PARTS NUMBER REQUEST & APPROVAL SHEET

BILLION
Powering Communications

1. Part Number:	AAZANDXSXAN8921F00	□申請單：□新增料件 □新增經銷商 ■變更單

2. 製造商: (Manufacturer)	英碩科技股份有限公司	製造商料號 : (Manufacturer P/N)	AN8921F-9219SM
3. 經銷商: (Supplier)	英碩科技股份有限公司	經銷商料號: (Supplier P/N)	
4. 種類名稱：（分群碼）	Antenna		

5A. 品名描述(Part Description)： 英碩LTE ANT-D(1700MHz 黑-2pcs

5B. 規格描述(Spec.Description)： BEC 用 ~~swivel~~ 1dBi SMA AN8921F-9219SM 鄒坤龍

6. 變更原因說明(Change Reason)： 樣品加上BEC Logo，變更為2pcs包裝，製造商料號變更，SPEC.變更；變更規格描述。

(申請或變更料號請附上規格說明書) 如有任何變更, 須事前聯絡, 取得承認後, 始能變更

7. Series Approval □ 請勾選（規格請參照 _____ 系列承認書）

8. 樣品發行：■BILLION ■EG-B □None

9. 備註(Remark)：

DCC 文管中心發行章	主管核准 Manager Signature		審查 Engineer Signature		承辦
	M.E.	E.E.	M.E.	E.E.	
BILLION ELECTRIC CO., LTD. ISSUED 102.7.19 CRC ENGINEERING DEPT.	Christian 林桂美	7/17	Katie 2013/7/15	趙宗茂 2013-7-16	2013 7/15 鄒坤龍
	*無須審核者以"N/A"表示 *簽名時應註明日期				

申請日: 2013/7/15 (Request Date)	Katie 申請者 (Request)	Comm. PM 申請單位(Department)	高堤吟 鍵入者 (Key-in)

由零件工程師填寫

Specification For Approval

Date: 2013 / 07 / 01

File No.: 130701002

Version: 1.0

Customer： 盛達電業股份有限公司

Customer P/N： AAZANDXSXAN8921F00

INVAX P/N： AN8921F-9219SM

Description： Antenna

Cortec Checked By: R@D Dept 2013.07.01 Jack
Customer Approved By:

INVAX System Technology Corp.
4F. No. 815.Chung Hsiao East Rd.,Sec.5
Taipei, TAIWAN

TEL:886-2-2788-5218 FAX:886-2-2783-1658
http://www.invaxsystem.com

Cortec Technology Inc.
Xian-Xi Industrial, Sha-Tou Administration Zone,
Chang-A n Town, Dong-Guan City, Guangdong
Province, China
TEL:86-76 9-85388261 F AX:86-769-85317869
http://www.cortec.com.cn

Index:

1. Revision History / Page 3

2. Specification / Page 4

3. Characteristics and Reliability Test / Page 5

4. Antenna - S Parameter Test Data / Page 6

5. Antenna - Radiation Pattern Test Data / Page 7 ~ 11

6. Mechanical and Packing Drawing / Page 12 ~ 13

7. Material Description and RoHS Test Report / Page 14 ~ end

1. Revision Histor

Revision	Date	Change Notification	Description
1.0	2013.07.01		

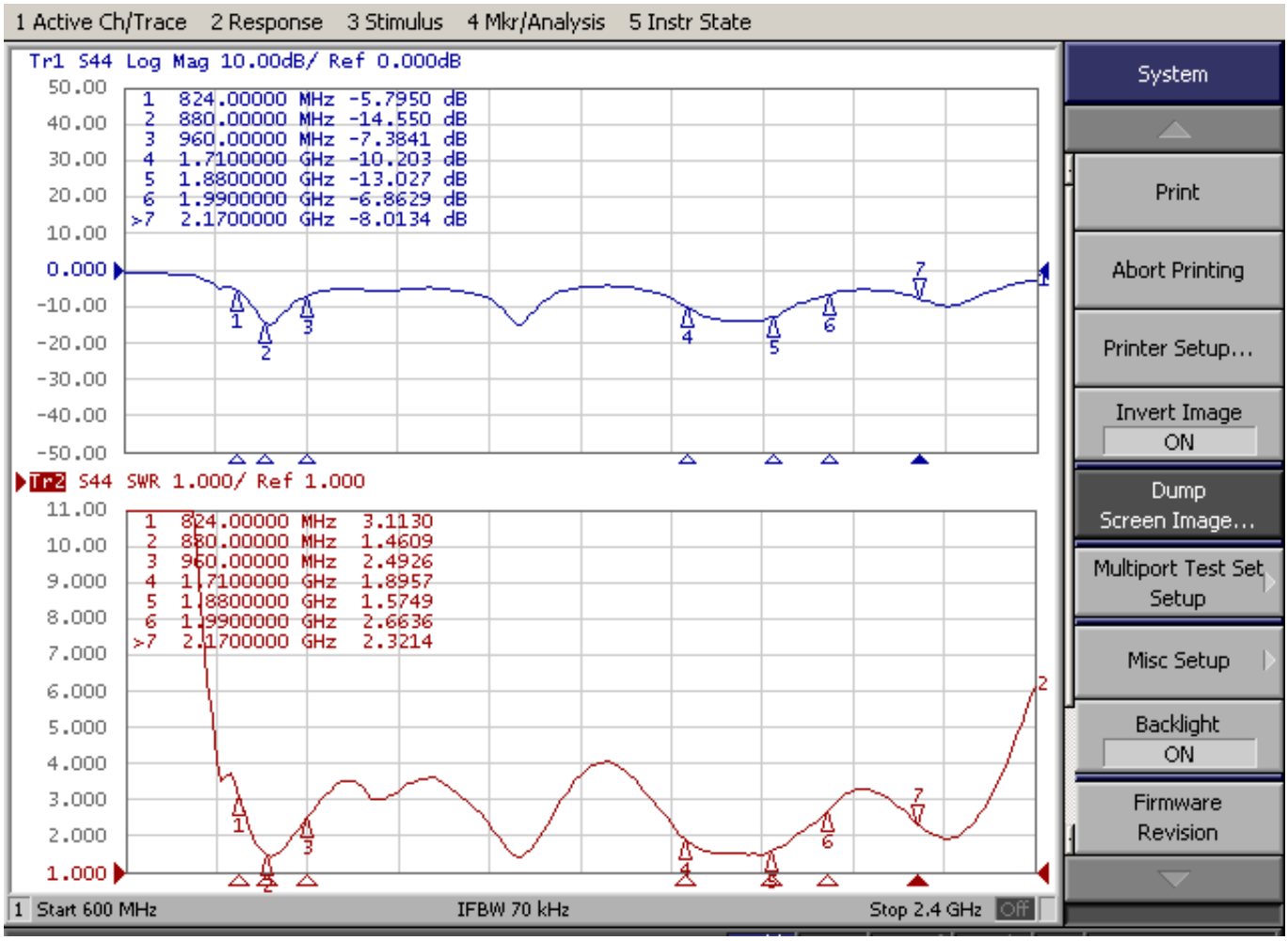
2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	**824 ~ 960 MHz** **1710 ~ 2170 MHz**
S.W.R.	**<= 2.0 @ 880 MHz** **<= 2.0 @ 1880 MHz**
Antenna Gain	**≧ 2.0± 0.5dBi @ 824 ~ 960 MHz** **≧ 1.0± 0.5dBi @ 1710 ~ 2170 MHz**
Polarization	**Linear**
Impedance	**50 Ohm**
B. Material & Mechanical Characteristics	
Material of Radiator	**Cu**
Material of Plastic	**Body: TPEE** **Hinge: ABS** **Holder: ABS**
Cable Type	**RG-178**
Connector Type	**SMA Male**
Connector Pull Test	**>= 5Kg**
C. Environmental	
Operation Temperature	**- 40 ˚C ~ + 65 ˚C**
Storage Temperature	**- 40 ˚C ~ + 80 ˚C**
Antenna Color Storage life	**< 2** year

3. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	GB / T2423.8-1995 Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	GB 2423 . 28- 82 Solder iron: 260±5°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	GB / T 2423 . 17- 93 Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	GB / T 2423 . 4 - 93 Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	GB / T 2423 . 22 - 87 1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	GB /T 2423 . 2 - 89 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2011/65/EU
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

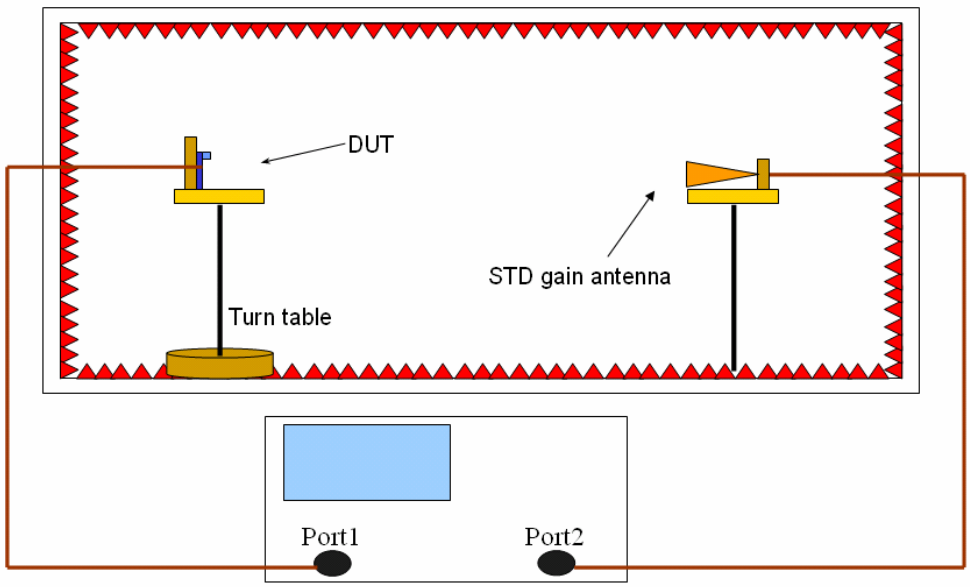
4. Antenna - S Parameter Test Data



5. Antenna - Radiation Pattern Test Data

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m
Quite 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



6. Mechanical Drawing

See attached files

7. Material Description and RoHS Test Report

See attached files

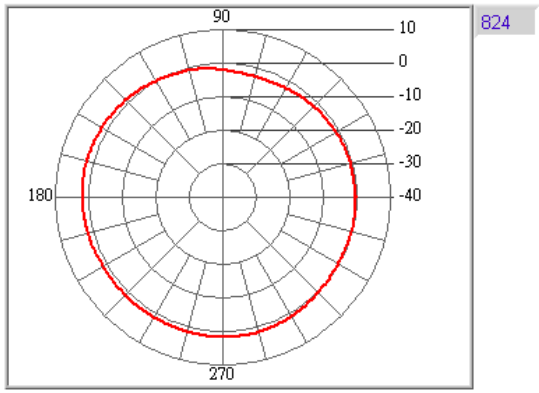
Cortec Technology Inc.

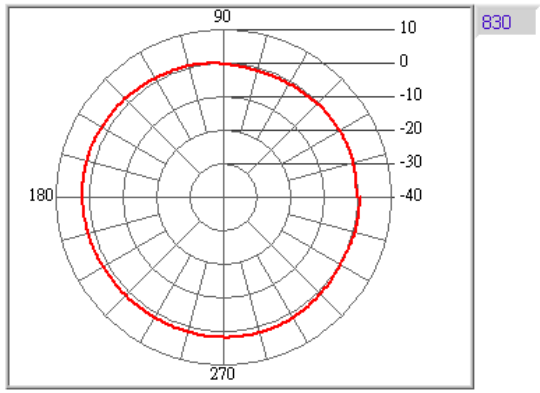
广东省东莞市长安镇振安路沙头段咸西工业区

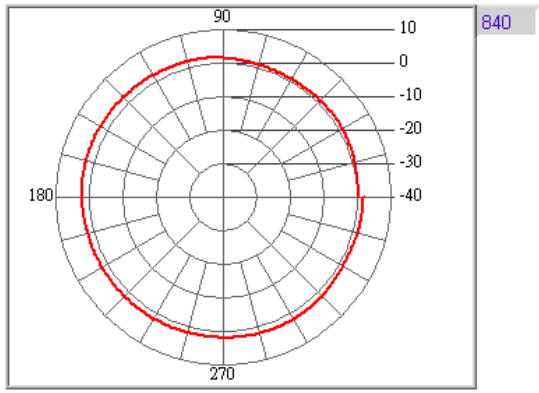
Antenna : 3G Antenna
Remark :H-Plane // V-Pol
Tested by :CORTEC Antenna 3D Lab

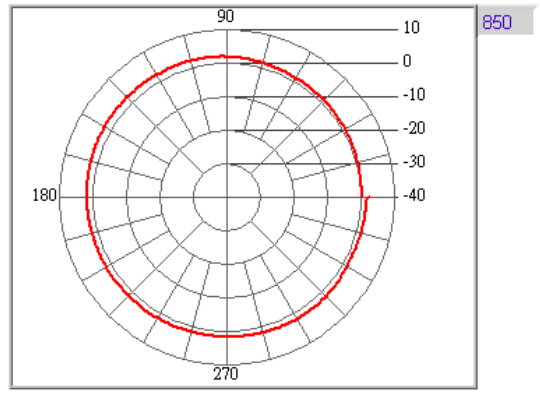
Location: **Chamber**
Temperatuer (℃): **25.00**
Date: **2011/7/22**
Humidity (%): **65.00**
Time: **上午 09:17:39**
Approved by:

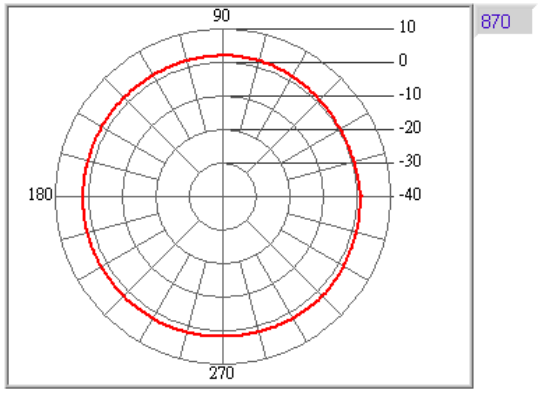
Freq. (MHz)	824	830	840	850	870	880	895	900	915	930	945	960
Peak Gain (dBi)	1.98	2.21	2.45	2.2	2.01	1.59	1.26	1.2	0.41	0.38	0.32	0.09
Peak Degree	168	158	147	136	85	241	1	0	11	356	356	360
AV Gain (dBi)	0.45	0.98	1.65	1.59	1.61	1.19	0.61	0.58	-0.16	-0.32	-0.47	-0.8

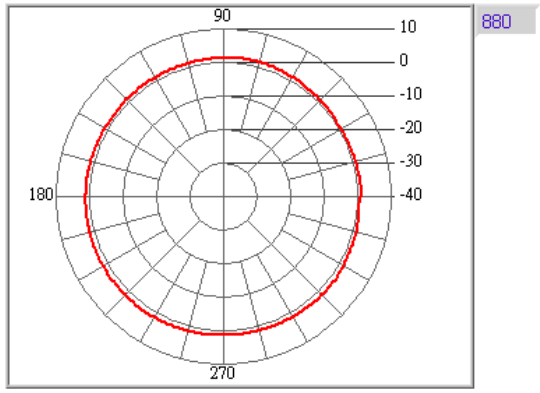


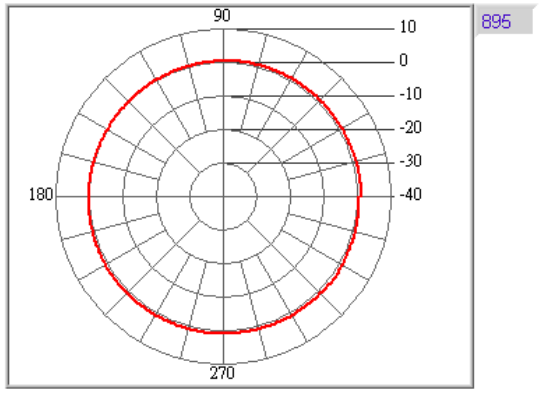


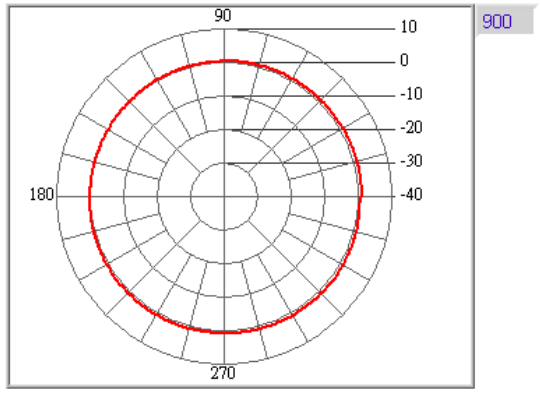


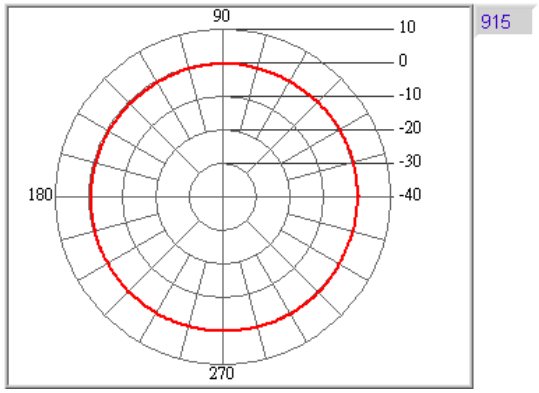


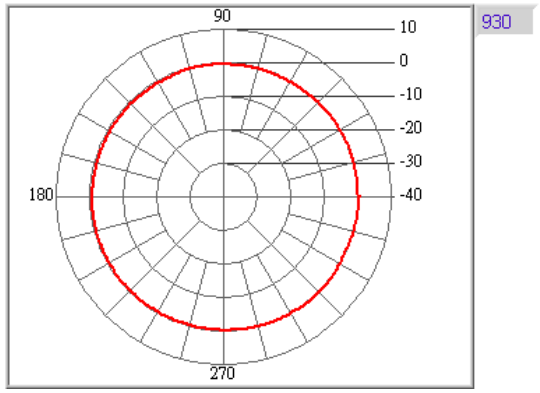


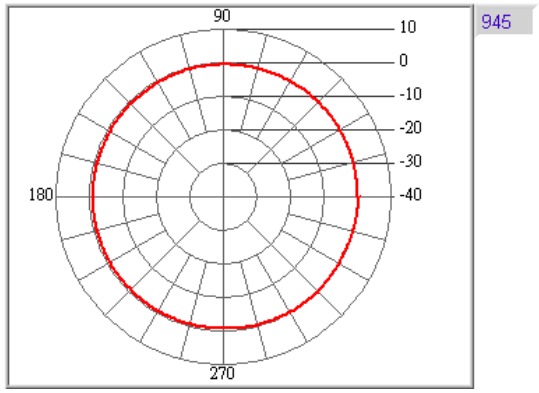


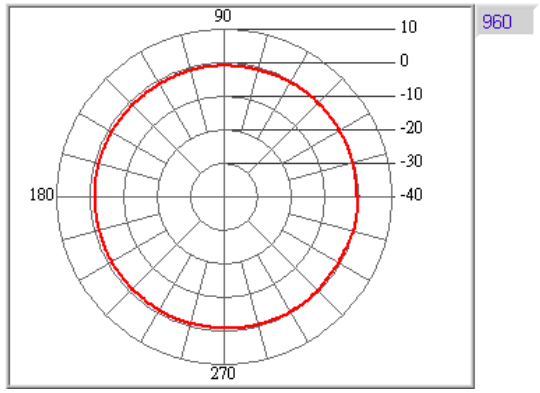












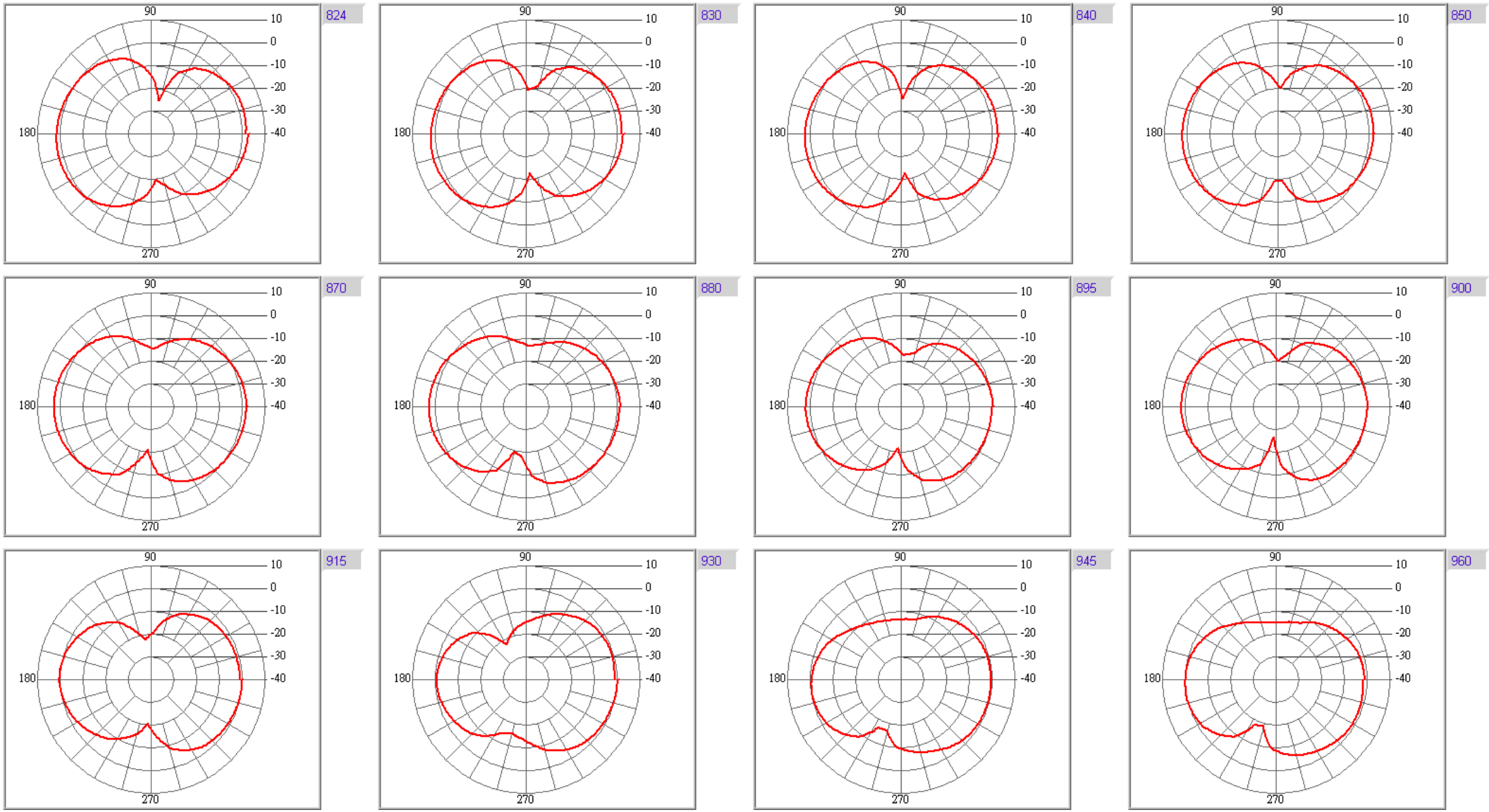
Cortec Technology Inc.

广东省东莞市长安镇振安路沙头段咸西工业区

Antenna : 3G Antenna
Remark :E-Plane // H-Pol
Tested by :CORTEC Antenna 3D Lab

Location: **Chamber**
Temperatuer (℃): **25.00**
Date: **2011/7/22**
Humidity (%): **65.00**
Time: **上午 09:15:13**
Approved by:

Freq. (MHz)	824	830	840	850	870	880	895	900	915	930	945	960
Peak Gain (dBi)	2.77	2.81	2.74	2.21	2.67	2.66	1.91	1.63	0.29	0.29	-0.35	0.08
Peak Degree	360	360	359	360	181	182	182	181	181	359	360	192
AV Gain (dBi)	-1.27	-1.06	-0.84	-1.14	-0.98	-1.4	-2.29	-2.49	-3.55	-3.96	-3.86	-3.94



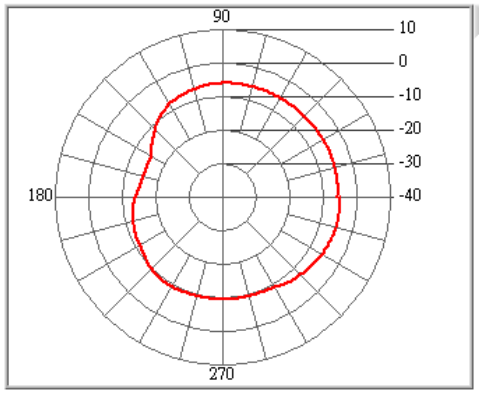
Cortec Technology Inc.

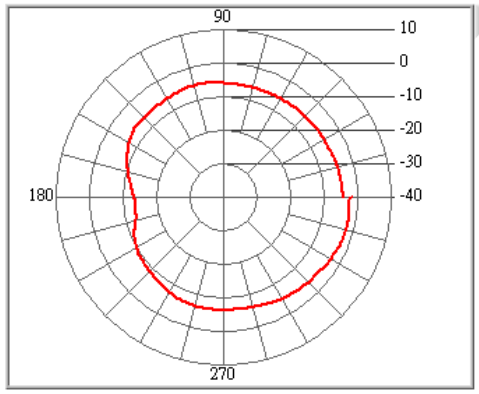
广东省东莞市长安镇振安路沙头段咸西工业区

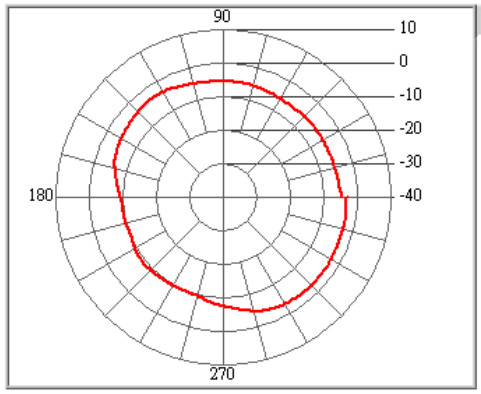
Antenna : 3G Antenna
Remark :H-Plane // V-Pol
Tested by :CORTEC Antenna 3D Lab

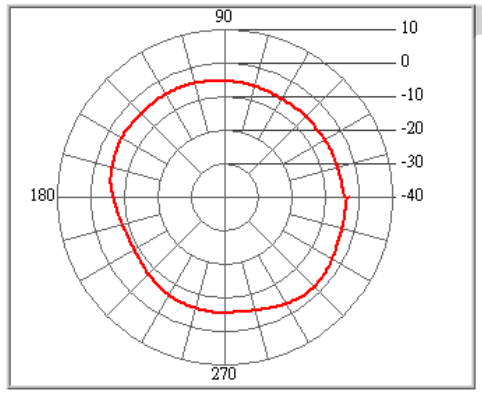
Location: **Chamber**
Temperatuer (℃): **25.00**
Date: **2011/7/22**
Humidity (%): **65.00**
Time: **上午 09:07:18**
Approved by:

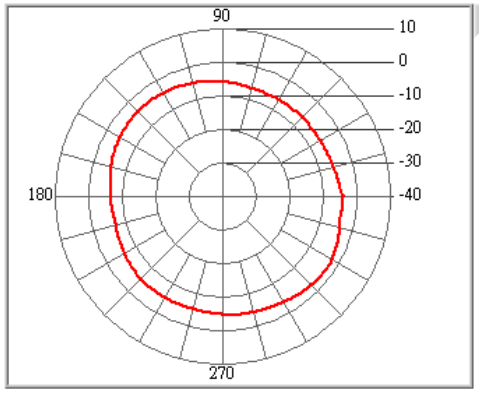
Freq. (MHz)	1710	1760	1800	1850	1880	1900	1950	1990	2030	2100	2120	2170
Peak Gain (dBi)	-4.81	-2.07	-2.74	-2.35	-2.27	-1.75	-2.02	-1.81	-1.33	-0.36	-0.12	-0.86
Peak Degree	350	350	319	318	328	329	308	287	298	297	297	287
AV Gain (dBi)	-7.74	-5.91	-5.41	-5.1	-4.93	-4.3	-3.55	-3.63	-3.29	-2.34	-1.97	-2.72

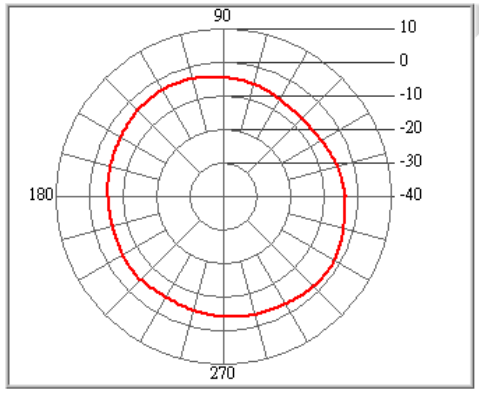


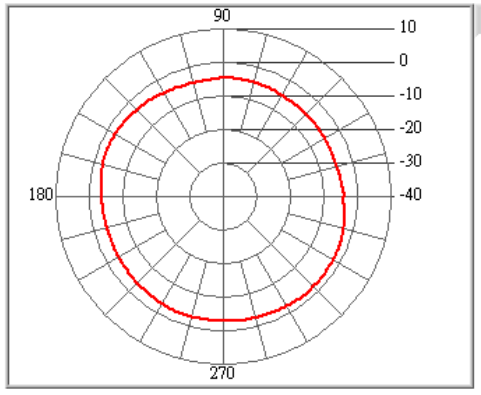


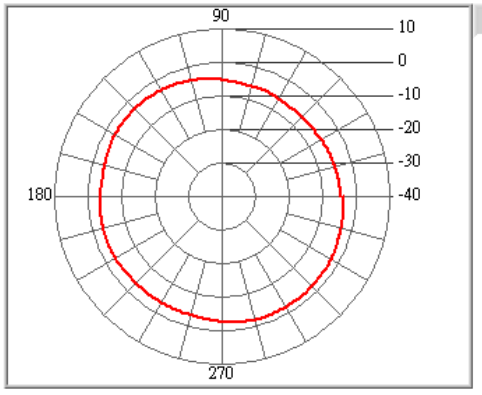


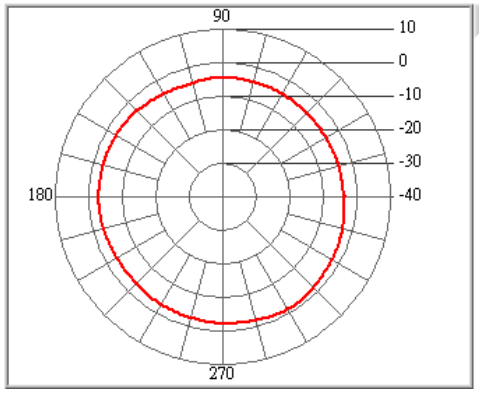


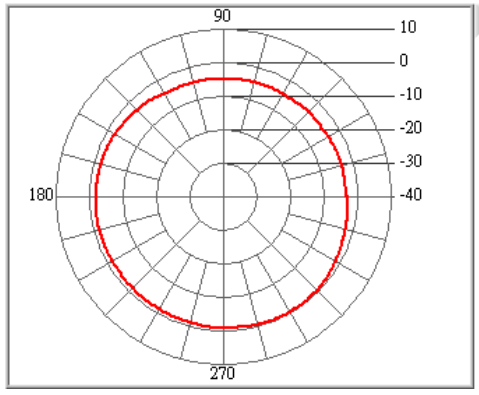


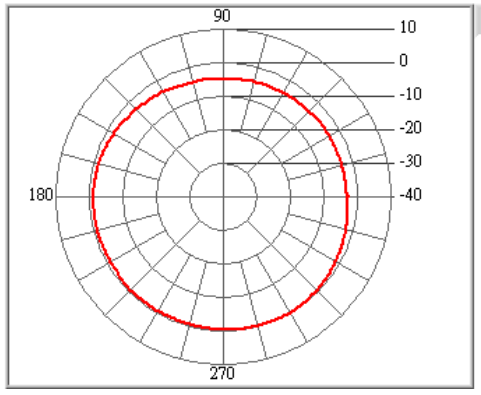


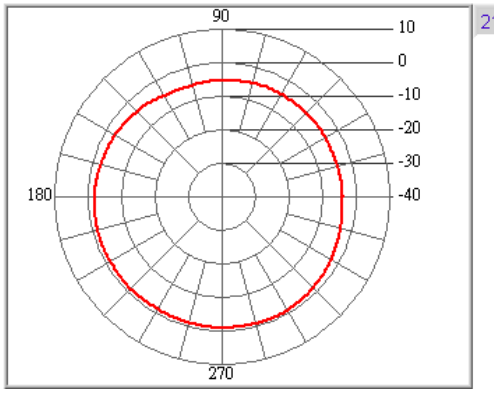












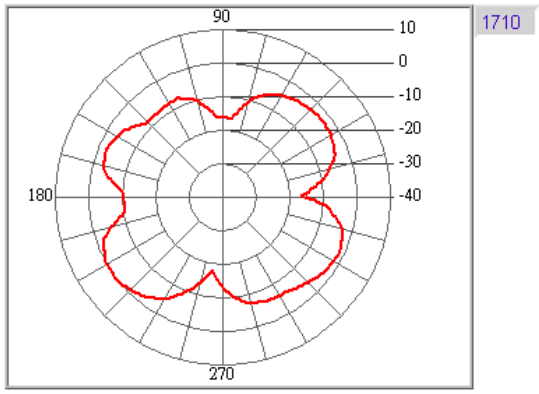
Cortec Technology Inc.

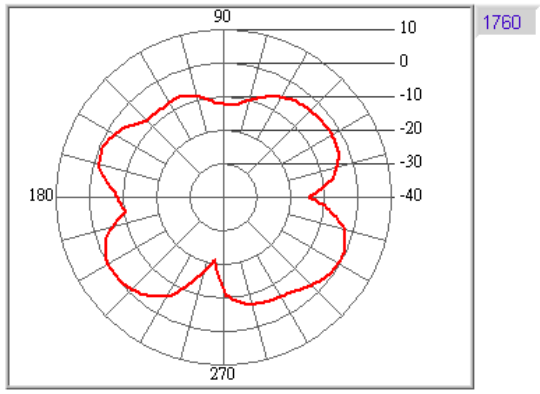
广东省东莞市长安镇振安路沙头段咸西工业区

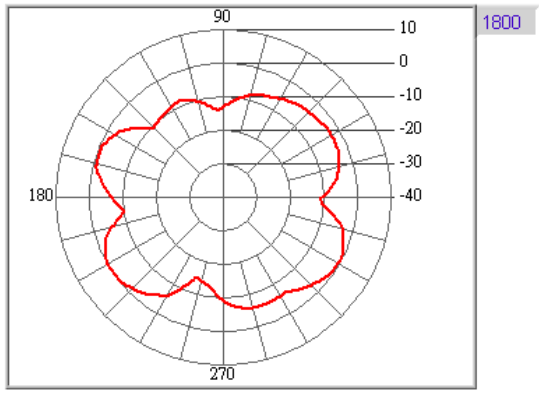
Antenna : 3G Antenna
Remark :E-Plane // H-Pol
Tested by :CORTEC Antenna 3D Lab

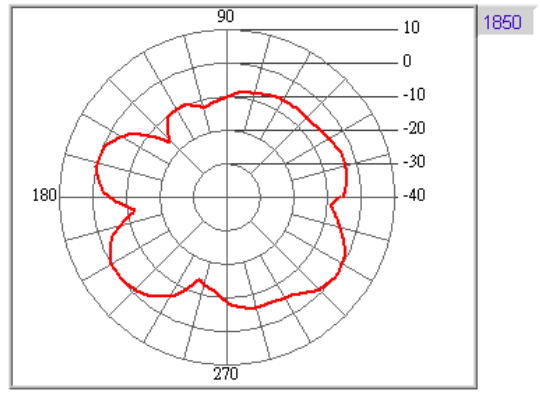
Location: **Chamber**
Date: **2011/7/22**
Time: **上午 09:10:39**
Temperatuer (℃): **25.00**
Humidity (%): **65.00**
Approved by:

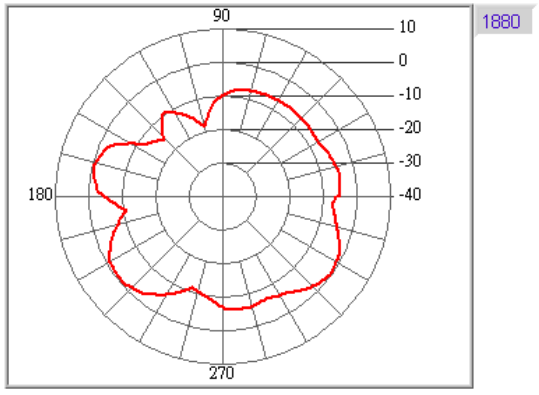
Freq. (MHz)	1710	1760	1800	1850	1880	1900	1950	1990	2030	2100	2120	2170
Peak Gain (dBi)	-0.03	-0.15	-0.23	0.28	-0.43	-0.33	-0.2	-1.18	-0.77	-1.2	-0.7	-1.31
Peak Degree	219	210	210	325	325	219	325	219	178	31	178	21
AV Gain (dBi)	-5.06	-4.59	-4.58	-4.49	-5.11	-5.02	-4.82	-5.09	-4.49	-4.37	-4.25	-5.23

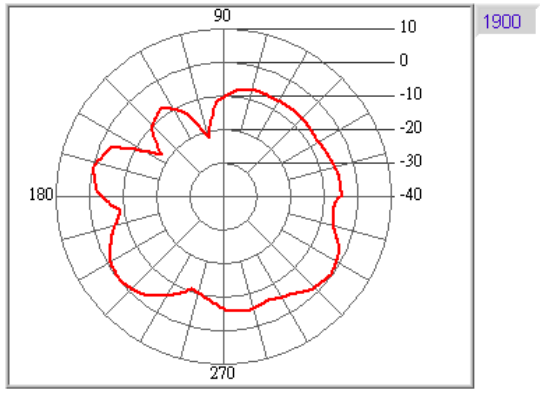


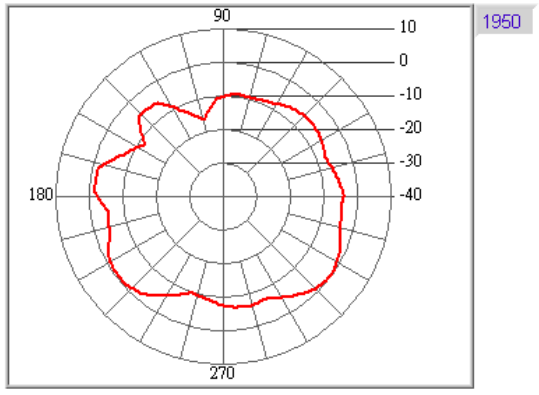


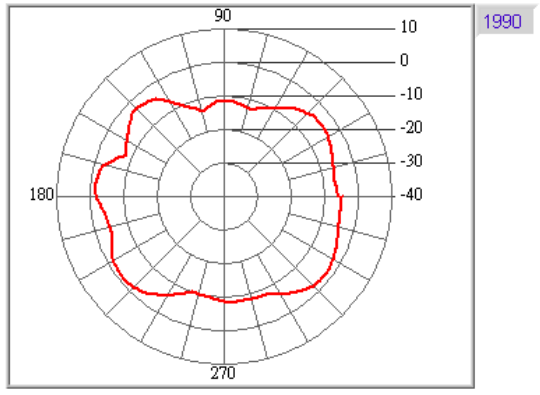


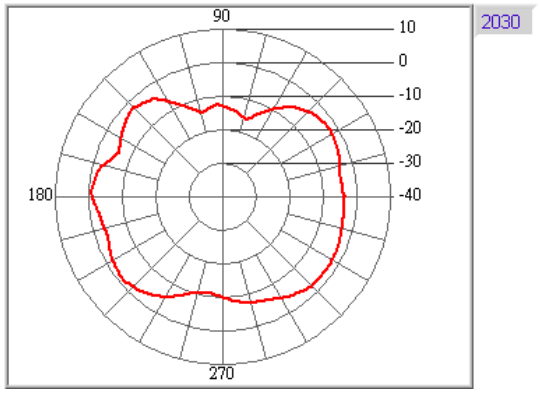


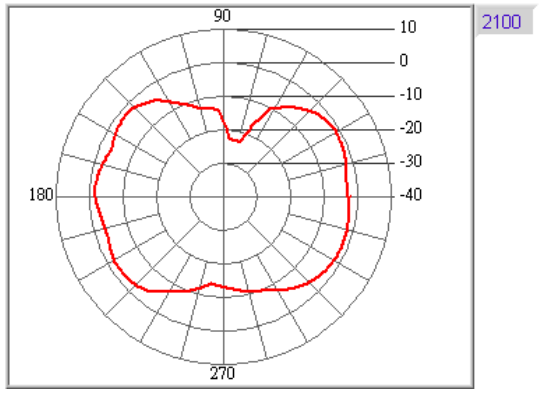


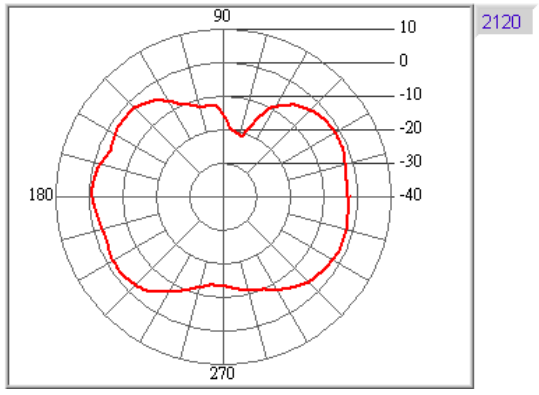


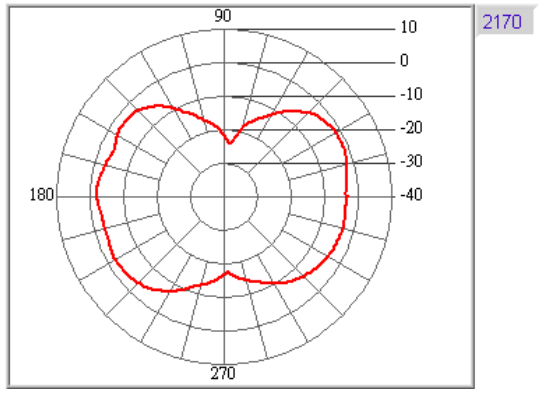








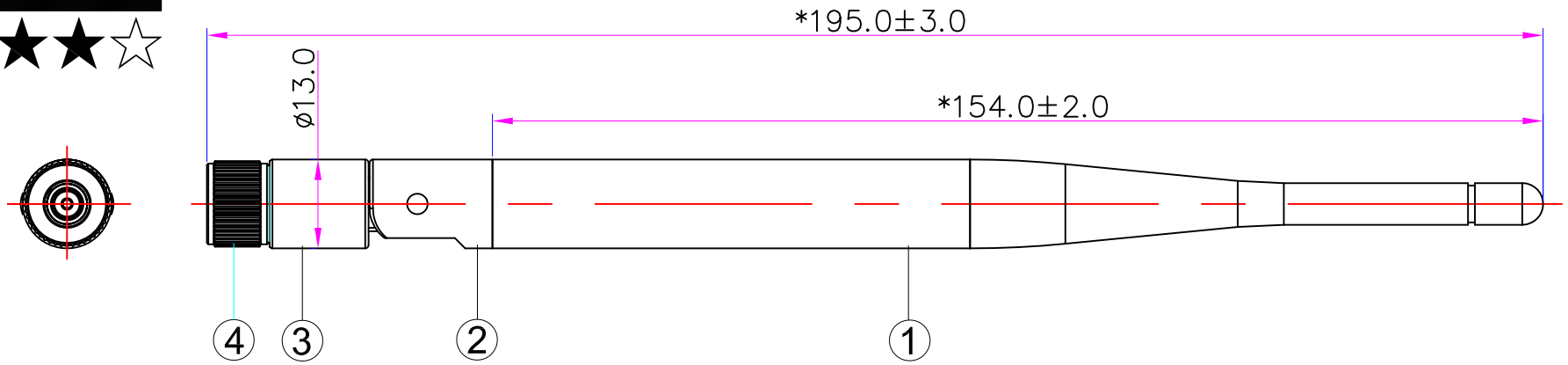


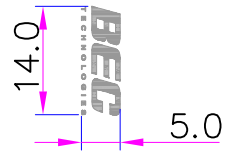


RoHS Compatible

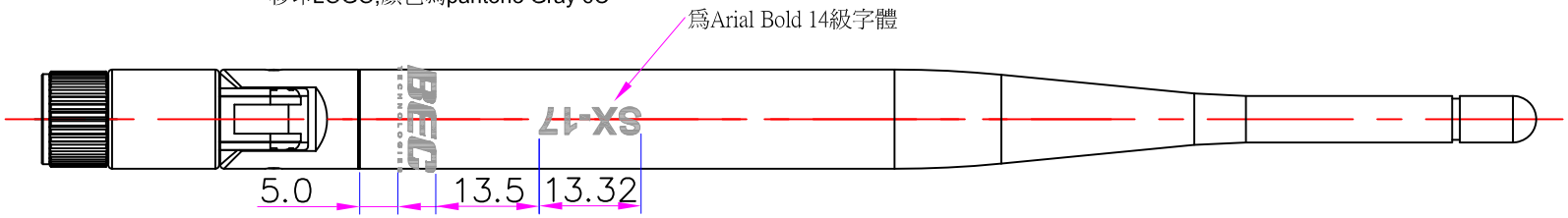
★★★★☆

SIGN	DATE	DESCRIPTION	APPROVER
A			
A			
A			





移印LOGO,顏色為pantone Gray 6C



Note:
1.Take" ＊ "is the important dimension.
2.Tolerance:Unmarked tolerance refer to the standard tolerance please.

No.	Part Number	Description	Material	Finished	Q'ty
4	SMA207-CCT5AN19-A	SMA公頭公針	銅	電著	1
3	AN0304-T07B	連接頭	ABS	黑色	1
2	AN9201-06B	連接筒	ABS	黑色	1
1	AN9201-04B	天線塑膠外套	TPEE	黑色	1

Invax System Group.
Cortec *Cortec Technology Inc.*
Http://www.invaxsystem.com Tel :886-2-27885218
E-mail:info@invax.com.tw Fax:886-2-27831658

TITLE: 3GHz Antenna

PART NO.: AN8921F-9219SM CUSTOMER P/N: /

APP BY	CHK BY	RF BY	DES BY		Tolerance
Grant 2013.06.20	Liukui 2013.06.20		王福彬 2013.06.20	UNITS: mm SCALE: 1/1 REVISION: A	X.X ±0.3 X.XX ±0.2 X° ±1

Invax System Group.

Cortec

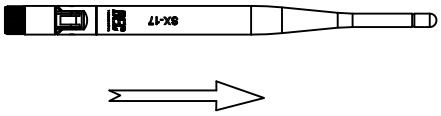
產品包裝規範
PACKING CRITERION

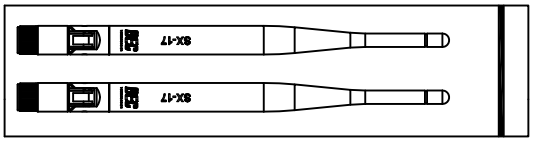
★★★★☆

Date: 2013.06.20

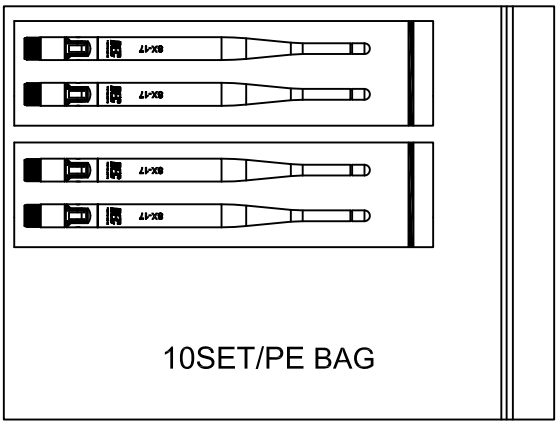
Part Number : AN8921F-9219SM	Revision : A
Name: 3GHz Antenna	Customer : ALL

1.Enter PE BAG。



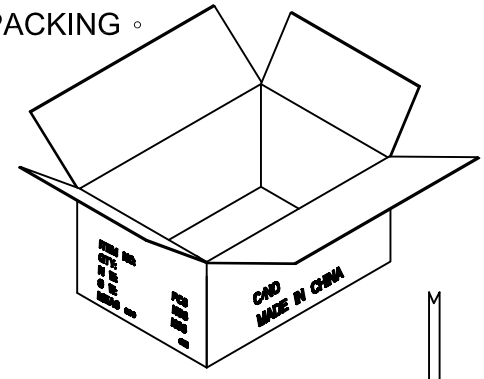


1SET/PE BAG



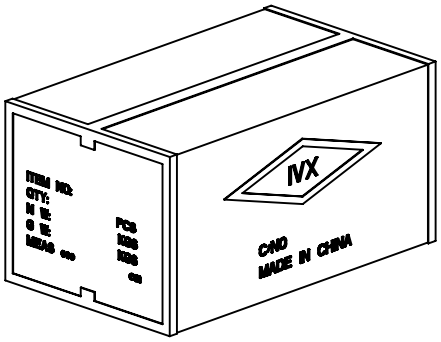
10SET/PE BAG

2.PACKING。

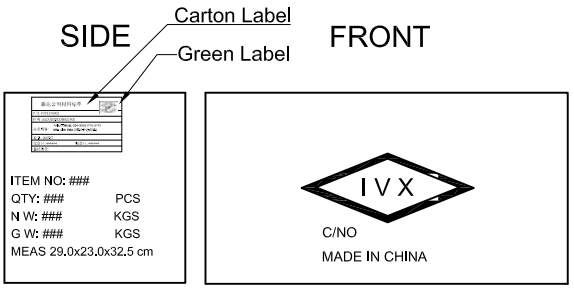


SIZE:29.0x23.0x32.5cm
200SET/BOX

3. SEALING。



SIDE



FRONT

APPROVED BY： Grant　CHECKED BY： Liu Kui　DESIGNED BY： 王福彬

SGS 台灣網站 → http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp
SGS 大陸網站 → http://rsts.cn.sgs.com/chn/cheres_cn.asp
SGS 韓國網站 → http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

請輸入以下報告正確資料及檢查碼以便查核
1. 報告編號
2. 報告日期 (YYYY/MM/DD)
3. 產品名稱 (輸入前 10 個字不含空白)
4. 圖示檢查碼 (依指示畫面)

COR/F-G-47a

Cortec®

康捷電子有限公司	
填表：	時麗
部門：	研發部
職務：	文員

物料中HSF對象物質含量調查表

物料名稱：AN8921F-9219SM

序號	物料型號	物料各構成名稱	各構成物料的材質	測試報告裡RoHS對應物質測試結果						檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs				
1	AN9201-04B	Body	TPEE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RLSZD001081200002C	2012.10.10	TPEE SGS	
2	AN9201-07B	Body2	ABS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	KA/2012/C1575	2013.01.02	ACRYLONITRILE	SGS
3	AN0304-T07B	Body1	ABS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	KA/2012/C1575	2013.01.02	ACRYLONITRILE	SGS
4	SMA194-CCT5AN19-A	SMA Male	銅	66	31000	N.D.	Negative			CE201314616	2013.01.28	FREECUTTINGBRASSBAR	SGS
5	R-AN44340 R-AN6063555	Tube	銅	N.D.	14	N.D.	Negative	N.D.	N.D.	CANML1216541101	2012.12.05	C2700	SGS
6	AN20-45	EVA	EVA	N.D.	62	N.D.	N.D.	N.D.	N.D.	CANEC1303102105	2013.03.19	EVA+gum.	SGS
7	R-RG-178U	Cable RG178	FEP	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RLSHE001125120002C	2012.08.21	电线电缆料	CTI
8			PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RLSHE001125120001C	2012.08.21	电线电缆料	CTI
9			鍍銀銅	N.D.	N.D.	N.D.	Negative	N.D.	N.D.	RLSHE001125120003C	2012.08.21	电线电缆料	CTI

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量

包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度爲5ppm

歐盟ROHS指令豁免條款2009/95/BC、钢中合金元素中的铅含量达0.35%、铝含量达0.4%、铜合金中的铅含量达4%

CHANG CHUN PLASTICS CO LTD
7TH FL, 301 SONGKIANG RD, TAIPEI 104 TW

1163

Thermoplastic Polyester Elastomer (TPEE), furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC, BK	0.8	HB	4	0	50	50	50
	3.0	HB	3	0	50	50	50

Comparative Tracking Index (CTI): 0
High-Voltage Arc Tracking Rate (HVTR): 0
Dielectric Strength (kV/mm): -
Dimensional Stability (%): -
High Volt, Low Current Arc Resis (D495): 4
Volume Resistivity (10^x ohm-cm): -

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2009-06-24
Last Revised: 2009-07-01

Underwriters Laboratories Inc®

IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.8	HB75 (NC, BK)
			3.0	HB40 (NC, BK)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-

ABS

Component - Plastics **E56070**

CHI MEI CORPORATION

59-1 SAN CHIA, JEN TE, TAINAN HSIEN 717 TW

PA-757(+)

Acrylonitrile Butadiene Styrene (ABS), "Polylac", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	1.5	HB	4	0	85	80	85
	3.0	HB	3	0	85	80	85

Comparative Tracking Index (CTI): **0**

Dimensional Stability (%): **-**

High-Voltage Arc Tracking Rate (HVTR): **1**

High Volt, Low Current Arc Resis (D495): **7**

Dielectric Strength (kV/mm): **-**

Volume Resistivity (10^{x} ohm-cm) : **-**

(+) - Optional prefix or suffix; may be used to denote usage of 0-0.5 percent acid scavengers.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1983-06-23

Last Revised: 2011-01-27

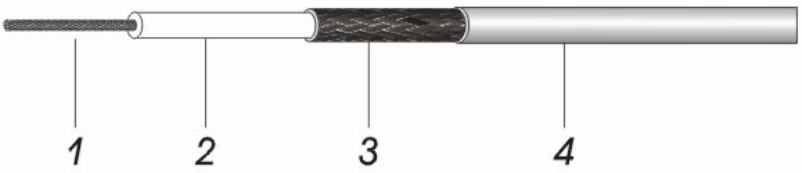
Underwriters Laboratories Inc®

苏州市华诺线缆科技有限公司

电话：0512-65433584　　传真：0512-65438693　　邮编：215137

地址：苏州市相城区太平镇工业园

RG 178



结构参数

	材料	直径(mm)
1. 内导体	镀银铜	7 X 0.102
2. 绝缘体	聚四氟乙烯（PTFE）	0.86
3. 外导体	单层镀银铜线编织	1.30
4. 护套	FEP	1.83

电性能参数

电容(pF/m)	96.45
阻抗(ohm)	50
速率(%)	70
弯曲半径（mm）	10
最大工作电压(VMS)	1000
最大工作频率（MHz）	3000
工作温度范围(℃)	-55 至 +200

衰减（典型值）

频率（MHz）	衰减 (≠dB/m)
100	0.453
400	0.912
1000	1.457
3000	2.572

UL Online Certifications Directory

QMFZ2.E52460
Plastics - Component

Page Bottom

Plastics - Component

See General Information for Plastics - Component

DAIKIN INDUSTRIES LTD E52460
YODOGAWA PLANT
CHEMICAL DIV, POLYMER PRODUCTION DEPT
1-1 NISHI-HITOTSUYA
SETTSU-SHI, OSAKA 566-8585 JAPAN

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	RTI Elec	RTI Mech Imp	RTI Mech Str	H V T R	D 4 9 5	C T I
Ethylene/Tetraflouroethylene (E/TFE), "Neoflon", furnished as pellets.											
EP-520	NC	1.5 ONLY	V-0	-	-	50	50	50			
EP-540	NC	1.5	V-0	-	-	50	50	50			
Ethylene/Tetraflouroethylene (E/TFE), furnished as pellets.											
EP-521	NC	1.5	V-0	-	-	50	50	50			
EP-522	NC	1.5	V-0	-	-	50	50	50			
EP-522BU	BL	1.5	V-0	-	-	50	50	50			
EP-541	NC	1.5	V-0	-	-	50	50	50			
Florinated Ethylene Propylene (FEP), furnished as pellets, powder.											
NP-100	NC	1.7	V-0	-	-	150	150	150			
		3.2	V-0	-	-	150	150	150			
NP-100H	NC	1.5 ONLY	V-0	-	-	150	150	150			
NP-101	NC	1.1	V-0	-	-	150	150	150			
		3.3	V-0	-	-	150	150	150			
NP-120	NC	1.7	V-0	-	-	150	150	150			
		3.3	V-0	-	-	150	150	150			
NP-12X	NC	1.5	V-0	-	-	150	150	150			
		3.0	V-0	-	-	150	150	150			
NP-20	NC	1.5 ONLY	V-0	-	-	150	150	150			
NP-20PW	NC	1.5 ONLY	V-0	-	-	150	150	150			
NP-21	NC	1.5 ONLY	V-0	-	-	150	150	150			
NP-22	NC	1.5 ONLY	V-0	-	-	150	150	150			
NP-23	NC	0.75 ONLY	V-0	-	-	150	150	150			

NP-30	NC	1.5 ONLY	V-0	-	-	150	150	150			
NP-40	NC	1.5 ONLY	V-0	-	-	150	150	150			
SP-100	NC	1.5 ONLY	V-0	-	-	150	150	150			
SP-120	NC	1.5 ONLY	V-0	-	-	150	150	150			
Florinated Rubber (FR), "Daiel", furnished as sheets.											
DC-7026023H	GY	0.75	V-0	-	-	50	50	50			
		2.0	V-0	-	-	50	50	50			
Perfluoro Alkoxyl Alkene (PFA), "Neoflon", furnished as pellets.											
AP-210, AP-230											
	NC	0.81 ONLY	V-0	3	3	50	50	50	0	4	0
AP-210BK	BK	0.38	V-0	-	-	50	50	50			
		1.5	V-0	-	-	50	50	50			
AR-6020	BK	0.89 ONLY	V-0	-	-	50	50	50			
AR-6040	BK	0.75	V-0	-	-	50	50	50			
		1.5	V-0	-	-	50	50	50			
PFA AP-201	NC	0.38	V-0	-	-	50	50	50			
		0.75	V-0	-	-	50	50	50			
		1.5	V-0	-	-	50	50	50			
Polychlorotrifluorethylene (PCTFE), "Neoflon", furnished as pellets, powder.											
M-300H+	NC	0.75	V-0	3	0	150	150	150	0	4	
		1.5	V-0	2	0	150	150	150			
		3.0	V-0	1	0	150	150	150			
M-300P+	NC	0.75	V-0	3	0	150	150	150	0	4	
		1.5	V-0	2	0	150	150	150			
		3.0	V-0	1	0	150	150	150			
M-400H+	NC	0.75	V-0	3	0	150	150	150	0	4	
		1.5	V-0	2	0	150	150	150			
		3.0	V-0	1	0	150	150	150			
Polyphenylene Sulfide/Polytetrafluorethylene (PPS/PTFE), "Neoflon", furnished as pellets.											
SA-7600	GY	0.75	V-0	-	-	50	50	50			
		1.5	V-0	-	-	50	50	50			
Polytetrafluorethylene (PTFE), "Polyflon", furnished as powder.											
M-532	NC	0.9-1.4	V-0	-	-	180	180	180			
Polytetrafluorethylene (PTFE), furnished as pellets.											
F-205	NC	0.84	V-0	-	-	180	180	180			
		1.5	V-0	-	-	180	180	180			
Polytetrafluorethylene (PTFE), furnished as powder.											
F-201, F-202, F-203											
	NC	0.81	V-0	-	4	180	180	180		4	0
		1.5	V-0	-	4	180	180	180			

M-111	NC	0.050	VTM-0	-	-	180	180	180			
		0.060	VTM-0	-	-	180	180	180			
		0.75	V-0	-	-	180	180	180			
M-112	NC	0.067	V-0	-	-	180	180	180			
		0.75	V-0	-	-	180	180	180			
M-12, M-15, M-24, M-25, M-31, M-32, M-33											
	NC	0.81	V-0	1	2	180	180	180	0	4	0
		1.5	V-0	1	2	180	180	180			
M-137	NC	0.072	V-0	-	-	180	180	180			
		0.75	V-0	-	-	180	180	180			
MG-1040F	NC	0.90	V-0	-	-	180	180	180			
		3.0	V-0	-	-	180	180	180			

+ - For the HWI property PLC equals time to melt, no ignition.

Marking: Company name and material designation on container, wrapper or finished part.
Last Updated on 2005-04-13

Questions? Notice of Disclaimer Page Top