

Specification for Approval

CONTENTS

Customer:	N/A	Vendor:	N/A
CustomerP/N:	N/A	HL P/N:	N/A
Productmodel:	HSELAQ_05_90MG_61	HL Device Name:	N/A
Pcbantenna brand:	Yaocheng	Approval Date:	2026-6-22

Internal Approval		
Approved By:	Checked By:	Prepared By:
		Zhang Bin
Customer Approval		

Revision:

Date	Rev	Description of Changes
2023-9-22	A	Initial Release

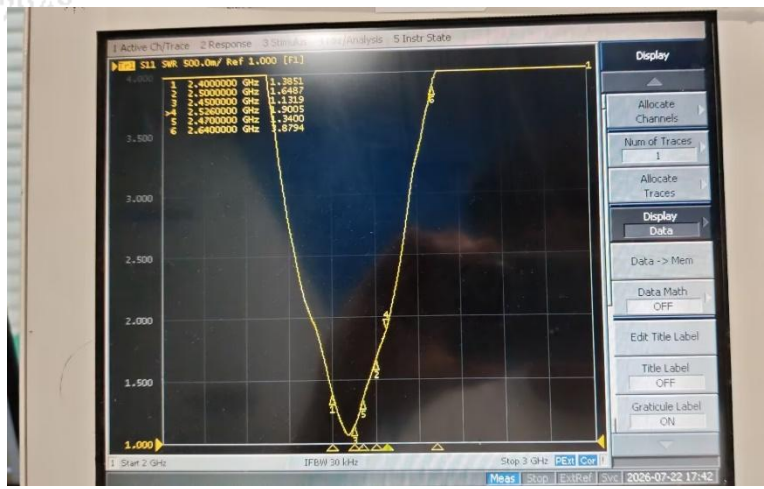
1、Products Electrical

PCB Antenna

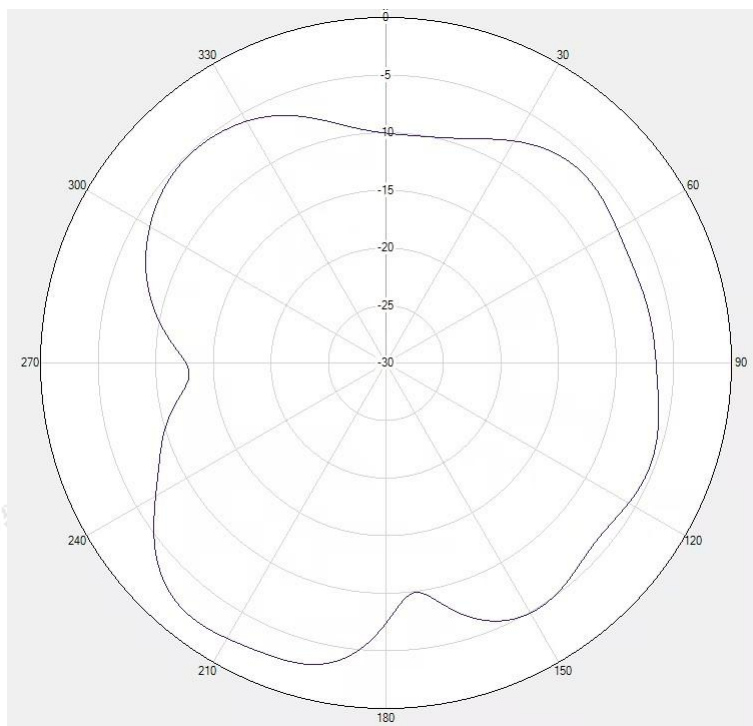
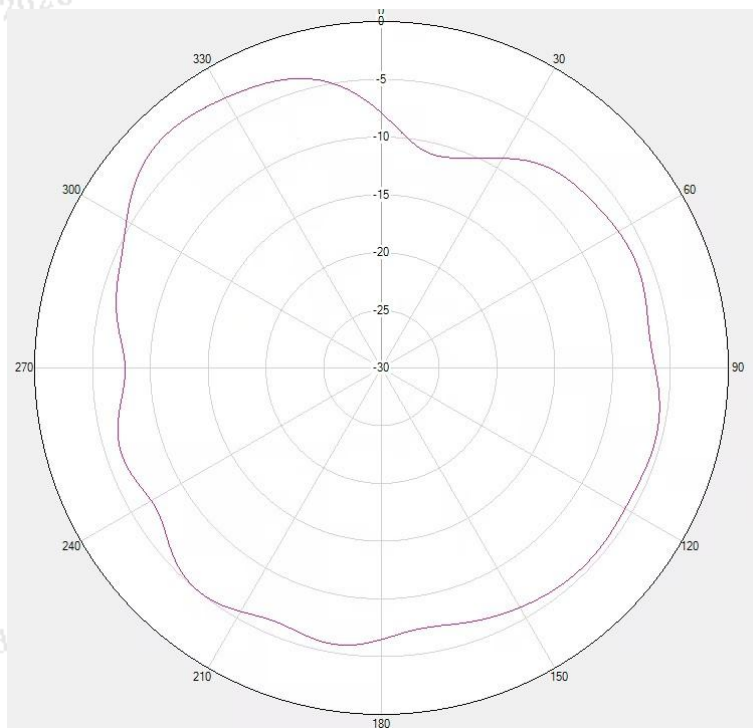
1	Antenna Model	PCB IFA Antenna
2	Frequency Range	2400-2500MHz
3	VSWR (or return loss)	<2 (<-9.5dB)
4	Broadband	>100MHz
5	Impedance	50 ohm
6	Gain	-2.4dBi
7	Polarization	LP

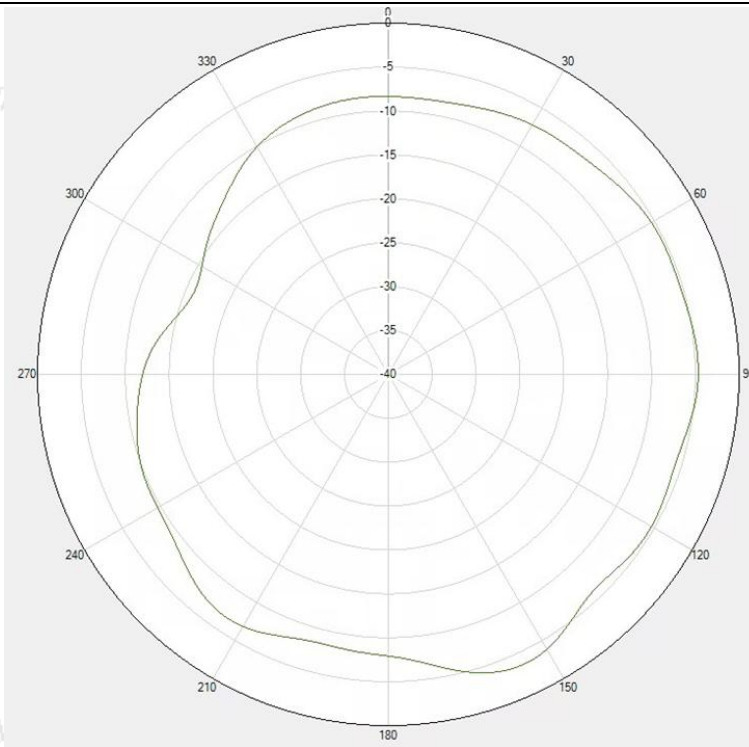
2、Antenna Test Data

2.1VSWR



2.2 RADIATION PATTERNS 2450MHz





2.3 GAIN AND EFFICIENCY

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	35.6	-2.5
2410	35.0	-2.9
2420	32.3	-2.9
2430	36.3	-2.4
2440	36.5	-2.5
2450	35.8	-2.6
2460	35.1	-2.9
2470	36.7	-2.6
2480	38.3	-2.5
2490	36.5	-2.6
2500	34.7	-2.7

3、PCB ANTENNA (MM)

