

Testing Report

Customer: Dellking

Project name: E2

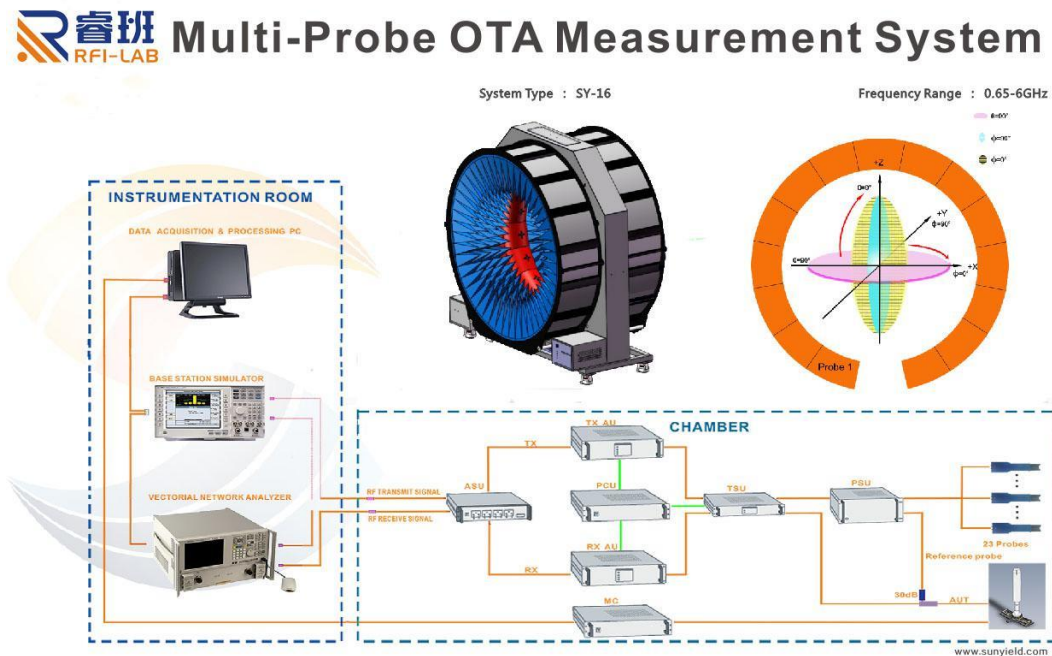
Testing Date: 2018-6-28

Testing Location: Rui Ban Laboratory

Testing Equipment: 3D Darkroom, Agilent5071B

Testing sample: 2.4G Bluetooth Antenna

1. Schematic diagram of microwave darkroom test.



2. Project Description

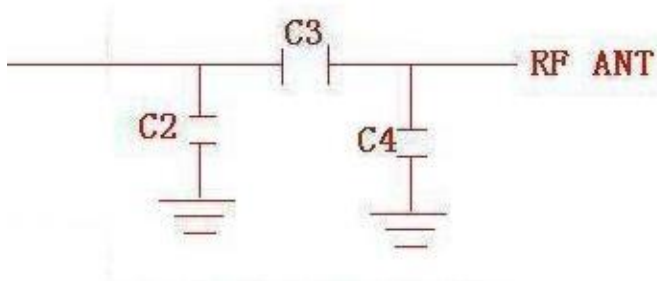
This report summarizes the electrical performance test results of the Dellking E2 project's 2.4-2.5GHz W Bluetooth antenna, including the antenna's S11 parameter, gain, efficiency, and 2D directional pattern

3. Item picture

Confidential

4. Antenna structure dimension diagram and precautions for mass production assembly.

5. Matching Instructions (N/A)

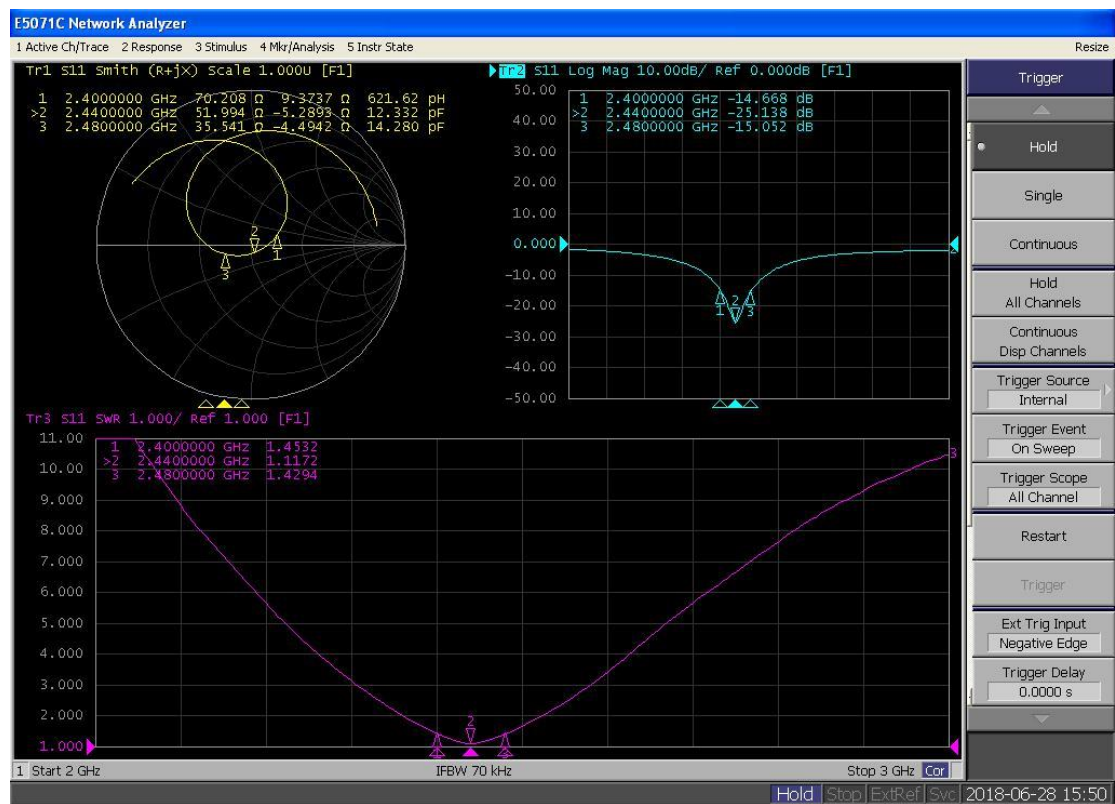


6. Passive Antenna Test Data:

6.1 Antenna network analyzer test

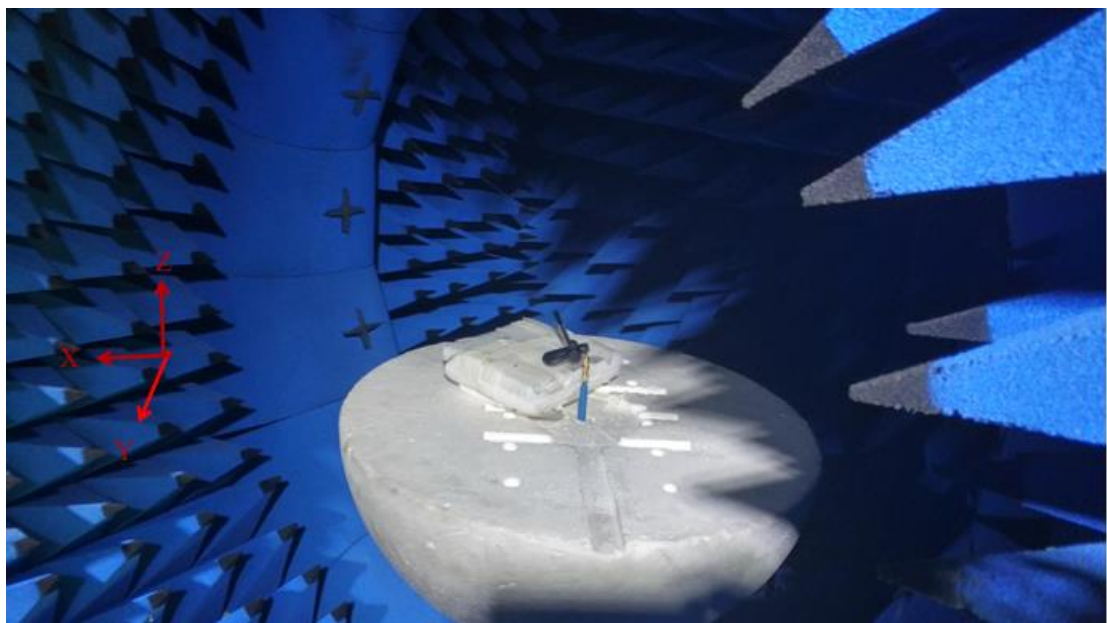


6.2 S11 Parameter data:



6.3 Antenna Anechoic Chamber Test

6.3.1 Physical placement diagram

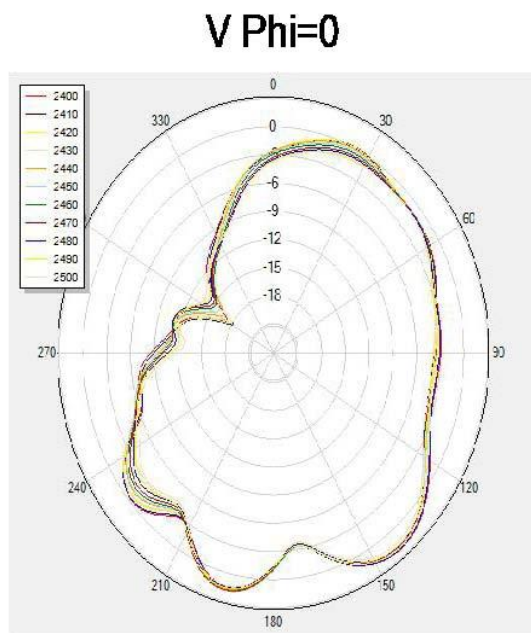


6.3.2 Gain and Efficiency

频率Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
增益Gain/dBi	2.54	2.49	2.29	2.24	2.11	2.17	2.09	2.05	1.79	1.82	1.45
效率efficiency/%	51%	52%	52%	52%	52%	53%	51%	50%	51%	50%	51%

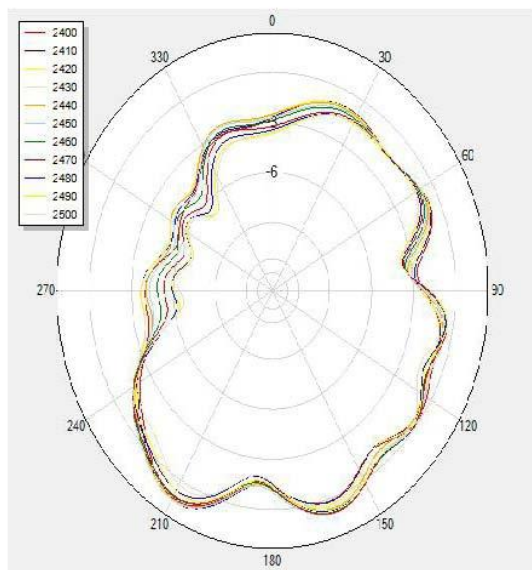
6.3.3 Directional diagram (2.4GHz)

(1) X-Z:



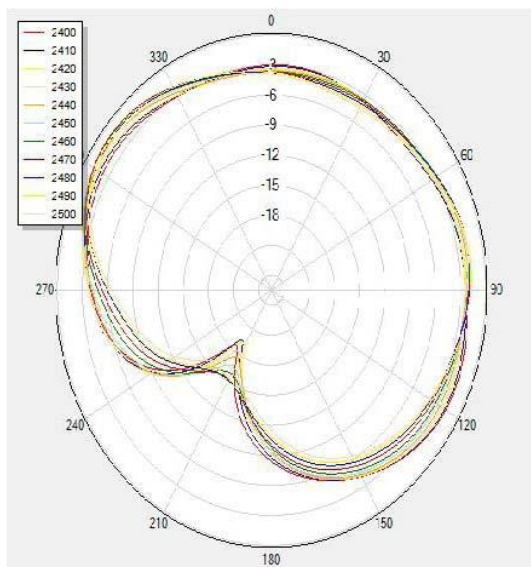
(2) Y-Z

V $\Phi=90$

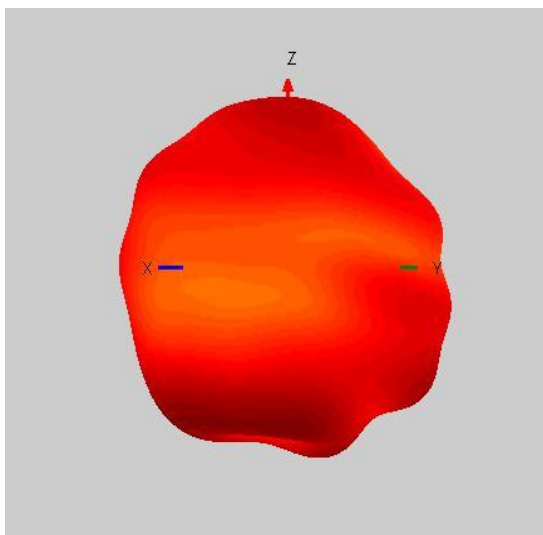


(3) X-Z

H $\Theta=90$



2.45GHz 3D Directional diagram:



7. Project Summary:

In summary, this is the complete passive testing of the Dellking E2 headphones. Due to the good clearance around the antenna and only one button, the antenna effect is quite ideal. As can be seen from the above test data, the VSWR and return loss are good, the directional pattern is relatively balanced, the efficiency is high, and the gain is excellent. It belongs to an excellent level.

Shenzhen B&T Technology Group Co., Ltd.

2018-6-28

