



天线承认书

Parts Approval Sheet

Customer	超越	Project	M500
Band	WiFi	Color	BLACK
PN	X3560	Version	V2.0
Customer material number			

DATE: 2026/1/26

R&D			QC
Issued by	Checked by	Confirmed by	Checked by
Customer Confirm			

Environmental requirements: ☒ ROHS

☐ REACH

☐ 无

Contents

Contents	2
1.Summary	3
2.General Description	3
2.1Antenna Components/Part revisions	3
2.2Definitions	3
3.Performance Test	4
3.1 Mounting Diagram	4
3.2 Antenna Matching	4
3.3 Efficiency& gain	5
3.4 OTA	6
3.5 2D&3D Pattern	7
4.Antenna Engineer drawing	7

1. Summary

This report summarizes the electrical results of the our antenna to support the project M500. The test fixture is made for further testing, which is show below:



Front



Back

2. General Description

2.1 Antenna Components/Part revisions

The antenna part number is T: A

2.2 Definitions

VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total isotropic sensitivity

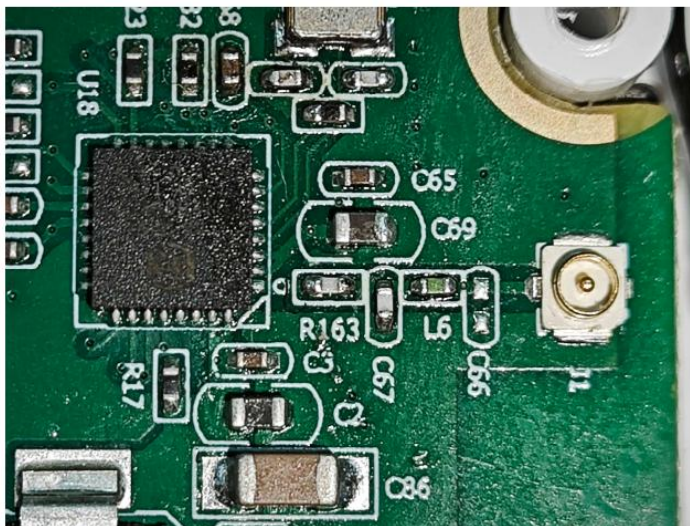
3. Performance Test

3.1 Mounting Diagram

Antenna mounting position
(30±1mm length)
The antenna configuration remains unchanged,
with only the wire length modified



3.2 Antenna Matching



R163=1.5pF;
C67=1.2pF;
L6=1.5nH;
C66=NC

3.3 Efficiency& gain

频率	效率 (db)	增益 (db)	效率 (%)
2400	-2.87	1.21	51.61
2410	-3.04	1.07	49.7
2420	-3.15	1.02	48.37
2430	-3.38	0.77	45.91
2440	-3.48	0.85	44.86
2450	-3.58	0.81	43.89
2460	-3.7	0.82	42.68
2470	-3.54	1.01	44.27
2480	-3.54	1.12	44.26
2490	-3.52	1.23	44.49
2500	-3.48	1.18	44.83
平均值	-3.39	1.00818	45.90



3.4 OTA

(30mm cable length)

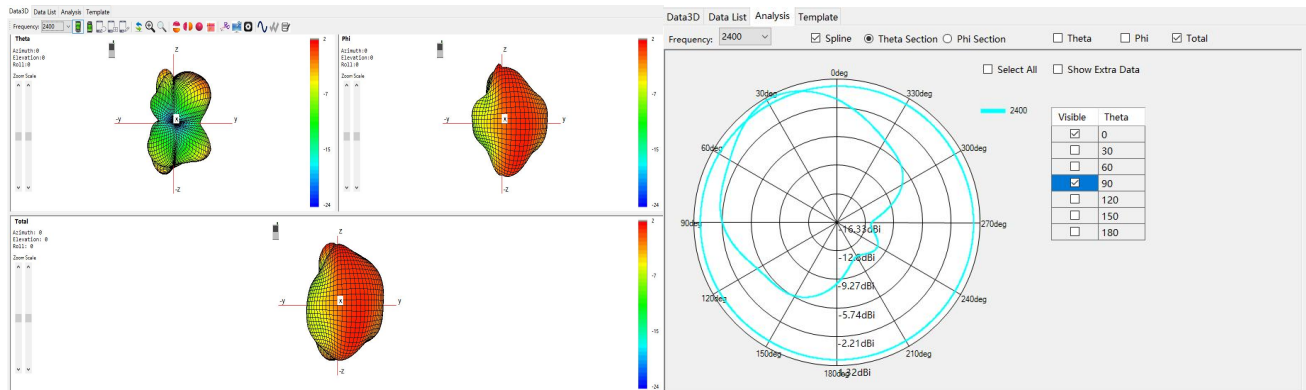
Band number	Test Channel	Up Frequency	TRP	TRP standard	Difference = TRP-TRP standard	Before modifying the motherboard TRP	D-value	TIS	TIS standard	Difference = TIS standard-TIS	Before modifying the motherboard TIS	D-value
802.11b 2.4GHz (11M)	1	2412	15.85	10	5.85	9.96	5.89	-76.1	-80	-3.9	-77.56	-1.46
	7	2442	15.65	10	5.65	8.94	6.71	-77.14	-80	-2.86	-79.05	-1.91
	13	2472	14.74	10	4.74	8.7	6.04	-75.14	-80	-4.86	-80.27	-5.13

Interface Grounding Data Comparison (56mm Wire Length)

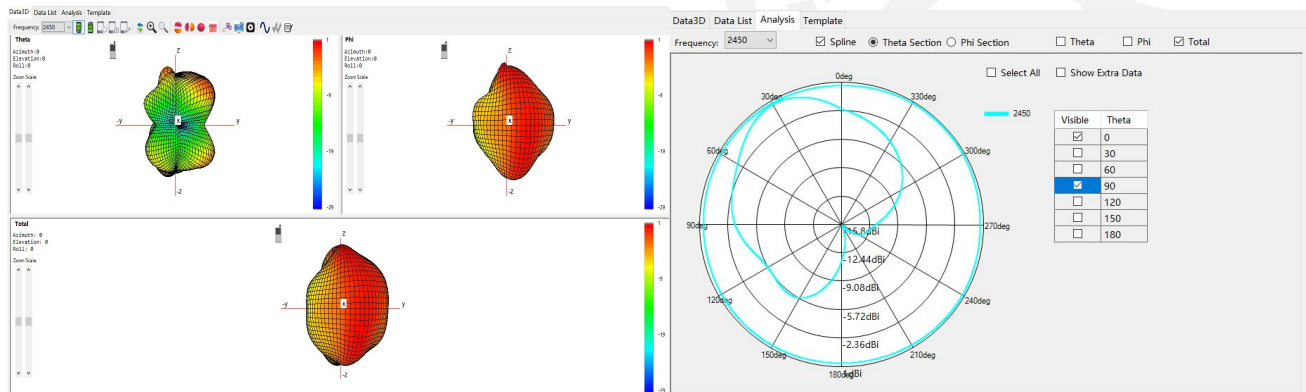
Band number	Test Channel	Up Frequency	Grounding before TRP	After grounding TRP	D-value	Grounding before TIS	After grounding TIS	D-value
802.11b 2.4GHz (11M)	1	2412	15.61	15.62	0.01	-71.73	-72.04	0.31
	7	2442	14.24	14.27	0.03	-74.13	-74.82	0.69
	13	2472	13.37	13.51	0.14	-74.22	-74.1	-0.12

3.5 2D&3D Pattern

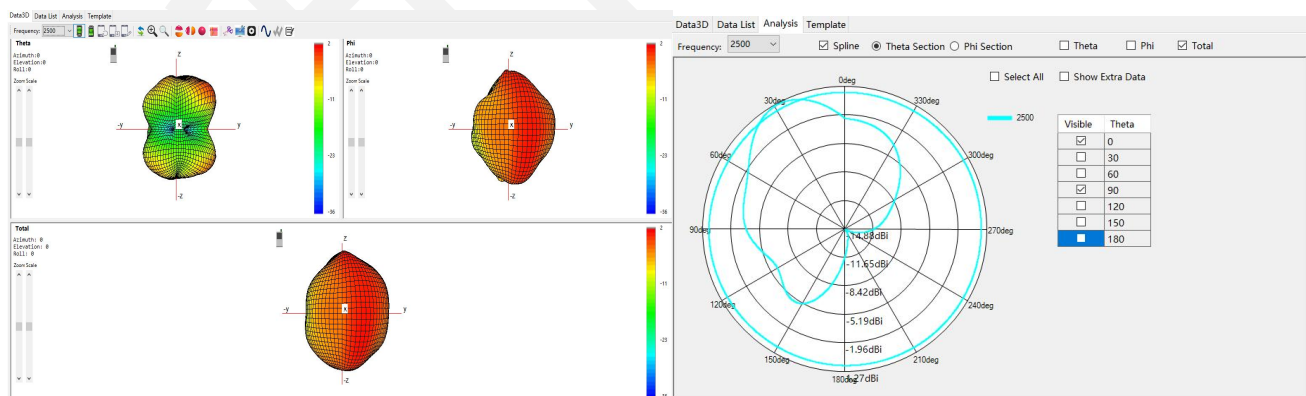
2400



2450



2500



4. Antenna Engineer drawing

