

Antenna Specification

General Description

The Single band PCB antenna have 3 sets print antenna specifically For CardBus . Application for operation In 2.4 GHz bands.

Notes: The Antenna type is PCB and smart antenna just a marketing name.

Features

1) Operating frequencies: 2.4 - 2.4835GHz for IEEE802.11b/g

2) Applications

3) Frequency range: 2.4 - 2.835GHz

4) VSWR: 2: 1

5) Gain: OMNI (Center)/ Max 1.69dBi

Right+OMNI/ Max 1.51dBi

Left+OMNI/ Max 3.74dBi



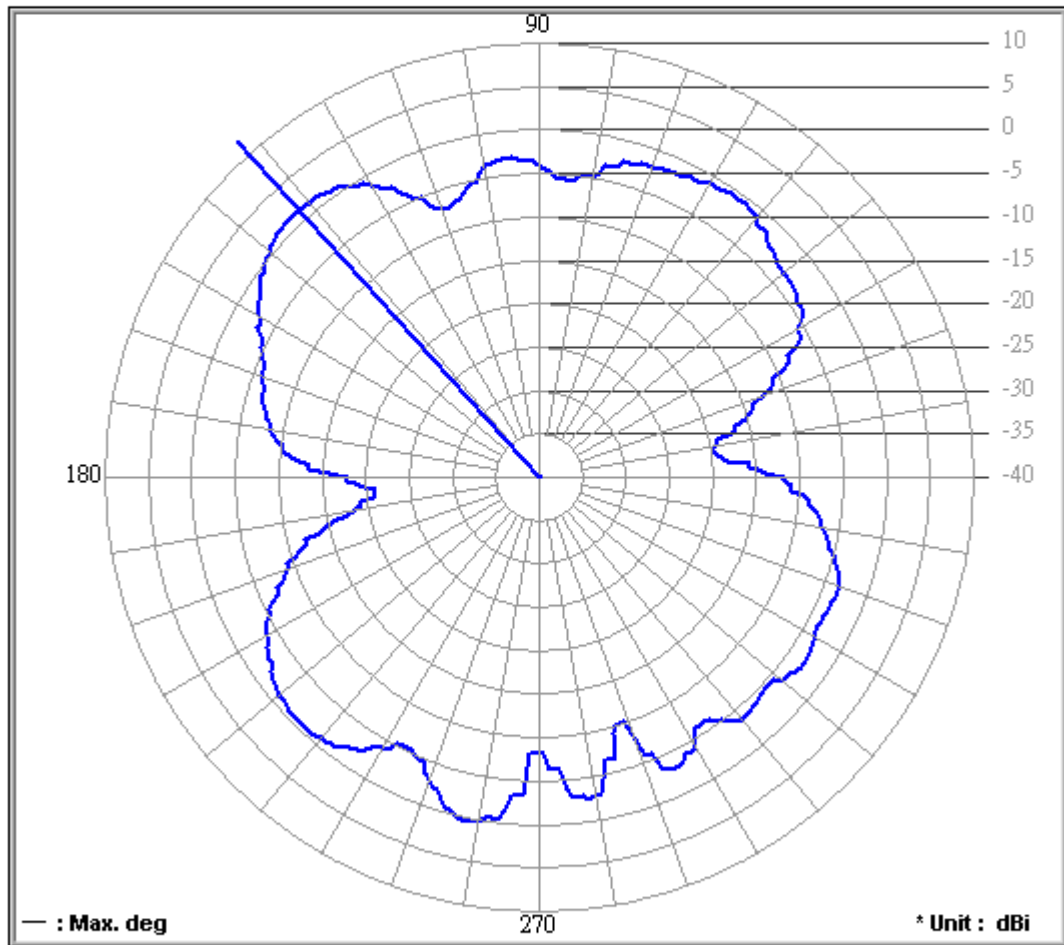
Advance Data Technology Corporation 誠信科技股份有限公司

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kieikiai, Taoyuan, Taiwan, R.O.C. <http://www.adt.com.tw> E-mail: service@adt.com.tw
Tayuan Lab : 13-1 Lane 19, Wei Sikai 3rd St, Kieikiai, Taoyuan, Taiwan, R.O.C. Tel (83) 318-3232 Fax (83) 318-5050
Hsichih Lab: 81-1 Lilbacking, 9th Lin, Whiting Tzwei, Chinglinh, Hsichih, Taiwan, R.O.C. Tel (83) 327-0910 Fax (83) 327-0892
Tel (83) 593-5343 Fax (83) 593-5342

Brand / Model : WCB-321A
Remark : ONMI-ANT
Tested by : DYLAN
EUT description :

Location: **RF Chamber3** Date: **2005/11/29** Time: **19:56:39**

Temperatuer (°C): **25** Humidity (%): **75** Approved by:



Frequency (MHz) : **2472.00** Antenna Polarity : **Horizontal** Average Value (dB) : **-3.55**

Maximum Value (dB) : **1.41** Maximum Value (degree) : **132**

Minimum Value (dB) : **-21.04** Minimum Value (degree) : **184**

C:\Antenna Pattern V5\Graph\1129\11290025.png



Advance Data Technology Corporation

誠信科技股份有限公司

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kieikiai, Taoyuan, Taiwan, R.O.C.

http://www.adt.com.tw E-mail: service@adt.com.tw

Taipei Lab : 13-1 Lane 19, Wei Sikai 3rd St, Kieikiai, Taoyuan, Taiwan, R.O.C.

Tel (83) 318-3232 Fax (83) 318-5050

Hsichih Lab: 81-1 Lilbacking, 9th Ln, Whiting Tzwei, Chinglinh, Hsichih, Taiwan, R.O.C.

Tel (83) 327-0910 Fax (83) 327-0892

Tel (83) 593-5343 Fax (83) 593-5342

Brand / Model : WCB-321A

Remark : ONMI-ANT

Tested by : DYLAN

EUT description :

Location: **RF Chamber3**

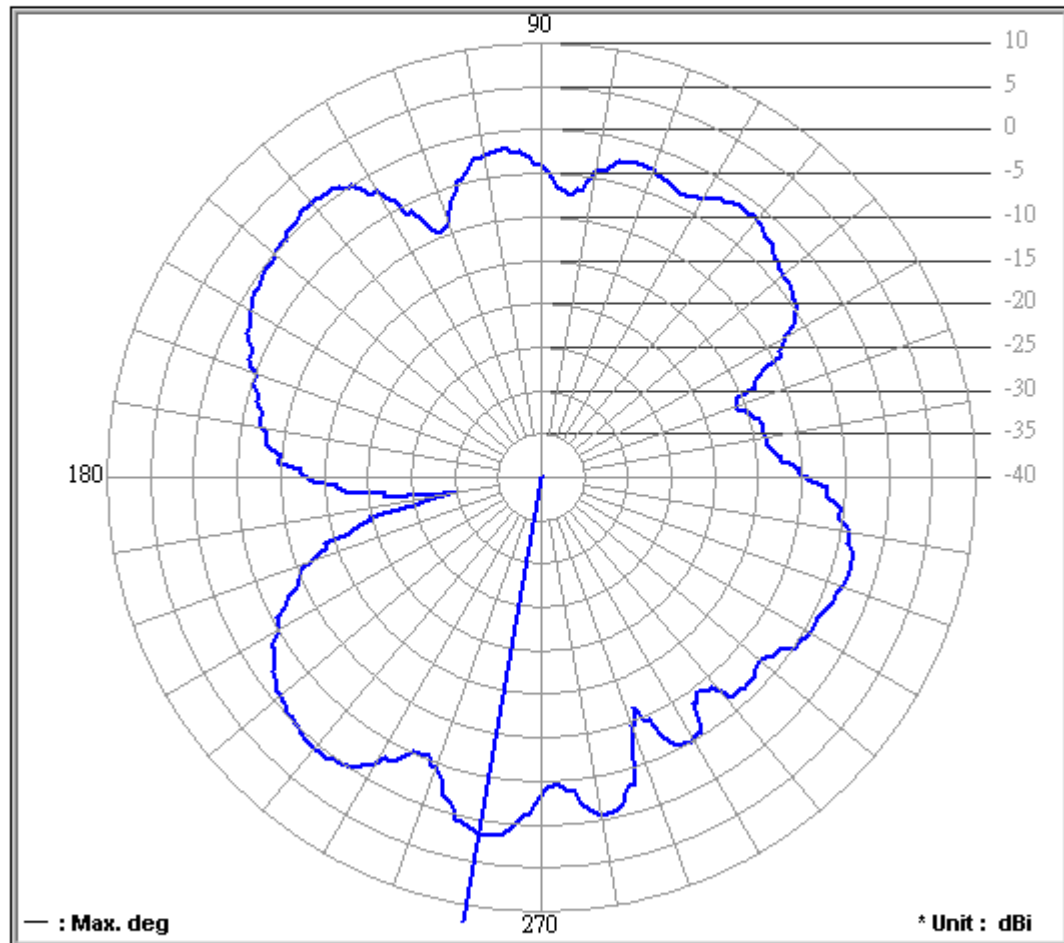
Date: **2005/11/29**

Time: **19:54:58**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2412.00**

Antenna Polarity : **Horizontal**

Average Value (dB) : **-3.40**

Maximum Value (dB) : **1.69**

Maximum Value (degree) : **260**

Minimum Value (dB) : **-30.21**

Minimum Value (degree) : **190**

C:\Antenna Pattern V5\Graph\1129\11290024.png



Advance Data Technology Corporation 誠信科技股份有限公司

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kieikiai, Taoyuan, Taiwan, R.O.C. <http://www.adt.com.tw> E-mail: service@adt.com.tw
Taoyuan Lab : 13-1 Lane 19, Wei Sikai 3rd St, Kieikiai, Taoyuan, Taiwan, R.O.C. Tel (03) 318-3232 Fax (03) 318-5050
Hsichih Lab: 81-1 Lilbacking, 9th Ln, Whiting Tzwei, Chinglinh, Hsichih, Taiwan, R.O.C. Tel (03) 327-0910 Fax (03) 327-0892
Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : WCB-321A
Remark : RIGHT+OMNI
Tested by : DYLAN
EUT description :

Location: **RF Chamber3**

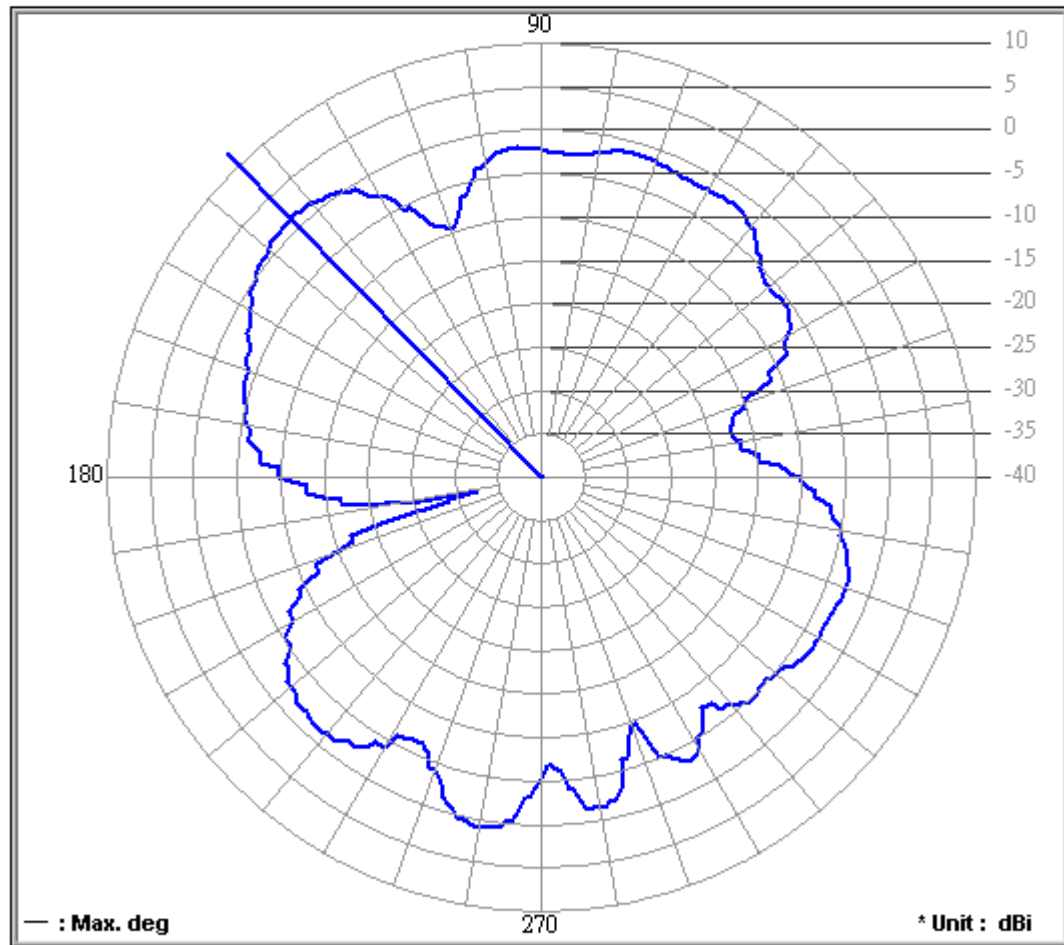
Date: **2005/11/29**

Time: **20:07:31**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2472.00**

Antenna Polarity : **Horizontal**

Average Value (dB) : **-3.51**

Maximum Value (dB) : **1.51**

Maximum Value (degree) : **134**

Minimum Value (dB) : **-32.47**

Minimum Value (degree) : **192**

C:\Antenna Pattern V5\Graph\1129\11290029.png



Advance Data Technology Corporation 誠信科技股份有限公司

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kieikiai, Taoyuan, Taiwan, R.O.C. <http://www.adt.com.tw> E-mail: service@adt.com.tw
Tayuan Lab : 13-1 Lane 19, Wei Sikai 3rd St, Kieikiai, Taoyuan, Taiwan, R.O.C. Tel (03) 318-3232 Fax (03) 318-5050
Hsichih Lab: 81-1 Lilbacking, 9th Lin, Wukung Tzuei, Chinglinh, Hsichih, Taiwan, R.O.C. Tel (03) 327-0910 Fax (03) 327-0892
Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : WCB-321A
Remark : RIGHT+OMNI
Tested by : DYLAN
EUT description :

Location: **RF Chamber3**

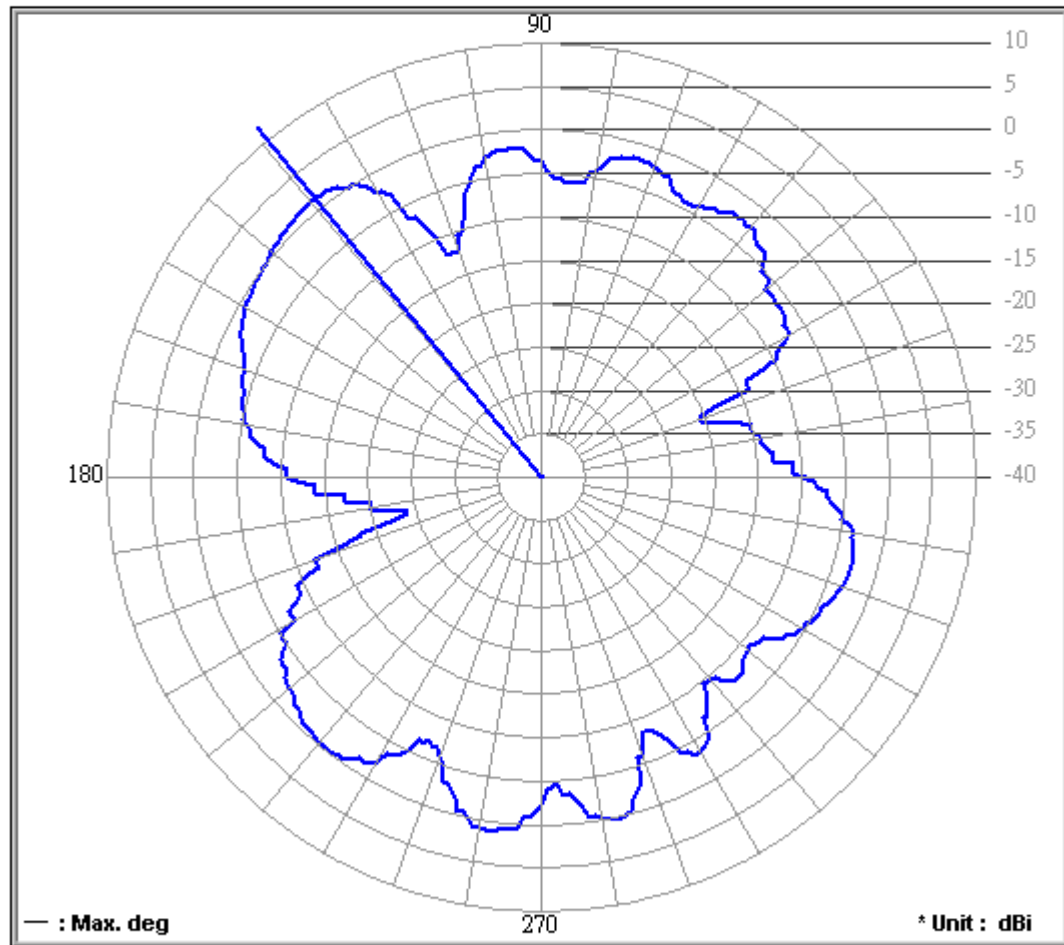
Date: **2005/11/29**

Time: **20:05:11**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2412.00**

Antenna Polarity : **Horizontal**

Average Value (dB) : **-3.54**

Maximum Value (dB) : **1.41**

Maximum Value (degree) : **129**

Minimum Value (dB) : **-24.09**

Minimum Value (degree) : **193**

C:\Antenna Pattern V5\Graph\1129\11290028.png



Advance Data Technology Corporation

誠信科技股份有限公司

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kieik ian, Taoyuan, Taiwan, R.O.C.

http://www.adt.com.tw E-mail: service@adt.com.tw

Taipei Lab : 13-1 Lane 19, Wei Siak 3rd St, Kieik ian, Taoyuan, Taiwan, R.O.C.

Tel (886) 318-3232 Fax (886) 318-5050

Hsichih Lab: 81-1 Lihbackeng, 9th Lh, Wukung Tsuen, Chinggilh, Hsichih, Taiwan, R.O.C.

Tel (886) 327-0910 Fax (886) 327-0892

Tel (886) 593-5343 Fax (886) 593-5342

Brand / Model : WCB-321A
 Remark : LEFT+OMNI
 Tested by : DYLAN
 EUT description :

Location: **RF Chamber3**

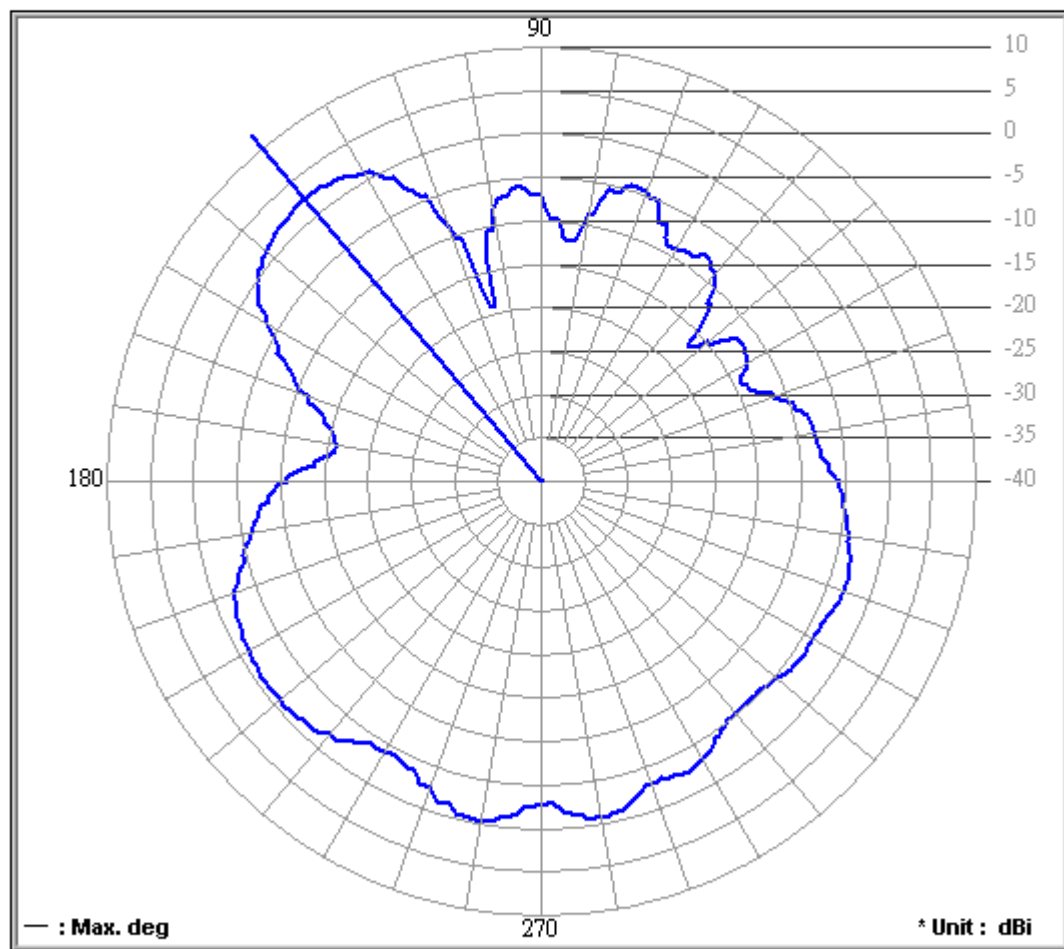
Date: **2005/11/29**

Time: **19:59:48**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2472.00**

Antenna Polarity : **Horizontal**

Average Value (dB) : **-3.51**

Maximum Value (dB) : **2.45**

Maximum Value (degree) : **130**

Minimum Value (dB) : **-19.21**

Minimum Value (degree) : **105**

C:\Antenna Pattern \V5\Graph\1129\11290026.png



Advance Data Technology Corporation

誠信科技股份有限公司

http://www.adt.com.tw E-mail: service@adt.com.tw

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kieik ian, Taoyuan, Taiwan, R.O.C.

Tel (886) 318-3232 Fax (886) 318-5050

Taipei Lab : 13-1 Lane 19, Wei Siak 3rd St, Kieik ian, Taoyuan, Taiwan, R.O.C.

Tel (886) 327-0910 Fax (886) 327-0892

Hsichih Lab: 81-1 Lihlokeg, 9th Lh, Wukung Tzwei, Chinglin, Hsichih, Taiwan, R.O.C.

Tel (886) 593-5343 Fax (886) 593-5342

Brand / Model : WCB-321A

Remark : LEFT+OMNI

Tested by : DYLAN

EUT description :

Location: **RF Chamber3**

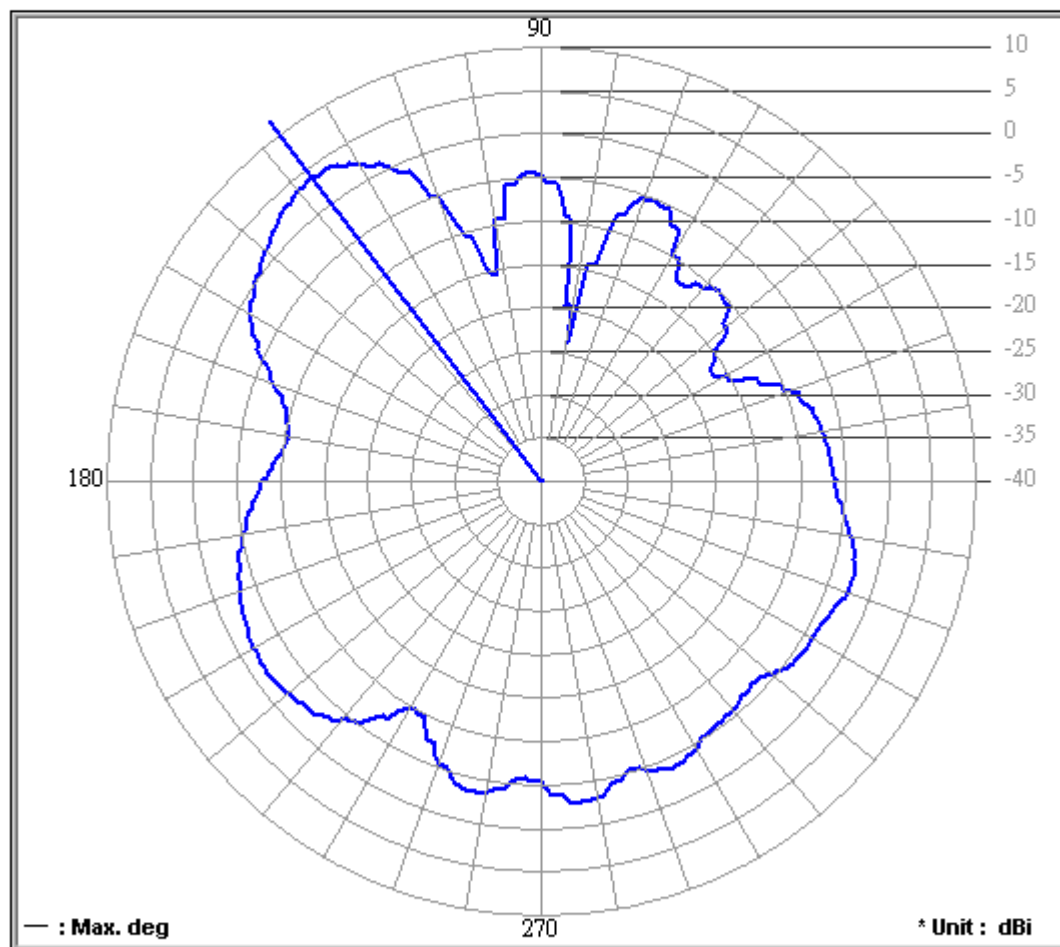
Date: **2005/11/29**

Time: **20:01:30**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2412.00**

Antenna Polarity : **Horizontal**

Average Value (dB) : **-3.78**

Maximum Value (dB) : **3.74**

Maximum Value (degree) : **127**

Minimum Value (dB) : **-23.81**

Minimum Value (degree) : **79**

C:\Antenna Pattern V5\Graph\1129\11290027.png