



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	
项目名 Project	SW-1U
料号 Part NO.	
规格 Specification	BT Antennas

APPROVAL			
OnePlusOne:			
RF Check	ME Check	QC Check	Confirm By
Customer:			
EE Check	PM Check	QC Check	Confirm By

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CONFIDENTIAL Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.		

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1 Antenna description

It summarize for project R23.BT antenna's frequency band is 2400-2500MHz. BT antenna's type is IFA.

1.1 Part number

Part number of antenna:
Antennapictures

1.2 Antenna pictures



2 Electrical Performance

2.1 Specification

BT	
Frequency Range	2400MHz~2500MHz
Return Loss	<-5
Efficiency	>22%

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.

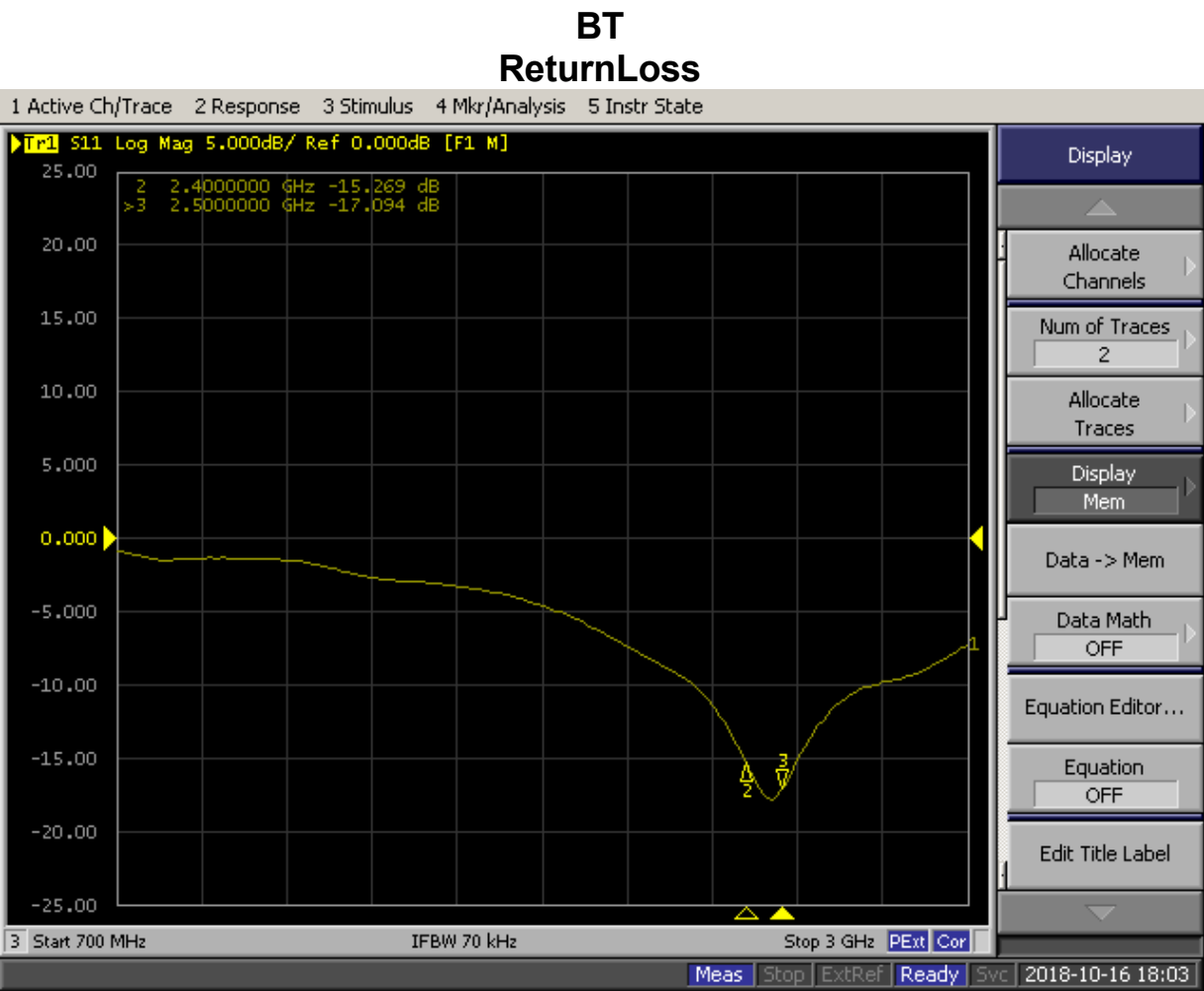
2.2.2 Efficiency and Gain

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

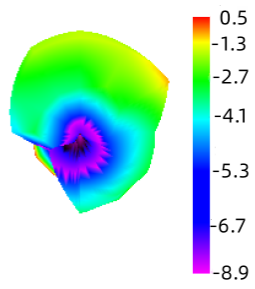


3.2 Active

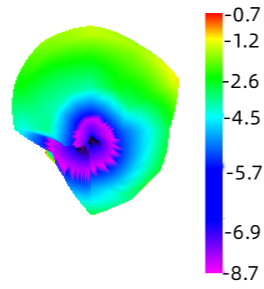
Passive Test For BT			Gain (dBi)
Freq (MHz)	Effi (%)	Effi (dB)	
2400	20.11	-6.97	0.58
2410	19.79	-7.04	-0.74
2420	22.47	-6.48	-0.85
2430	20.84	-6.81	-0.68
2440	20.91	-6.80	-0.69
2450	19.74	-7.05	-1.16
2460	23.83	-6.23	0.3
2470	20.19	-6.95	-2.03
2480	20.6	-6.86	-1.41
2490	20.43	-6.90	-2.5
2500	19.89	-7.01	-1.73

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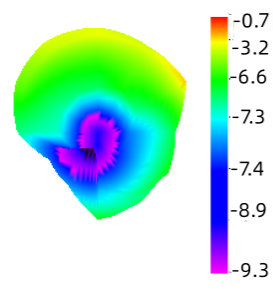
2400.000MHz



2410.000MHz



2420.000MHz



4 Mechanical description

4.1 Drawings

