

The Antenna Test Report

Y-YB-CR-115

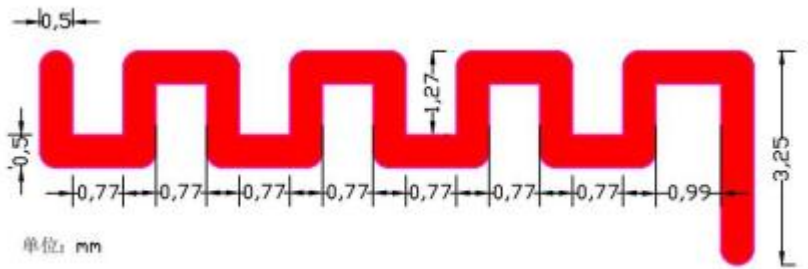
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Antenna Coding: ANT-BBNCNC20002
Antenna Type: PCB onboard Antenna
Model of the DUT: QS-PS
Antenna Manufacturer: Georama, Inc. DBA QualSights
1、Technical Specification

Electrical Specifications	
Frequency Range （MHz）	2400-2480
Input Impedance （Ω）	50
Return Loss （dB）	<-10
VSWR	<2
Peak Gain （dBi）	1.7
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	10.88*3.25
Radiator	Cuprum

2、The shape and size of the antenna



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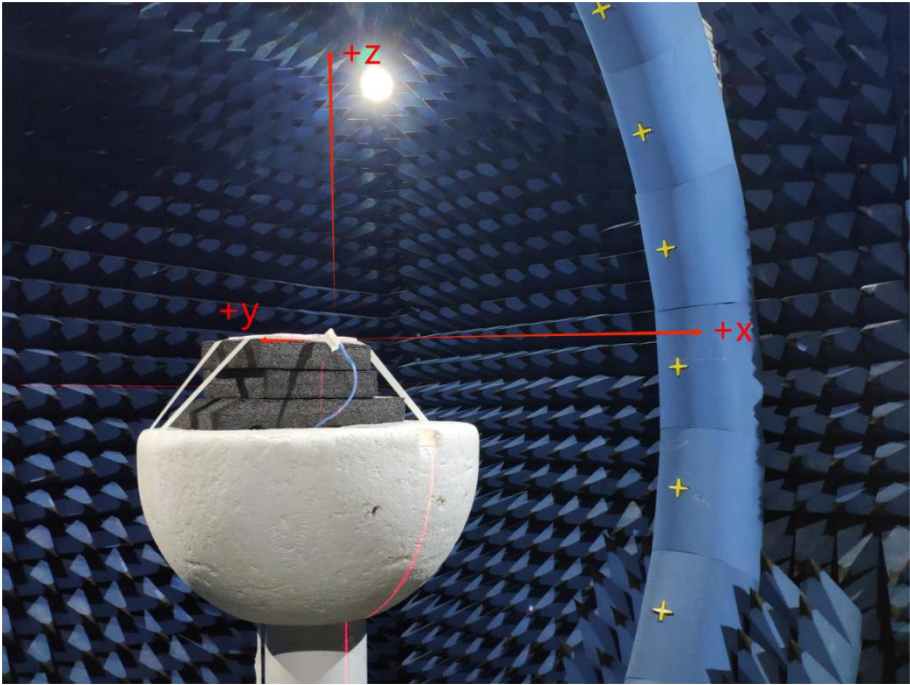
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3、 The result of the test

3.1 Test Environment



3.2 Gain and Efficiency

Frequency	Efficiency	Efficiency . dB	Gain dBi	Peak Gain
2400000000	42%	-3.750379657	1.3	1.7
2402000000	42%	-3.755228591	1.2	
2404000000	42%	-3.785281358	1.1	
2406000000	41%	-3.831156772	1.1	
2408000000	41%	-3.844931573	1.2	
2410000000	42%	-3.806069481	1.2	
2412000000	42%	-3.752756539	1.2	
2414000000	42%	-3.747285561	1.2	
2416000000	42%	-3.775062456	1.3	
2418000000	42%	-3.787927112	1.3	
2420000000	42%	-3.767191254	1.4	
2422000000	42%	-3.718853277	1.4	
2424000000	43%	-3.688572631	1.4	
2426000000	43%	-3.659524128	1.5	
2428000000	44%	-3.596480632	1.6	
2430000000	45%	-3.483546299	1.7	
2432000000	45%	-3.428871015	1.7	
2434000000	45%	-3.427112946	1.6	
2436000000	45%	-3.460131611	1.7	
2438000000	45%	-3.471365621	1.7	
2440000000	45%	-3.463889647	1.6	
2442000000	45%	-3.469451178	1.6	
2444000000	45%	-3.507583829	1.6	
2446000000	44%	-3.516989132	1.6	
2448000000	45%	-3.472473085	1.6	
2450000000	46%	-3.414938741	1.7	
2452000000	46%	-3.356192862	1.5	
2454000000	46%	-3.337542816	1.7	
2456000000	46%	-3.329518249	1.7	
2458000000	47%	-3.297106273	1.7	
2460000000	47%	-3.264817963	1.6	
2462000000	47%	-3.260135401	1.7	
2464000000	47%	-3.264167641	1.7	
2466000000	48%	-3.231801662	1.6	
2468000000	48%	-3.154384864	1.6	
2470000000	49%	-3.071308672	1.6	
2472000000	49%	-3.069714691	1.5	
2474000000	49%	-3.09057241	1.5	
2476000000	49%	-3.081754985	1.5	
2478000000	50%	-3.045193181	1.5	
2480000000	50%	-3.023299852	1.5	

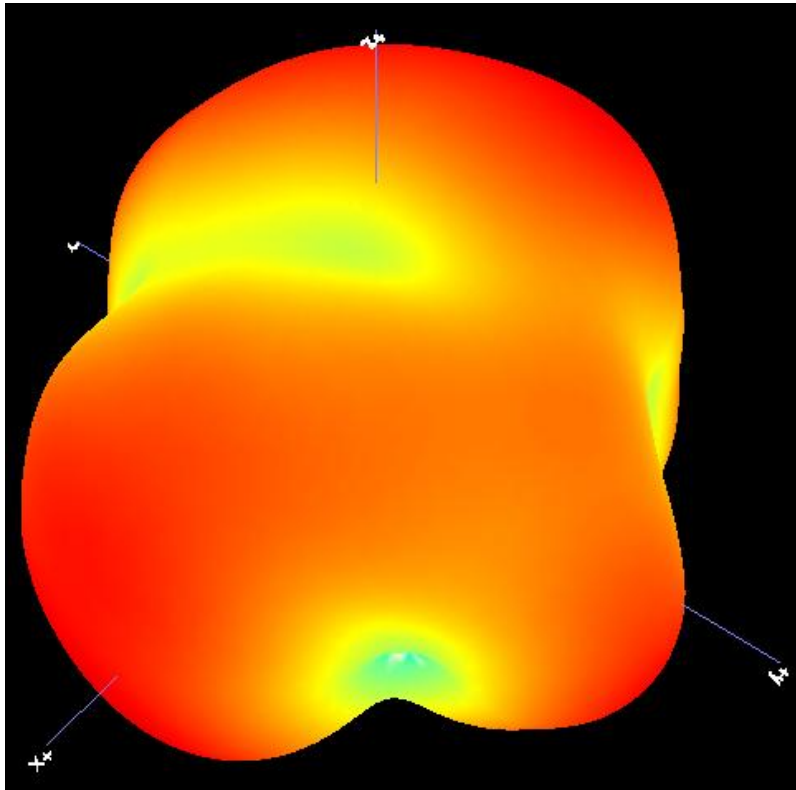
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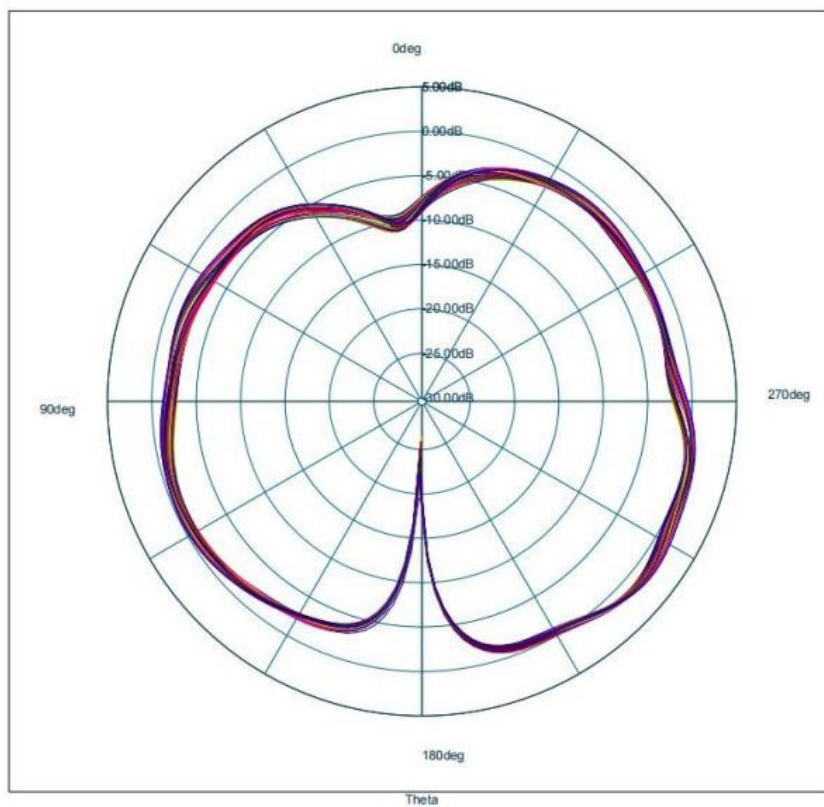
3.3 3D Polar Plot



3D polar

3.4 2D Radiation Pattern

(1) E1, XZ Plane, $\phi=0$



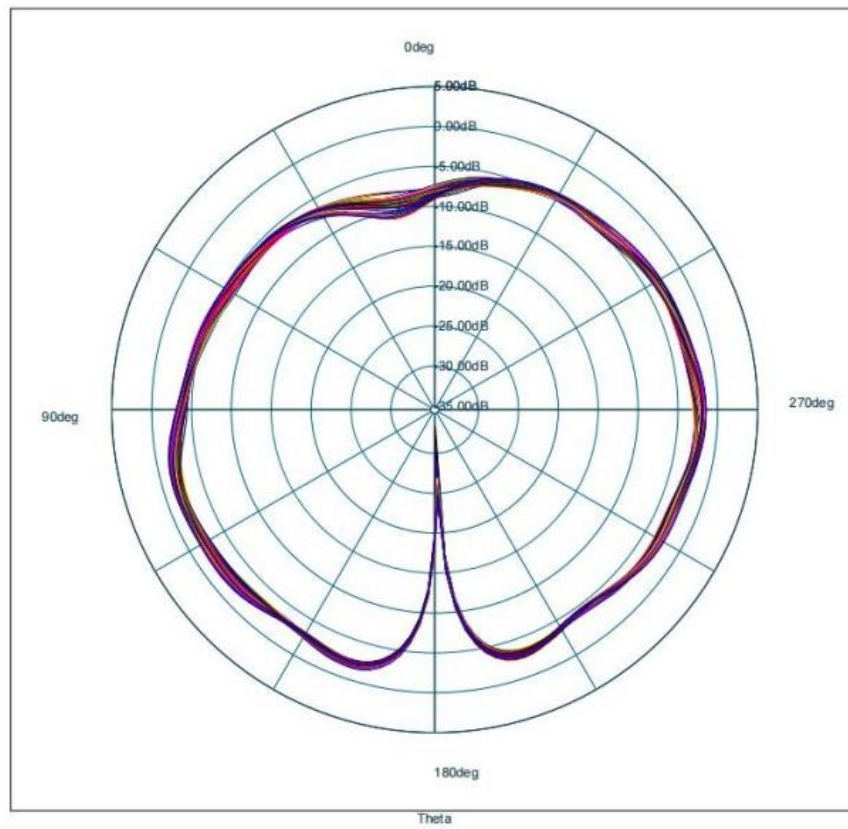
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(2) E2, YZ Plane, $\phi=90^\circ$



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

