

SuZhou Saixun Communication Technology Co.,Ltd.

Add: NO.629,Yunli Road,WuJiang District,SuZhou City,JiangSu Province,China

Data Sheet

Product : Antenna

Date: Nov 11, 2024

Customer Applied model			
Customer	BAODE INTERNATIONAL LIMITED		
Customer Part No.	218118D88TX1600		
Product Description	Antenna		
Supplier	saixun		
Supplier Part No.	SX-005-1318		
Customer	By designed	By Checked	By Approval

Catalogue

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 Electrical Properties

 Mechanical Properties

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Revision History

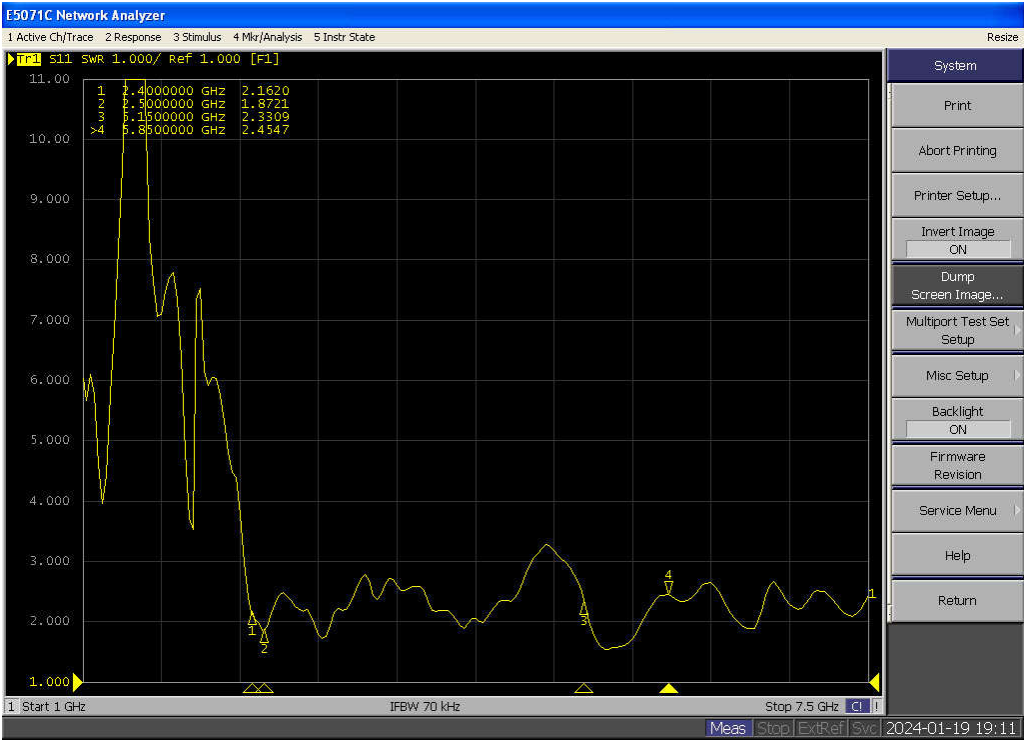
Revision No.	Originator	Description of changes	Date of changes
1	Yanhu Tuo	First document	Nov 11, 2024
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

1 General

Electrical Properties	
Frequency Band	2.4+5G
Test Frequency	2400-2500/5150-5850MHz
VSWR	≤ 2.5
Efficiency	$\leq 73\%$
Gain	≤ 5.0 dBi
Radiation Pattern	Omni-Directional
Polarization	V/H
Antenna Type	Dipole
Mechanical Properties	
Antenna Dimension	126 mm
Cable Type	RF 1.13
Cable Color	Gray
Cable Length	160 mm
Installation site	Machine inside
Environment Properties	
Operational Temperature	-40°C ~ +85°C
Storage temperature	-30°C ~ +60°C

2 Test Data

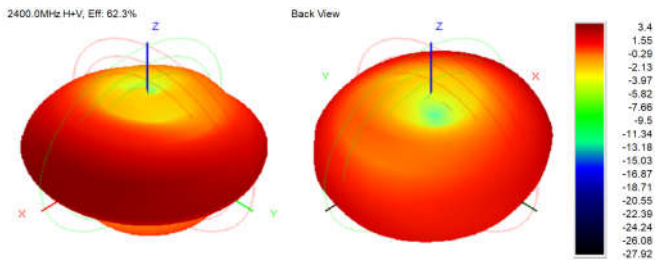
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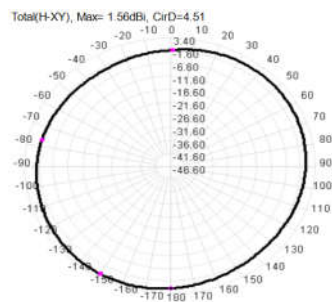
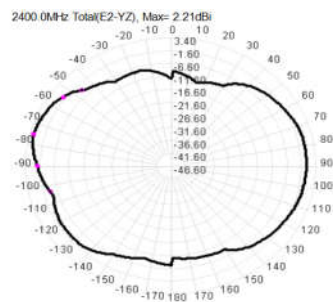
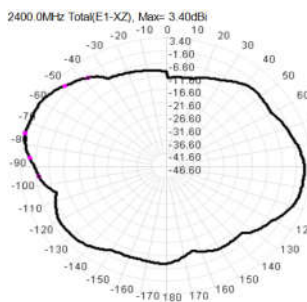
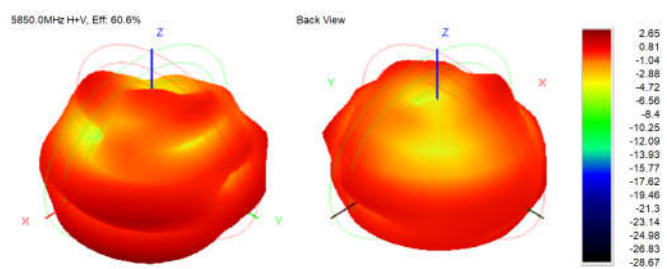
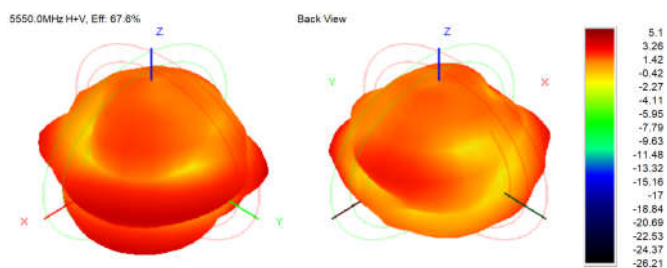
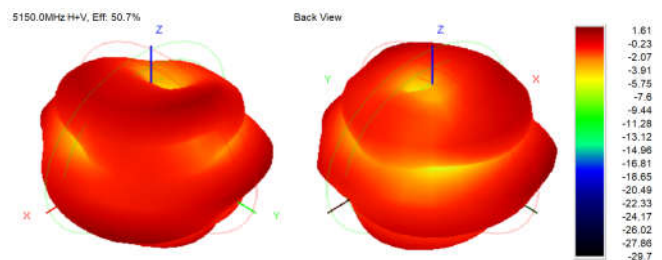
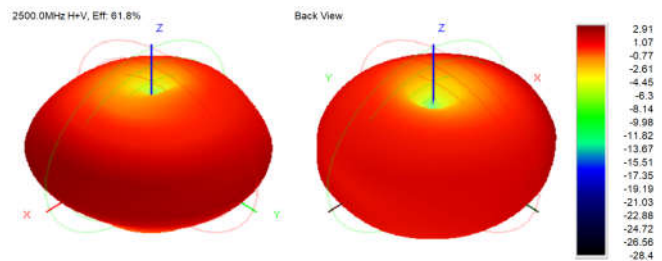
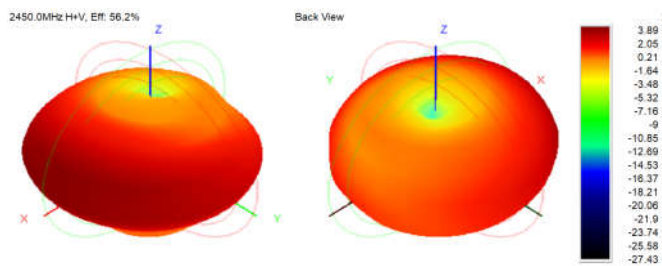


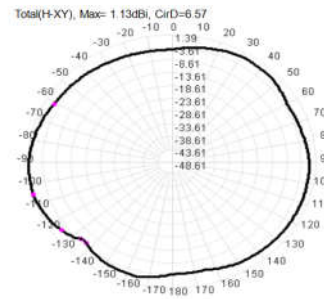
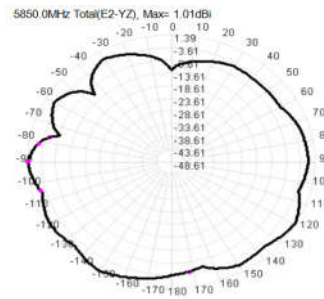
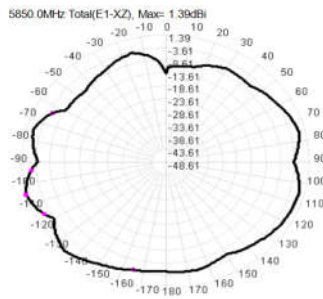
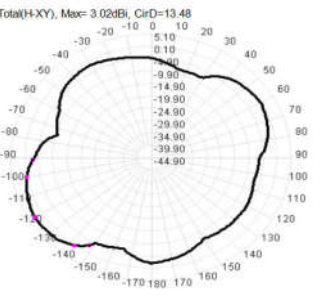
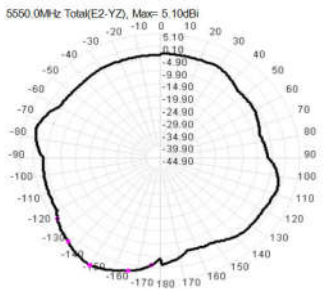
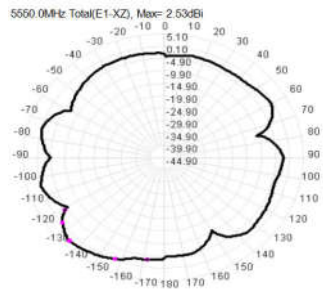
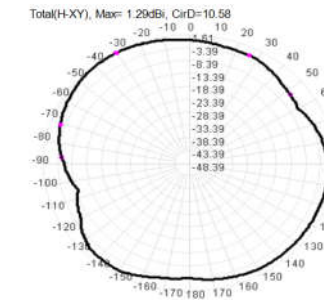
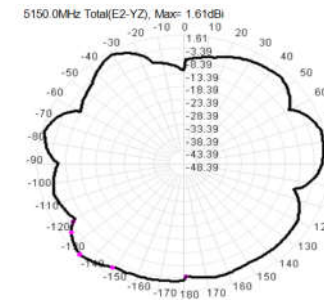
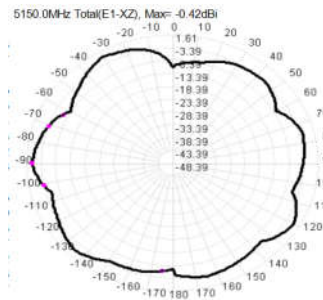
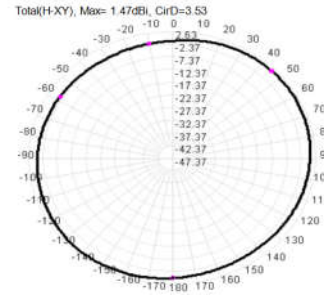
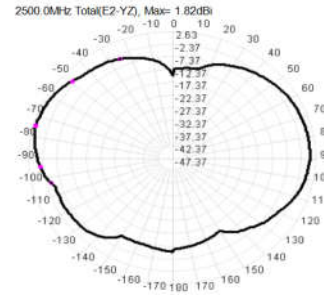
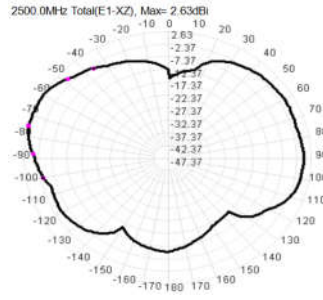
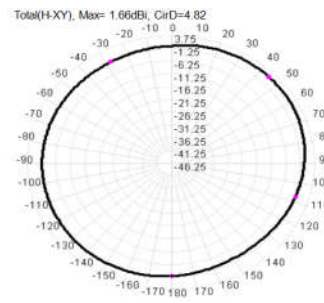
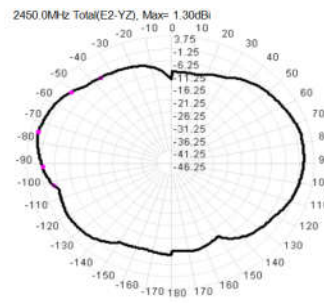
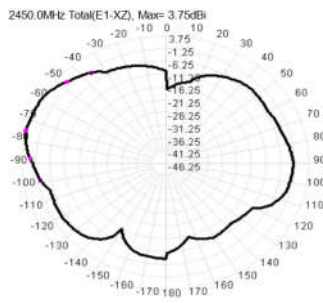
2.2 Radiation pattern

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-2.05	-2.07	-1.97	-1.97	-2.07	-2.51	-2.73	-2.63	-2.16	-2.06	-2.09
Gain (dBi)	3.40	3.63	3.88	4.01	4.09	3.89	3.61	3.28	3.32	3.11	2.91
Efficiency (%)	62.32	62.04	63.48	63.47	62.06	56.15	53.28	54.60	60.82	62.20	61.83

Frequency ID	12	13	14	15	16	17	18	19
Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Efficiency (dBi)	-2.95	-2.35	-2.26	-1.63	-1.70	-1.90	-1.37	-2.18
Gain (dBi)	1.61	2.60	3.36	4.80	5.10	4.61	4.10	2.65
Efficiency (%)	50.69	58.16	59.38	68.65	67.56	64.51	72.99	60.57







3 Mechanical Drawings

Engineering Design Change Record			
DATE	REV	ECR	Change Content and Description
Nov 11, 2024	A		NEW Issuance

NOTE:
1. Dimensions Marked with *
are Key Size .
2. Impedance :
50 Ω
Frequency Range :2.4-2.5G, 15-5.85GHz
VSWR ≤2.5
3. Smooth folding of antenna.
4. Protect the lined part of the
coaxial Cable.
5. The product and process comply with RoHS.

GENERAL TOLERANCE TABLE							
LINEAR		ANGULAR		UNIT	MM	PART NAME	WIFI Antenna
DIVISION	TOLERANCE	DIVISION	TOLERANCE	SCALE	1 : 1	VEDNER PNO.	SK-005-1318
0-10	±0.1	0-5°	±0.5°	DRAWING			
10-50	±0.3	5-20°	±1°	CHECKED			
50-80	±0.5	20-40°	±1.5°	APPROVED			
>80	±1.0	THIRD ANGLE PROJECTION					

NO.	DESCRIPTION	PIN	REMARK
4	Pin1		Cuppled NI
3	Coaxial cable, 1.3		Gray
2	Antenna base fixed		Black
1	Antenna cap		Black

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SUZHOU SAIXUN Communication Technology Co., Ltd