苏州硕天通讯器材有限公司
Suzhou Soant Communication Equipment Co.,Ltd

承认书

SPECIFICATION FOR APPROVAL

客户名称
Customer: _____

产品名称
Product Name: **2.4G PCB 天线**

规格描述
Description: **2.4G PCB（38*7.5*0.2）TO I-pex(GF) To RF-1.13 Black Cable L=180mm**

客户料号
CUSTP/N: _____

硕天料号
SOANT.P/N: STPCA387518IBA301

发出日期
Approval Date: 2017 年 02 月 21 日

核准 **Approved**	审核 **Checked By**	制作 **Made By**
	尹希兵	李秀娟

客户承认
Customer Approve

核准 **Approved**	审核 **Checked By**	承办 **Undertake By**

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承认书变更履历表

No.	原版	变更日期	变更内容	变更项目描述
1	A	2017-2-21	新增	----------

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TECHNICAL DATE

BT Antenna Assembly

1.Electrical Specifications

1.1 Frequency Ranges ……. 2.4~2.5GHz

1.2 Impedance ……. 50Ω

1.3 VSWR…….. 2.0max

1.4 Return Loss…….. -10dBmax

2. Physical Properties

2.1 Cable Type ……Φ1.13mm Coaxial

2.2 Cable Color……BLACK

2.3 Cable Attenuations ……1.8dB/m @ 1.0GHz

2.6dB/m @ 2.0GHz

3.7dB/m @ 3.0GHz

4.8dB/m @ 4.0GHz

5.2dB/m @ 5.0GHz

6.4dB/m @ 6.0GHz

2.4 PCB Metal ……FR-4

2.5Operating Temperature ……-20℃ ~ +65℃

2.6Storage Temperature …… …… -30℃ ~ +75℃

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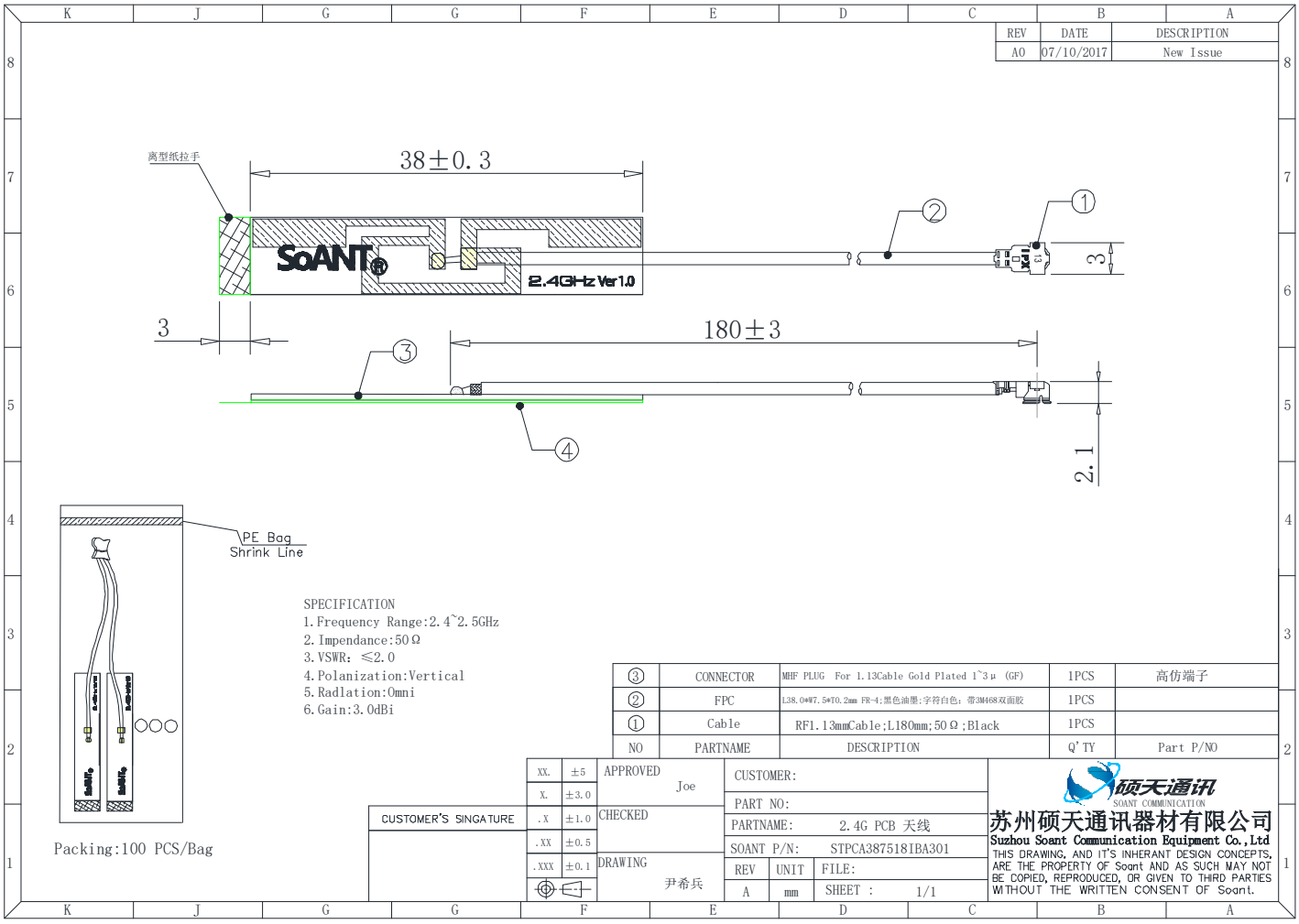
工程图：


REV | DATE | DESCRIPTION
A0 | 07/10/2017 | New Issue
离型纸拉手
38±0.3
SoANT
2.4GHz Ver1.0
3
180±3
2.1
PE Bag
Shrink Line
SPECIFICATION
1.Frequency Range:2.4~2.5GHz
2.Impendance:50Ω
3.VSWR: ≤2.0
4.Polanization:Vertical
5.Radlation:Omni
6.Gain:3.0dBi
Packing:100 PCS/Bag
③ CONNECTOR MHF PLUG For 1.13Cable Gold Plated 1~3μ (GF) 1PCS 高仿端子
② FPC L38.0*W7.5*T0.2mm FR-4;黑色油墨;字符白色；带3M468双面胶 1PCS
① Cable RF1.13mmCable;L180mm;50Ω;Black 1PCS
NO PARTNAME DESCRIPTION Q'TY Part P/NO
CUSTOMER'S SINGATURE
XX. ±5
X. ±3.0
.X ±1.0
.XX ±0.5
.XXX ±0.1
APPROVED Joe
CHECKED
DRAWING 尹希兵
CUSTOMER:
PART NO:
PARTNAME: 2.4G PCB 天线
SOANT P/N: STPCA387518IBA301
REV A
UNIT mm
FILE:
SHEET : 1/1
硕天通讯 SOANT COMMUNICATION
苏州硕天通讯器材有限公司
Suzhou Soant Communication Equipment Co.,Ltd
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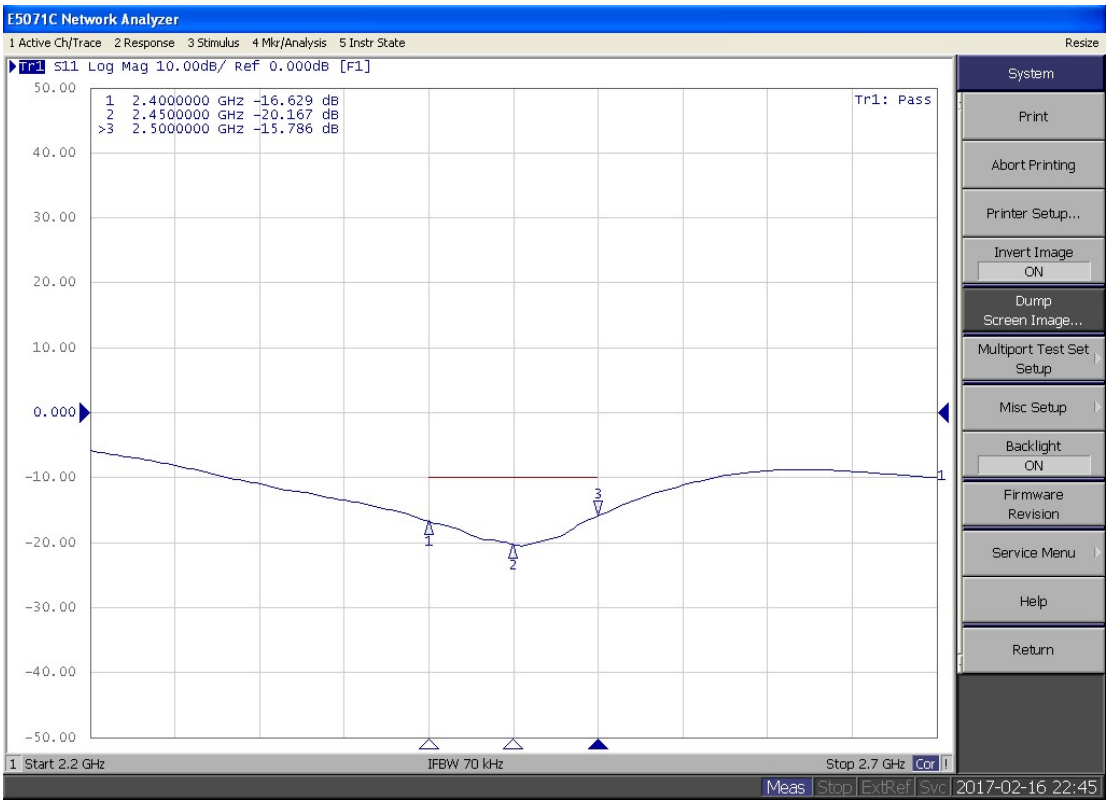
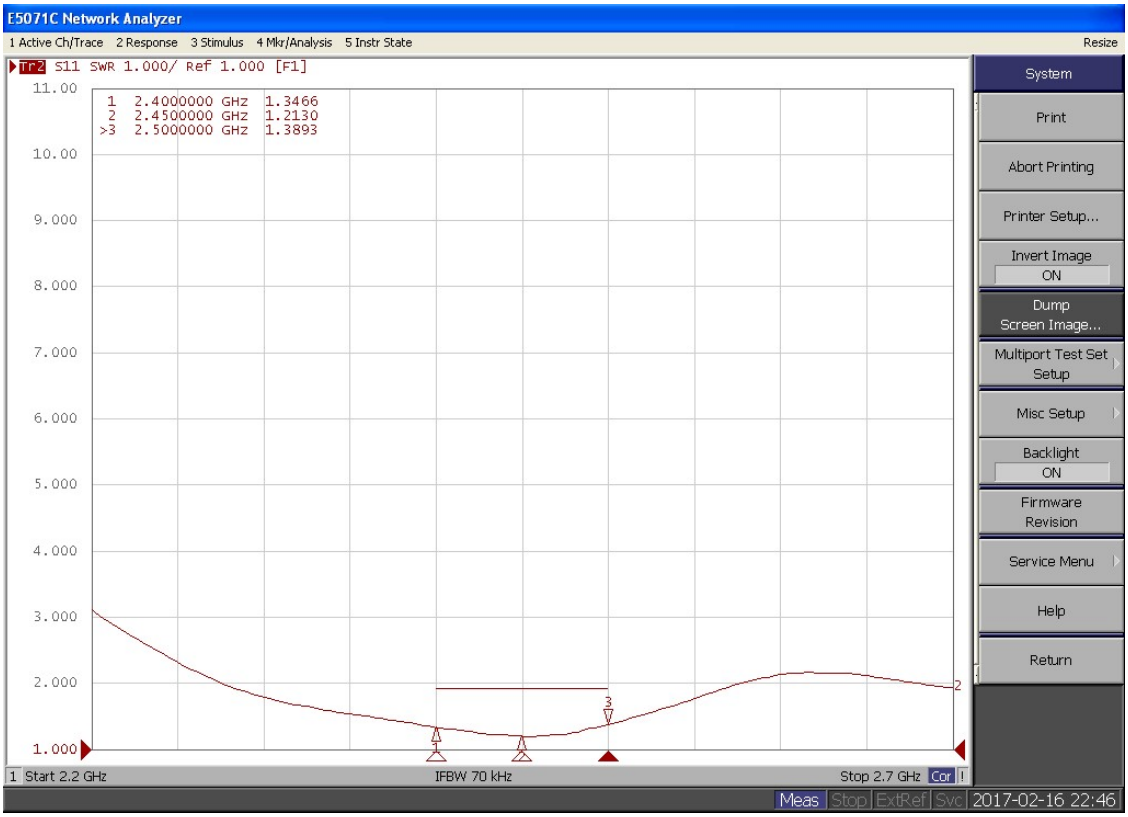
测试报告

Return Loss:



V.S.W.R



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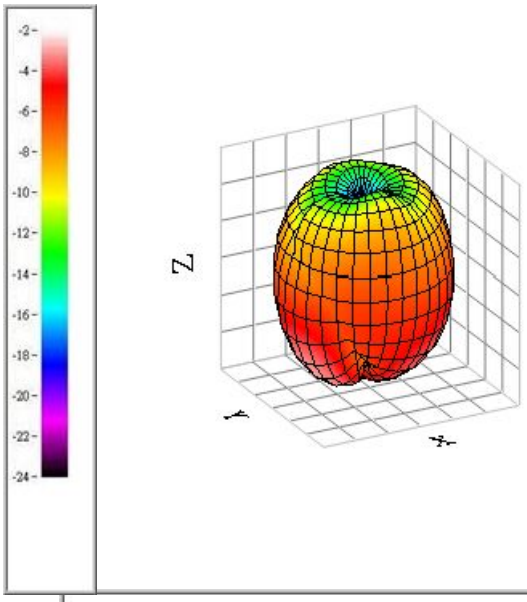
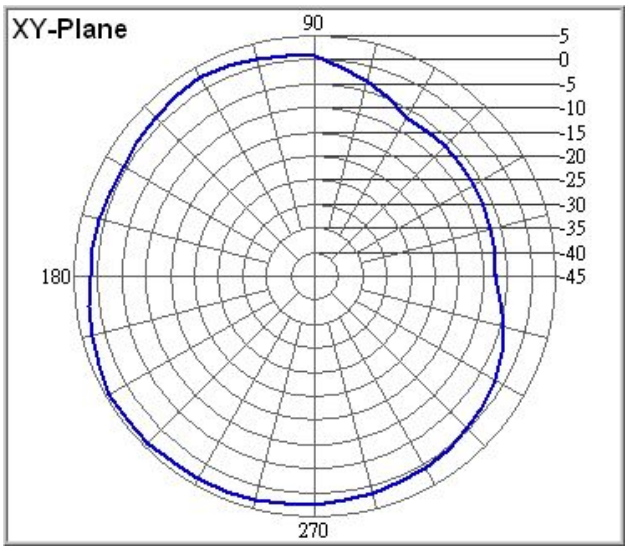
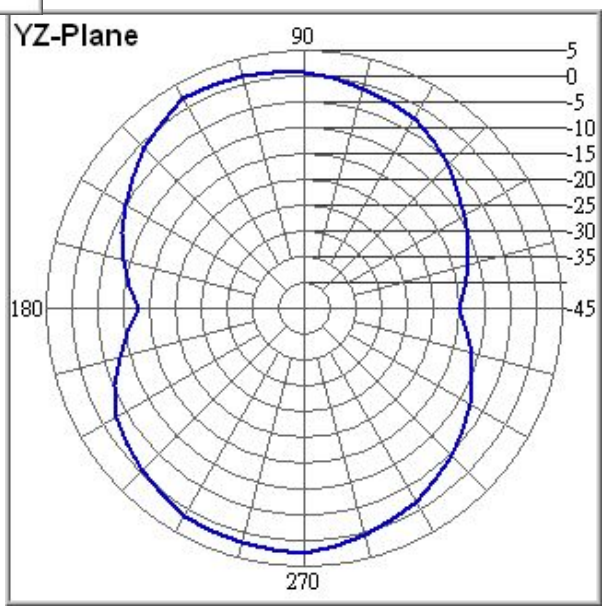
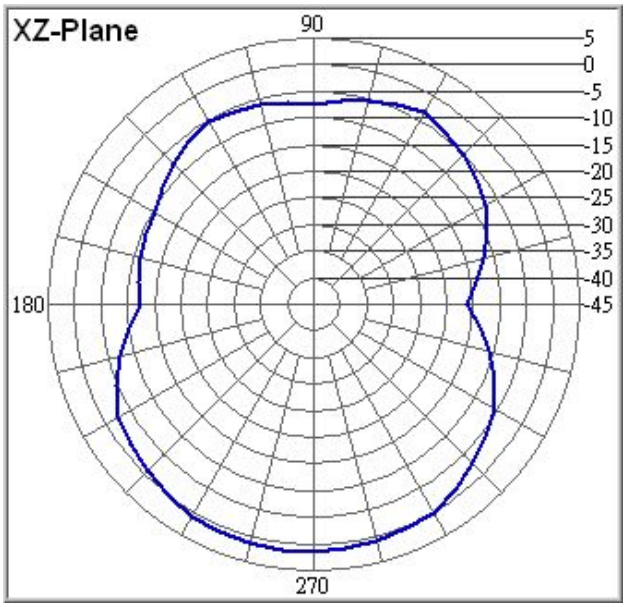
Frequency = 2400 MHz

dBm	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	4.138122	1.541986	2.344337
V-Pol. (Peak.)	-7.999004	-10.830696	-7.999004
H+V. (Peak.)	4.141678	1.593585	2.399362
H-Pol. (Avg.)	0.783414	-3.376923	-1.771325
V-Pol. (Avg.)	-13.105059	-14.510229	-13.984869
H+V. (Avg.)	0.95728	-3.054639	-1.517986
Angle	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	210	270	270
V-Pol. (Peak.)	90	240	90
H+V. (Peak.)	210	270	270









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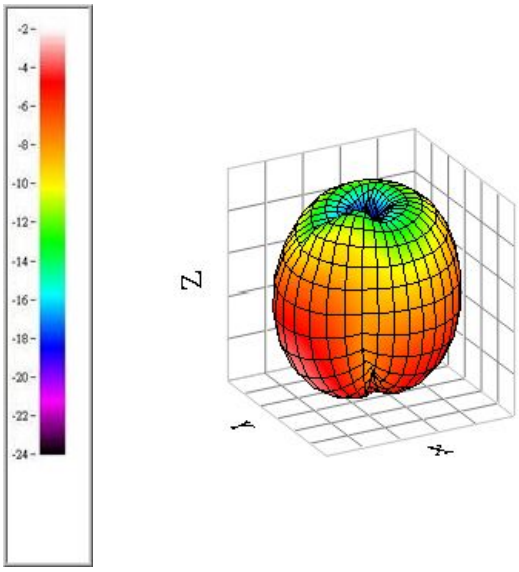
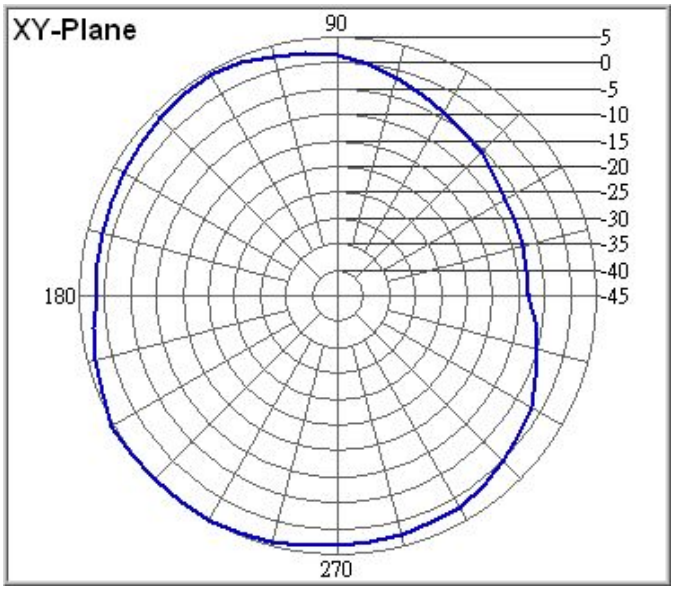
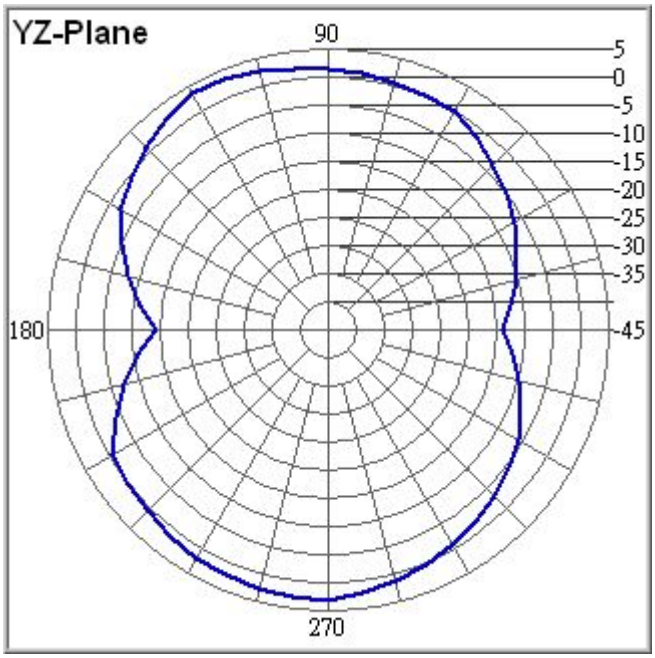
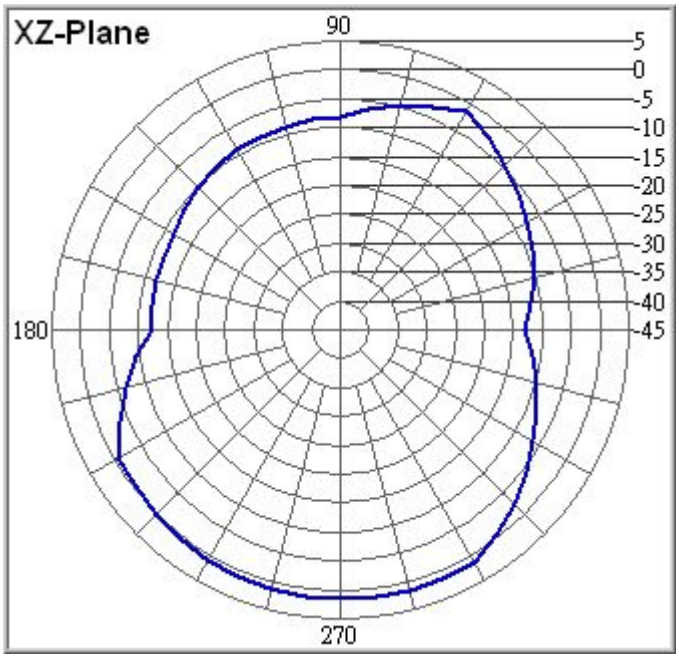
Frequency = 2450 MHz

dBm	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	5.361914	1.552464	3.589634
V-Pol. (Peak.)	-7.878981	-7.486785	-9.210093
H+V. (Peak.)	5.362791	1.627744	3.754486
H-Pol. (Avg.)	1.907404	-2.961612	-0.412159
V-Pol. (Avg.)	-13.182841	-13.704806	-14.406141
H+V. (Avg.)	2.039875	-2.610232	-0.242385
Angle	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	210	270	120
V-Pol. (Peak.)	120	210	90
H+V. (Peak.)	210	300	120









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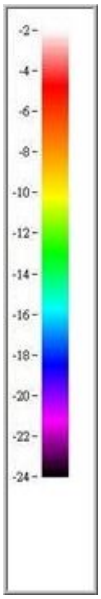
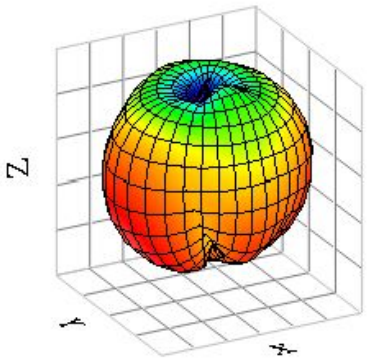
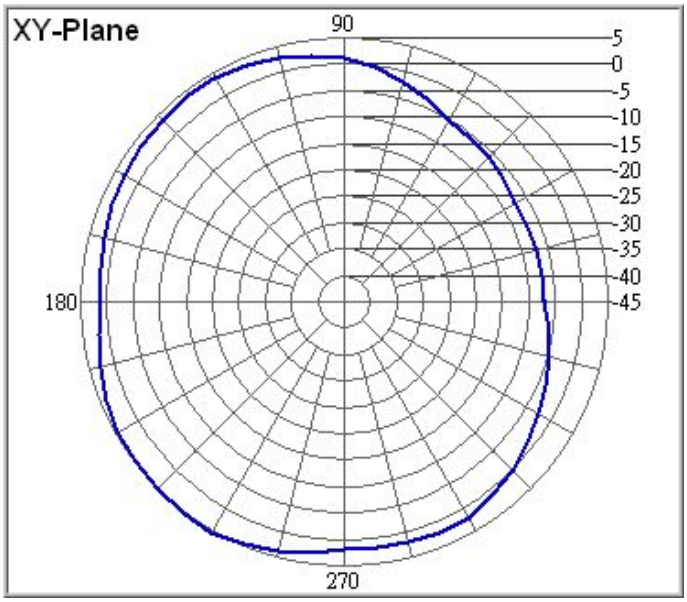
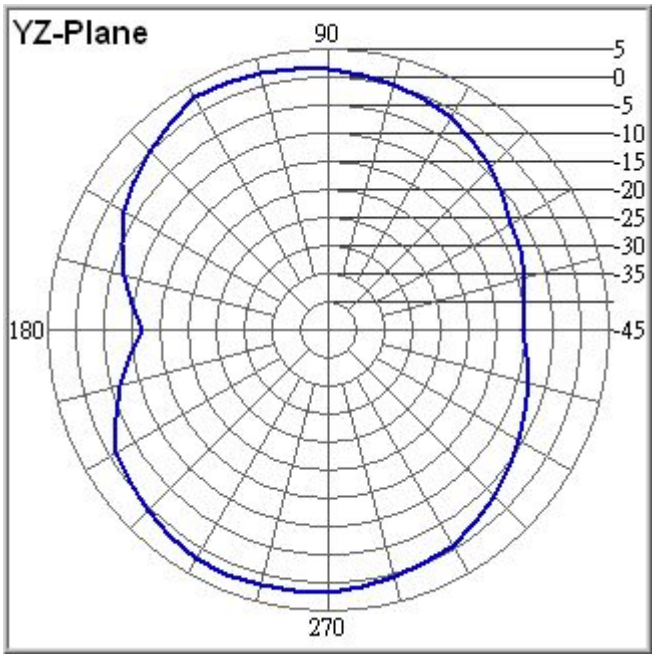
Frequency = 2500 MHz

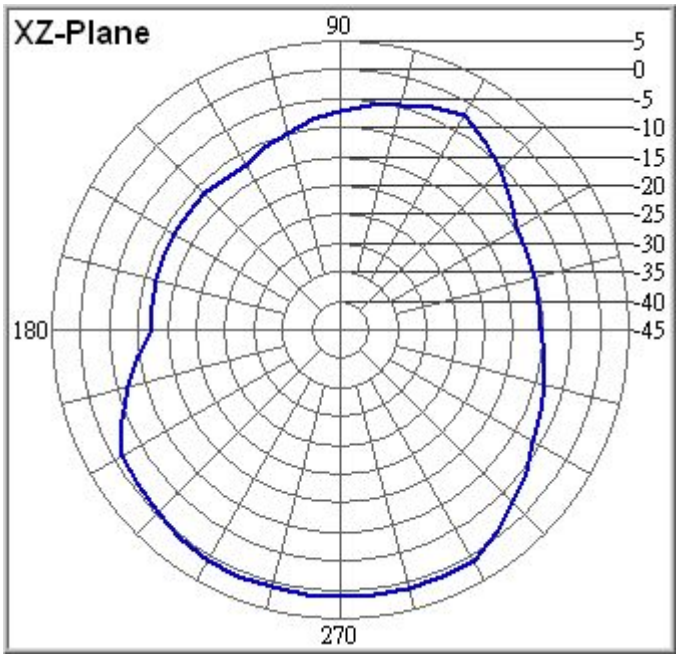
dBm	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	5.591316	1.214863	2.960606
V-Pol. (Peak.)	-9.346767	-8.649417	-12.179206
H+V. (Peak.)	5.602422	1.284218	3.042904
H-Pol. (Avg.)	1.729659	-3.322081	-0.949094
V-Pol. (Avg.)	-14.343192	-13.763179	-14.828232
H+V. (Avg.)	1.835631	-2.946453	-0.774861
Angle	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	240	300	120
V-Pol. (Peak.)	300	210	300
H+V. (Peak.)	240	300	120











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3D Total Date

Total/ Frequency	Ant. Port Input	Tot.Rad.Pwr. (dBm)	PeakEIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	0	-0.98513	4.141678	5.126802	-0.98513	79.705358	4.141678
2437	0	-0.54022	4.946598	5.486816	-0.54022	88.303555	4.946598
2442	0	-0.54719	4.742009	5.289199	-0.54719	88.161917	4.742009
2450	0	0.083789	5.362791	5.279002	0.083789	98.948045	5.362791
2484	0	-0.09264	5.262933	5.355568	-0.09264	97.88958	5.262933
2500	0	-0.27091	5.602422	5.873335	-0.27091	93.952579	5.602422

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