



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

Mobile trailer 2.4G WIFI Antenna

Customer No.

Product No.

SD-Mobile trailer 2.4G WIFI Antenna-300MM

Author: XiaofengZeng Review: Liming

Release Date: 2024.09.06

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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

Seapartment/post	Sign	Date
Hardware Engineer/RD		
Mechanical/MD		
Project Manager/PM		
Commercial/Puchasing		
Checker		

1.2 Signature of ShuoDian Technology company

Seapartment/post	Sign	Date
Antenna Engineer/RD		
Mechanical/MD		
Project Manager/PM		
QA		
Checker		



2. General

2.1 Scope of application

This specification is only applicable to Mobile trailer 2.4G WIFI Antenna

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO.	ITEMS	DETAILS
1	Type	Mobile trailer
2	Operating Frequency Band	2.4~2.5GHz
3	VSWR	≤ 2.0
4	Gain	$3.0 \pm 1\text{dBi}$
5	Impedance	50Ω
6	Antenna Type	Monopole
7	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

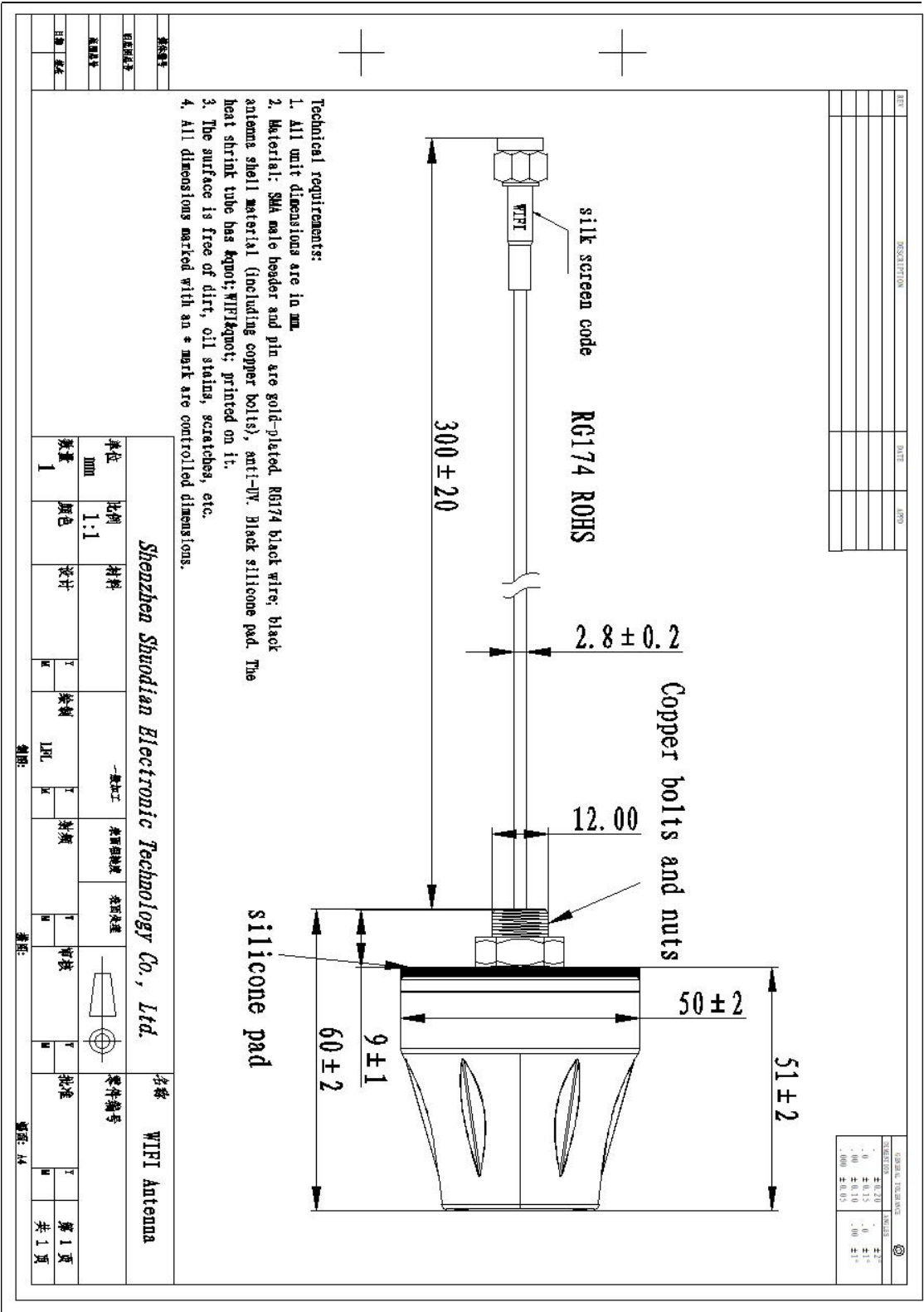
4.11 Product Composition:

4.12 Apperance

Good appearance without scars 、 dirt、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Product drawings:





4.2 Electric Performance

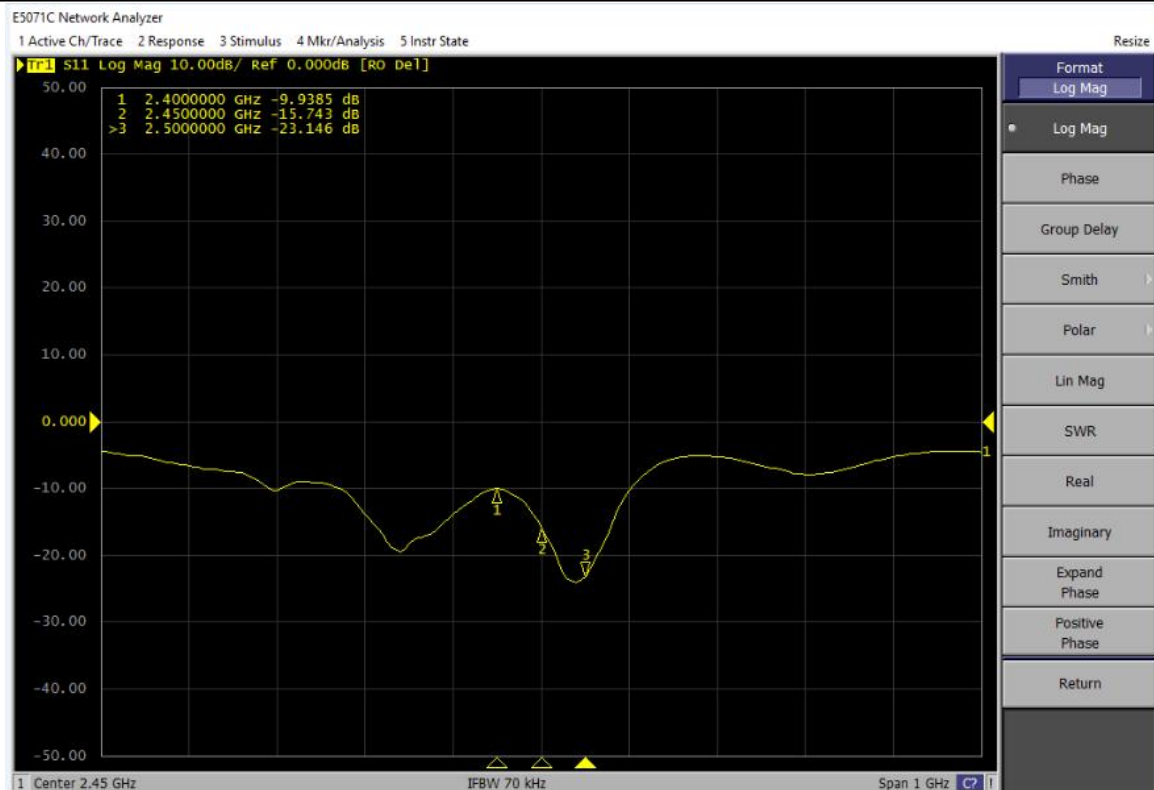
4.21 Test condition

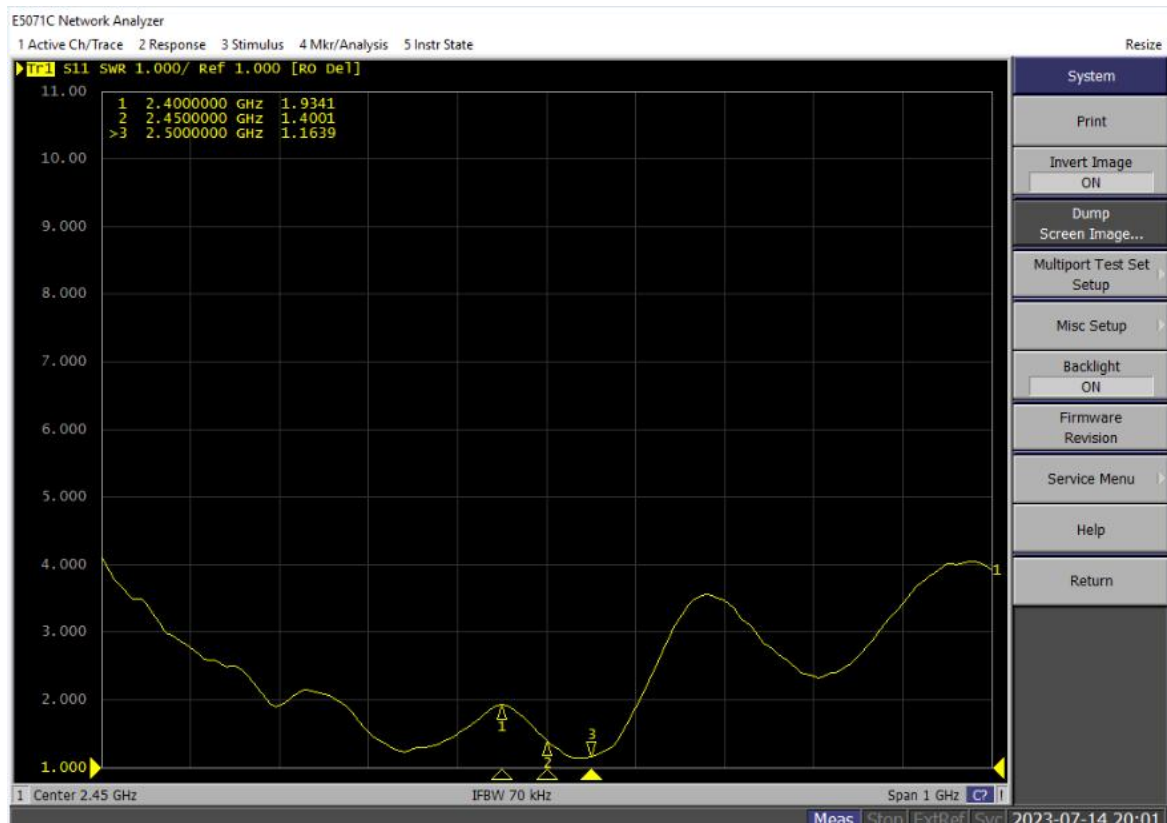
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Anechior Chamber: ETS
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHz)	2400	2450	2500
ReturnLoss	-9.93	-15.7	-23.1
VSWR	1.93	1.40	1.16





4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

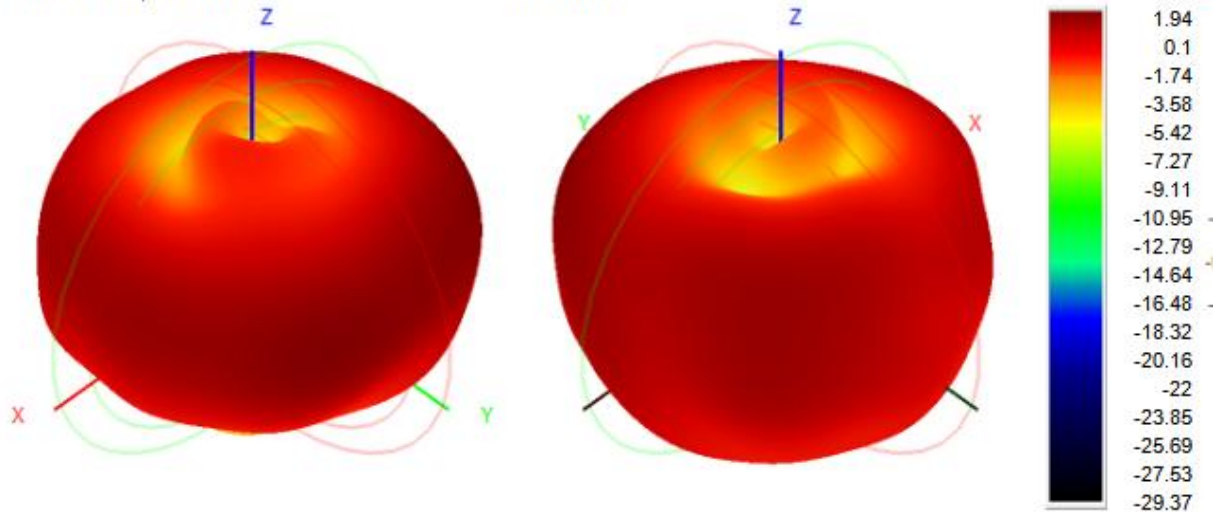
Marker (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	2.70	2.60	2.47	2.31	1.84	1.94	2.28	2.51	2.60	2.47	2.12
Efficiency (%)	46.3	47.0	47.1	48.6	50.1	50.9	49.5	47.4	45.0	43.8	43.9



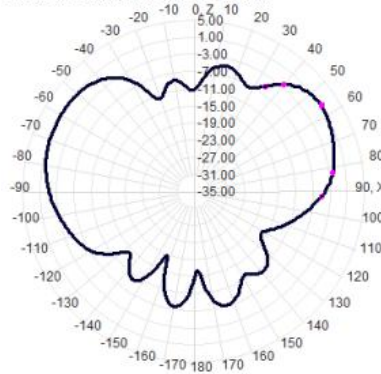
2450MHz

2450.0MHz H+V, Eff: 50.9%

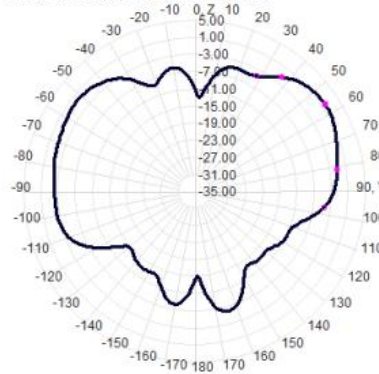
Back View



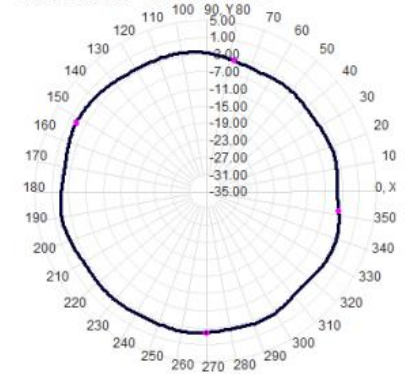
2450.0MHz Total(E1-XZ), Max= 0.84dBi



2450.0MHz Total(E2-YZ), Max= 1.54dBi



Total(H-XY), Max= -0.77dBi, CirD=3.88



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 50 pcs each.



6. Document Resume

Document No.	
Release Date	2024/09/06
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2024/09/06	1.00	New Project