



ONE PLUS ONE
Wireless Communication

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承认书

APPROVAL SHEET

客户 Customer	爱保护
项目名 Project	RN02 BT Antennas
料号 Part NO.	
规格 Specification	BT Antennas

Project:RN02	Author: Haiou.Zhu	File Name: RN02_APP_A.doc
Date: 2026-3-18		
Revision:	A	
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APPROVAL			
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Date:	Revision:	Updates and changes:	Issued by:
2026-4-18	A	Initial sheet	Haiou.Zhu

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1 Antenna description

It summarize **BT** antennas for project RN02 .**BT** antenna's frequency band is **2400-2500MHz**. **BT** antenna's type is 单级

1.1 Part number

Part number of antenna: **RN02 BT Antennas**

2 Electrical Performance

2.1 Specification

BT	
Frequency Range	2400MHz~2500MHz <-5 >15%
Return Loss	
Efficiency	

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.

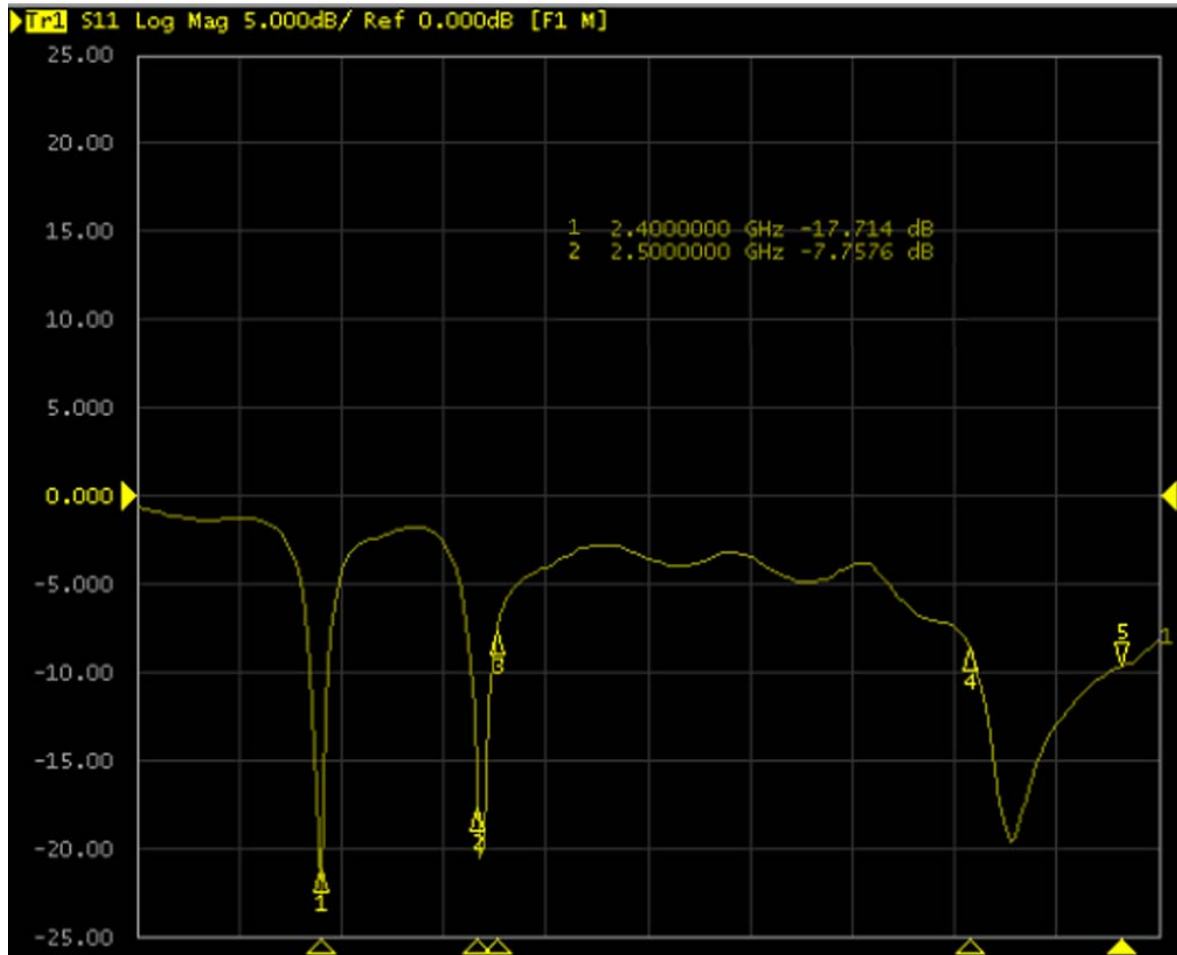
2.2.2 Efficiency and Gain

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.

3 Reference measurement data

3.1 Passive

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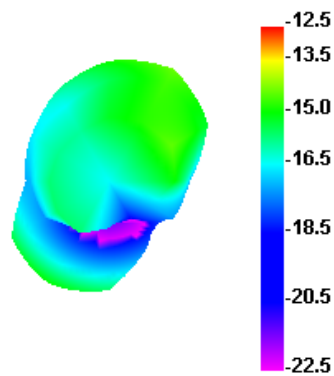
3.2 Active

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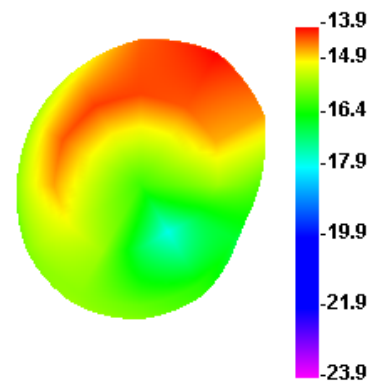
BT

Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	15.52	-8.09	-12.5
2410	15.9	-7.99	-11.7
2420	16.21	-7.90	-13.82
2430	16.67	-7.78	-12.78
2440	17.14	-7.66	-15.09
2450	18.24	-7.39	-14.61
2460	18.27	-7.38	-14.38
2470	17.03	-7.69	-15.14
2480	16.54	-7.81	-13.33
2490	15.98	-7.96	-15.06
2500	15.36	-8.14	-13.94

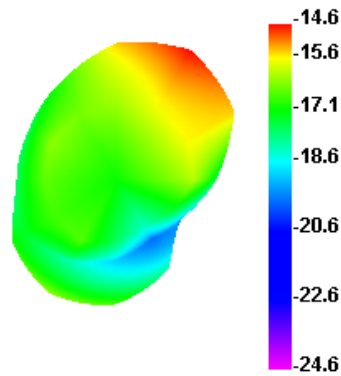
2400.000MHz



2500.000MHz



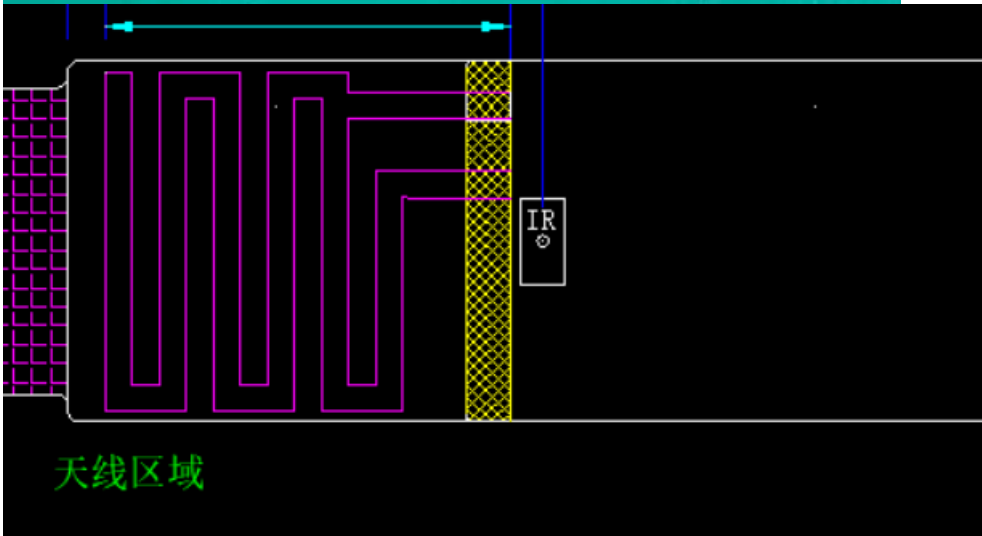
2450.000MHz



4 Mechanical description

4.1 Drawings

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