

天线规格书

The Main Antenna Sample Confirmation

Document number: SNW-QR-D-007/A.0

客户名称 Customer	Zhejiang Sunseeker Industrial Co.,Ltd.		
项目名称 Project Name	2.4G Lora Antenna project	日期 Date	2025-11-4
项目型号 Project NO.	SN1514	备注 Notes	PCB+ coaxial cable
频段 Frequency Range	2.4G		
设计 Designed By	RF Engineer	Structural Engineer	
			
审核 Checked By	Engineering Manager		
客户确认 Client' s Approval			

设计单位: 司南微电子(深圳)有限公司

Designer: SINAWELL Electronics(Shenzhen) Co., Ltd.

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1. Specification Overview

This specification document describes the condition of the 2.4G LoRa antenna, with its frequency band being 2.4G.

2. Electtrical Performance

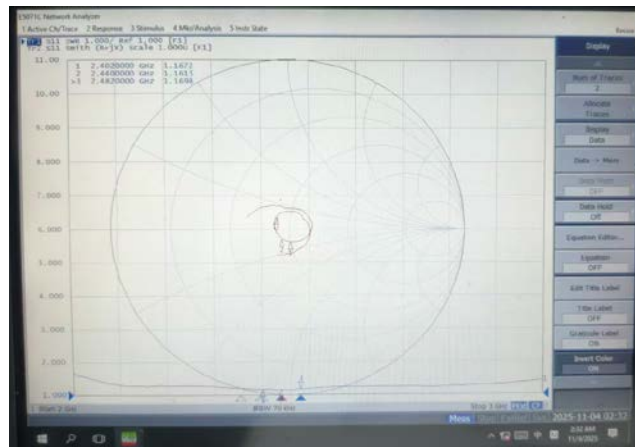
2.1. Antenna frequency band

Antenna	2.4G
operating frequency	2400~2500MHz

2.2. Match Circuit

The original motherboard is compatible and has not been modified.

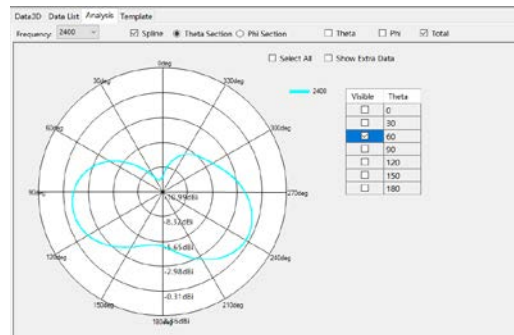
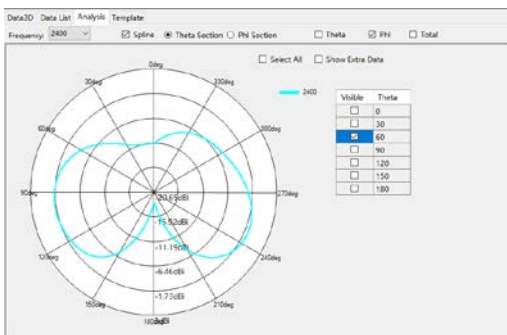
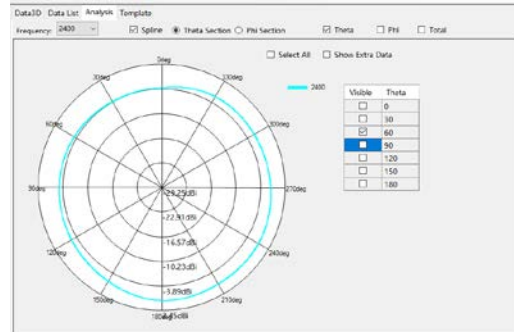
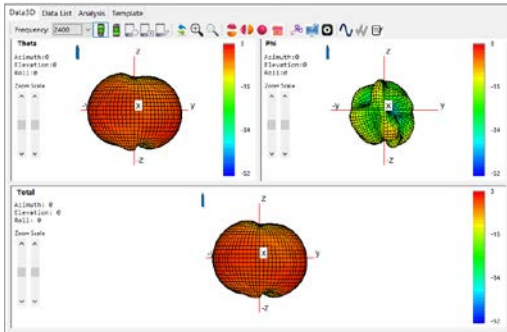
2.3 SWR+SMITH



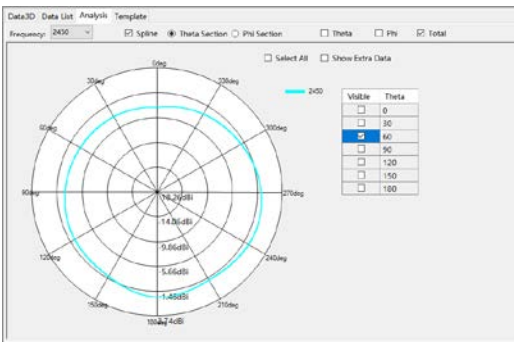
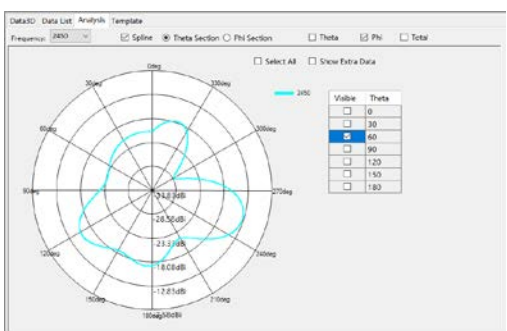
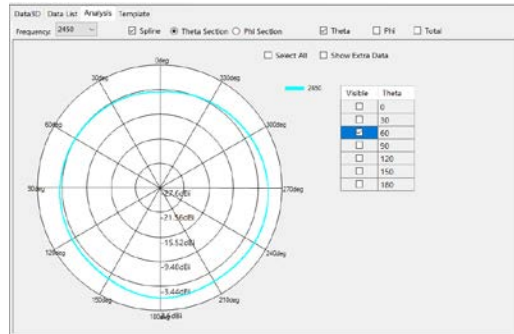
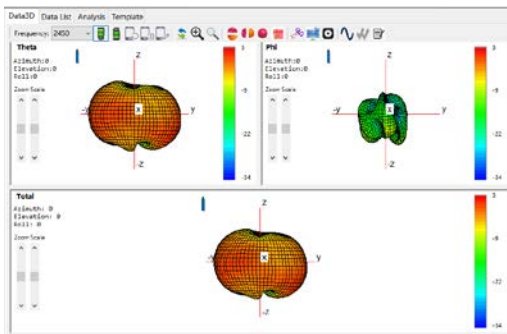
2.4 Antenna efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
2400	68.16	2.11
2410	68.18	2.12
2420	67.85	2.07
2430	67.76	2.04
2440	67.15	1.98
2450	66.89	1.95
2460	66.71	1.92
2470	66.38	1.88
2480	65.89	1.82
2490	65.39	1.78
2500	66.17	1.8

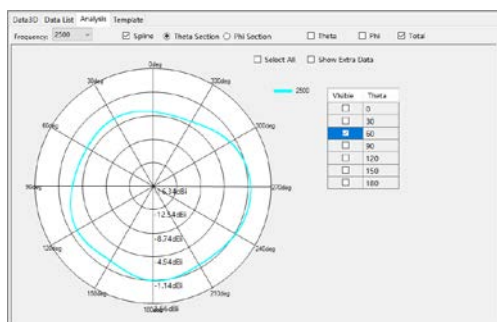
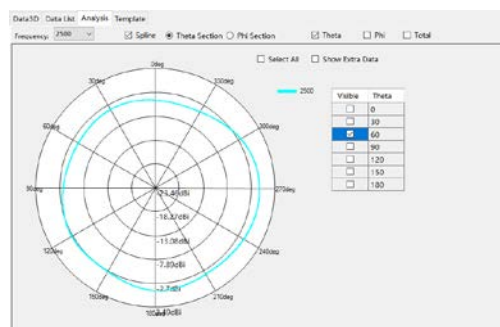
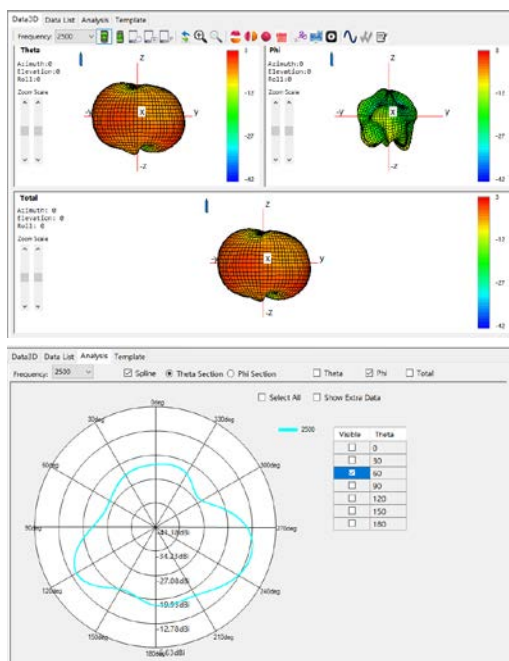
2.5 Directional Diagram 2400MHz



2450MHz



2500MHz



3. Structural Drawings

