

The Antenna Test Report

Y-YB-CR-115

V001

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Antenna Coding: ESP32-C3-MINI-1

Antenna Type : PCB onboard Antenna

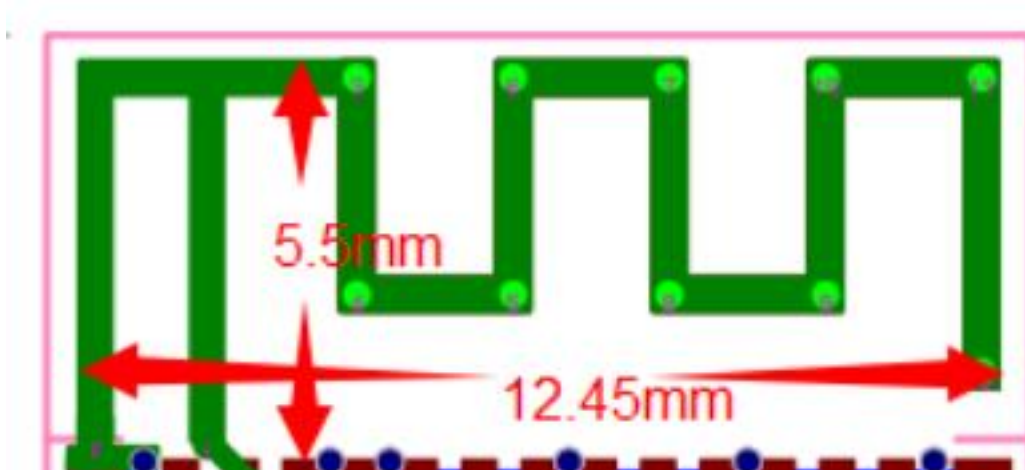
Model of the DUT: QS-LS

Antenna Manufacturer: Georama, Inc. DBA QualSights

1、Technical Specification

Electrical Specifications	
Frequency Range (MHz)	2400-2480
Input Impedance (Ω)	50
Return Loss (dB)	<-11.7
VSWR	<1.7
Peak Gain (dBi)	1.51
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	5.5*12.45
Radiator	Cuprum

2、The shape and size of the antenna



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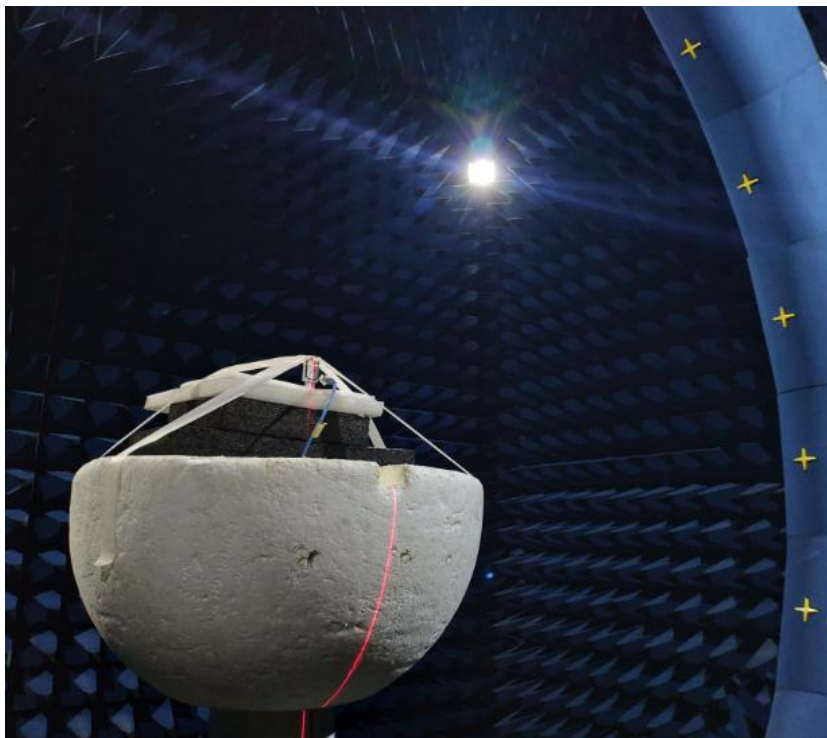
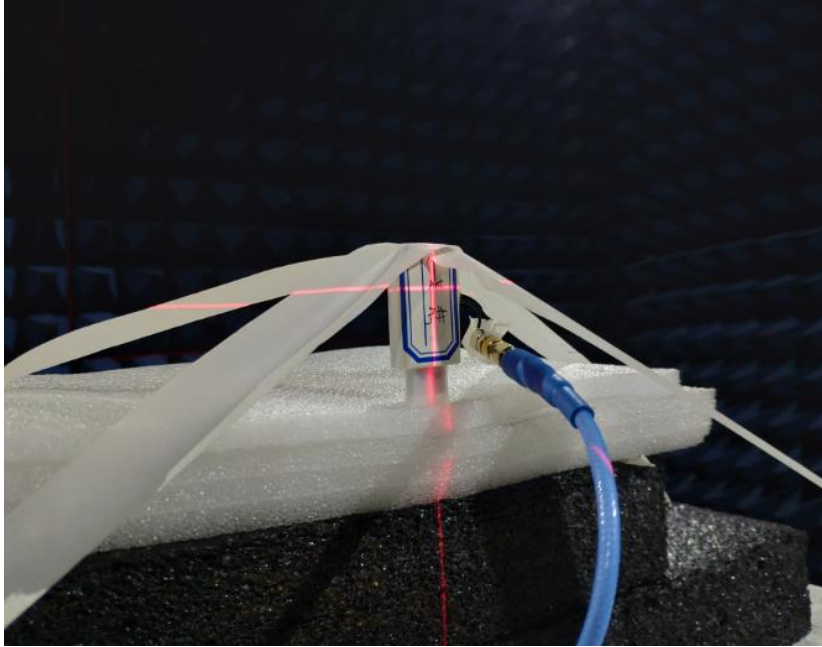
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3、 The result of the test

3.1 Test Environment



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3.2 Gain and Efficiency

备注	MG3-A		
Frequency	E Total. dB(dBi)	Efficiency()	Peak Gain (dBi)
2400MHz	1.14	53%	1.51
2402MHz	1.12	53%	
2404MHz	1.10	53%	
2406MHz	1.10	52%	
2408MHz	1.17	52%	
2410MHz	1.21	52%	
2412MHz	1.26	52%	
2414MHz	1.31	52%	
2416MHz	1.35	53%	
2418MHz	1.38	53%	
2420MHz	1.39	52%	
2422MHz	1.42	53%	
2424MHz	1.48	53%	
2426MHz	1.49	54%	
2428MHz	1.50	54%	
2430MHz	1.50	54%	
2432MHz	1.48	54%	
2434MHz	1.49	54%	
2436MHz	1.50	54%	
2438MHz	1.51	54%	
2440MHz	1.51	54%	
2442MHz	1.47	53%	
2444MHz	1.41	53%	
2446MHz	1.25	51%	
2448MHz	1.21	51%	
2450MHz	1.20	51%	
2452MHz	1.18	51%	
2454MHz	1.15	51%	
2456MHz	1.07	50%	
2458MHz	1.08	50%	
2460MHz	1.07	50%	
2462MHz	1.08	50%	
2464MHz	1.11	51%	
2466MHz	1.23	52%	
2468MHz	1.26	52%	
2470MHz	1.27	52%	
2472MHz	1.30	52%	
2474MHz	1.33	53%	
2476MHz	1.34	52%	
2478MHz	1.33	52%	
2480MHz	1.34	52%	

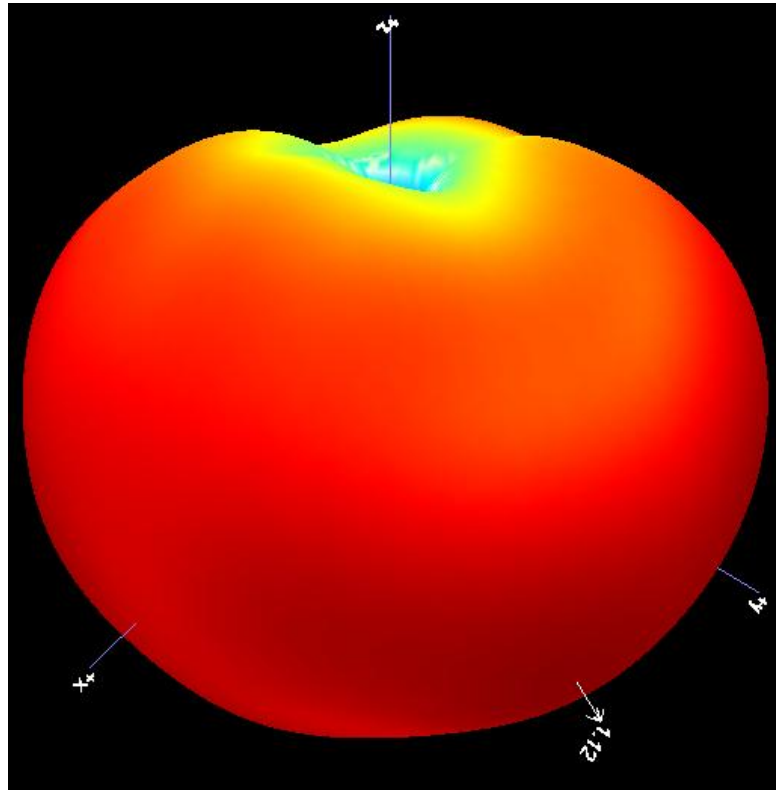
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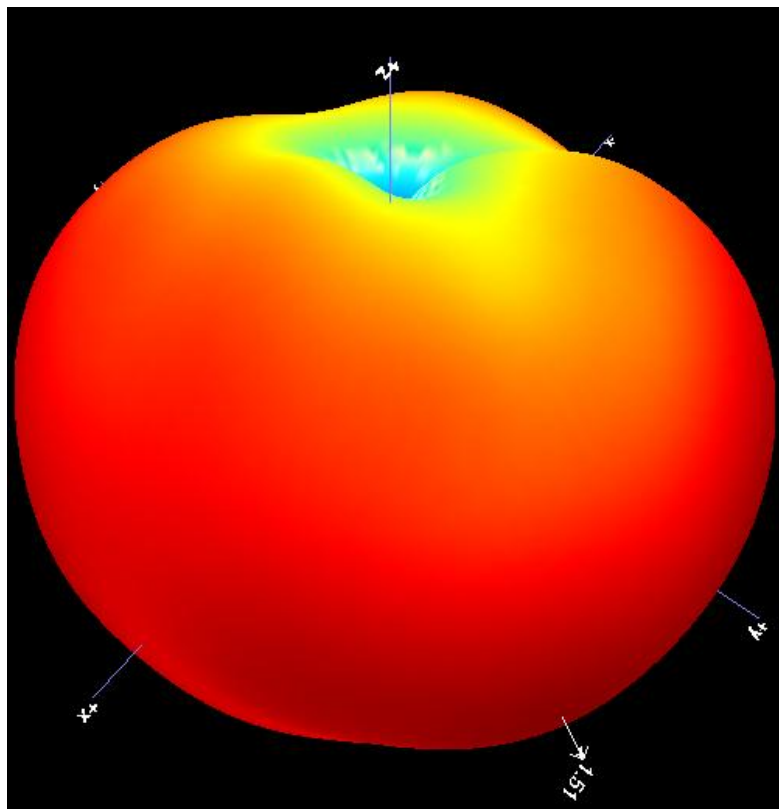
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3.3 3D Polar Plot



2402MHz



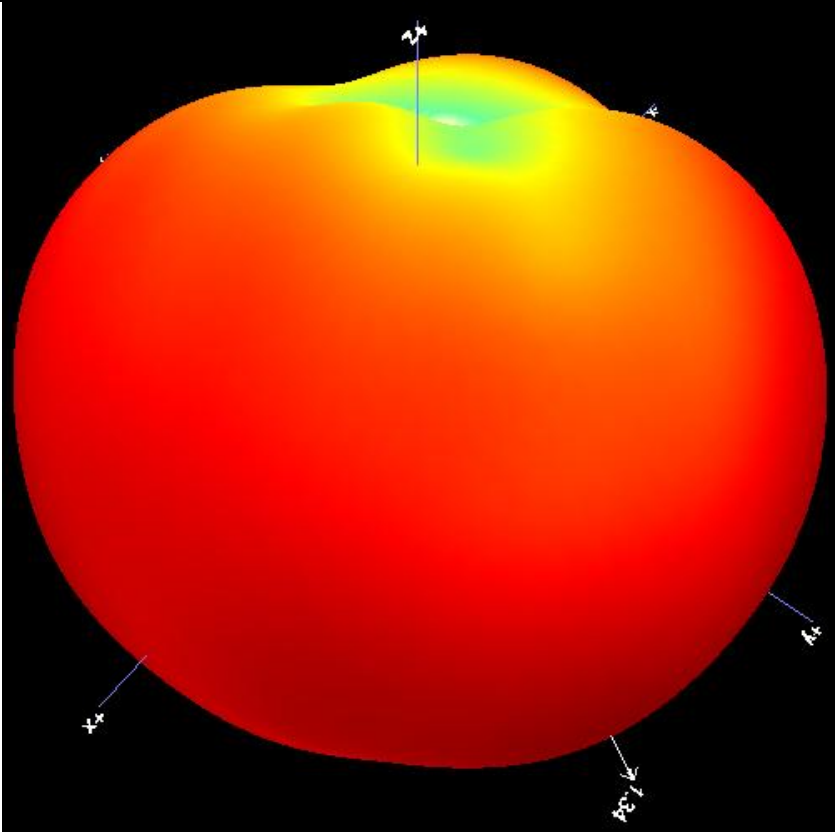
2440MHz

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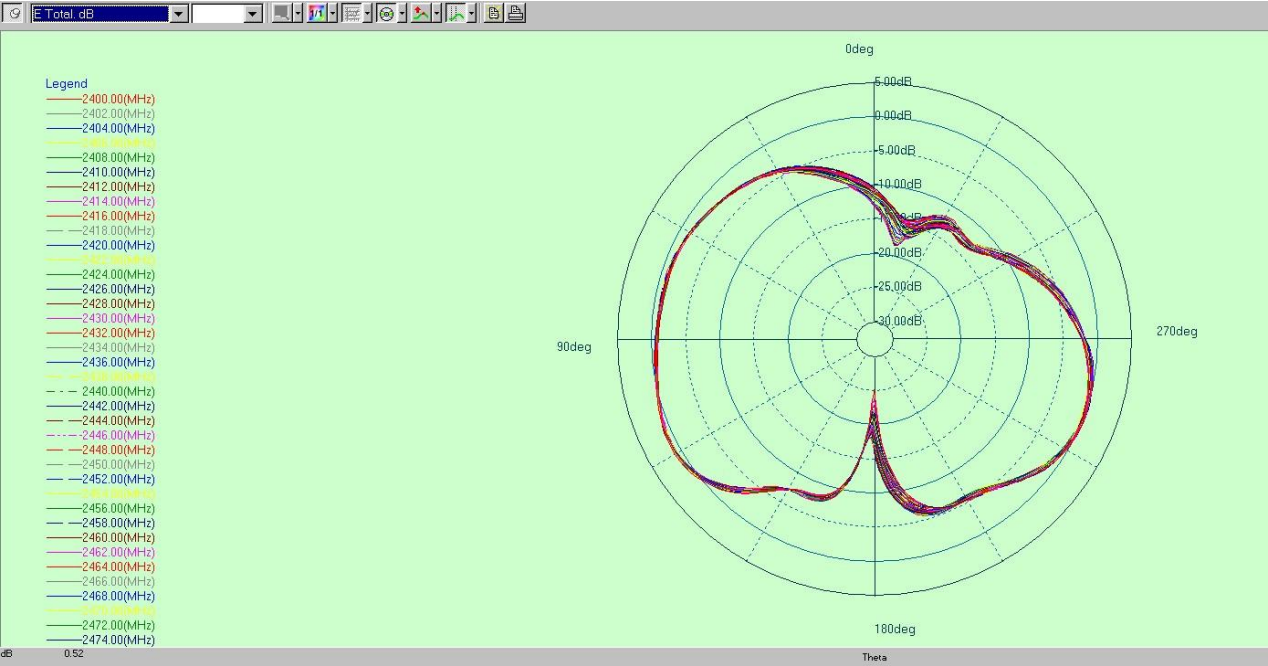
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2480MHz

3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0



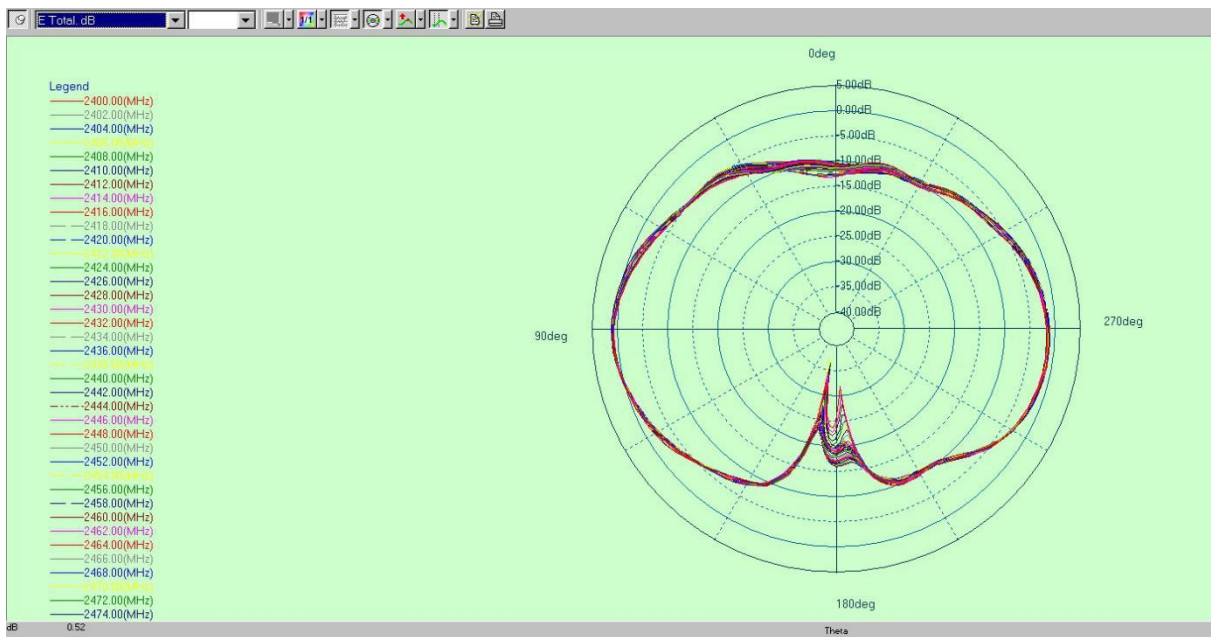
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(2) E2, YZ Plane, $\phi=90^\circ$



(3) H, XY plane, $\theta=90^\circ$

