
Shenzhen Hengbo Communication Technology Co., Ltd.

Acknowledgement

Customer Name:Shenzhen Tietou Technology Co., LTD.

Project Name:GD2509

Product Spec:Built-in 2.4-FPC antenna

Mater- ial Number Customer P/N:31112.00047.00.00

edition REV: V1.0

Date: 2025. 10. 20

Drawing	Check	Approved

Customer acknowledges; Customer approves

Check	Approved	Approval

**Address: 1102, Building C2, Mingzhi Garden, No.30 Tangqian Road,
Tangwei, Guangming District, Shenzhen**

Catalogue

Index

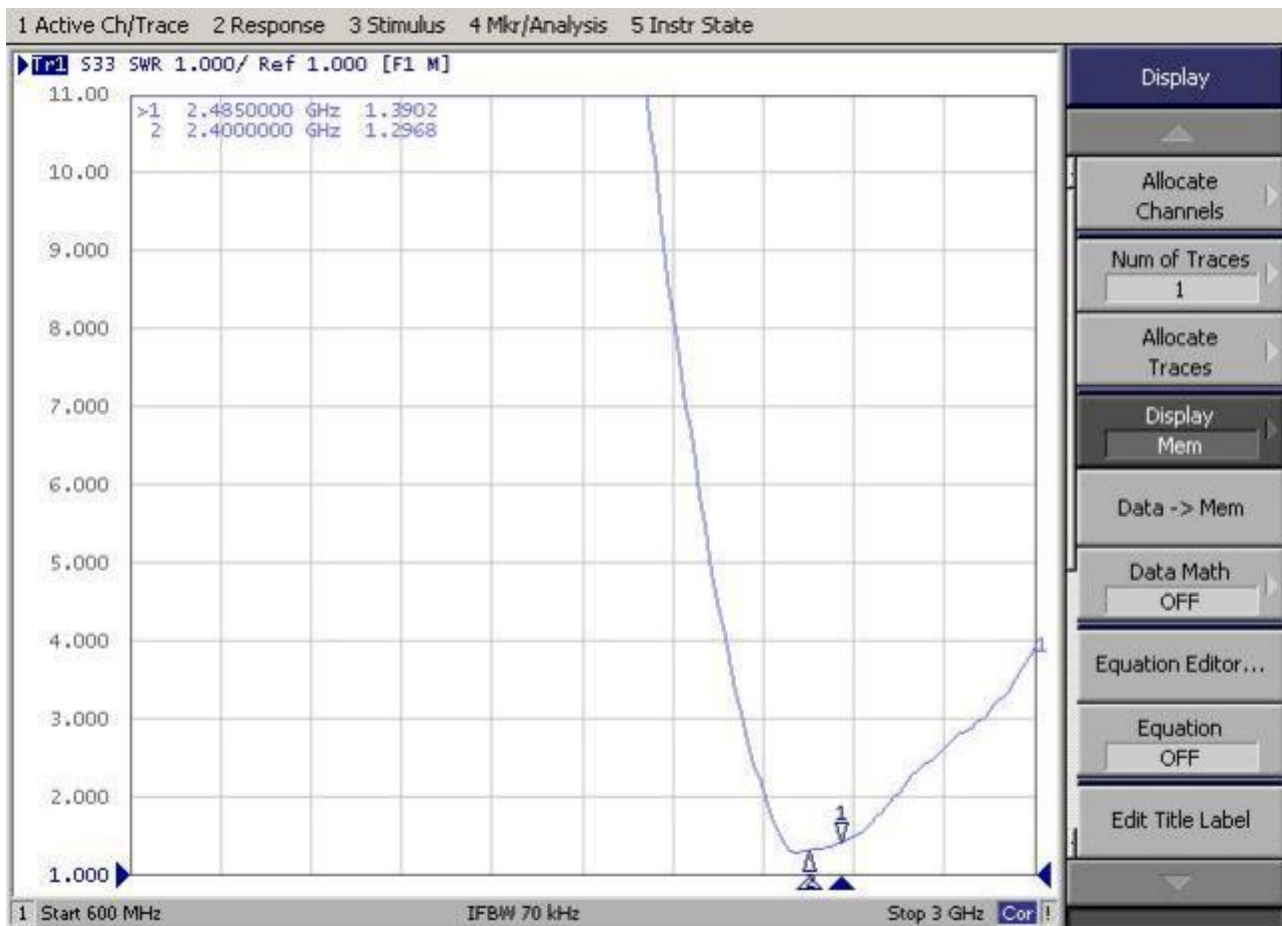
1. Cover	1
2. Table of Contents Index	3
3. Electr ical Per forman ce In dex (EPI)	4
4. Test Report	5/8

III. Electrical Performance Index

Electrical PERFORMANCE INDICATORS		Electrical Specifications	
Frequency range: 2400-2500 MHz		2400-2500MHZ	
Voltage standing-wave ratio	≤ 2.0	VSWR	≤ 2.0
Gain	≤ -0.19 DBI	GAIN	≤ -0.19 DBI
Radiation mode	Omnidirectional	Radiation	OMNI
Polarization mode	Linear polarization	Polarizatin	LINEAR
Input imped- ence	50 Ω	Input Impedance	50 Ω
Mechanical PERFORMANCE INDICATORS		Mechanical Specifications	
Interface form	IPEX-3 generation	Input connector	IPEX-3 generation
Antenna mat- erial	FPC	Antenna materia	FPC
Working te- mperature	-30℃~+80℃	Working Temperature	-30℃~+80℃
Working hu- midity	40~85%	Working Humidity	40~85%

IV. Test Report

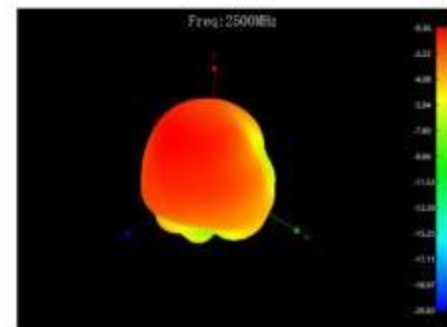
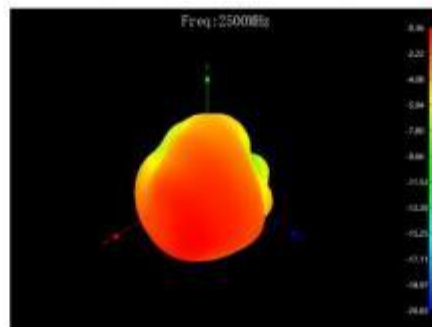
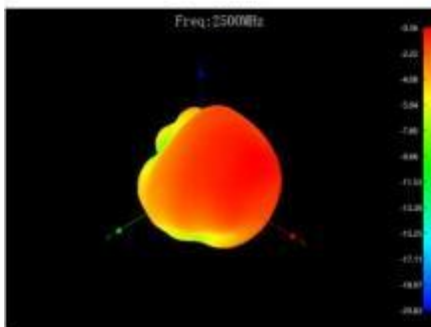
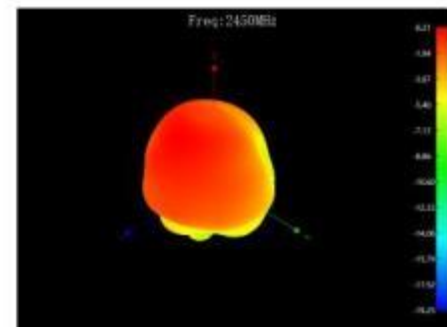
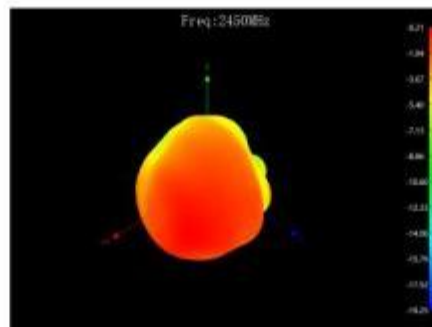
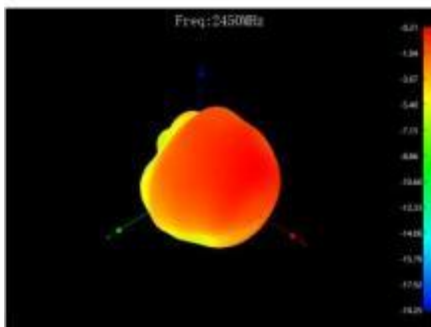
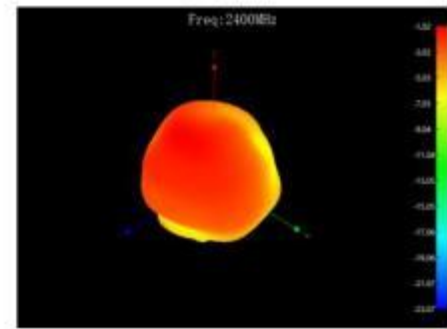
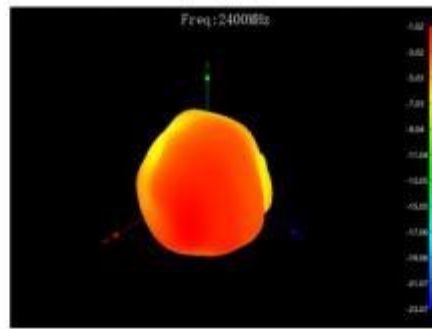
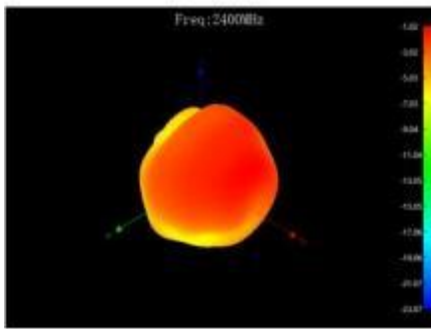
1.S11 Data



2. Antenna Gain Efficiency

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	-1.23	34.25
2410	-0.58	34.58
2420	-0.86	35.52
2430	-0.19	34.76
2440	-0.35	33.15
2450	-0.72	34.28
2460	-0.96	33.16
2470	-0.98	32.36
2480	-0.84	34.45
2490	-0.89	32.62
2500	-1.06	32.47

3. | antenna pattern :



V. Engineering Drawings

