

ATTN: 杜聰明

DATE : 2006/02/21

CUSTOMER : UNIWILL CORP.

APPROVAL SHEET

MODEL	XPC
DESCRIPTION	PCB For Wireless LAN Antenna 2.4~2.5GHZ /4.9~5.875GHZ
SUPPLIER P/N	-----
CUSTOMER P/N	-----
FILE P/N	

FAVORTRON			CUSTOMER	
Manager	Supervisor	Engineer		
Jesse	Jesse	Nick		

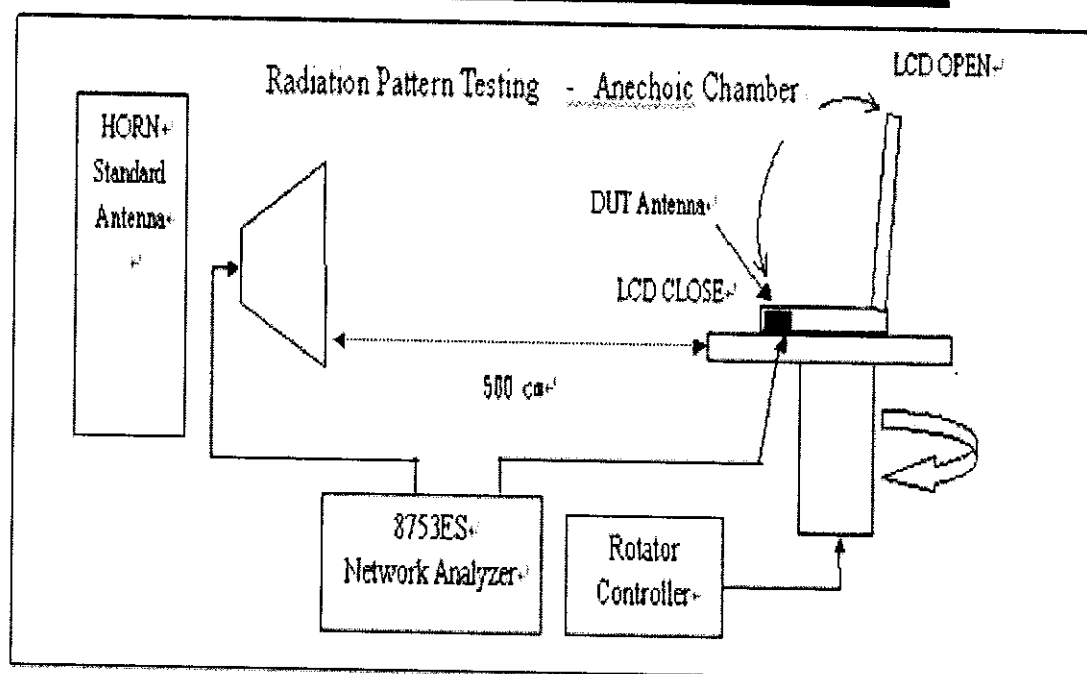


惠貿電子股份有限公司
FAVORTRON CO., LTD

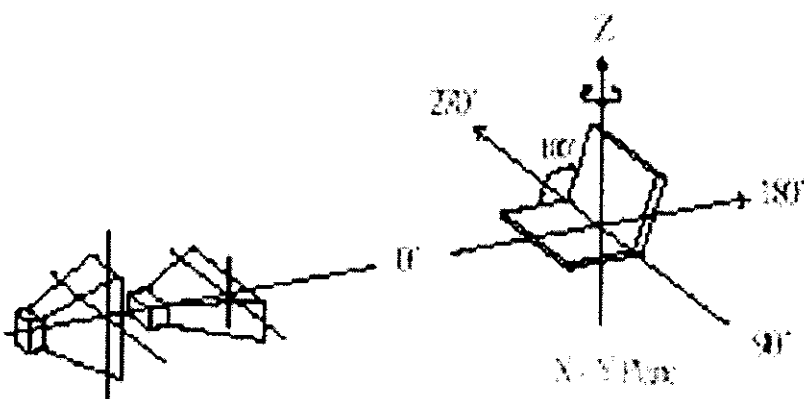
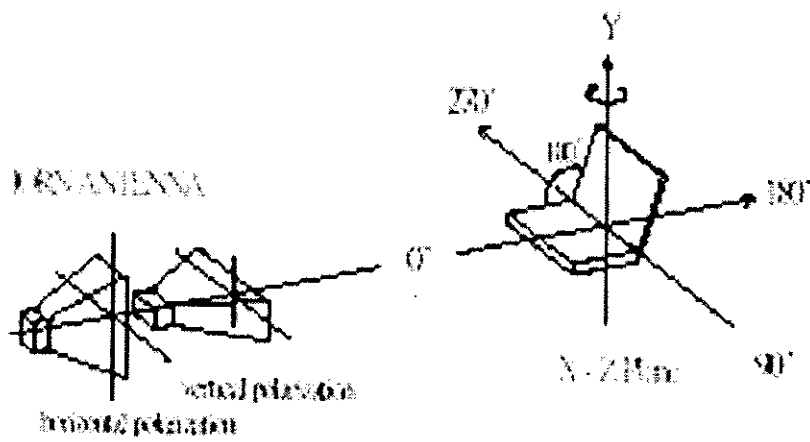
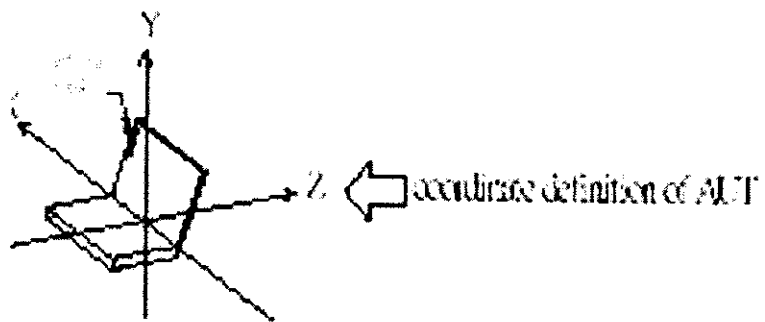
台北縣新店市民權路 108-1 號 4F
4F, No. 108-1, Minchziuan Rd., SHzindian City,
Taipei HZsien 231, Taiwan. R.O.C

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

天線測試方法

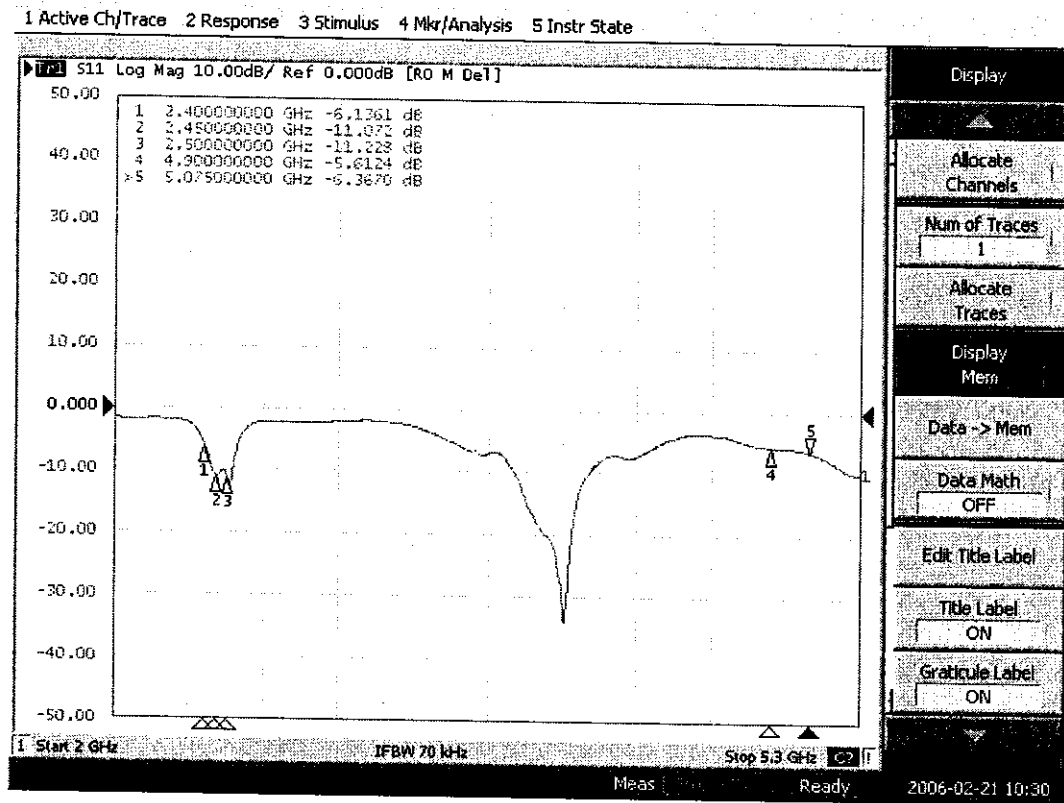


Coordinate Definition

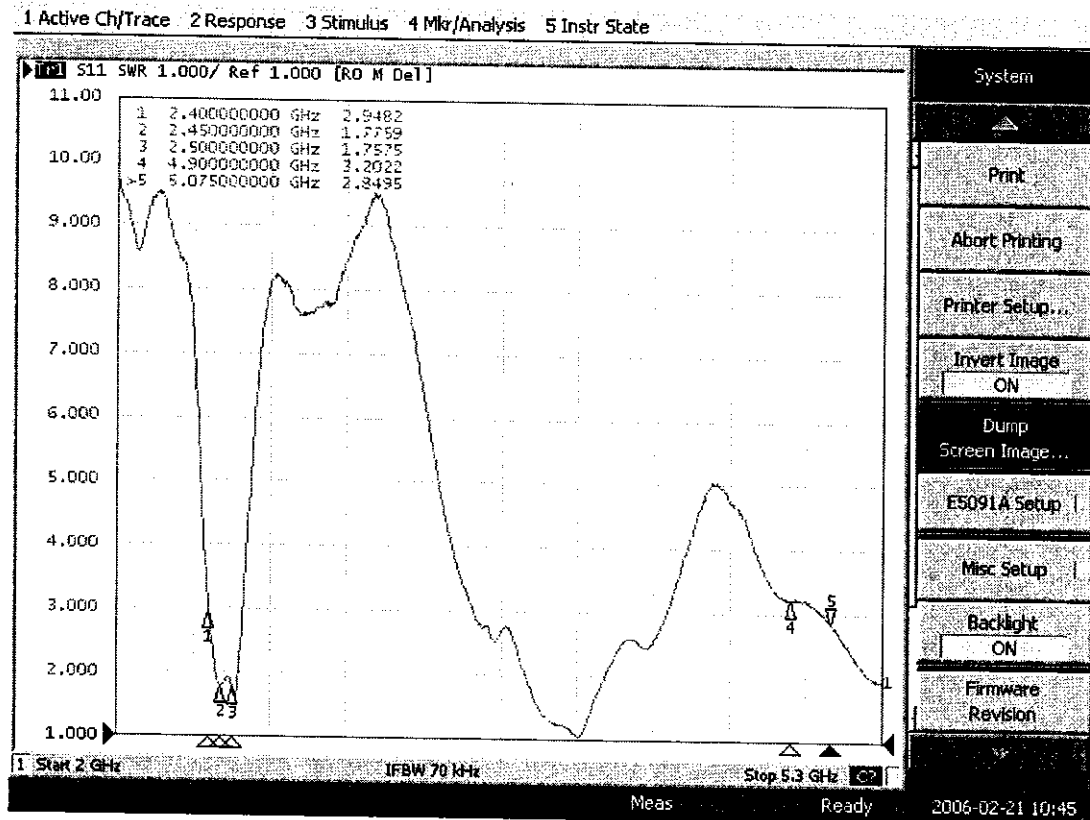


2. WLAN Ant./ (FRONT)

2.4~5.075GHZ / Return Loss

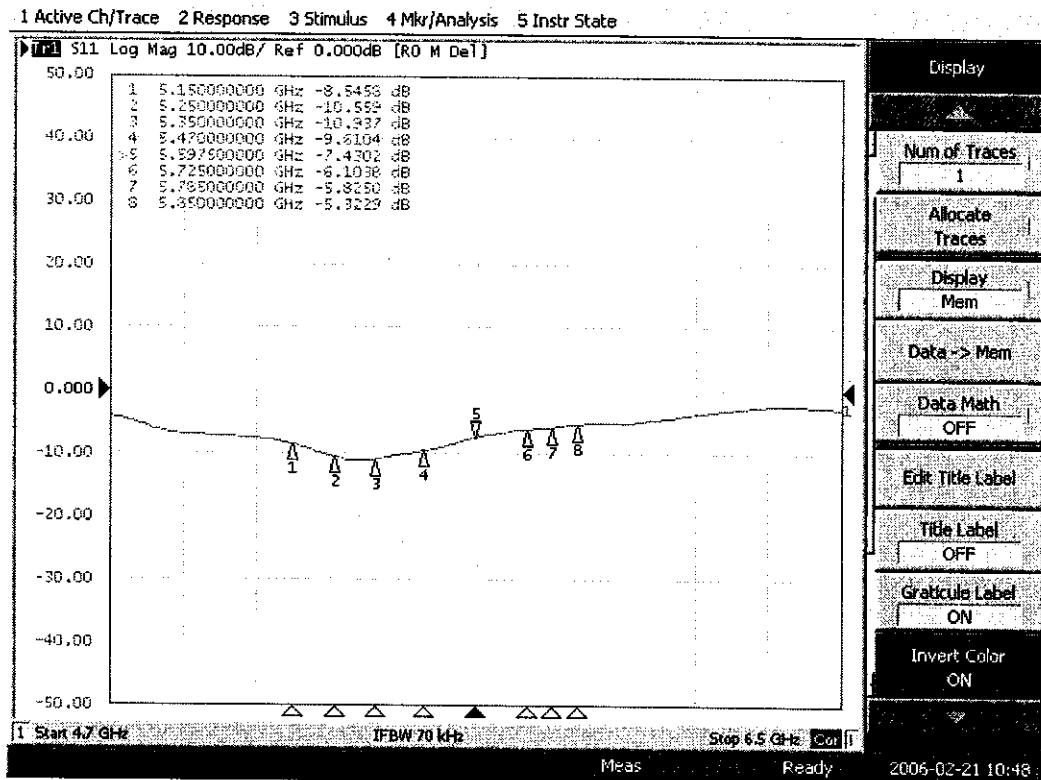


2.4~5.075GHZ / VSWR

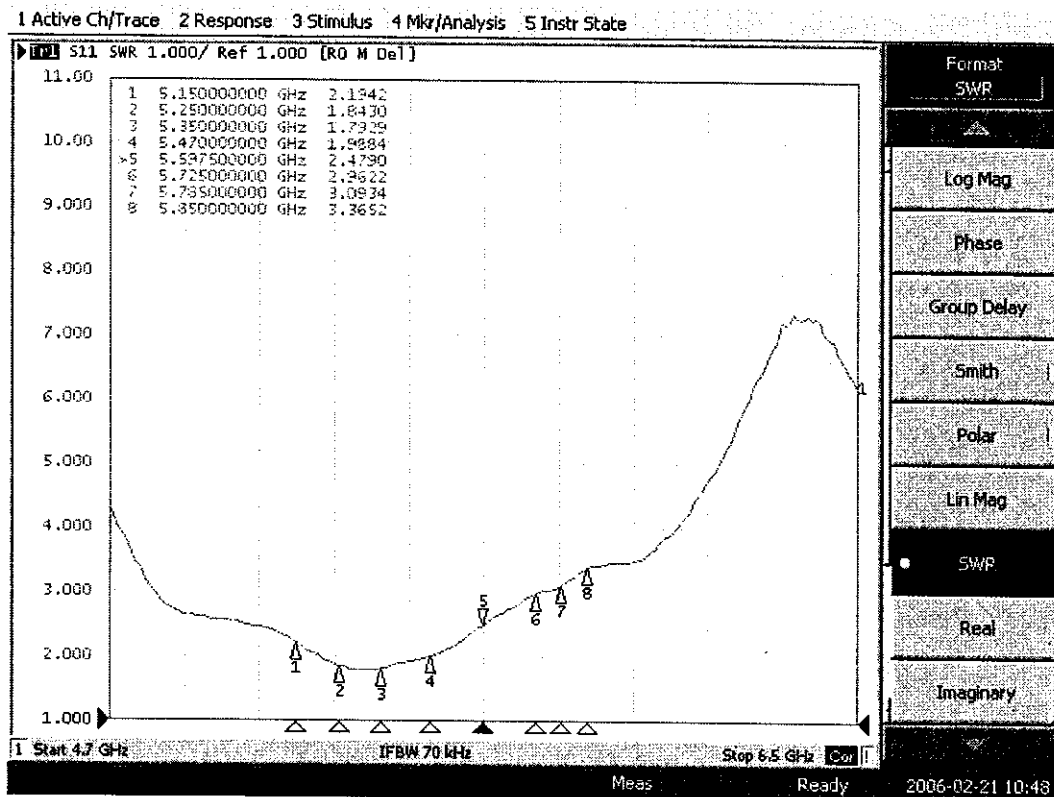


WLAN Ant./ (FRONT)

5.15~5.875GHZ/Return Loss

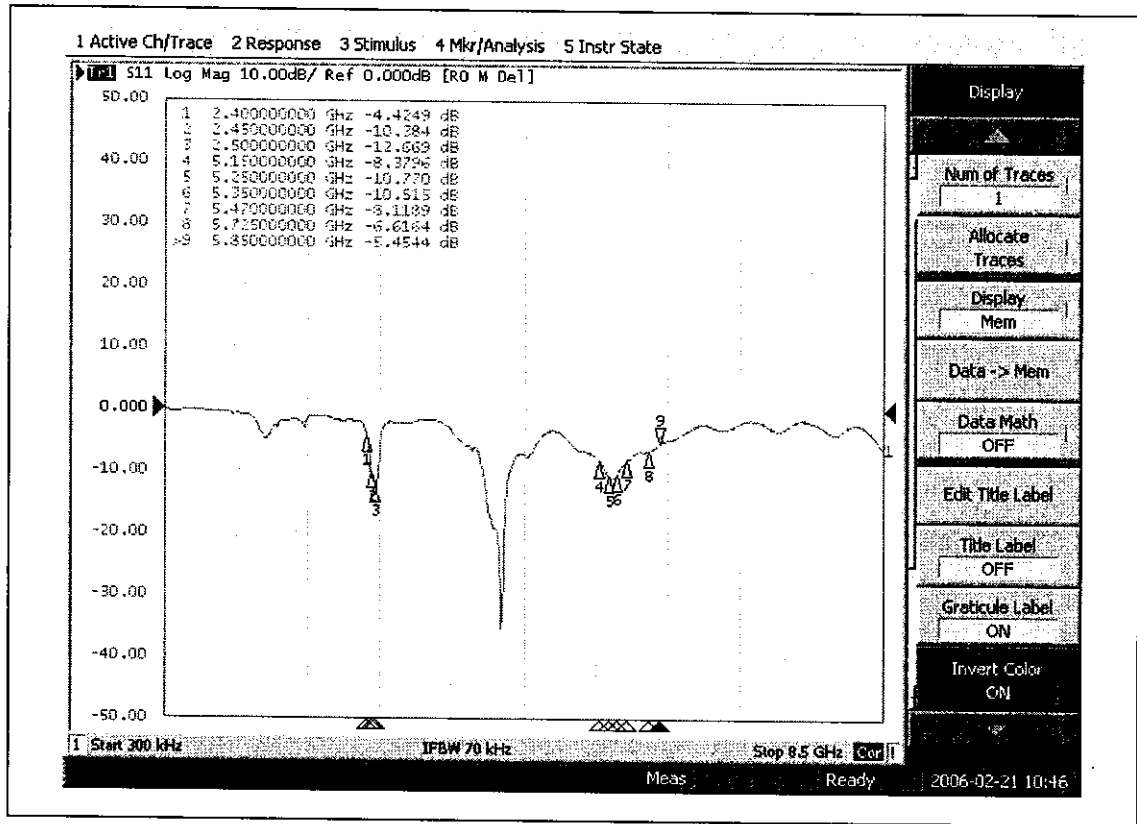


4.9~5.875GHZ/VSWR

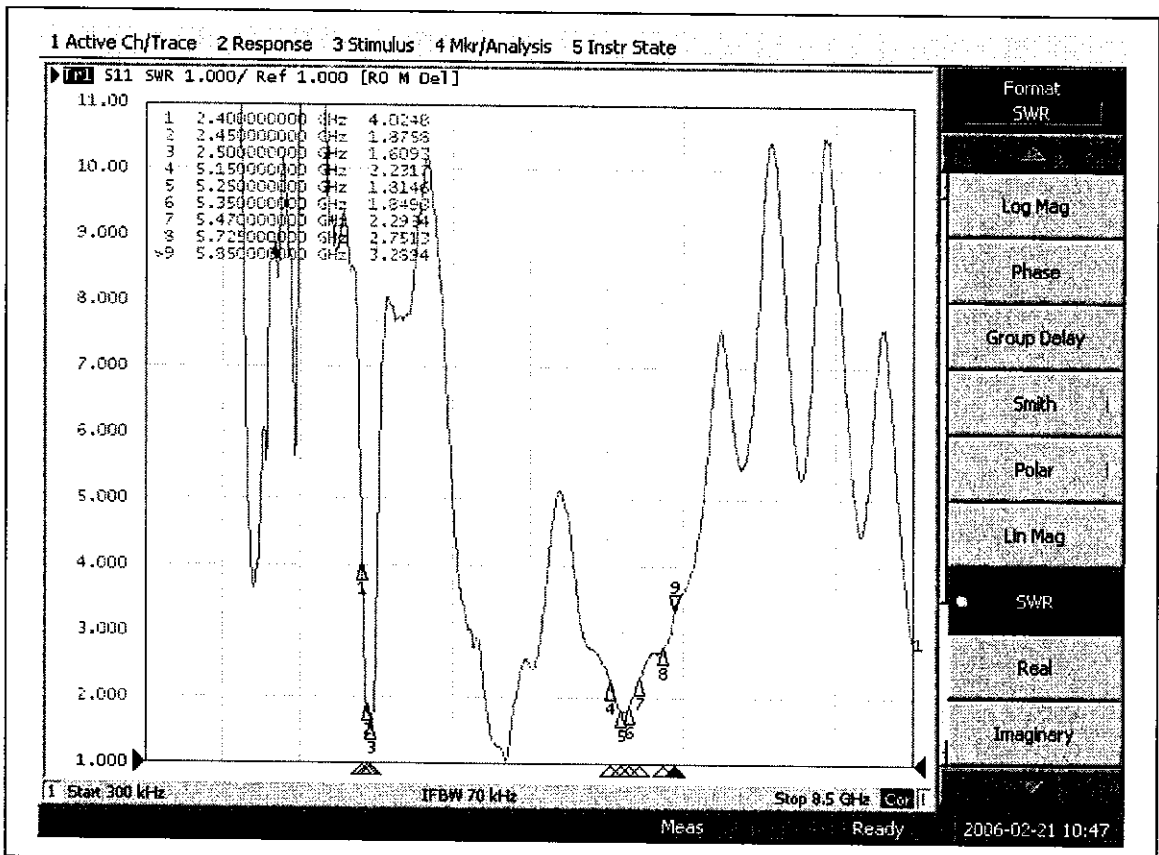


WLAN Ant./ (FRONT)

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



2.4~2.5GHZ & 5.15~5.875GHZ/VSWR



3. Gain & Pattern –FRONT

a. 2.4GHz

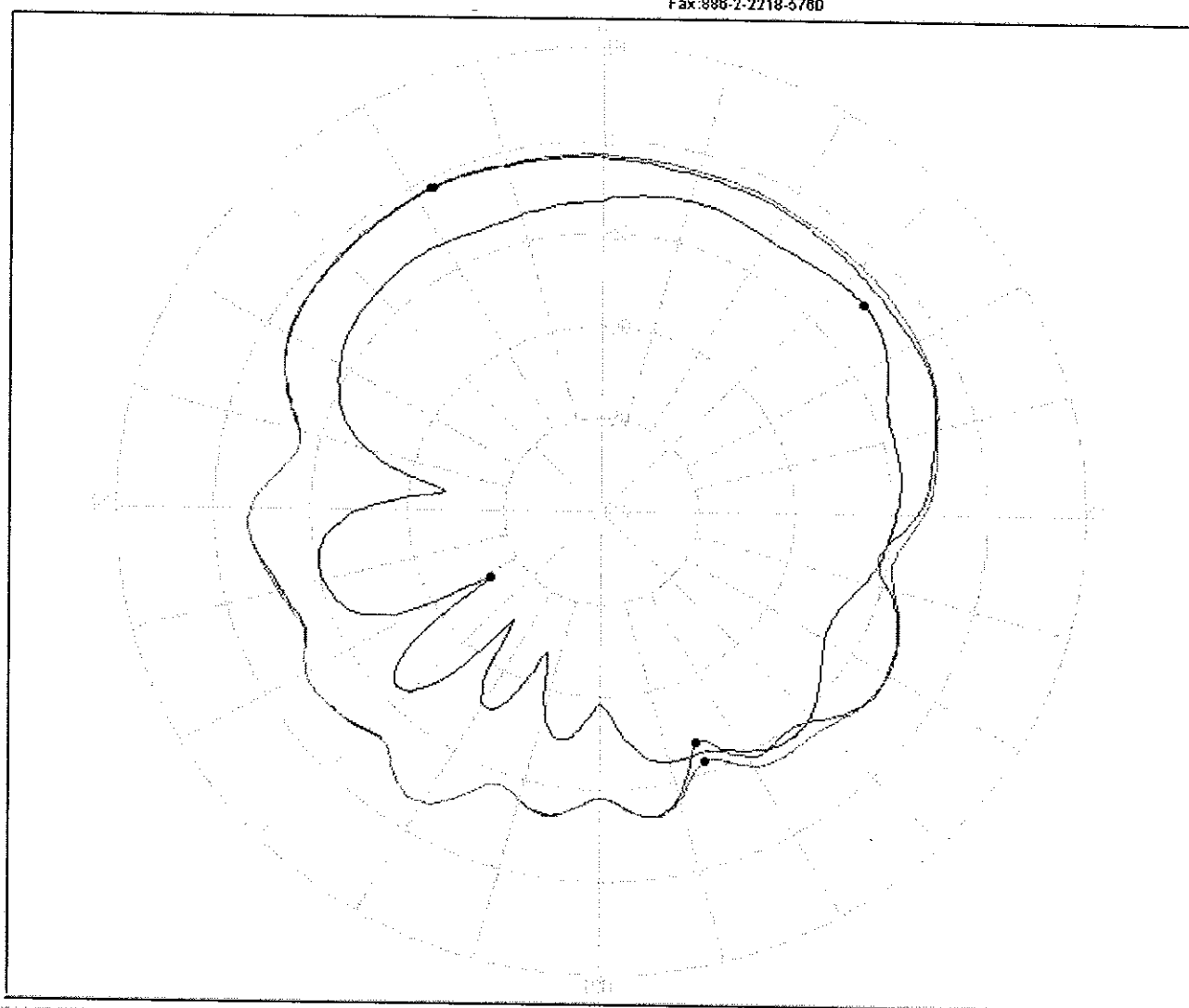


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FAVORTRON Antenna Pattern Measurement

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	XPC	前	2400.00	-4.88 / 310.00	-26.51 / 122.00	-9.10	Ver.	2006/2/8
2	XPC	前	2400.00	-1.19 / 27.00	-13.42 / 202.00	-4.36	Hor.	2006/2/8
3	XPC	前	2400.00	-1.06 / 27.00	-11.17 / 202.00	-4.07	V+H	2006/2/8

b. 2.45GHz

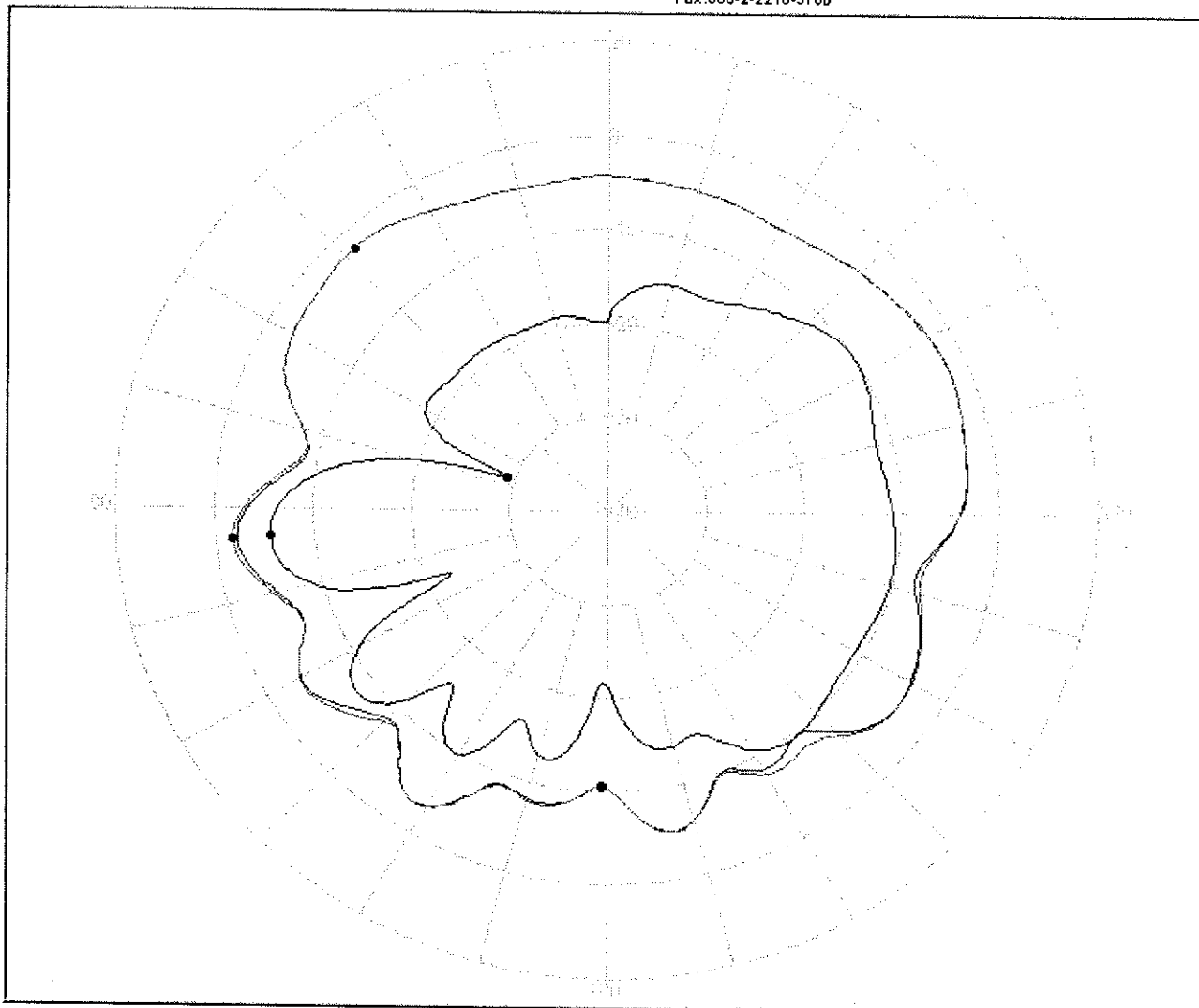


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Fax:886-2-2218-5760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	2450.00	-5.64 / 95.00	-29.24 / 71.00	-12.03	Ver.	2006/2/8
2	XPC	前	2450.00	-2.07 / 43.00	-10.61 / 179.00	-4.74	Hor.	2006/2/8
3	XPC	前	2450.00	-1.83 / 95.00	-10.60 / 179.00	-4.60	V+H	2006/2/8

c. 2.5GHz

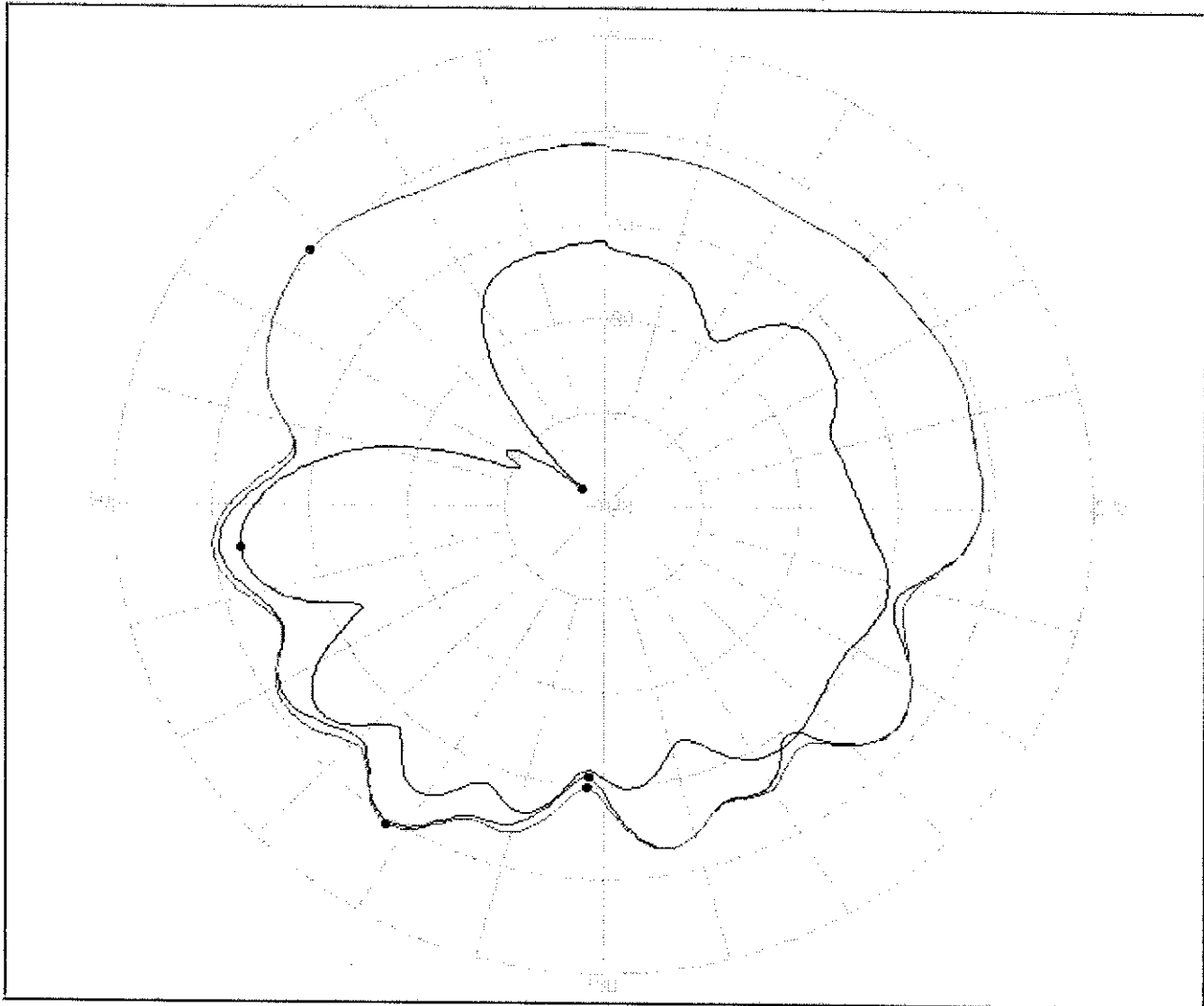


dedicated for Customer satisfaction

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Fax:886-2-2218-6780



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	2500.00	-2.74 / 97.00	-37.20 / 50.00	-9.60	Ver.	2006/2/8
2	XPC	前	2500.00	0.44 / 48.00	-11.06 / 177.00	-2.70	Hor.	2006/2/8
3	XPC	前	2500.00	0.56 / 147.00	-9.86 / 177.00	-2.50	V+H	2006/2/8

d. 4.9GHz

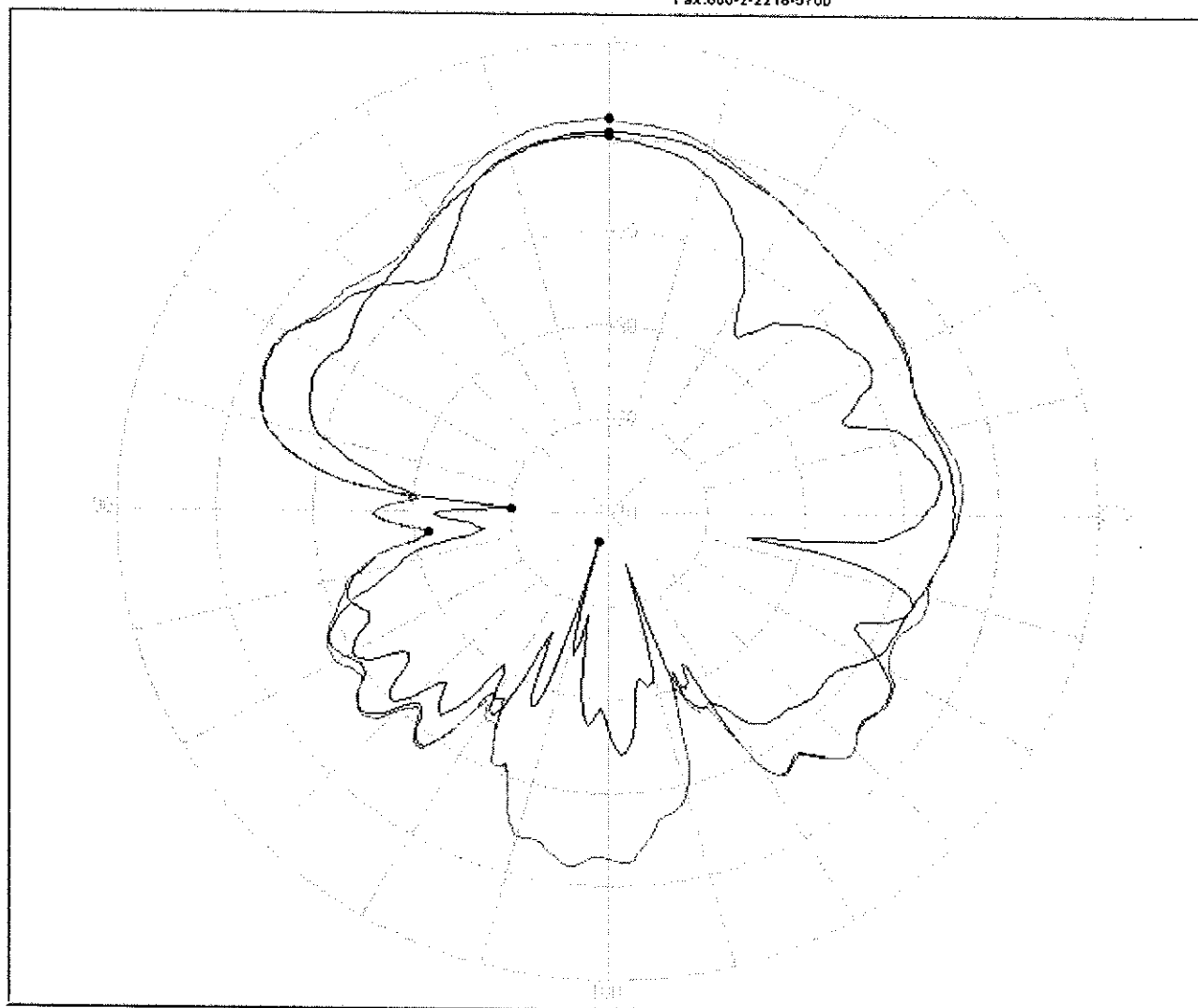


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	4900.00	0.53 / 0.00	-36.67 / 164.00	-5.97	Ver.	2006/2/8
2	XPC	前	4900.00	0.19 / 0.00	-30.01 / 88.00	-5.92	Hor.	2006/2/8
3	XPC	前	4900.00	1.87 / 0.00	-21.61 / 97.00	-4.06	V+H	2006/2/8

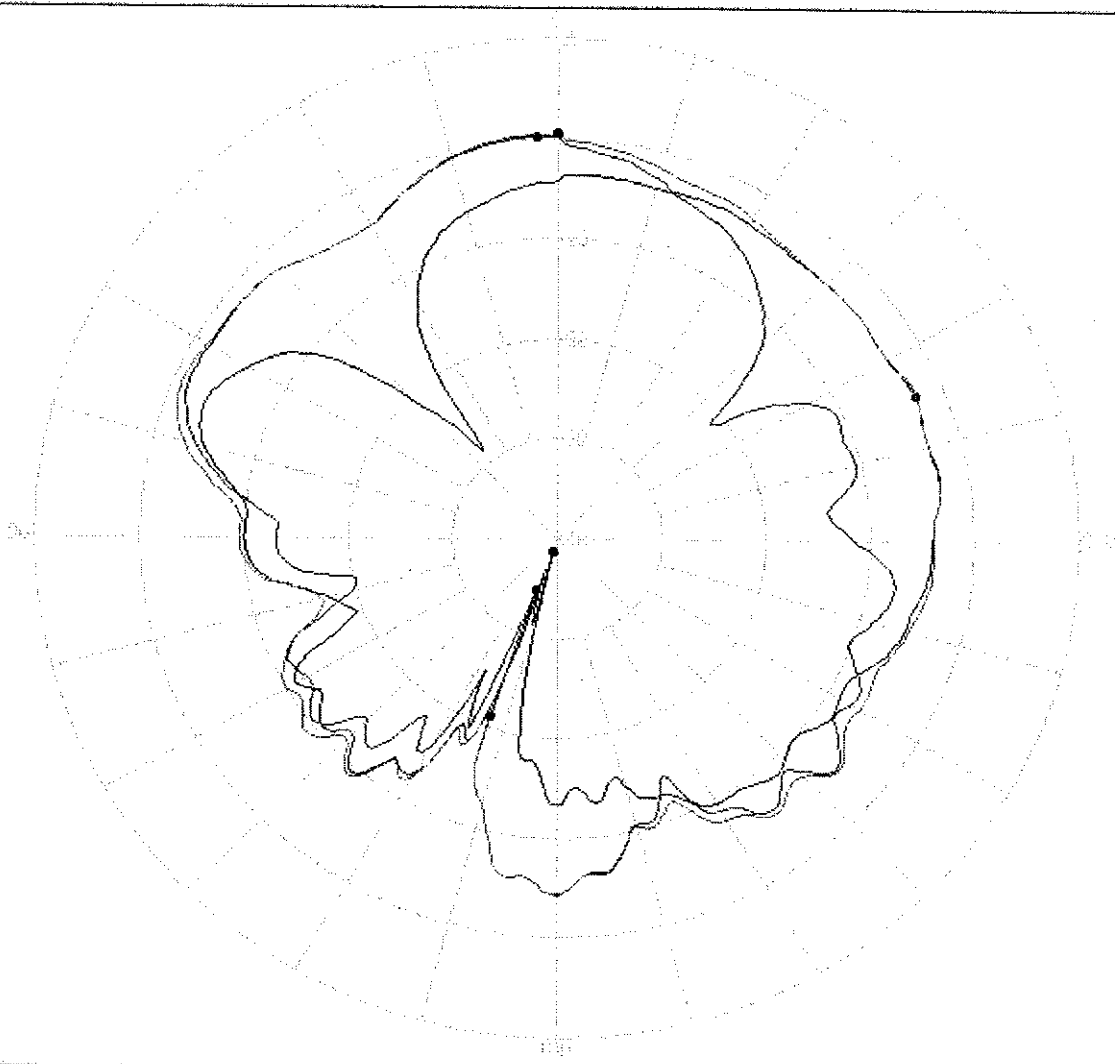
e. 5.075GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5075.00	-2.83 / 293.00	-38.63 / 166.00	-6.88	Ver.	2006/2/8
2	XPC	前	5075.00	0.15 / 3.00	-34.41 / 159.00	-5.83	Hor.	2006/2/8
3	XPC	前	5075.00	0.40 / 0.00	-21.19 / 160.00	-4.28	V+H	2006/2/8

f. 5.15GHz

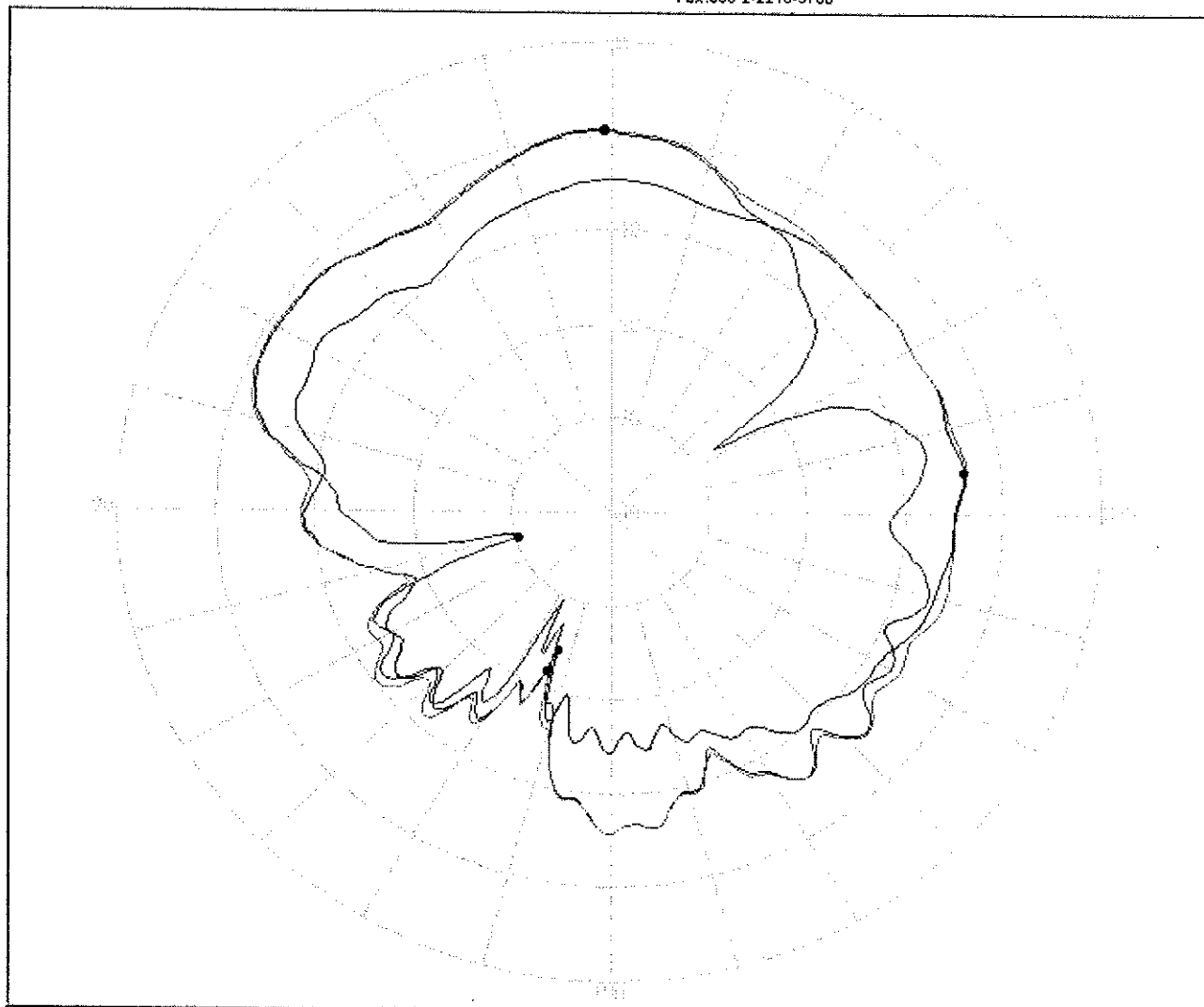


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5150.00	-3.79 / 277.00	-24.34 / 160.00	-7.67	Ver.	2006/2/8
2	XPC	前	5150.00	0.55 / 1.00	-30.31 / 106.00	-5.67	Hor.	2006/2/8
3	XPC	前	5150.00	0.73 / 1.00	-22.00 / 159.00	-4.58	V+H	2006/2/8

g. 5.25GHz

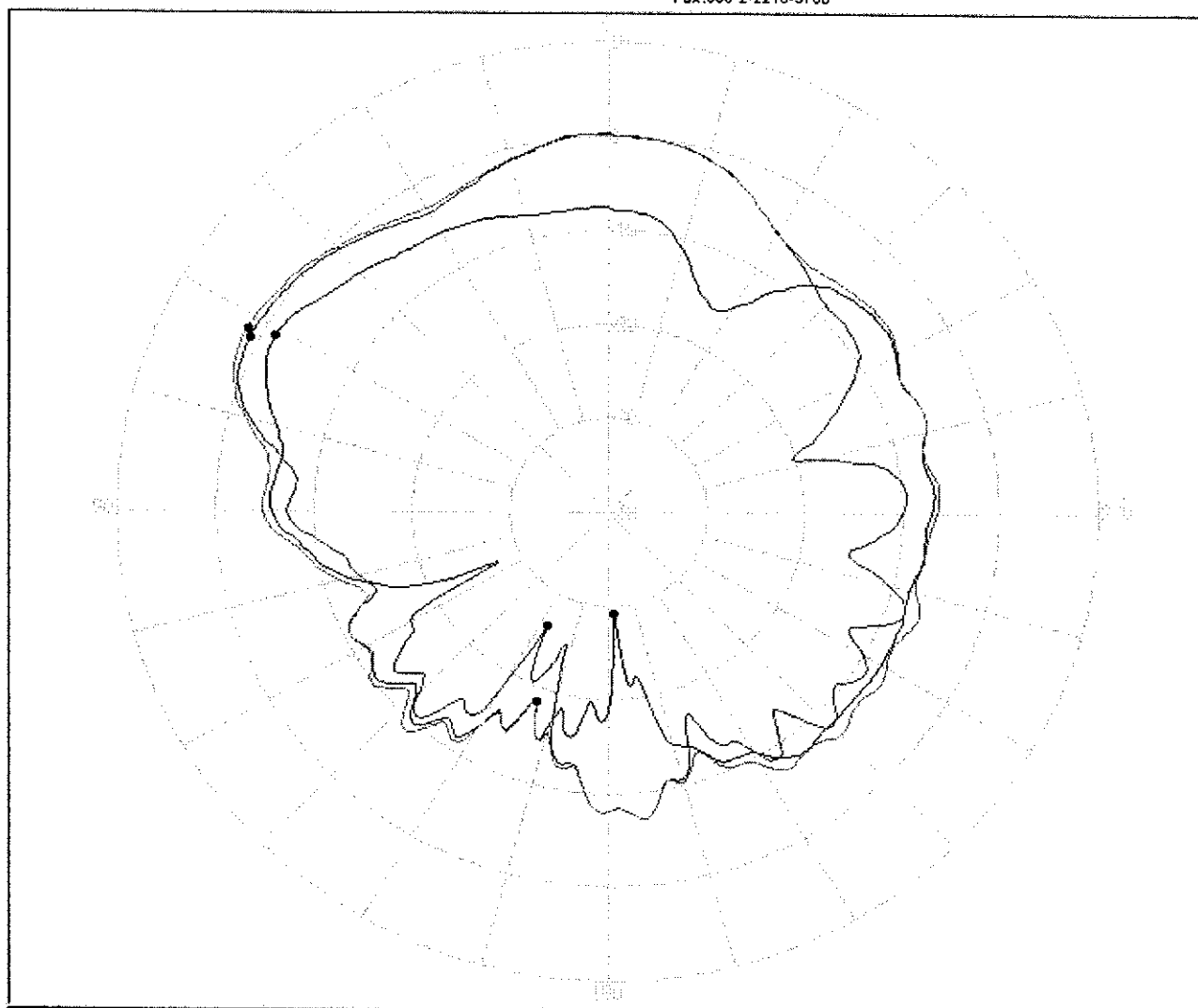


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5250.00	-1.32 / 61.00	-29.15 / 183.00	-7.73	Ver.	2006/2/8
2	XPC	前	5250.00	0.86 / 63.00	-26.48 / 153.00	-5.22	Hor.	2006/2/8
3	XPC	前	5250.00	1.53 / 62.00	-18.51 / 160.00	-4.34	V+H	2006/2/8

i. 5.47GHz

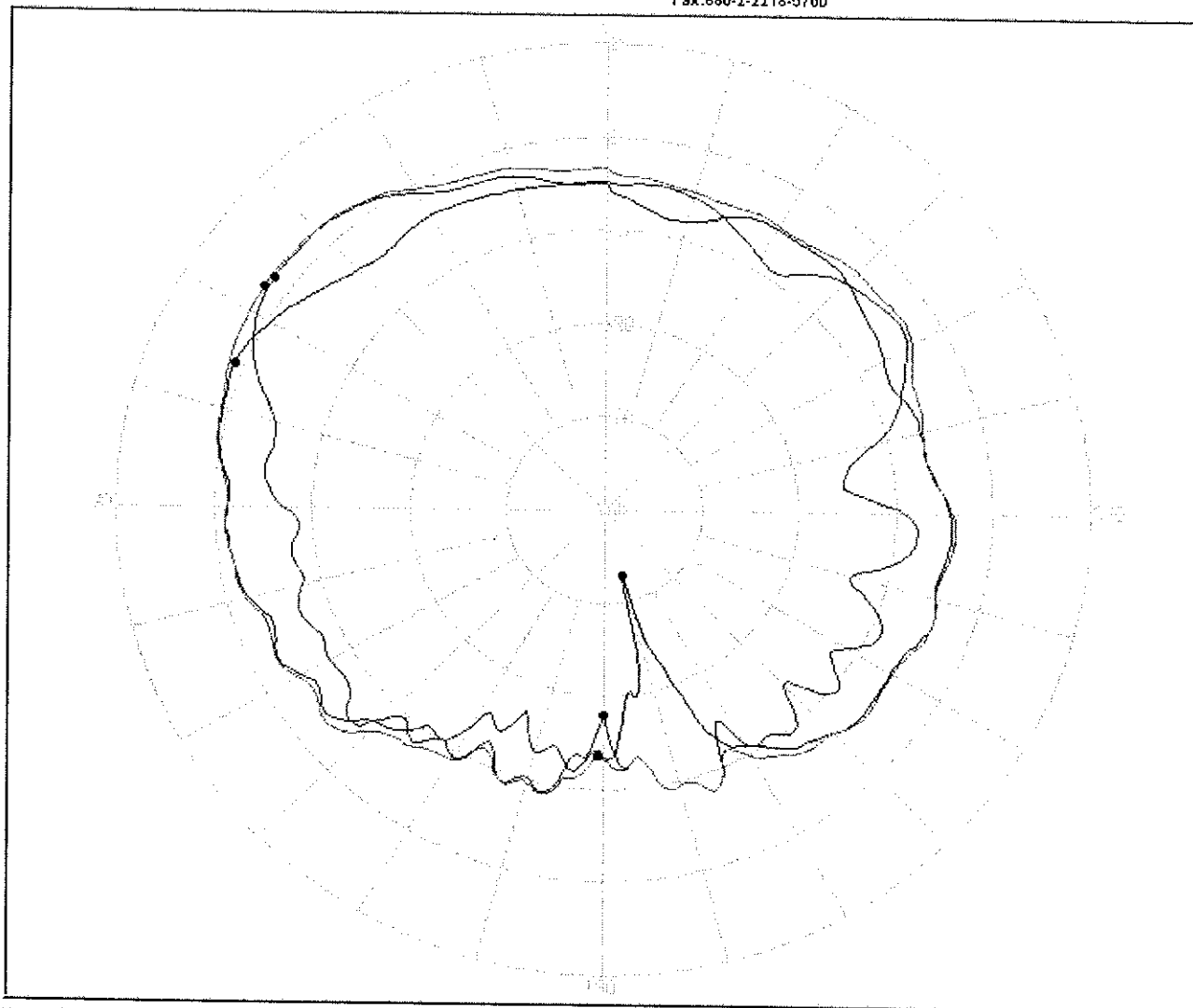


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5470.00	0.93 / 68.00	-32.75 / 195.00	-4.75	Ver.	2006/2/8
2	XPC	前	5470.00	1.90 / 54.00	-18.07 / 180.00	-5.07	Hor.	2006/2/8
3	XPC	前	5470.00	2.25 / 56.00	-13.60 / 179.00	-3.06	V+H	2006/2/8

j. 5.597GHz

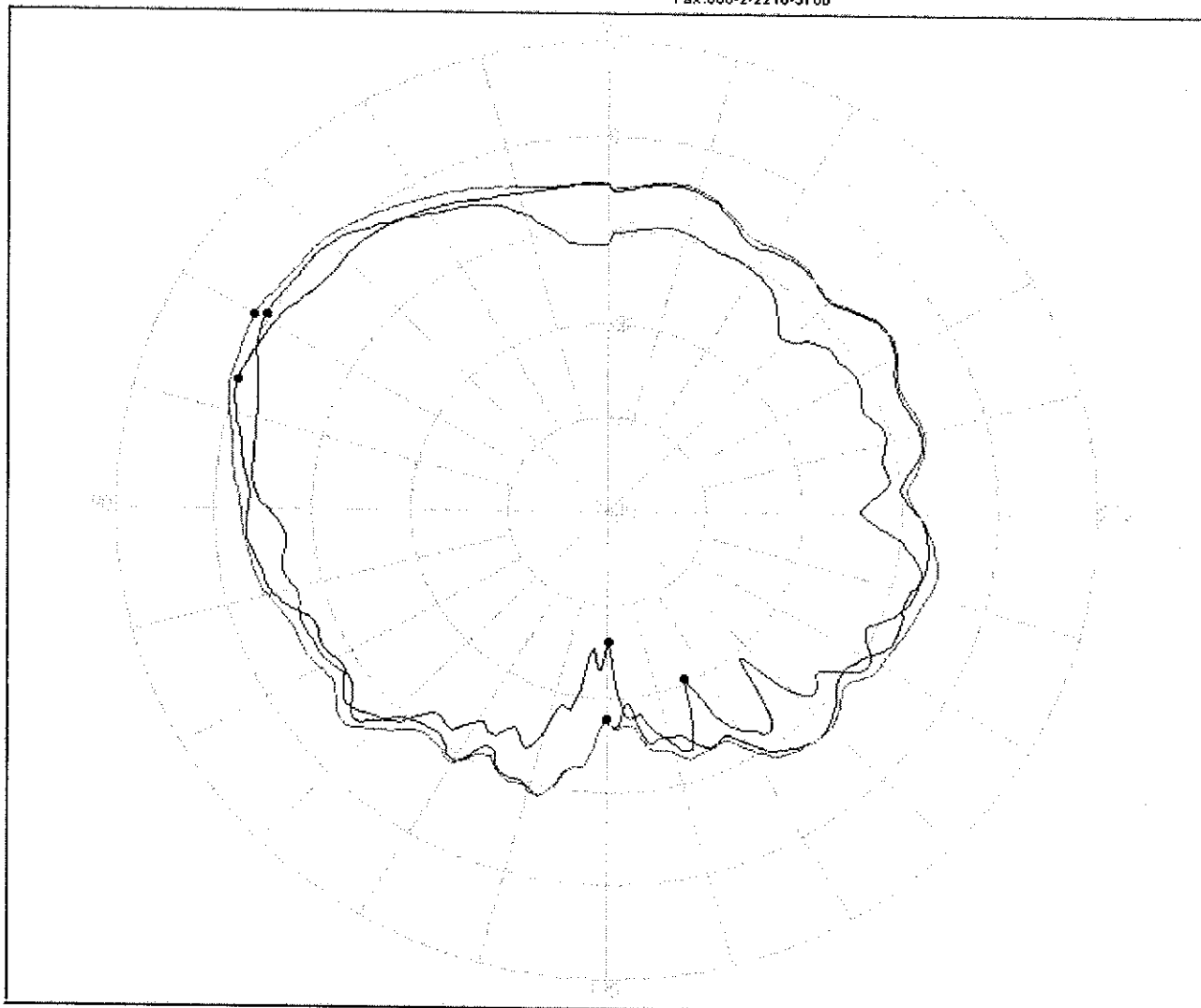


please refer to Customer Satisfaction

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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5597.50	0.03 / 70.00	-26.03 / 181.00	-5.84	Ver.	2006/2/8
2	XPC	前	5597.50	0.34 / 59.00	-20.53 / 204.00	-6.77	Hor.	2006/2/8
3	XPC	前	5597.50	1.35 / 60.00	-17.79 / 180.00	-4.60	V+H	2006/2/8

k. 5.725GHz

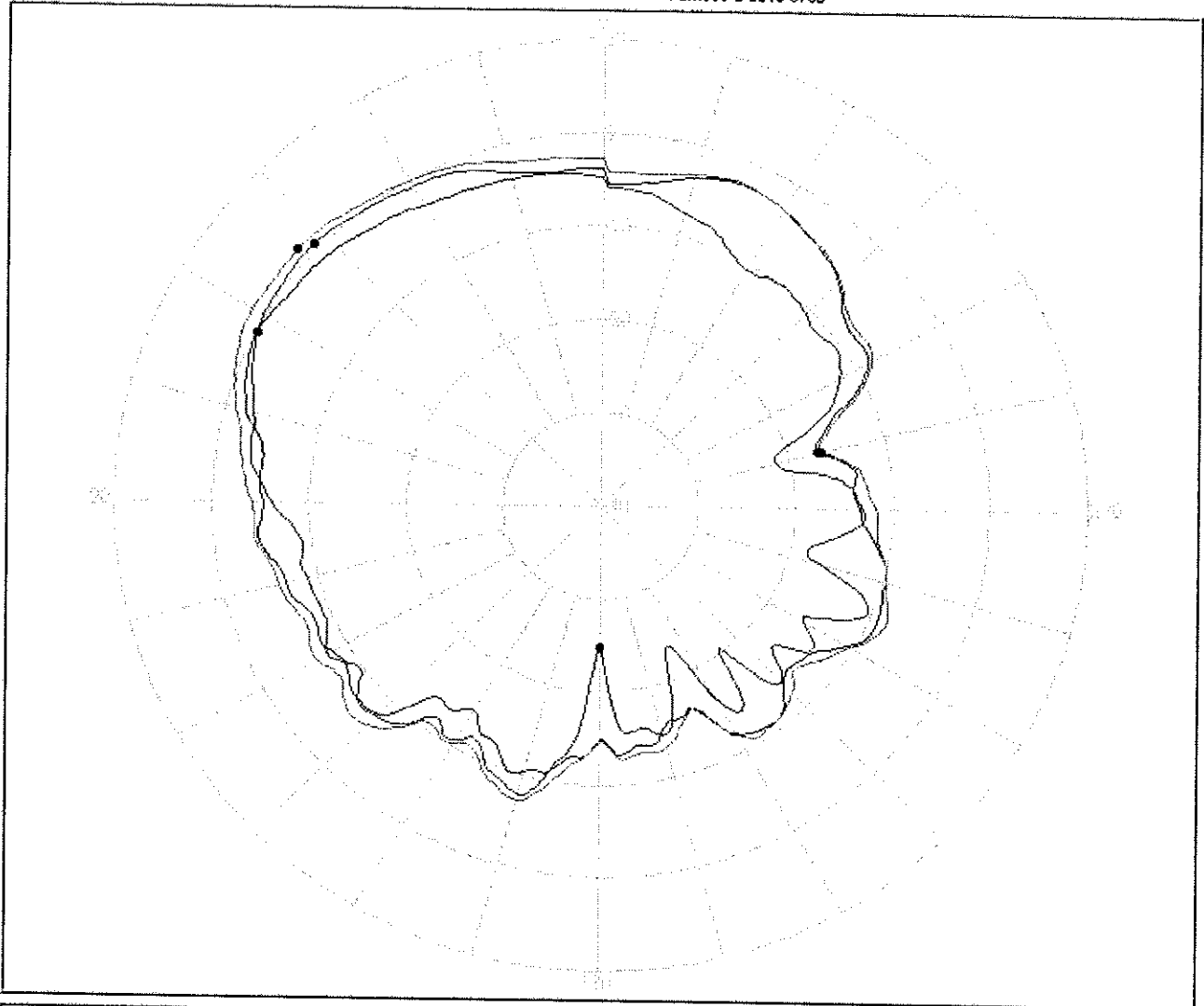


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5725.00	-0.23 / 63.00	-16.97 / 285.00	-5.95	Ver.	2006/2/8
2	XPC	前	5725.00	0.61 / 47.00	-24.83 / 180.00	-6.20	Hor.	2006/2/8
3	XPC	前	5725.00	1.40 / 49.00	-16.70 / 285.00	-4.42	V+H	2006/2/8

Hz. 5.35GHz

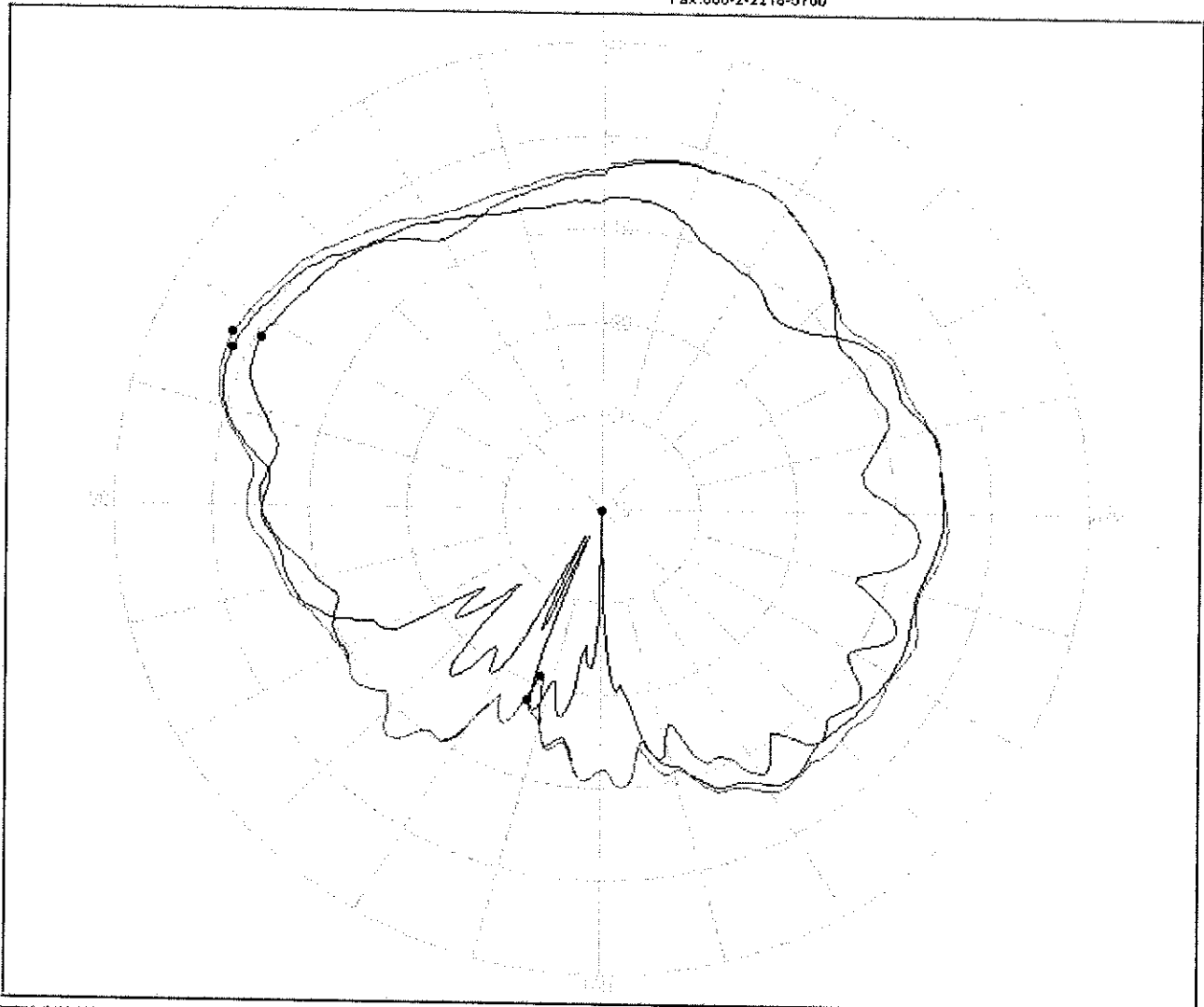


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Fax:886-2-2218-5760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5350.00	-0.64 / 63.00	-39.89 / 180.00	-6.69	Ver.	2006/2/8
2	XPC	前	5350.00	1.41 / 66.00	-21.02 / 161.00	-5.48	Hor.	2006/2/8
3	XPC	前	5350.00	2.09 / 64.00	-18.24 / 160.00	-4.25	V+H	2006/2/8

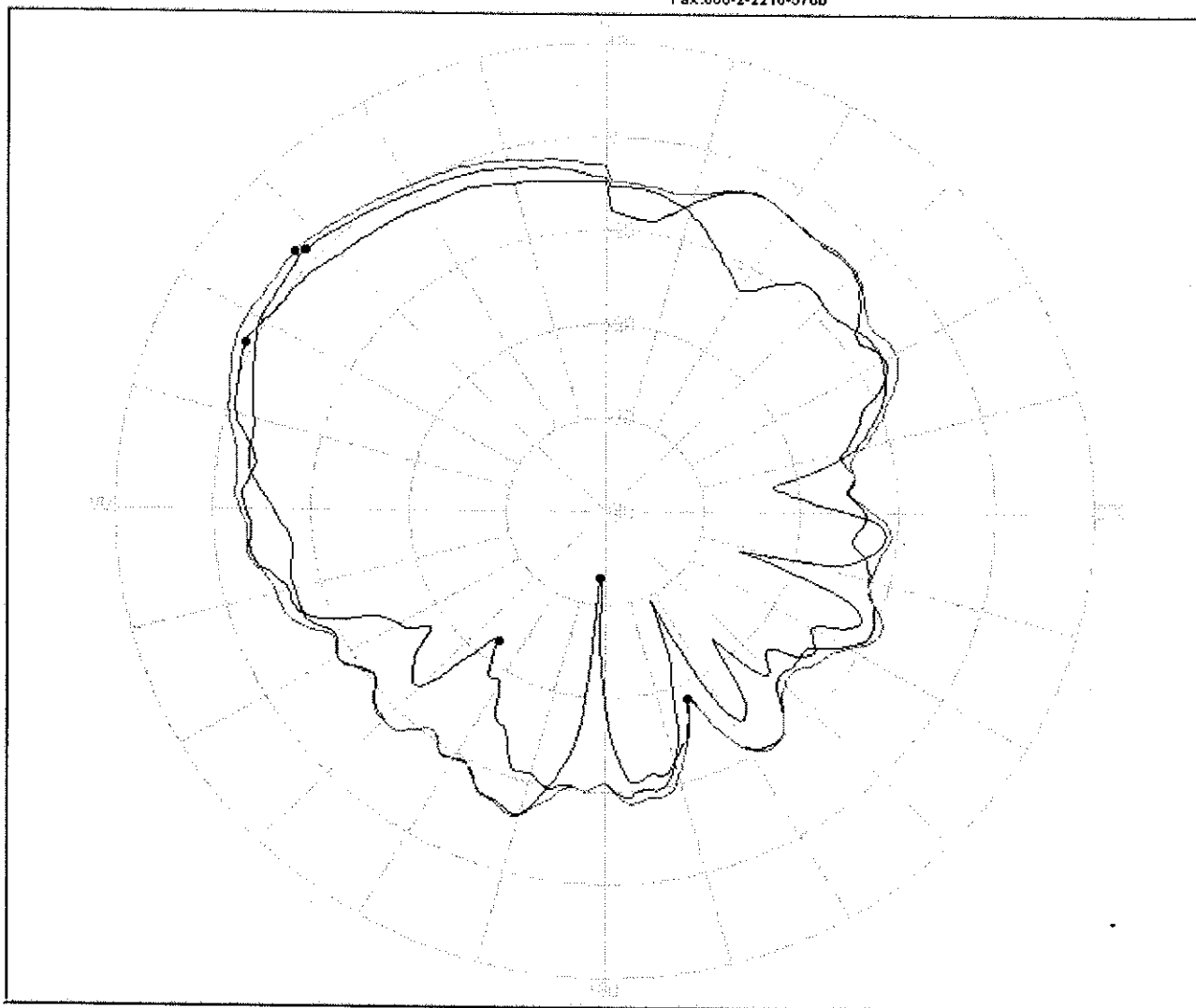
I. 5.785GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5785.00	0.70 / 64.00	-22.43 / 142.00	-5.81	Ver.	2006/2/8
2	XPC	前	5785.00	1.21 / 48.00	-32.87 / 176.00	-5.71	Hor.	2006/2/8
3	XPC	前	5785.00	1.91 / 49.00	-18.26 / 203.00	-4.07	V+H	2006/2/8

m. 5.85GHz

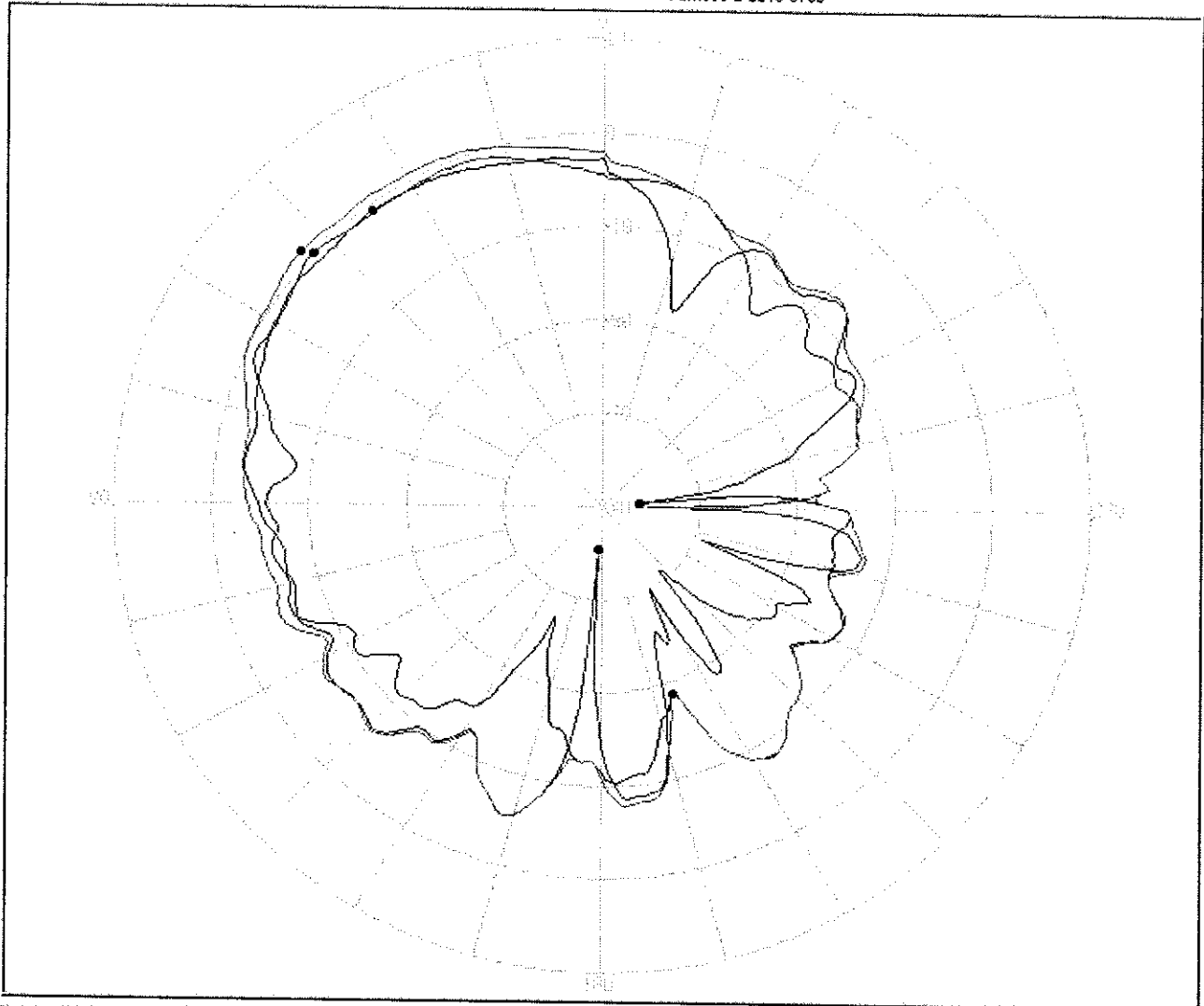


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Antenna Pattern Measurement

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Fax:886-2-2218-6760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5850.00	-0.74 / 37.00	-36.19 / 276.00	-6.64	Ver.	2006/2/8
2	XPC	前	5850.00	-0.07 / 48.00	-35.35 / 176.00	-6.08	Hor.	2006/2/8
3	XPC	前	5850.00	1.01 / 49.00	-18.69 / 200.00	-4.69	V+H	2006/2/8

n. 5.875GHz

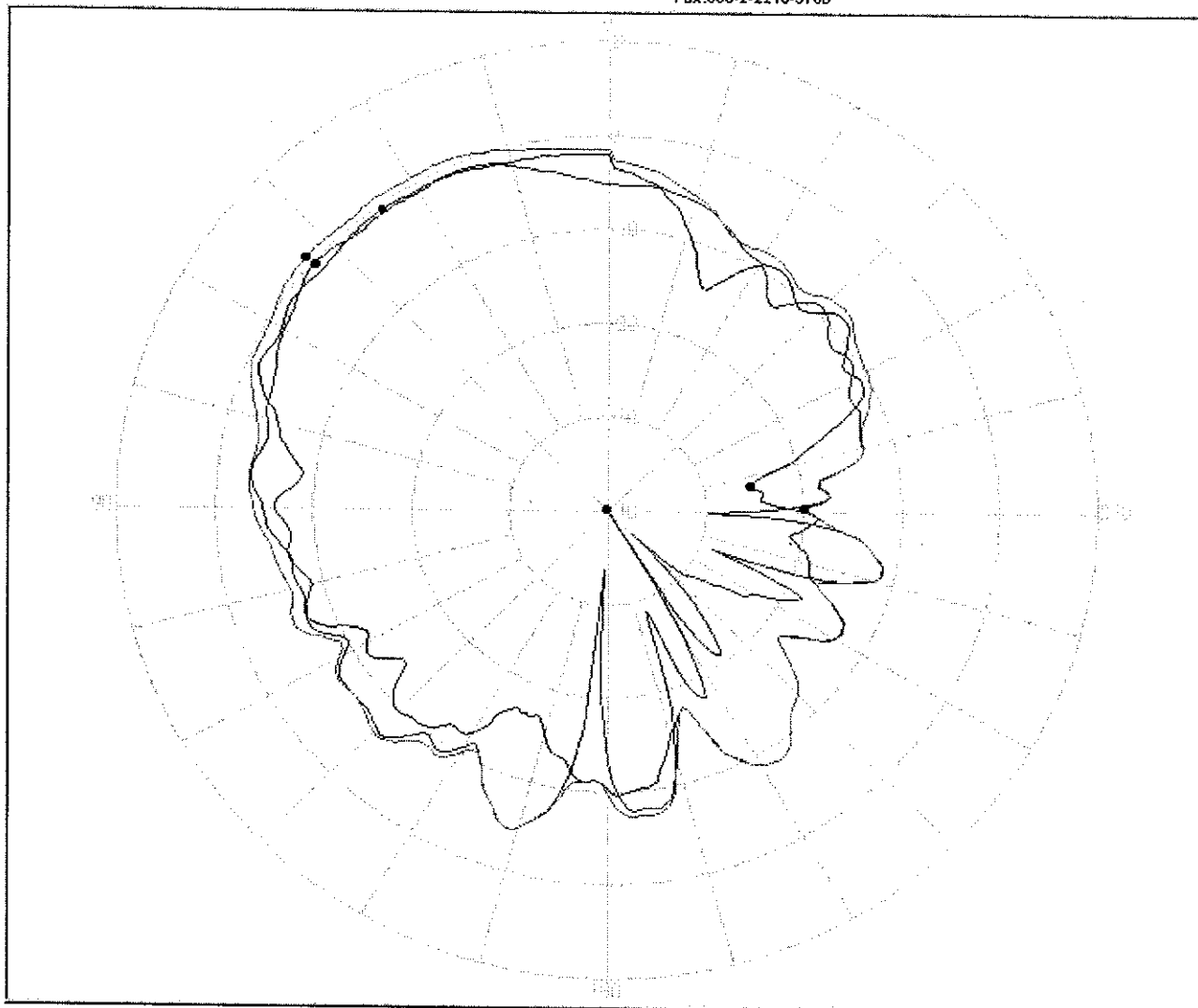


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FAVORTRON Antenna Pattern Measurement

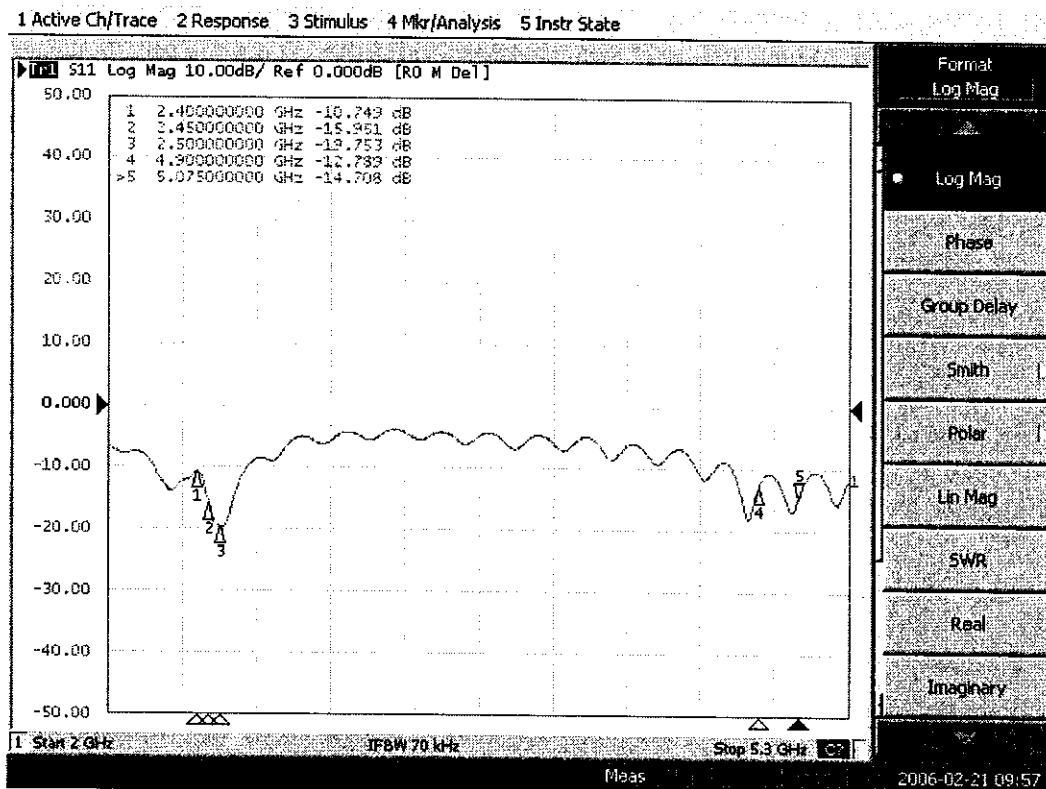
4F, No. 108-1, Min Chuan Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C. Tel:886-2-2218-2189,
Fax:886-2-2218-5760



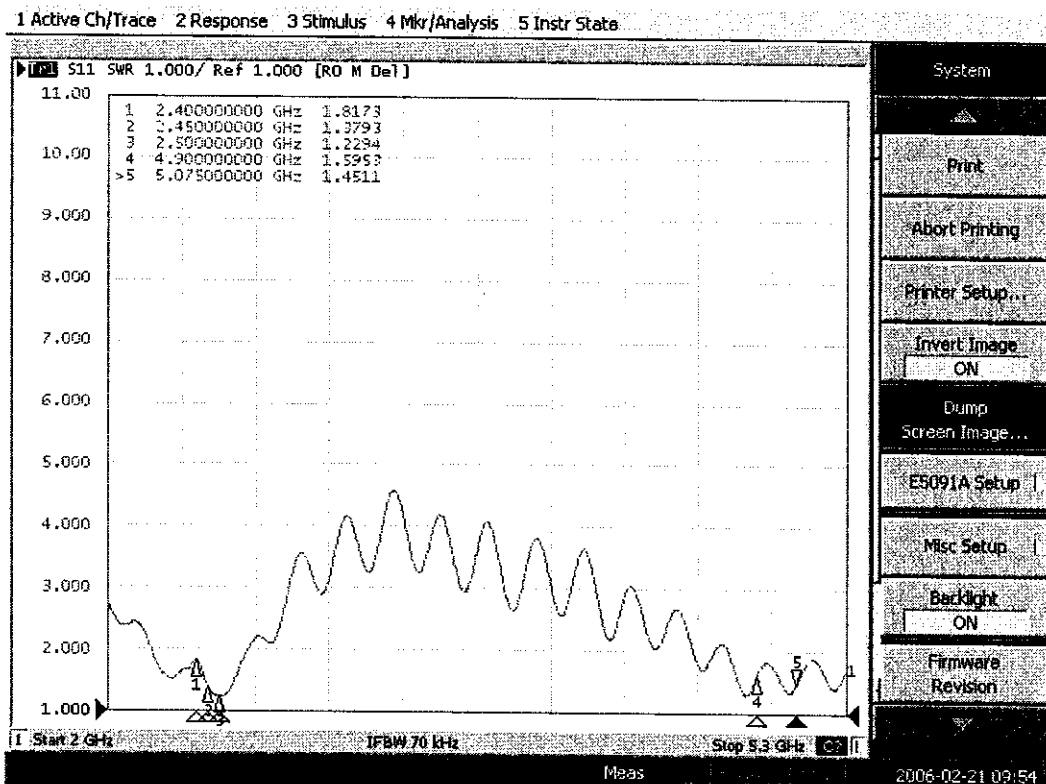
Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	前	5875.00	-0.64 / 36.00	-25.20 / 281.00	-6.56	Ver.	2006/2/8
2	XPC	前	5875.00	-0.34 / 49.00	-40.32 / 212.00	-6.32	Hor.	2006/2/8
3	XPC	前	5875.00	0.74 / 49.00	-20.01 / 271.00	-4.79	V+H	2006/2/8

4. WLAN Ant./ (BACK)

2.4~5.075GHz / Return Loss

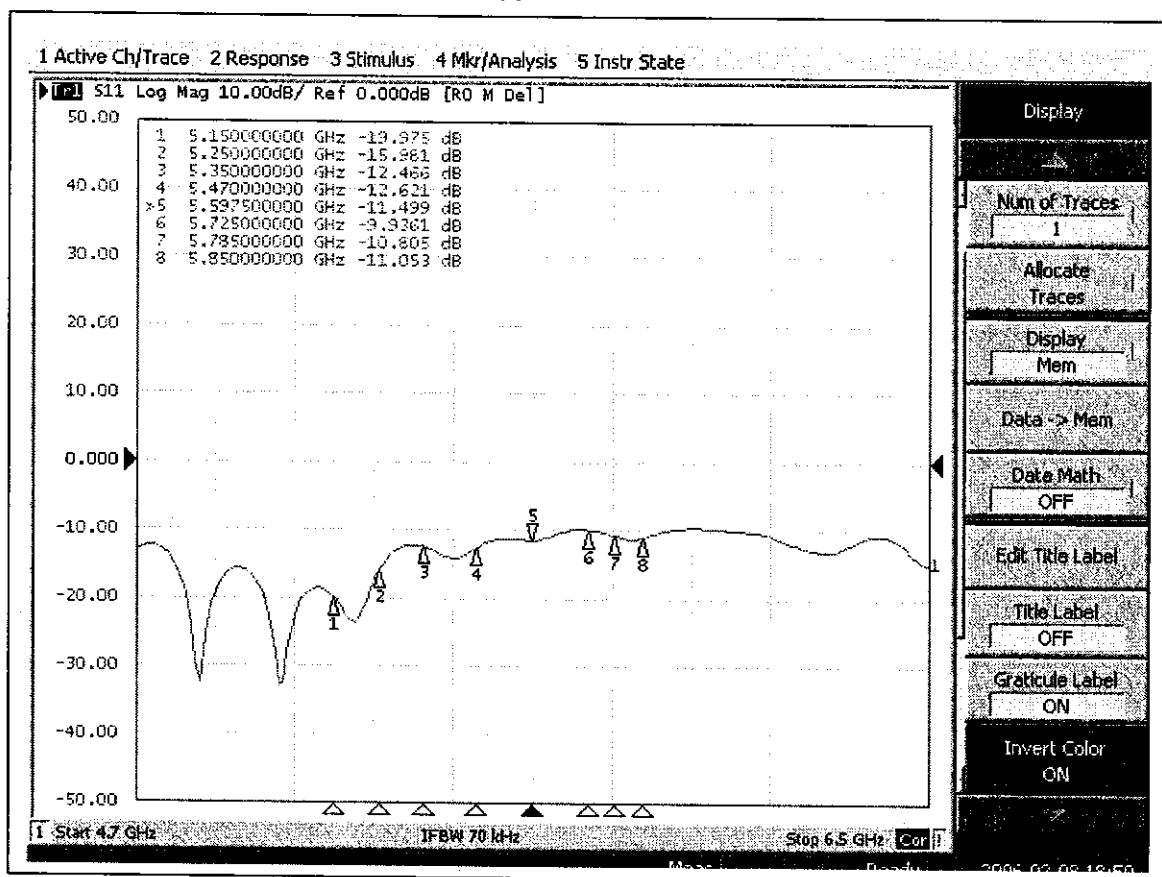


2.4~5.075GHz / VSWR

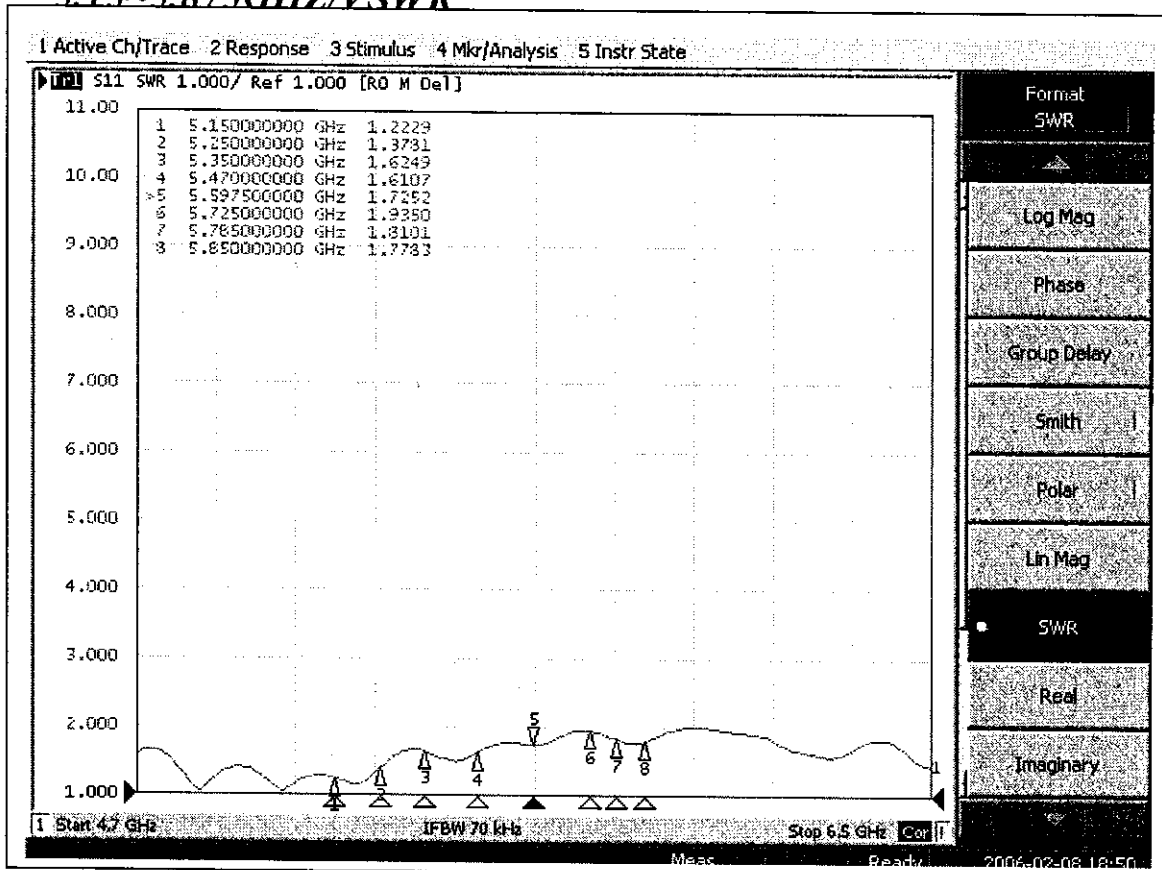


WLAN Ant./ (BACK)

5.15~5.875GHZ/Return Loss

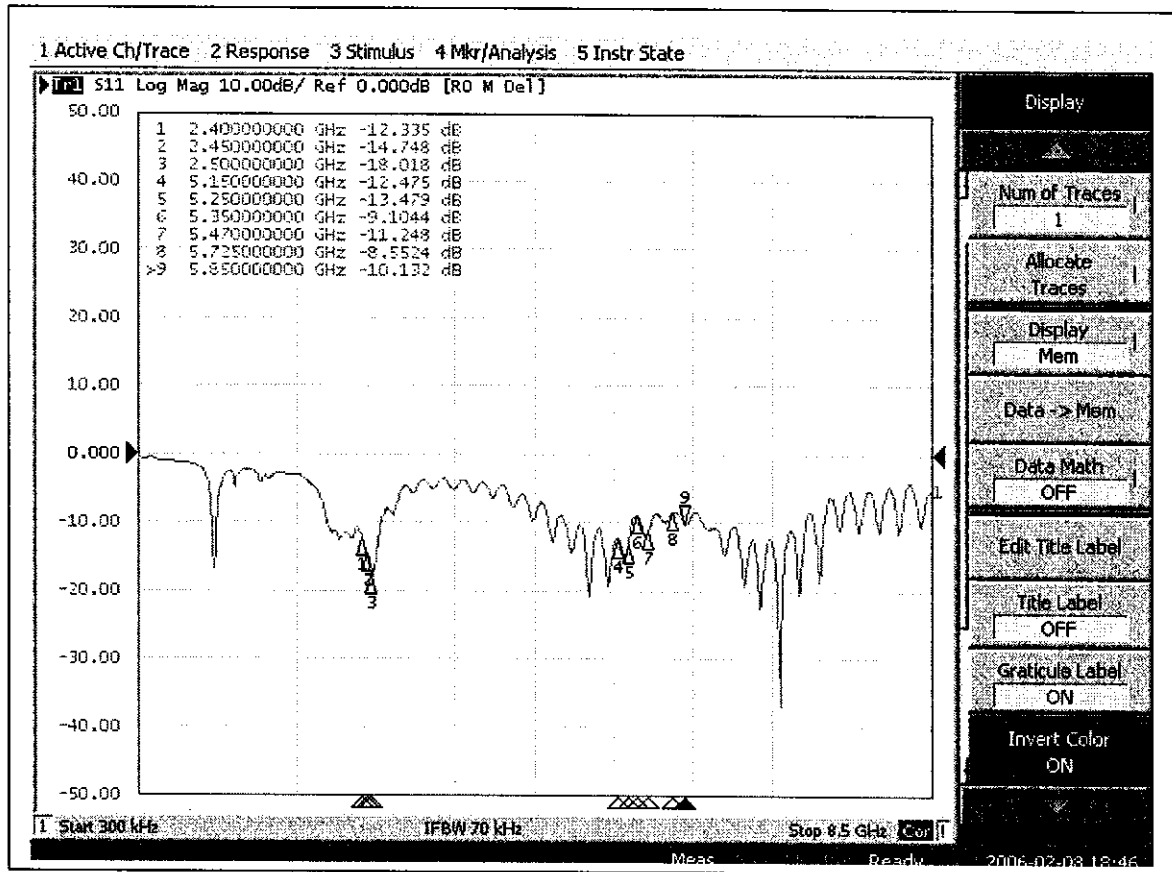


5.15~5.875GHZ/VSWR

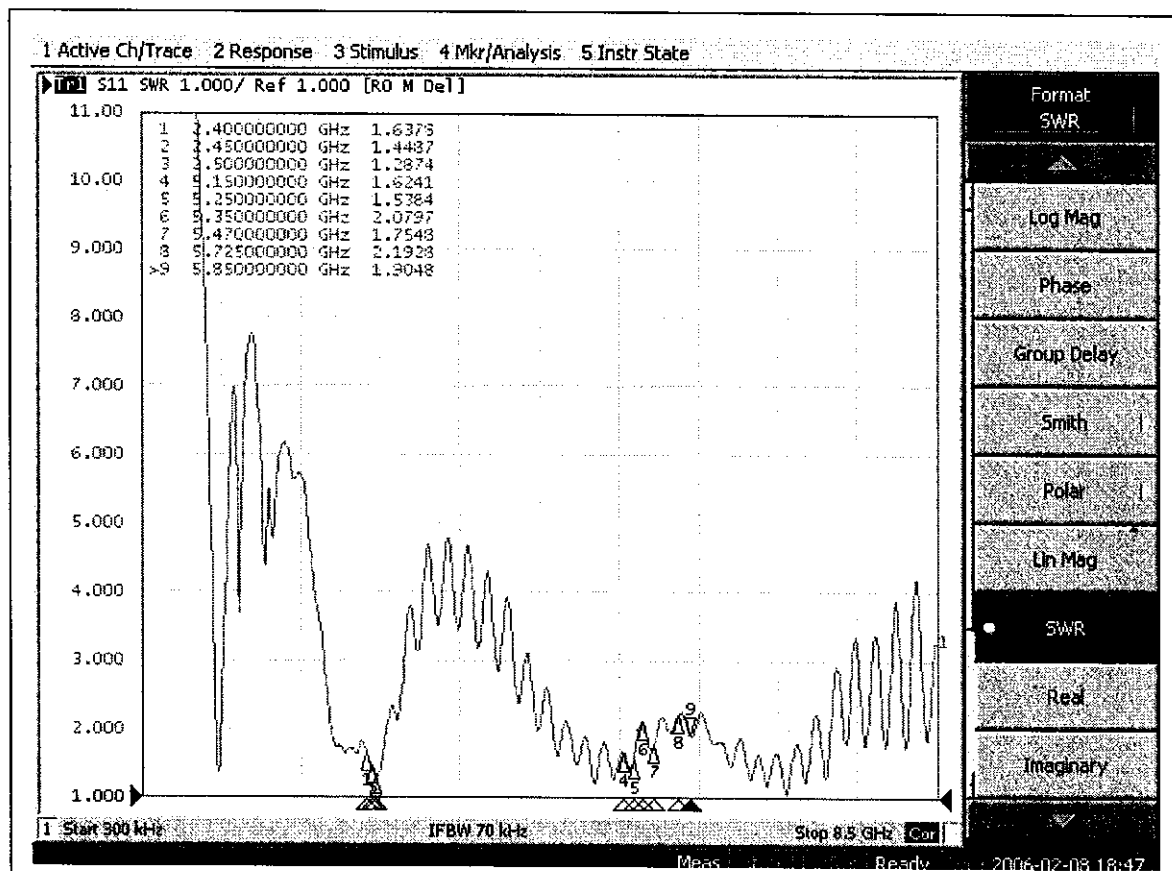


WLAN Ant./ (BACK)

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



2.4~2.5GHZ & 5.15~5.875GHZ/VSWR



5. Gain & Pattern –BACK

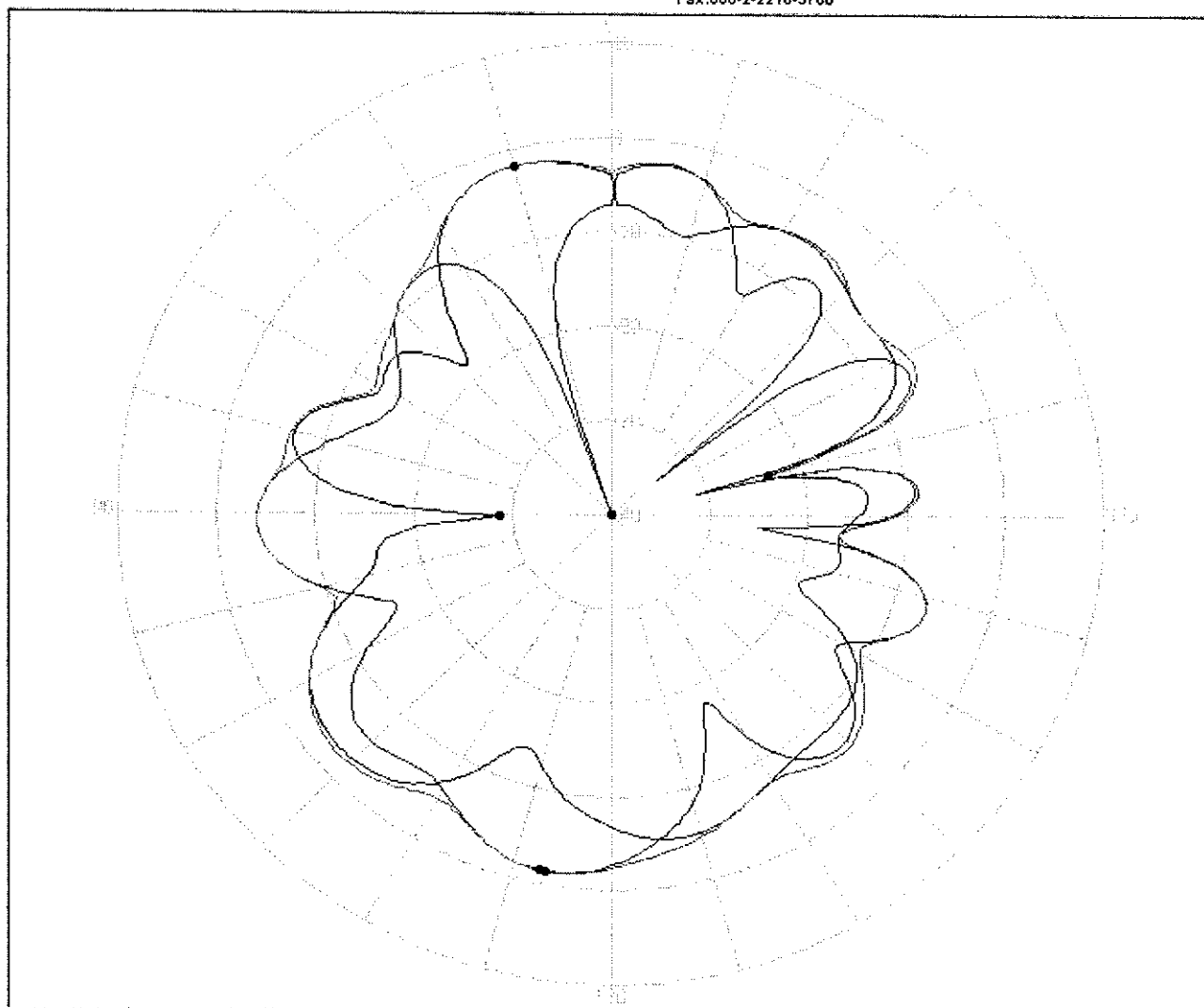
a. 2.4GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	2400.00	-1.83 / 15.00	-28.55 / 91.00	-7.30	Ver.	2006/2/8
2	XPC	後	2400.00	-1.51 / 169.00	-43.01 / 19.00	-7.30	Hor.	2006/2/8
3	XPC	後	2400.00	-1.47 / 170.00	-23.50 / 285.00	-5.20	V+H	2006/2/8

b. 2.45GHz

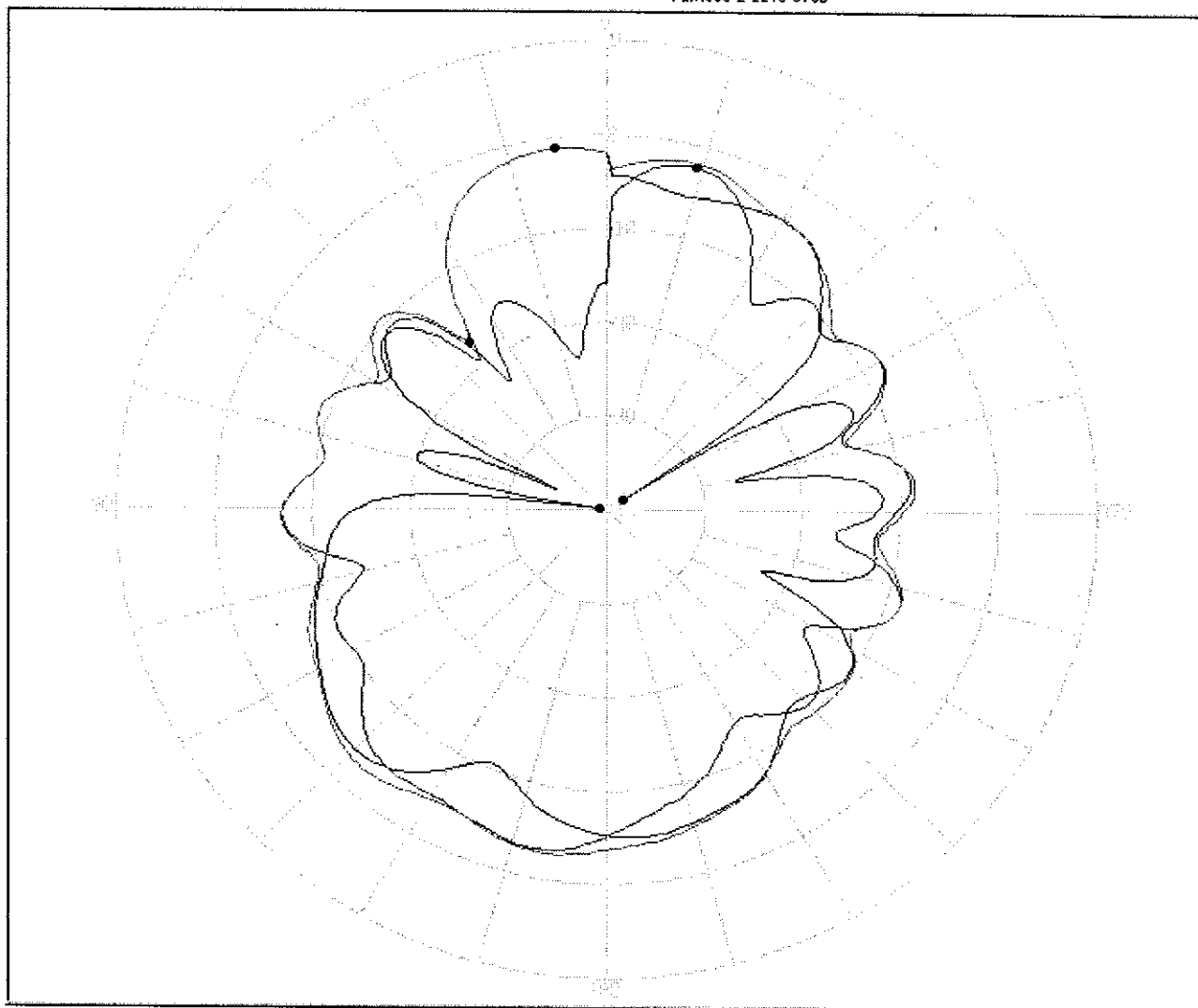


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	2450.00	-1.20 / 8.00	-39.28 / 81.00	-7.21	Ver.	2006/2/8
2	XPC	後	2450.00	-2.45 / 346.00	-37.95 / 303.00	-8.55	Hor.	2006/2/8
3	XPC	後	2450.00	-1.20 / 8.00	-17.46 / 38.00	-5.80	V+H	2006/2/8

c. 2.5GHz

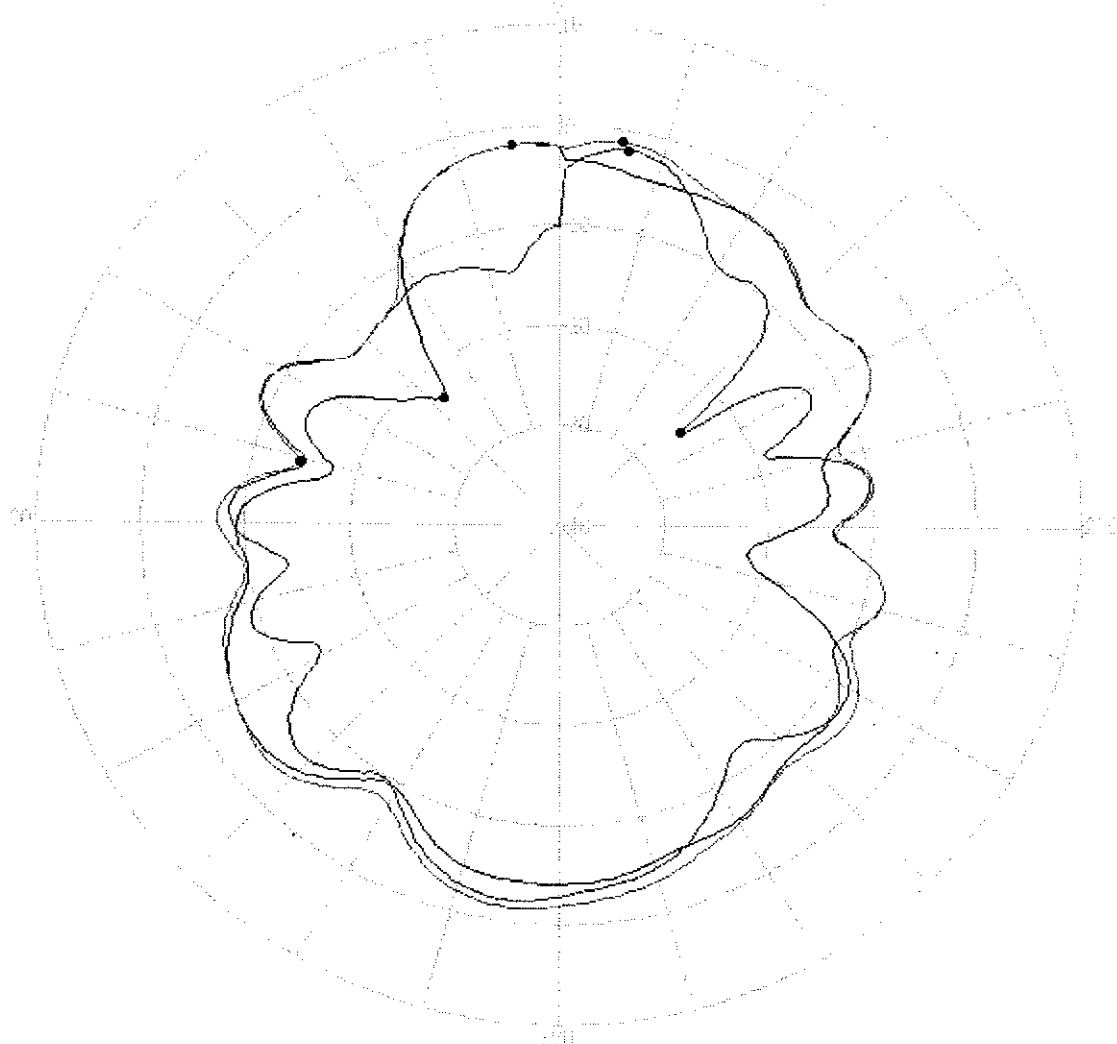


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	2500.00	-1.84 / 7.00	-23.23 / 41.00	-6.71	Ver.	2006/2/8
2	XPC	後	2500.00	-1.99 / 350.00	-25.22 / 309.00	-7.91	Hor.	2006/2/8
3	XPC	後	2500.00	-1.30 / 351.00	-14.60 / 76.00	-5.41	V+H	2006/2/8

d. 4.9GHz

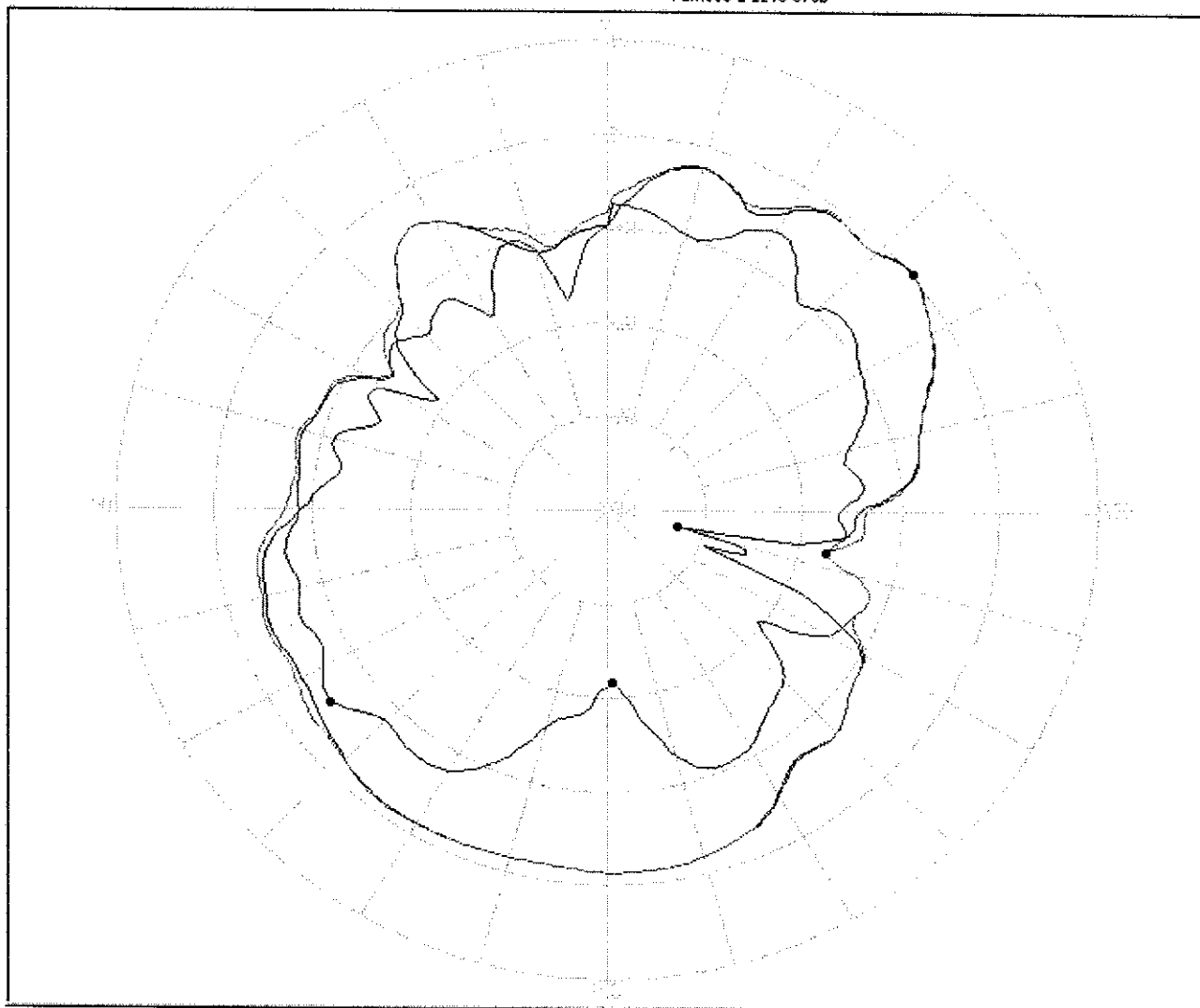


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	4900.00	0.09 / 309.00	-32.67 / 257.00	-4.54	Ver.	2006/2/8
2	XPC	後	4900.00	-5.23 / 126.00	-21.65 / 182.00	-10.12	Hor.	2006/2/8
3	XPC	後	4900.00	0.13 / 309.00	-17.19 / 259.00	-4.23	V+H	2006/2/8

e. 5.075GHz

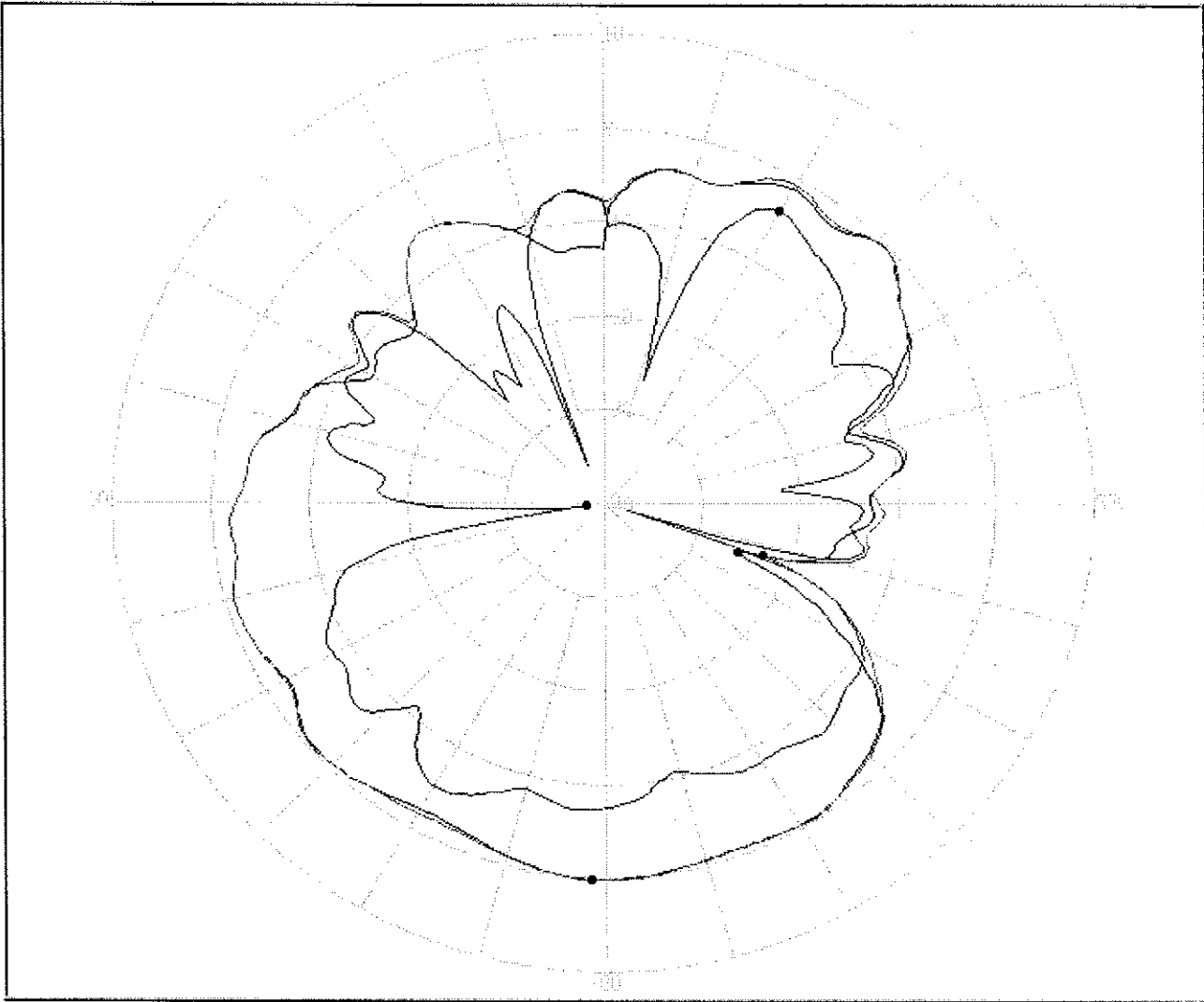


Service for Customer Satisfaction

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Antenna Pattern Measurement

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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	XPC	後	5075.00	0.13 / 178.00	-25.47 / 249.00	-3.48	Ver.	2006/2/8
2	XPC	後	5075.00	-4.07 / 330.00	-38.08 / 98.00	-9.48	Hor.	2006/2/8
3	XPC	後	5075.00	0.20 / 178.00	-22.90 / 251.00	-3.24	V+H	2006/2/8

f. 5.15GHz

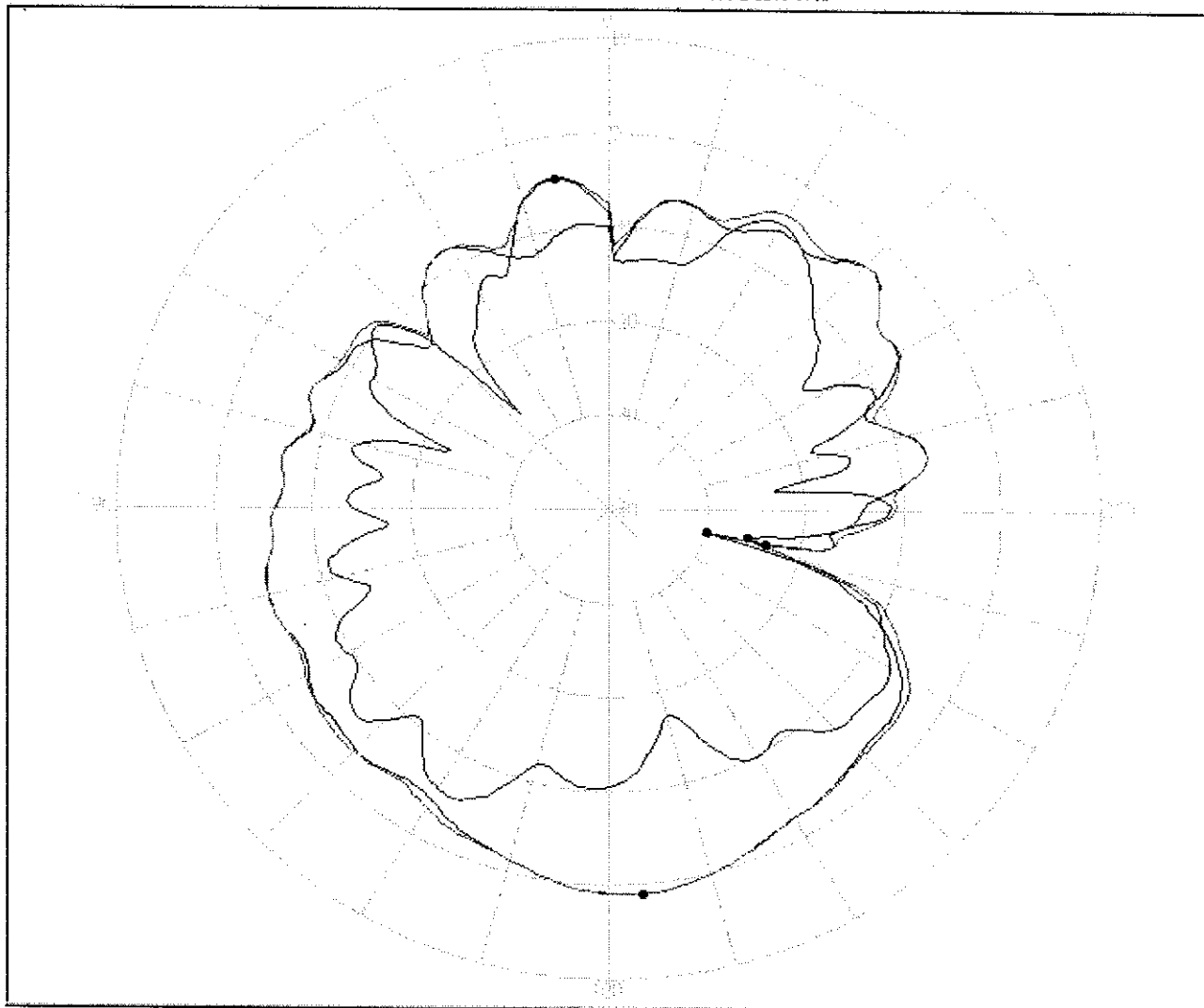


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Fax:886-2-2218-6760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	5150.00	0.96 / 185.00	-25.51 / 258.00	-4.85	Ver.	2006/2/8
2	XPC	後	5150.00	-4.63 / 9.00	-29.86 / 256.00	-10.07	Hor.	2006/2/8
3	XPC	後	5150.00	0.96 / 185.00	-23.67 / 257.00	-4.46	V+H	2006/2/8

g. 5.25GHz

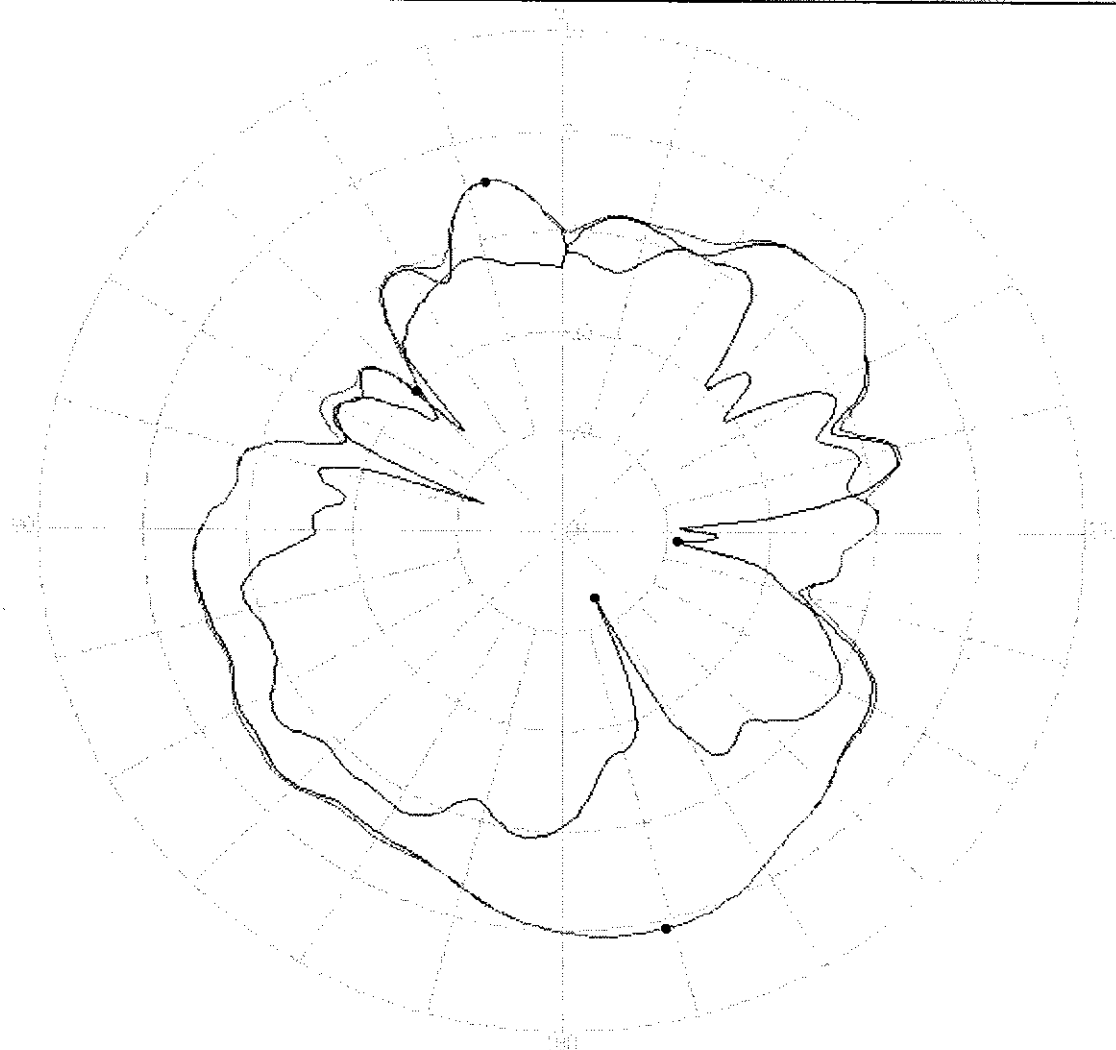


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Fax:886-2-2218-5760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	5250.00	0.80 / 194.00	-28.89 / 265.00	-5.28	Ver.	2006/2/8
2	XPC	後	5250.00	-4.39 / 12.00	-32.72 / 205.00	-10.97	Hor.	2006/2/8
3	XPC	後	5250.00	0.80 / 194.00	-20.39 / 45.00	-4.88	V+H	2006/2/8

H. 5.35GHz

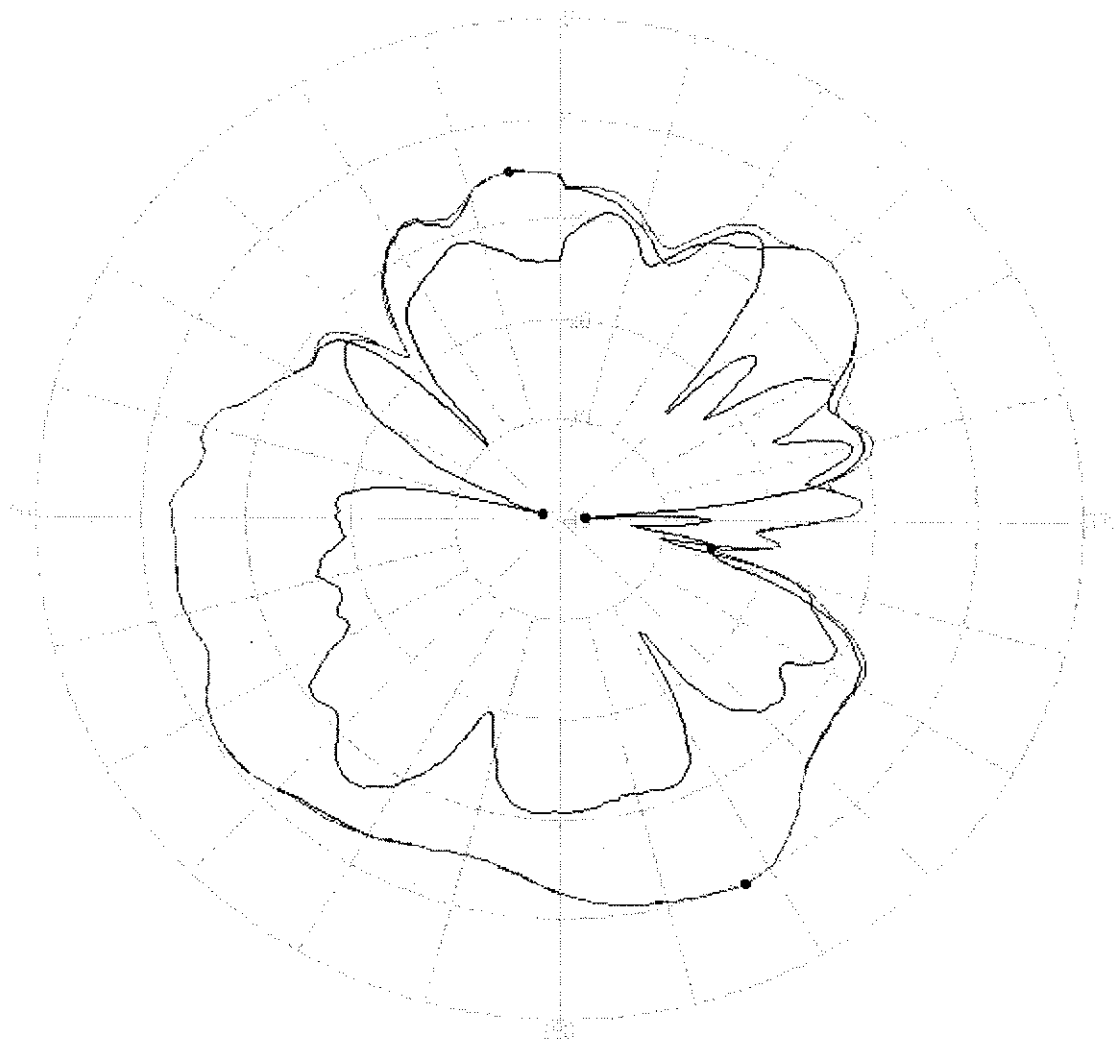


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	5350.00	0.40 / 206.00	-37.58 / 274.00	-5.17	Ver.	2006/2/8
2	XPC	後	5350.00	-5.03 / 8.00	-38.24 / 74.00	-11.39	Hor.	2006/2/8
3	XPC	後	5350.00	0.41 / 206.00	-25.22 / 259.00	-4.75	V+H	2006/2/8

i. 5.47GHz

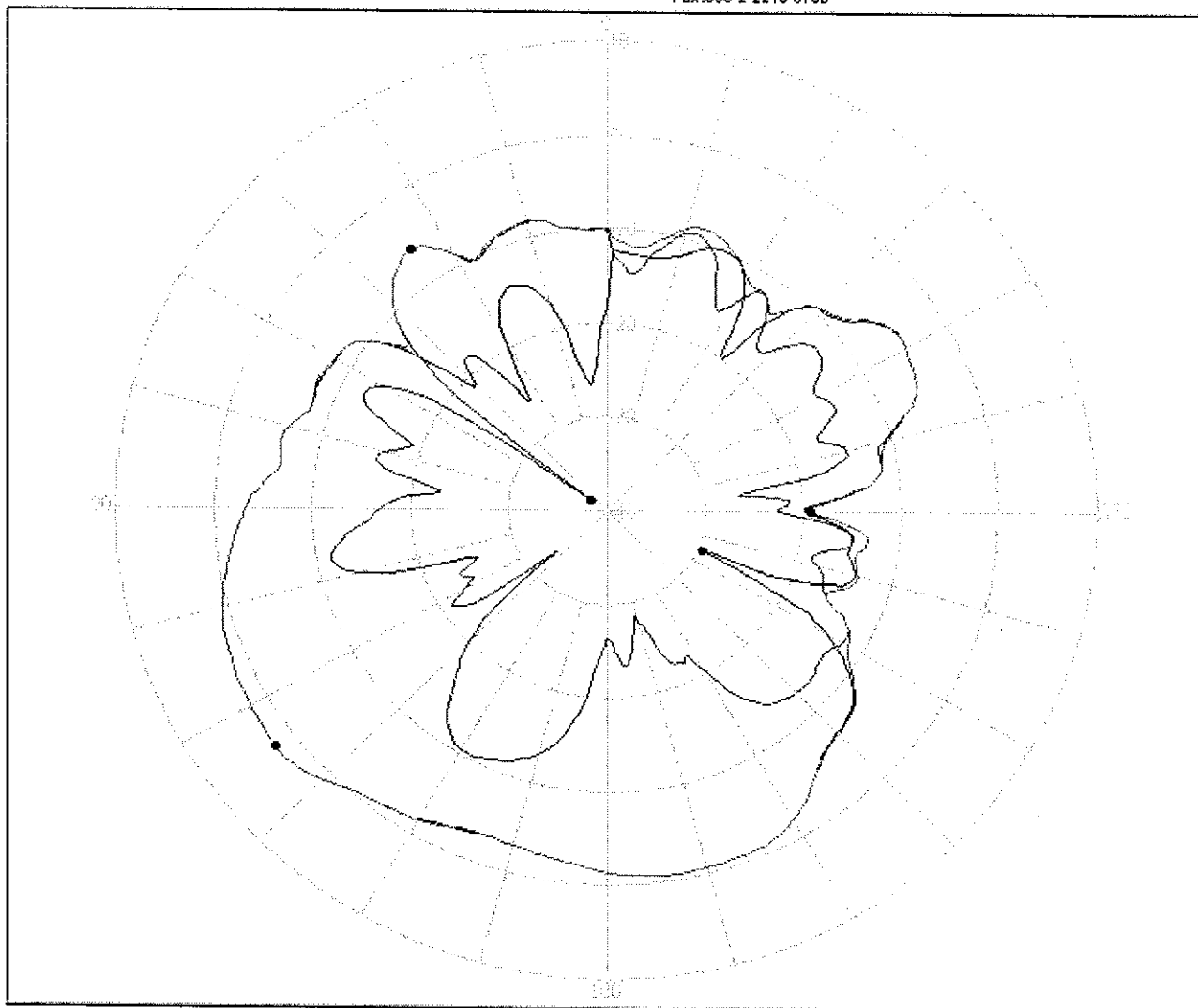


Efficiency for Customer Satisfaction

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Antenna Pattern Measurement

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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	5470.00	2.10 / 127.00	-29.45 / 246.00	-4.24	Ver.	2006/2/8
2	XPC	後	5470.00	-5.90 / 36.00	-38.02 / 54.00	-13.26	Hor.	2006/2/8
3	XPC	後	5470.00	2.10 / 127.00	-19.35 / 270.00	-3.98	V+H	2006/2/8

j. 5.597GHz

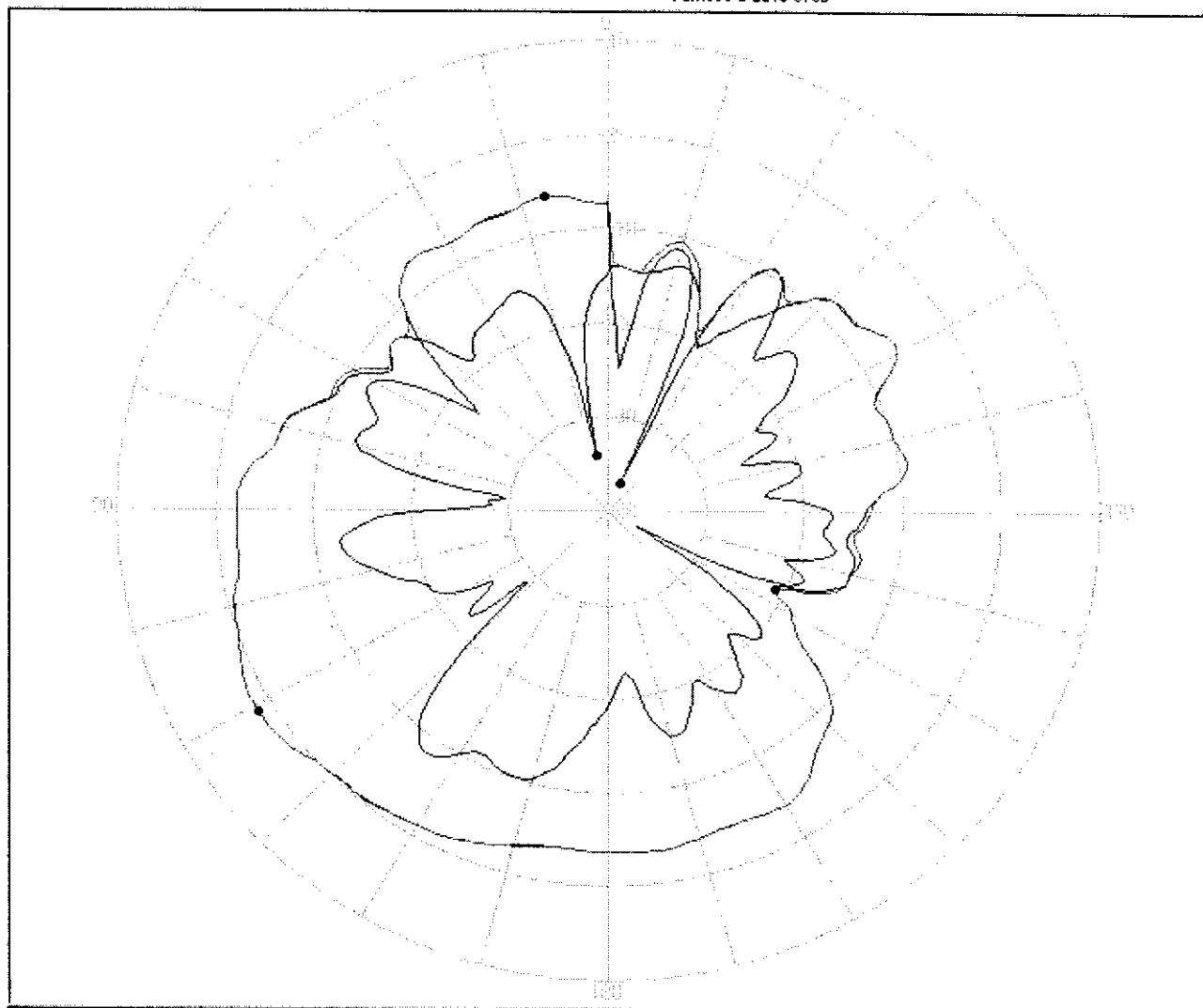


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	5597.50	1.56 / 121.00	-33.95 / 11.00	-5.15	Ver.	2006/2/8
2	XPC	後	5597.50	-6.09 / 11.00	-36.82 / 336.00	-12.95	Hor.	2006/2/8
3	XPC	後	5597.50	1.56 / 121.00	-21.11 / 244.00	-4.77	V+H	2006/2/8

k. 5.725GHz

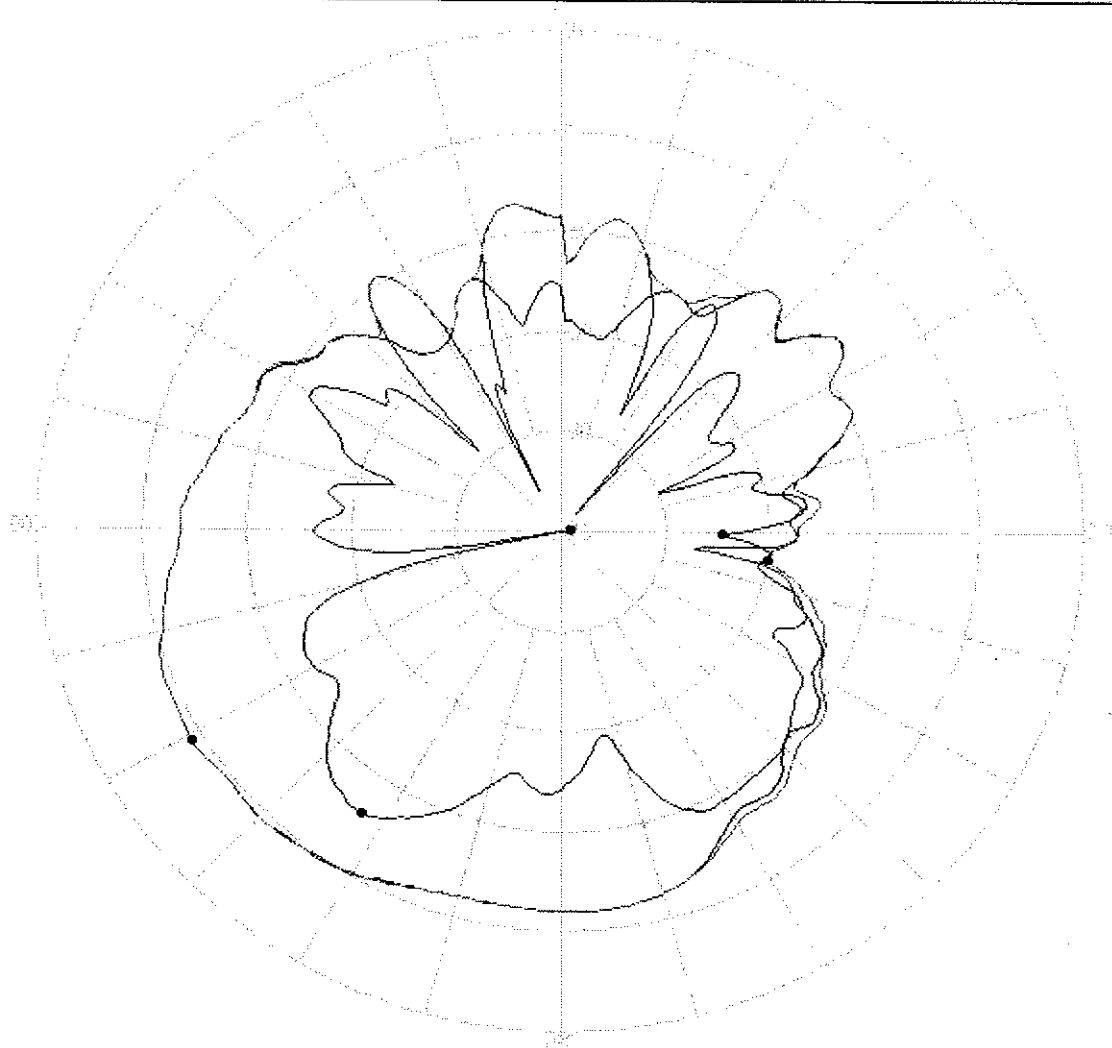


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Fax:886-2-2218-5760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	5725.00	1.00 / 121.00	-24.67 / 269.00	-4.99	Ver.	2006/2/8
2	XPC	後	5725.00	-5.91 / 146.00	-40.85 / 101.00	-12.65	Hor.	2006/2/8
3	XPC	後	5725.00	1.01 / 121.00	-20.06 / 262.00	-4.74	V+H	2006/2/8

1. 5.785GHz

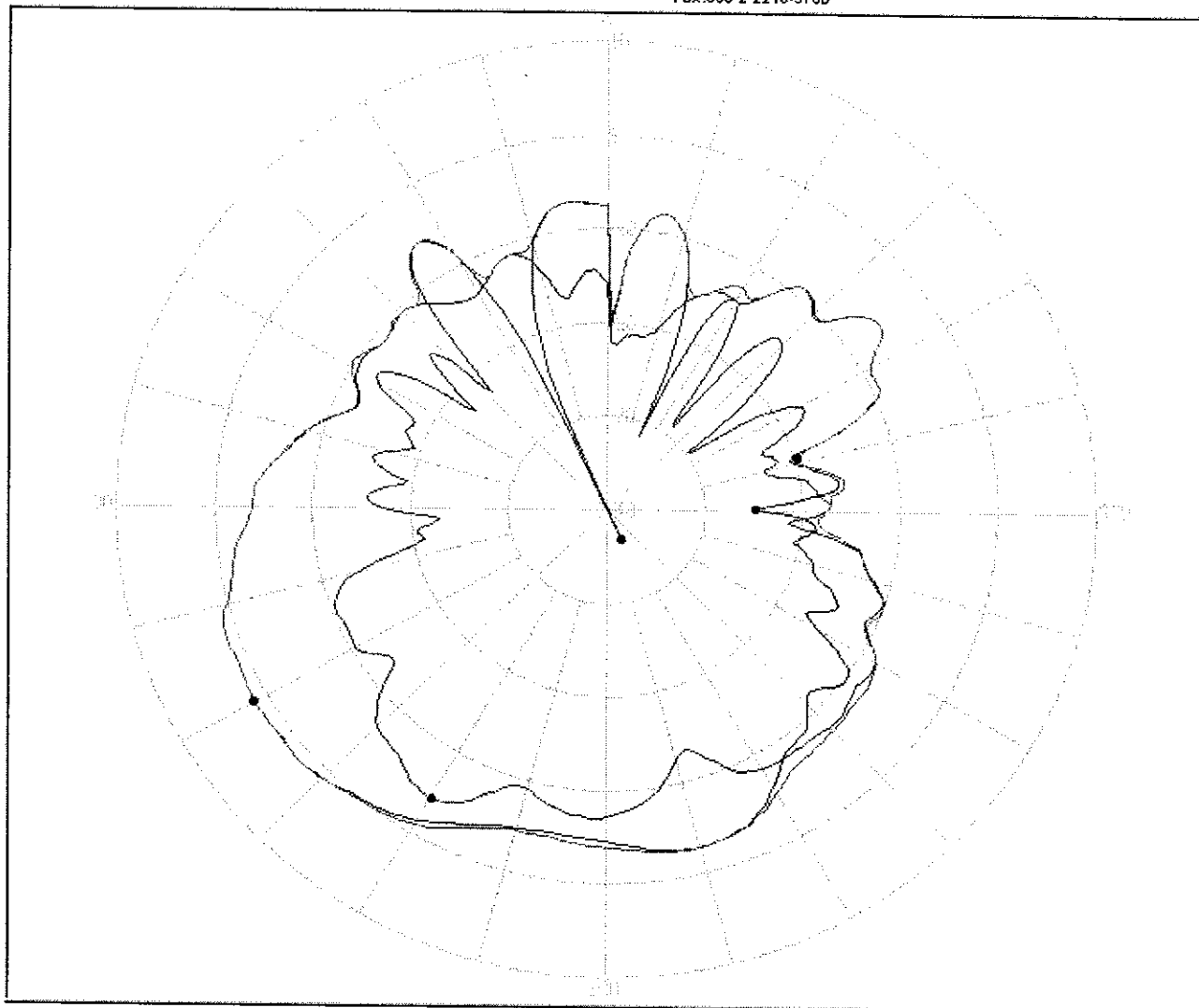


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	5785.00	1.36 / 120.00	-24.75 / 271.00	-5.29	Ver.	2006/2/8
2	XPC	後	5785.00	-4.31 / 150.00	-43.40 / 24.00	-10.55	Hor.	2006/2/8
3	XPC	後	5785.00	1.37 / 120.00	-19.71 / 286.00	-4.80	V+H	2006/2/8

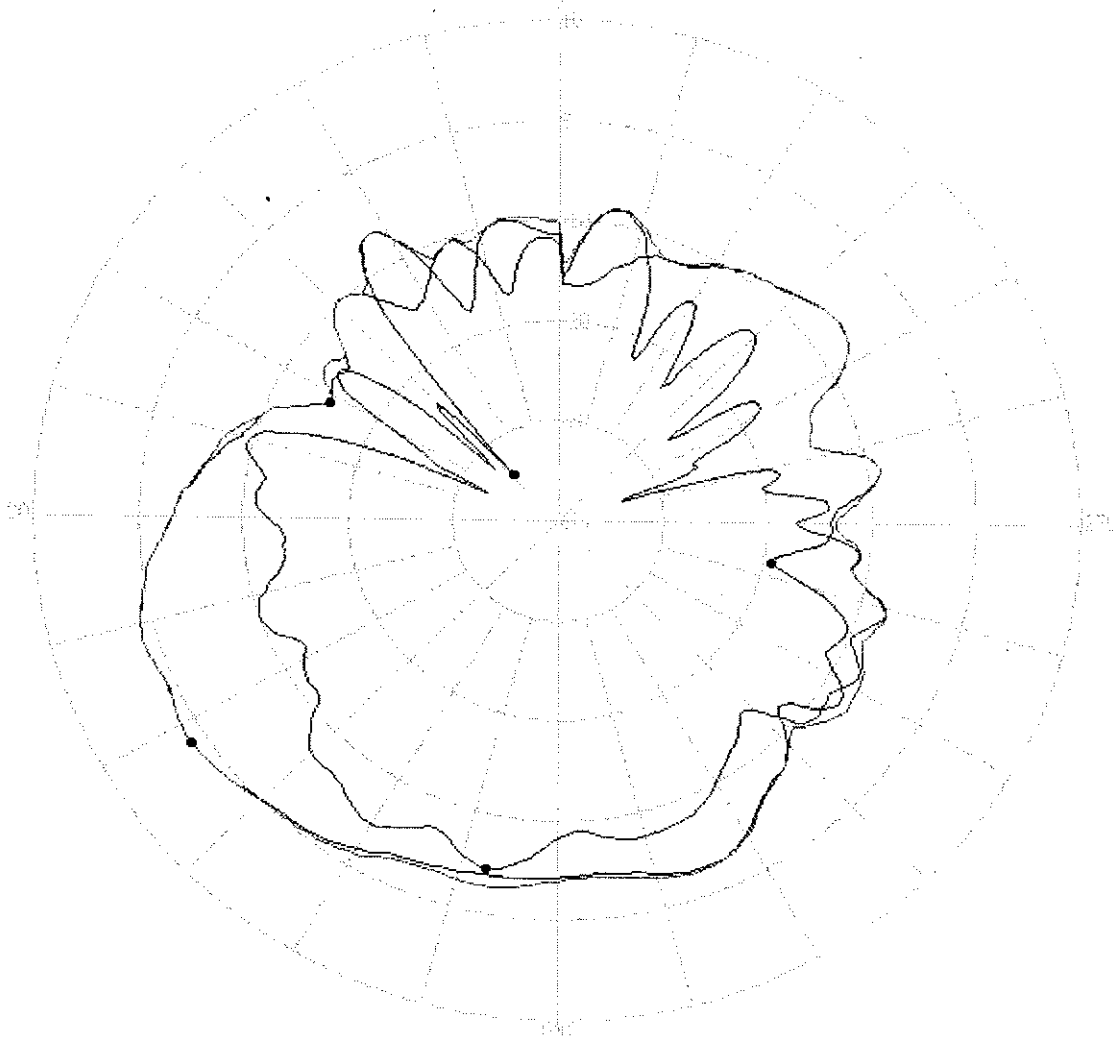
m. 5.85GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	5850.00	1.42 / 123.00	-19.28 / 259.00	-5.04	Ver.	2006/2/8
2	XPC	後	5850.00	-4.64 / 169.00	-33.79 / 43.00	-10.20	Hor.	2006/2/8
3	XPC	後	5850.00	1.43 / 123.00	-15.34 / 62.00	-4.63	V+H	2006/2/8

n. 5.875GHz

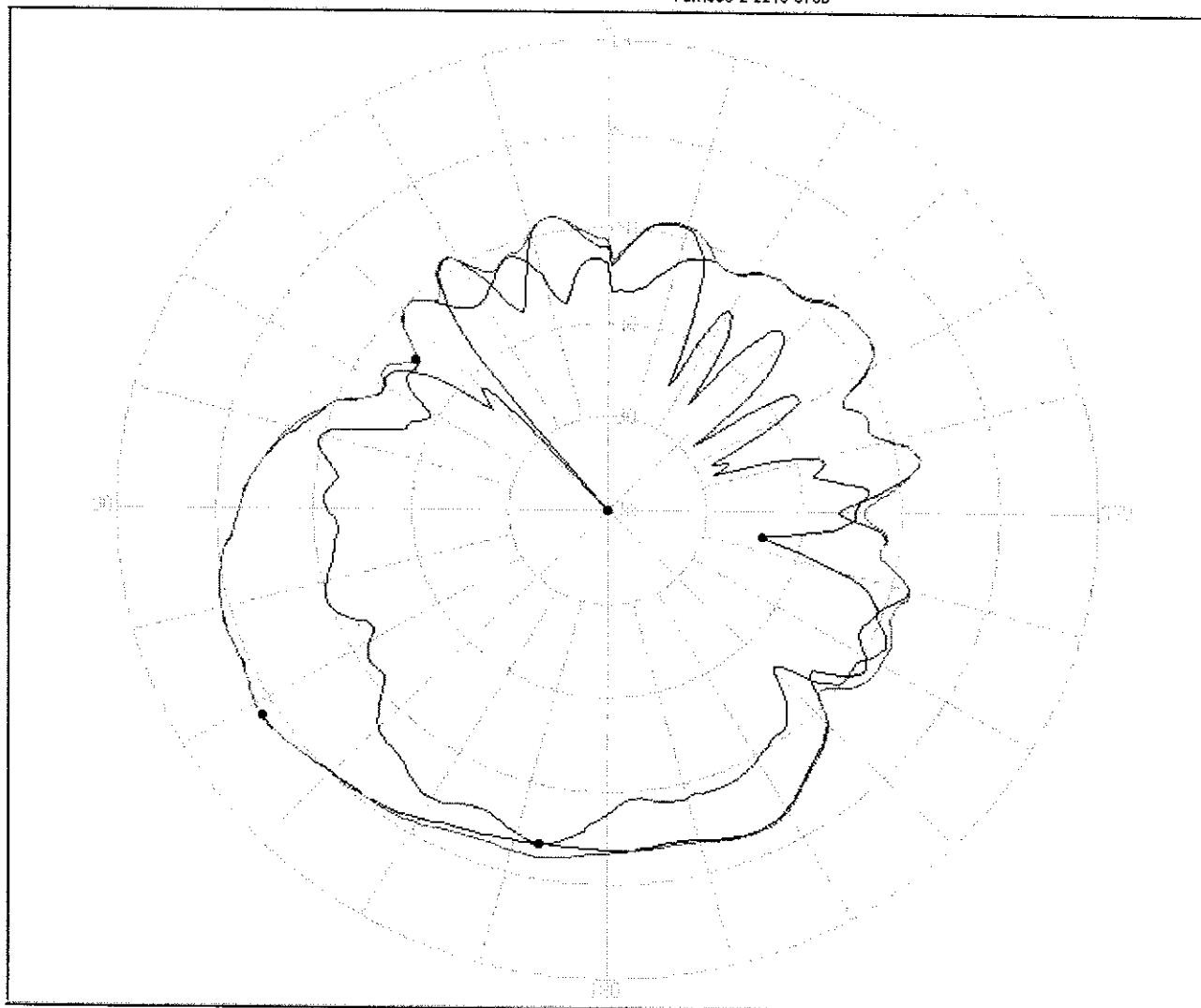


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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XPC	後	5875.00	1.54 / 122.00	-24.00 / 260.00	-4.97	Ver.	2006/2/8
2	XPC	後	5875.00	-3.88 / 169.00	-45.93 / 41.00	-10.10	Hor.	2006/2/8
3	XPC	後	5875.00	1.55 / 122.00	-14.80 / 51.00	-4.56	V+H	2006/2/8