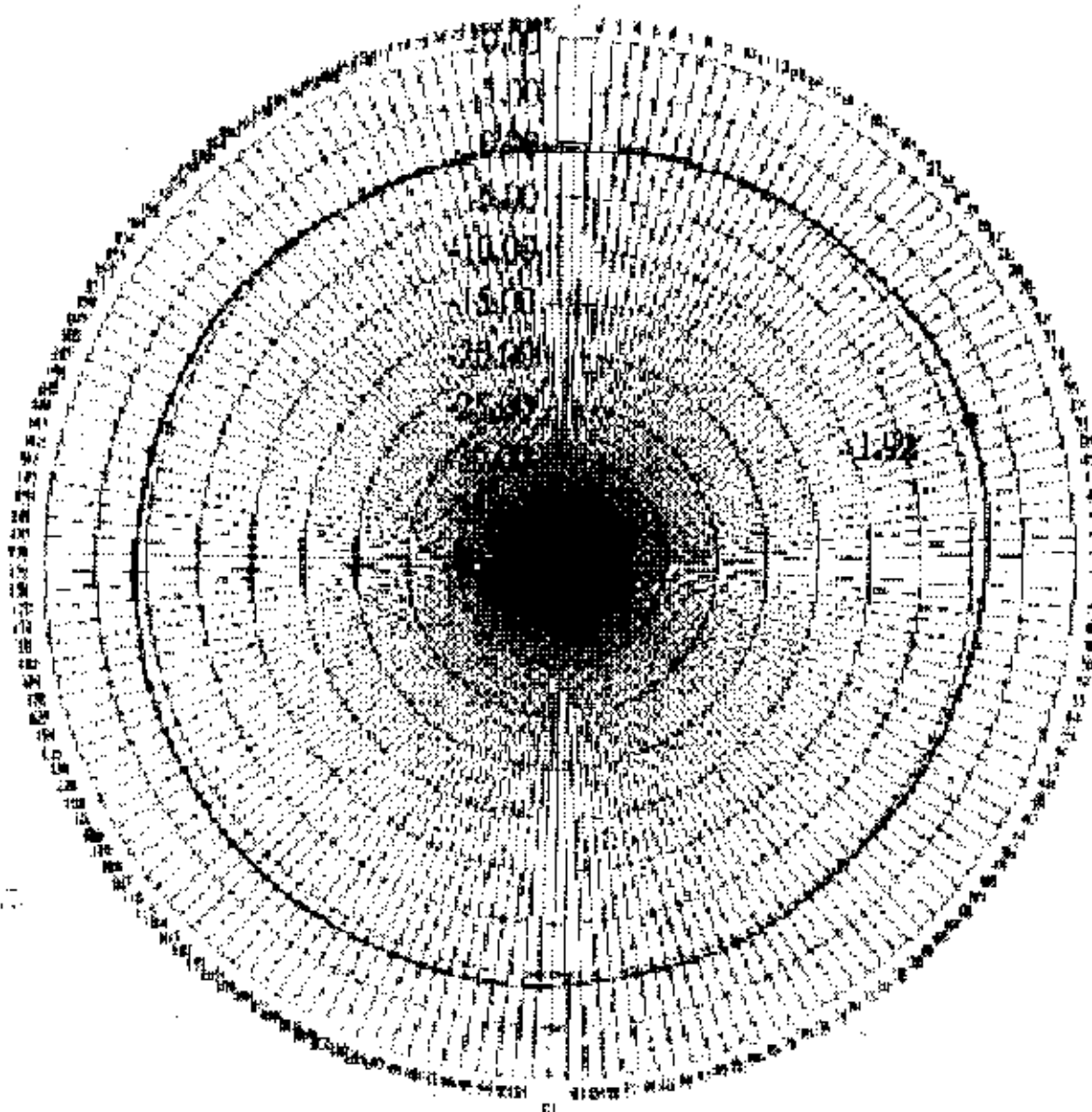
MARKER 1
 2.3960 GHz
 -15.709 dB

MARKER TO MAX
 MARKER TO MIN

2 2.4520 GHz
 -35.363 dB

3 2.5080 GHz
 -25.577 dB

H-Plane Test Report



10 ANTENNA PATTERN

ANTENNA TEST NO. W115-141-0289

TEST DATE: 2022/07/19

TEST FREQUENCY: 2400MHz

TEST POLARIZATION: VERTICAL
(H-PLANE)

TEST ANTENNA: HORN ANTENNA

TEST STEP: 10X (REG. 2 DEGREE)

TEST CHAMBER: RF CHAMBER

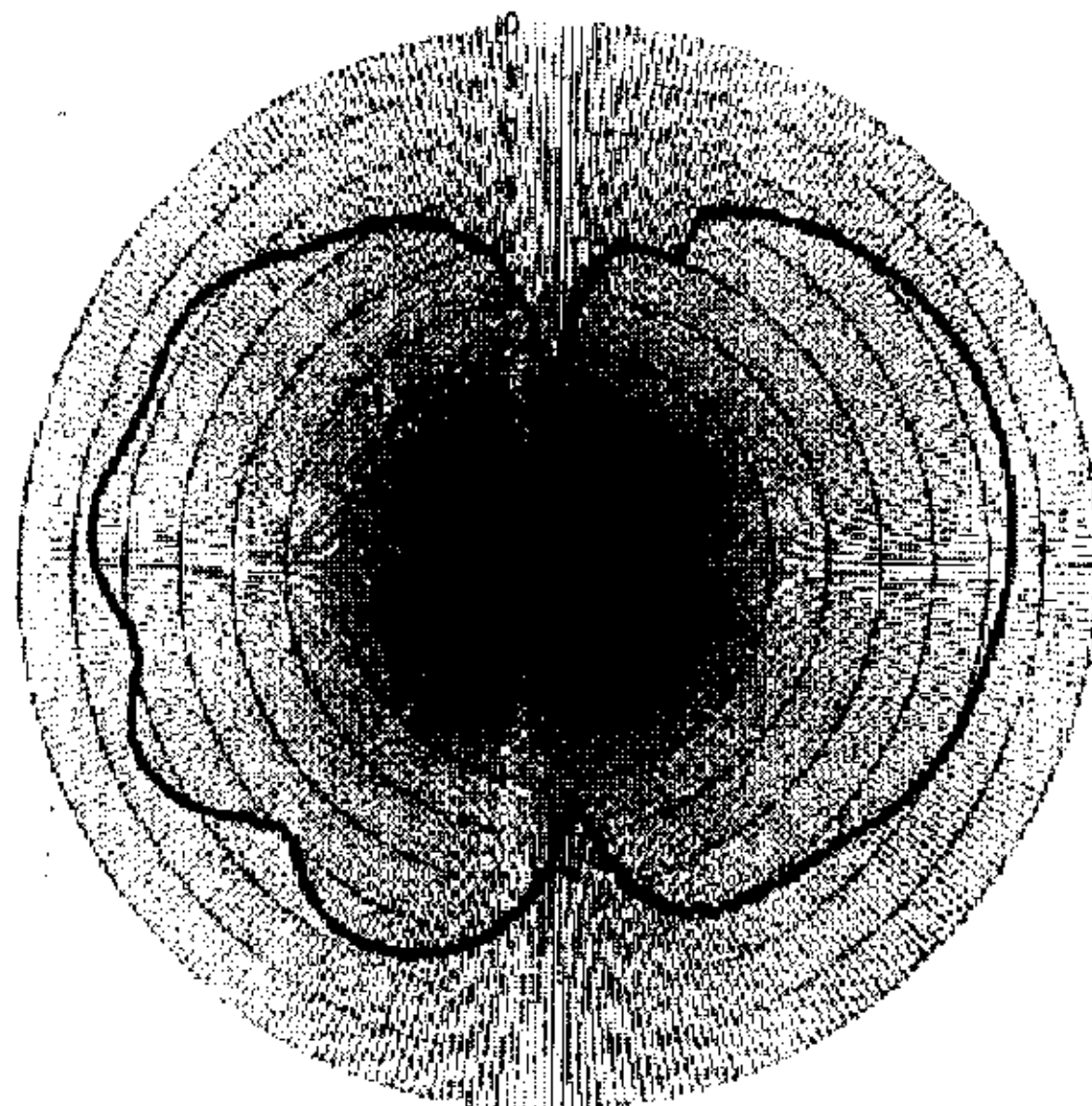
TEST PERSONNEL: BUNNY

MAX GAIN: 10.2 dB

MIN GAIN: -0.5 dB

AVE GAIN: 0.5 dB

E-Plane Test Report



10 ANTENNA PATTEM

ANTENNA TEST NO. W119-111-0000

TEST DATE: 2002/05/27

TEST FREQUENCY: 2450MHz

TEST POLARIZATION: HORIZONTAL
(E-PLANE)

TEST ANTENNA: HORN ANTENNA

TEST CHAMBER: RF CHAMBER

TEST PERSONNEL: Yang

MAX GAIN:	3.43 dbi
MIN GAIN:	-26.50 dbi
AVE GAIN:	-2.90 dbi