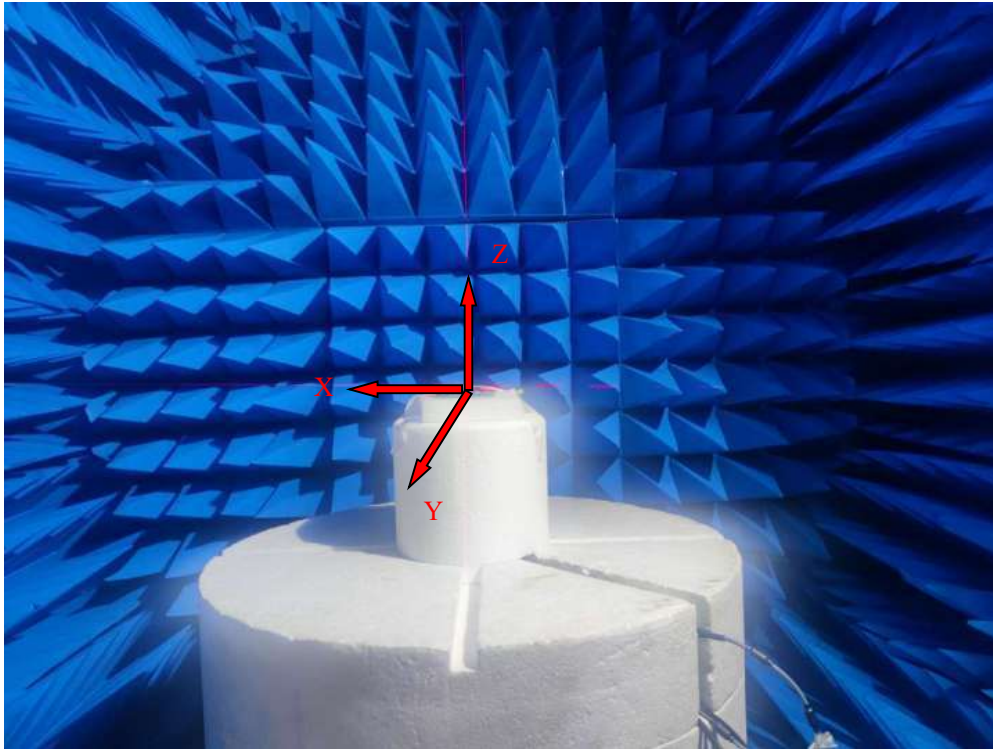


Q9 – TX – 2.4G – 2.48G Band Board-mounted Antenna Test Report

SPECIFICATIONS	
Frequency (MHz)	2400-2480
Peak Gain (dBi)	2.499
Average Gain (dBi)	>-2
VSWR	<3.2
Impedance (Ω)	50 Ω
Antenna Type	Plannar Inverted F Antenna on board
Polarization	Linear

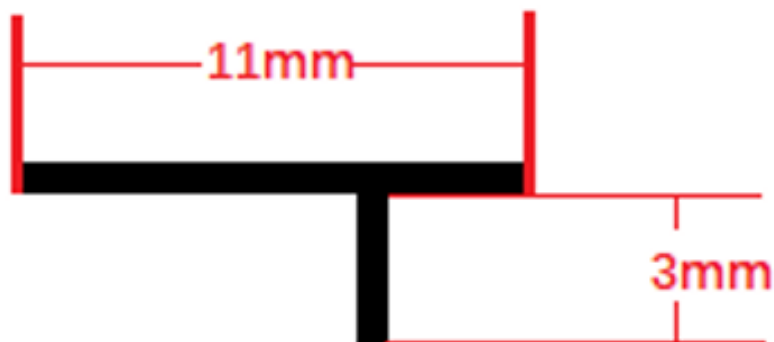
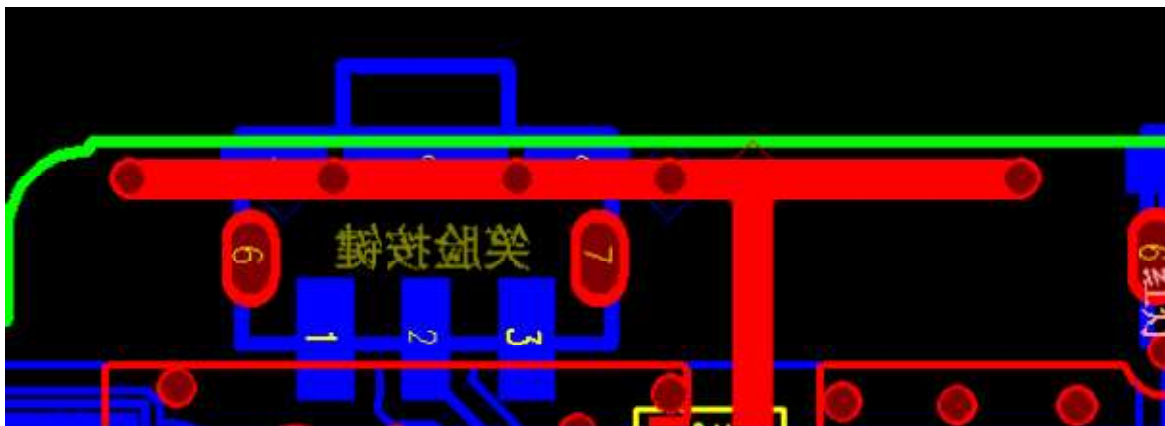
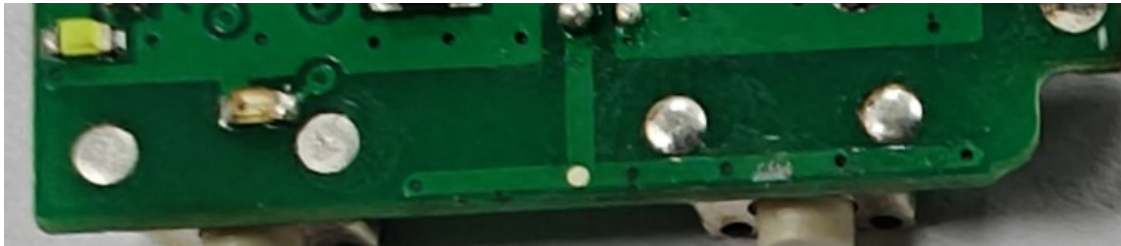
Test environment: Keyuan Guozhi darkroom testing system



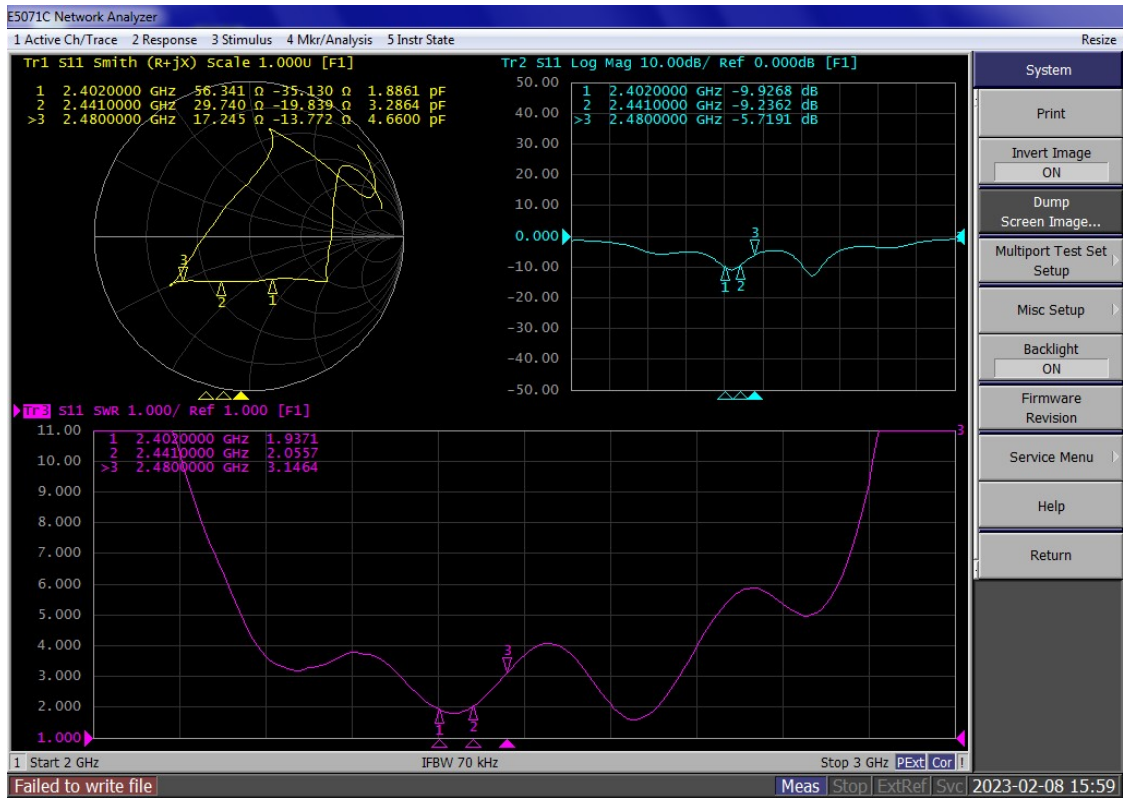
SHENZHENCSCURVETECHNOLOGYCO.,LTD.

Room 610, Building B, Huafeng Zhigu - Yuanshan High-tech Industrial Park,
No. 62, Yinhe Road, He 'ao Community, Yuanshan Sub-district, Longgang
District, Shenzhen

Antenna physical object and physical dimensions



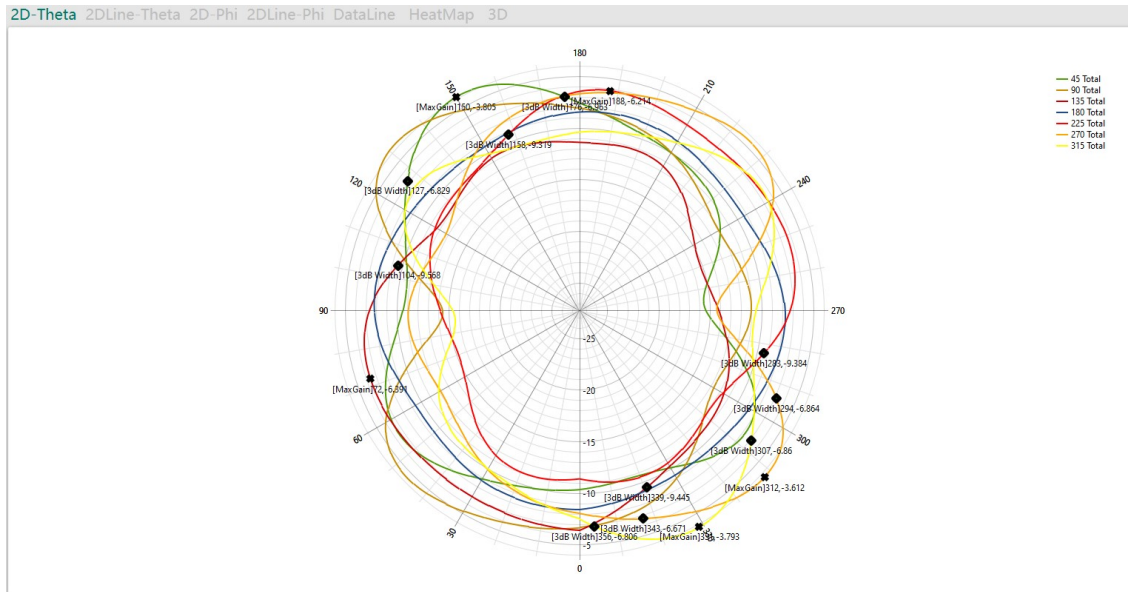
Antenna passive S parameters:
Voltage Standing Wave Ratio (VSWR), Return Loss
and Smith Chart



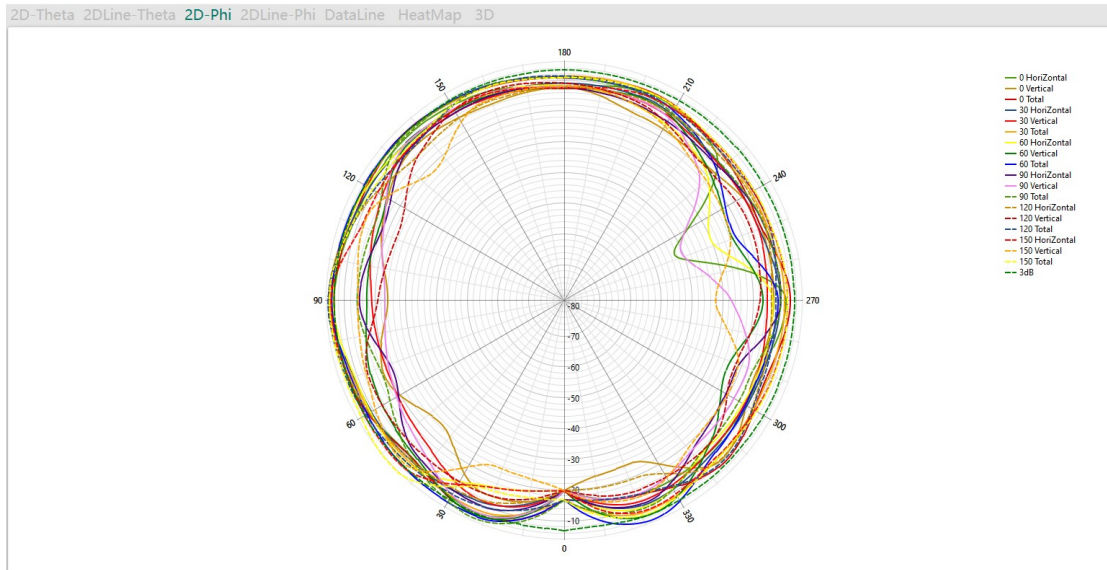
Antenna efficiency and gain

Frequency (MHz)	Gain (dBi)	Efficiency (%)	AverageGain (dBi)	Efficiency (dB)
2400	1.433	59.329%	-2.717	-2.267
2410	0.927	51.861%	-3.416	-2.852
2420	0.829	52.112%	-3.166	-2.831
2430	0.881	49.299%	-3.258	-3.072
2440	1.192	50.672%	-2.231	-2.952
2450	1.688	53.067%	-2.735	-2.752
2460	2.194	59.423%	-2.276	-2.260
2470	2.118	56.680%	-2.438	-2.466
2480	2.499	61.727%	-2.112	-2.095
MAX	2.499	61.727%	-2.112	-2.095

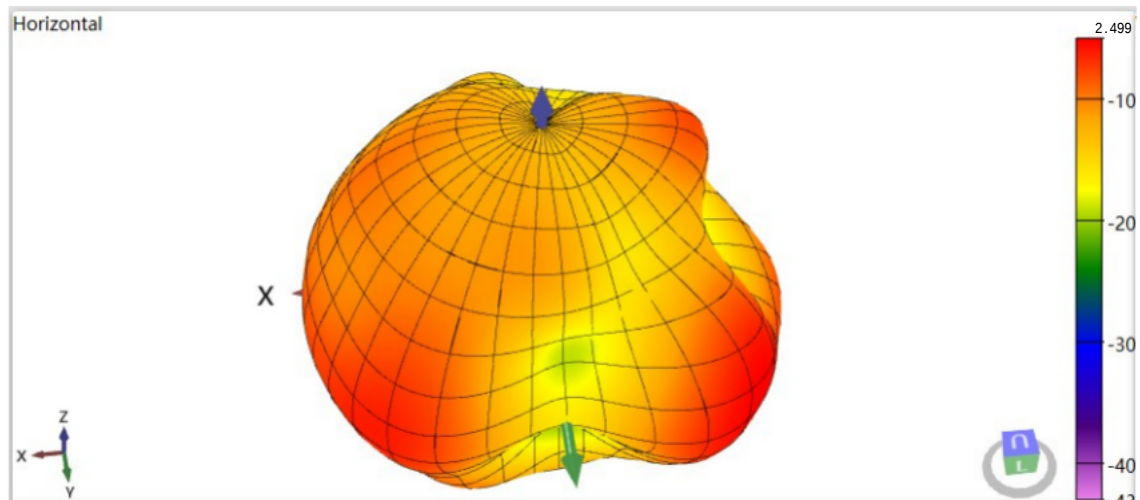
Antenna 2440MHz 2D-Theta Pattern



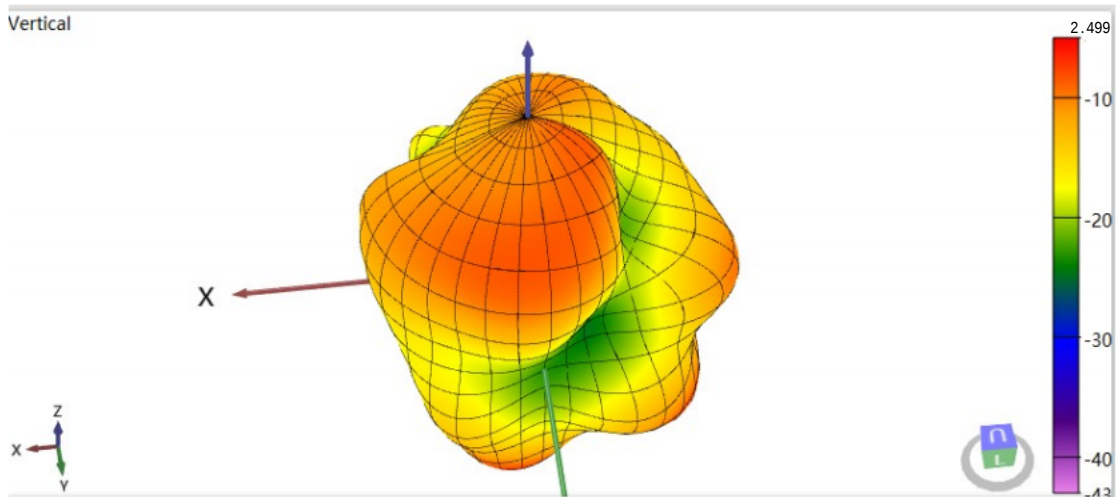
Antenna 2440MHz 2D-Phi Pattern



2440MHz 3D Horizontal Pattern



2440MHz 3D Vertical Pattern



2440MHz 3D-Total Pattern

