

FreeWings Antenna Specifications

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1 Antenna Gain

Frequency	=2450MHz
Antenna Gain	=0.54dBi

2 Antenna Pattern

Figure 3. Radiation pattern of H-plane at co-polarization

Figure 4. Radiation pattern of H-plane at cross-polarization

Figure 5. Radiation pattern of E1-plane at co-polarization

Figure 6. Radiation pattern of E1-plane at cross-polarization

Figure 7. Radiation pattern of E2-plane at co-polarization

Figure 8. Radiation pattern of E2-plane at cross-polarization

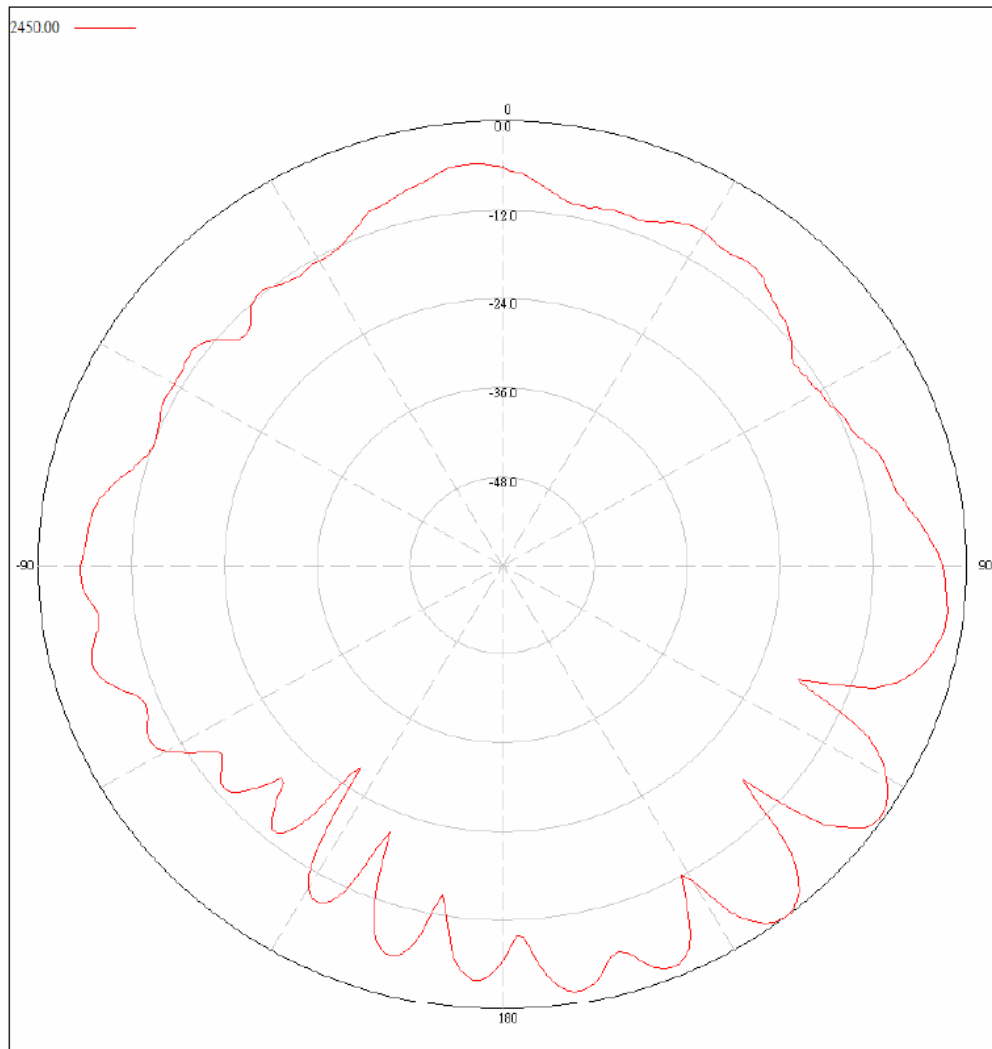
3 Test Equipment Used

11m × 6m × 6m Full Anechoic Chamber Test Site					
Equipment Type	MFR	Module Number	Serial Number	Last CAL.	CAL DUE
Network Analyzer	Agilent	8714ET	US41442815	07/06/2004	07/05/2005
Full Anechoic Chamber	TDK	N/A	N/A	05/14/2004	05/13/2006

Figure3

SGS Taiwan Limited Network Analyzer Testing Report

DATE: 2005-11-14 11:16
 CLIENT:
 EUT: BT
 OPERATOR:
 FileName: c:\Documents and Settings\willis_chen\My Documents\antenna\SGS上海\H-H.csv



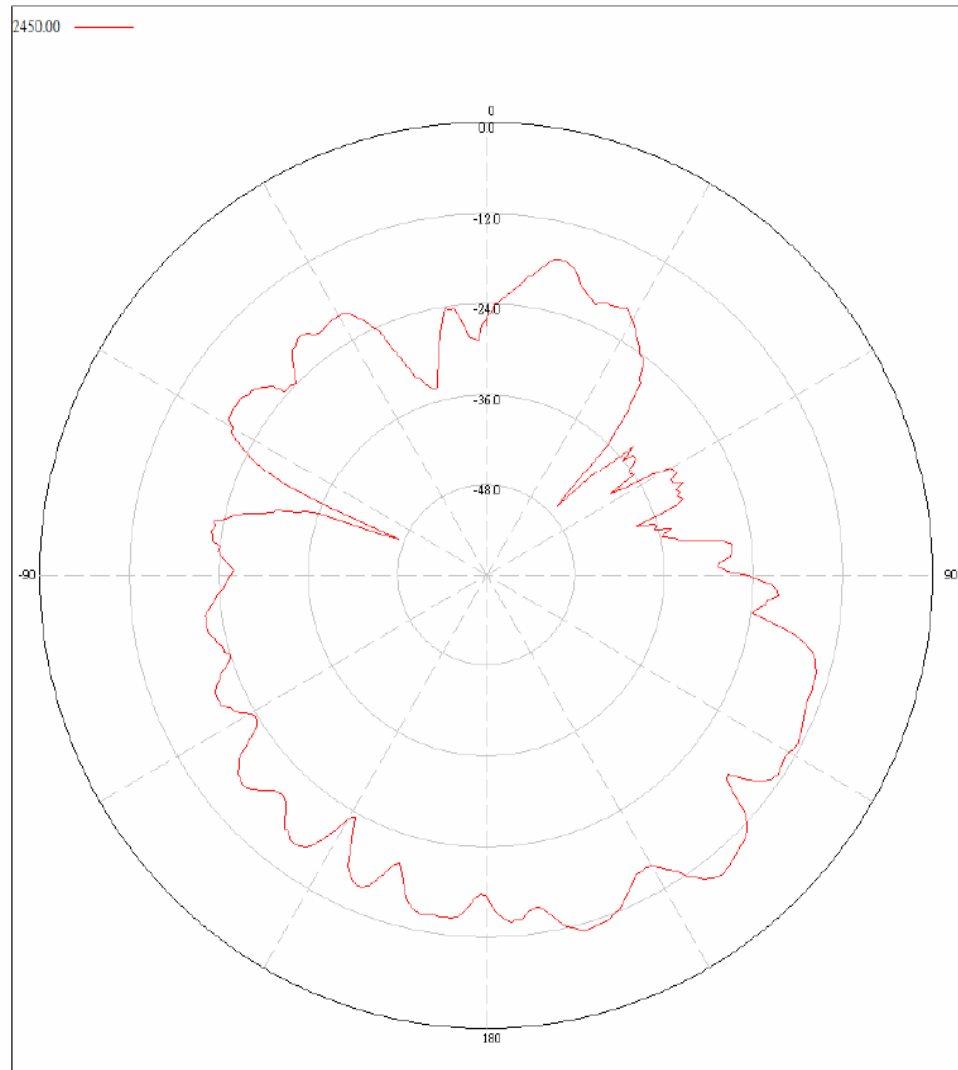
MEMO: memoa
 memob
 memoc

Frequency 2450.0 2600.0
 Max. -0.20 -4.87
 Max. Angle 142.0 359.0
 Avr. -6.92 -12.12

Figure4

SGS Taiwan Limited Network Analyzer Testing Report

DATE: 0000-00-00 00:00
 CLIENT:
 EUT:
 OPERATOR:
 FileName:



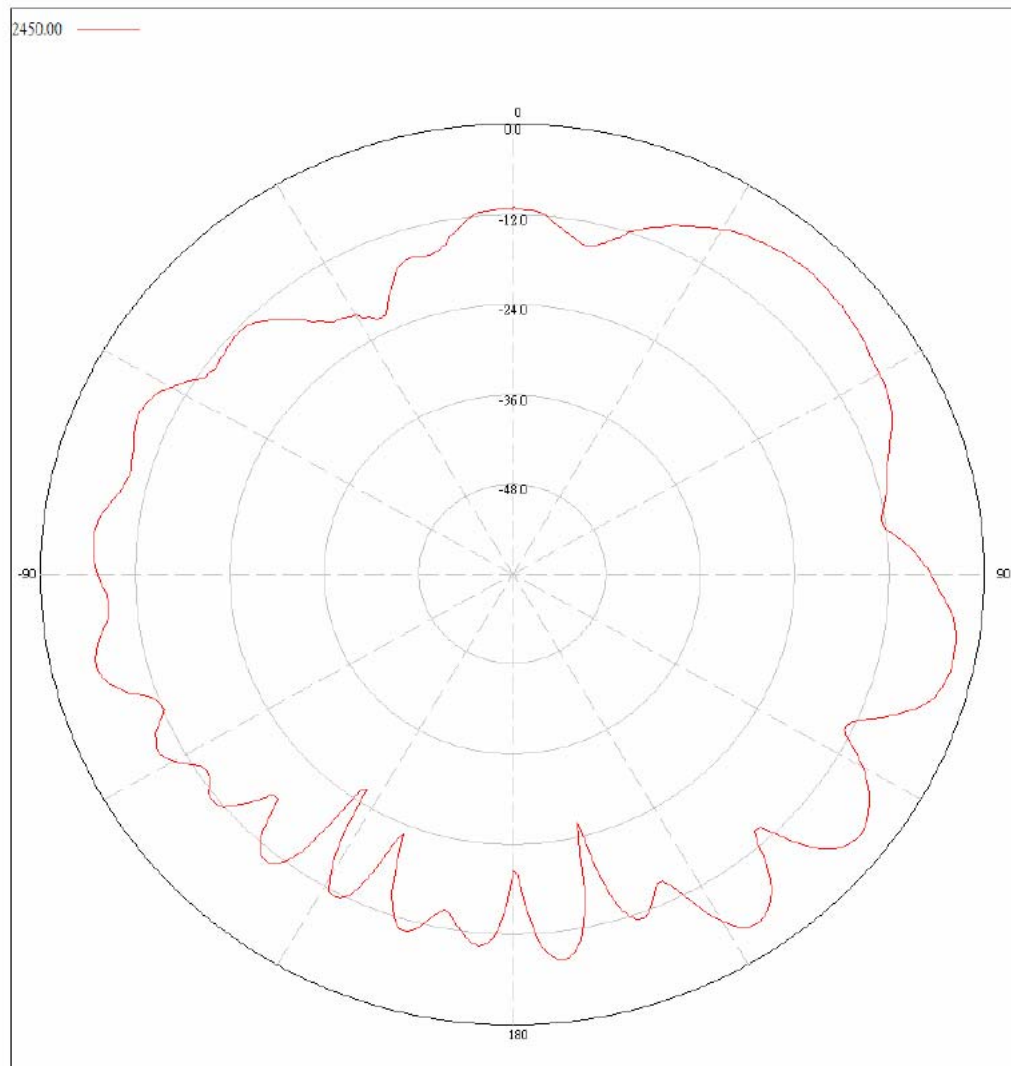
MEMO: memoa
 memob
 memoc

Frequency	2450.0	2600.0
Max.	-9.35	-25.03
Max. Angle	141.0	0.0
Avr.	-17.78	-25.16

Figure5

SGS Taiwan Limited Network Analyzer Testing Report

DATE: 0000-00-00 00:00
 CLIENT:
 EUT:
 OPERATOR:
 FileName:



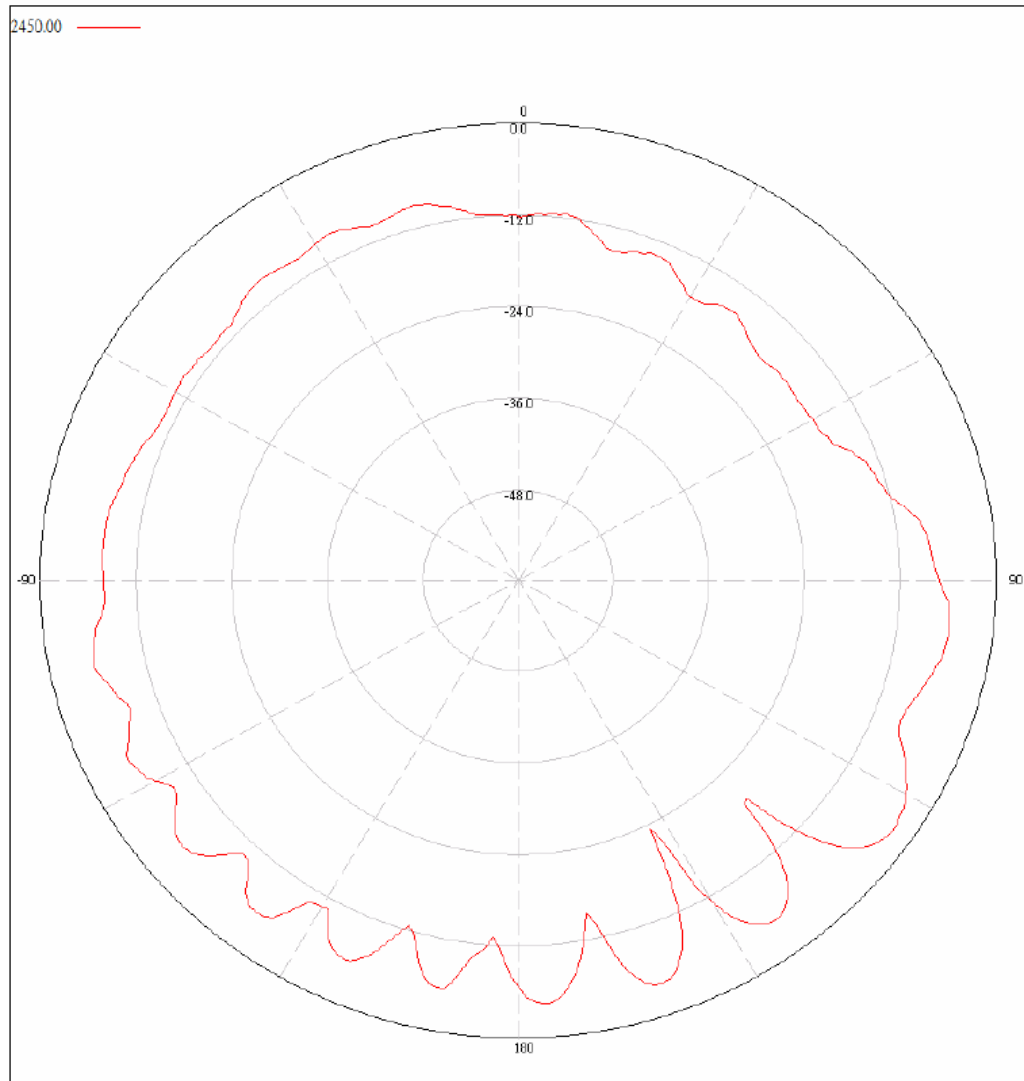
MEMO: memoa
 memob
 memoc

Frequency	2450.0	2600.0
Max.	-2.93	-9.64
Max. Angle	101.0	0.0
Avr.	-8.81	-9.80

Figure6

SGS Taiwan Limited Network Analyzer Testing Report

DATE: 2005-11-14 10:57
 CLIENT:
 EUT: BT
 OPERATOR:
 FileName: c:\Documents and Settings\willis_chen\My Documents\antenna\SGS上海\E1-V.csv



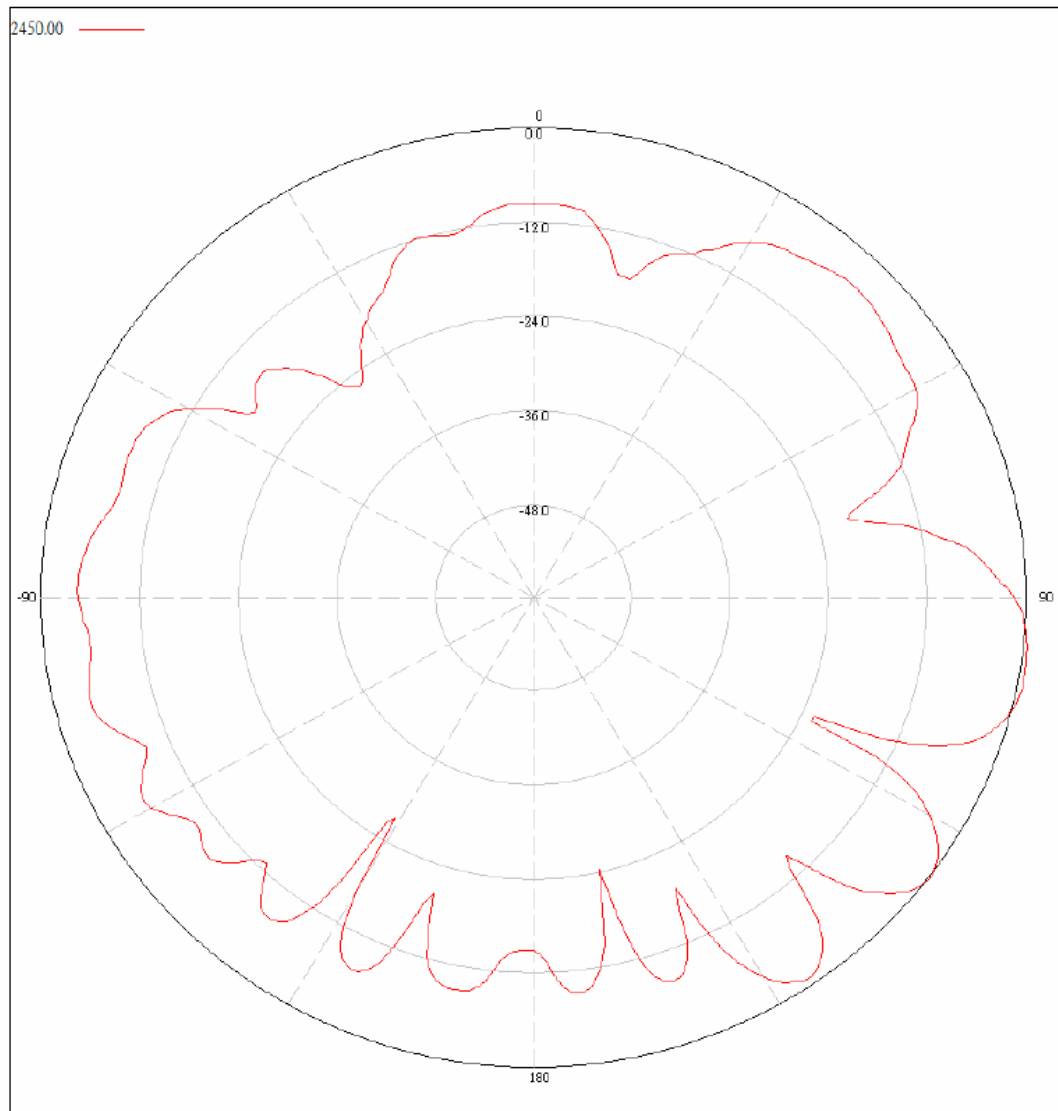
MEMO: memoa
 memob
 memoc

Frequency	2450.0	2600.0
Max.	-2.87	-8.72
Max. Angle	125.0	187.0
Avr.	-8.60	-11.59

Figure7

SGS Taiwan Limited Network Analyzer Testing Report

DATE: 2005-11-14 11:05
 CLIENT:
 EUT: BT
 OPERATOR:
 FileName: c:\Documents and Settings\willis_chen\My Documents\antenna\SGS上海\E2-H.csv



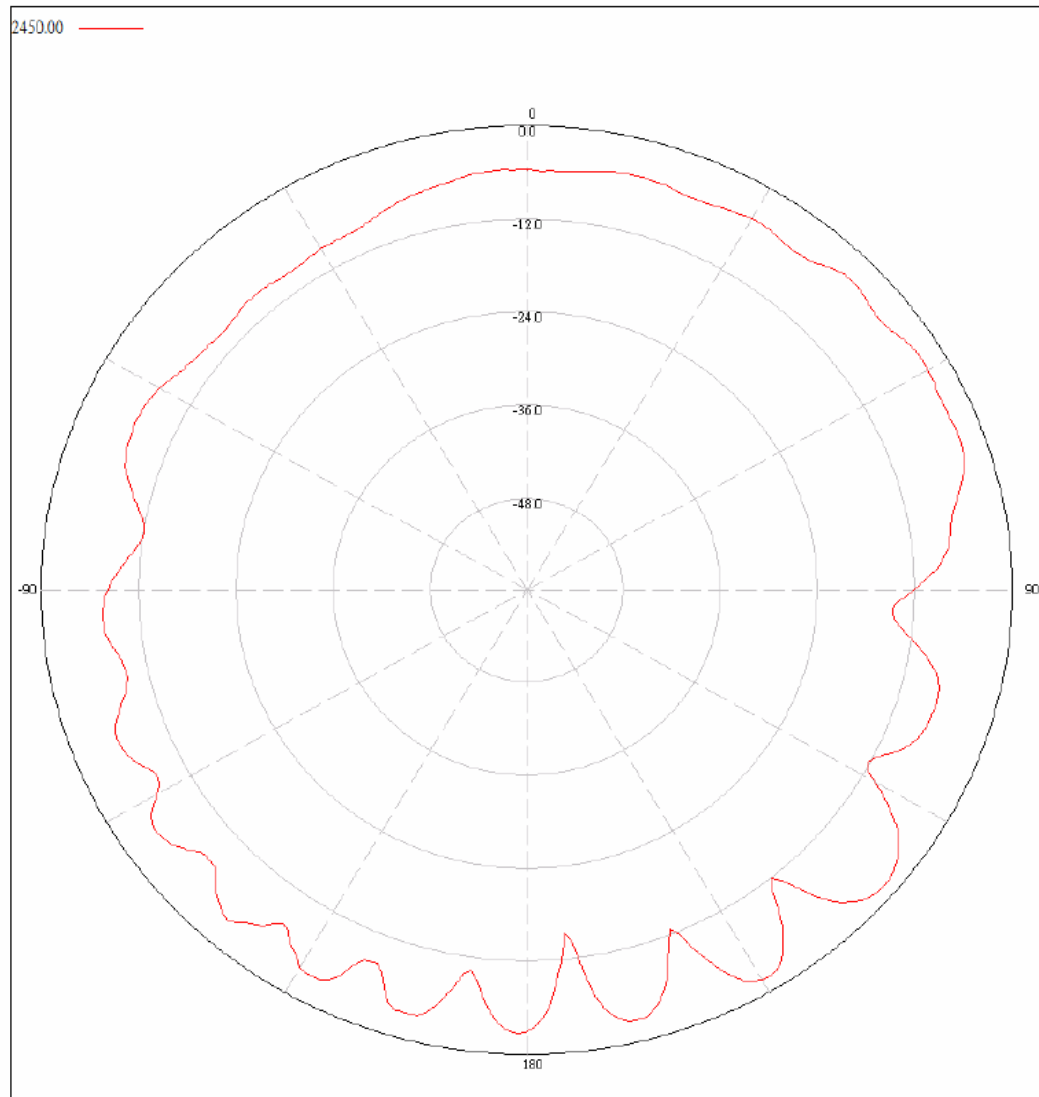
MEMO: memoa
 memob
 memoc

Frequency 2450.0 2600.0
 Max. 0.54 -10.56
 Max. Angle 100.0 359.0
 Avr. -6.80 -10.57

Figure8

SGS Taiwan Limited Network Analyzer Testing Report

DATE: 2005-11-14 10:56
 CLIENT:
 EUT: BT
 OPERATOR:
 FileName:



MEMO: memoa
 memob
 memoc

Frequency 2450.0 2600.0
 Max. -1.80 -4.40
 Max. Angle 130.0 214.0
 Avr. -6.02 -7.39