

DATE : MAR. 26. 2006

CUSTOMER : First international Computer,.

TEST REPORT

MODEL	GE2 (TOP)
DESCRIPTION	PIFA For Wireless LAN Antenna 2.4~2.5GHZ 148mm(Top, Black) & 1.13Φ
SUPPLIER P/N	K05004001201
CUSTOMER P/N	21-92472-01
FILE P/N	

FAVORTRON			CUSTOMER	
Manager	Supervisor	Engineer		
Nick	James	James		



惠貿電子股份有限公司
FAVORTRON CO., LTD

台北縣新店市民權路 108-1 號 4F
4F, No. 108-1, MinChziuan Rd., SHzindian City,
Taipei HZsien 231, Taiwan. R.O.C

TEL: (02) 2218-2189
FAX: (02) 2218-5420
[URL:www.fvc.com.tw](http://www.fvc.com.tw)

1. Antenna Spec. For WLAN

1. 802.11b Spec.

- a. Frequency range : 2.4 ~ 2.5GHz (Nominal)
- b. Impedance : 50Ω
- c. LCD Panel : Open (100°) / Close (0°).
- d. System Plane : XY plane
- e. VSWR : ≤ 2 (Main & Aux. Antenna)
- f. Return Loss : ≤ -10dB (Main & Aux. Antenna)
- g. Band Width : ≥ 130MHz (2450MHz±65MHz at least).
- h. Diversity Sum : ≥ -2.5dBi
- i. Any 30° angle range can't has null depth.
- j. Average gain & Peak gain

Antenna	Peak Gain (dBi)			Average Gain (dBi)		
	Frequency			Frequency		
	2.4GHz	2.45GHz	2.5GHz	2.4GHz	2.45GHz	2.5GHz
Main	≤ 3	≤ 3	≤ 3	≥ -4	≥ -4	≥ -4
Auxiliary	≤ 3	≤ 3	≤ 3	≥ -4.5	≥ -4.5	≥ -4.5

2. 802.11a Spec.

- a. Frequency range : (Nominal)
- b. Impedance : 50Ω
- c. LCD Panel : Open (100°) / Close (0°).
- d. System Plane : XY plane
- e. VSWR : ≤ 2 (Main & Aux. Antenna)
- f. Return Loss : ≤ -10dB (Main & Aux. Antenna)
- g. Band Width : ≥ 250MHz (5250MHz±125MHz at least).
- h. Diversity Sum : ≥ -3.5dBi
- i. Any 30° angle range can't has null depth.
- j. Average gain & Peak gain

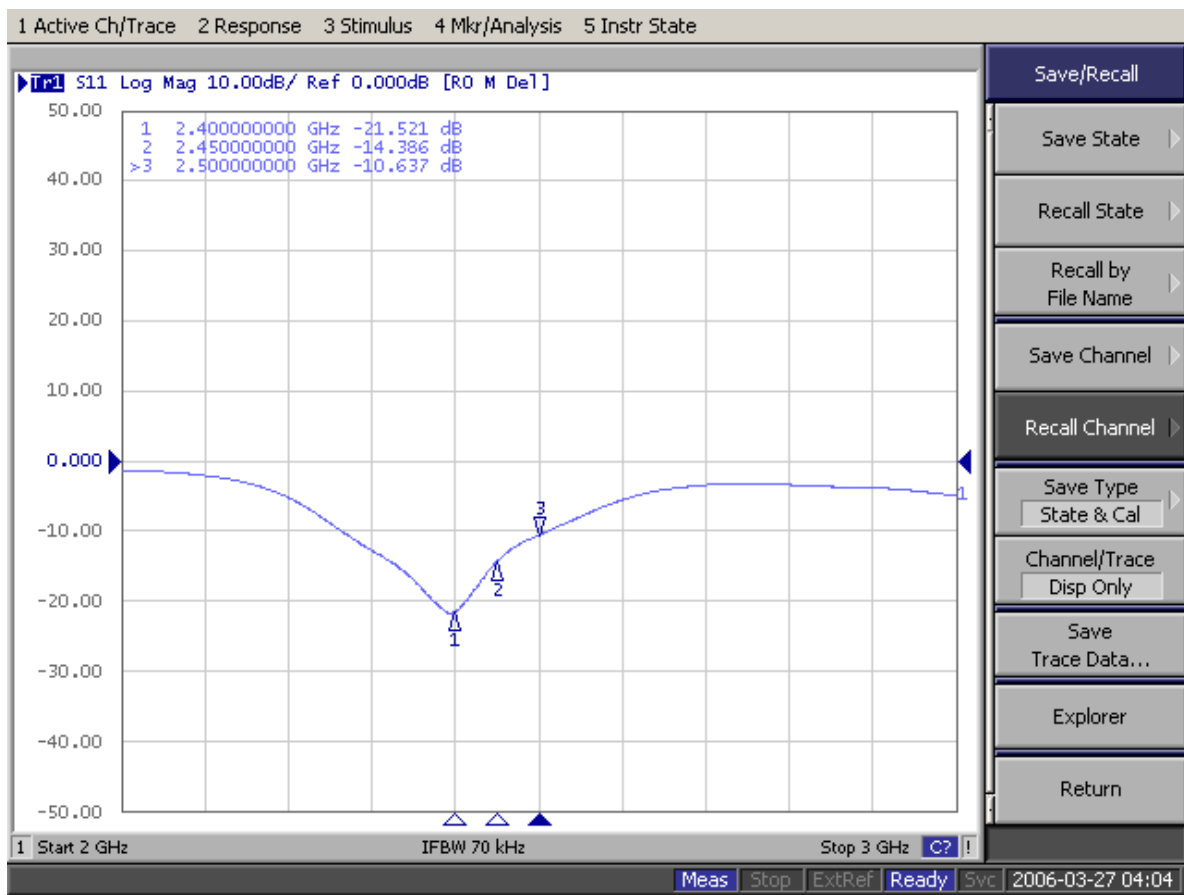
Antenna	Peak Gain (dBi)			Average Gain (dBi)		
	Frequency			Frequency		
	5.15GHz	5.25GHz	5.35GHz	5.15GHz	5.25GHz	5.35GHz
Main						
Auxiliary						

2. DESCRIPTION

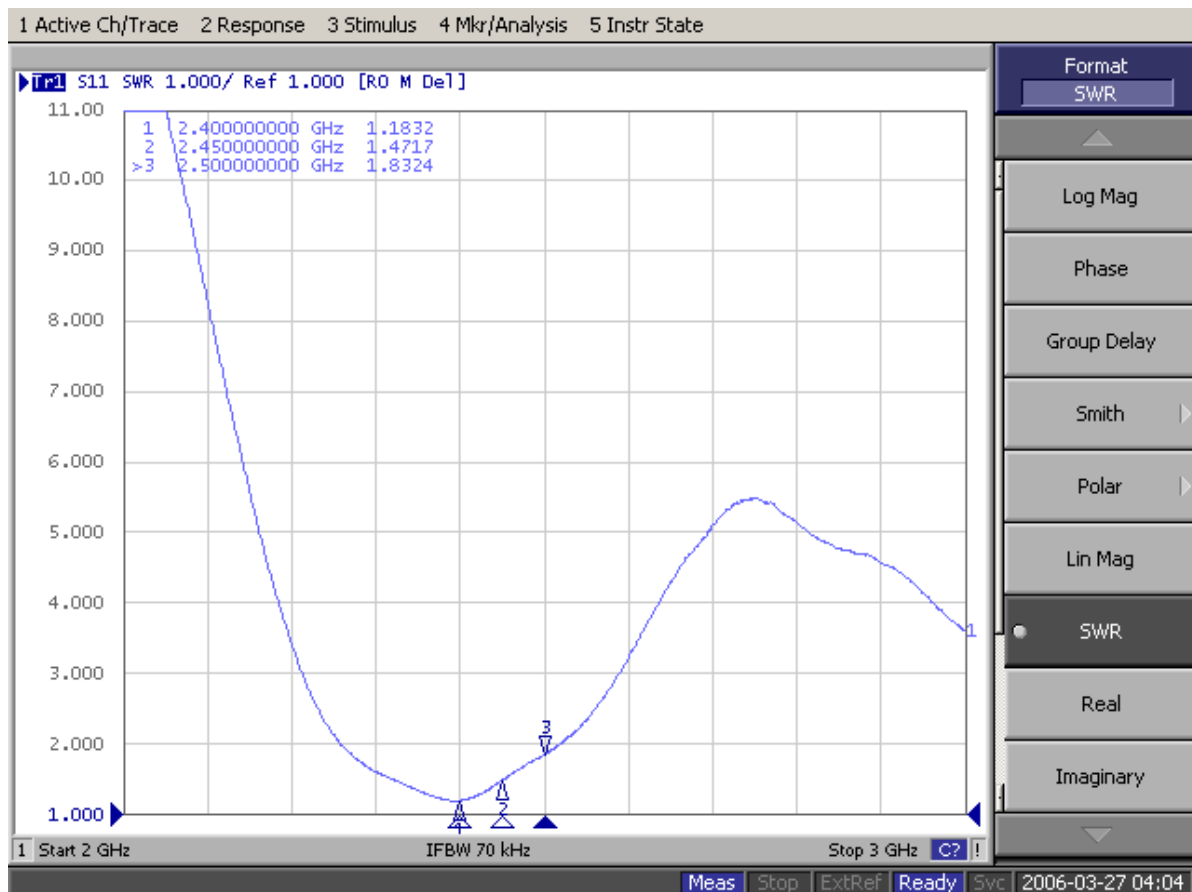
- a. FIC Project Name & FIC P/N : GE2(TOP)
- & Frequency : 24~2.5GHz
- b. Vendor's antenna P/N : K05004001201
- c. Antenna P/N & type & material
- d. Coaxial cable length & diameter(Φ) : 148mm(Right, Black) & 1.13Φ
- & Cable P/N
- & Vendor
- e. Connector model no. & vendor

3. Bluetooth TOP/Ant

2.4~2.5GHZ & 5.15~5.875GHZ / Return Loss



2.4~2.5GHZ & 5.15~5.875GHZ / VSWR



4. Gain & Pattern –Bluetooth TOP/Ant

5. a. 2.4GHz



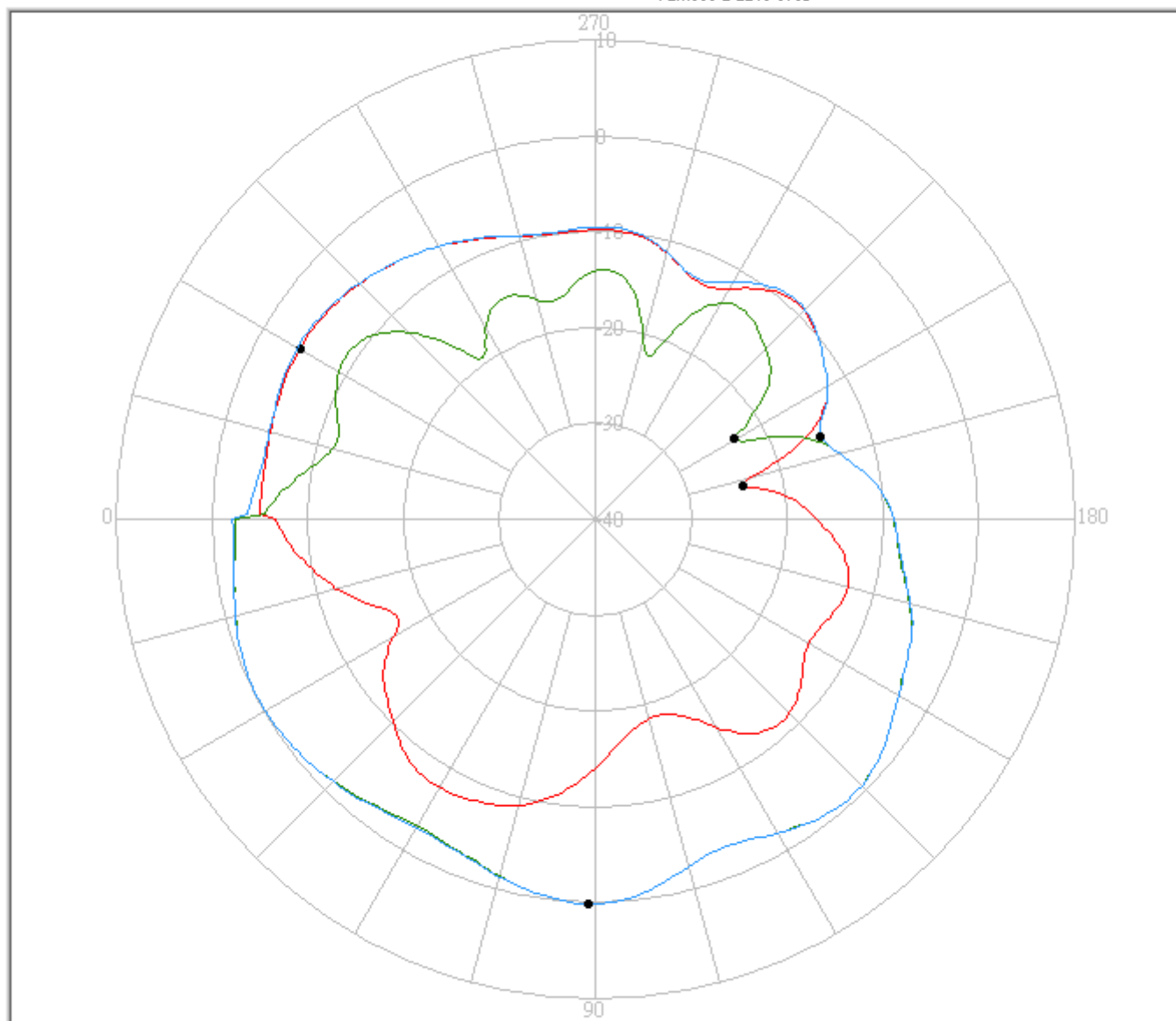
eService for Customer Satisfaction

FAVORTRON

FAVORTRON Co. Ltd

Antenna Pattern Measurement

4F, No. 108-1, Min Chuan Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C. Tel:886-2-2218-2189,
Fax:886-2-2218-5760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	GE2	TO	2400.00	-4.43 / 330.00	-24.18 / 193.00	-9.47	Ver.	2006/3/22
2	GE2	TOP	2400.00	0.12 / 89.00	-23.19 / 210.00	-4.56	Hor.	2006/3/22
3	GE2	TOP	2400.00	0.13 / 89.00	-14.97 / 200.00	-3.85	V+H	2006/3/22

b. 2.45GHz



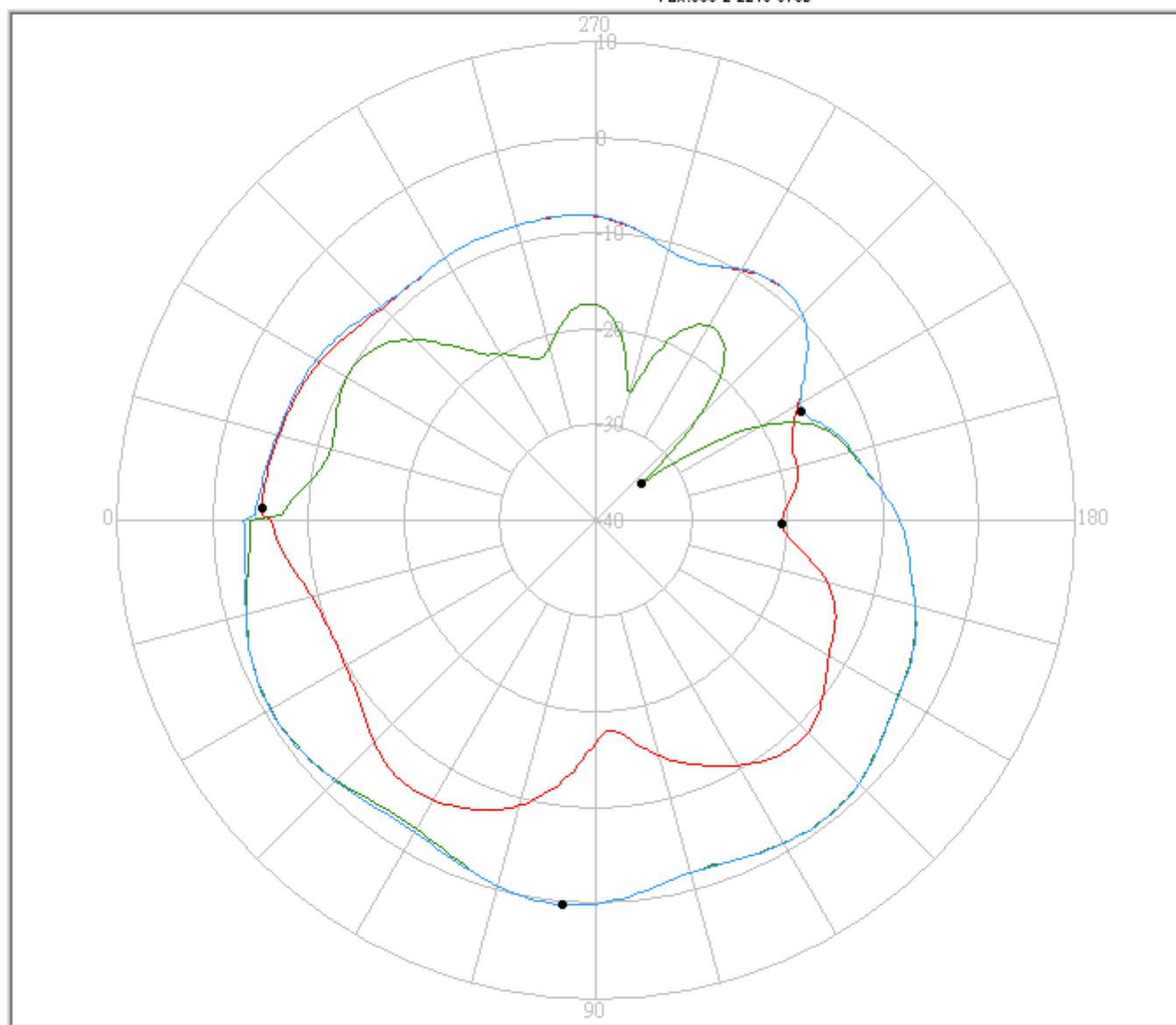
eService for Customer Satisfaction

FAVORTRON

FAVORTRON Co. Ltd

Antenna Pattern Measurement

4F, No. 108-1, Min Chuan Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C. Tel:886-2-2218-2189,
Fax:886-2-2218-5760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	GE2	TOP	2450.00	-5.15 / 358.00	-20.50 / 179.00	-9.30	Ver.	2006/3/22
2	GE2	TOP	2450.00	0.27 / 85.00	-33.87 / 219.00	-4.64	Hor.	2006/3/22
3	GE2	TOP	2450.00	0.27 / 85.00	-15.71 / 208.00	-3.96	V+H	2006/3/22

c. 2.5GHz



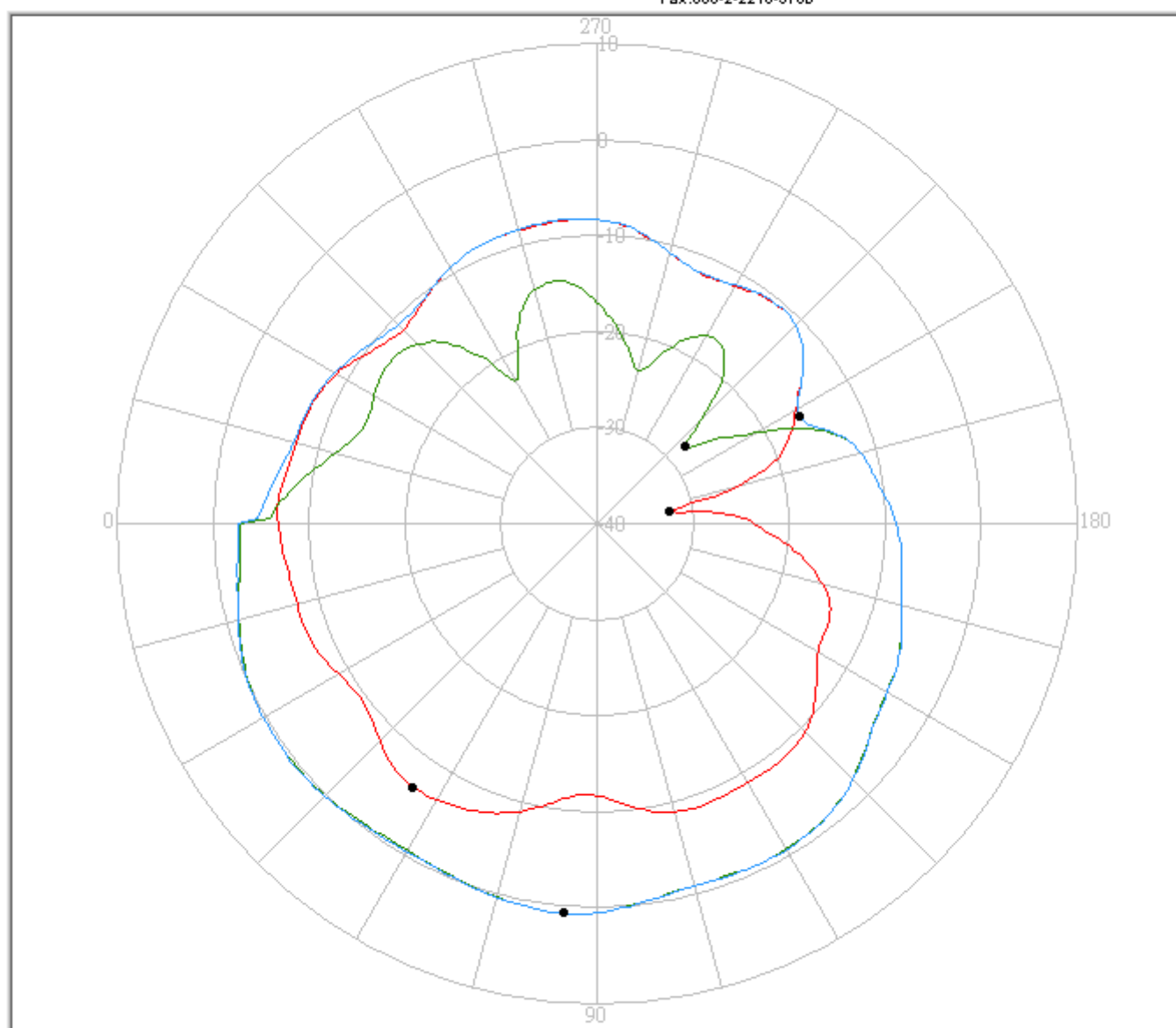
eService for Customer Satisfaction

FAVORTRON

FAVORTRON Co. Ltd

Antenna Pattern Measurement

4F, No. 108-1, Min Chuan Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C. Tel:886-2-2218-2189,
Fax:886-2-2218-5760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	GE2	TOP	2500.00	-6.54 / 55.00	-32.29 / 190.00	-9.67	Ver.	2006/3/22
2	GE2	TOP	2500.00	0.71 / 85.00	-27.75 / 221.00	-4.09	Hor.	2006/3/22
3	GE2	TOP	2500.00	0.72 / 85.00	-16.20 / 208.00	-3.64	V+H	2006/3/22