

中导未来科技(深圳)有限公司

Intermediate-range Future Technology (Shenzhen) Co., LTD

E型天线测试报告

E antenna test report

Model:PCB Antenna-A

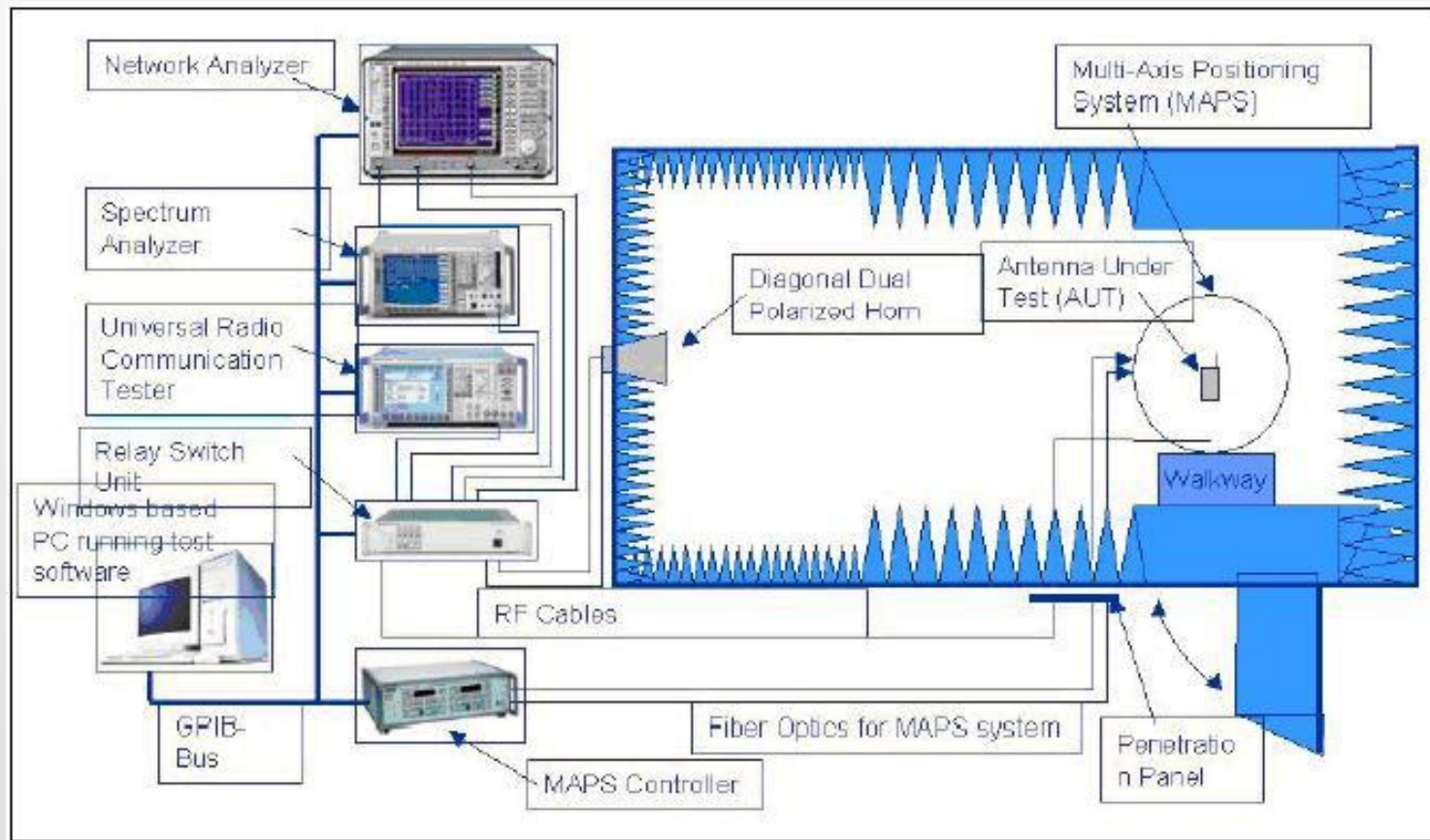
调频:2.4GHz

Topocom —The test report

2021-08-17

## 一、测试环境：CTIA 743暗室，8960/5515C，E型wifi天线背向放置离标准喇叭天线3米转台处

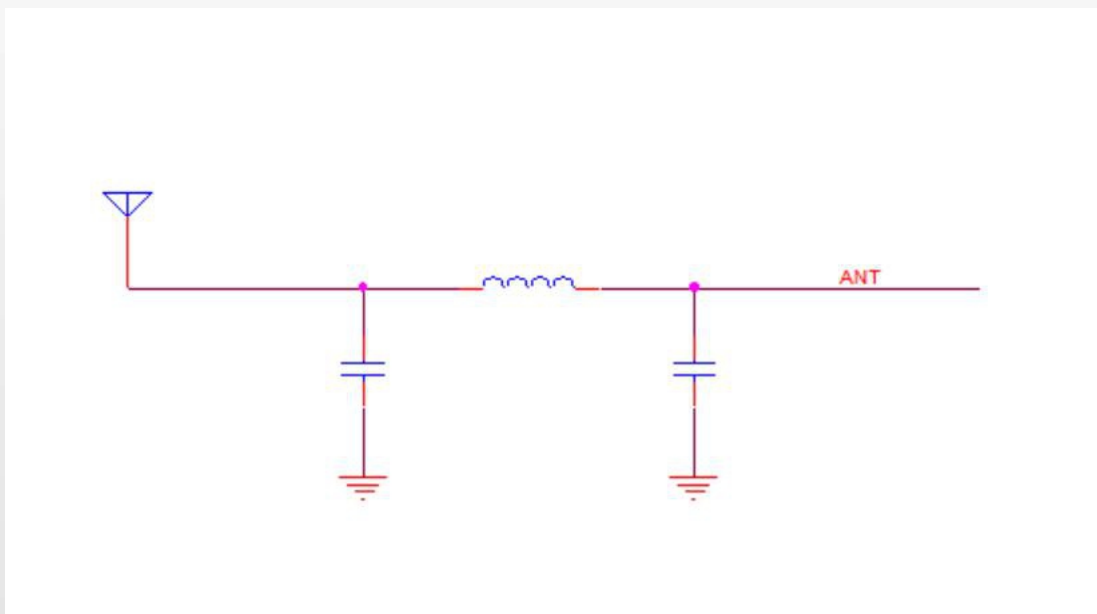
Test Environment: CTIA 743 darkroom, 8960/5515C, E wifi antenna back placed 3 meters away from the standard horn antenna turntable



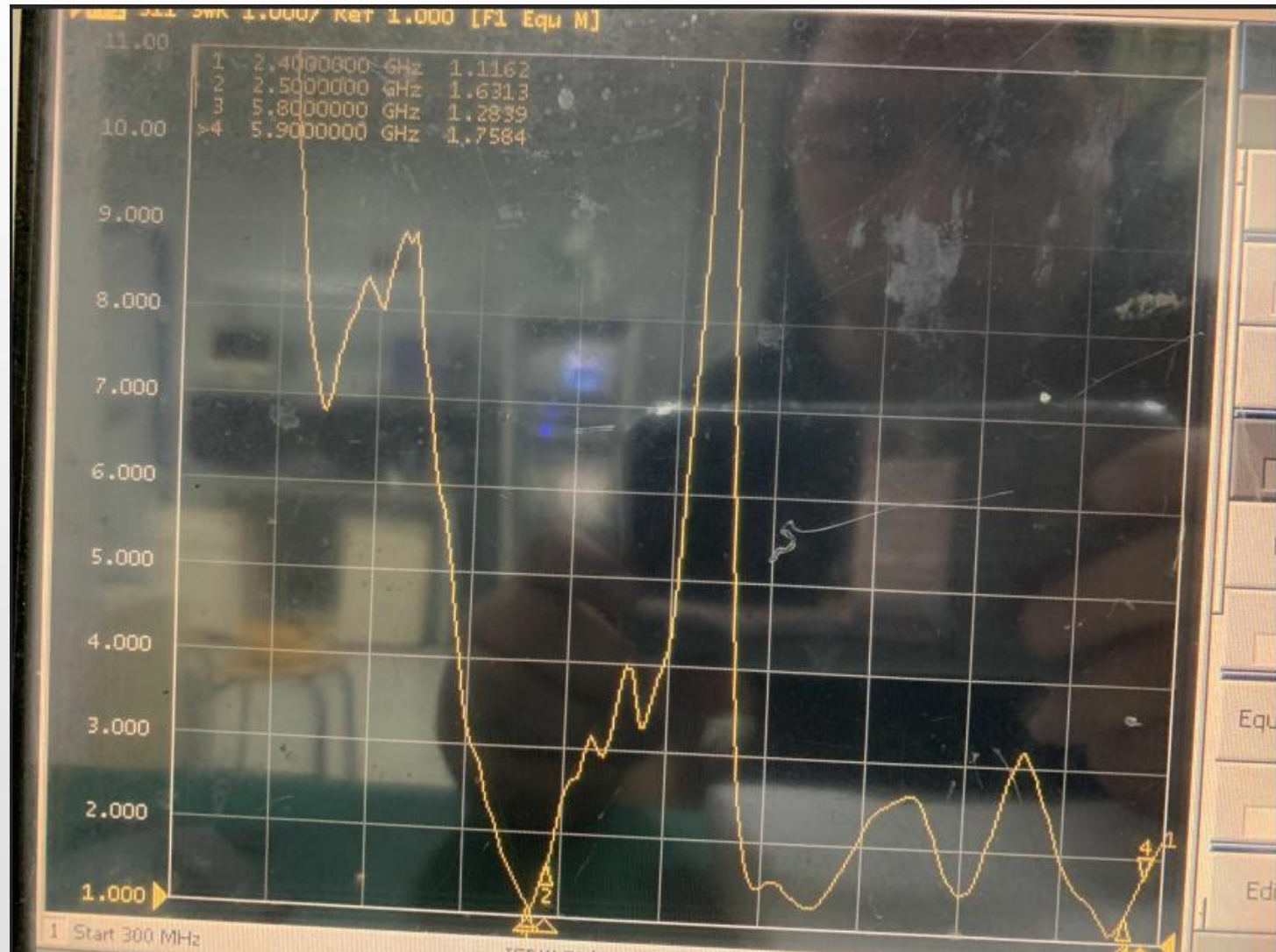
## 二、匹配电路。Matching circuit

只测试天线，未增加匹配电路。

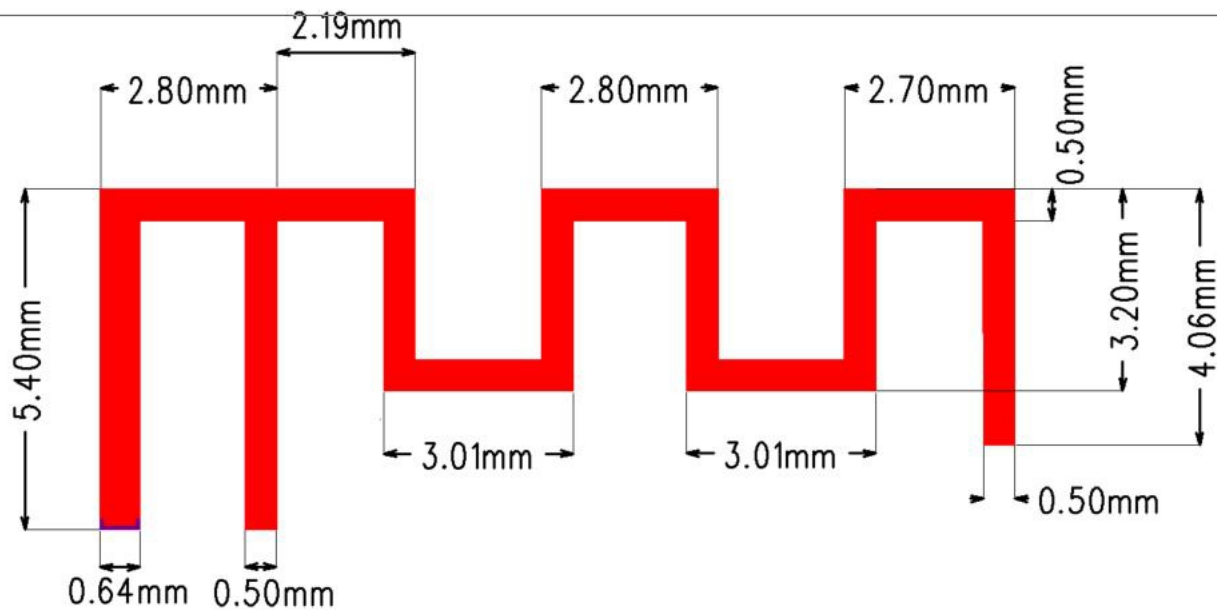
Only test antenna, did not increase the matching circuit.



驻波比 (SWR) :



E型天线尺寸:  
Antenna size:



PCB E型天线辐射数据:

PCB E antenna radiation data:

| Passive Test For WIFI |             |              |               |               |            |            |             |             |                |                |
|-----------------------|-------------|--------------|---------------|---------------|------------|------------|-------------|-------------|----------------|----------------|
| Freq<br>(MHz)         | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) | Attenut<br>Hor | Attenut<br>Ver |
| 2400                  | 43.32       | -3.63        | 2.07          | -0.08         | 22.696     | 20.627     | 2.07        | -14.98      | 50.98          | 51.66          |
| 2410                  | 38.68       | -4.13        | 1.48          | -0.67         | 20.34      | 18.34      | 1.48        | -14.22      | 50.3           | 51.33          |
| 2420                  | 40.12       | -3.97        | 1.53          | -0.62         | 21.131     | 18.985     | 1.53        | -14.22      | 50.35          | 51.37          |
| 2430                  | 36.17       | -4.42        | 0.99          | -1.16         | 18.964     | 17.205     | 0.99        | -16.03      | 50.82          | 51.91          |
| 2440                  | 39.81       | -4           | 1.33          | -0.82         | 20.882     | 18.931     | 1.33        | -18.47      | 50.21          | 51.68          |
| 2450                  | 38.63       | -4.13        | 1.13          | -1.02         | 20.252     | 18.38      | 1.13        | -22.47      | 50.71          | 51.95          |
| 2460                  | 41.04       | -3.87        | 1.35          | -0.8          | 21.442     | 19.594     | 1.35        | -25.74      | 51.26          | 52.86          |
| 2470                  | 36.78       | -4.34        | 0.83          | -1.32         | 19.078     | 17.697     | 0.83        | -24.39      | 51.08          | 53.04          |
| 2480                  | 39.15       | -4.07        | 1.07          | -1.08         | 20.095     | 19.058     | 1.07        | -22.06      | 51.31          | 53.01          |
| 2490                  | 35.46       | -4.5         | 0.55          | -1.6          | 17.911     | 17.552     | 0.55        | -21.15      | 51.8           | 53.95          |
| 2500                  | 35.49       | -4.5         | 0.43          | -1.72         | 17.654     | 17.835     | 0.43        | -20.45      | 51.02          | 53.11          |

