

Antenna Test Report

Customer	/
Project	Carbon蓝牙天线
Antenna Revision	Ver1.2
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manufacturer	深圳市合扬智能卡
Date:	2024/05/24

Purpose

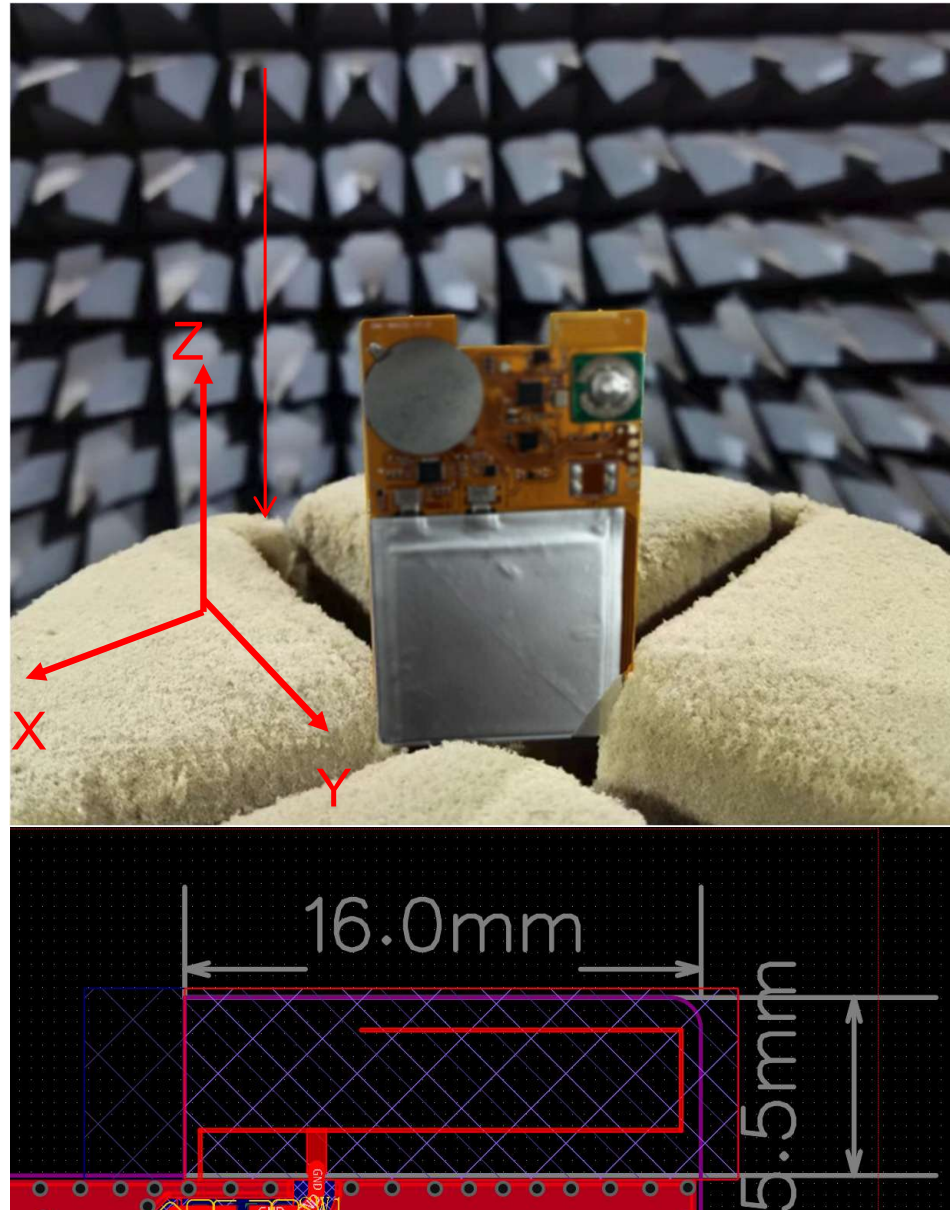
This report is to measure the performance of antenna OM-WXCD-V1.2 蓝牙天线. The antenna operating frequency at 2400-2500MHz All test data are showed as below.

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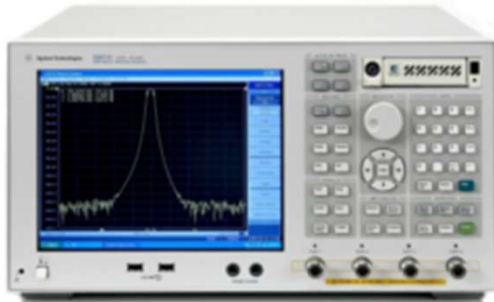
1. Product Overview & Dimension

Antenna

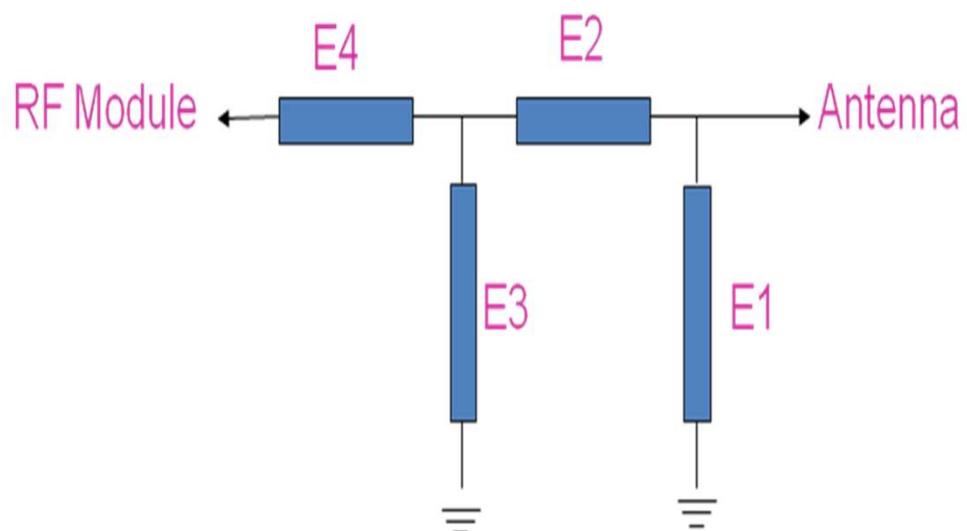


2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



3. Antenna Matching Network

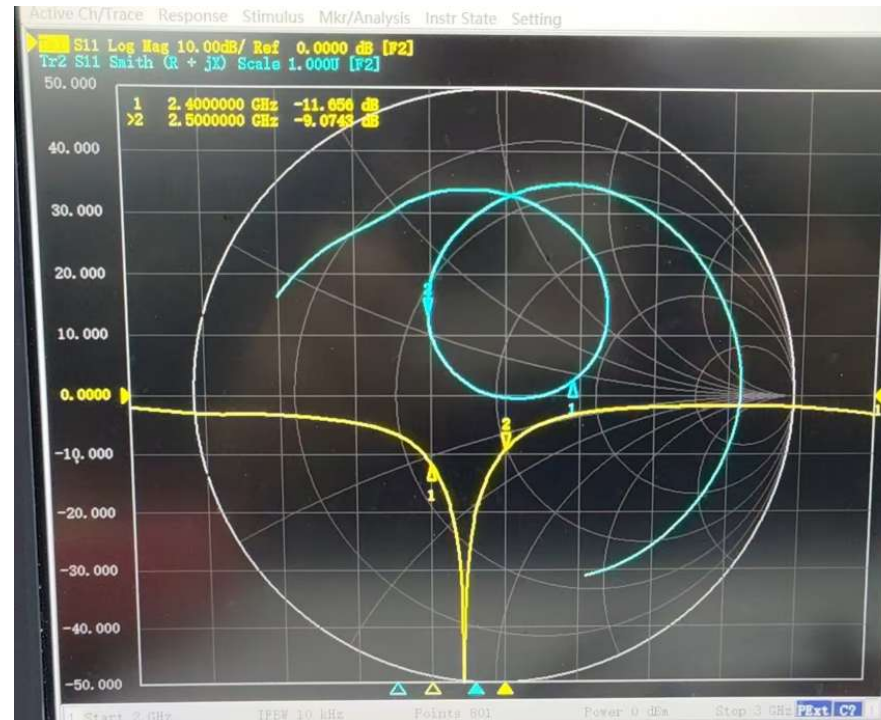


Element	Value
E1	0.5pf
E2	2.2nh
E3	N/A
E4	33pf

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4. Test Result

4.1 S11 Parameter-VSWR

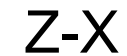


Frequency	2400	2450	2500
S11	-11.6	-40.2	-9.07

4. Test Result

4.2 Gain & Efficiency

frequency	Gain dbi	efficiency
2400	1.6259	0.5477
2410	1.6492	0.5561
2420	2.0477	0.5912
2430	2.0259	0.5919
2440	2.089	0.5741
2450	2.0095	0.5761
2460	1.9319	0.5983
2470	1.9542	0.5656
2480	1.9746	0.5227
2490	1.5673	0.5021
2500	1.5574	0.5128



X-Y



***Thank
you!***