



Well Green Technology Co., Ltd

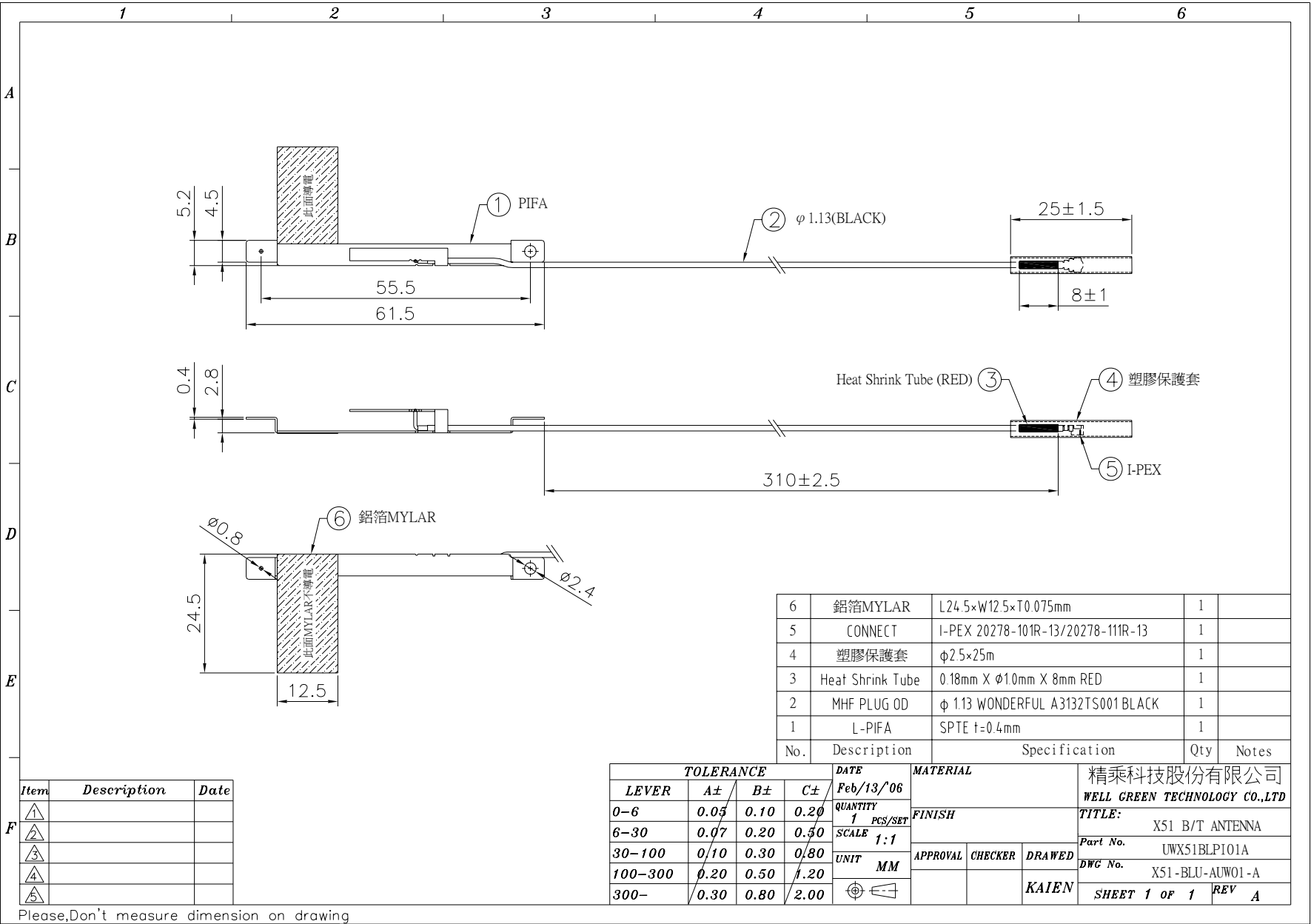
**No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418**

X51

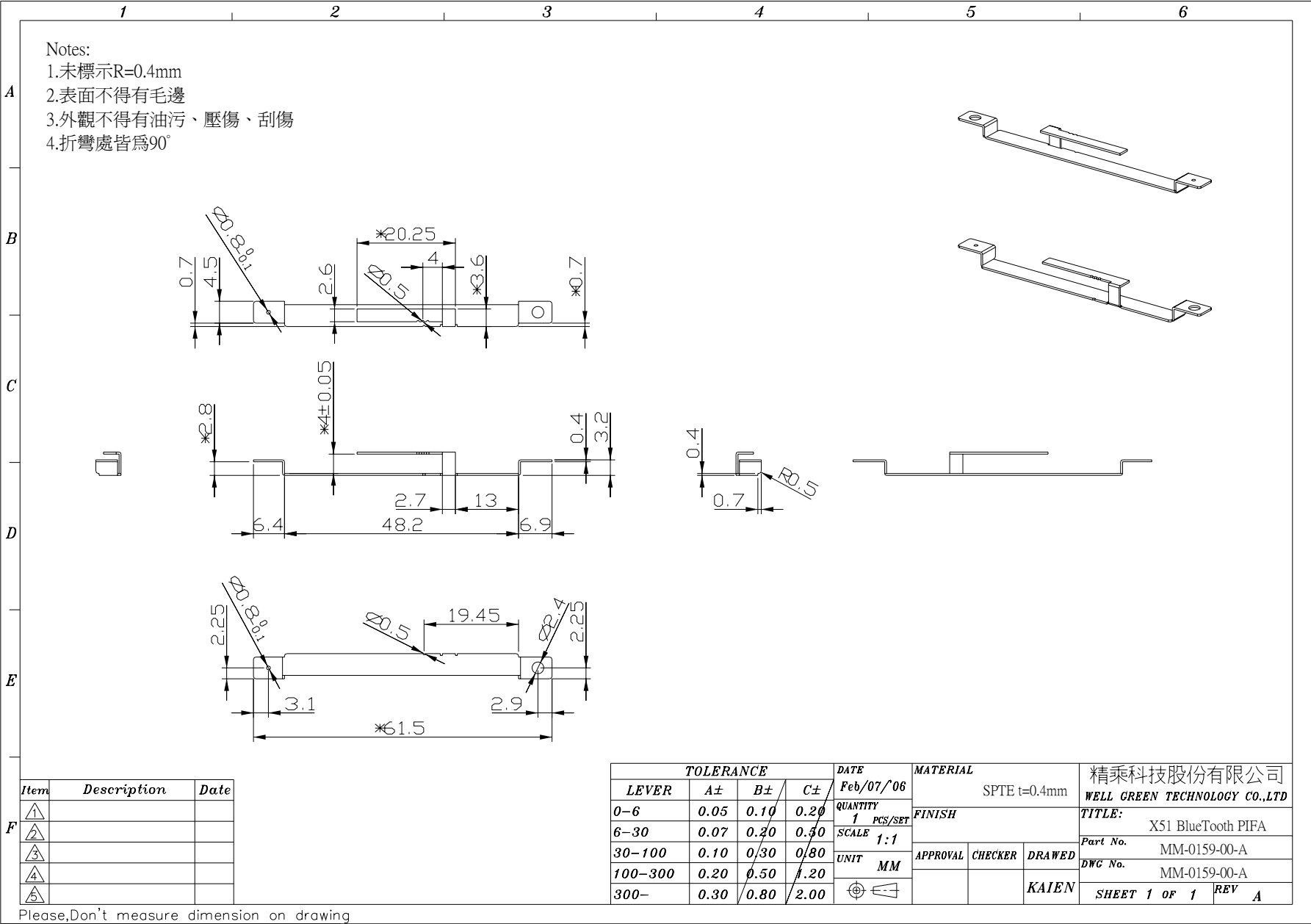
Antenna Test Report

RD Manager	Supervisor	RD engineer	Sales engineer
David	Johnson	Jason	Jerry

一、成品圖



二、零件圖



BOM 表

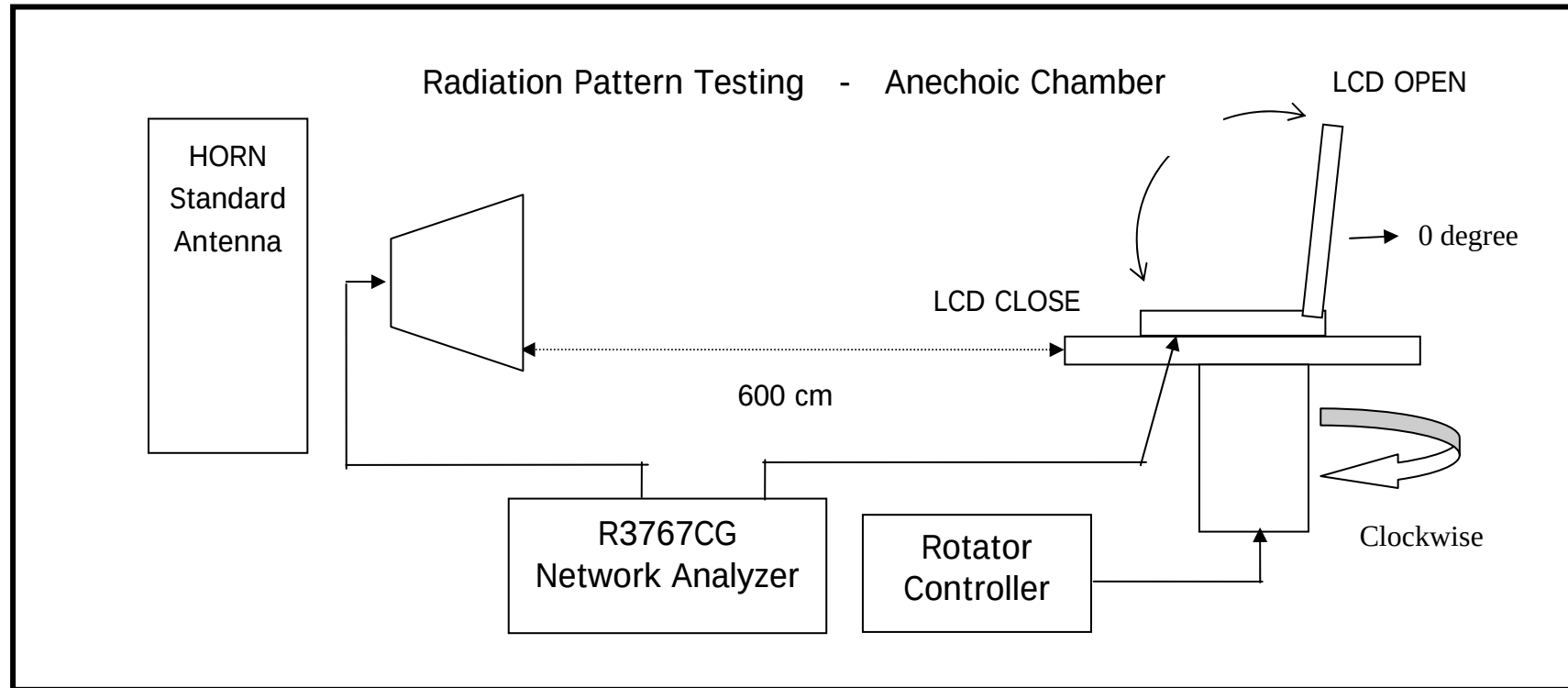
	1	2	3	4	5	6
	B O M					
A	ITEM	DESCRIPTION	SPECIFICATION	Q'TY	VENDER	P/N
	1	PIFA ANTENNA	X51(Bluetooth)PIFA	1		MM-0159-00-A
	2	COAXIAL CABLE	Wonderful A3132TS001 素材 ?1.13 *345mm Black	1		CA-0058-35-A
B	3	CONNECTOR	I-PEX Connector	1		CN-0032-00-A
	4	塑膠保護套	φ 2.5*25mm	1		TB-2503-03-A
	5	鋁箔MYLAR	L24.5*W12.5*T0.075mm	1		GT-0160-00-A
	6	熱縮套管	φ 1*8mm(Red)	1		TB-1004-02-A
	7					
C	8					
	9					
	10					
D	11					
	12					
	13					
	14					
E	15					

Item	Description	Date
①		
②		
③		
④		
⑤		

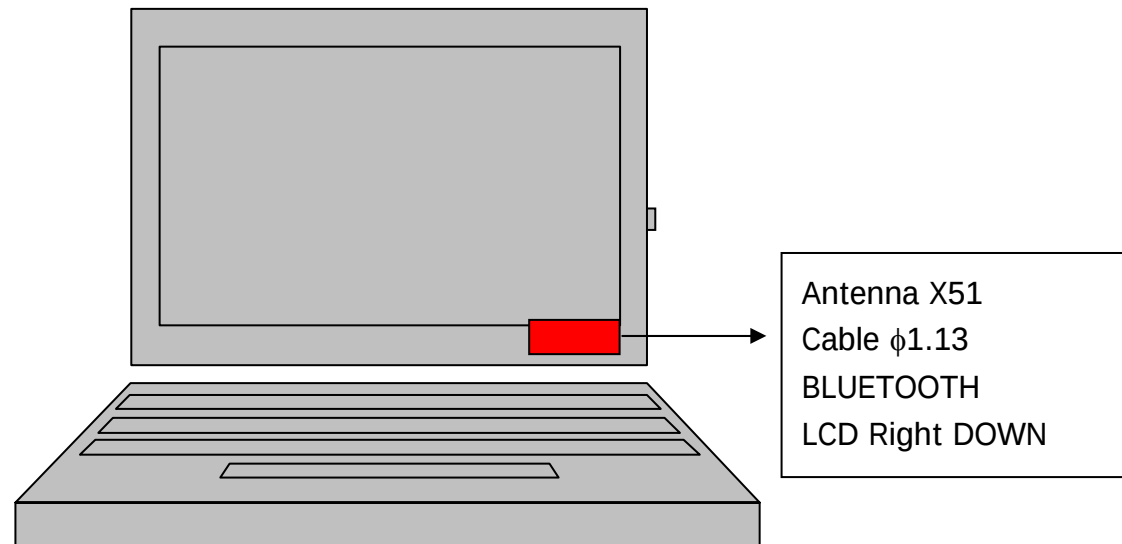
TOLERANCE				DATE	MATERIAL			精乘科技股份有限公司	
LEVER	A±	B±	C±	FEB/13/06	FINISH			WELL GREEN TECHNOLOGY CO.,LTD	
0-6	0.05	0.10	0.20	QUANTITY 1				TITLE: X51 B/T Antenna	
6-30	0.07	0.20	0.50	SCALE 1:1	APPROVAL			Part No. UWX51BLPI01A	
30-100	0.10	0.30	0.80	UNIT MM				DWG No. X51-BLU-BUW01-A	
100-300	0.20	0.50	1.20		JASON			SHEET 1 OF 1	
300-	0.30	0.80	2.00					REV A	

三、Antenna Testing Conditions:

1. Testing set up

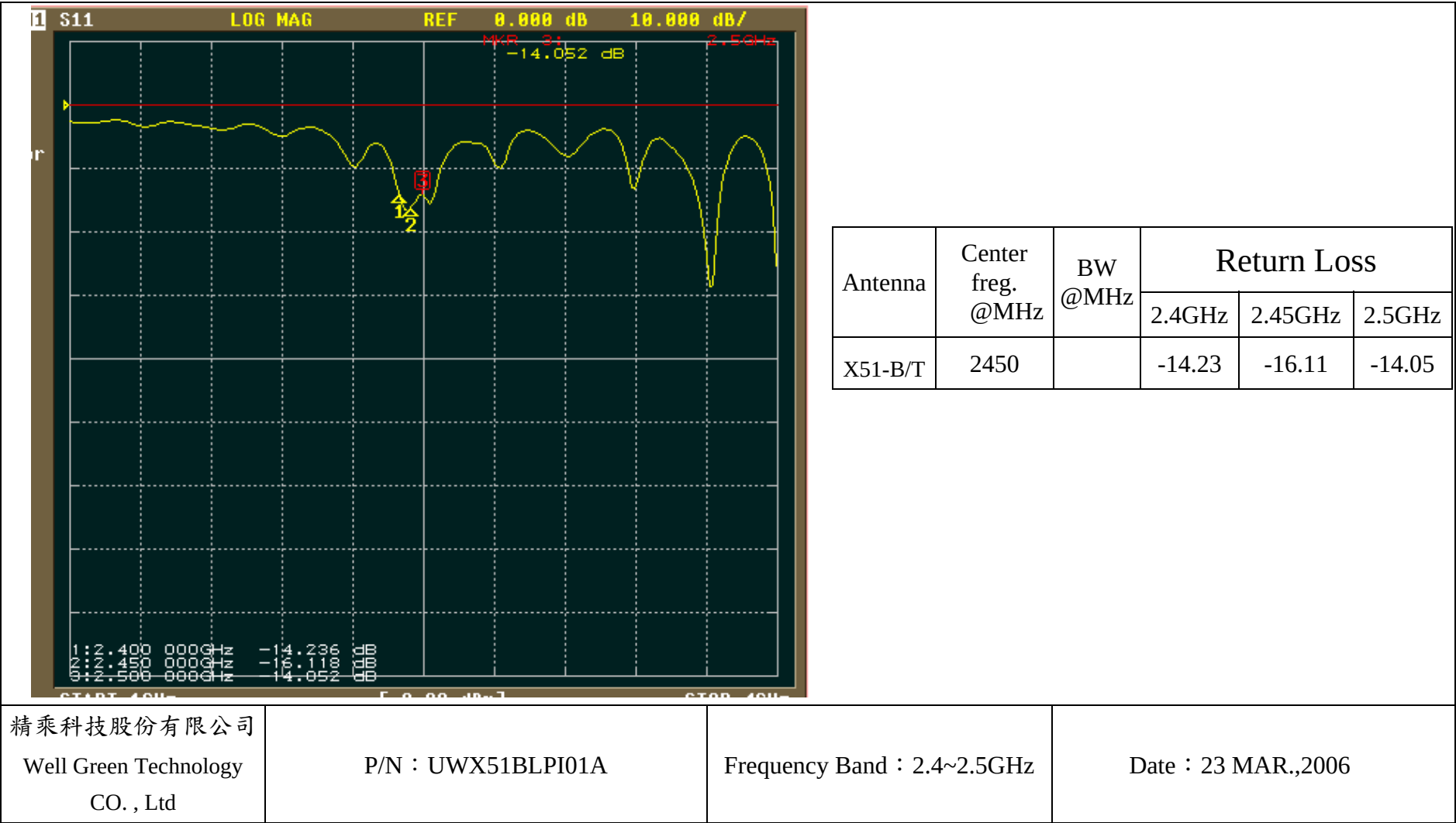


2. Mechanical dimensions

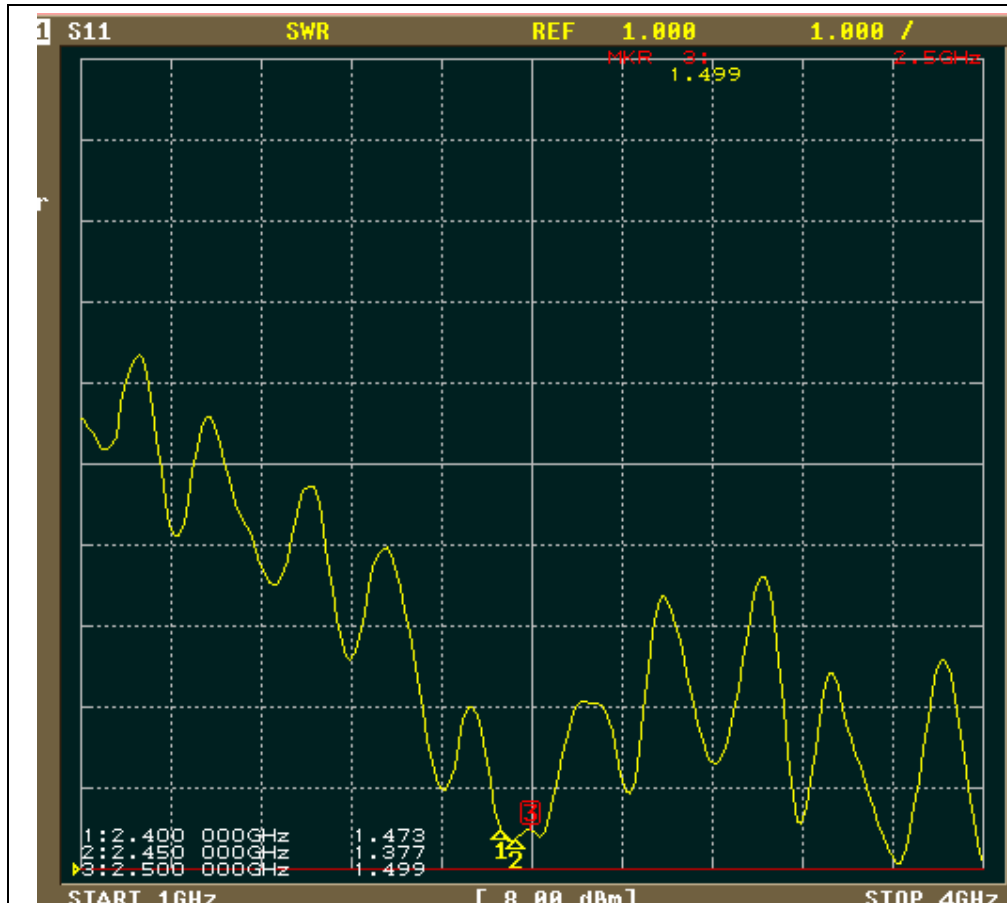


四、電氣特性 (Antenna Electricity Characteristics)

1. Return Loss



2. VSWR



Antenna	Center freq. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
X51-B/T	2450		1.47	1.37	1.49

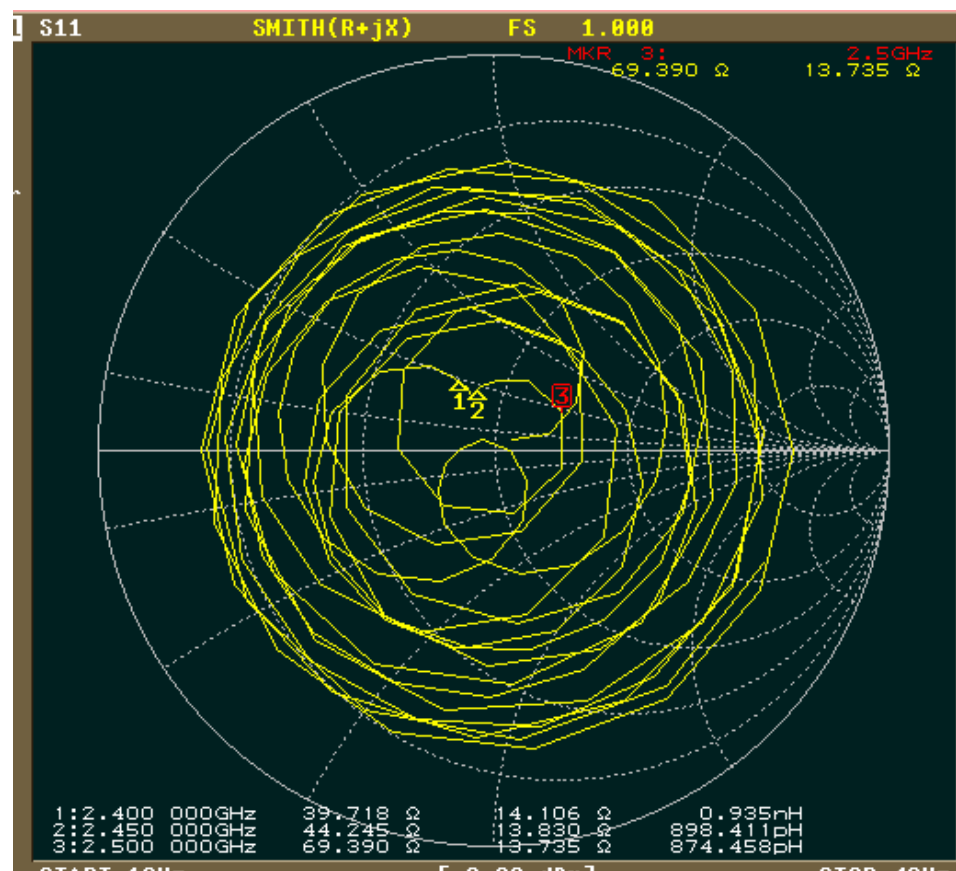
精乘科技股份有限公司
Well Green Technology
CO., Ltd

P/N : UWX51BLPI01A

Frequency Band : 2.4~2.5GHz

Date : 23 MAR.,2006

3. Smith Chart



精乘科技股份有限公司
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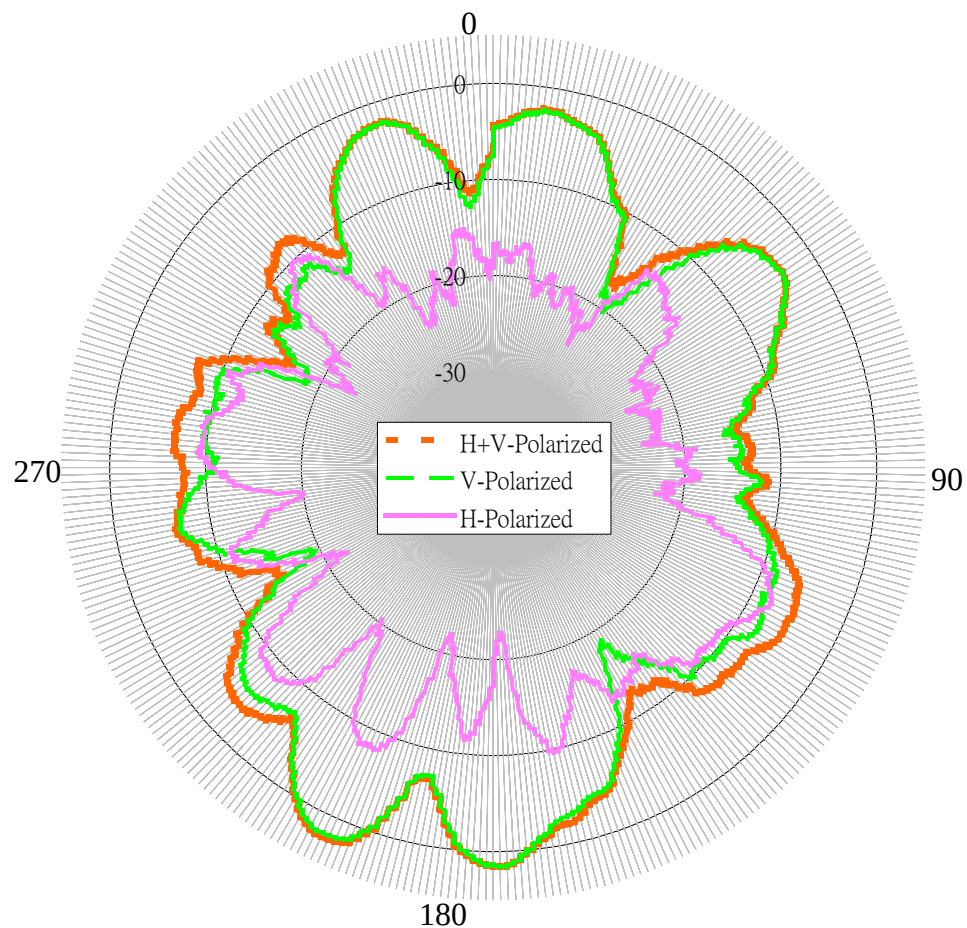
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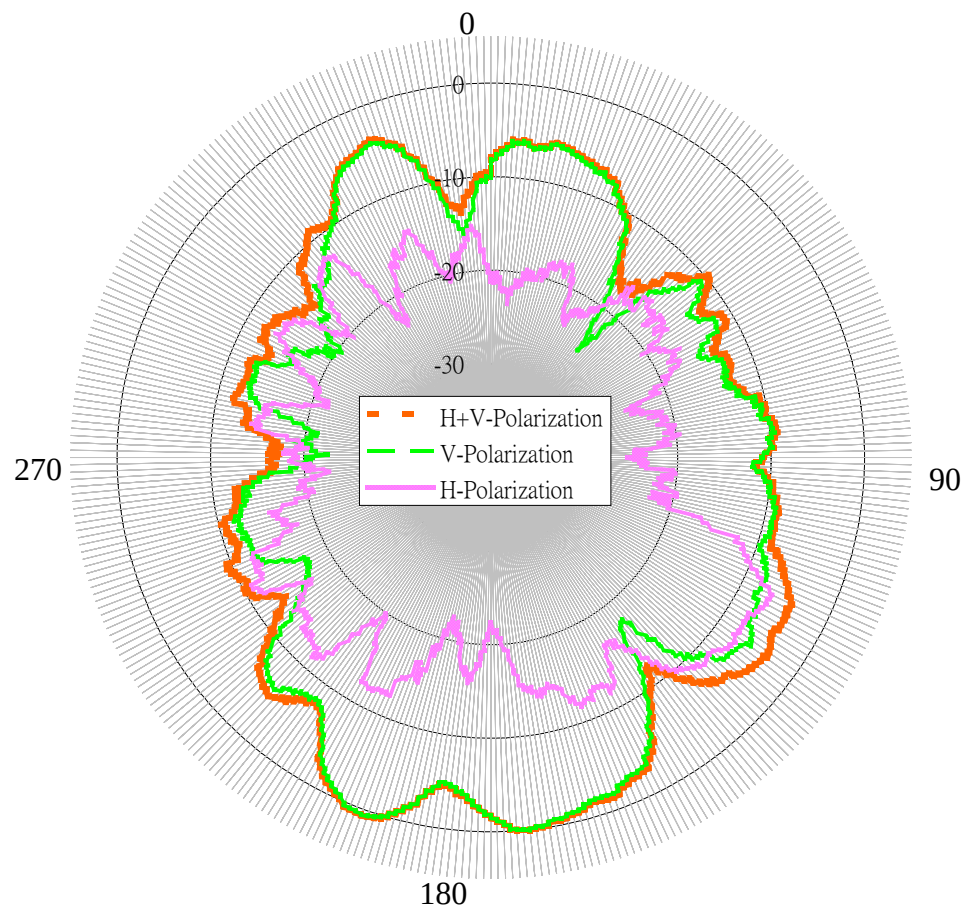
4. Radiation Pattern of XY Plane(Azimuth)-(Open)



Center Frequency	2400 MHz
Vertical peak Gain (dBi)	2.01
Vertical Average Gain (dBi)	-5.83
Vertical Min	-20.24
Horizontal peak Gain (dBi)	-7.68
Horizontal Average Gain (dBi)	-13.78
Horizontal Min	-25.00
Hori+Vert peak Gain (dBi)	2.42
Hori+Vert Average Gain (dBi)	-5.18
Hori+Vert Min	-17.53



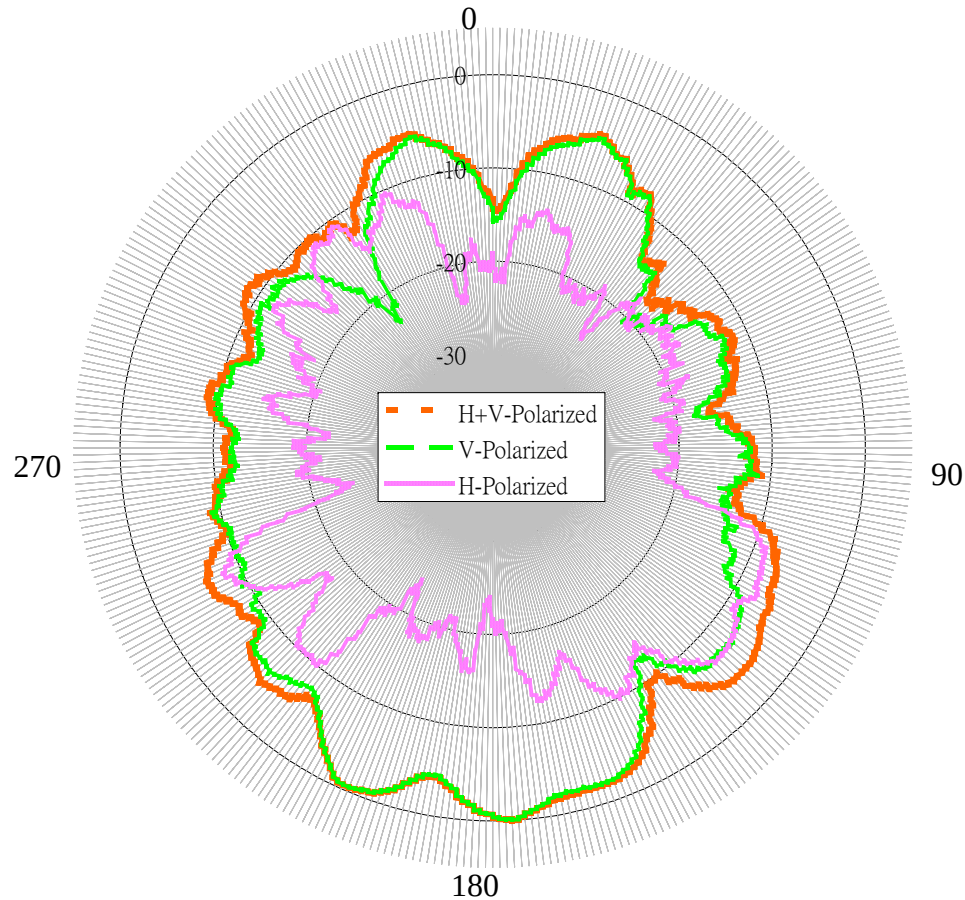
5. Radiation Pattern of XY Plane(Azimuth)-(Open)



Center Frequency	2450 MHz
Vertical peak Gain (dBi)	0.63
Vertical Average Gain (dBi)	-6.97
Vertical Min	-25.29
Horizontal peak Gain (dBi)	-6.47
Horizontal Average Gain (dBi)	-14.65
Horizontal Min	-25.40
Hor+Vert peak Gain (dBi)	0.71
Hor+Vert Average Gain (dBi)	-6.29
Hor+Vert Min	-17.61



6. Radiation Pattern of XY Plane(Azimuth)-(Open)



Center Frequency	2500 MHz
Vertical peak Gain (dBi)	-0.07
Vertical Average Gain (dBi)	-7.24
Vertical Min	-23.32
Horizontal peak Gain (dBi)	-6.81
Horizontal Average Gain (dBi)	-13.88
Horizontal Min	-25.02
Hor+Vert peak Gain (dBi)	-0.03
Hor+Vert Average Gain (dBi)	-6.39
Hor+Vert Min	-17.33

五、SPECIFICATIONS:

● Electrical Properties

Frequency Range	: 2.4~2.5GHz
Impedance	: 50Ohms nominal
VSWR	: ≤ 2.0
Peak Gain	: $-5.0\text{dBi} \leq \text{peak gain} \leq 3\text{dBi}$
Standard Connector	: I-PEX Connector