

产品规格书

PRODUCT SPECIFICATION

工作频段 Working Band

2400MHz-2500MHz 5150MHz- 5850MHz

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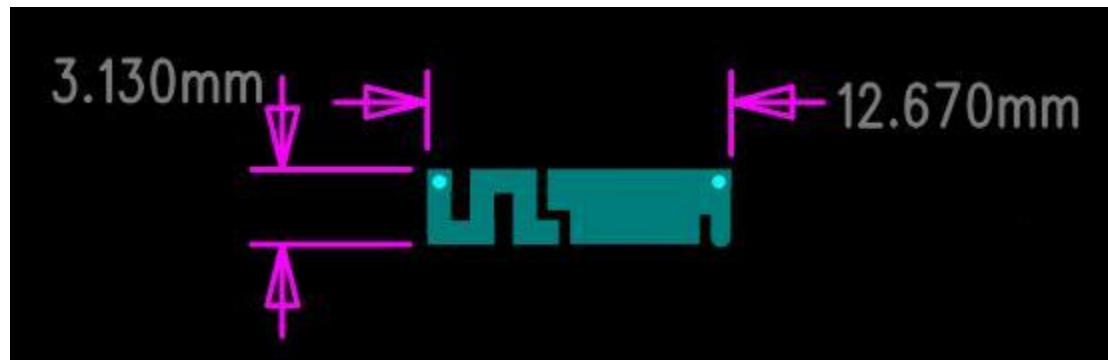
Antenna introducing

- ◆ work in 2.4~2.5&4.9~5.825GHz .
- ◆ Design by dipole antenna theory.
- ◆ High gain, High efficiency, Good port matching.
- ◆ Make wireless equipments better communication.

Antenna useful area

- ◆ Pads, note-book, reader and so on.
- ◆ IP camera, set top box and so on.
- ◆ DVD player, TV and consumer electronics.

Antenna size



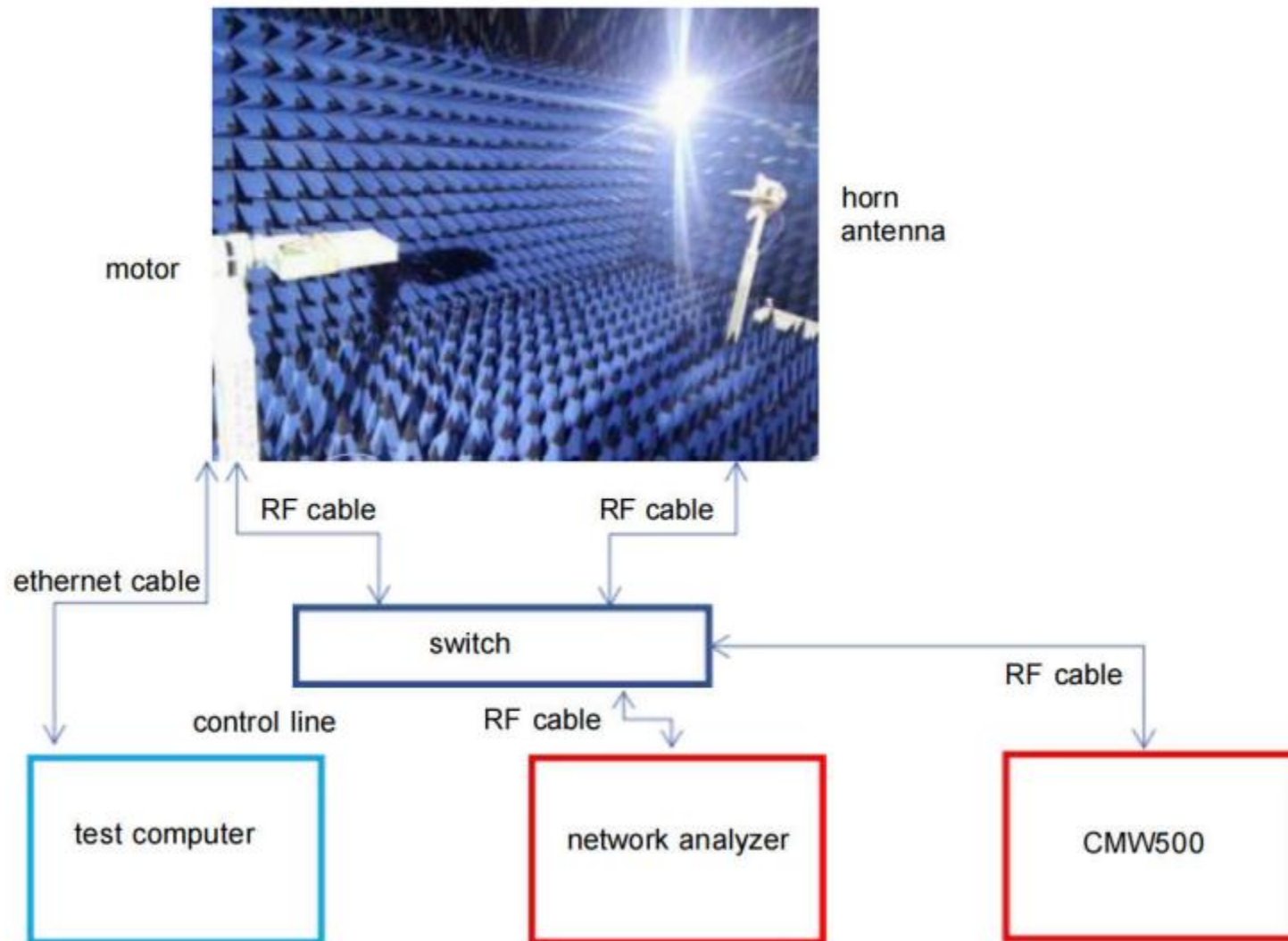
Antenna electrical properties

Frequency	2.4~2.5&4.9~5.825GHz
Impedance	50ohm nominal
V.S.W.R	≤ 2.0
Return loss	$\leq -10\text{dB}$
Radiation	Omni-directional
Gain(Peak)	2G:4.2dBi/ 5G:2.75dBi
Polarization	Linear
Admitted Power	2W
Connector	IPEX
Efficiency	2G:68%/ 5G:63%
Cable	RF $\Phi 1.13$ cable and length is 100mm

Antenna S-parameter

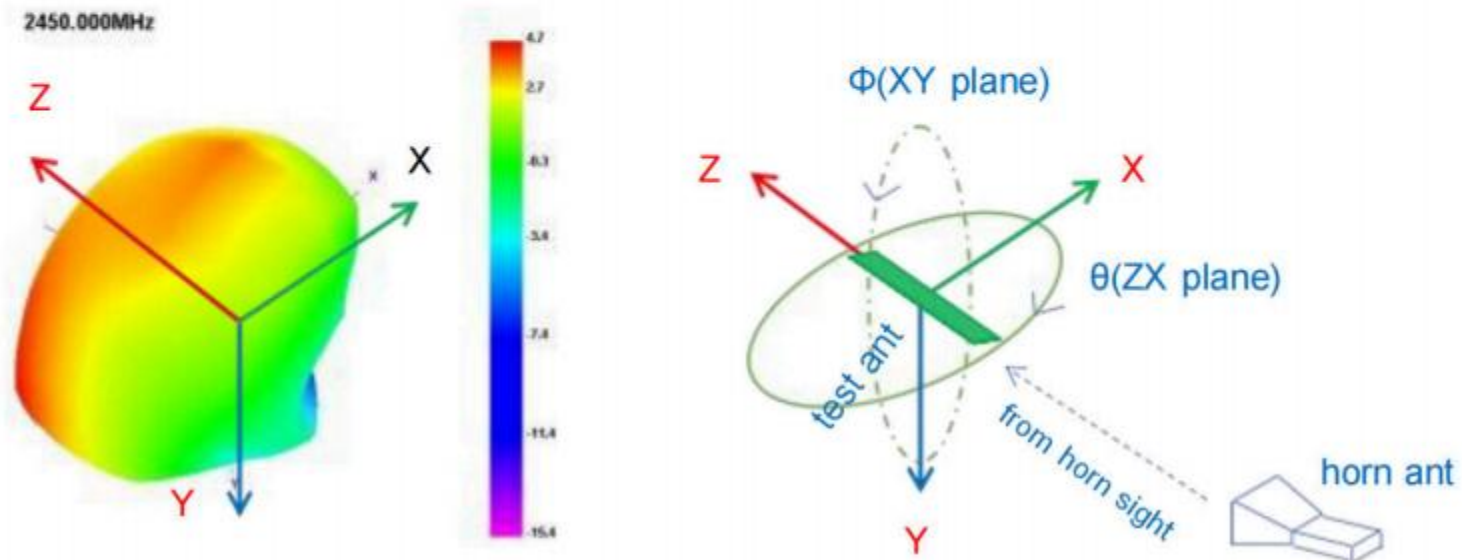


Antenna chamber structure

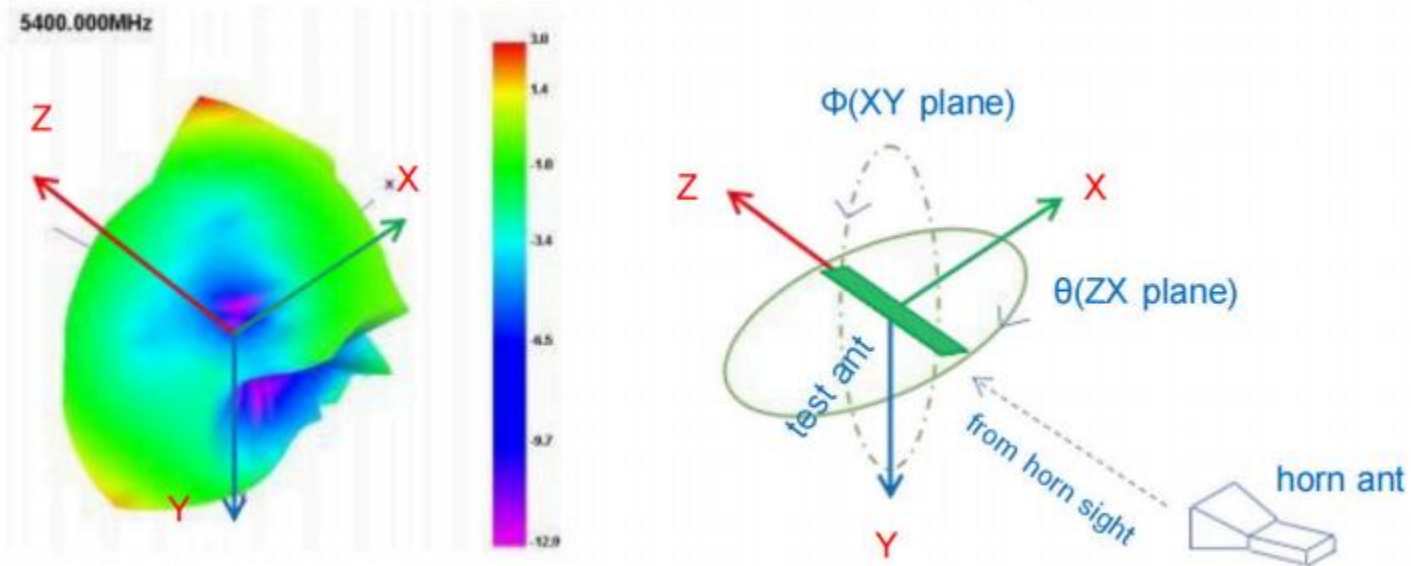


Antenna total gain and efficiency

	Freq. (MHz)	Gain (dBi)	Efficiency (%)
COPPER_PIPE_ANT	2400	3.25	65%
	2450	4.0	68%
	2500	4.2	67%

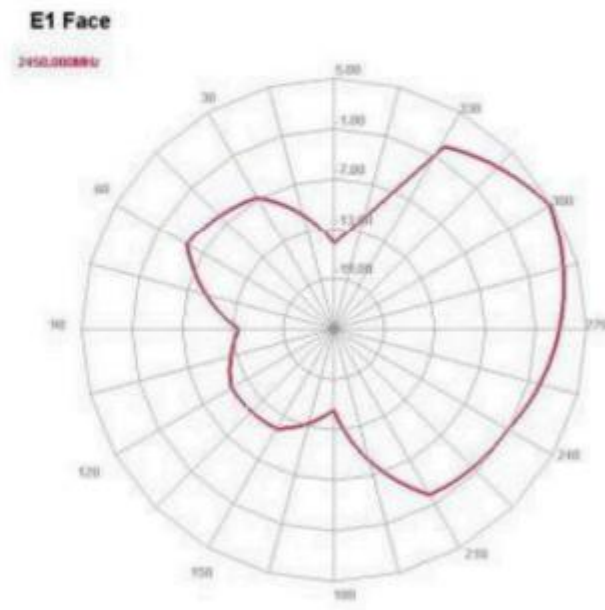
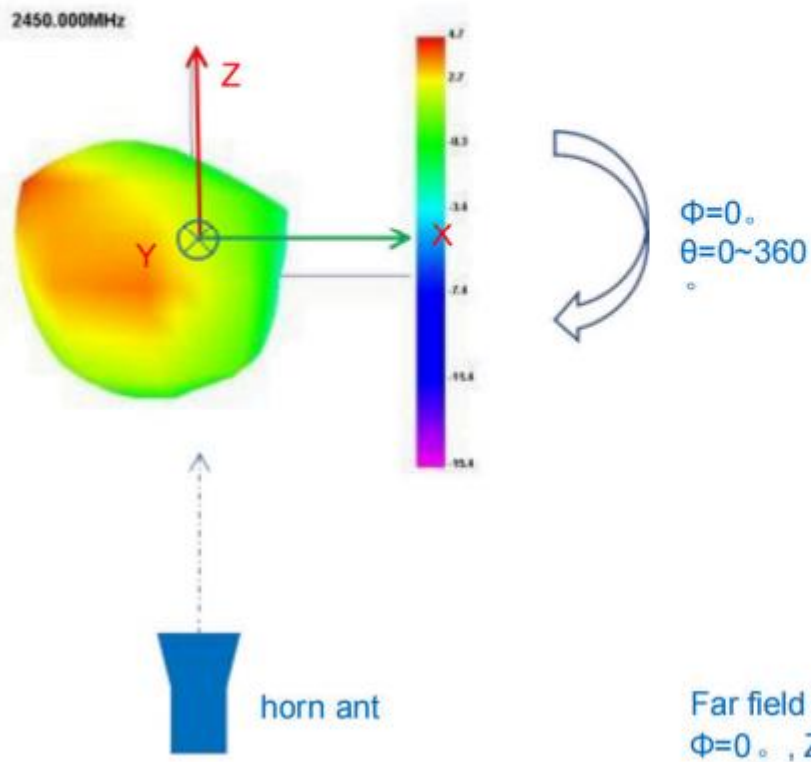


	Freq. (MHz)	Gain (dBi)	Efficiency (%)
PCB_ANT	5100	2.75	62%
	5400	2.56	65%
	5820	2.4	62%

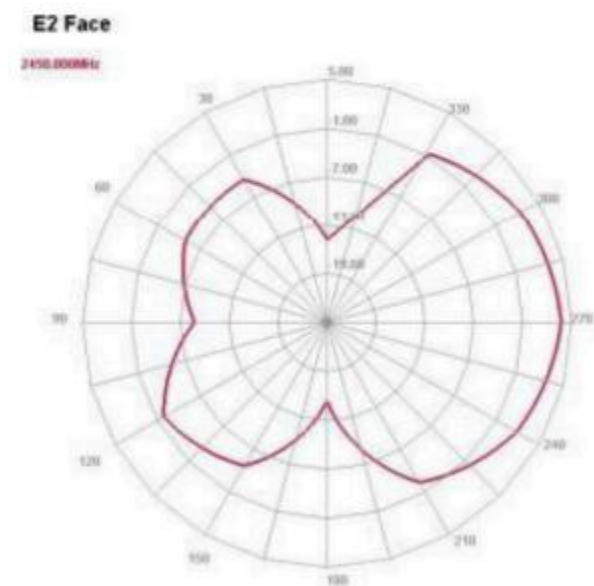
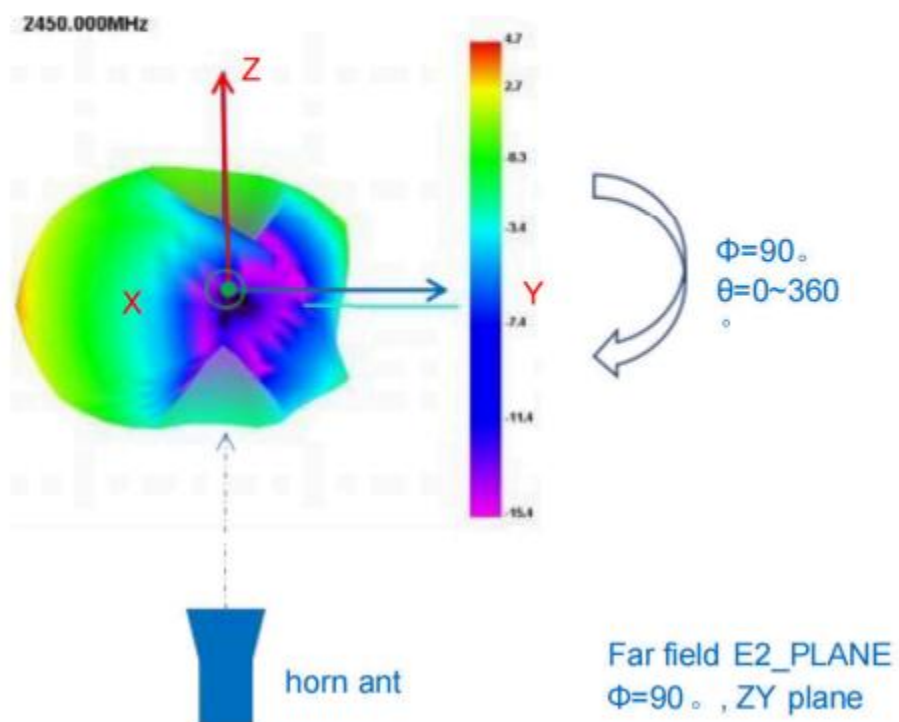


Radiation Pattern E_PLANE

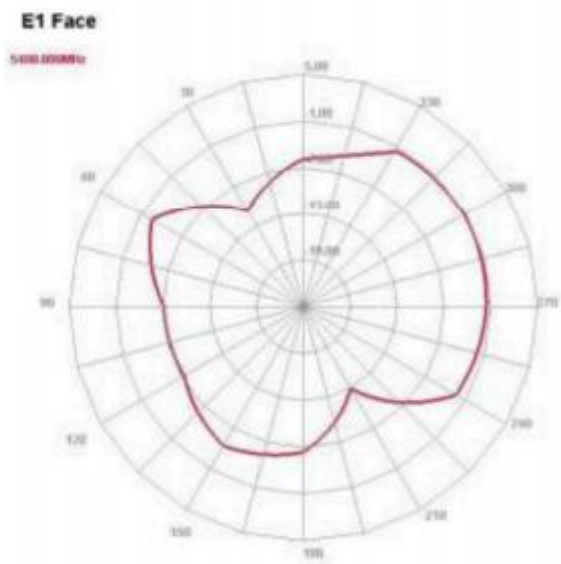
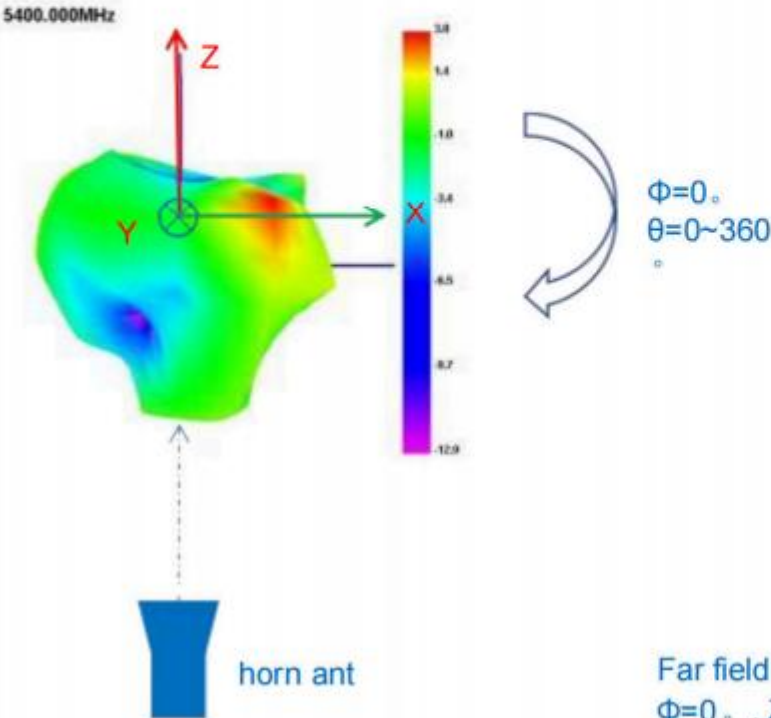
	Freq. (MHz)	Gain (dB)
PCB_ANT	2450	4.0



	Freq. (MHz)	Gain (dB)
PCB_ANT	2450	4.0

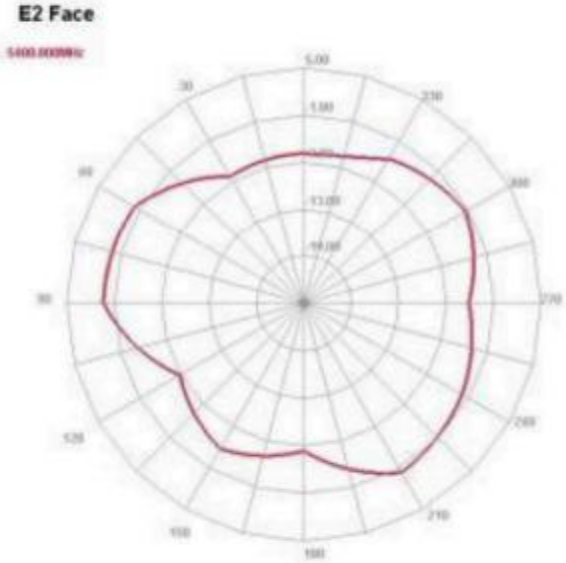
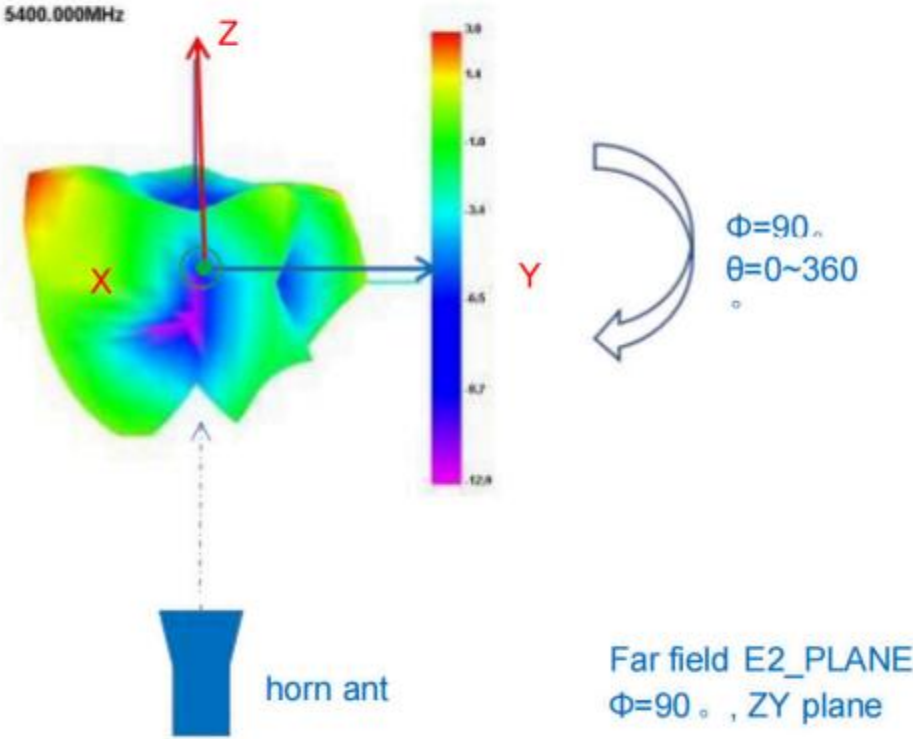


	Freq. (MHz)	Gain (dB)
PCB_ANT	5400	2.56



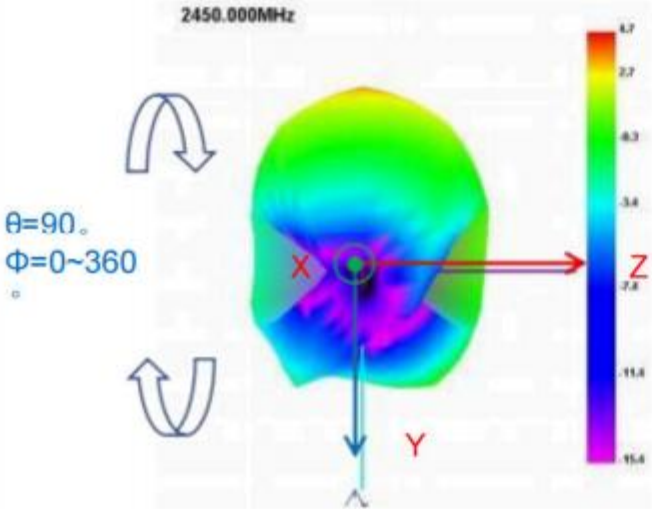
Far field E1_PLANE
 $\Phi=0^\circ$, ZX plane

	Freq. (MHz)	Gain (dB)
PCB_ANT	5400	2.52



Radiation Pattern H_PLANE

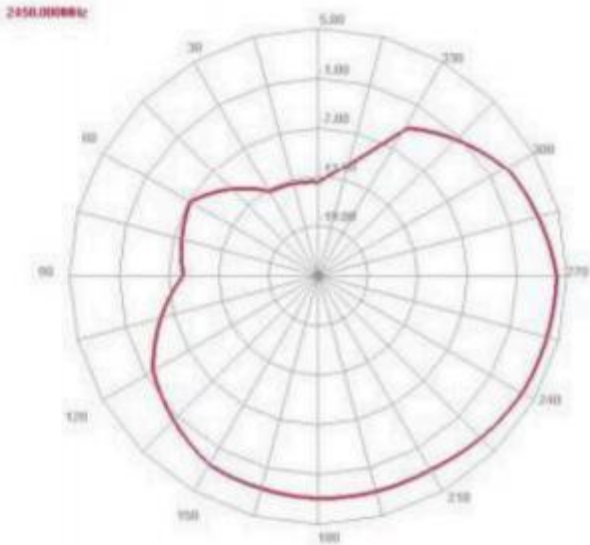
	Freq. (MHz)	Gain (dB)
PCB_ANT	2450	4.0



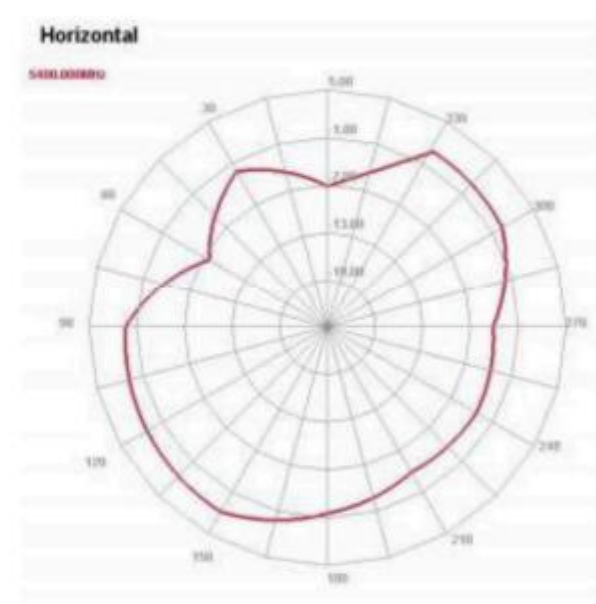
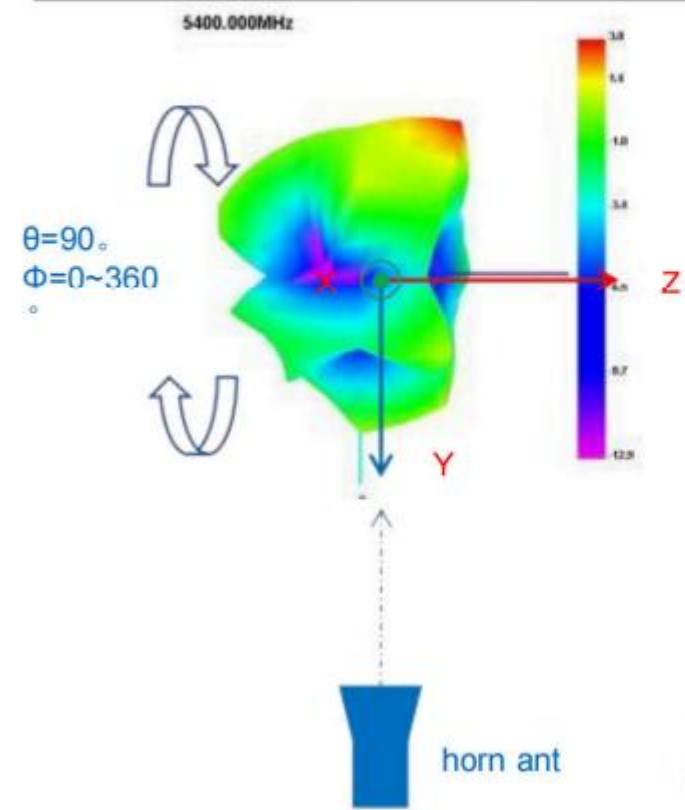
horn ant

Far field H_PLANE
 $\theta = 90^\circ$, XY plane

Horizontal



	Freq. (MHz)	Gain (dB)
PCB_ANT	5400	2.53



Far field H_PLANE
 $\theta=90^\circ$, XY plane