



ONE PLUS ONE
Wireless Communication

深圳市一加一无线通讯技术有限公司

承认书

APPROVAL SHEET

客户 Customer	电小酷
项目名 Project	SW2-BK
料号 Part NO.	
规格 Specification	WIFI Antennas

APPROVAL			
OnePlusOne:			
RF Check	ME Check	QC Check	Confirm By
PASS	PASS	PASS	
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CONFIDENTIAL Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.		

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1 Antenna description

It summarize Main and WIFI antennas for project SW2-BK. WIFI antenna's frequency band is 2400-2500MHz. WIFI antenna's type is IFA.

1.1 Part number

Part number of antenna: SW2-BK-WIFI

1.2 Antenna pictures



2 Electrical Performance

2.1 Specification

WIFI	
Frequency Range	2400MHz~2500MHz
Return Loss	<-5
Efficiency	>35%

2.2 Measurement Set-up

2.2.1 VSWR and Return Loss

VSWR measurements (S_{11}) were performed using an Agilent ENA series Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

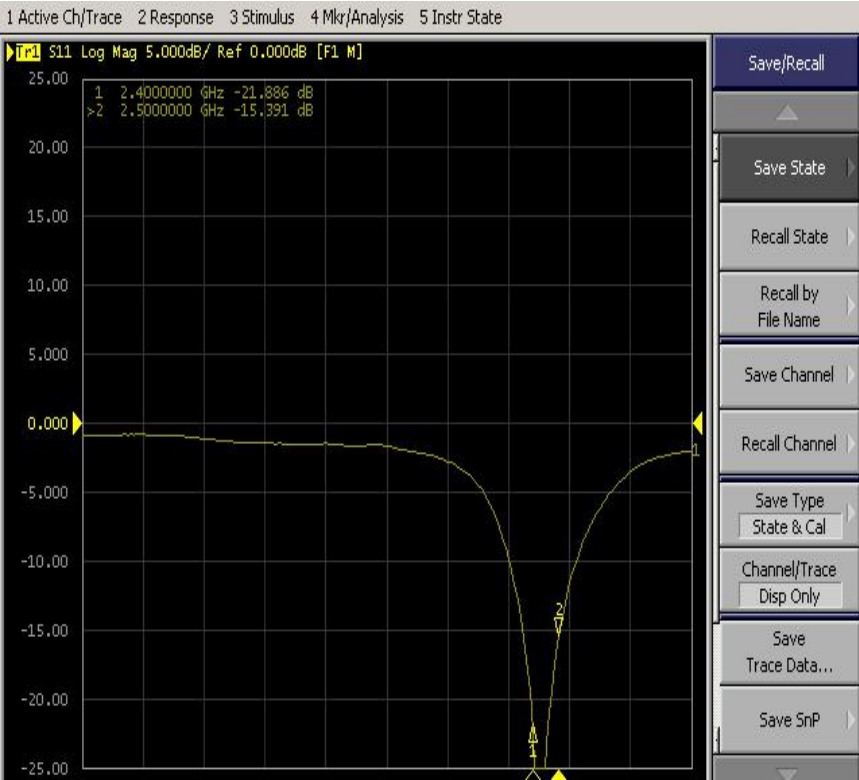
2.2.2 Efficiency and Gain

The gain of the antenna was measured in OPO's 3D anechoic chamber in Shenzhen, China. The chamber is a ETS system capable of doing tests from 380MHz to 6GHz. Coaxial chokes on the feed cable were used to mitigate surface currents during passive tests. The measurement results are calibrated using dipole standards. For TRP and TIS the chamber uses a 8960 / MT8820C to establish the connection with the mobile device and read the power.

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3 Reference measurement data

3.1 Passive

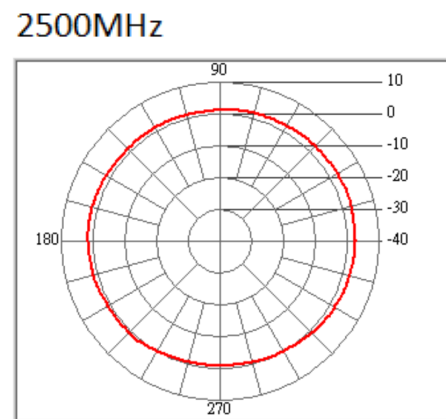
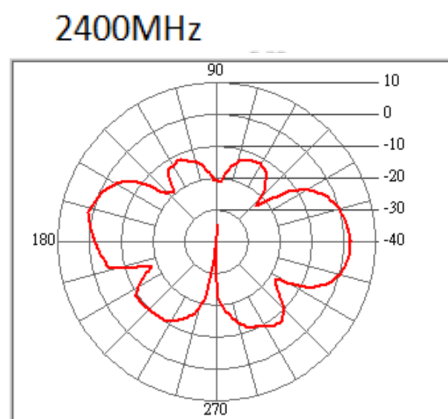


WIFI Return Loss

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3.2 Active

Frequency: 2400-2450MHz		
Fre.(MHz)	Efficiency(%)	Gain(dBi)
2400	49.43%	2.00
2500	49.25%	1.95



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4.1 Drawings

