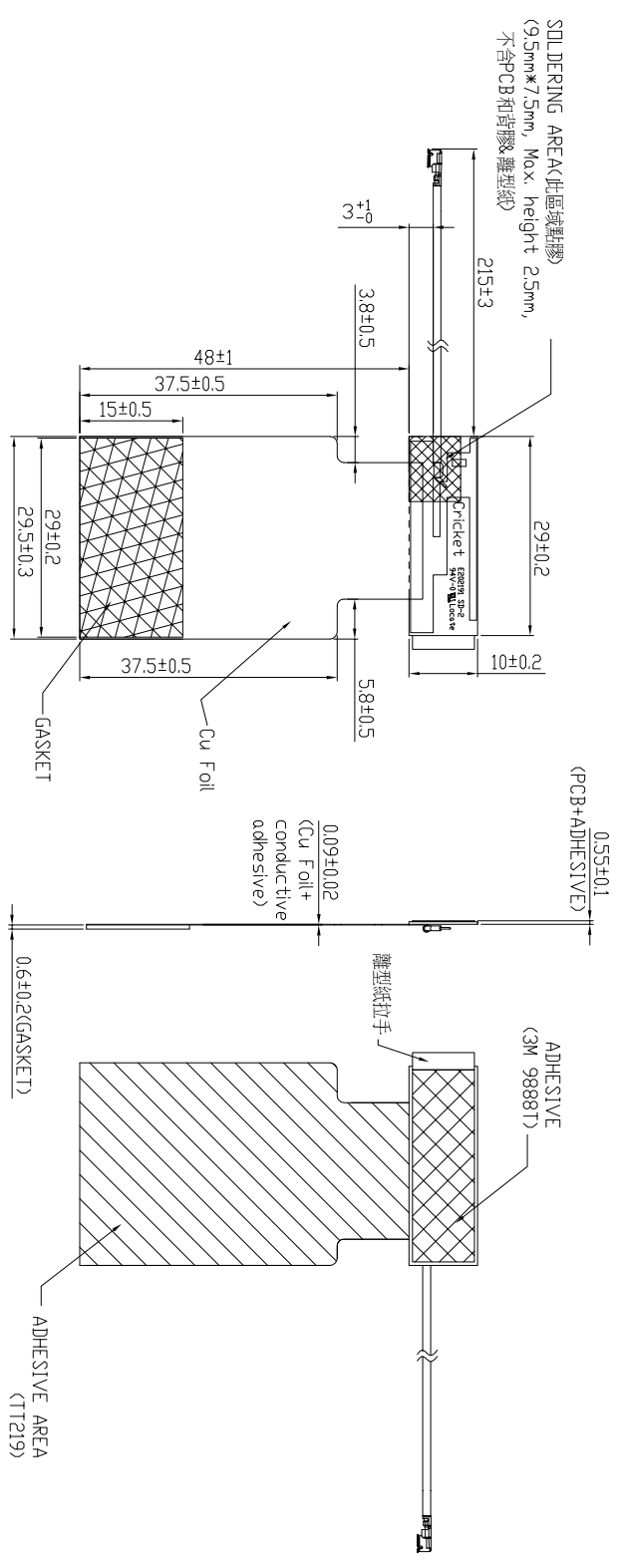


佳邦科技股份有限公司
INPAQ Technology Co., Ltd.

ADDRESS : 苗栗縣竹南鎮公義里1鄰特義街11號4樓
TEL : (037) 585-555 FAX : (037) 585-511

Rev.	Description	Date	Owner
P0	New drawing released	2014-10-21	Dberon
P1	Change Cu foil spec. and cable length	2014-11-25	Dberon
P2	Modify gasket and MARK	2015-07-08	KIMI
P3	Add P/N	2015-07-17	KIMI
P4	revise 黏膠高度	2015-08-03	April



REMARK
Cable: ϕ 13mm, color: Gray.

ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	QTY	REQD
1				1	

SPEC.	Tolerance			
	CLASS A	B	C	D
< 8mm	0.05	0.1	0.1	0.2
8-25mm	0.08	0.15	0.15	0.3
25-60mm	0.12	0.2	0.25	0.4
60-250mm	0.25	0.3	0.4	0.6
ANGLE	0.5			

CAD GENERATED DRAWING DO NOT MANUALLY UPDATE		DATE
APPROVALS	DATE	
DRAWN	NONE	
CHECKED	NONE	
RESP. ENG	NONE	
QUAL. ENG	NONE	
SCALE : 1:1	UNIT : mm	
SIZE A4	DWG. NO. XXXXXXXXXXXXX	REV. P4
CAD FILE:		SHEET 1 OF 1

INPAQ Technology Co., Ltd.
CRICKET BALL
INPAQ P/N:WA-P-LB-03-048
PEGATRON P/N:1415-04L7000

8 7 6 5 4 3 2 1



We Connect • We Protect

Antenna Evaluation Report

Customer : Pegatron

Project : cricket

Product : Wi-Fi Antenna



Prepared by : Allen Yi

Approved by : Leeting Hsieh

2014.12.25



Outline

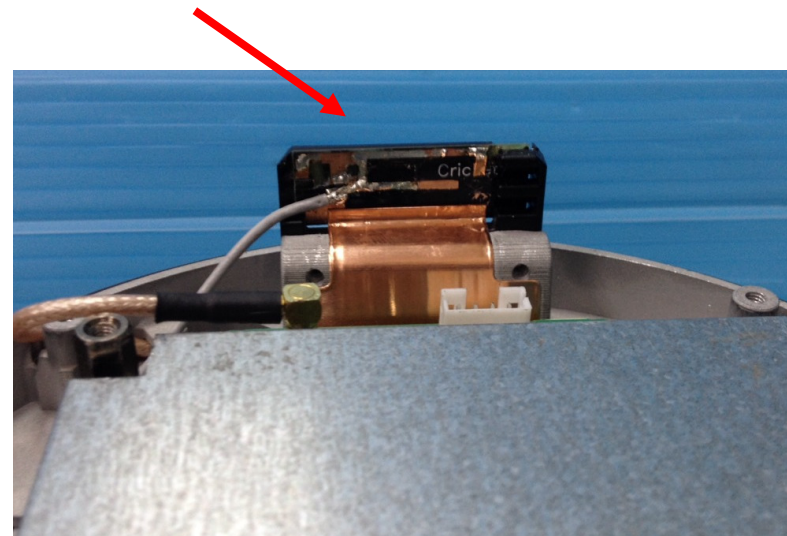
- *Antenna Overview*
- *Antenna VSWR*
- **Antenna Test Results**
 - Gain Table
 - 3D Pattern
 - 2D Pattern
- *Conclusions*



Antenna Overview



Antenna



Antenna Band	Antenna Dimension	Cable Length	Antenna Material
2400~2500MHz 5150~5850MHz	29x10x0.4mm	215mm	PCB +Cu foil



Antenna VSWR





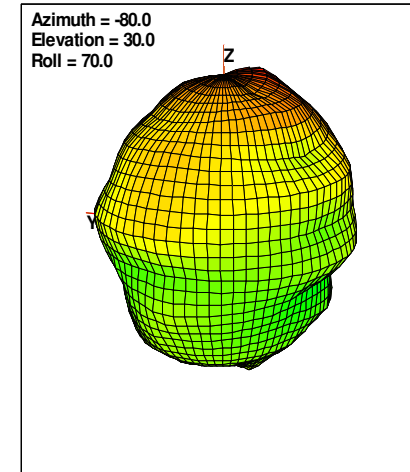
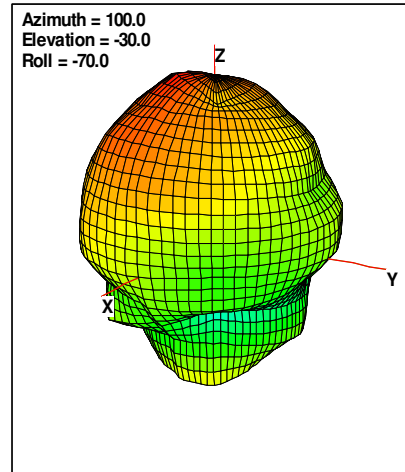
Antenna Test Results- Gain Table

Frequency MHz	Peak Gain	Efficiency	
	dBi	dBi	%
2400	5.73	-2.01	62.93
2442	6.25	-2.14	61.05
2450	6.35	-2.02	62.80
2484	6.60	-1.87	64.96
2500	6.67	-1.78	66.34
5150	2.38	-2.79	52.61
5250	1.96	-3.11	48.82
5350	2.88	-3.25	47.26
5470	2.03	-3.62	43.41
5600	3.04	-4.17	38.30
5725	1.59	-4.32	37.00
5785	2.72	-4.46	35.81
5800	3.03	-4.53	35.20
5850	2.75	-4.25	37.57

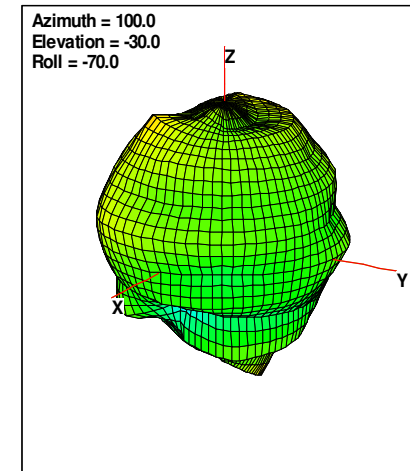
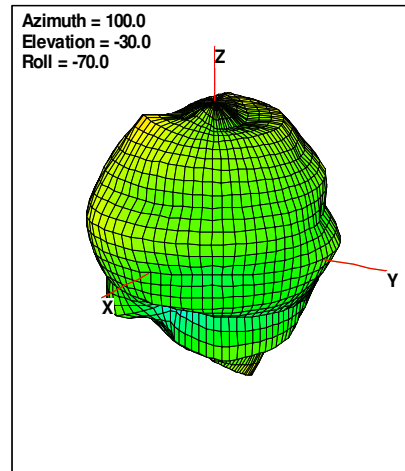


Antenna Test Results- 3D Pattern

Axis Define



2450MHz

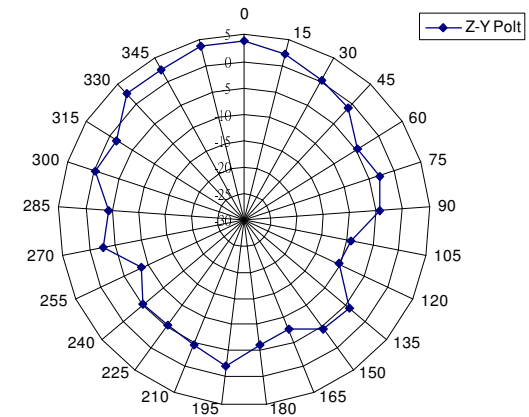
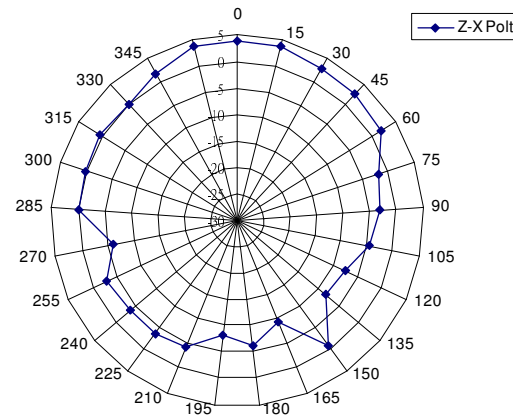
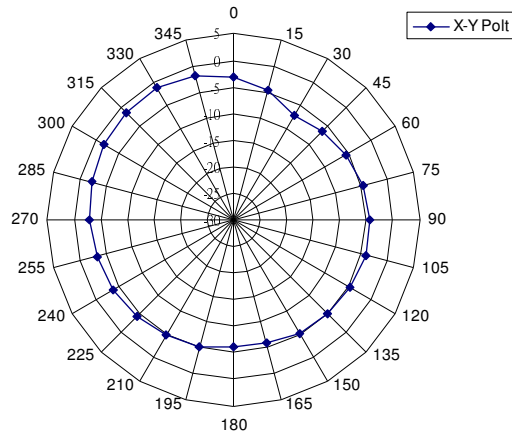


5470MHz

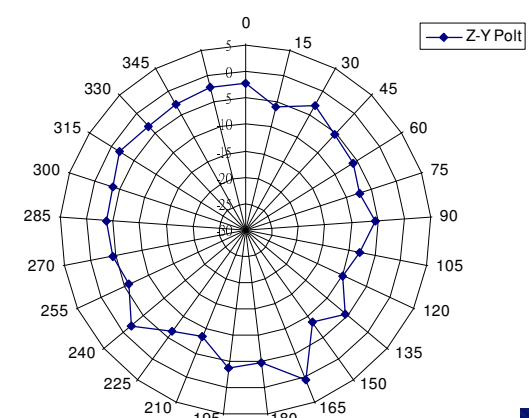
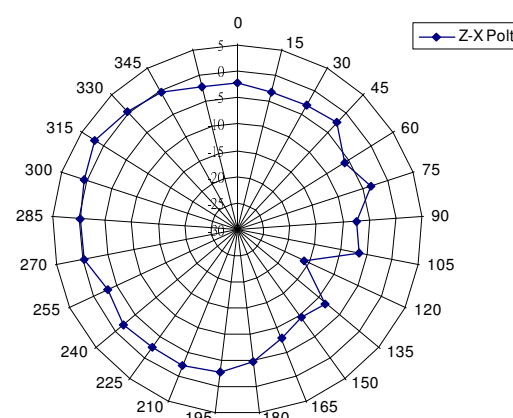
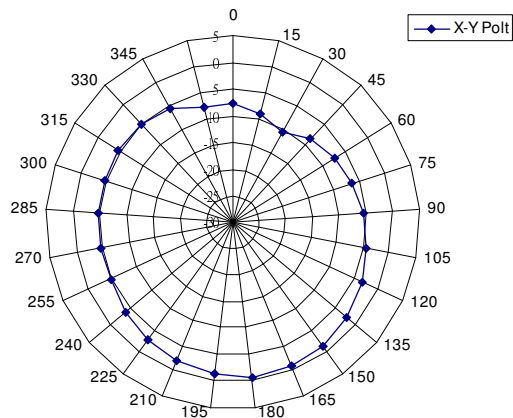


Antenna Test Results- 2D Pattern

Frequency:2450MHz



Frequency:5470MHz





Conclusions






- ◆ According to the test results, antenna efficiency are 61~66% and 35~52% at 2400~2500MHz and 5150~5850MHz.

Frequency MHz	Peak Gain dBi	Efficiency	
		dBi	%
2400	5.73	-2.01	62.93
2442	6.25	-2.14	61.05
2450	6.35	-2.02	62.80
2484	6.60	-1.87	64.96
2500	6.67	-1.78	66.34
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5250	1.96	-3.11	48.82
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5725	1.59	-4.32	37.00
5785	2.72	-4.46	35.81
5800	3.03	-4.53	35.20
5850	2.75	-4.25	37.57

1. R580 WiFi+BT antenna photo



2. Laird WiFi+BT antenna photos

	Order Number	Description
	001-0001	2.4 GHz dipole antenna with reverse polarity SMA connector
	080-0001	U.FL to reverse polarity SMA bulkhead cable 105 mm
	001-0014	2.4 GHz FlexPIFA antenna
	001-0015	2.4 GHz FlexNotch antenna
	001-0030	2.4 GHz Metal FlexPIFA antenna with U.FL cable, 100 mm