



Jicheda 2.4G Bluetooth ceramic antenna commissioning report

Ceramic antenna

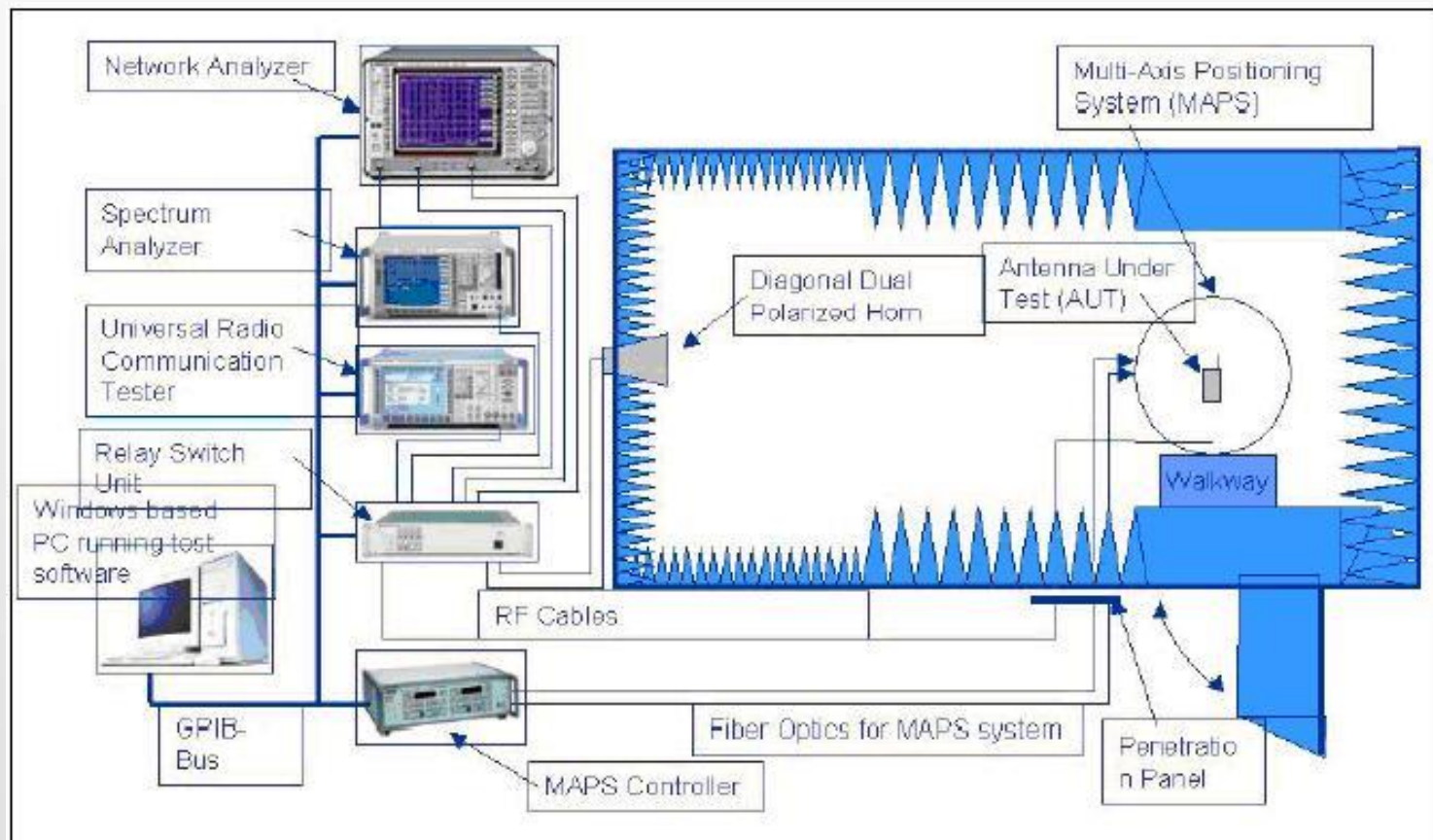
Frequency : 2400MHZ-2500MHZ

Topocom —The test report

www.topolink.com.cn

2025-1-13

1. Test environment: CTIA 743 darkroom, 8960/5515C, the phone is placed at the turntable 4 meters away from the standard horn antenna



2. Machine picture:



Antenna type and size

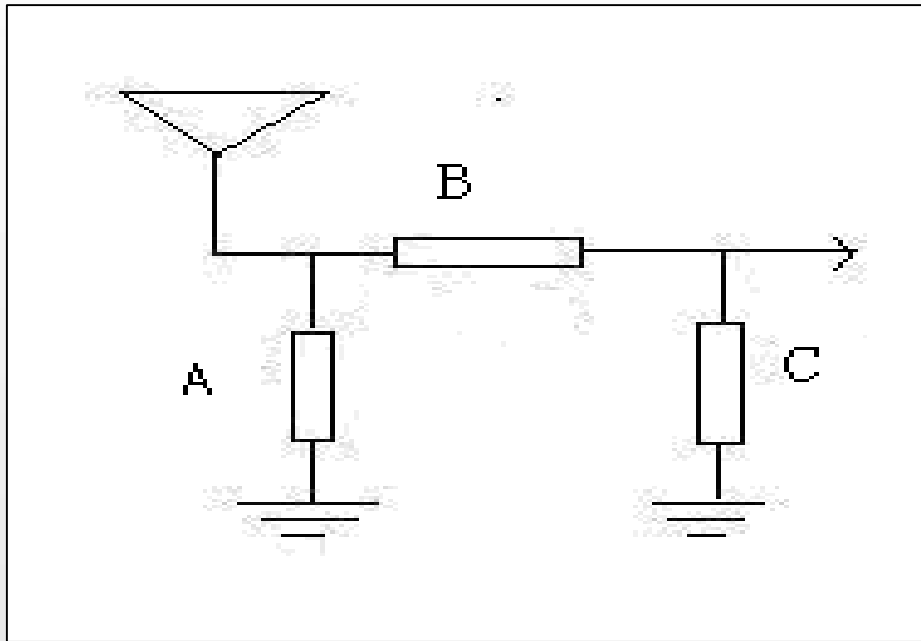


产品型号

CS-2450-31-SE-B

3.2*1.6*0.55mm

3, matching circuit.
The matching circuit is unchanged.



	A	B	C
Component value		5.1nH	2nH

4, PY-X5-001 machine antenna S11, ReturnLoss, Smith circle figure:

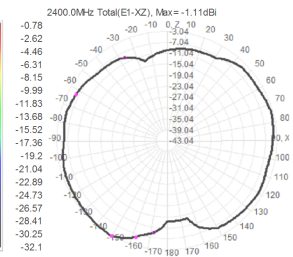
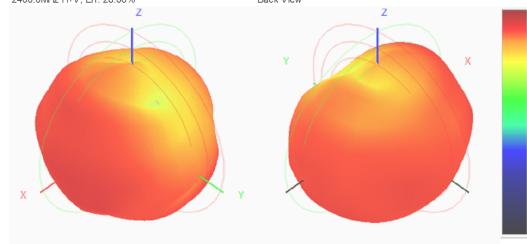


5, machine antenna efficiency gain:

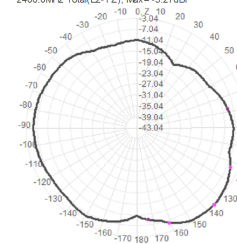
Freq (MHz)	Effi (%)	Gain (dBi)
2400	28.06	-1.11
2410	28.09	-2.02
2420	25.57	-2.89
2430	26.38	-3.32
2440	27.71	-3.41
2450	27.74	-3.37
2460	27.71	-2.95
2470	26.55	-2.46
2480	30.08	-1.71
2490	31.93	-1.37
2500	30.78	-1.12

2400.0MHz H+V, Eff: 28.06%

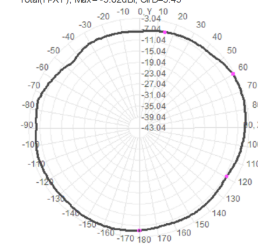
Back View



2400.0MHz Total (E2-YZ), Max=-3.27dBi

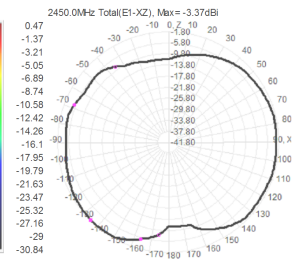
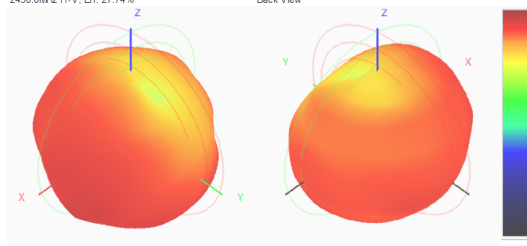


Total(H+V), Max=-3.62dBi, CrD=5.45

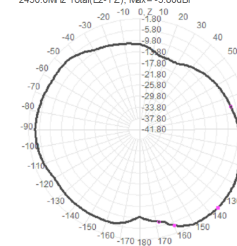


2450.0MHz H+V, Eff: 27.74%

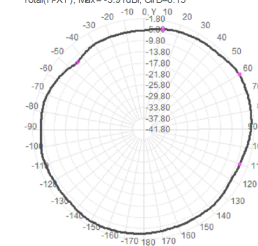
Back View



2450.0MHz Total (E2-YZ), Max=-3.80dBi

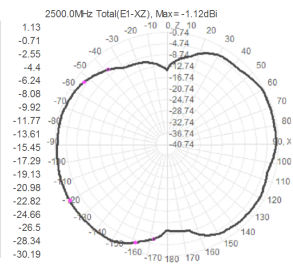
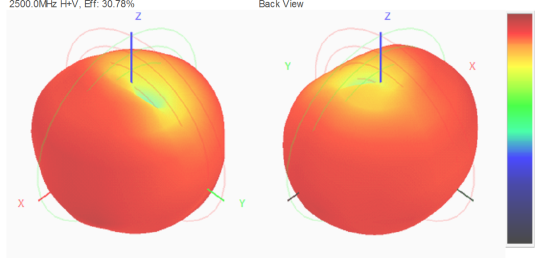


Total(H+V), Max=-3.91dBi, CrD=6.15

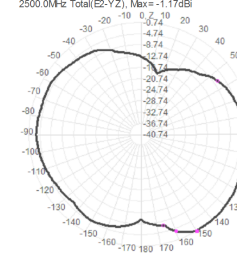


2500.0MHz H+V, Eff: 30.78%

Back View



2500.0MHz Total (E2-YZ), Max=-1.17dBi



Total(H+V), Max=-1.74dBi, CrD=3.42

