

No.0506-045

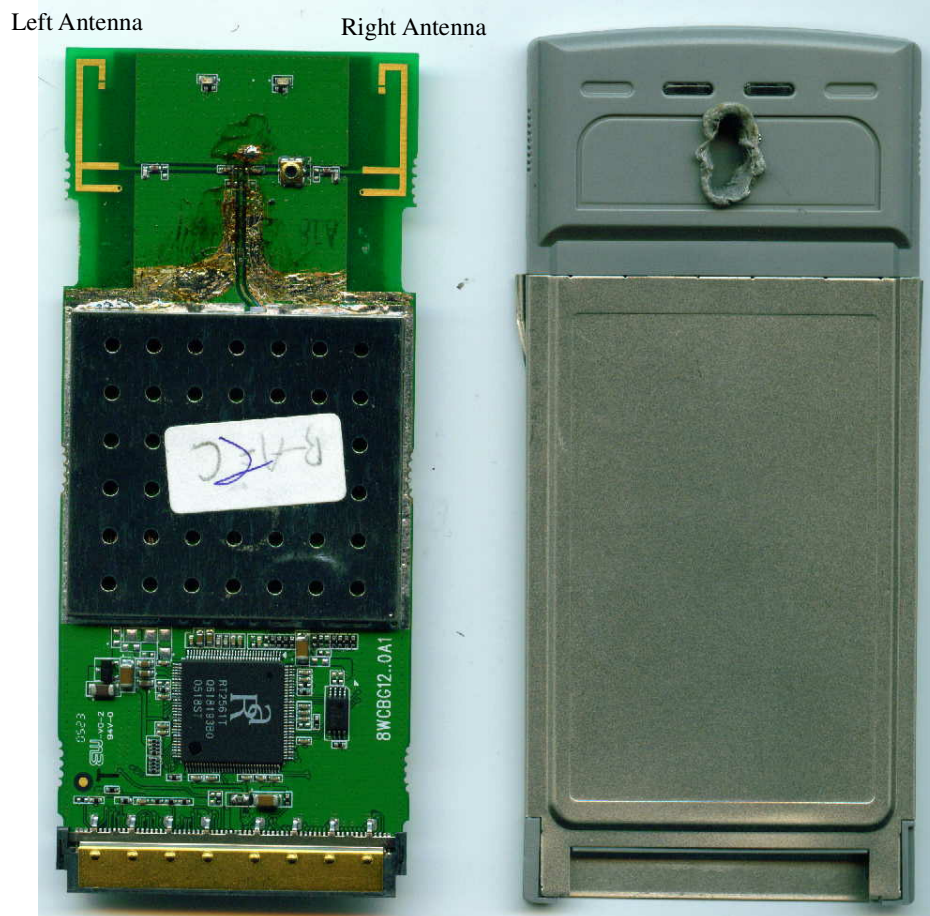
天線客服報告書

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日期：2005/06/30

1.摘要:

協助量測以下 PCB 的反射係數以及輻射場型。

2. 電路板和外殼的結構圖:



3. 量測結果:

A. 儀器設定

▲返回損耗(Return Loss) / 駐波比(VSWR) :

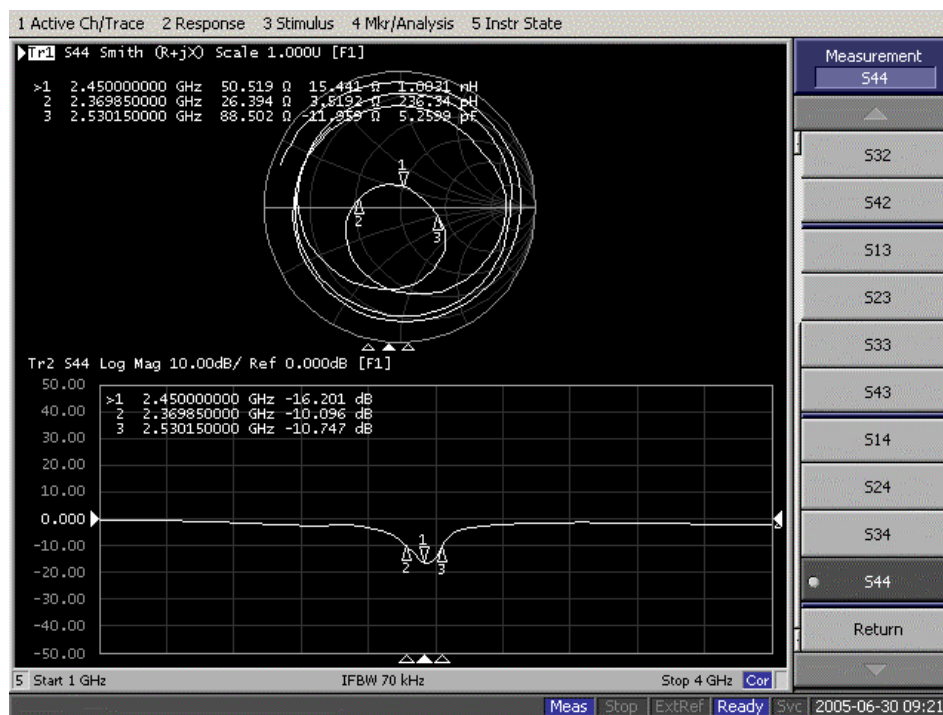
◆量測儀器 : vector network analyzer-Agilent E5071A/B

◆校正方法 : open/short/load Cal.Kit 85052D

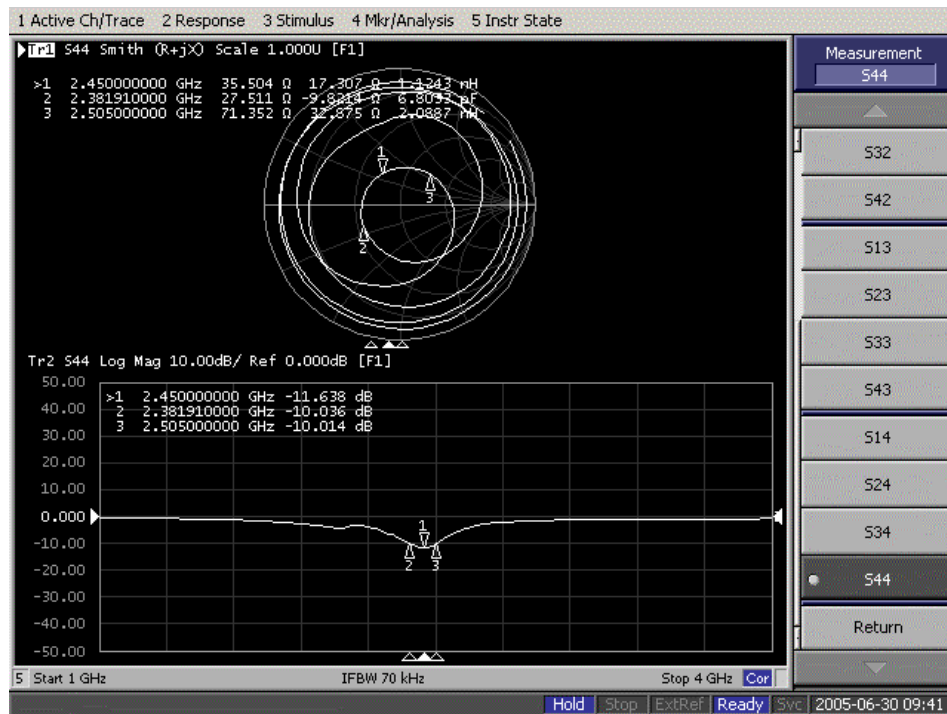
▲輻射場型(Radiation Pattern) :

◆ACX 天線場型量測室

B. Left Antenna 的返回損耗(return loss)量測值

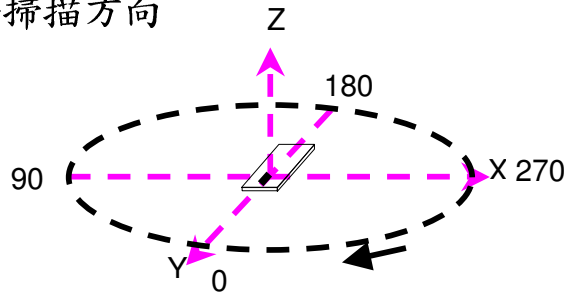


C. Right Antenna 的返回損耗(return loss)量測值

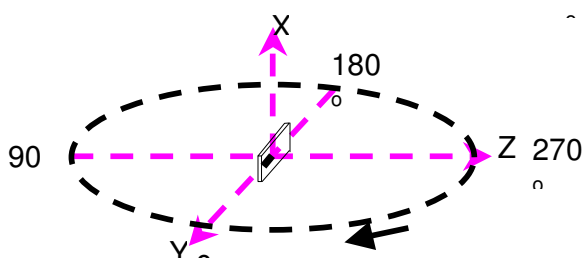


D. 輻射場型圖及電場強度

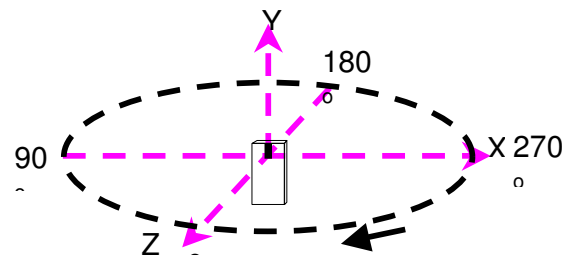
◆ 掃描方向



XY-plane scanning direction



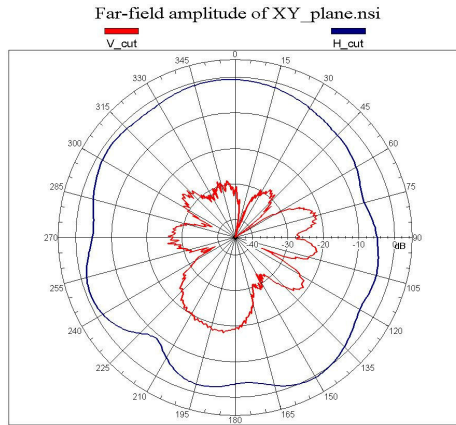
YZ-plane scanning direction



XZ-plane scanning direction

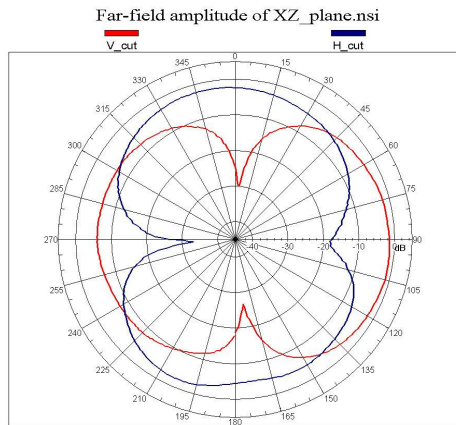
Left Antenna 的輻射場型圖

◆ XY-plane



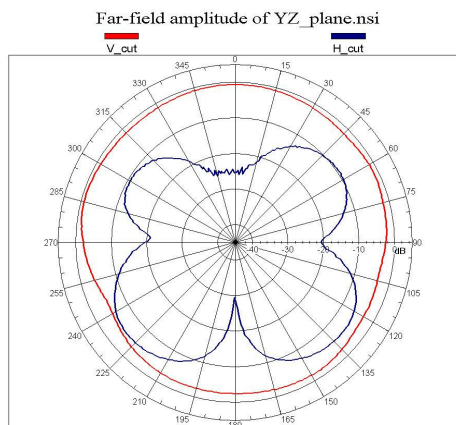
2.45GHz	Peak	Average
Vertical	-18.07	-25.04
Horizontal	0.29	-2.78

◆ XZ-plane



2.45GHz	Peak	Average
Vertical	-1.29	-5.91
Horizontal	-2.27	-5.52

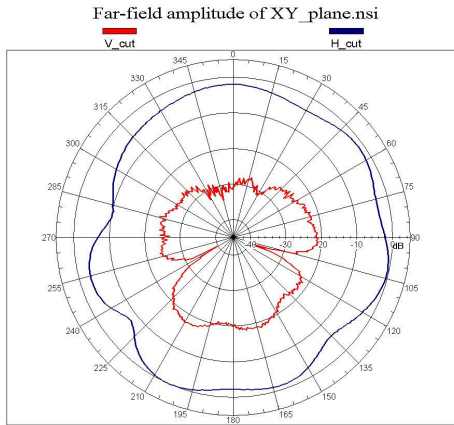
◆ YZ-plane



2.45GHz	Peak	Average
Vertical	-0.68	-2.08
Horizontal	-5.07	-10.39

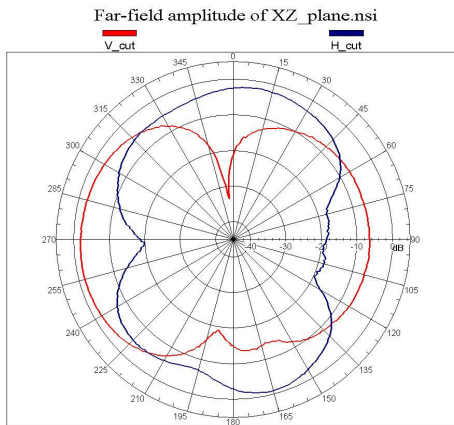
Right Antenna 的輻射場型圖

◆ XY-plane



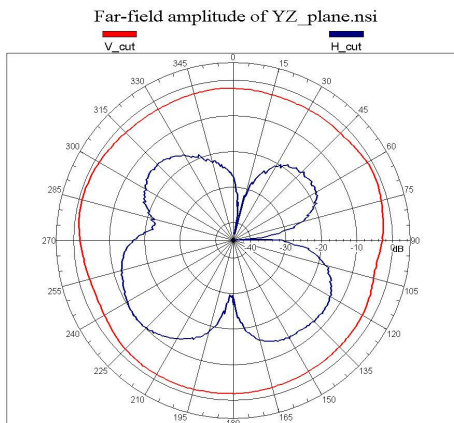
2.45GHz	Peak	Average
Vertical	-17.65	-23.21
Horizontal	-0.14	-3.08

◆ XZ-plane



2.45GHz	Peak	Average
Vertical	-1.70	-6.22
Horizontal	-1.11	-5.82

◆ YZ-plane



2.45GHz	Peak	Average
Vertical	-0.83	-2.27
Horizontal	-9.82	-15.80

E. 總量測結果列表：

返迴損耗

	Bandwidth	Frequency Range
Left Antenna	160 MHz	2.370 ~ 2.530 GHz
Right Antenna	123 MHz	2.382 ~ 2.505 GHz

電場強度

2.45GHz	Left Antenna		Right Antenna	
	Peak	Average	Peak	Average
XY_V	-18.07	-25.04	-17.65	-23.21
XY_H	0.29	-2.78	-0.14	-3.08
XZ_V	-1.29	-5.91	-1.70	-6.22
XZ_H	-2.27	-5.52	-1.11	-5.82
YZ_V	-0.68	-2.08	-0.83	-2.27
YZ_H	-5.07	-10.39	-9.82	-15.80