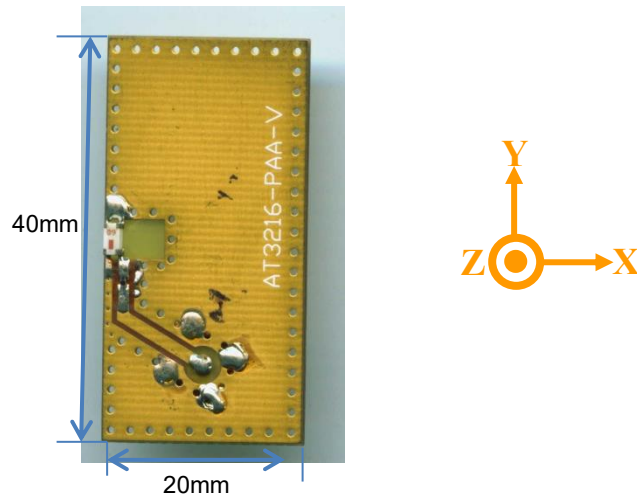


Enclosures :

1. Antenna matching circuits diagram:

2450AT18D0100



2. Conclusion and suggestion:

2.1 Antenna gain :

Gain Table

Unit in dBi @2.45GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
2450AT18D0100	1.8	-3.2	2.6	-0.3	1.4	-3.2	72%

2.2 Summary :

After impedance matching, the antenna gains are listed on the above table. Please refer to the recommended matching circuits and PCB layout in these corresponding datasheets.

2. Measurement results:

A. Instrument setup

▲ Return Loss / VSWR:

♦ Instrument : vector network analyzer-Agilent E5071C

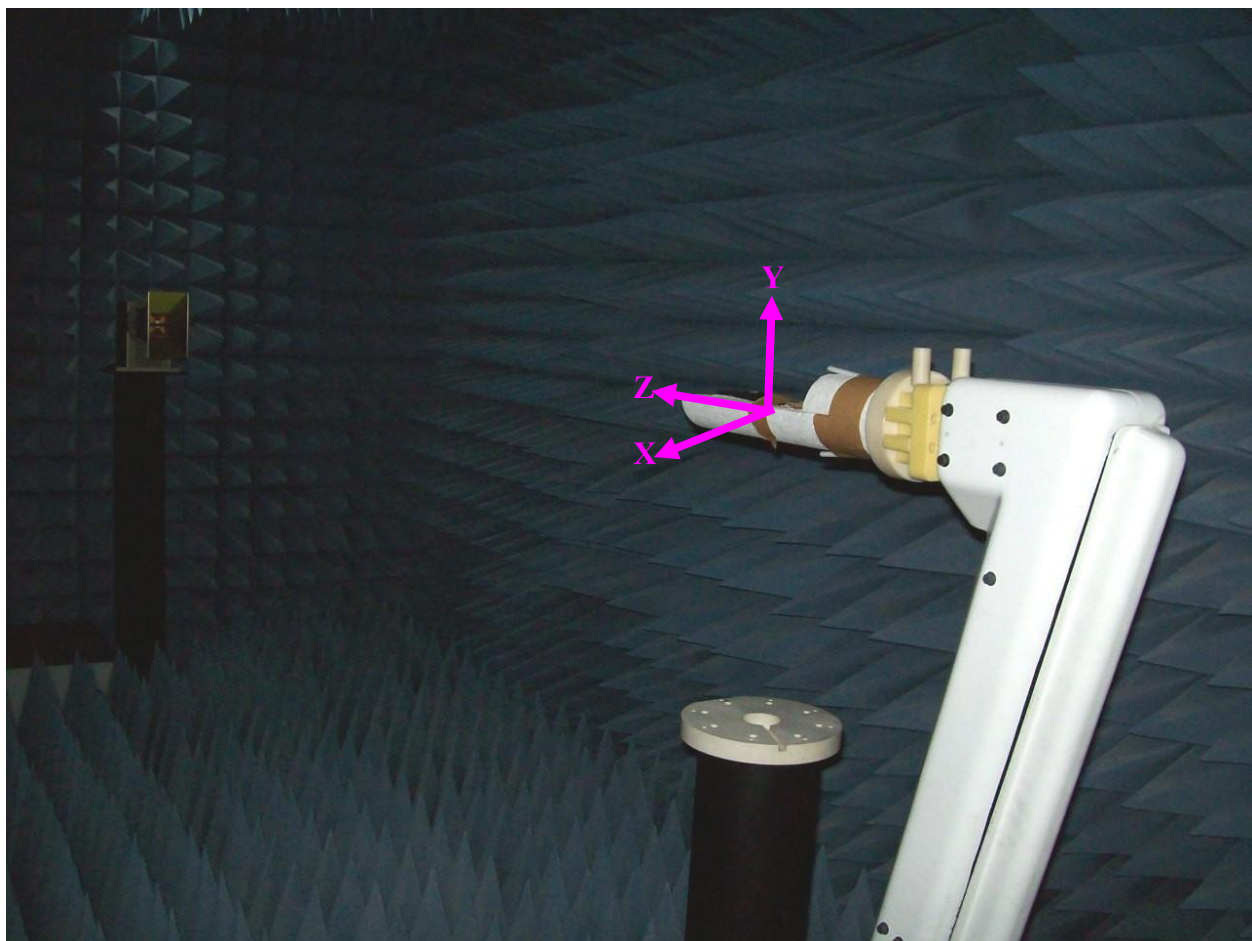
♦ Calibration method : open/short/load –Cal.Kit 85052D

▲ 3D Radiation Pattern :

♦ NSI 800F-10 Far Field antenna measurement system

D. Antenna radiation pattern

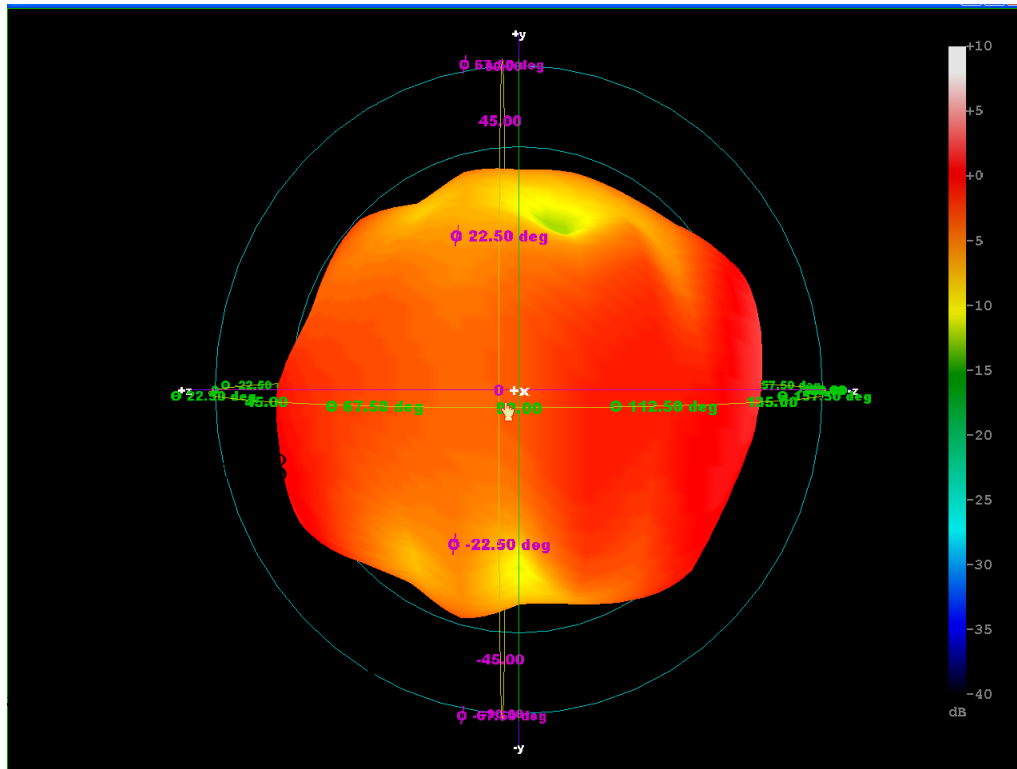
♦ Scanning direction



◆Plane definition

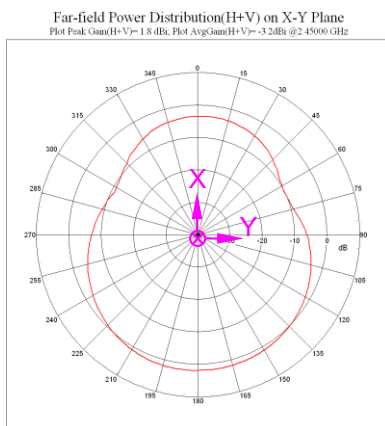
XY-plane	Theta=90°
XZ-plane	Phi=0°
YZ-plane	Phi=90°

◆ 3D Radiation Pattern



2450AT18D0100 Radiation Pattern @ 2.45GHz

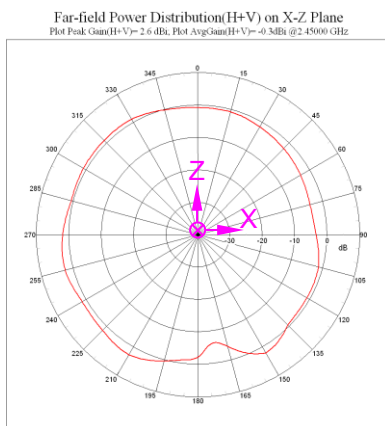
◆XY-plane



Unit : dBi

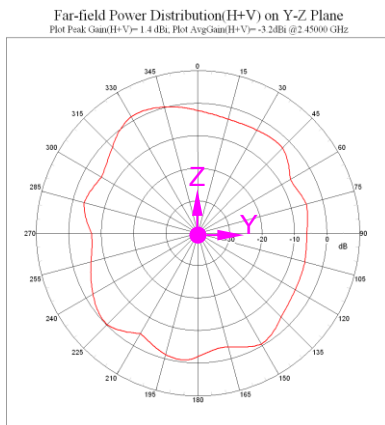
	Peak gain	Avg. gain
XY-plane	1.8	-3.2

◆XZ-plane



	Peak gain	Avg. gain
XZ-plane	2.6	-0.3

◆YZ-plane



	Peak gain	Avg. gain
YZ-plane	1.4	-3.2