

Test Report

Product Name: Omnidirectional

Project Item: Normal Temperature Electrical Test

Test Date: Aug.1 ,2008

Measurement Report

Sample Name	<u>Omnidirectional</u>		
Sample Number	1		
Test Date	Aug. 1, 2008		
Test Surrounding	Temperature: (25~28) °C	Relative Humidity: 54%~72%	Atmospheric Pressure.: 101.3kPa
Test Item	Normal Temperature Electrical Specification: Frequency Range, VSWR, Pattern, Gain, HPBW, Electrical Downtilt, Front to Back Ratio		
Test Standard	GB9410-88 Technical Criterion of Mobile Communication Antenna YD/T1059-2004 Technical Qualification of Mobile Communication System Station Antenna		
Main Apparatus for Antenna Measurement	E8363B Vector Network Analyzer; HD-22HA15.5N Standard Horn Antenna E8257D Analog Signals Emitter		
Test Survey	Basing on the test standard, we test the performance of the 8dBi Omnidirectional antenna under normal temperature, the result conform to the standard. Please turn to page 2-10 to check the report.		
Conclusion	All Test Items can fulfill the Specification.		
Note			

Normal Temperature Electrical Specification Test Results

Sample Serial Number: 1#

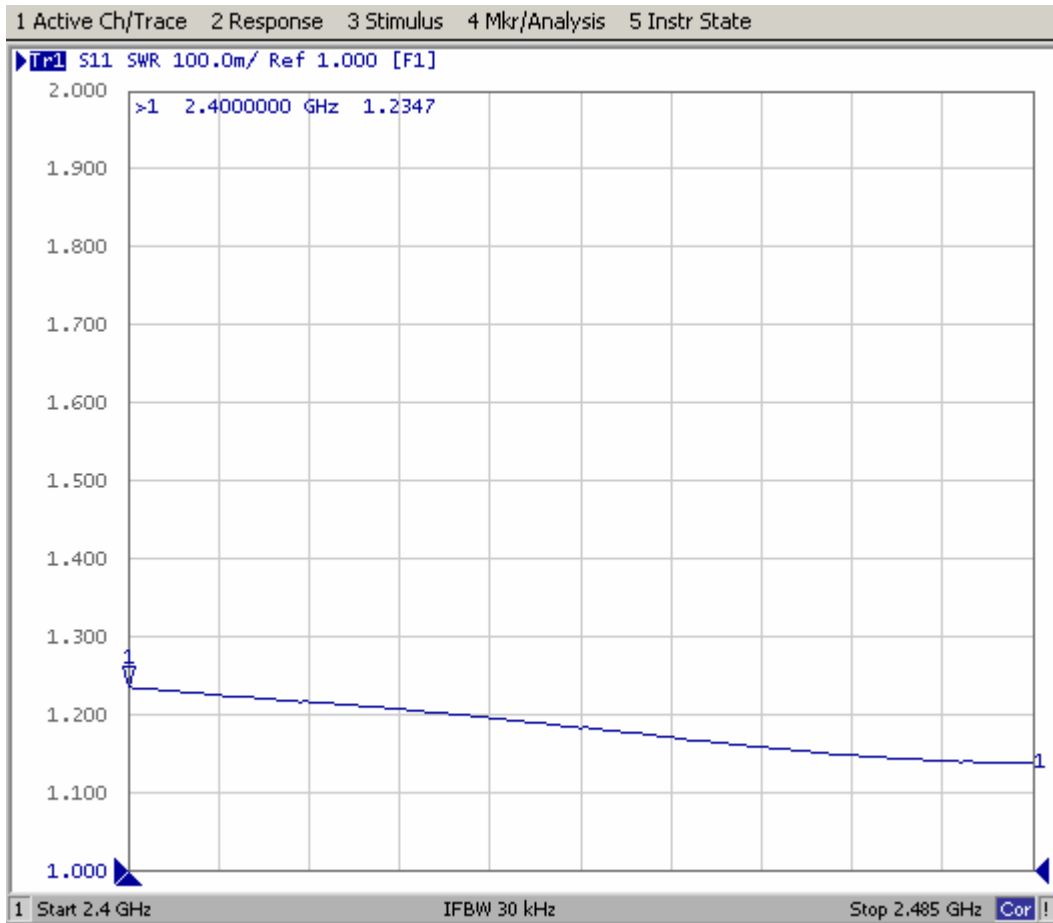
Specification:

Sequence Number	Test Item	Units	Specification	Test results	Judgment
1	Frequency Range	MHz	2400-2485	2400-2485	Pass
2	Gain	dBi	8 ± 0.5	8 ± 0.2	Pass
3	Horizontal Beamwidth	°	360	360	Pass
4	Vertical Beamwidth	°	16	15-17	Pass
5	VSWR	/	≤ 1.5	≤ 1.24	Pass
6	F/B Ratio	dB	/	/	/
7	XPD	dB	/	/	/
8	Up Side Lobe Level	dB	/	/	/
9	Zero Fill	dB	/	/	/
10	Electrical Downtilt	°	/	/	/
11	Port-to-Port Isolation	/	/	/	/
12	Polarization Type	/	Vertical	Vertical	Pass
13	H-Plan Pattern	/	/	Look up Chart4-6	/
14	V-Plan Pattern	/	/	Look up Chart1-3	/

Conclusion: Every Item of Normal Temperature Electrical Specification Test is OK.

VSWR Test Data Chart

Sample Serial Number: 1 #



E-Plan Pattern

Sample Serial Number: 1#

Frequency: 2400MHz

Vertical (3dB) Beamwidth: 16.8°

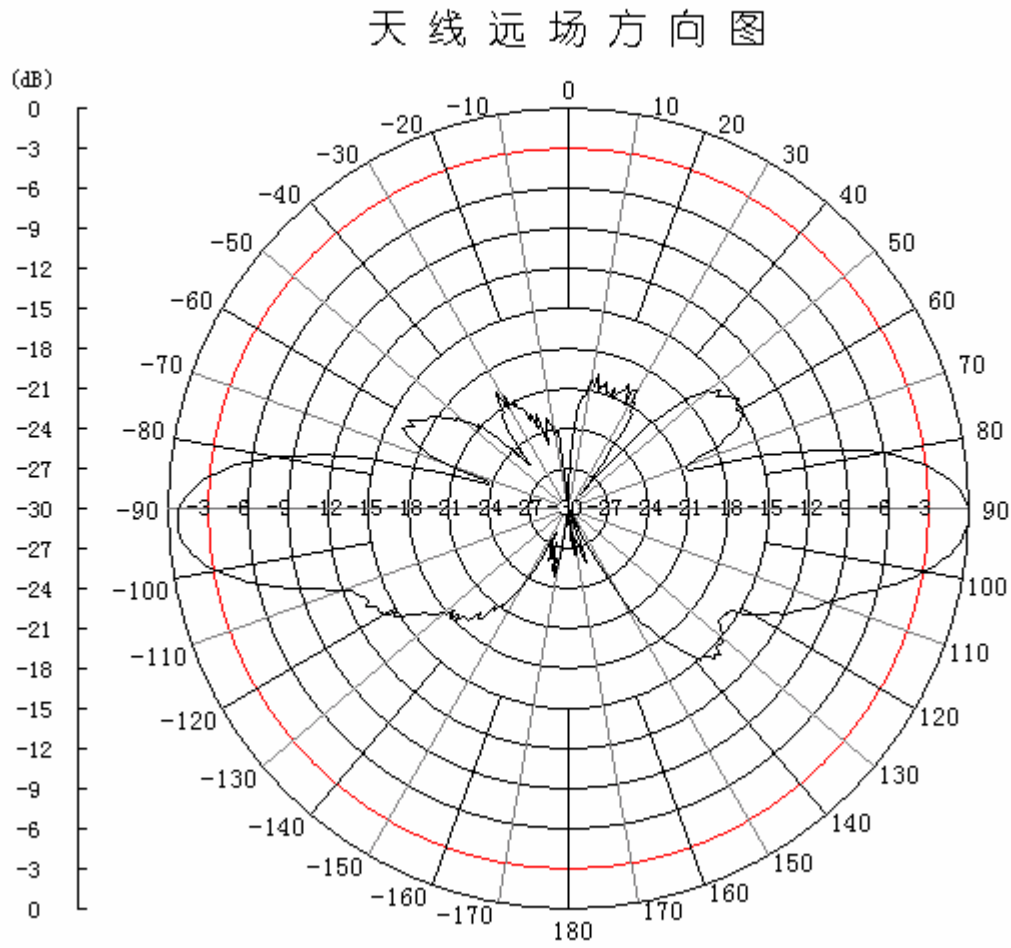


Chart 1

E-Plan Pattern

Sample Serial Number: #

Frequency 2443MHz

Vertical (3dB) Beamwidth: 16.2°

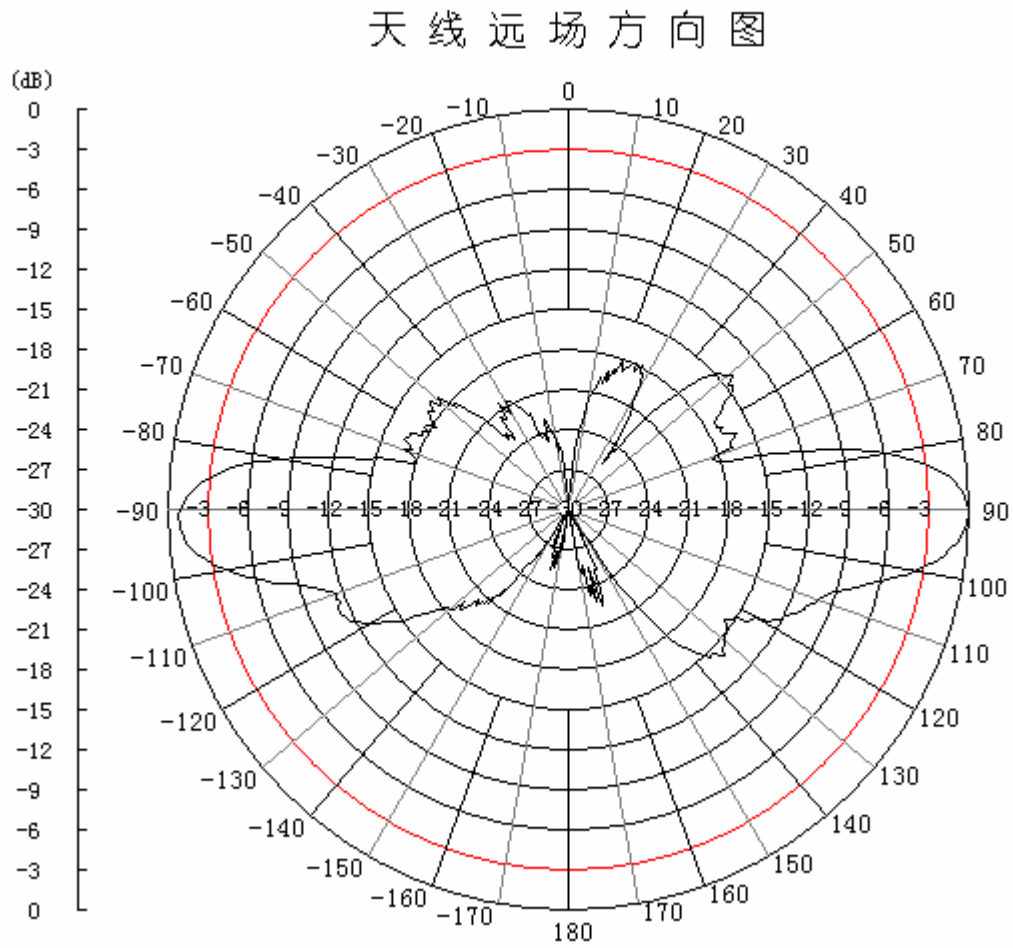


Chart 2

E-Plan Pattern

Sample Serial Number: #

Frequency 2485MHz

Vertical (3dB) Beamwidth: 15.7°

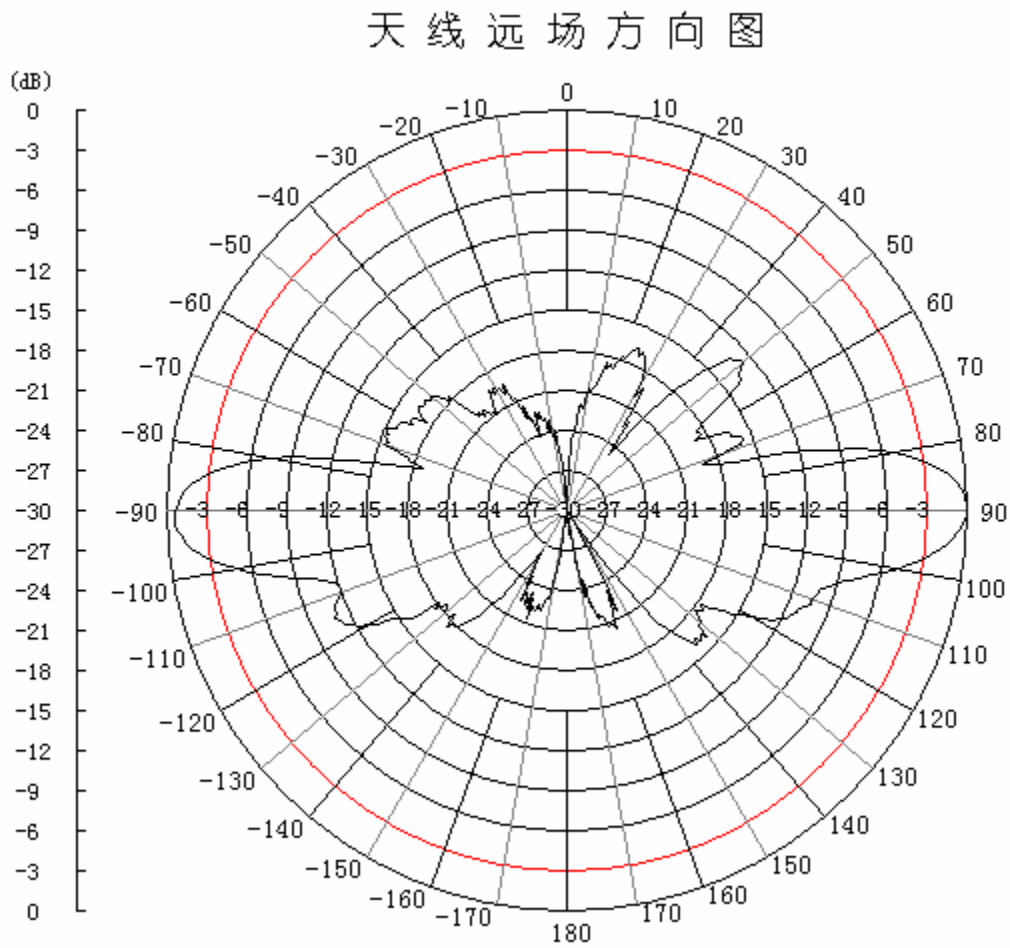


Chart 3

H-Plan Pattern

Sample Serial Number: #

Frequency 2400MHz

Vertical (3dB) Beamwidth: 360°

天线远场方向图

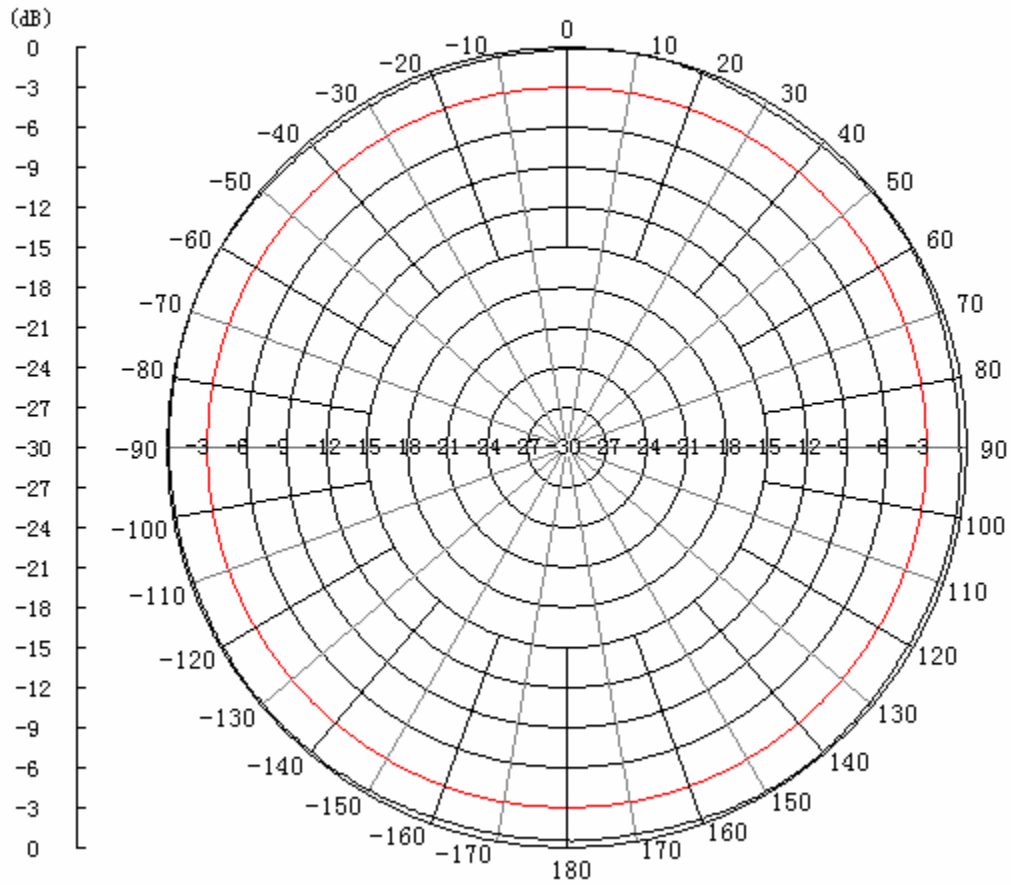


Chart 4

H-Plan Pattern

Sample Serial Number: 1 #

Frequency: 2443MHz

Vertical (3dB) Beamwidth: 360°

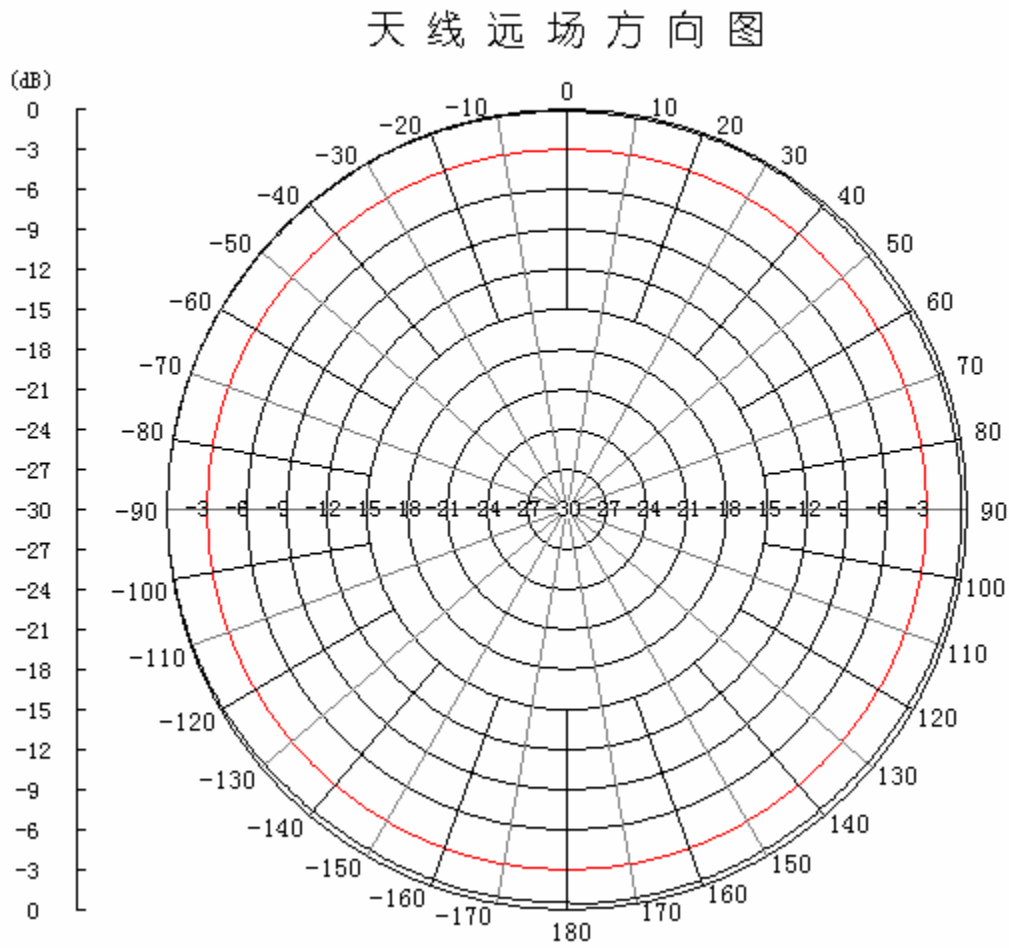


Chart 5

H-Plan Pattern

Sample Serial Number: 1 #

Frequency: 2485MHz

Vertical (3dB) Beamwidth: 360°

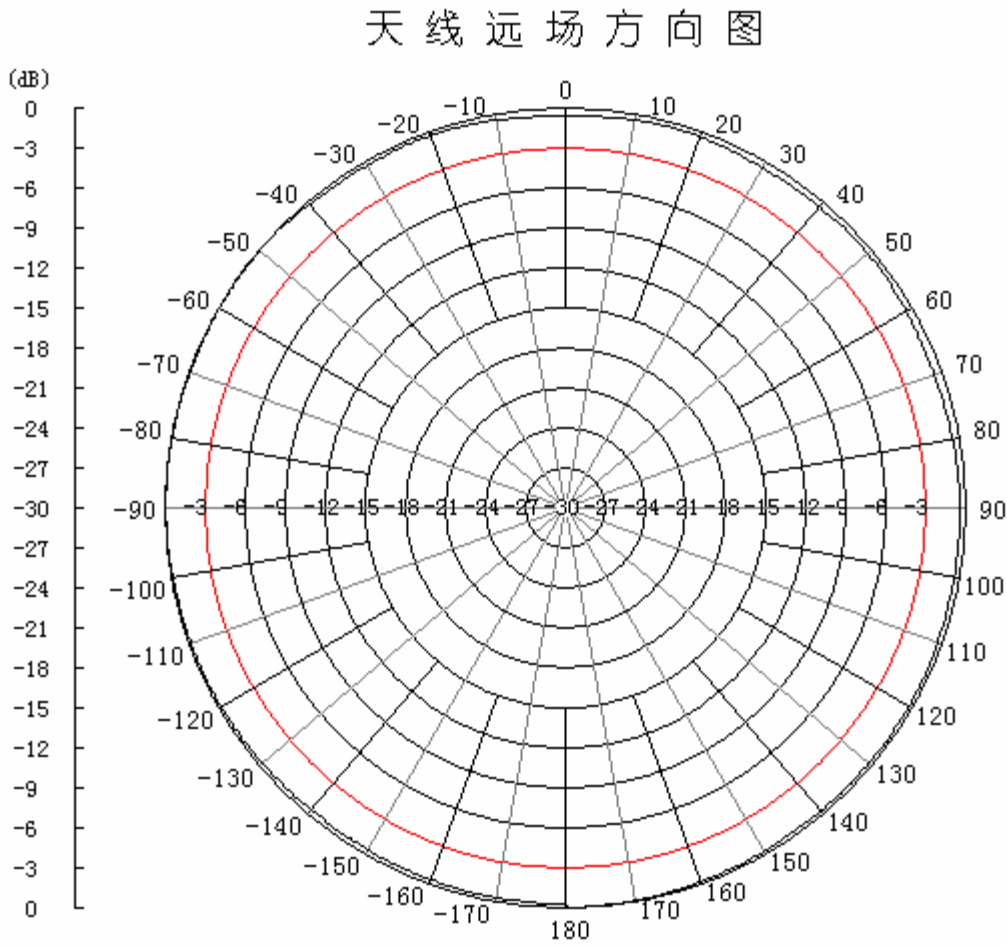


Chart 6

Apparatus for Antenna Measurement

Sequence Number	Apparatus Name	Antenna Model	Serial Number of Leaving Factory	Efficient Date
1	Vector Network Analyzer;	E8363B	MY43030476	12/2008
2	Analog Signals Emitter	E8257D	MY45140247	12/2008
3	Automatic System of Far Field Measurement	/	/	Until the Efficient Date
4	Standard Horn Antenna	HD-14HA15.5N	/	/