

	R1330-R	
Date of Issue: 2024-10-16		dipole antenna
Page (1) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

Source Control Drawing

Part Description:	Bluetooth TWS headset
客户料号:	
客户规格描述:	
iTD Part Number:	iS.00196
iTD Software version	
iTD Hardware version	XHY-R1330-R-V2.0

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

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	R1330-R	
Date of Issue: 2024-10-16		dipole antenna
Page (2) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

Number	Effective date	Change record
V2.0	2024-10-12	Initial release

编制	工程	审核

	R1330-R	 
Date of Issue: 2024-10-16		dipole antenna
Page (3) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

一、The basic parameters:

A. Electrical Characteristics	
Frequency	2400MHZ~2500MHZ
VSWR	< 2.0
Avg Efficiency	>5%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	2.4G:-3.5dBi
B. Material & Mechanical Characteristics	
Material of Radiator	FPC black
Cable Type	/
Connector Type	/
Dimension	/
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 30 °C ~ + 70 °C

顶设科技 i-Top	R1330-R	Pb RoHS Compliant
Date of Issue: 2024-10-16		dipole antenna
Page (4) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

二、Electrical Specification :

Those specifications were specially defined for R1330-R model.

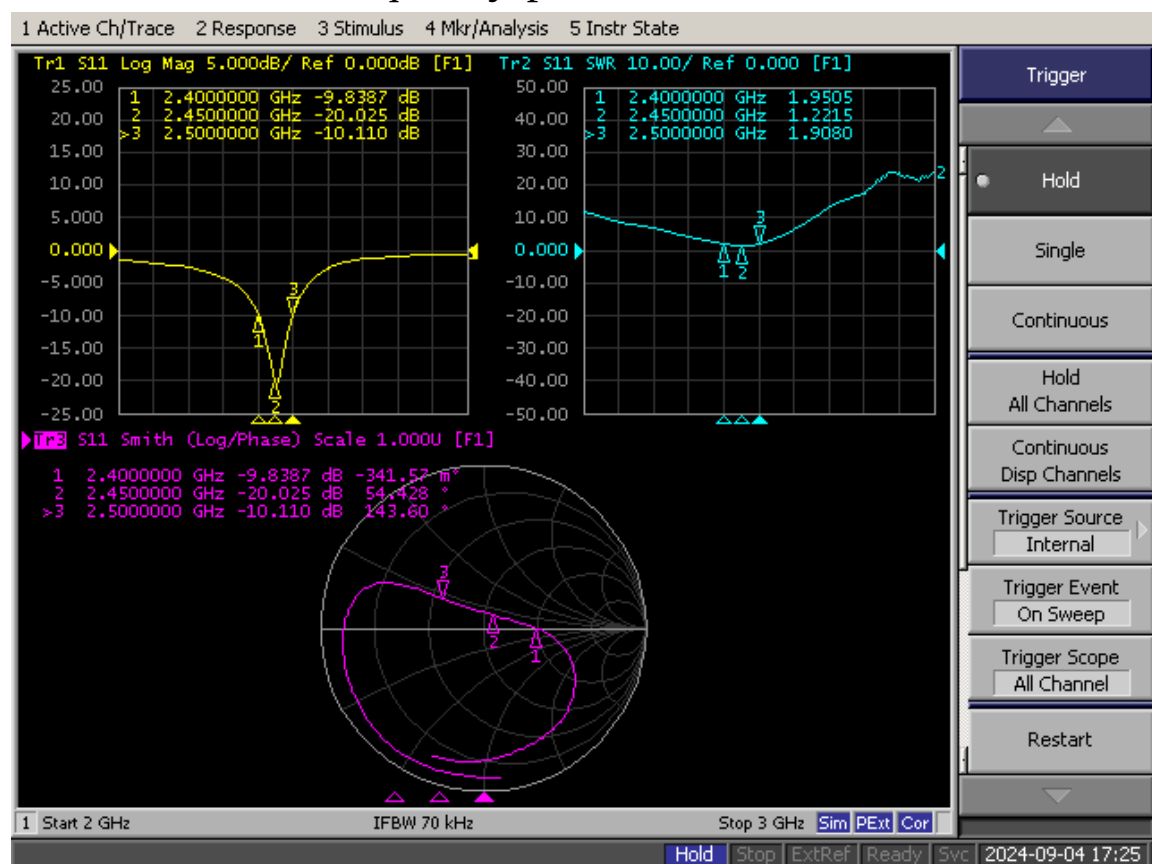
三、VSWR

1 Measuring Method

1.A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR

2.Keeping this jig away from metal at least 20cm

2 Measurement frequency points and VSWR value



顶设科技 i-Top	R1330-R	Pb RoHS Compliant
Date of Issue: 2024-10-16		dipole antenna
Page (5) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

四、 Anechoic chamber

Introduction:

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

main performance :

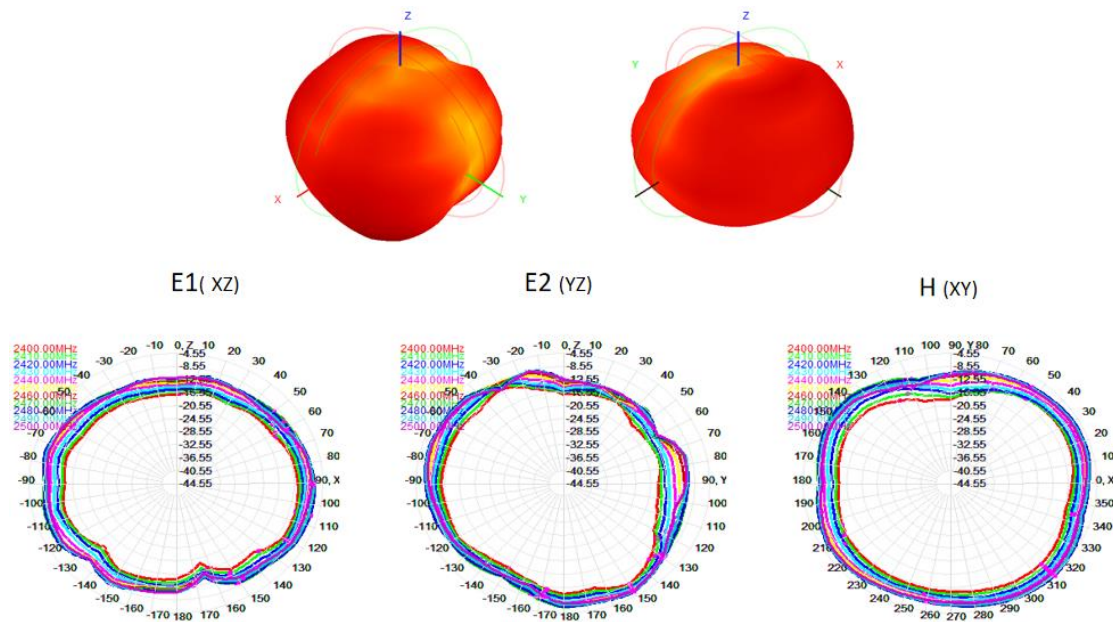
Frequency range: 400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)



顶设科技 i-Top	R1330-R	Pb RoHS Compliant
Date of Issue: 2024-10-16		dipole antenna
Page (6) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

五、Gain table of Antenna

Passive field pattern diagram-R

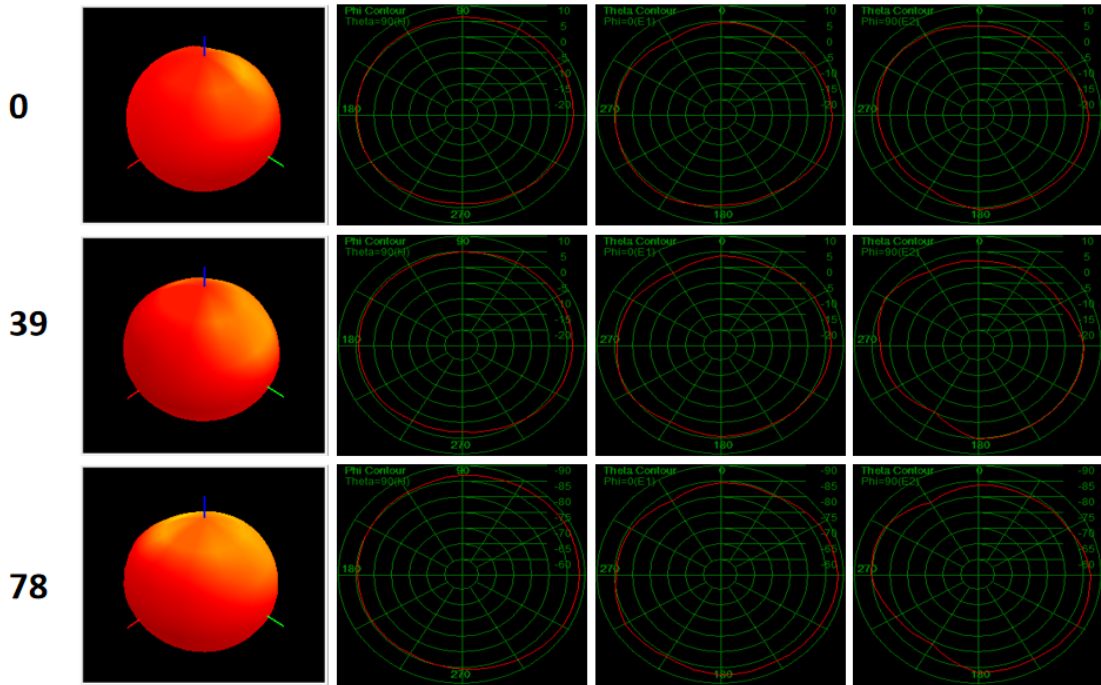


Passive efficiency gain

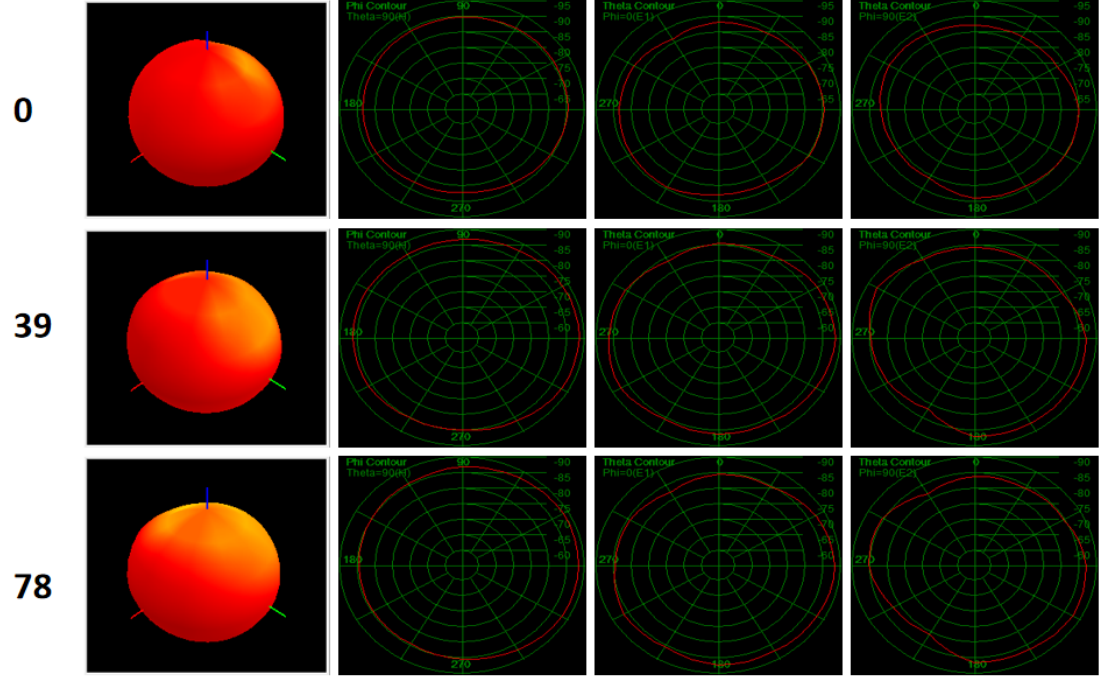
R		
Freq (MHz)	Gain (dBi)	Effi(%)
2400	-8.05	5.85
2410	-7.33	6.91
2420	-6.33	8.48
2430	-5.73	10
2440	-5.18	12.13
2450	-4.24	14.13
2460	-3.67	15.91
2470	-3.5	16.84
2480	-3.67	16.62
2490	-4.25	15.1
2500	-4.9	13.36

顶设科技 i-Top	R1330-R	Pb RoHS Compliant
Date of Issue: 2024-10-16		dipole antenna
Page (7) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

Active Free Space Field Pattern Diagram-R -TRP

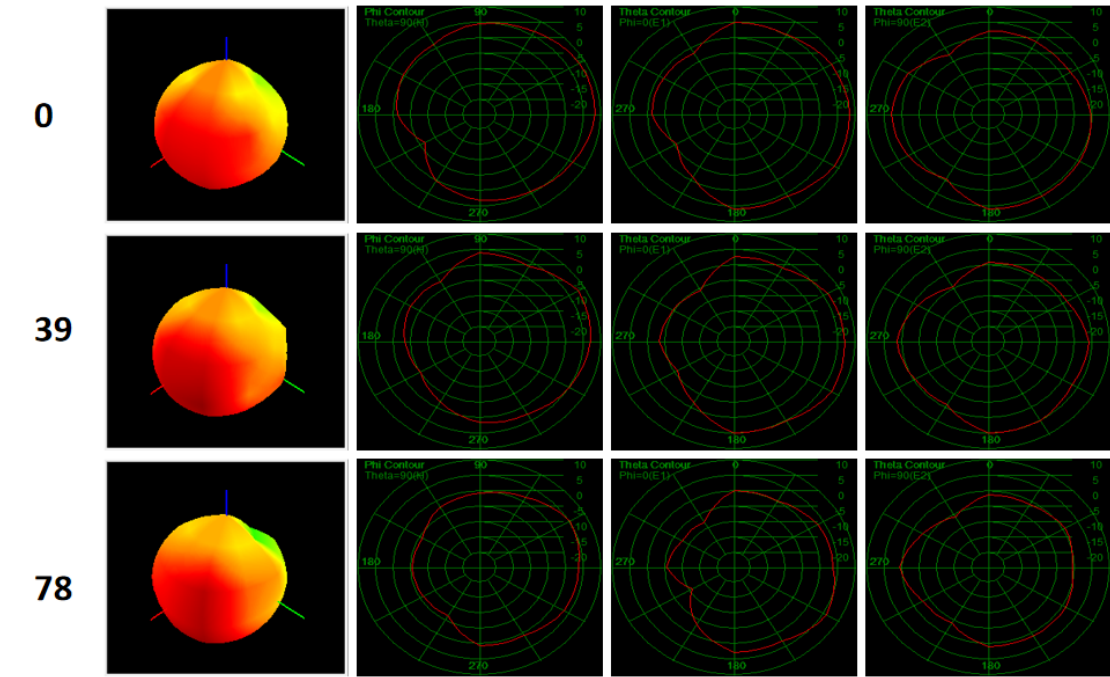


Active Free Space Field Pattern Diagram-R -TIS

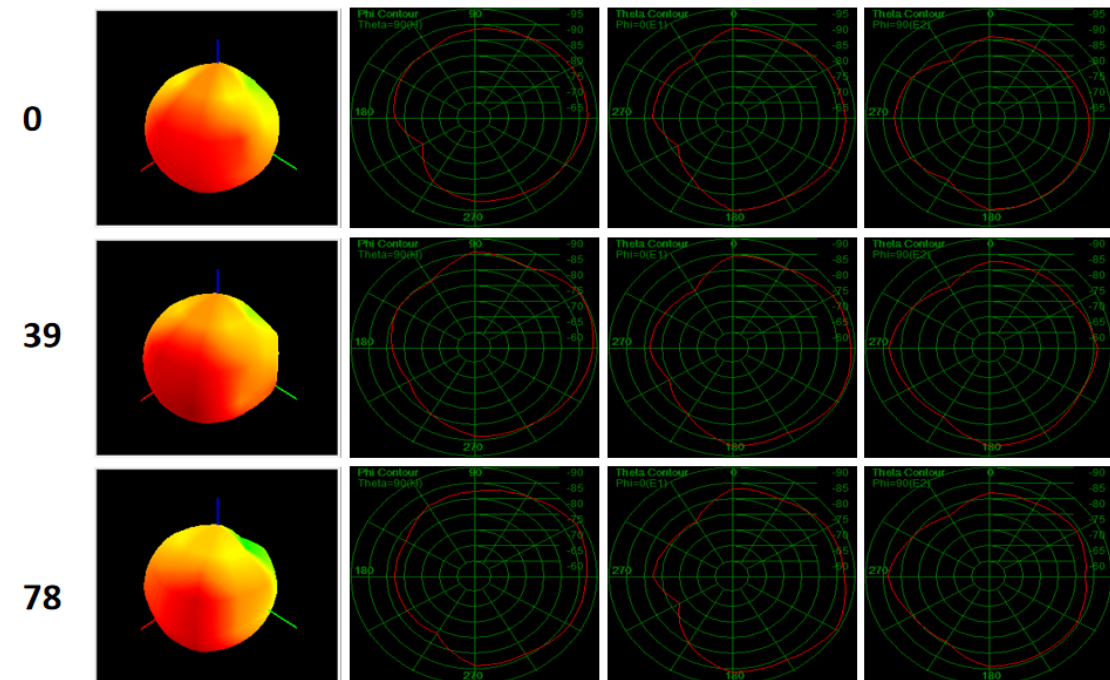


	R1330-R	
Date of Issue: 2024-10-16		dipole antenna
Page (8) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

There is a source mode field diagram-R -TRP



There is a source mode field diagram-R -TIS



	R1330-R	
Date of Issue: 2024-10-16		dipole antenna
Page (9) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

六：Machine Picture



OTA Active

R					
自由空间			头模		
BAND	TRP (dBm)	TIS (dBm)	BAND	TRP (dBm)	TIS (dBm)
0	4.84	-88.35	0	3.68	-87.52
39	4.04	-86.00	39	2.22	-84.12
78	2.27	-85.58	78	-0.01	-83.27

	R1330-R	
Date of Issue: 2024-10-16		dipole antenna
Page (11) of (11)	i-Top Drawing # 20241016	Revision #: Initial Release

八、 ROHS:

Antenna NZ. 01. 0000151 meets RoHS requirements.

九、 **Product packaging instructions:**

A. packing should meet the moistureproof, vibration, pressure and mildew proof, etc.

B. the smallest packing unit logo must have the manufacturer trademarks, product model, name, code and quantity.

C. in the attached packing list, certificate of approval, and the factory inspection report.

*****END*****