

SPECIFICATION FOR APPROVAL

CUSTOMER: Konica Minolta, Inc

CUSTOMER P/N : A8CE780101B

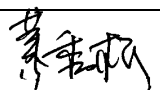
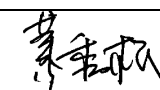
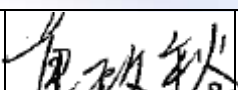
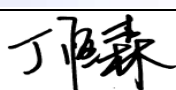
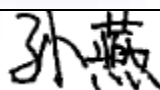
MODEL NAME: G-ANTENNA1

ACON P/N: AEP8P-100000

Customer Approval

R&D Manager

ACON Approved

				
R&D Manager / Shawke.Hsiao	Mechanical Manager / Shawke.Hsiao	Q&R Manager / Fish Tong	Project Engineer / Hengsen.Ding	Product Manager / Yan.sun



FAX : 886-2-8913-2538

Http : //www.acon.com

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kapton tape

1. Description

1.1 Specifications

Antennas Type	PIFA Antenna for WLAN 802.11a/b/g/n application
Connector Type	1.37 IPEX 20351-112R-37
Cable Type	OD 1.37 RF Cable
Weigth	2.5g
Impedance	50Ω Typ
Polarization	Linear
Radiation pattern	Omni-directional
VSWR	2.4~2.484GHz, 2.5Max 5.15~5.85GHz, 3.0Max
Cable length	174mm, Black (The cable length in from the edge of PCB board to the connector)
Operating temperature	0~60°C (20~90%RH)
Storage temperature	-20~80°C (5~95%RH)
maximum permissible power	50mW

1.2 Antenna Picture



G-ANTENNA1 P/N: AEP8P-100000

***天線功能較為敏感，主體周邊機構有變更請通知我們評估**

Antenna function is very sensitive , any changes arround of antenna , please inform us to evaluation

***PCB OSP、銅箔表面氧化（黑斑）是正常現象，并不影響功能特性**

Surface oxidation (or black Spot) ia a normal phenomenon of the PCB(OSP) and Cu Foil, It won't affect the antenna function

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2. Electrical Specification

2.1 Test Equipment

- A. VSWR and input impedance: Agilent 8720/8753 Network Analyzer
- B. Antenna gain and efficiency: ETS three-dimensional anechoic chamber

2.2 Test Setup

2.2.1 Frequency Range

- A. WLAN 802.11a: 2.4~2.484 GHz
- B. WLAN 802.11 a 5.15~5.85 GHz

2.2.2 VSWR

Step 1: The antenna is arranged on the customer provided test fixture.

Step 2: The VSWR of the antenna is measured via Agilent 8720/8753 Network Analyzer (see figure. 1).



Figure.1

2.2.3 Radiation pattern and Gain

- A. The 3D chamber provides less than -40dB reflectivity from 800MHz to 6GHz and a 40cm diameter spherical quiet zone. The measurement results are calibrated using both dipoles and standard gain horns (see figure. 3).
- B. The antenna under tested is arranged in the turned table and a decoupling sleeve is used to reduce feed line radiation (see figure. 4).
- C. The measured results of the radiation patterns and antenna gain are obtained from the control system and showed on the monitor (see figure. 5 and 6).

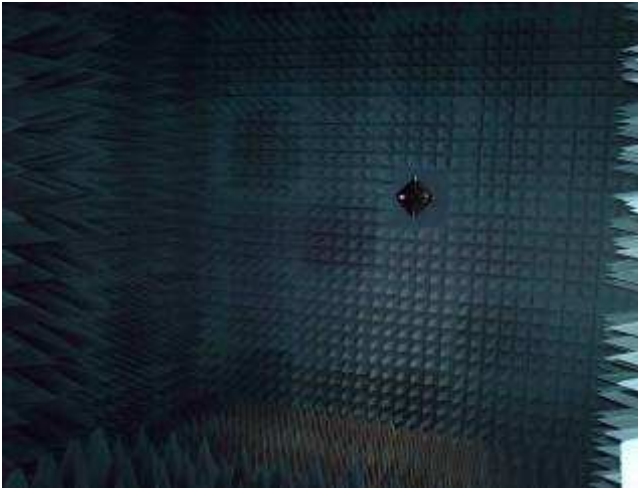


Figure. 3

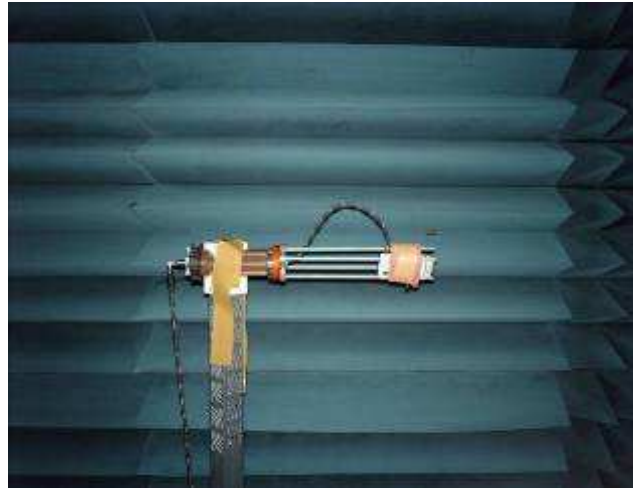


Figure. 4



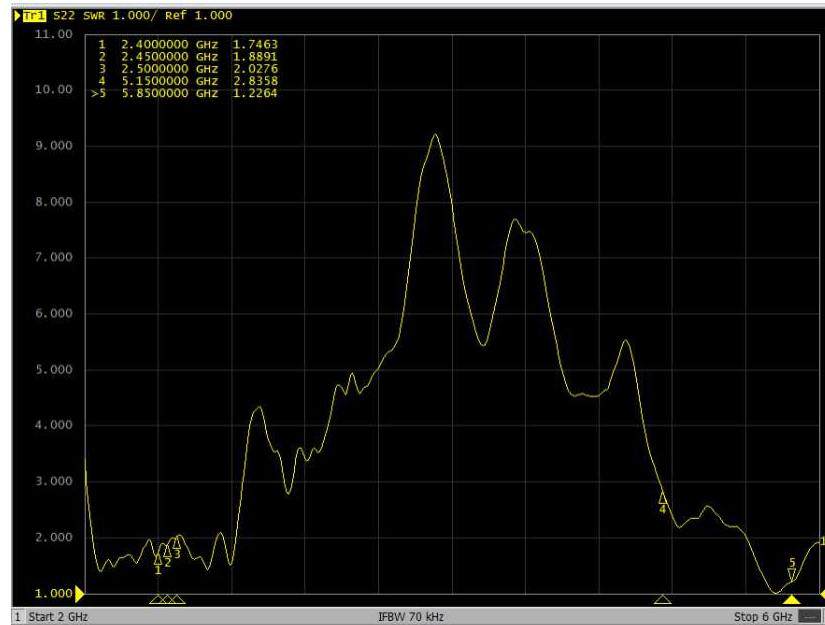
Figure. 5



Figure. 6

3. Performance Data

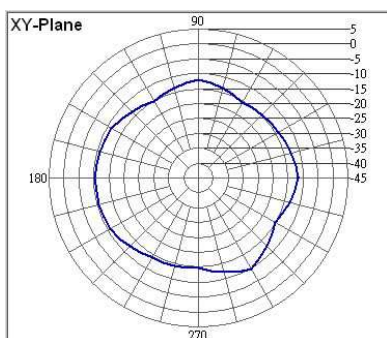
3.1 VSWR



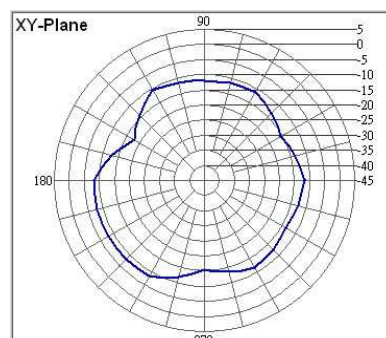
G-ANTENNA1

3.2 Radiation pattern

3.2.1 G-ANTENNA1



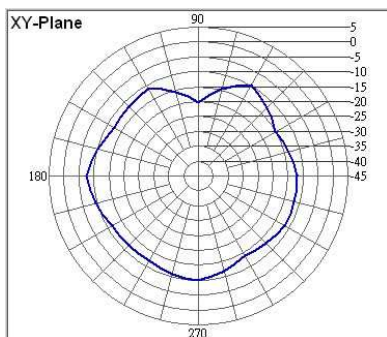
dBi	XY-Plane
H-Pol.(Peak.)	-12.08
V-Pol.(Peak.)	-11.08
H+V.(Peak.)	-9.75
H-Pol.(Avg.)	-16.67
V-Pol.(Avg.)	-14.54
H+V.(Avg.)	-12.47



dBi	XY-Plane
H-Pol.(Peak.)	-12.60
V-Pol.(Peak.)	-9.18
H+V.(Peak.)	-7.96
H-Pol.(Avg.)	-16.80
V-Pol. (Avg.)	-12.50
H+V. (Avg.)	-11.12

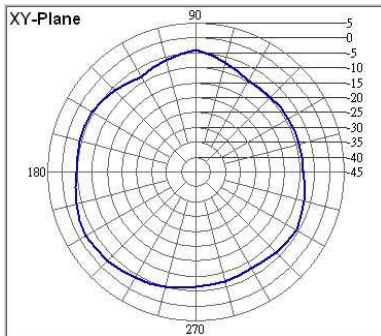
2400 MHz

2442 MHz



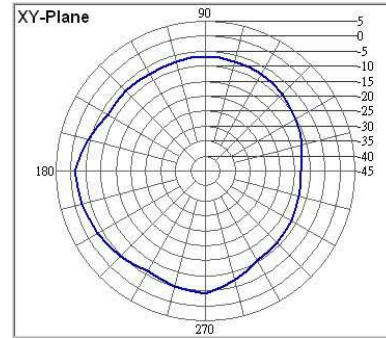
dBi	XY-Plane
H-Pol.(Peak.)	-14.42
V-Pol.(Peak.)	-8.06
H+V.(Peak.)	-7.58
H-Pol.(Avg.)	-18.16
V-Pol. (Avg.)	-12.52
H+V. (Avg.)	-11.47

2500 MHz



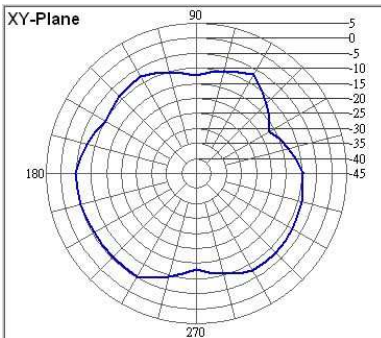
dBi	XY-Plane
H-Pol.(Peak.)	-2.62
V-Pol.(Peak.)	-7.04
H+V. (Peak.)	-2.06
H-Pol.(Avg.)	-6.73
V-Pol. (Avg.)	-12.04
H+V. (Avg.)	-5.61

5150 MHz



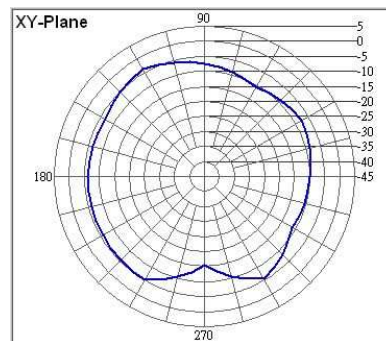
dBi	XY-Plane
H-Pol.(Peak.)	-8.77
V-Pol.(Peak.)	-2.19
H+V.(Peak.)	-1.35
H-Pol.(Avg.)	-11.96
V-Pol.(Avg.)	-7.57
H+V. (Avg.)	-6.22

5350 MHz



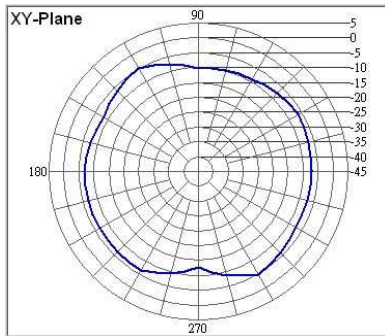
dBi	XY-Plane
H-Pol.(Peak.)	-7.66
V-Pol.(Peak.)	-6.00
H+V.(Peak.)	-4.76
H-Pol.(Avg.)	-11.16
V-Pol. (Avg.)	-10.74
H+V. (Avg.)	-7.93

5470 MHz



dBi	XY-Plane
H-Pol.(Peak.)	-6.83
V-Pol.(Peak.)	-5.56
H+V.(Peak.)	-3.77
H-Pol.(Avg.)	-10.06
V-Pol. (Avg.)	-10.21
H+V. (Avg.)	-7.12

5725 MHz

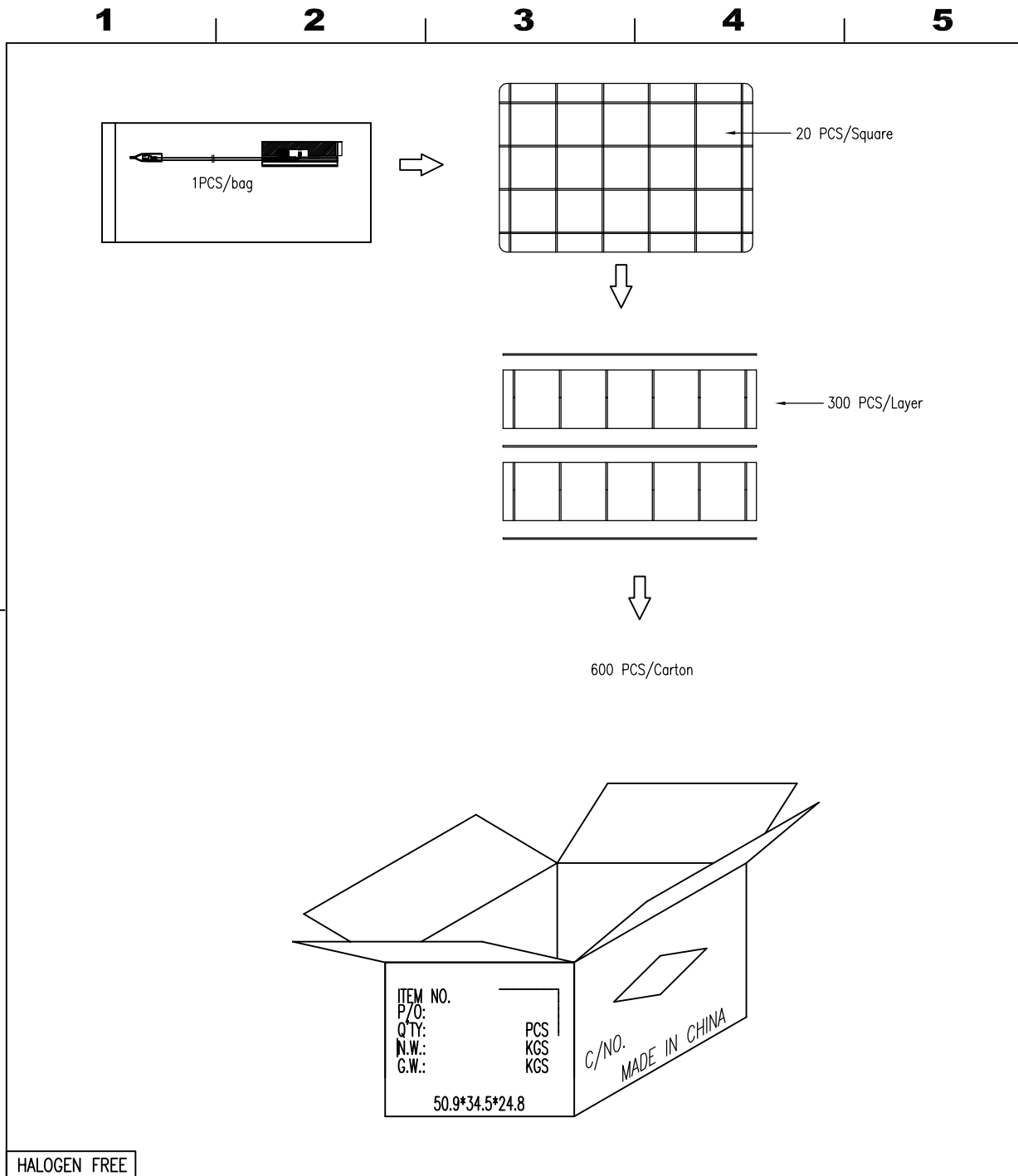


dBi	XY-Plane
H-Pol.(Peak.)	-6.71
V-Pol.(Peak.)	-6.65
H+V.(Peak.)	-4.71
H-Pol.(Avg.)	-10.40
V-Pol. (Avg.)	-9.98
H+V. (Avg.)	-7.17

5875 MHz

3.3 Gain

Frequency(MHz)	Efficiency(dBi)	Efficiency(%)
2400	-8.97	12.67
2442	-9.39	11.51
2500	-9.89	10.24
5150	-7.85	16.41
5350	-8.49	14.13
5470	-7.09	19.53
5725	-7.16	19.23
5875	-7.32	18.51



Rev.	EC#	Description	Drawn/Date	Checked/Date	Approved/Date
A		NEW RELEASE	hongsui 07/07/16'	King	White

- NOTES
1. PACKAGING P/N SEE TABLE A
 2. PACKAGING QUANTITY & N.W & G.W REFER TABLE B
 3. THERE ARE 2 LAYER IN A BOX

P-SE-CF304
5隔板,4插槽x6插槽_隔板组(327x491)(1pcs/bag,1800pcs/箱)

TABLE A :

PART NAME	P/N	PCS
OUTER BOX	P-BO-0895D00	1
隔板 6插槽	P-B-060057516	8
隔板 4插槽	P-B-061057511	12
隔板	P-B-045053100	3
PE袋	P-PE-B0250090000	600

Table B :

Part Number	Pcs/Layer	Layer/Carton	Pcs/Carton	N.W(kgs)	G.W(kgs)
AEP8P-100000	300	2	600		
AEP8P-100001	300	2	600		

Tolerances Unless Otherwise Specified General Angles Scale Sheet Unit	Drawn Hongsui	Date 07/07/16'
	Design Hongsui	Date 07/07/16'
	Checked King	Date
	Approved White	Date
	3D File	
30 File		
Title		
Series		AEP8P
Series		
Size		A3
Rev.		X1

HALOGEN FREE

Revision

Revision	Date	Change Notification	Notes
Rev.0	2016-07-08	--	WSFA160145-KS
Rev.1	2016-10-07	Update bom	WSFA160145-KS
Rev.2	2016-10-18	增加 maximum permissible power 50mW	WSFA160145-KS
Rev.3	2016-12-02	增加 kapton tape	WSFA160145-KS
Rev.4	2017-07-20	Update CUSTOMER P/N	WSFA160145-KS



富邦 胶带

tape Technology, Inc.

Polyimide Film Tape

FUBANG NO. FK03

技术参数

FUBANG TAPE

产品描述 在Polyimide Film<聚酰亚胺薄膜>的单面上均匀地涂抹硅胶粘着剂,涂抹面卷在内侧,在直径大约76mm的卷芯上缠绕,厚度和宽度均等,并附有粘性,耐热性和耐久性。

产品构造	基材	基材厚度	胶带厚度	粘合剂	标准每卷长度
	Polyimide薄膜	75um	110um	硅胶	33M

胶带的构造如图



← 基材: Polyimide Film

← 粘合剂: Silicone

产品性能

说明: 下列的技术信息和数据仅表现试验数据,不被用于规格说明目的。

		Test方法
粘着力:	≥ 5N/25mm	GB/T 2792-1998
拉力强度:	≥ 220 N/25mm	GB/T 7753-1987
伸长率:	≥ 45%	GB/T 7753-1987
基材厚度:	0.075mm	GB/T 7125-1999
Tape厚度:	0.11mm	GB/T 7125-1999
温度使用范围:	-100°F to 500°F (-73°C to 260°C)	GB/T 7125-1999
耐电压:	≥ 7KV	GB/T 14517-1993

普遍信息

- 在常温下Polyimide薄膜耐温性和绝缘性更佳,当温度增加或减少时, Polyimide薄膜不会受到任何的影响变化。
- Polyimide薄膜不会在温度提高的情况下变柔软, 如此,薄膜在提高的温度下,更能显示出性能超越的表现出来。

有效期限

获得最好的表现, 于室内环境温度25°C 相对湿度65%可以保存12个月。

应用范围

- 电子线路板波峰焊锡遮蔽,保护金手指和高档电器绝缘,马达变压器绝缘,以及锂电池正负极耳保护应用。
- 在制造零件中发挥表面被在提高的温度方面较好。

特征

特性	优势	好处
Polyimide Film Tape	在尺寸和温度方面有保障	更高生产力通过减少重新做
硅胶粘合剂	高温表现减少有粘性转移	保护表面帮助降低替换成
本 高粘性胶带	减少有粘性转移	帮助总加生产力

The physical characteristics contained in this information represent typical or average values and they do not represent any warranties or guarantees. They must not be used for technical specification purpose. Please consult out Technical Department for specific advice. (2002.10.10)

FUBANG Tape Technology, Inc.

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Tape Innovation
Adhesive Innovation
Application Innovation

Tel: +86-0512-52557505

FUBANG Tape is Green Tape.

www.fbtape.com

成品检验报告

Finished Goods Inspection Report

抽样依据: ANSI/ASQC Standard Z1.4(Ⅱ级) MA: MI:

日期: 年 月

品名 P/N		单号 Sheet No.		批量 Lot Qty					
制造者 Manufacturer		文件编号 DocumentNo		AC/RE Accept / Reject		MA		MI	
客户 Customer		版本Edition							
一、外观目视 Cosmetic inspection		抽验数 Samples		不良数 Defect		MA		MI	
项目 Item	OK	NG	实际状况 Actual Condition		项目 Item	OK	NG	实际状况 Actual Condition	
1.端子 Terminal			A变形;Bキズ;Cメッキ不良; D汚 れ;E錆.		6.包装方式 Packing			A員数不足;B数量NG;C箱潰れ;D梱包不良; E梱包漏れ.	
2.胶芯 Housing			Aショート;B穴;Cバリ;D欠け;E気 泡;F割れ;G色さ;H汚れ.		7.标示情形 Mark			A印字不良;Bラベル漏れ;C現品票記載問題.	
3.铁壳 case			A变形;Bキズ;Cメッキ不良; D 汚れ;E錆.		8.线材外观 Appearance Of Wire			A配線ずれ;B外皮破れ;C汚れ. D印字不良.	
4.五金配件 Hardware			Aパーツ漏れ;Bパーツ不良.		9.胶带外观 Appearance Of Tape			Aテープ破損;B汚れ;Cバリ.	
5.组装状况 Assembly			A断線;B位置ズレ;C位置逆さ;D パーツ漏れ.		10.成型 Molding			Aショート;B成形不良;Cバリ;D欠け;E汚れ; F気泡;G色差 色差	
二、尺寸量測 Dimension Measurement		抽验数 Samples		不良数 Defects		MA:			
标准尺寸 Dimension spec	实际尺寸 Actual Dimension					判定 Confirmation			
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5				
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
三、电气功能测试 Electrical functional tests (Conduction、Insulation resistance、Dielectric voltage)			规格 Spec	抽验数 Samples		CR=0	OK	NG	判定 Confirmation
四、功能检验: Function inspection			抽验数 Samples	不良数 Defects			MA		
项目 (Item)	规格 Spec	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	OK	NG	实际状况 Actual Condition
1.试板 Test board									
2.平整度 Coplanarity									
3.扭力 Torque Force									
4.螺丝锁紧 Trial Screw Lock									
5.特性阻抗 Characteristic impedance									
6.对插 Mating and Unmating									
7.实物组装 Object Assembly									
8.焊锡性测试 Solderability test									
9.ICP/XRF/SGS测试									
10.GP标签 (label)批号:									
五、最终判定		☐ 允收(ACC.) ☐ 拒收(REJ.) ☐ 特采(AOD.)							
备注:									

第一联 白 存 根

第二联 浅 蓝 客 户

审核Checked By :

检验 Inspector:

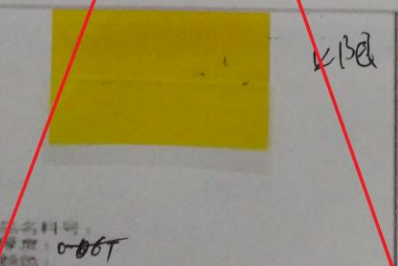
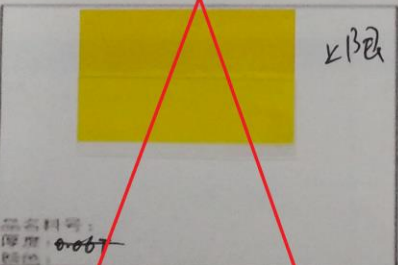
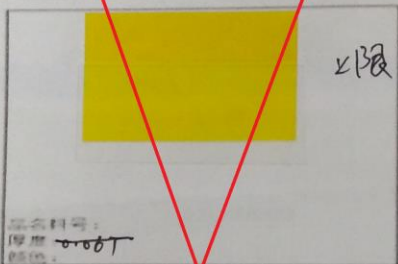
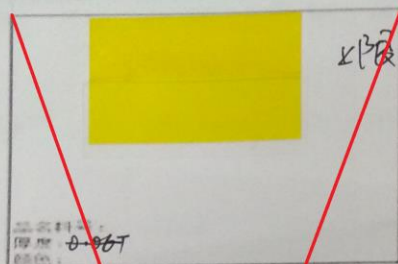
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カプトンテープ限度見本

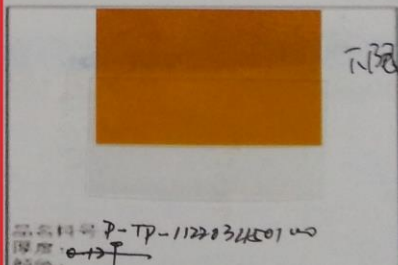
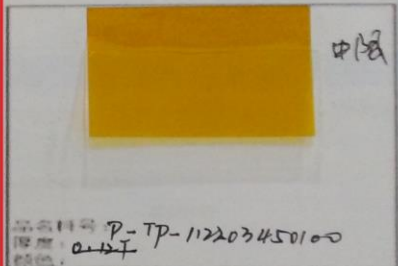
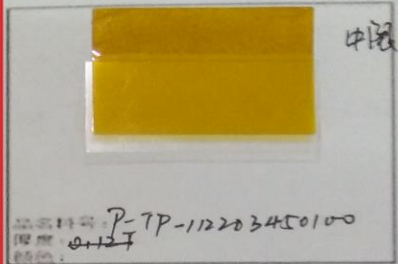
Product Catalog

品番：P-TP-112203450100

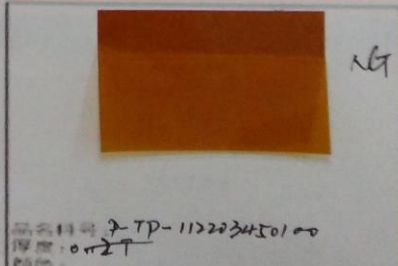
色 卡



OK



NG



TEL: +86-512-50103666

江苏省昆山市淀山湖镇新兴路19号

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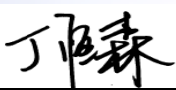
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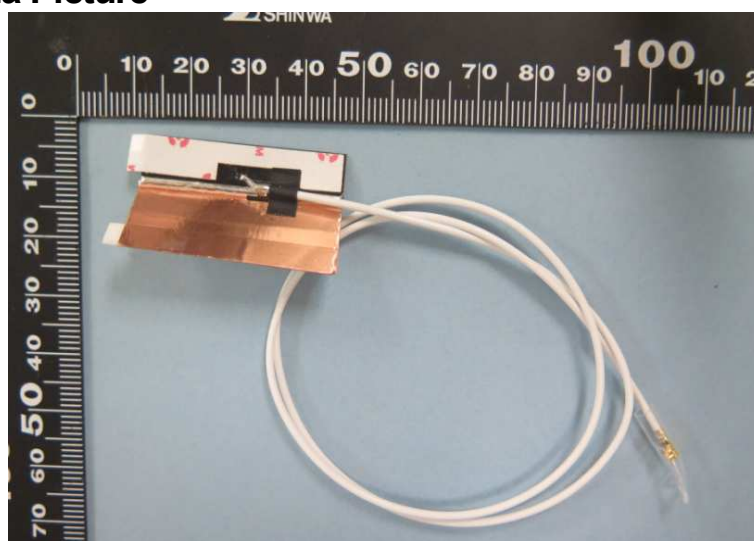
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1. Description

1.1 Specifications

Antennas Type	PIFA Antenna for WLAN 802.11a/b/g/n application
Connector Type	1.37 IPEX 20351-112R-37
Cable Type	OD 1.37 RF Cable
Weigth	3g
Impedance	50Ω Typ
Polarization	Linear
Radiation pattern	Omni-directional
VSWR	2.4~2.484GHz,2.5Max 5.15~5.85GHz,3.0Max
Cable length	428mm,White(The cable length in from the edge of PCB board to the connector)
Operating temperature	0~60℃ (20~90%RH)
Storage temperature	-20~80℃ (5~95%RH)
maximum permissible power	50mW

1.2 Antenna Picture



G-ANTENNA2 P/N: AEP8P-100001

***天線功能較為敏感，主體周邊機構有變更請通知我們評估**

Antenna function is very sensitive , any changes arround of antenna , please inform us to evaluation

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- B. Antenna gain and efficiency: ETS three-dimensional anechoic chamber

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2.2.1 Frequency Range

- A. WLAN 802.11a: 2.4~2.484 GHz
- B. WLAN 802.11 a 5.15~5.85 GHz

2.2.2 VSWR

Step 1: The antenna is arranged on the customer provided test fixture.

Step 2: The VSWR of the antenna is measured via Agilent 8720/8753 Network Analyzer (see figure. 1).



Figure.1

2.2.3 Radiation pattern and Gain

- A. The 3D chamber provides less than -40dB reflectivity from 800MHz to 6GHz and a 40cm diameter spherical quiet zone. The measurement results are calibrated using both dipoles and standard gain horns (see figure. 3).
- B. The antenna under tested is arranged in the turned table and a decoupling sleeve is used to reduce feed line radiation (see figure. 4).
- C. The measured results of the radiation patterns and antenna gain are obtained from the control system and showed on the monitor (see figure. 5 and 6).

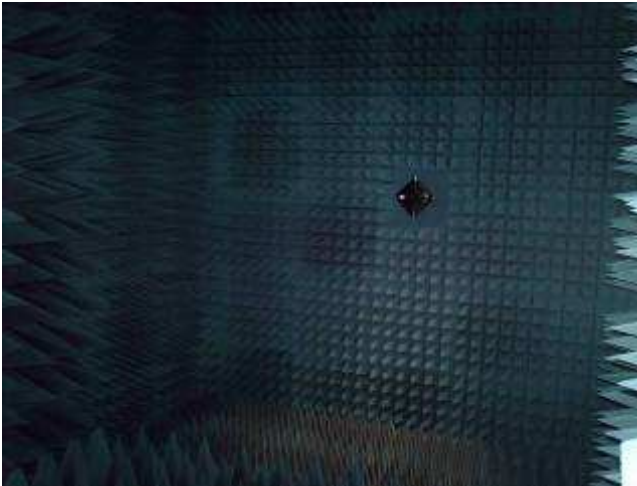


Figure. 3

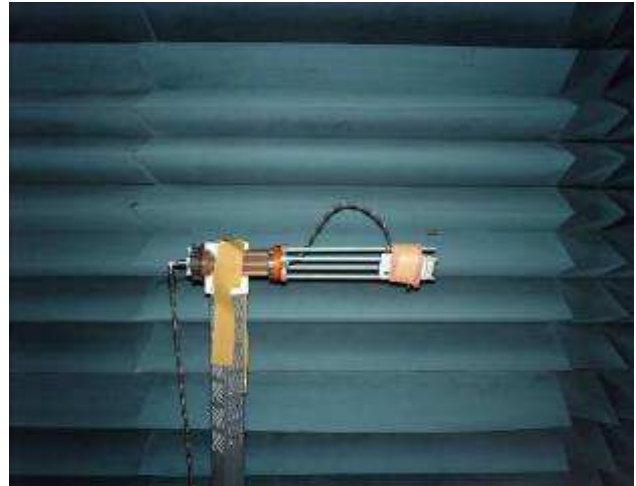


Figure. 4



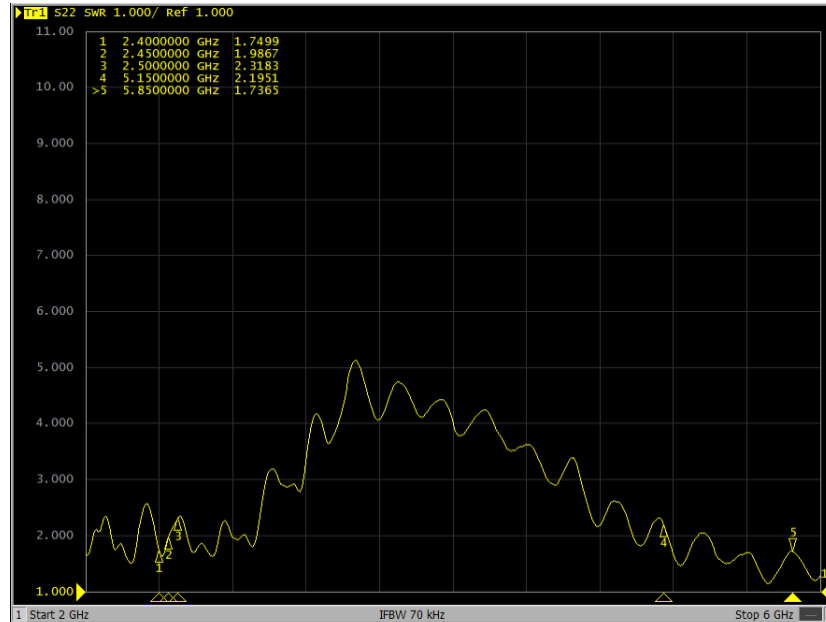
Figure. 5



Figure. 6

3. Performance Data

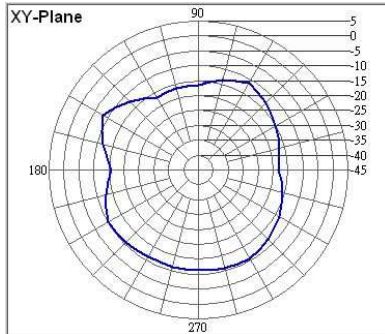
3.1 VSWR



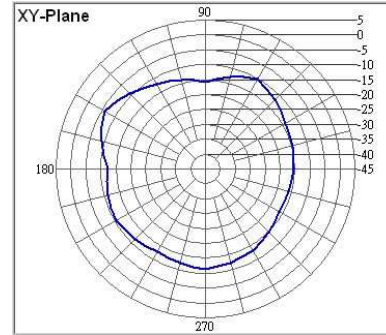
G-ANTENNA2

3.2 Radiation pattern

3.2.1 G-ANTENNA2



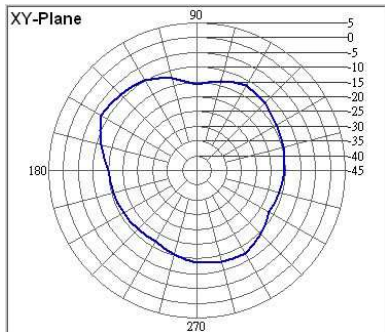
dBi	XY-Plane
H-Pol.(Peak.)	-10.92
V-Pol.(Peak.)	-10.02
H+V.(Peak.)	-8.23
H-Pol.(Avg.)	-14.66
V-Pol.(Avg.)	-16.01
H+V.(Avg.)	-12.27



dBi	XY-Plane
H-Pol.(Peak.)	-9.66
V-Pol.(Peak.)	-8.50
H+V.(Peak.)	-6.03
H-Pol.(Avg.)	-13.90
V-Pol.(Avg.)	-15.40
H+V.(Avg.)	-11.57

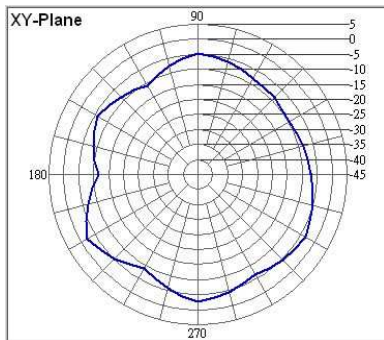
2400 MHz

2442 MHz



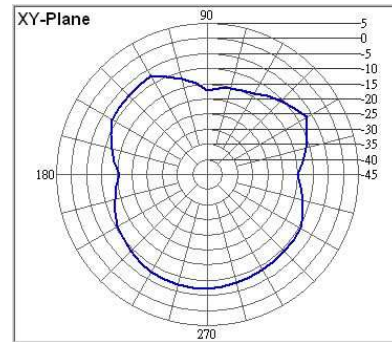
dBi	XY-Plane
H-Pol.(Peak.)	-10.27
V-Pol.(Peak.)	-10.08
H+V.(Peak.)	-7.73
H-Pol.(Avg.)	-15.74
V-Pol.(Avg.)	-15.90
H+V.(Avg.)	-12.80

2500 MHz



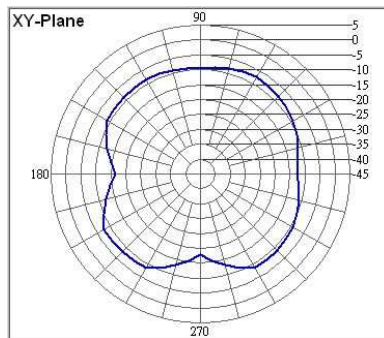
dBi	XY-Plane
H-Pol.(Peak.)	-2.63
V-Pol.(Peak.)	-8.38
H+V.(Peak.)	-1.95
H-Pol.(Avg.)	-6.65
V-Pol.(Avg.)	-12.79
H+V.(Avg.)	-5.70

5150 MHz



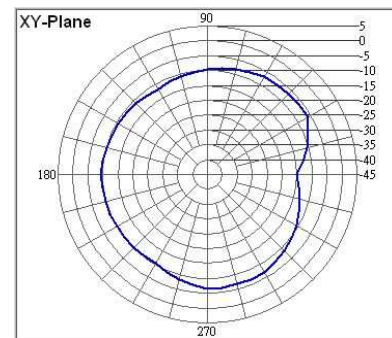
dBi	XY-Plane
H-Pol.(Peak.)	-7.57
V-Pol.(Peak.)	-7.69
H+V.(Peak.)	-7.08
H-Pol.(Avg.)	-11.78
V-Pol.(Avg.)	-13.54
H+V.(Avg.)	-9.56

5350 MHz



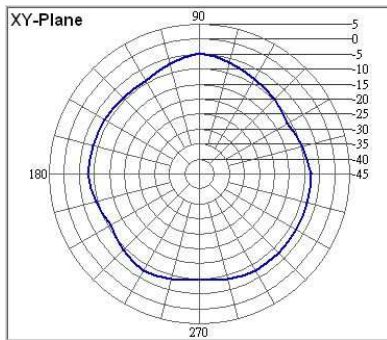
dBi	XY-Plane
H-Pol.(Peak.)	-7.56
V-Pol.(Peak.)	-9.75
H+V.(Peak.)	-7.18
H-Pol.(Avg.)	-11.31
V-Pol.(Avg.)	-14.15
H+V. (Avg.)	-9.49

5470 MHz



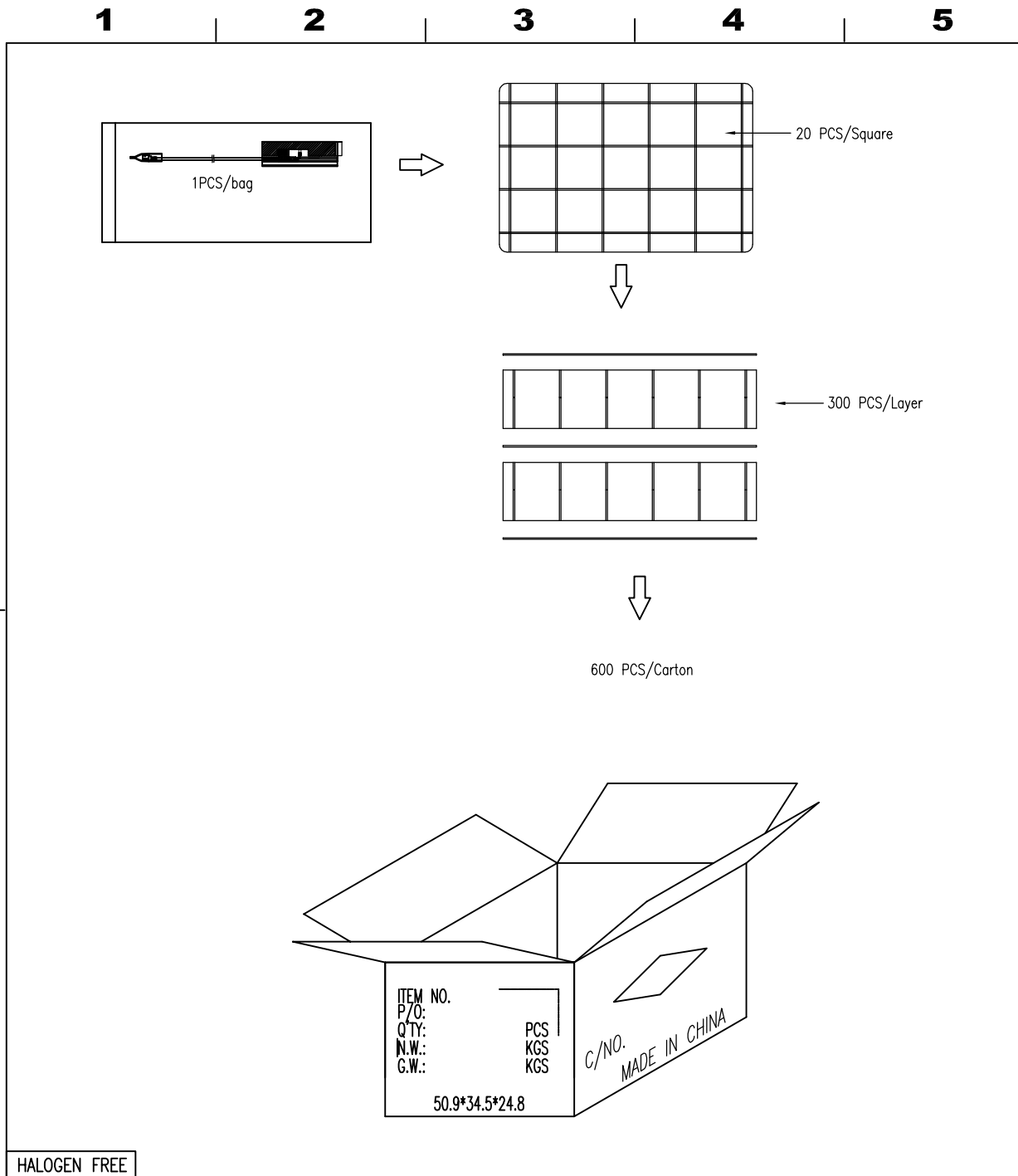
dBi	XY-Plane
H-Pol.(Peak.)	-6.95
V-Pol.(Peak.)	-6.91
H+V.(Peak.)	-6.19
H-Pol.(Avg.)	-12.41
V-Pol.(Avg.)	-11.44
H+V. (Avg.)	-8.89

5725 MHz



dBi	XY-Plane
H-Pol.(Peak.)	-6.58
V-Pol.(Peak.)	-8.31
H+V.(Peak.)	-4.57
H-Pol.(Avg.)	-11.44
V-Pol.(Avg.)	-10.88
H+V.(Avg.)	-8.14

5875 MHz



6 7 8

Rev.	EC#	Description	Drawn/Date	Checked/Date	Approved/Date
A		NEW RELEASE	hongsui 07/07/16'	King	White

NOTES

1. PACKAGING P/N SEE TABLE A

2. PACKAGING QUANTITY & N.W & G.W REFER TABLE B

3. THERE ARE 2 LAYER IN A BOX

P-SE-CF304

5隔板,4插槽x6插槽_隔板组(327x491)(1pcs/bag,1800pcs/箱)

TABLE A :

PART NAME	P/N	PCS
OUTER BOX	P-BO-0895D00	1
隔板 6插槽	P-B-060057516	8
隔板 4插槽	P-B-061057511	12
隔板	P-B-045053100	3
PE袋	P-PE-B0250090000	600

Table B :

Part Number	Pcs/Layer	Layer/Carton	Pcs/Carton	N.W(kgs)	G.W(kgs)
AEP8P-100000	300	2	600		
AEP8P-100001	300	2	600		

Tolerances Unless Otherwise Specified	Drawn	Date	 ADVANCED - CONNECTEK INC.						
	Hongsui	07/07/16'							
	Design	Date							
	Hongsui	07/07/16'							
	Checked	Date							
General	King	Approved	Date	Title					
Angles	White								
Scale									
Sheet	1 of 1	3D File		Series	AEP8P	Series		Size	A3
Unit	mm			Dwg No.	xxxxx	Rev.			X1

3.3 Gain

Frequency(MHz)	Efficiency(dBi)	Efficiency(%)
2400	-9.61	10.92
2442	-8.88	12.93
2500	-9.49	11.24
5150	-8.26	14.90
5350	-7.94	16.05
5470	-8.26	14.91
5725	-7.59	17.38
5875	-7.99	15.90

Revision

Revision	Date	Change Notification	Notes
Rev.0	2016-07-08	--	WSFA160146-KS
Rev.1	2016-10-07	Update bom	WSFA160146-KS
Rev.2	2016-10-18	增加 maximum permissible power 50mW	WSFA160146-KS
Rev.3	2016-12-02	增加 kapton tape	WSFA160146-KS
Rev.4	2017-07-20	Update CUSTOMER P/N	WSFA160145-KS



富邦 胶带

tape Technology, Inc.

Polyimide Film Tape

FUBANG NO. FK03

技术参数

FUBANG TAPE

产品描述

在Polyimide Film<聚酰亚胺薄膜>的单面上均匀地涂抹硅胶粘着剂,涂抹面卷在内侧,在直径大约76mm的卷芯上缠绕,厚度和宽度均等,并附有粘性,耐热性和耐久性。

产品构造

基材	基材厚度	胶带厚度	粘合剂	标准每卷长度
Polyimide薄膜	75um	110um	硅胶	33M

胶带的构造如图



← 基材: Polyimide Film

← 粘合剂: Silicone

产品性能

说明: 下列的技术信息和数据仅表现试验数据,不被用于规格说明目的。

		Test方法
粘着力:	≥ 5N/25mm	GB/T 2792-1998
拉力强度:	≥ 220 N/25mm	GB/T 7753-1987
伸长率:	≥ 45%	GB/T 7753-1987
基材厚度:	0.075mm	GB/T 7125-1999
Tape厚度:	0.11mm	GB/T 7125-1999
温度使用范围:	-100°F to 500°F (-73°C to 260°C)	GB/T 7125-1999
耐电压:	≥ 7KV	GB/T 14517-1993

普遍信息

- 在常温下Polyimide薄膜耐温性和绝缘性更佳,当温度增加或减少时, Polyimide薄膜不会受到任何的影响变化。
- Polyimide薄膜不会在温度提高的情况下变柔软, 如此,薄膜在提高的温度下,更能显示出性能超越的表现出来。

有效期限

获得最好的表现, 于室内环境温度25°C 相对湿度65%可以保存12个月。

应用范围

- 电子线路板波峰焊锡遮蔽,保护金手指和高档电器绝缘,马达变压器绝缘,以及锂电池正负极耳保护应用。
- 在制造零件中发挥表面被在提高的温度方面较好。

特征

特性	优势	好处
Polyimide Film Tape	在尺寸和温度方面有保障	更高生产力通过减少重新做
硅胶粘合剂	高温表现减少有粘性转移	保护表面帮助降低替换成
本 高粘性胶带	减少有粘性转移	帮助总加生产力

The physical characteristics contained in this information represent typical or average values and they do not represent any warranties or guarantees. They must not be used for technical specification purpose. Please consult out Technical Department for specific advice. (2002.10.10)

FUBANG Tape Technology, Inc.

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Tape Innovation
Adhesive Innovation
Application Innovation

Tel: +86-0512-52557505

FUBANG Tape is Green Tape.

www.fbtape.com

成品检验报告

Finished Goods Inspection Report

抽样依据: ANSI/ASQC Standard Z1.4(Ⅱ级) MA: MI:

日期: 年 月

品名 P/N		单号 Sheet No.		批量 Lot Qty					
制造者 Manufacturer		文件编号 DocumentNo		AC/RE Accept / Reject		MA		MI	
客户 Customer		版本Edition							
一、外观目视 Cosmetic inspection		抽验数 Samples		不良数 Defect		MA		MI	
项目 Item	OK	NG	实际状况 Actual Condition		项目 Item	OK	NG	实际状况 Actual Condition	
1.端子 Terminal			A变形;Bキズ;Cメッキ不良; D汚 れ;E錆.		6.包装方式 Packing			A員数不足;B数量NG;C箱潰れ;D梱包不良; E梱包漏れ.	
2.胶芯 Housing			Aショート;B穴;Cバリ;D欠け;E気 泡;F割れ;G色さ;H汚れ.		7.标示情形 Mark			A印字不良;Bラベル漏れ;C現品票記載問題.	
3.铁壳 case			A变形;Bキズ;Cメッキ不良; D 汚れ;E錆.		8.线材外观 Appearance Of Wire			A配線ずれ;B外皮破れ;C汚れ. D印字不良.	
4.五金配件 Hardware			Aパーツ漏れ;Bパーツ不良.		9.胶带外观 Appearance Of Tape			Aテープ破損;B汚れ;Cバリ.	
5.组装状况 Assembly			A断線;B位置ズレ;C位置逆さ;D パーツ漏れ.		10.成型 Molding			Aショート;B成形不良;Cバリ;D欠け;E汚れ; F気泡;G色差 色差	
二、尺寸量測 Dimension Measurement		抽验数 Samples		不良数 Defects		MA:			
标准尺寸 Dimension spec	实际尺寸 Actual Dimension					判定 Confirmation			
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5				
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
三、电气功能测试 Electrical functional tests (Conduction、Insulation resistance、Dielectric voltage)			规格 Spec	抽验数 Samples		CR=0	OK	NG	判定 Confirmation
四、功能检验: Function inspection			抽验数 Samples	不良数 Defects			MA		
项目 (Item)	规格 Spec	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	OK	NG	实际状况 Actual Condition
1.试板 Test board									
2.平整度 Coplanarity									
3.扭力 Torque Force									
4.螺丝锁紧 Trial Screw Lock									
5.特性阻抗 Characteristic impedance									
6.对插 Mating and Unmating									
7.实物组装 Object Assembly									
8.焊锡性测试 Solderability test									
9.ICP/XRF/SGS测试									
10.GP标签 (label)批号:									
五、最终判定		☐ 允收(ACC.) ☐ 拒收(REJ.) ☐ 特采(AOD.)							
备注:									

第一联 白 存 根

第二联 浅 蓝 客 户

审核Checked By :

检验 Inspector:

200303-P-0002507-06

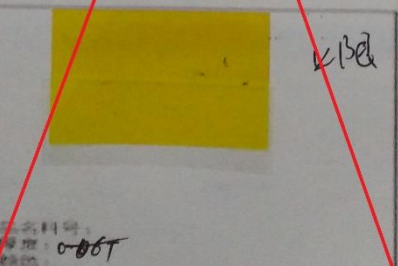
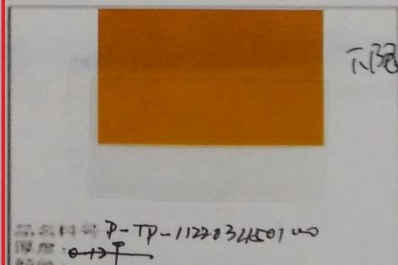
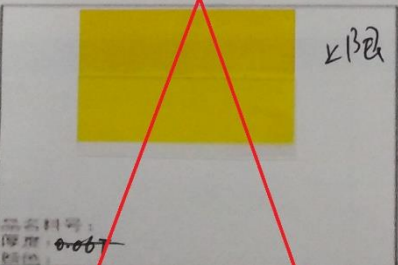
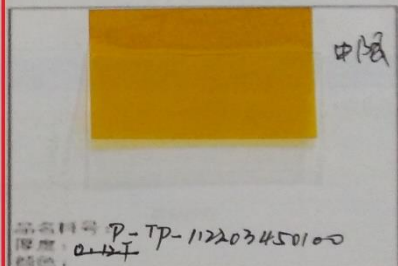
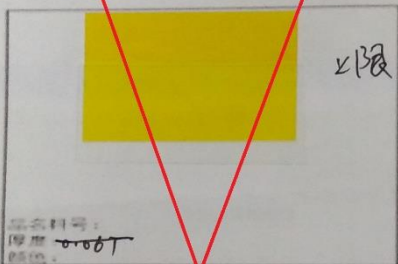
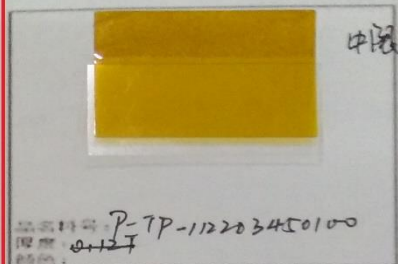
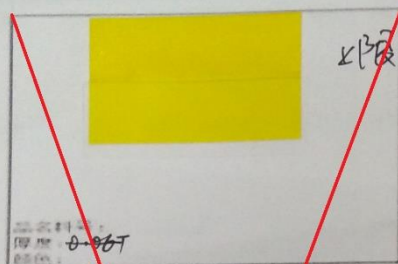
カプトンテープ限度見本

Product Catalog

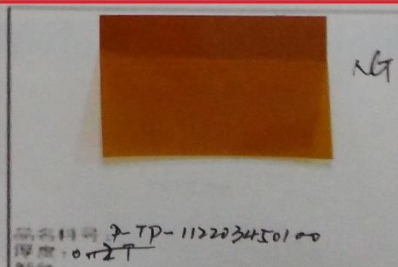
品番 : P-TP-112203450100

色 卡

OK



NG



TEL: +86-512-50103666

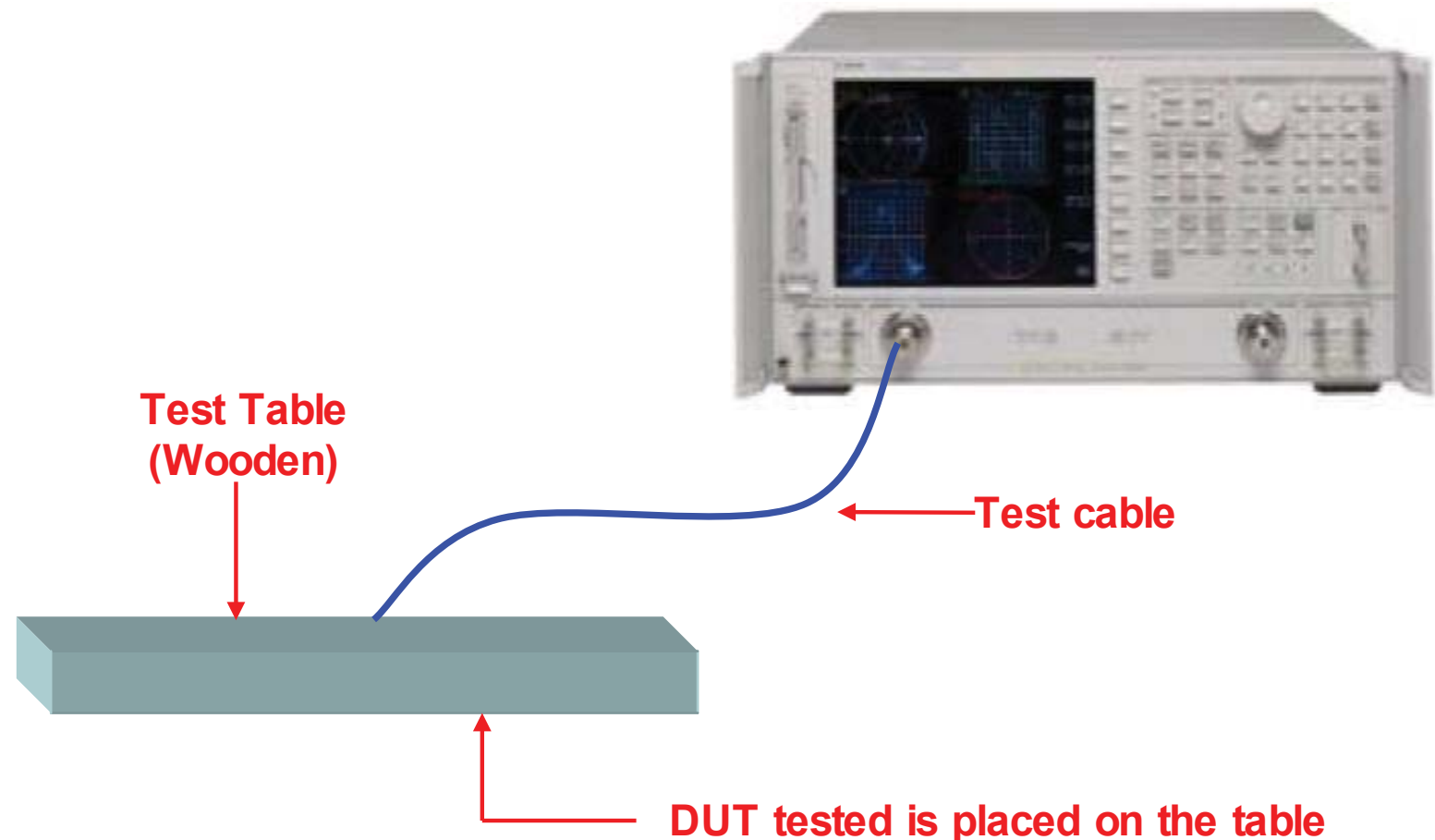
江苏省昆山市淀山湖镇新兴路19号

Test Environment and Equipments

Confidential
Internal Use Only

S-Parameter test

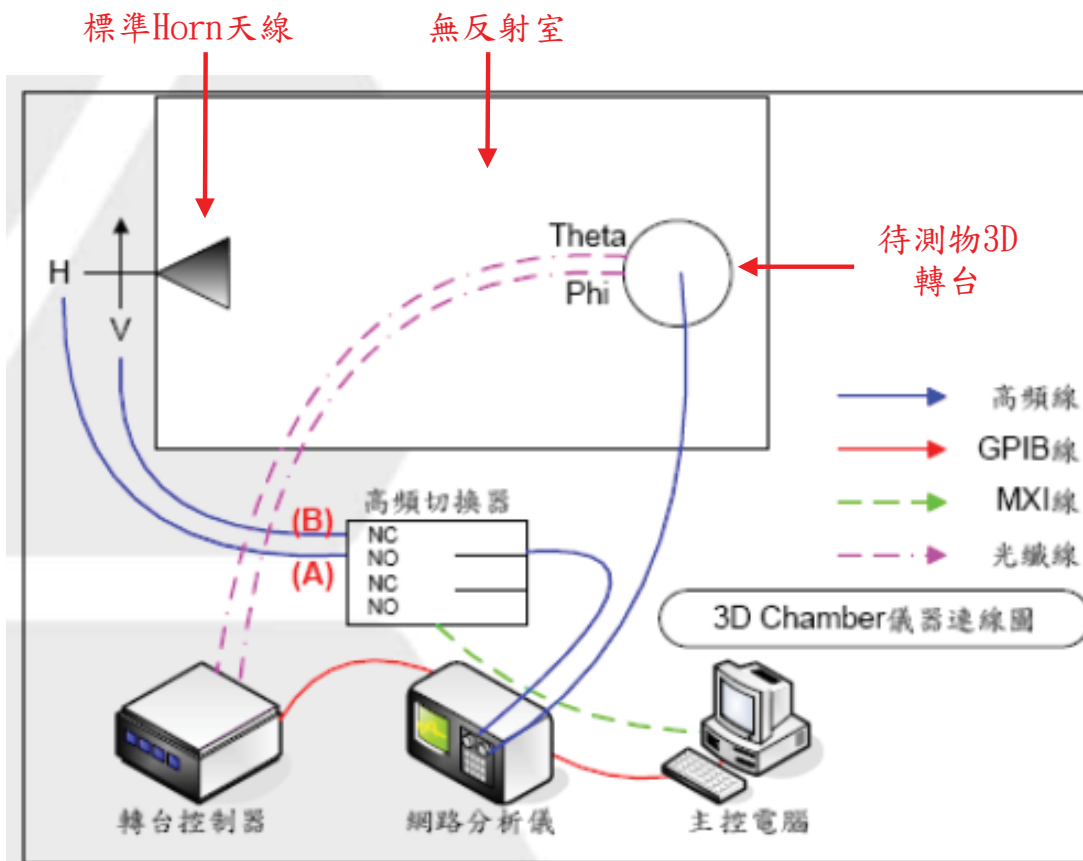
- Network Analyzer(Agilent-E5071C or R&S ZVL)
- Testing range from 9KHz to 8.5GHz or 300KHz~6.5GHz



Test Environment and Equipments

The Gain, Efficiency, Directivity and 2D/3D Pattern

- ACON 3D Anechoic Chamber
- Testing range from 700MHz to 6GHz
- Chamber Room Size: L*W*H=9*4.7*4.7 M

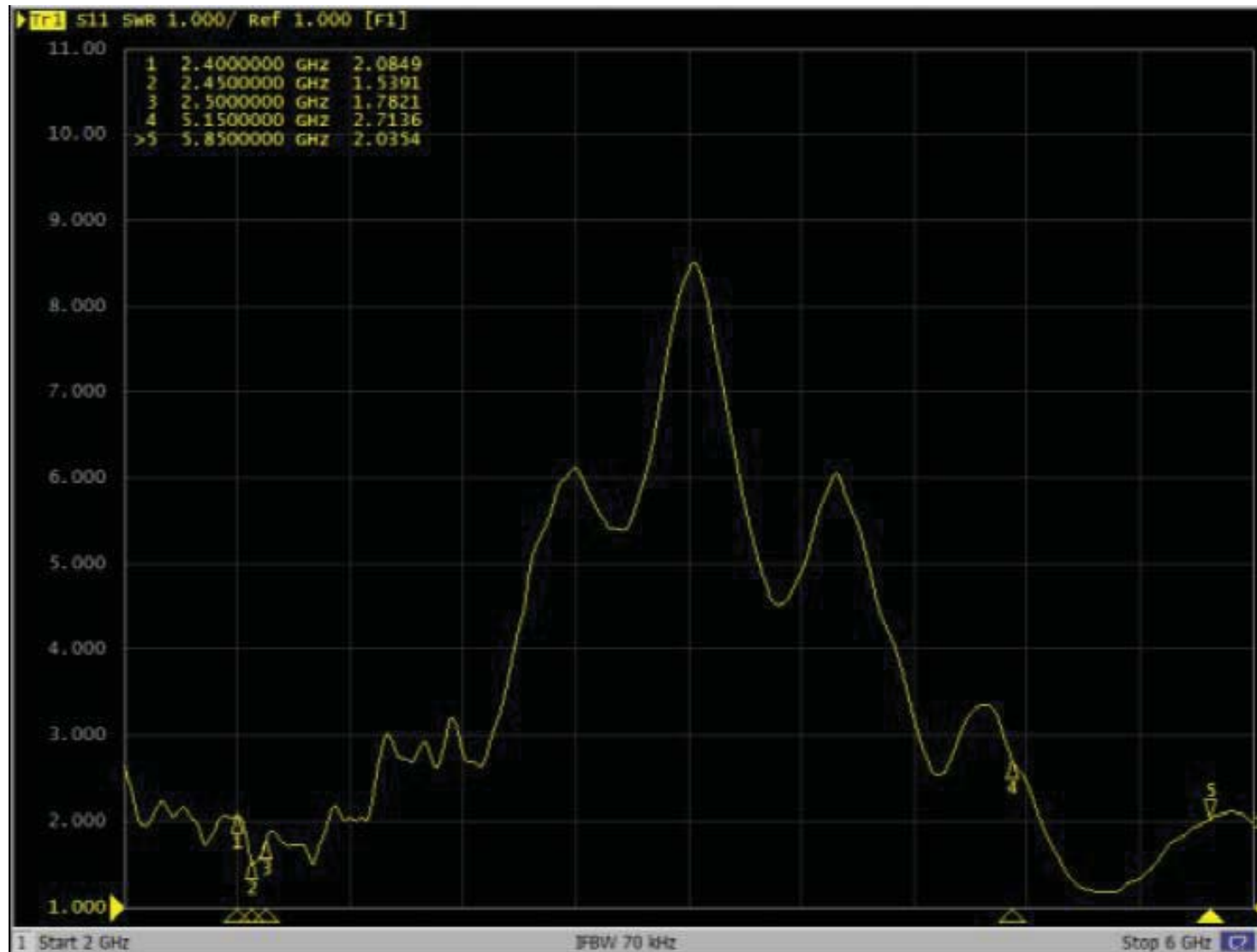


Antenna Positions and Dimensions



Test Result: Antenna VSWR

Antenna I (Main antenna)



Test Result: Antenna Efficiency & Peak Gain

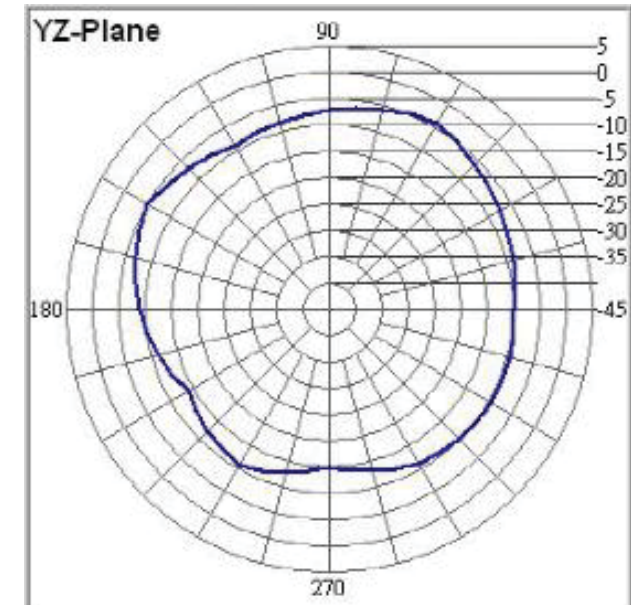
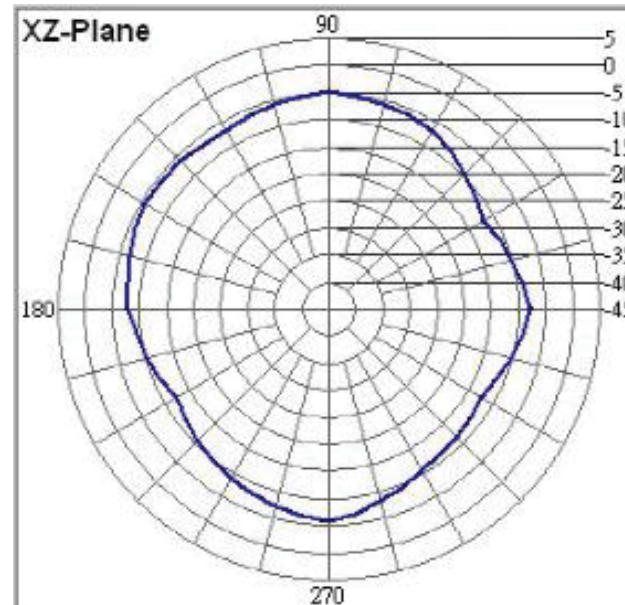
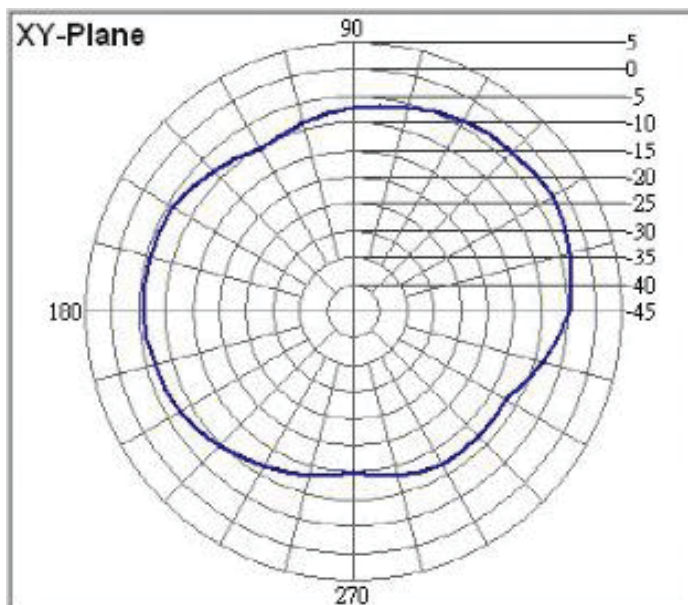
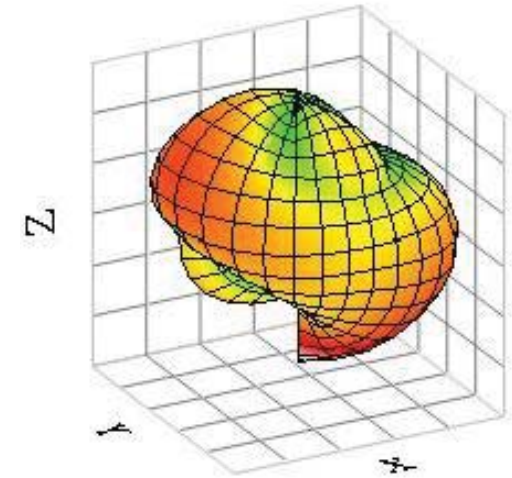
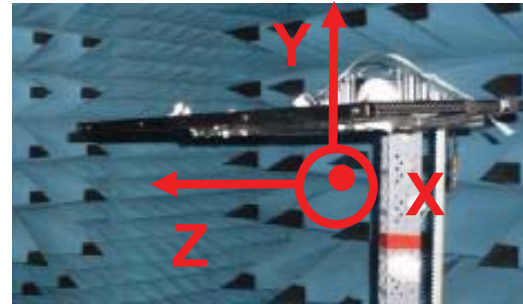
Antenna I (Main antenna)

Frequency(MHz)	2400	2442	2484	2500	5150	5350	5470	5725	5875
Directivity(dBi)	6.18	5.91	6.69	4.31	5.37	6.44	5.31	4.02	6.68
Efficiency(%)	11.28	15.39	13.68	16.43	16.20	18.07	16.81	20.66	14.24
Peak Gain(dBi)	-3.28	-2.22	-1.95	-3.53	-2.58	-0.98	-2.42	-2.81	-1.78

Test Result: 2D Radiation Pattern

WLAN Antenna I (Main antenna)

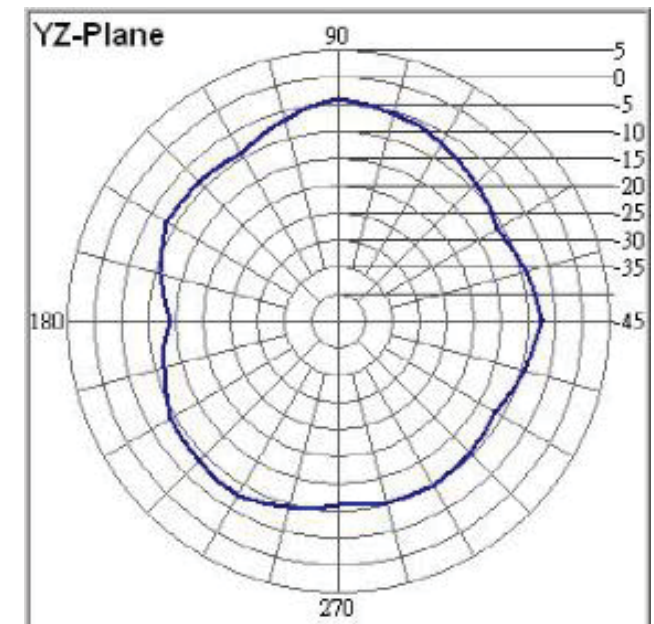
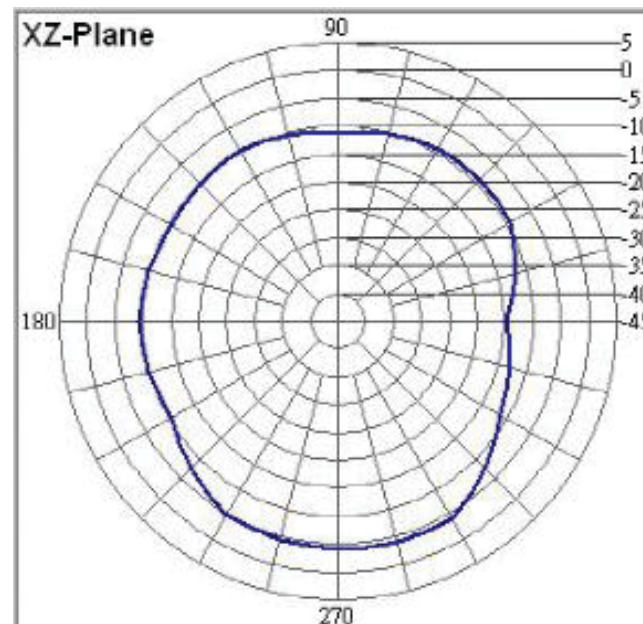
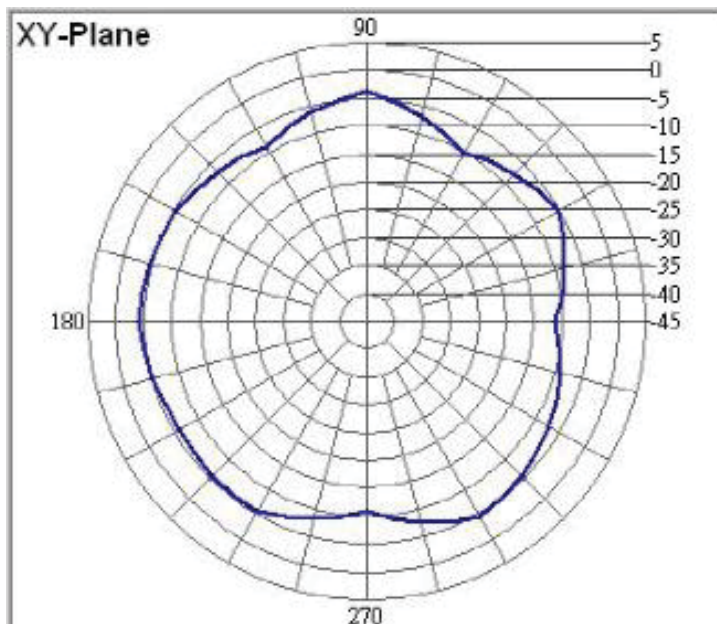
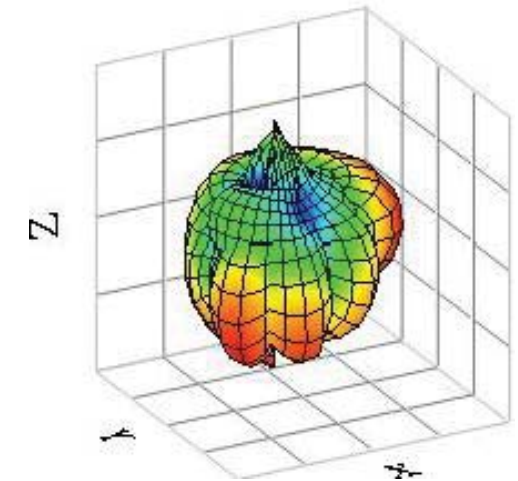
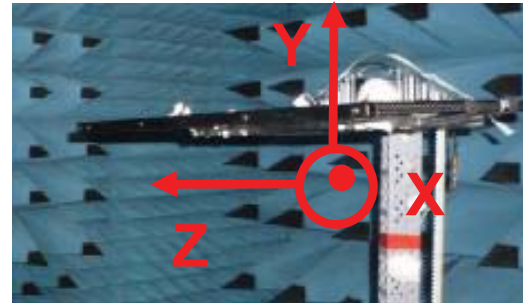
Radiation pattern of 2442 MHz



Test Result: 2D Radiation Pattern

WLAN Antenna I (Main antenna)

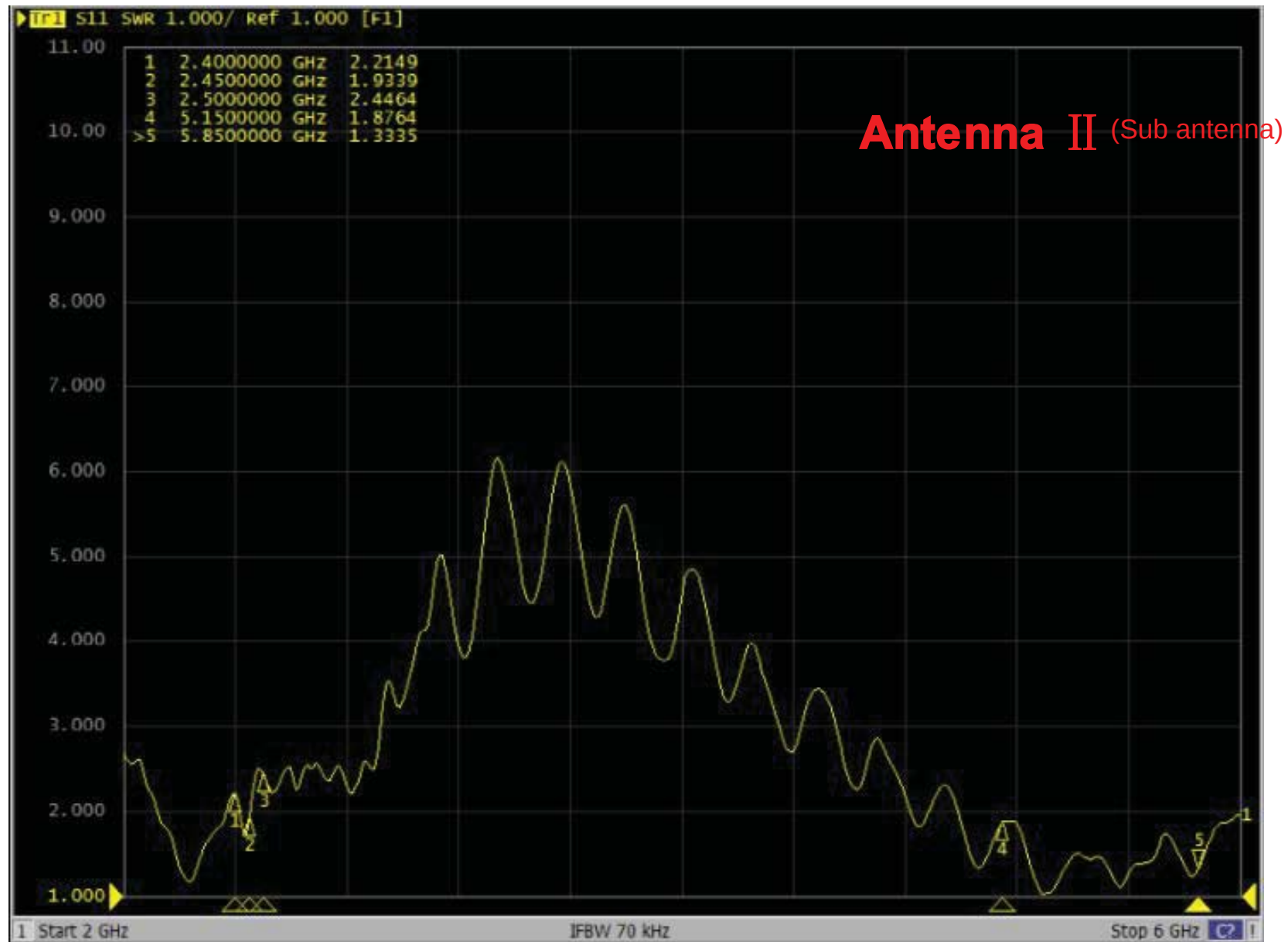
Radiation pattern of 5470 MHz



Antenna Positions and Dimensions



Test Result: Antenna VSWR



Test Result: Antenna Efficiency & Peak Gain

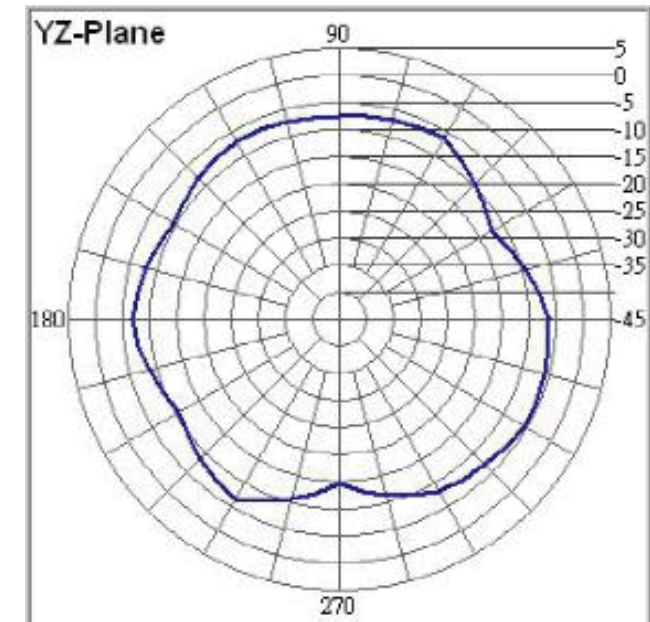
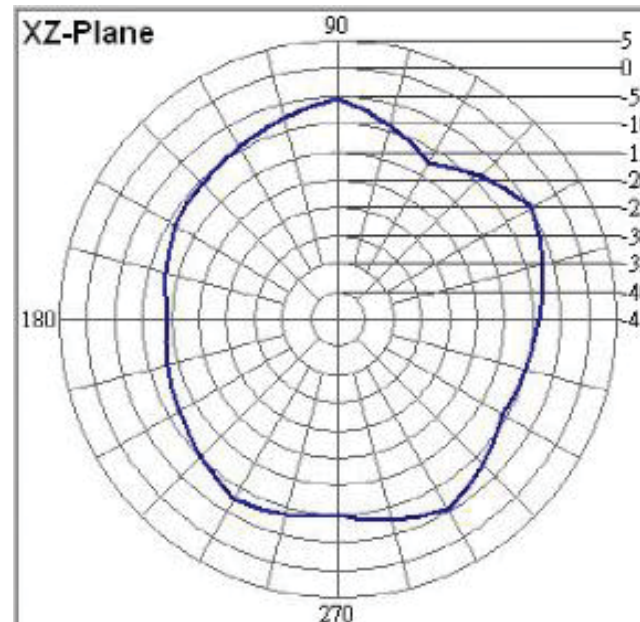
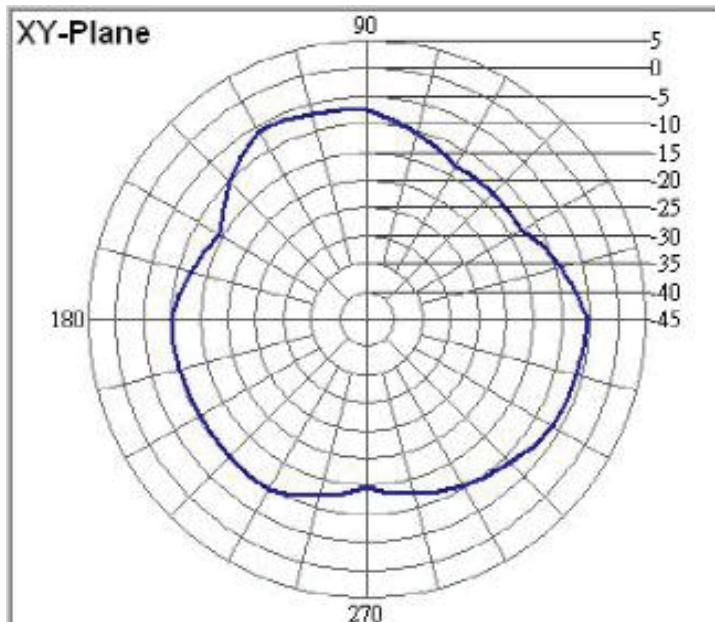
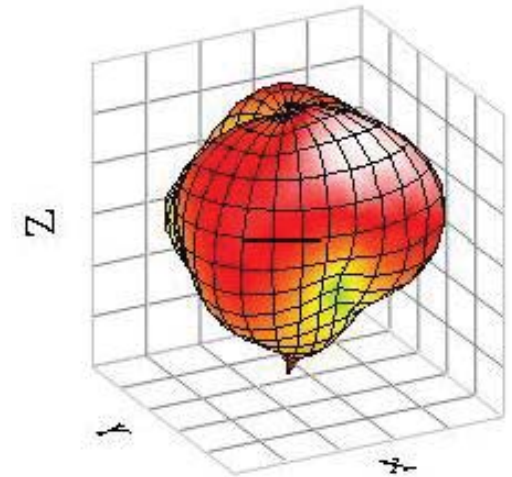
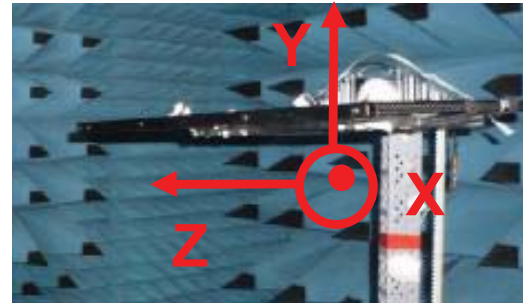
Antenna II (Sub antenna)

Frequency(MHz)	2400	2442	2484	2500	5150	5350	5470	5725	5875
Directivity(dBi)	6.7	6.59	6.65	6.34	6.39	6.07	6.45	5.08	6.56
Efficiency(%)	11.85	12.26	13.01	12.29	16.09	15.58	13.36	16.32	13.13
Peak Gain(dBi)	-2.56	-2.53	-2.21	-2.76	-1.54	-2.00	-2.28	-2.78	-2.25

Test Result: 2D Radiation Pattern

WLAN Antenna II (Sub antenna)

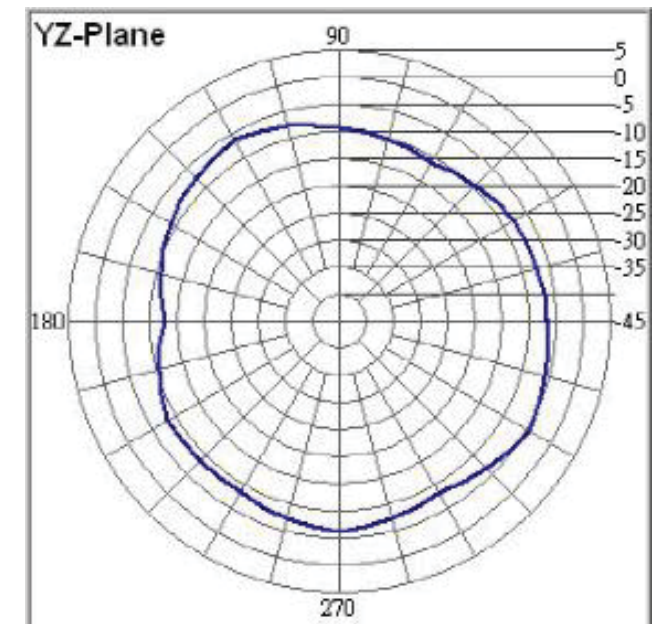
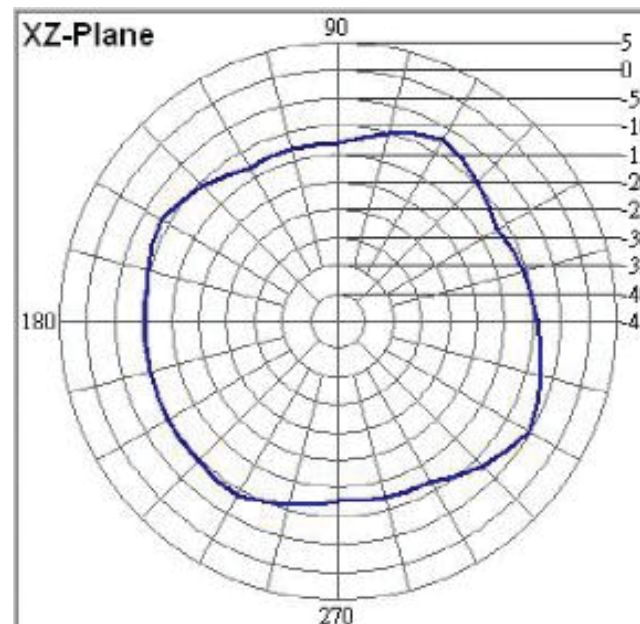
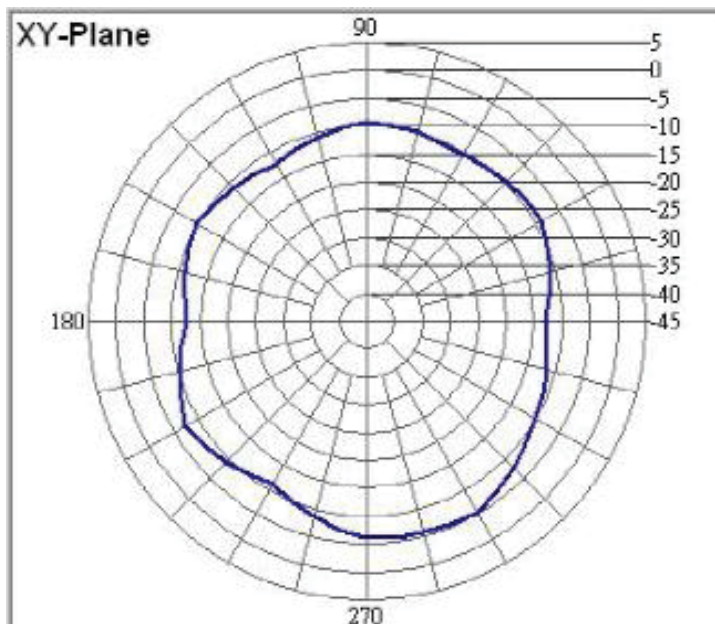
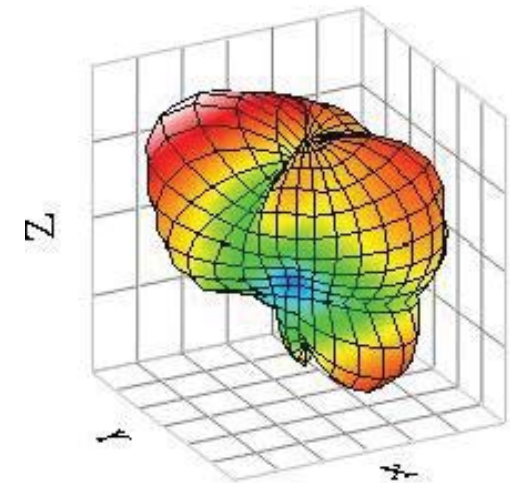
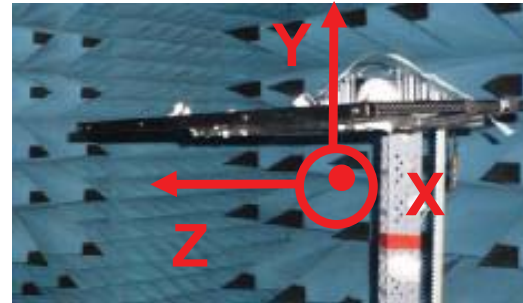
Radiation pattern of 2442 MHz



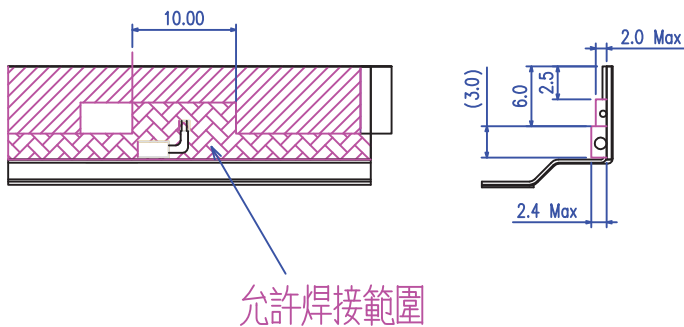
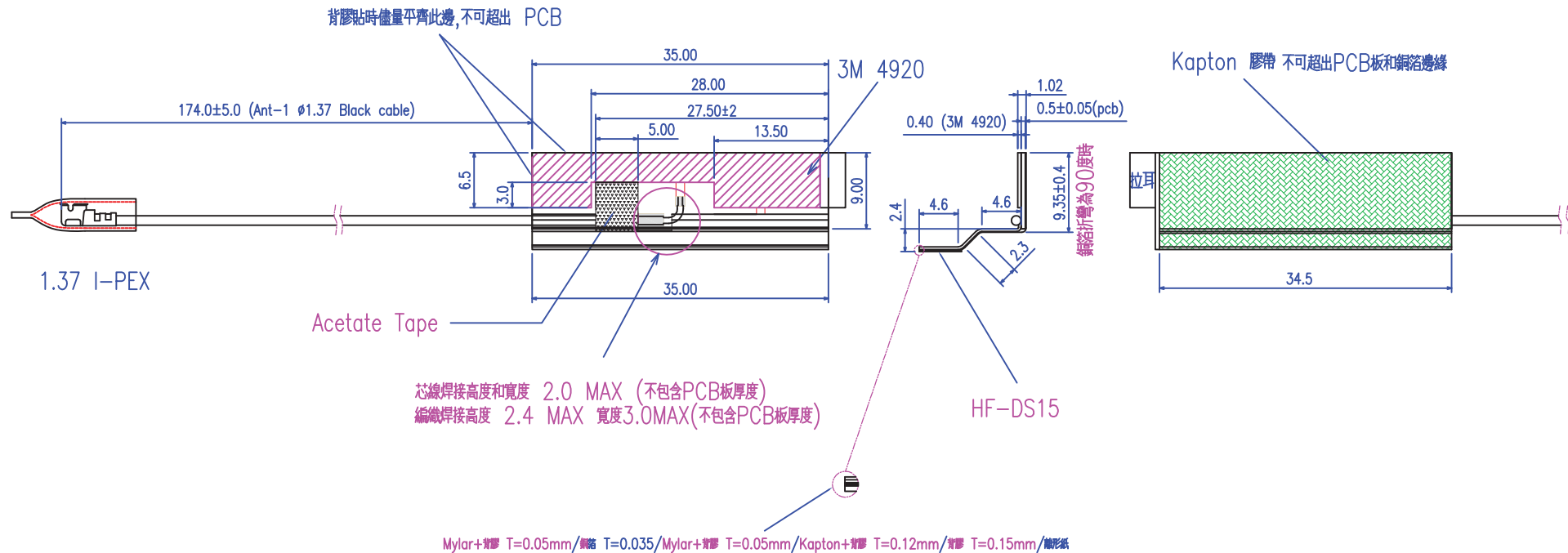
Test Result: 2D Radiation Pattern

WLAN Antenna II (Sub antenna)

Radiation pattern of 5470 MHz



1	2	3	4	5	6	7	8			
ACON P/N	AEP8P-100000	Main antenna			Rev.	EC#	Description	Drawn/Date	Checked/Date	Approved/Date
Customer P/N	A8CE7801Z0				X5		NEW RELEASE	Hongsui 01/28/16'	Arthur	Arthur
Customer P/N	A8CE780100A									



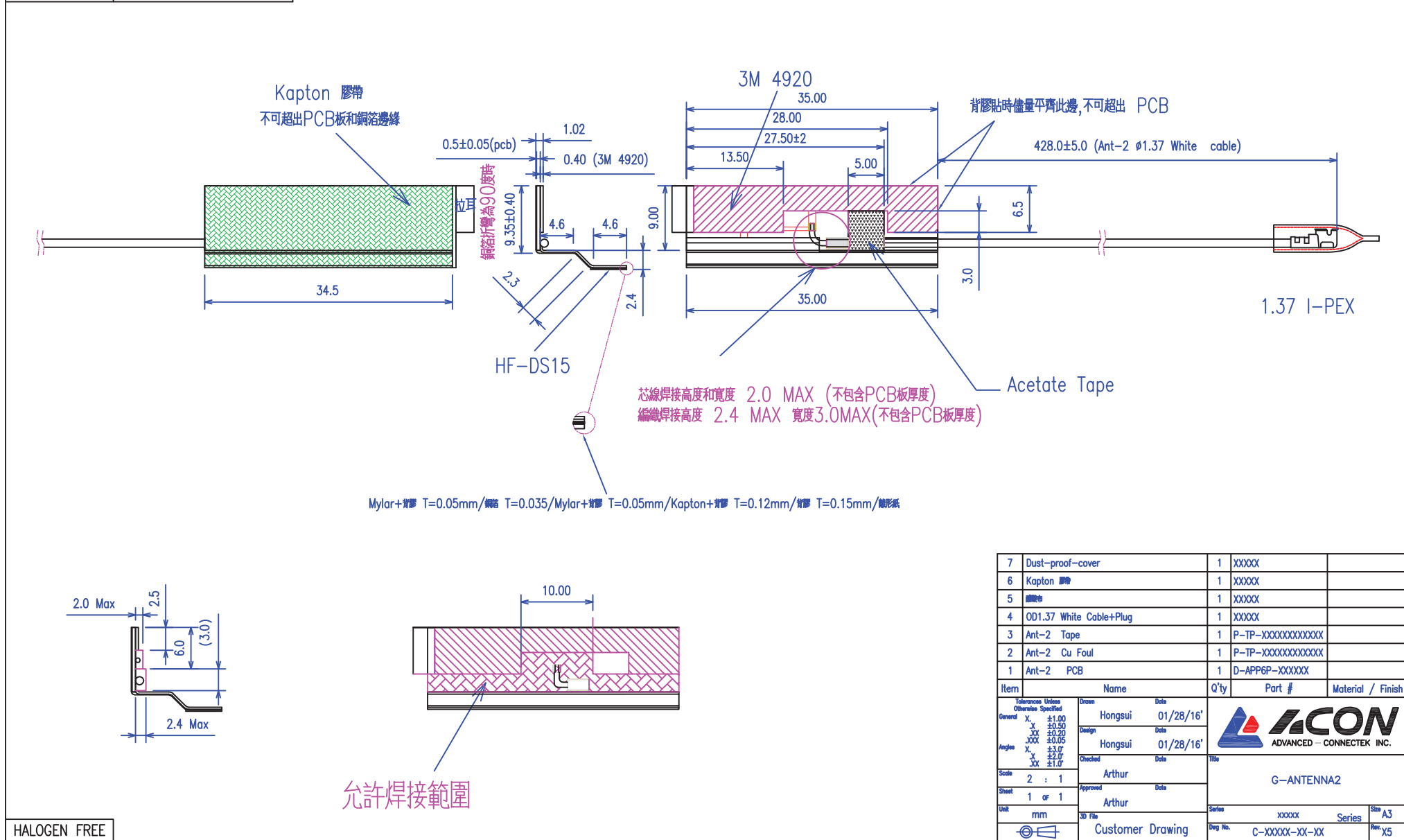
HALOGEN FREE

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7	Dust-proof-cover	1	XXXXX	
6	Kapton 膠帶	1	XXXXX	
5	銅箔	1	XXXXX	
4	OD1.37 Black Cable+Plug	1	XXXXX	
3	Ant-1 Tape	1	P-TP-XXXXXXXXXXXX	
2	Ant-1 Cu Foul	1	P-TP-XXXXXXXXXXXX	
1	Ant-1 PCB	1	D-APP6P-XXXXXX	
Item	Name	Q'ty	Part #	Material / Finish
Tolerances Unless Otherwise Specified General X ±1.00 XX ±0.50 XXX ±0.20 XXX ±0.05 Angles X ±3.0° XX ±2.0° XXX ±1.0° Scale 2 : 1 Sheet 1 of 1 Unit mm Drawn Hongsui 01/28/16' Design Hongsui 01/28/16' Checked Arthur Approved Arthur 3D File Customer Drawing ADVANCED - CONNECTEK INC. G-ANTENNA1 Series XXXXX Series Size A3 Rev. X5 C-XXXXX-XX-XX				

符合連展環境管理物質技術標準
All materials meet the ACON's spec. Environment - related substances management technical standard.

1	2	3	4	5	6	7	8			
ACON P/N	AEP8P-100001	Sub antenna			Rev.	EC#	Description	Drawn/Date	Checked/Date	Approved/Date
Customer P/N	A8CE7802Z0				X5		NEW RELEASE	Hongsui 01/28/16'	Arthur	Arthur
Customer P/N	A8CE780200A									



APPENDIX (Details of Antenna Tests)

- Test Equipment (Calibrated)
Agilent 8720 (50MHz~20GHz)/8753 (30kHz~6GHz)
- Test Date
July 10, 2017
- Name of the person in charge of the test
郝進焰 (Hao Jin Yan)
- Name of commercial test software used.
IntuiLink for VNA Network Analyzers