顶设科技 i-Top	H57-R	RoHS Compliant
Date of Issue: 2024-10-18		dipole antenna
Page (1) of (6)	i-Top Drawing # 20241018	Revision #: Initial Release

Source Control Drawing

Part Description:	Bluetooth TWS headset
客户料号:	
客户规格描述:	
iTD Part Number:	HT-H57-R-V3.0
iTD Software version	
iTD Hardware version	HT-H57-R-V3.0

Customer Approval (Please return this copy as a certification of your approval)				
Approved by:				
Approval Date:				
Company Seal:				

PROPRIETARY NOTICE	iTD Contact Information:
These documents, and the contained information herein, are	Eric Lin 林先生
proprietary and are not to be reproduced, used or disclosed to	Mb: 15060807099
others for manufacture or for any other purpose, except as	Email: ljw@itdtek.com
specifically authorized, in writing, by iTD Corporation.	Add: RongChenDaChuang building room 302, Dabao Road, Xin 'an Street 28, Bao An District, Shenzhen City

	项次	日期	版次	修订说明	备注
--	----	----	----	------	----

顶设相技 i-Top	H57-R	RoHS Compliant
Date of Issue: 2024-10-18		dipole antenna
Page (2) of (6)	i-Top Drawing # 20241018	Revision #: Initial Release

1	2024. 8. 28	V1.0		首次发	发行	
2	2024. 10. 12	V3.0		优化天约	线走线	

		4	编制	工程	审核	

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of HT-H57-R-V3 The HT-H57-R-V3 antenna is a **BT** Band . The antenna Picture and assembly are shown below.

顶设科技 i-Top	H57-R	RoHS Compliant	
Date of Issue: 2024-10-18		dipole antenna	
Page (3) of (6)	i-Top Drawing # 20241018	Revision #: Initial Release	

FPC Antenna picture & assembly picture

2.Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber , and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

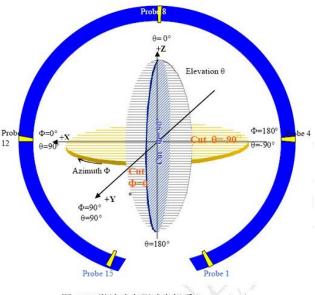
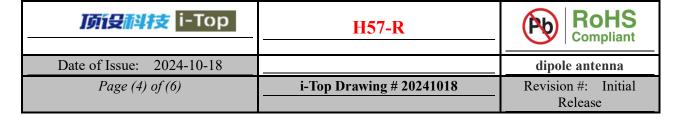


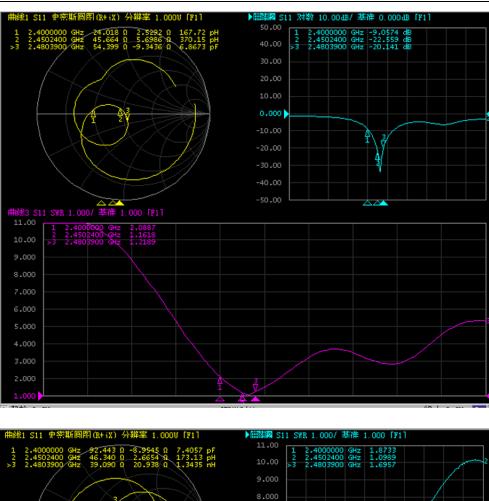
图 4 3D 微波暗室测试坐标系(back view)

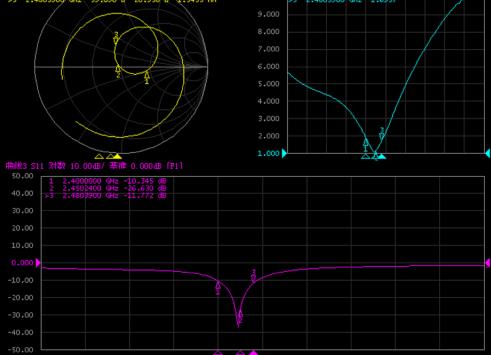
3. Electrical Specification

3-2 Passive S11 parameter

Measuring Method is a 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.





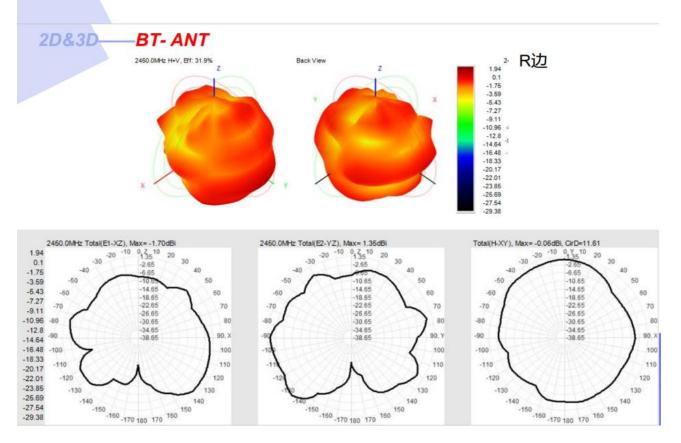


顶设科技 i-Top	H57-R	RoHS Compliant
Date of Issue: 2024-10-18		dipole antenna
Page (5) of (6)	i-Top Drawing # 20241018	Revision #: Initial Release

Gain & Efficiency—BT-ANT(R)

Frequenc y (MHz)	Peak GAIN (dBi)	Efficiency (%)
2400	-0.20	20.54
2410	0.08	22.39
2420	1.69	25.43
2430	2.39	29.22
2440	2.09	30.41
2450	1.94	31.90
2460	1.89	31.32
2470	1.49	30.47
2480	1.09	28.22
2490	0.71	26.33
2500	0.42	23.76

Test Result



顶设科技 i-Top	H57-R	RoHS Compliant
Date of Issue: 2024-10-18		dipole antenna
Page (6) of (6)	i-Top Drawing # 20241018	Revision #: Initial Release

FS 自	由空间		BH 头模测试		
BT Test		R			R
СН	TRP	TIS	СН	TRP	TIS
0	11.5	-93.94	0	8.58	-93.44
39	11.34	-93.34	39	8.7	-91.2
78	11.35	-93.06	78	8.64	-90.23

4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 10

