

# 承認書

## APPROVAL SHEET

客戶名稱： 精英電腦股份有限公司  
CUSTOMER  
品名： ANTENNA SET.LCD...600.VSO  
DRAWING NAME  
鴻呈料號： 912P09-I2B0A01-00  
VSO PART NO.  
客戶料號： 13-130-F53021  
CUSTOMER PART NO.

APPROVAL BY

業務部門

SALES DIV.:

品管部門

QC DIV.:

工程部門

TECHNIQUE DIV.:

採購部門

PARCHASE DIV.:



吳淑美

洪麗雯

CUSTOMER APPROVEAL

業務部門

SALES DIV.:

品管部門

QC DIV.:

工程部門

TECHNIQUE DIV.:

採購部門

PARCHASE DIV.:

鴻呈實業股份有限公司

台北縣中和市員山路 581 巷 31 弄 1-8 號 4 樓 TEL: (02)3234-3038 FAX: (02)3234-3056  
4F.,NO.1-8 ALLEY31, LANE581, YUEN-SHAN RD., CHUNG-HO CITY, TAIPEI HSIEN,  
TAIWAN R.O.C.

**2.4GHz ~5.85GHz Dual Band PIFA antenna.**

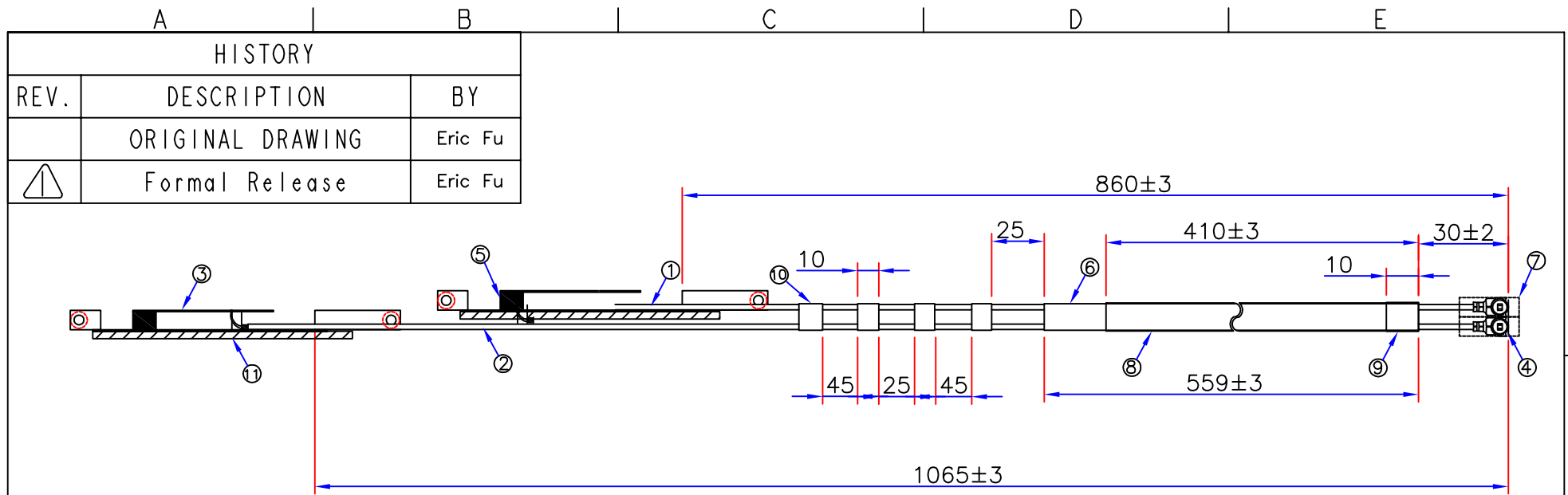
**FOR NB WLAN802.11a+b+g : Antenna Assembly**

Specification

- 1.1 Frequency Rang.....2.4Ghz~5.85Ghz
- 1.2 Impedance .....50Ω Nominal
- 1.3 VSWR.....VSWR ≤ 2
- 1.4 Return loss..... RL ≤ -10dB
- 1.5 Gain..... 0dbi

Physical Properties

- 2.1 Cable..... § 1.13 50Ω
- 2.2 Operating Temp..... -20c° ~+65c°
- 2.3 Pifa body..... Pifa body NI-PLATED.
- 2.4 Col or..... Bl ack
- 2.5 Col or..... Gray



NOTE: 用網絡分析儀測試  
未標示尺寸公差均為±2

⑪	導電泡棉	L55*W5.5*H3.0mm	2PCS
⑩	醋酸膠布	L5*W10*0.1mm	4PCS
⑨	熱縮套管	φ4.0*10mm,V4?, color: ??? VSO;??? HIGH-TEK	1PCS
⑧	熱縮套管	φ2.5*430mm,BLACK,V4薄	1PCS
⑦	TUBE	透明套管:φ3.1*20mm	2PCS
⑥	導電膠布	L550*W10*0.1mm	1PCS
⑤	支撐膠	EVA支撐膠, BLACK	2PCS
④	CONN	I-PEX TERM GOLD-PLATED	2PCS
③	PIFA BODY	METAL CAN NICKET PLATED	2PCS
②	RF CABLE	CABLE:φ1.13 COAXIAL CABLE,COLOR:BLACK	1PCS
①	RF CABLE	CABLE:φ1.13 COAXIAL CABLE,COLOR:GARY	1PCS
ITEM		DESCRIPTION	Q'TY

2	13-130-F53011	*	ANTENNA SET.LCD...600.HIGH-TEK	
1	13-130-F53021	*	ANTENNA SET.LCD...600.VSO.	
ITEM	PART NO.	CUSTOMER NO.	DESCRIPTION	REMARK

**ECS CORPORATION**

MODEL	600			
NAME	ANTENNA SET.LCD...600			APPROVAL: Jason Chen
MATERIAL	*	UNIT	mm	PROJECT LEADER: C.H.Lin
FINISH	*	SCALE	1:1	CHECK: Rich Lee
	THE 3RD PROJECEION		DO'NT SCALE DRAWING	DRAWN: Eric Fu
	DWG. NO.	G600-3-4-05	DATE 02-MAR-05	REVISION 1.0
				SHEET 1/1

ANGLE	±1/4°
DIM.	TOL. ±
0-10	0.05
10-50	0.10
50-100	0.15
100↗	0.20

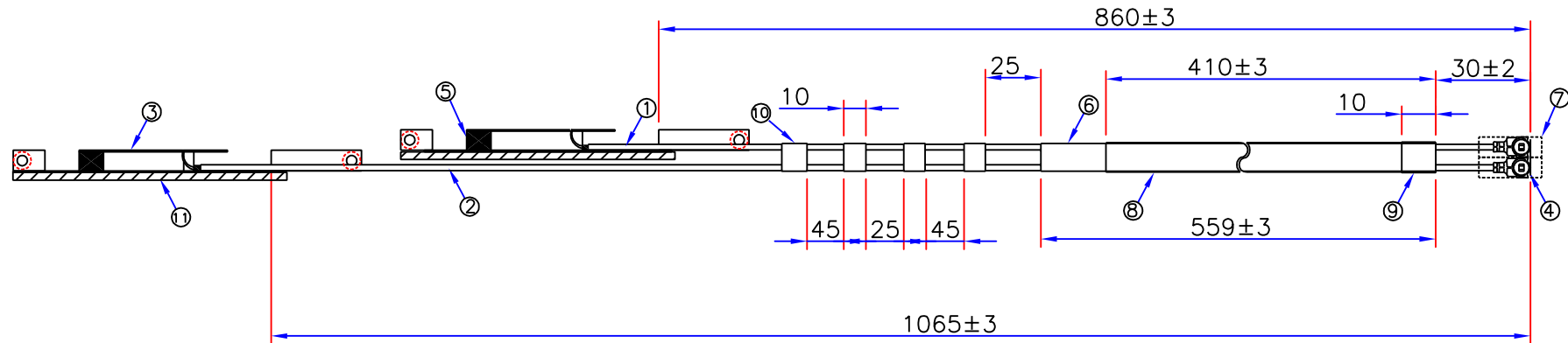
Stage
MP

DRAW ID  
CD

THIS DRAWING IS CONTROLLED DOCUMENT FOR VSO LTD IT IS SUBJECT TO CHANGE AND THE CONTROLLING ENGINEERING ORGANIZATION SHOULD BE CONTACTED FOR THE LATEST REVISION

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REVISION			
REV.	DESCRIPTION	APPROVAL	DATE
C	增加醋酸布一段以及變更導電泡棉所貼位置		05.03.03



⑩	導電泡棉	L55*W5.5*H3.0mm	2PCS
⑩	醋酸膠布	L5*W10*0.1mm	4PCS
⑨	熱縮套管	φ4.0*10mm RED V4薄	1PCS
⑧	熱縮套管	φ2.5*410mm, BLACK, V4薄	1PCS
⑦	TUBE	透明套管: φ3.1*20mm	2PCS
⑥	導電膠布	L559*W10*0.1mm	1PCS
⑥	支撐膠	EVA支撐膠, BLACK	2PCS
④	CONN	I-PEX TERM GOLD-PLATED	2PCS
③	PIFA BODY	METAL CAN NICKET PLATED	2PCS
②	RF CABLE	CABLE:φ1.13 COAXIAL CABLE,COLOR:BLACK	1PCS
①	RF CABLE	CABLE:φ1.13 COAXIAL CABLE,COLOR:GARY	1PCS
ITEM	DESCRIPTION		Q'TY

NOTE: 用網絡分析義測試  
未標示尺寸公差均為±2

<b>VSO</b> ELECTRIC CO.,LTD.		
CUST. P/N: 13-130-F53021		DRAW.:
TITLE: PIFA ANTENNA		ENGIN:
UNITS mm	DWG. NO.: 912P09-I2B0A01-00	REV. C
		CHECK:
		APPR.:

4

3

2

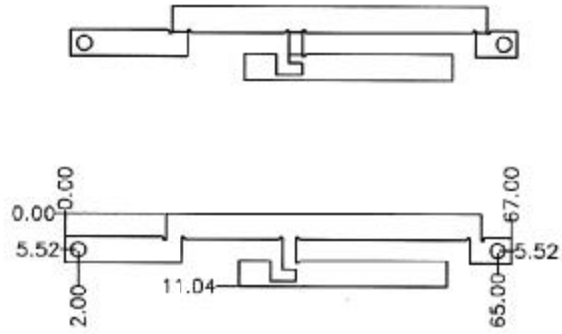
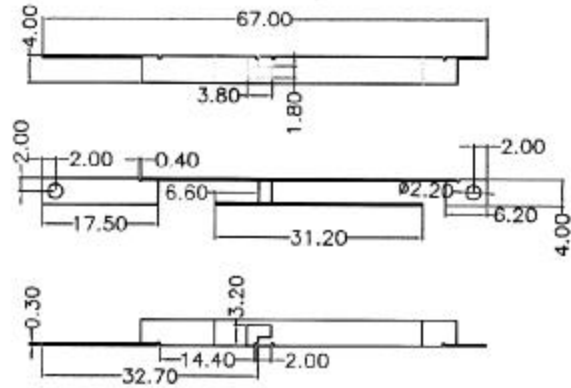
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DRAW ID  
CD

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REVISION			
REV.	DESCRIPTION	APPROVAL	DATE



NOTE:  
PIFA BODY: 馬口鐵, NI-PLATED.

XX.	±0.5	V <sup>SO</sup> ELECTRIC CO.,LTD.	CUST. P/N:	DRAW: <i>Suner</i>
X.	±0.3			
.X	±0.1	TITLE:	PIFA BODY	ENGIN: <i>Jun 10</i>
.XX	±0.05	UNITS	DWG. NO.:	CHECK: <i>Jun 10</i>
		mm	200-00001-076	APPR: <i>林長青</i>
			REV. V2.0	

4

3

2

1

D

C

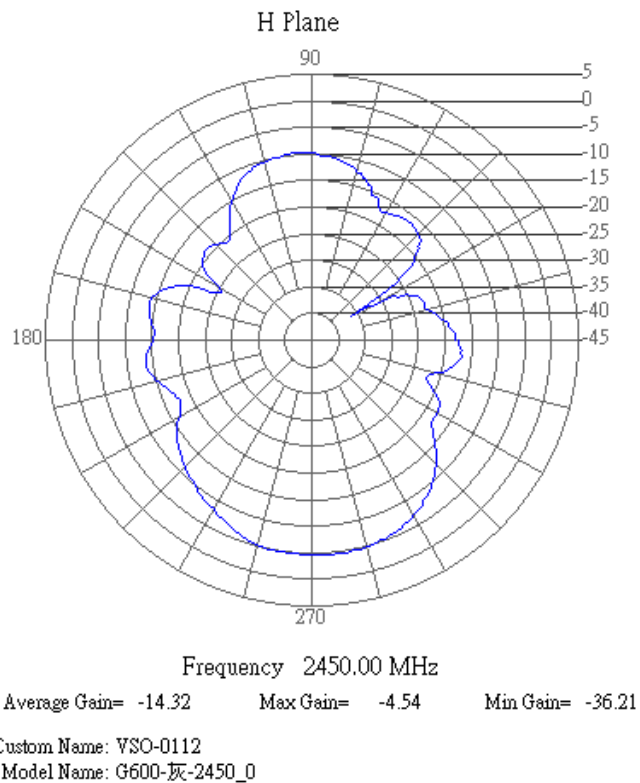
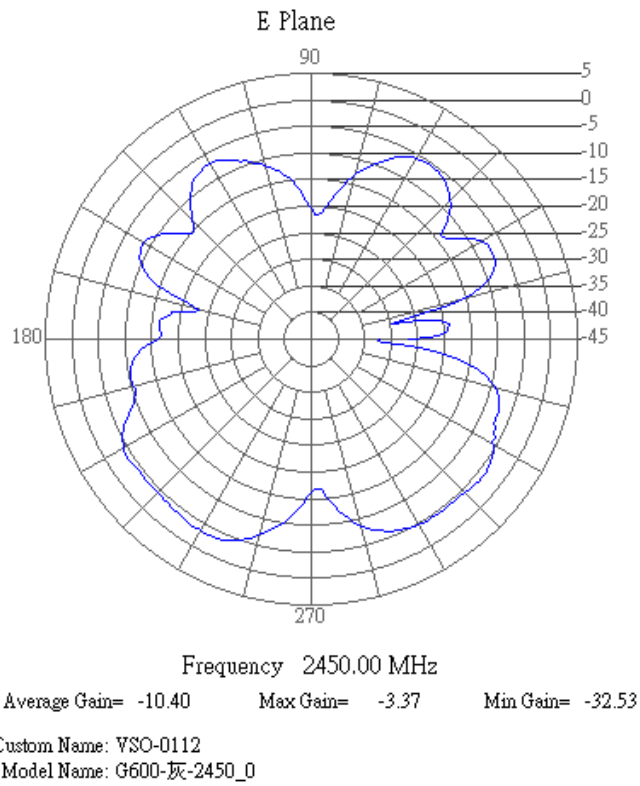
B

A

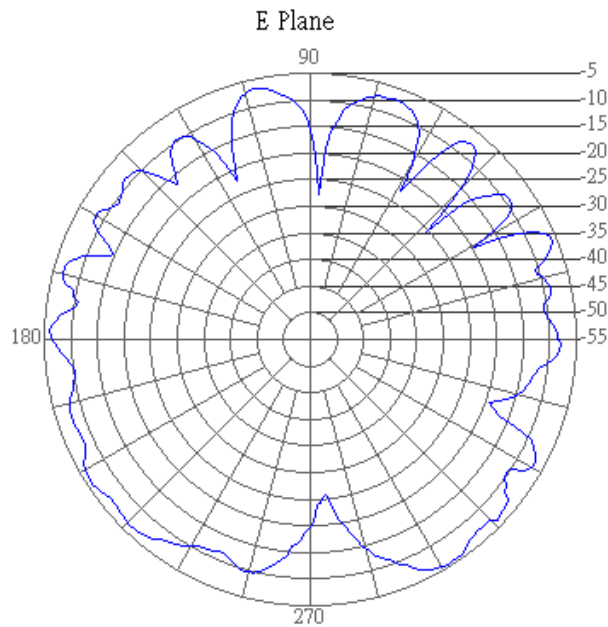








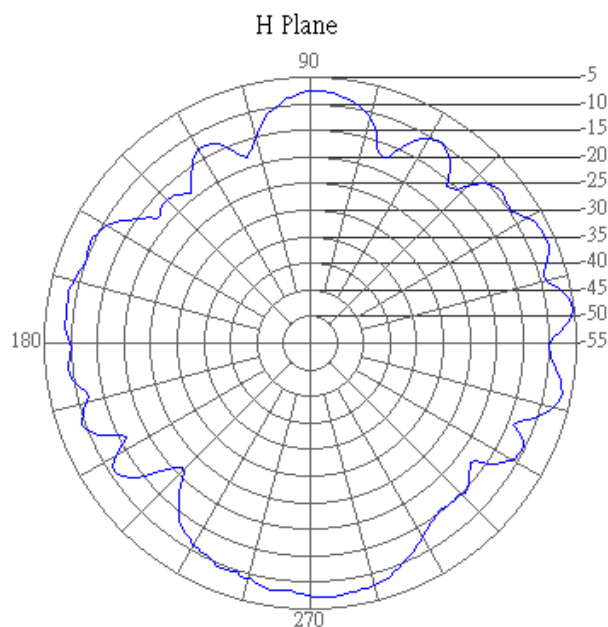




Frequency 5150.00 MHz

Average Gain= -10.64    Max Gain= -5.42    Min Gain= -27.75

Custom Name: VSO-0112  
Model Name: G600-灰-5150\_0



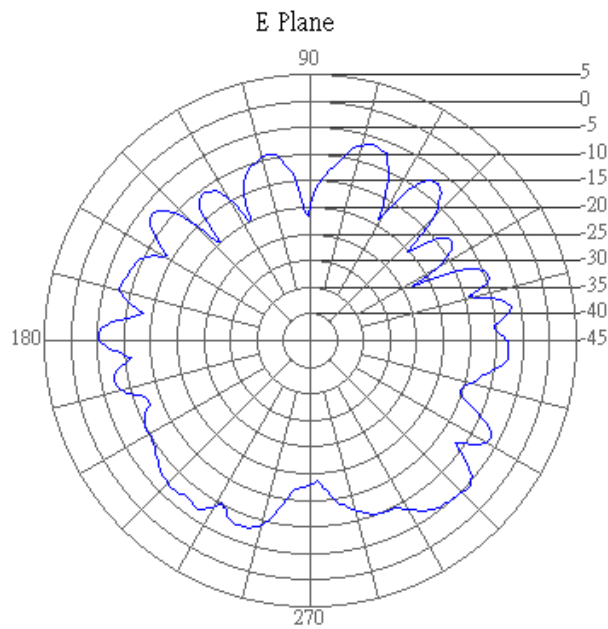
Frequency 5150.00 MHz

Average Gain= -11.36    Max Gain= -5.25    Min Gain= -21.58

Custom Name: VSO-0112  
Model Name: G600-灰-5150\_0



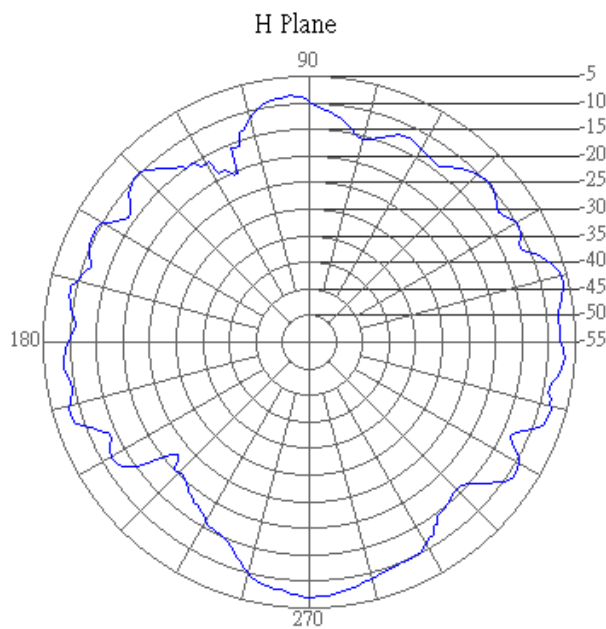
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Frequency 5350.00 MHz

Average Gain= -10.65    Max Gain= -4.39    Min Gain= -23.23

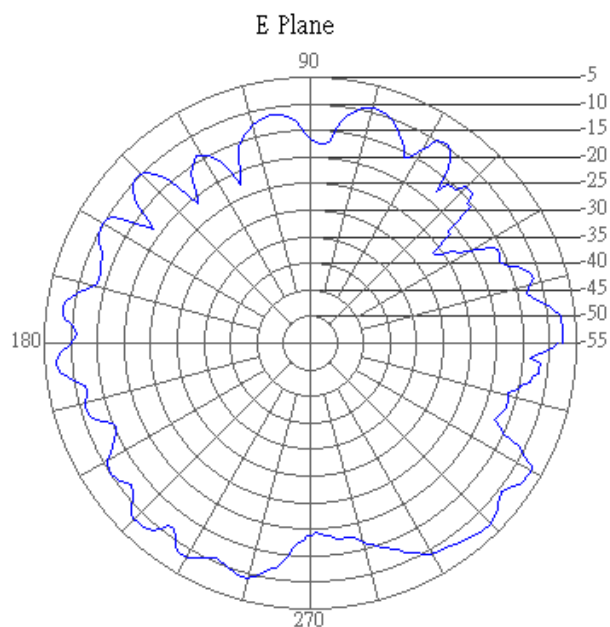
Custom Name: VSO-0112  
Model Name: G600-灰-5350\_0



Frequency 5350.00 MHz

Average Gain= -11.51    Max Gain= -5.89    Min Gain= -22.56

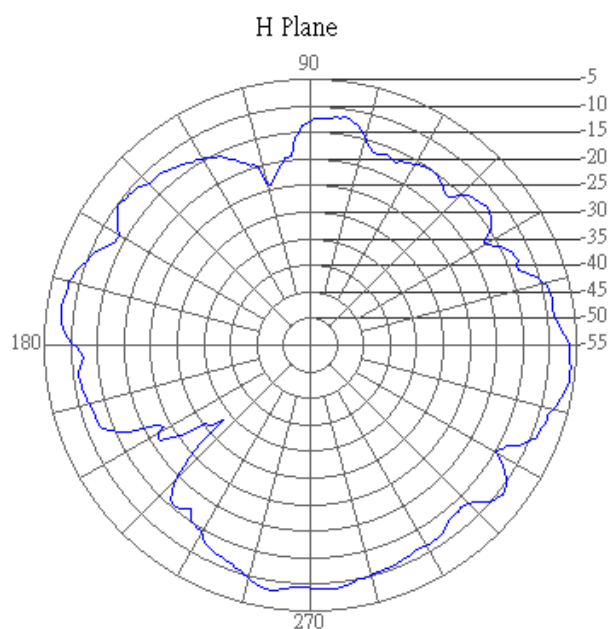
Custom Name: VSO-0112  
Model Name: G600-灰-5350\_0



Frequency 5500.00 MHz

Average Gain= -12.60    Max Gain= -7.04    Min Gain= -26.37

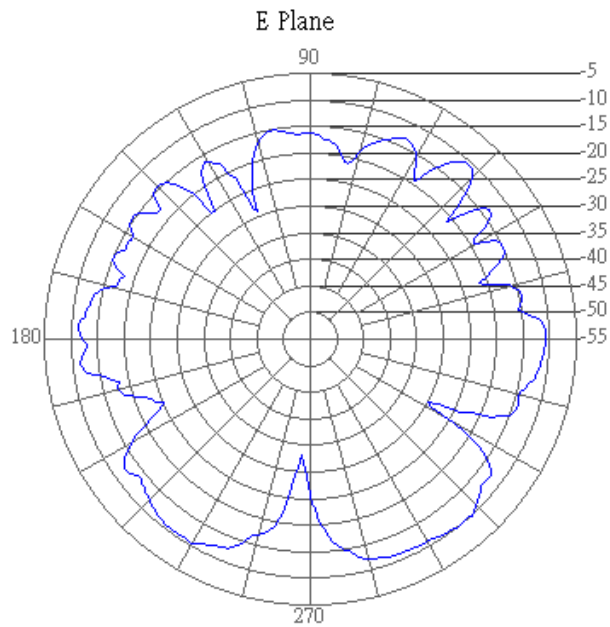
Custom Name: VSO-0112  
Model Name: G600-灰-5500\_0



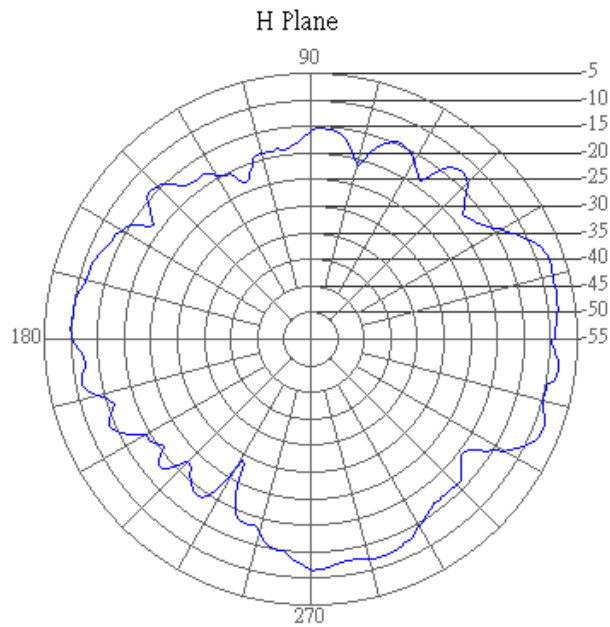
Frequency 5500.00 MHz

Average Gain= -12.93    Max Gain= -5.87    Min Gain= -33.37

Custom Name: VSO-0112  
Model Name: G600-灰-5500\_0

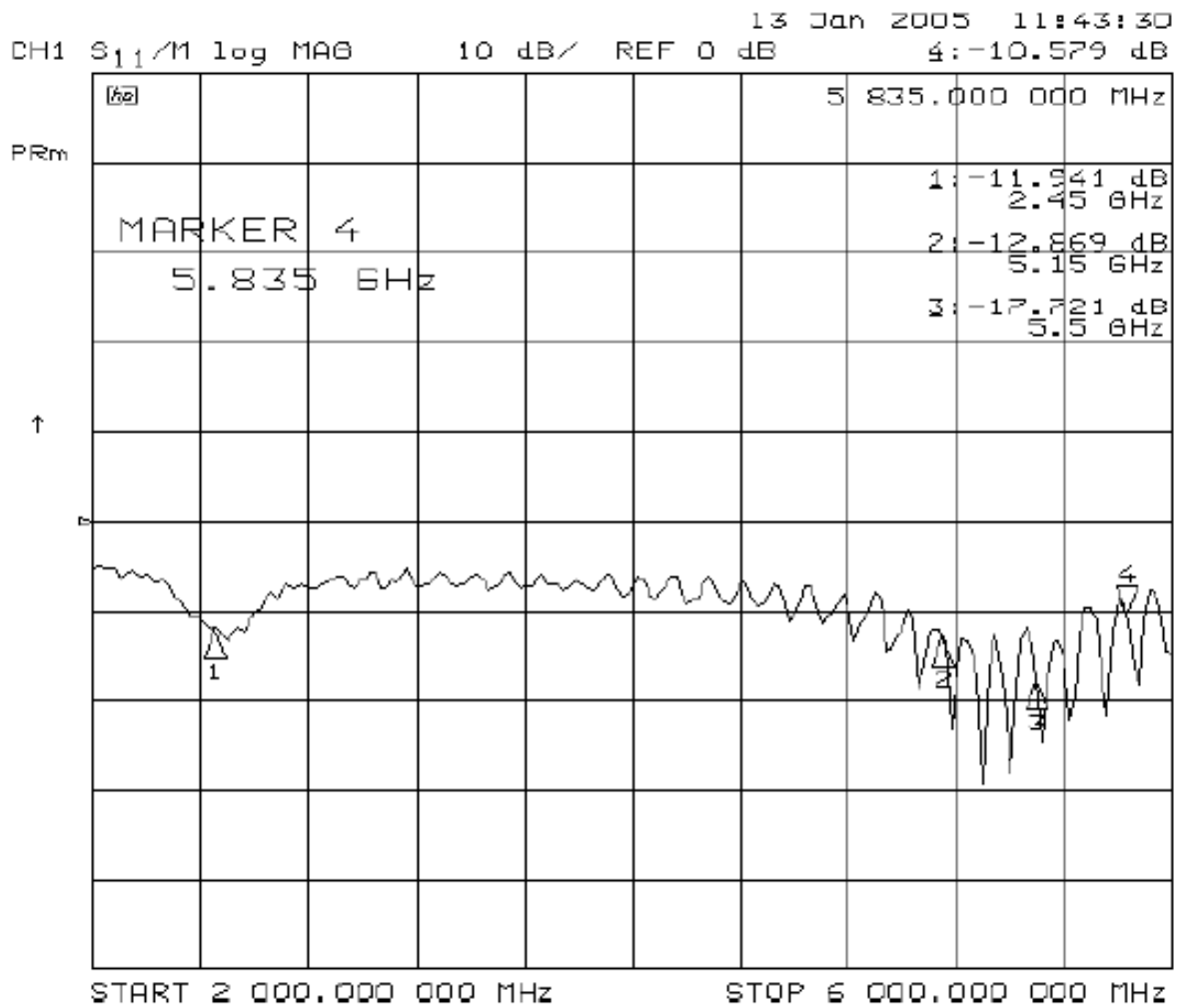


Frequency 5850.00 MHz  
Average Gain= -15.71    Max Gain= -10.05    Min Gain= -33.05  
Custom Name: VSO-0112  
Model Name: G600-灰-5850\_0

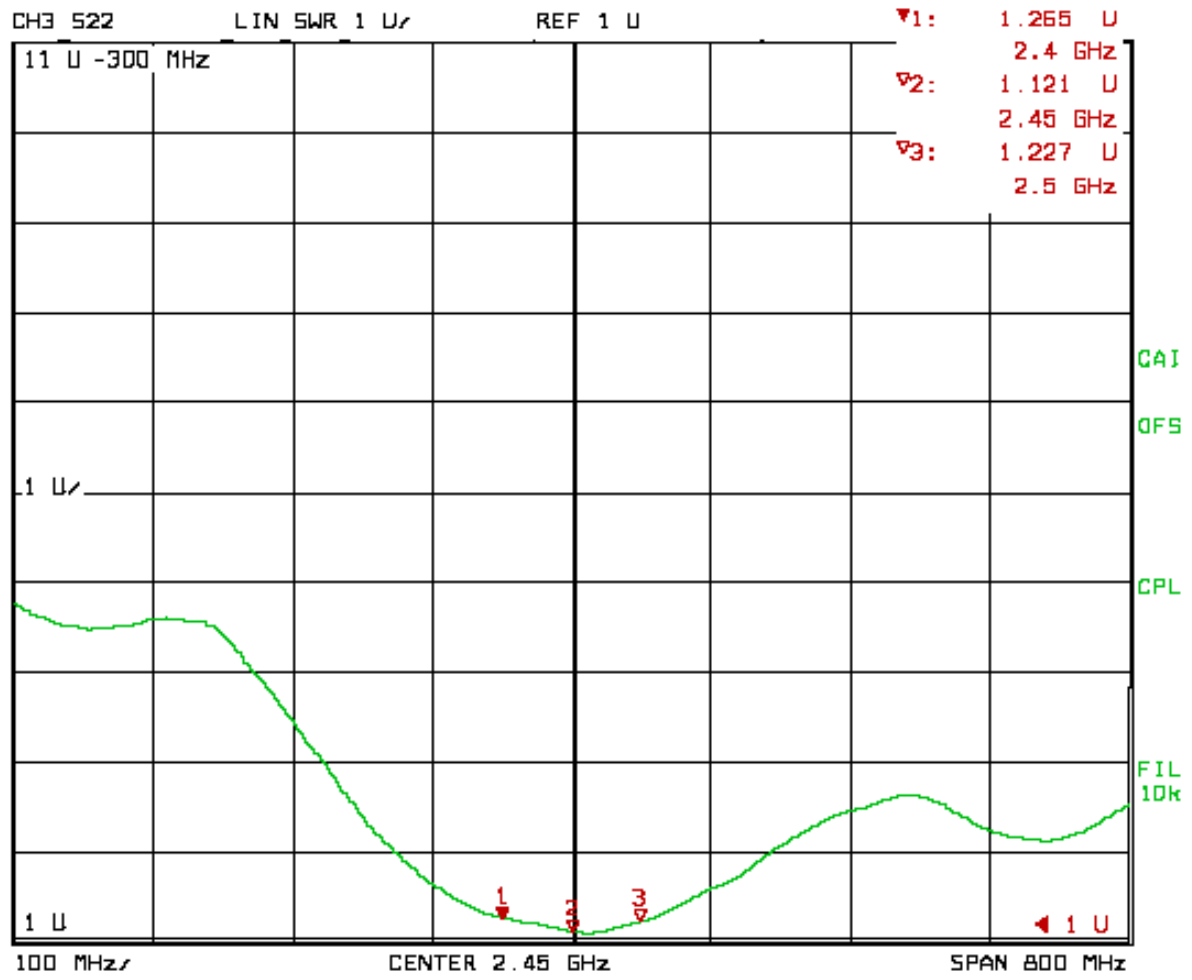


Frequency 5850.00 MHz  
Average Gain= -14.85    Max Gain= -7.88    Min Gain= -28.88  
Custom Name: VSO-0112  
Model Name: G600-灰-5850\_0

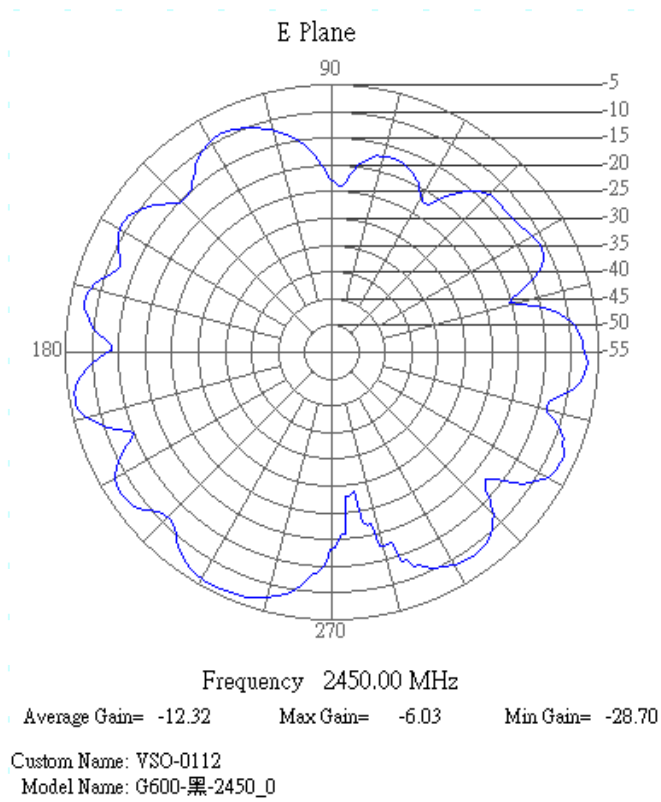
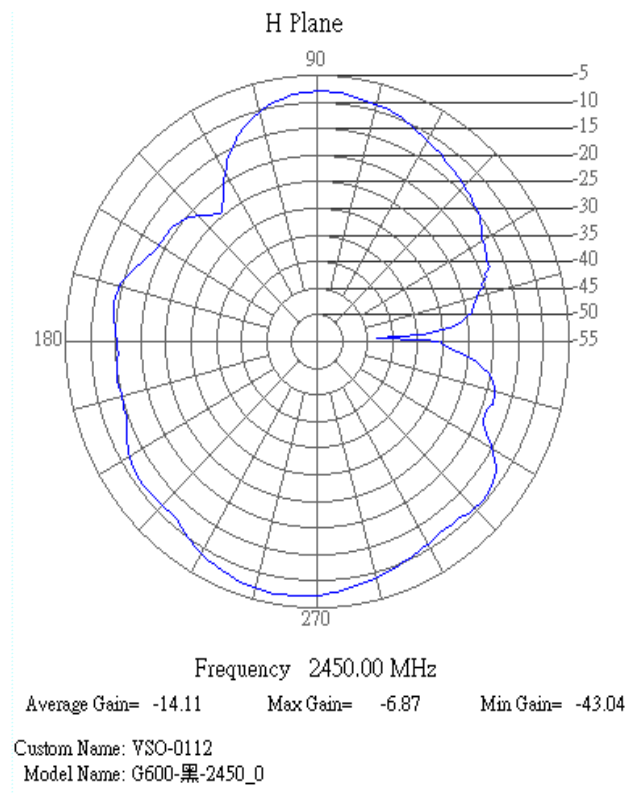
G600 灰色 Returnloss



## VSWR



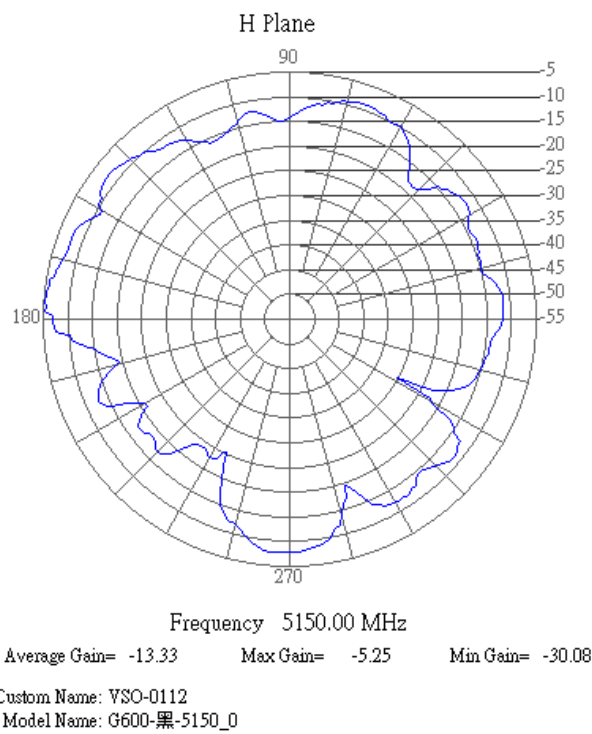
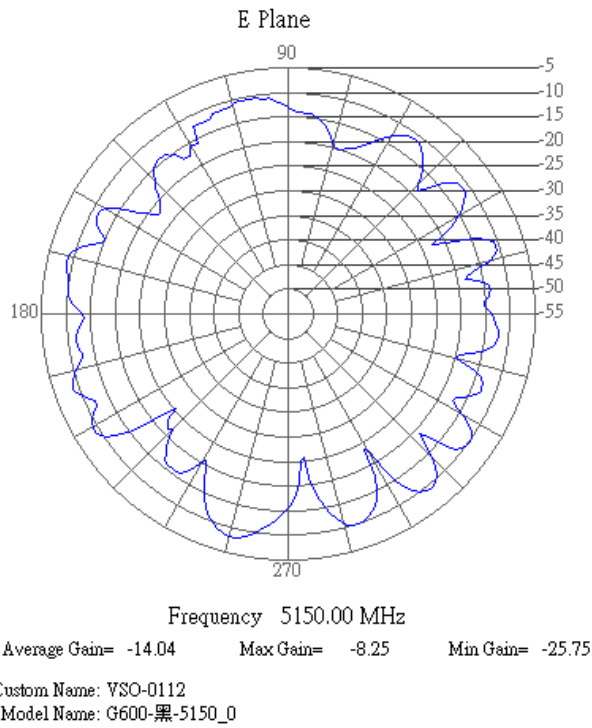
Date: 11.JUN.02 18:21:13

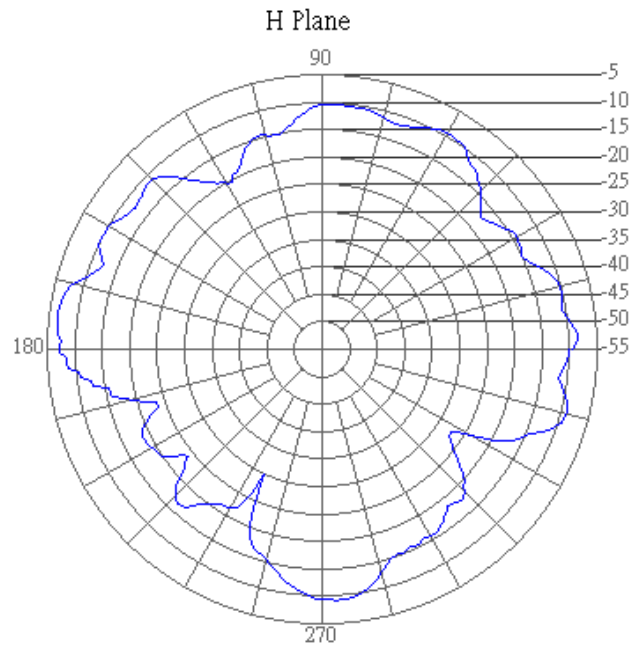






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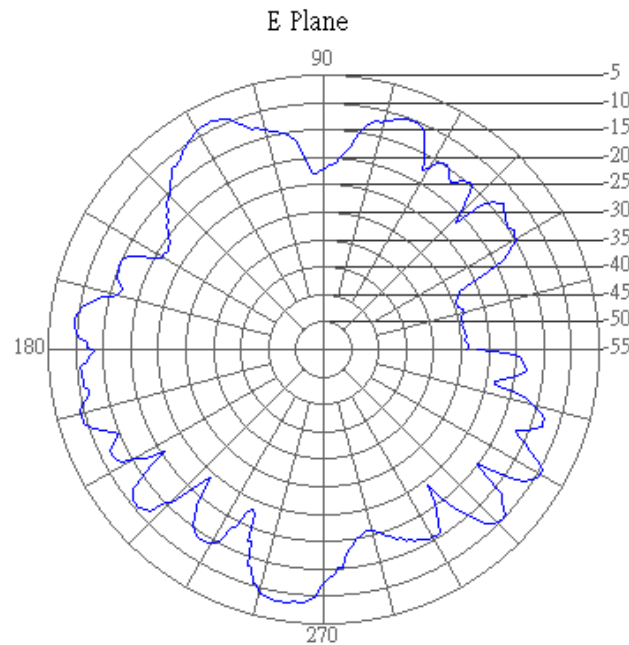




Frequency 5350.00 MHz

Average Gain= -14.29    Max Gain= -6.56    Min Gain= -29.89

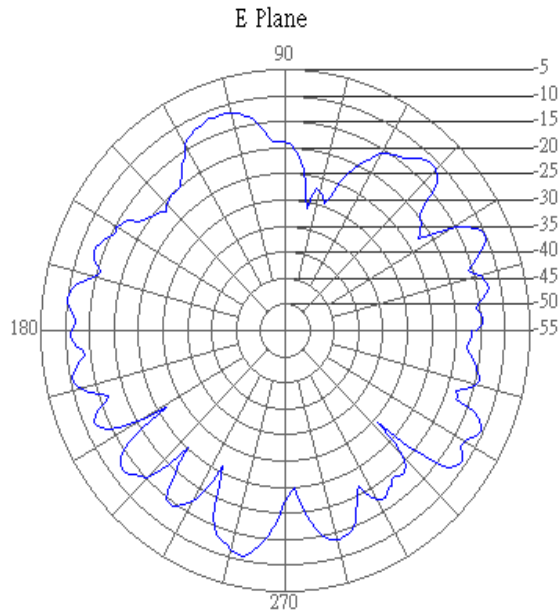
Custom Name: VSO-0112  
Model Name: G600-黑-5350\_0



Frequency 5350.00 MHz

Average Gain= -15.85    Max Gain= -8.39    Min Gain= -29.56

Custom Name: VSO-0112  
Model Name: G600-黑-5350\_0

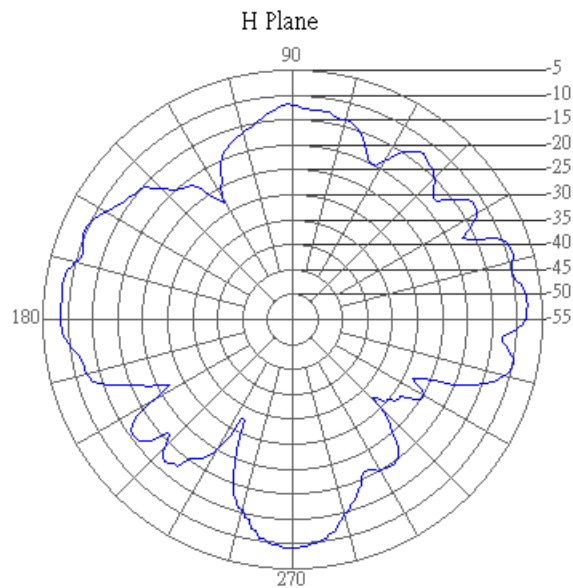


Frequency 5500.00 MHz

Average Gain= -16.18    Max Gain= -9.87    Min Gain= -31.04

Custom Name: VSO-0112

Model Name: G600-黑-5500\_0

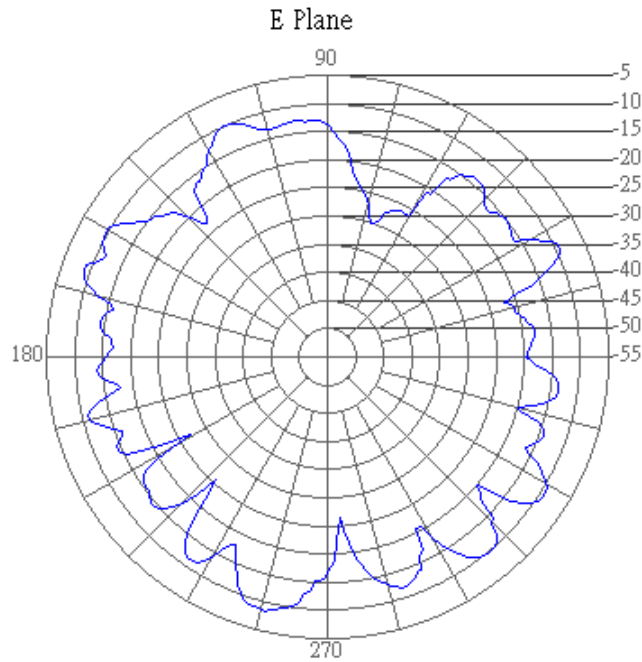


Frequency 5500.00 MHz

Average Gain= -15.97    Max Gain= -7.87    Min Gain= -32.70

Custom Name: VSO-0112

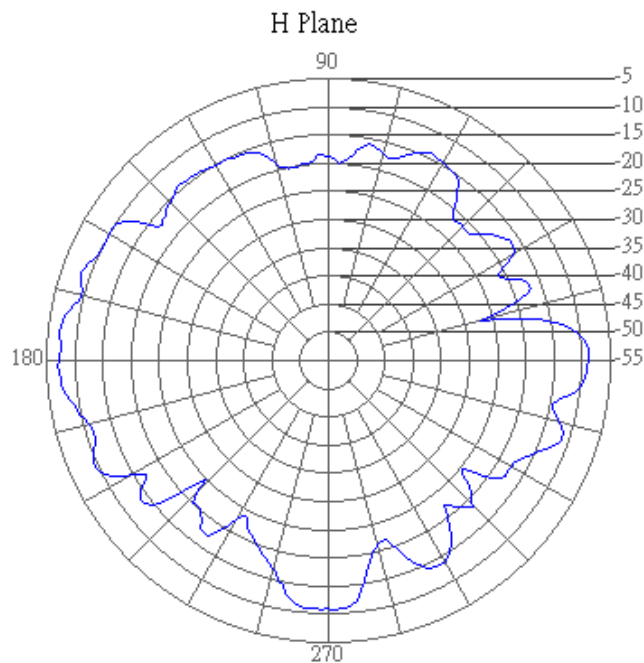
Model Name: G600-黑-5500\_0



Frequency 5850.00 MHz

Average Gain= -15.51    Max Gain= -8.55    Min Gain= -30.21

Custom Name: VSO-0112  
Model Name: G600-黑-5850\_0



Frequency 5850.00 MHz

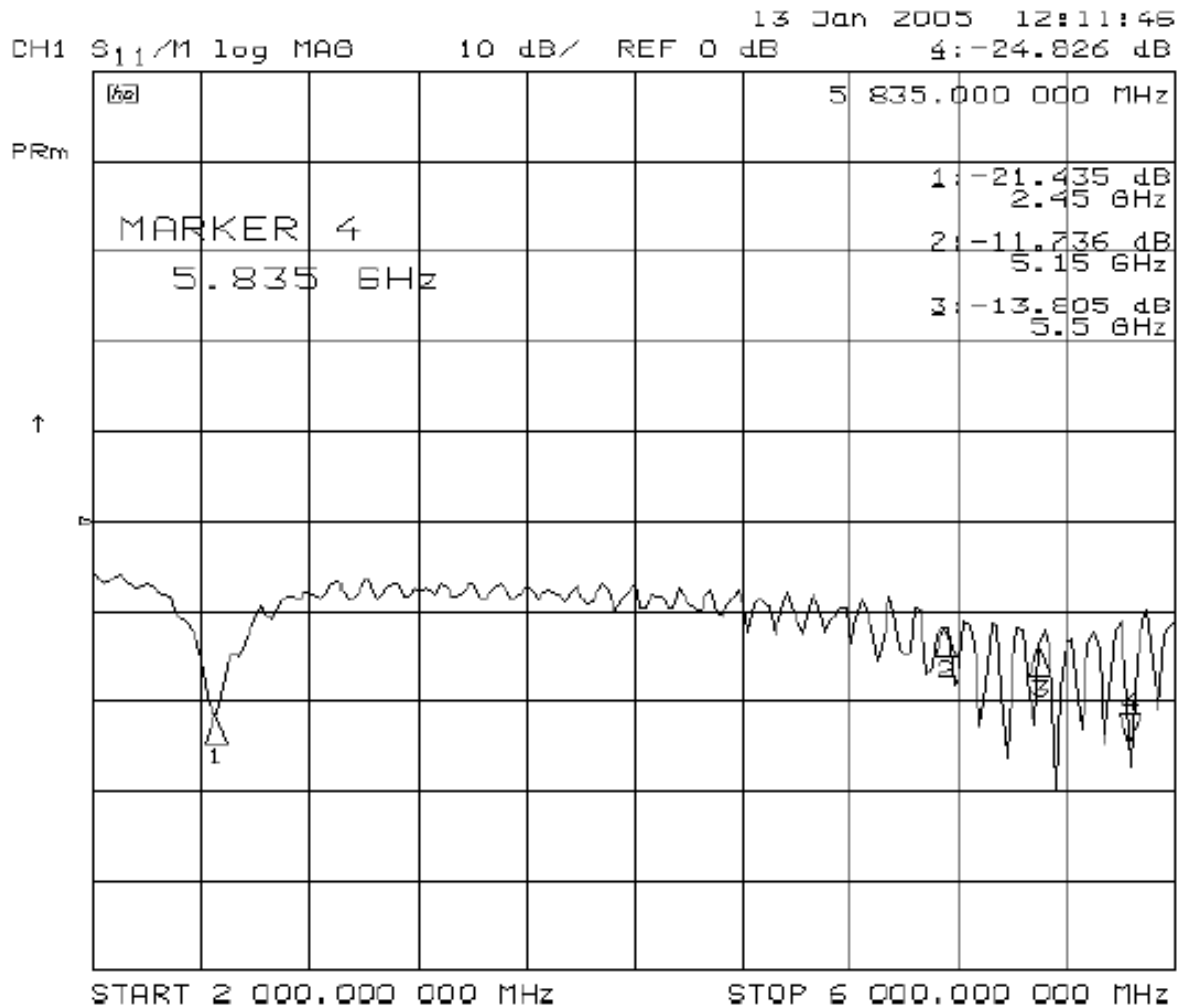
Average Gain= -15.34    Max Gain= -7.05    Min Gain= -27.22

Custom Name: VSO-0112  
Model Name: G600-黑-5850\_0



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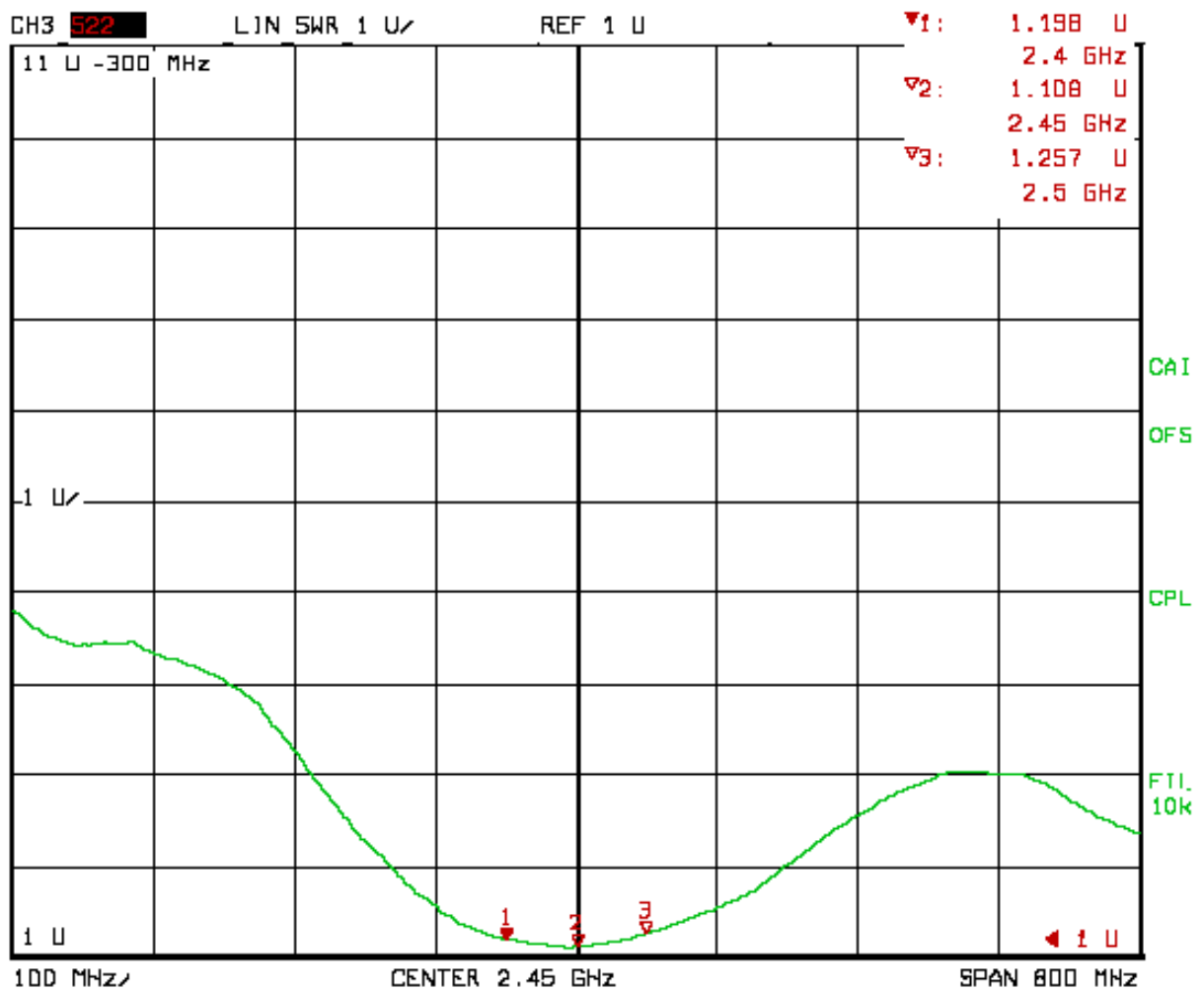
### G600 黑色 Returnloss





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## VSWR



Date: 10.MAY.02 11:43:32