

Onboard monopole antenna test report during 2.4G-2.48G

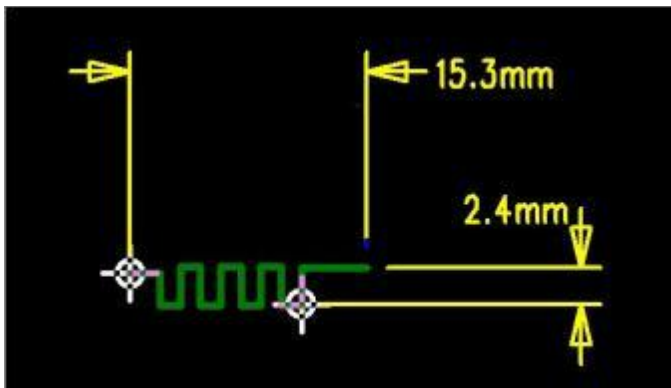
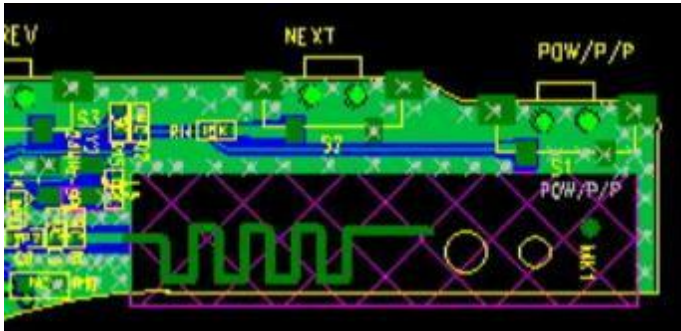
SPECIFICATIONS

Frequency (MHz)	2400-2480
Average Gain (dBi)	>-10
VSWR	<2
Antenna model	RF01
Impedance (Ω)	50 Ω
Antenna Type	Plannar Inverted F Antenna on board
Polarization	Linear
Manufacturer Name	SHENZHEN REEED INFORMATION TECHNOLOGY CO.LTD
Address	Room 305, Building C, Xinda Creative Park, Bao Tian 2nd Road, Bao'an District, Shenzhen City

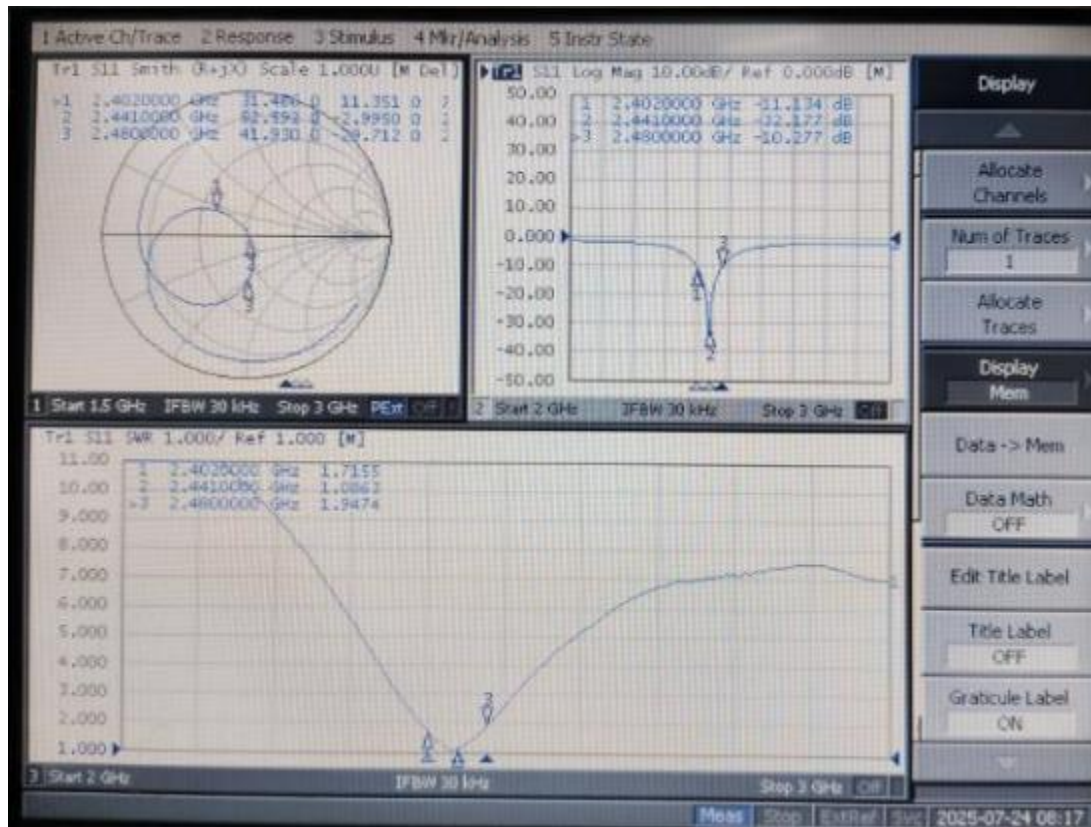
Test environment: General Test darkroom test system



Antenna and its physical dimensions



Antenna Passive S-Parameters:VSWR,Return Loss,Smith Chart

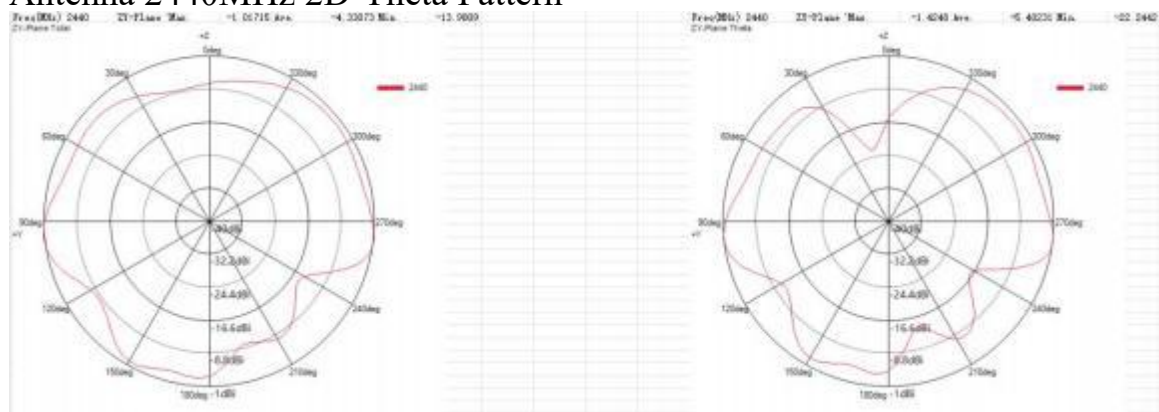


Fre. MHZ	2400 (MHz)	2440 (MHz)	2480 (MHz)
VS11	-11.13	-32.17	-10.27
SWR	1.71	1.08	1.94

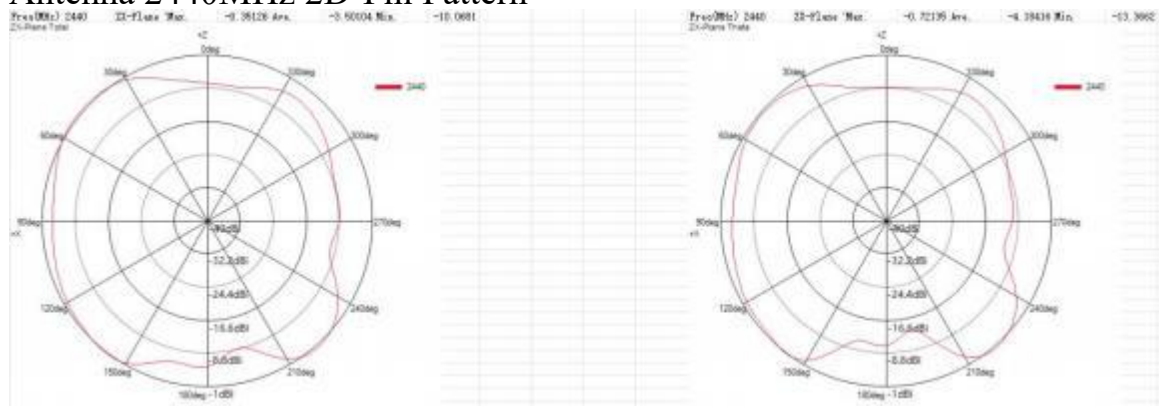
Antenna efficiency and gain

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Efficiency (dB)
2400	0.42	42.10	-3.76
2410	0.21	42.19	-3.75
2420	0.11	42.67	-3.70
2430	-0.25	42.51	-3.71
2440	-0.31	42.67	-3.70
2450	-0.16	43.14	-3.65
2460	-0.18	42.42	-3.72
2470	-0.30	41.51	-3.82
2480	-0.11	41.58	-3.81

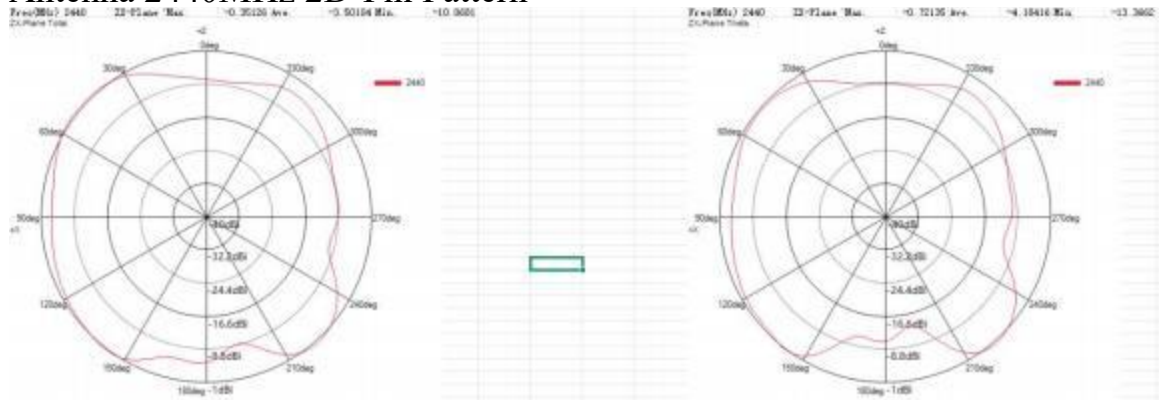
Antenna 2440MHz 2D-Theta Pattern



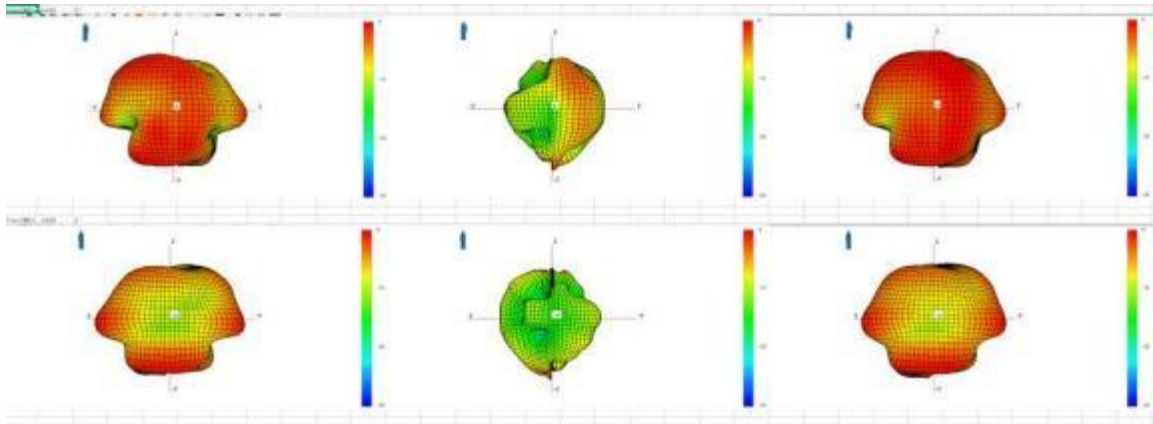
Antenna 2440MHz 2D-Phi Pattern



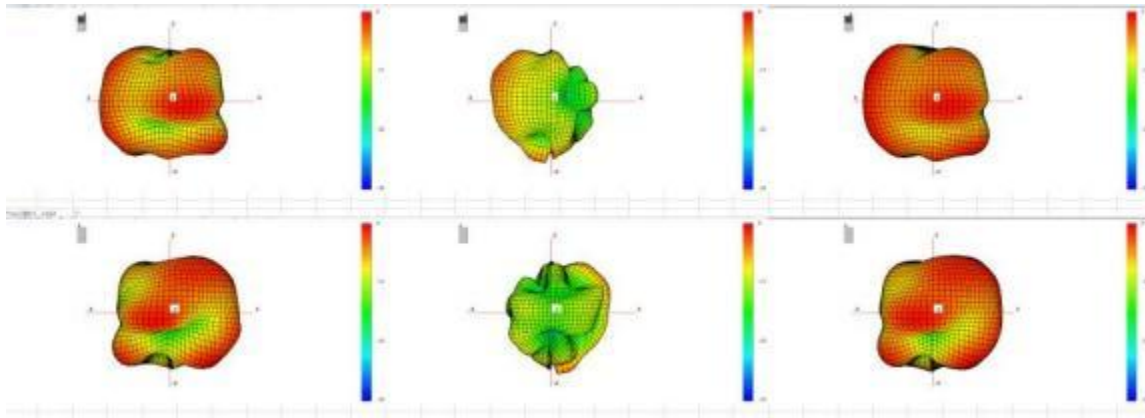
Antenna 2440MHz 2D-Phi Pattern



Antenna 2440MHz 3D-Horizontal Pattern



Antenna 2440MHz 3D-Vertical Pattern



Antenna 2440MHz 3D-Vertical Pattern

