

Product specification

Quick Reference Date

	Antenna module on the system board	
Frequenc Range	2400 ~ 2500MHz	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	- 1.2 (Input pwr – loss pwr)	
Peak EIRP(dBm)	0.9	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	6 0.2 %	
Gain (dBi)	0.90(Peak Gain XZ-plane)	
Maximum Power (dBm)	1.7 (XY-plane)	
Minimum Power (dBm)	-4(XY-plane)	
Avg. Power (dBm)	-0.58(XY-plane)	
Input Impendence(ohm)	50	
Polarization Type	V ertical & Horizontal	
V . S .W . R	< 1.4	

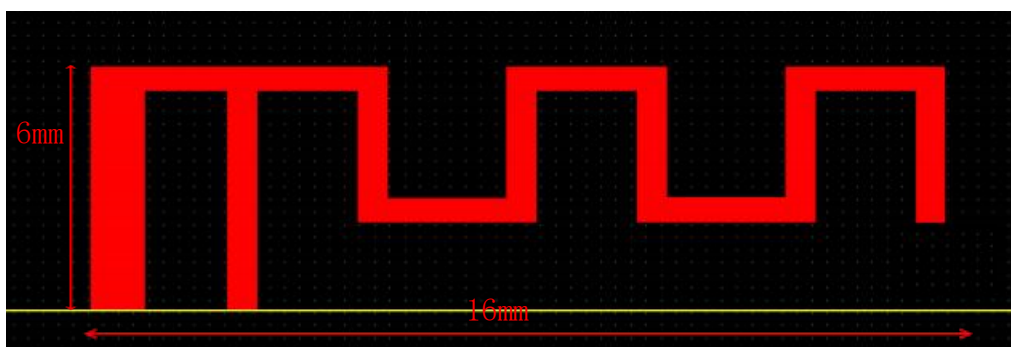
Manufacturer: Shenzhen HKLS Technology Co., Ltd

Add:516 Xiwan Building, No. 15 Jinhai Road, Yantian Community, Xixiang Street,
Bao'an District,

Shenzhen, China

Model: MA-C40

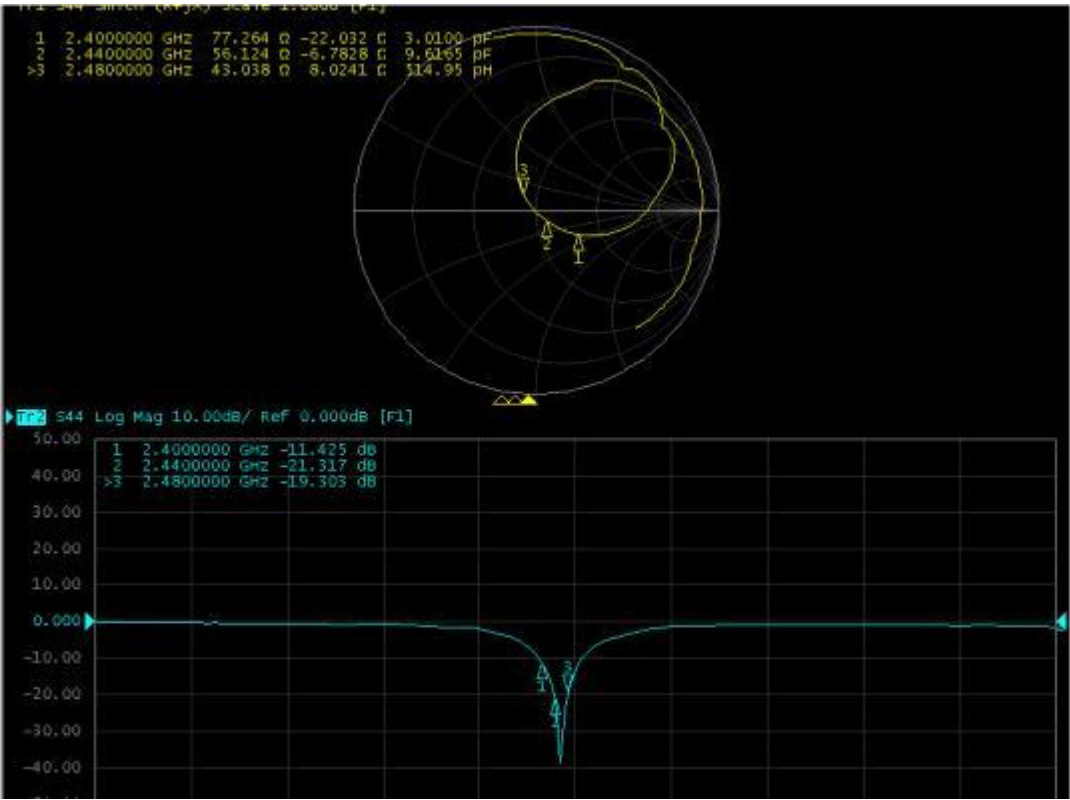
Antenna Layout & module on the system board



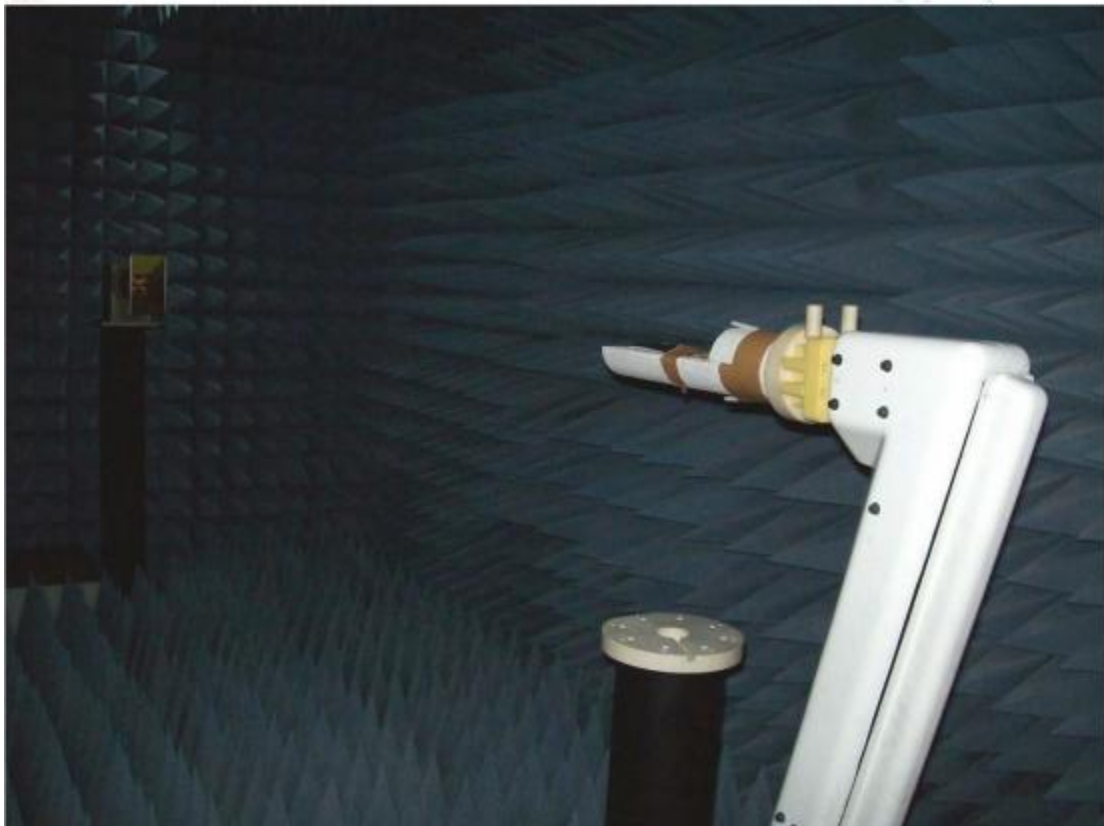
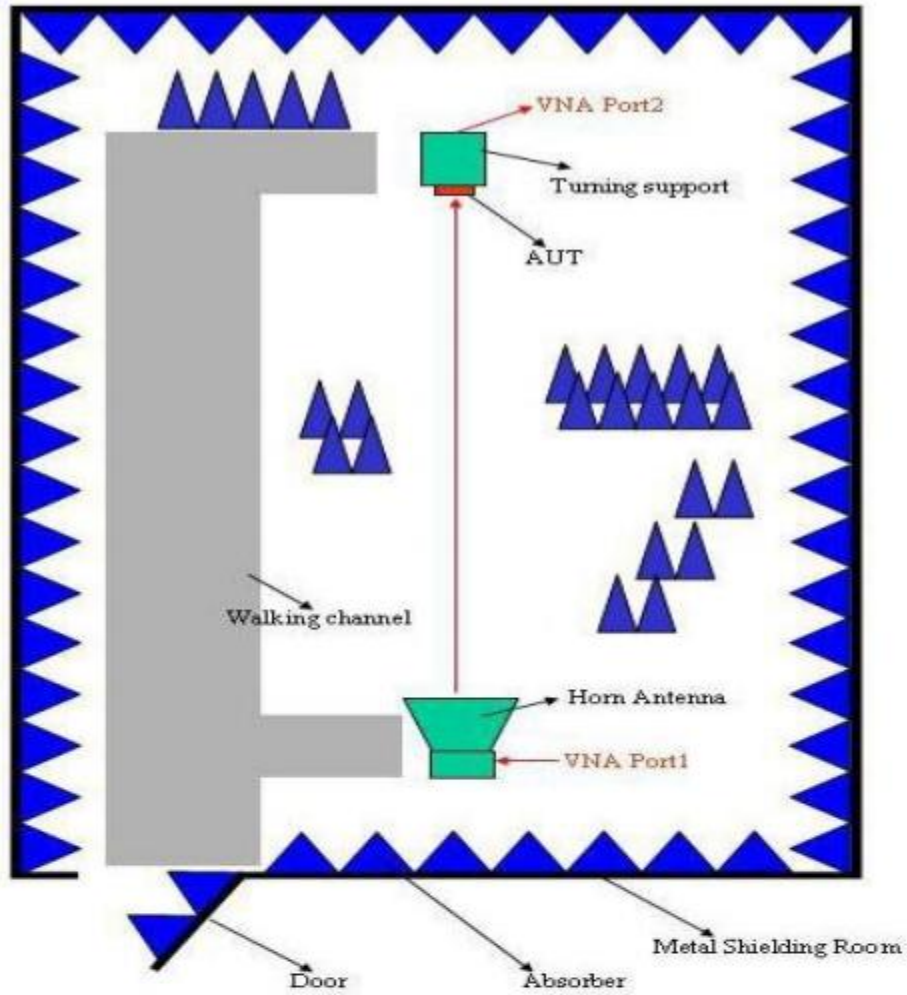
Antenna Gain

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	0.9	-0.58	0.68	-1.42	0.11	-1.07	6 0.2 %

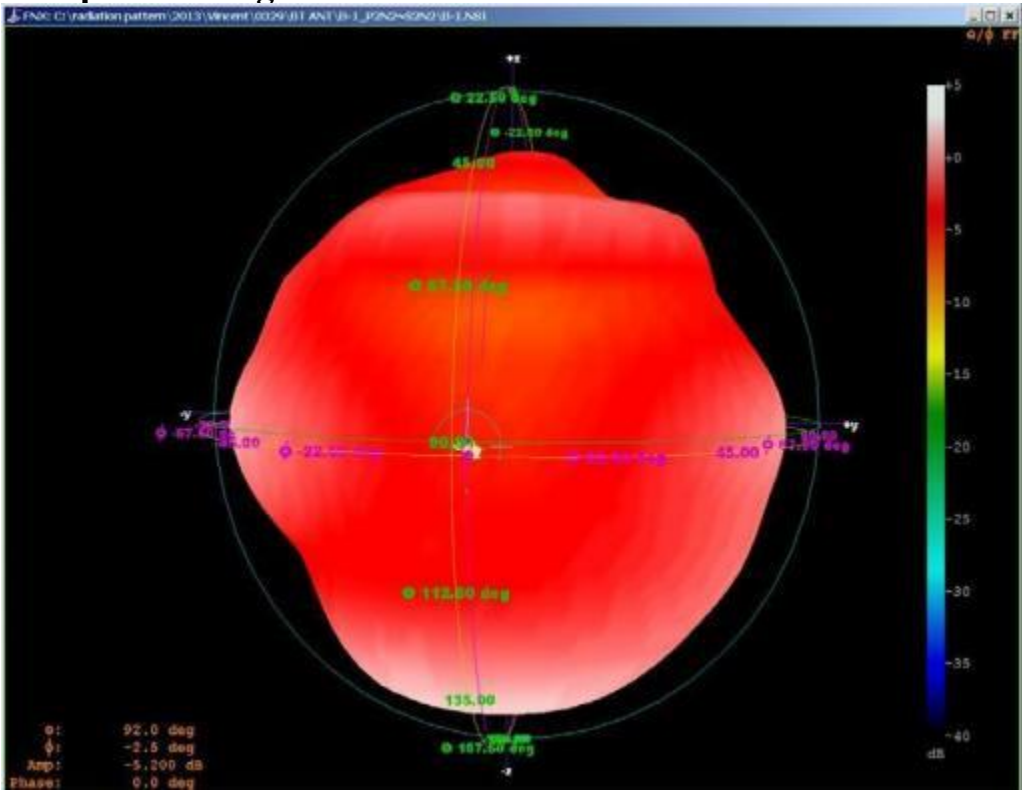
Return Loss



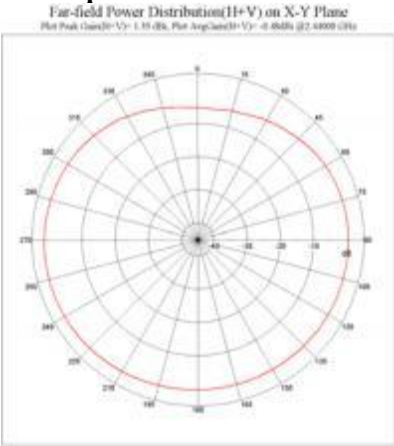
The Environment of Antenna Radiation Pattern



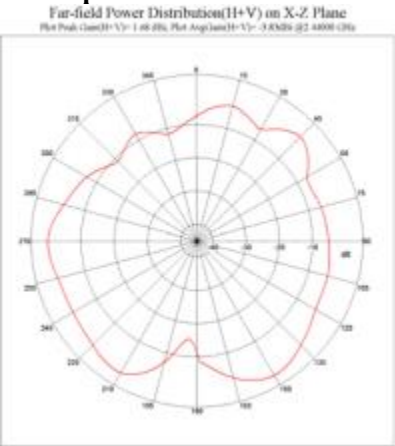
3D radiation pattern diagram



XY-plane



XZ-plane



YZ-plane

