
Acknowledgement

Specification for Approval Customer Name

CUSTOMER NAME:

Customer Document
Number

CUSTOMER P/N:

Product Data Number

PRODUCT P/N: Z2C143B3D457A

Product name

PRODUCT NAME: Black whip antenna

Specification Description:

Description: Z2C143B3D457A/433MHz/Out-of-line antenna

Edition

REV: Version A

Factory issuance signature

SIGN	Approval APPROVED BY	Examine and verify CHECKED BY	Make DRAMN

Customer Signature

SIGN	Quality QE	Development R&D	Engineering PE

Contents

<i>Item</i>	<i>Description</i>
I. -----	Change History
II. -----	Specification Table
III. -----	Final Product Image
IV. -----	Test Report
V. -----	Physical Product Images

1. Revision History:

Reversion	Revision page	Change date	Revised by	Reason and content for revision	Remarks
A	-	2026. 3. 26	EVIEN	publication and distribution	

explain :

This specification is valid for a period of one year in principle.

If either party requires any modifications, such modifications must be agreed upon by both parties through consultation before implementation.

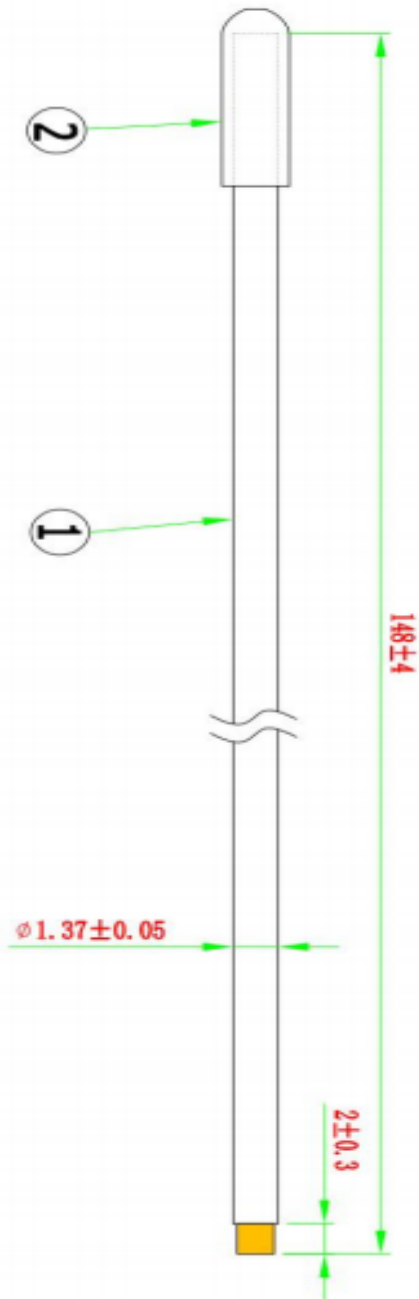
Upon expiration of this specification, if neither party requests modifications, its validity period shall be extended by one year.

II. Specification Table:

Main Technical Specifications of the Product

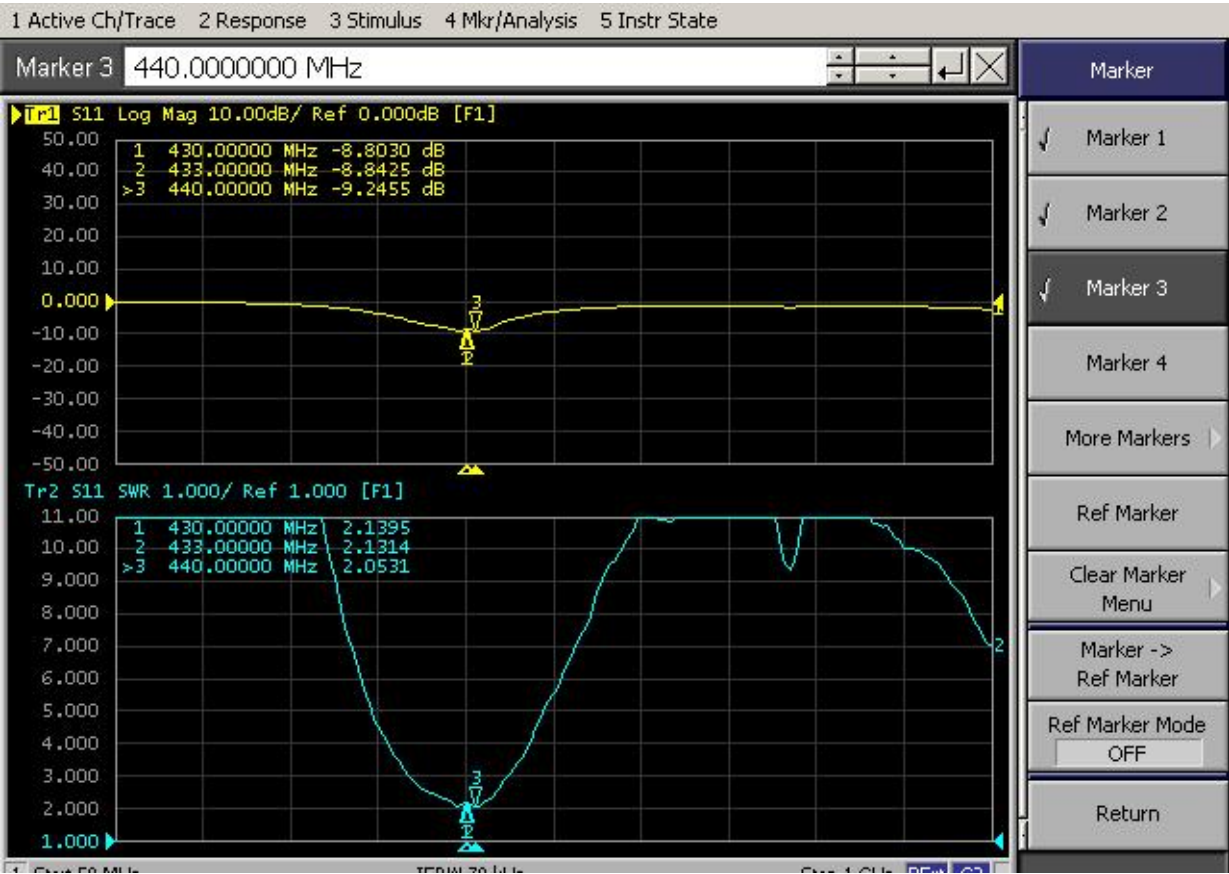
The key technical indexes		Main technical specifications	
Frequency range (MHz)	430~440	Frequency Range (MHZ)	430~440
Characteristic impedance (Ω)	50	Impedance(Ω)	50
Gain (dBi)	0 ~1	Gain(dBi)	0 ~1
Output voltage standing wave ratio	≤ 3.0	VSWR	≤ 3.0
Polarization Method	Linear polarization	Polarization	Linear
Directionality	Omnidirectional	Radiation	Omni-directional
Physical property		Physical Properties	
Antenna material	1.37 coaxial cable	Antenna cover	1.37 coaxial cable
Connection Method	Cable	Connector Type	Cable
Bus length	143mm	length	143mm
Working temperature	-20℃~+70℃	Operating Temp	-20℃~+70℃
Storage temperature	-20℃~+60℃	Storage Temp	-20℃~+60℃

III.Product Drawing:



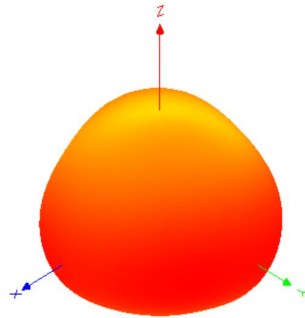
IV. Test Report:

4.1: Network Analyzer Test Report



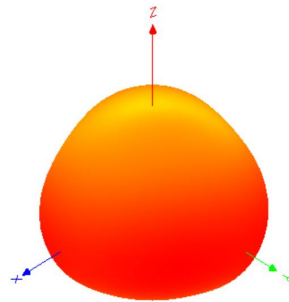
4.2: Darkroom 2D and 3D Radiation Pattern

Frequency (MHz) : 430



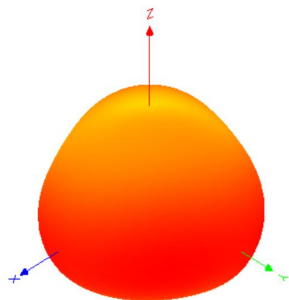
430MHz

Frequency (MHz) : 433

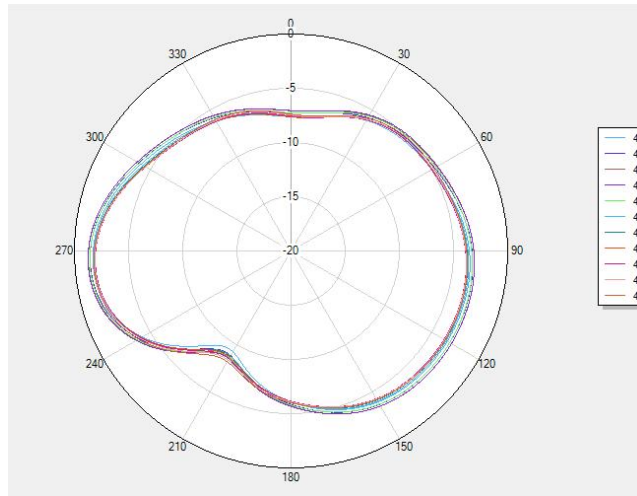


433MHz

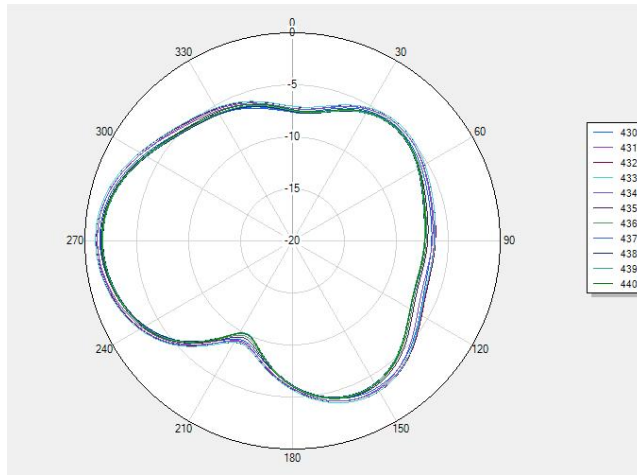
Frequency (MHz) : 440



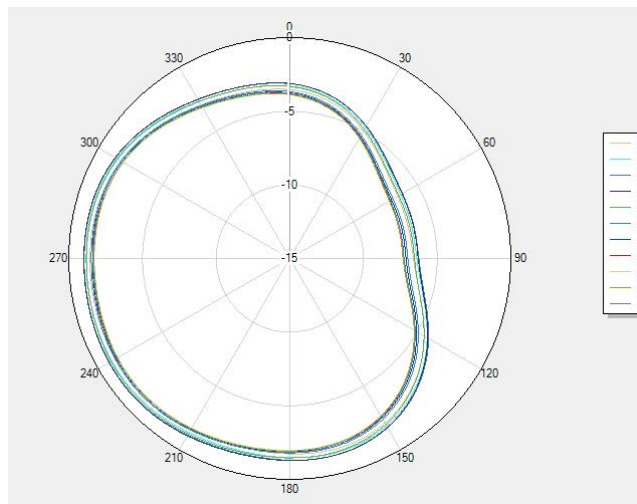
440MHz



Phi 0



Phi 90



Theta 90

4.3: Antenna Gain and Efficiency

ANT		
Frequency (MHZ)	Gain (dBi)	Productiveness (%)
430	0.2	36.79
433	0.73	39.72
440	0.28	34.95

V.Product drawing

