The Main Antenna Sample Confirmation

Project Name	2.4G wire antenna
Frequency Range	2.4G(2400MHz-2500MHz)

1 Internal materials of wires

Main materials	Scope of use	notes
PVC	External use of wires	environmental protection
copper wire	Conductor copper diameter 0.1	environmental protection
Environmentally friendly	tin Tin on wire stripping	environmental protection

2 performance

Specifications and dimensions

Product Name	Line length	wire color
2.4G Antenna (white)	33MM	white

PHOTO

Note: The 2.4G antenna specification is a 12 core outer diameter 1.3mm bare copper wire wire, white, with a length of 35mm. The wire end is peeled off with 3MM tin. Complies with environmental standards: EU EN71 (19E), ROHS, PAHS, 6P-16P, European and American CPSIA, HR4040.

Product Specification

A. Electrical Characteristics
Frequency 2400MHz ~2500MHz
VSWR <3.0
Efficiency >30%
Impedance 50 Ohm
Polarization Line
Gain 0DBi
B. Material & Mechanical Characteristics
Material of Radiator Cu
Cable Type 1.0 19P
Connector Type : NO
Dimension
C. Environmental
Operation Temperature - 30 °C ~ + 80 °C
Storage Temperature - 30 °C ~ + 85 °C
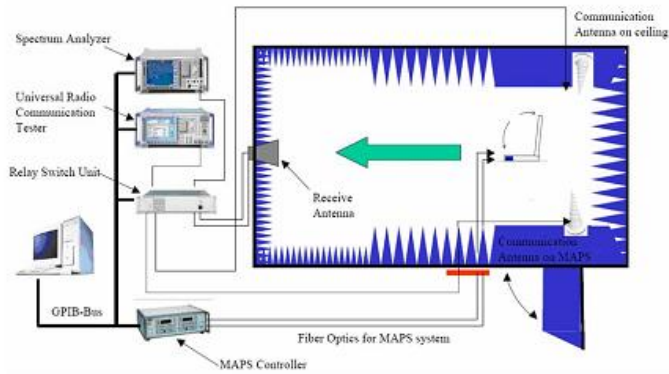
Test Equipment & Conditions
1. Network Analyzers :
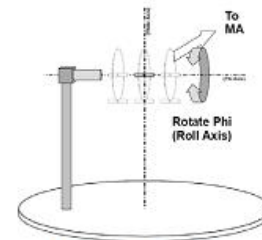Agilent 8753D 5071B
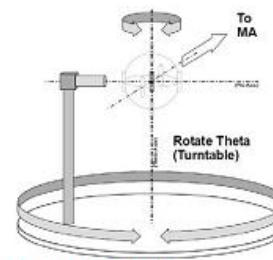## 2. Communications Test Set:
Agilent E5515C

3. 3D Chamber Test System
Effiency &Gain

(Testing by 3D anechoic chamber)
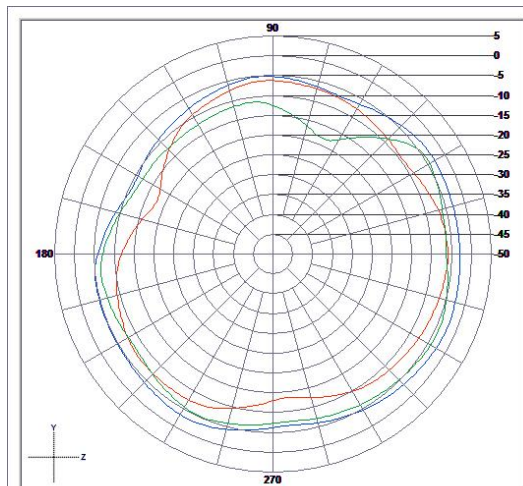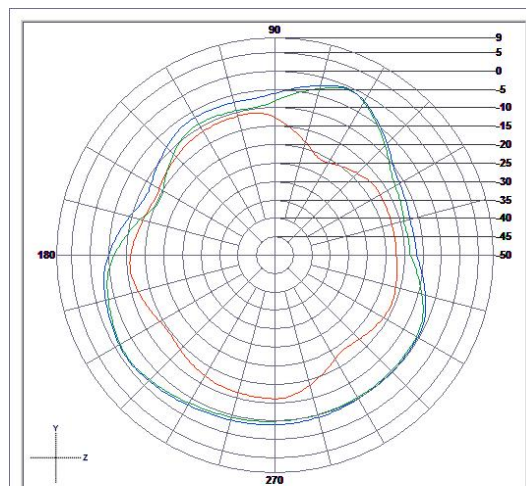
Phi axis test

Theta axis test

Effiency &Gain

2.40   **-0.00**
2.440   **-0.11**
2.48   **-0.13**

Radiation Pattern:

	Vertical	Horizontal	Total
Avg. Gain	-8.4	-6.99	-4.63
Peak Gain	-5.48	-3.77	-2.17

	Vertical	Horizontal	Total
Avg. Gain	-13.34	-5.06	-4.46
Peak Gain	-10.3	0.09	0.12

	Vertical	Horizontal	Total
Avg. Gain	-13.42	-4.6	-4.06
Peak Gain	-9.47	0.1	0.17