

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT: YAN JI

CUSTOMER P.N. :

PRODUCT NAME. : boardborne Antenna

MODEL NO. :

SPECIFICATION :

VERSION	DATE	REVISION DESCRIPTION
T:A	2026-4-14	newly added

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
JENNY		

CUSTOMER AUTHORIZED SIGNATURE			
Project		Quality	

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with your
approved signature.

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1 DEFINITION

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access

2 Test equipment

Can be increased or decreased according to actual situation

vector network analyzer

Comprehensive test instrument

GTS darkroom

3 Applicable frequency band

Mark the applicable frequency bands with other colors.

System	up
WIFI (2. 4G)	2412MHz~2483MHz
5. 8G	5725MHz~5850MHz

4 Basic testing items

4.1 Standing wave ratio diagram

4.2 Smith impedance diagram

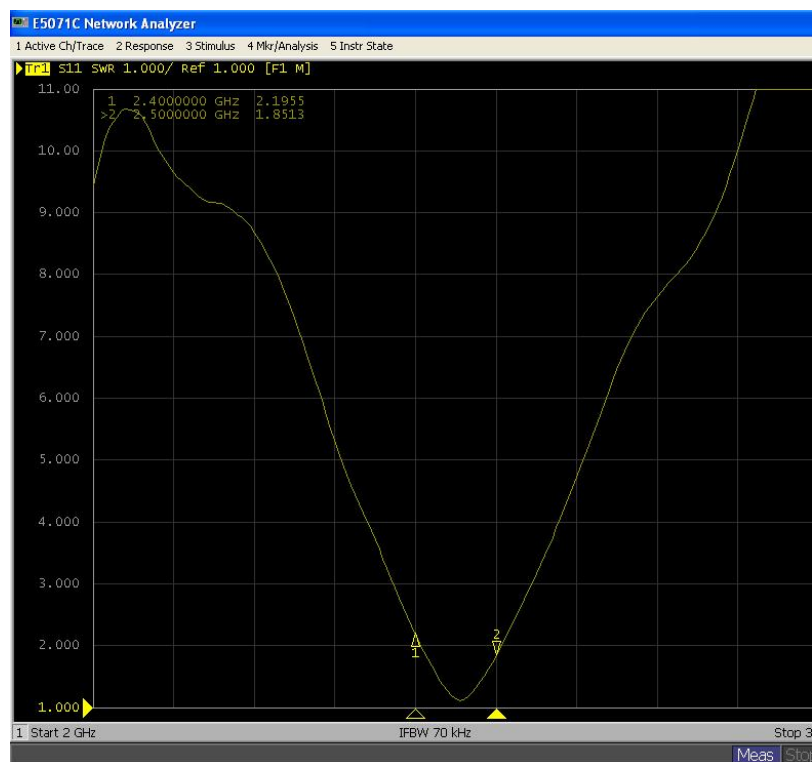
4.3 Radiation pattern

4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

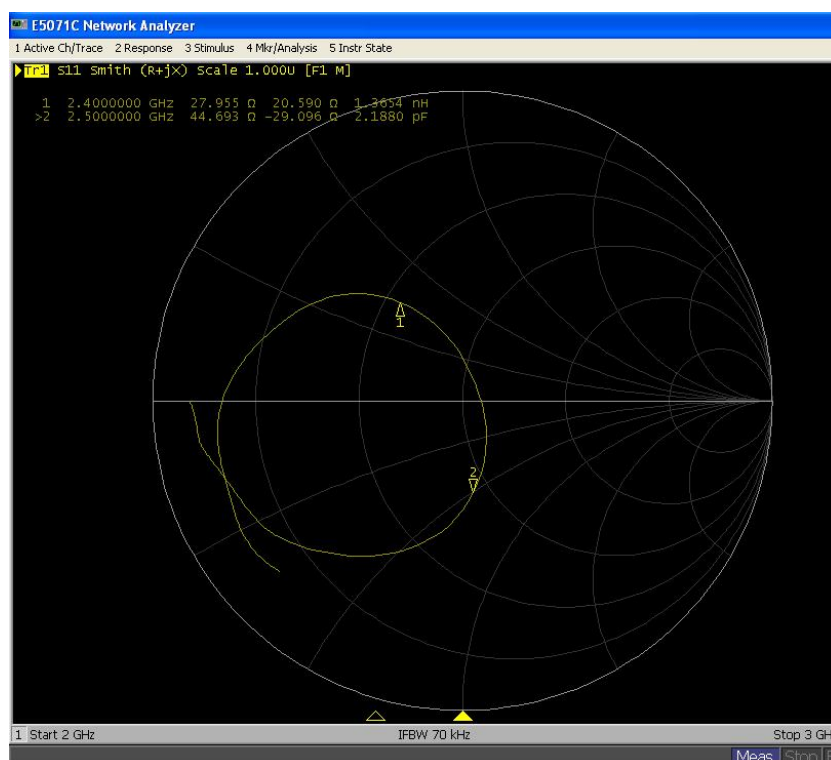
5.1.1 Standing wave ratio diagram



5.1.2 Standing wave ratio data

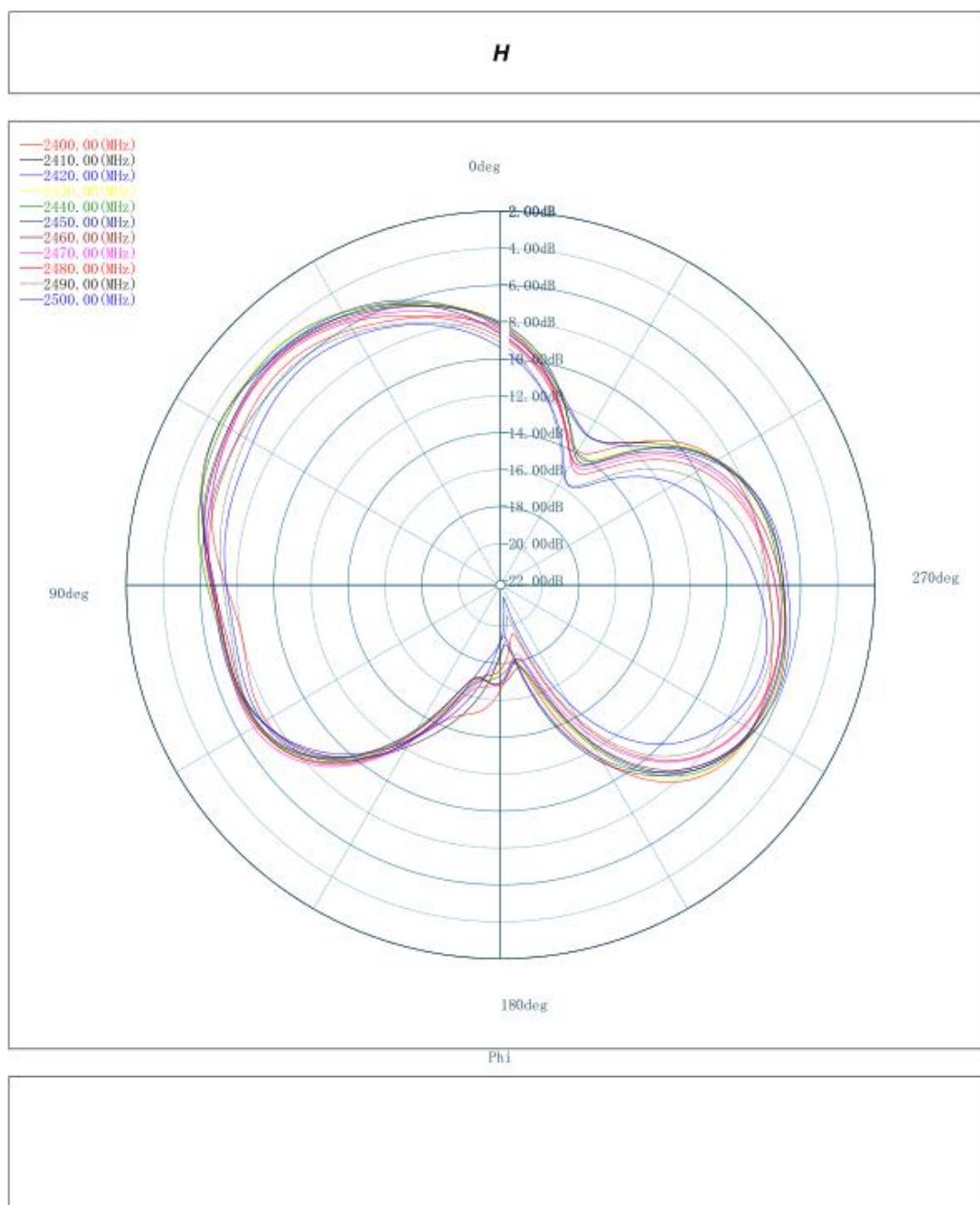
Freq/MHz	2400	2500
VSWR	2.1	1.8

5.2 Smith impedance circle diagram

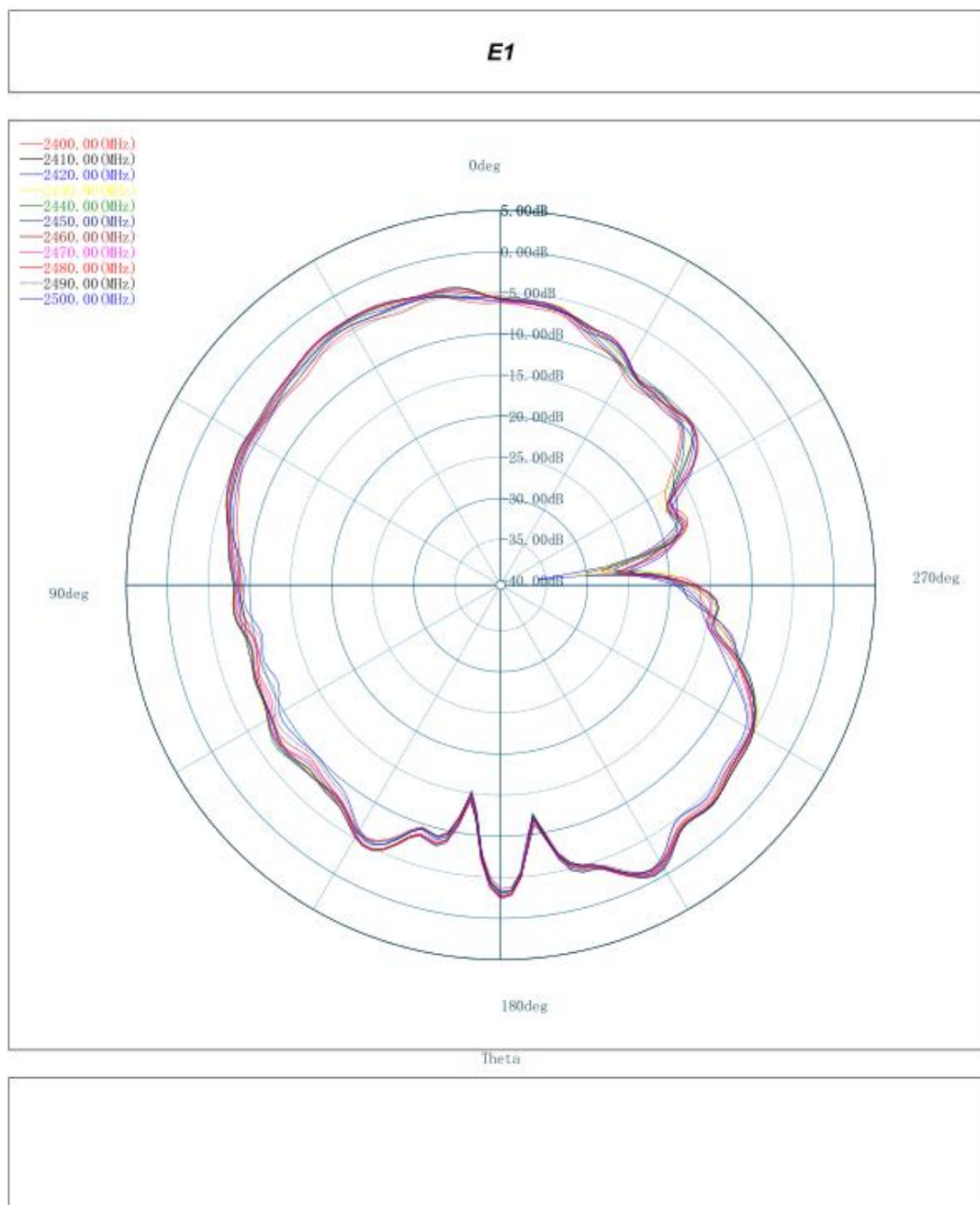


5.3 Radiation pattern

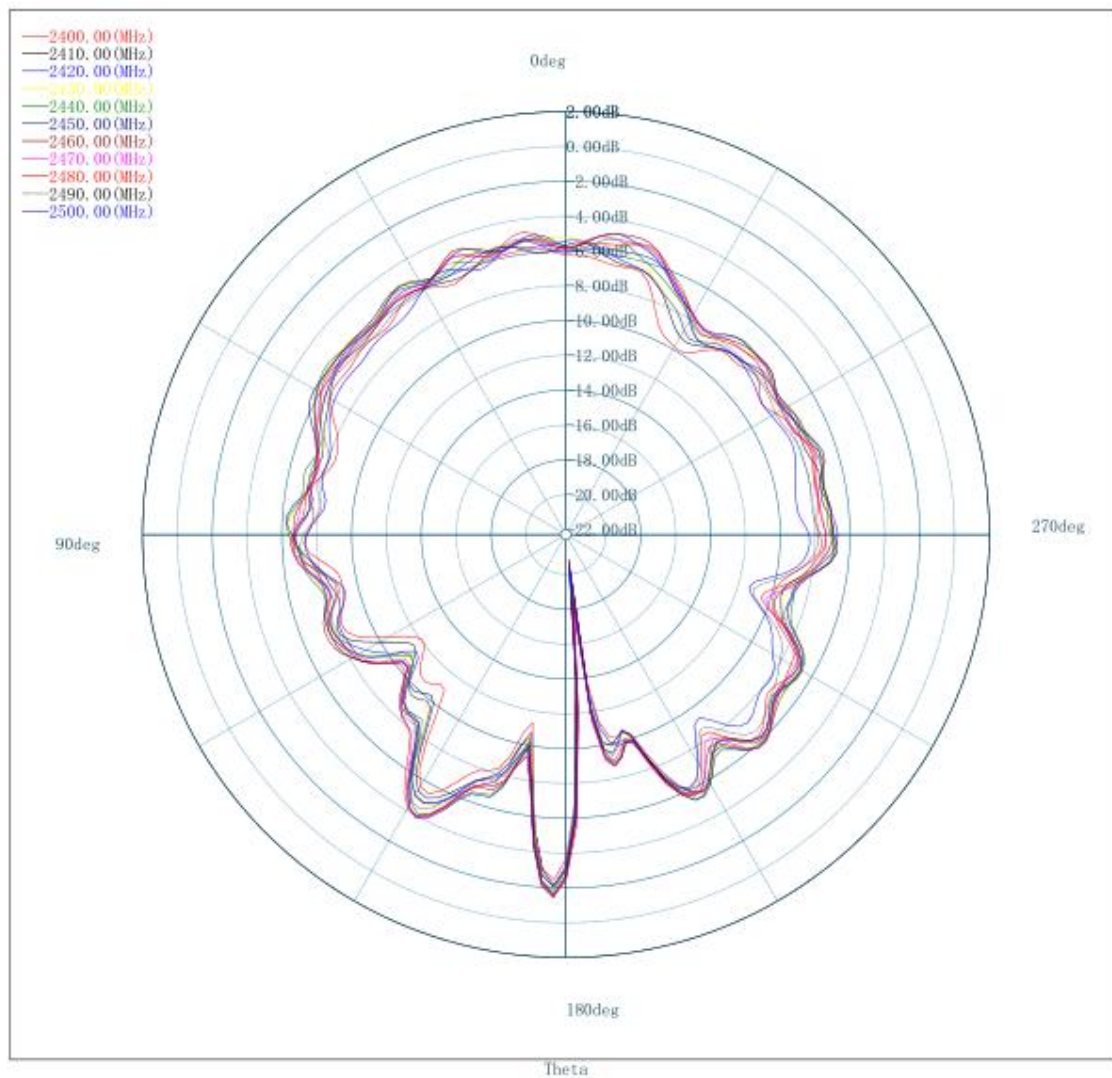
5.3.1 H-plane



5.3.2E-plane



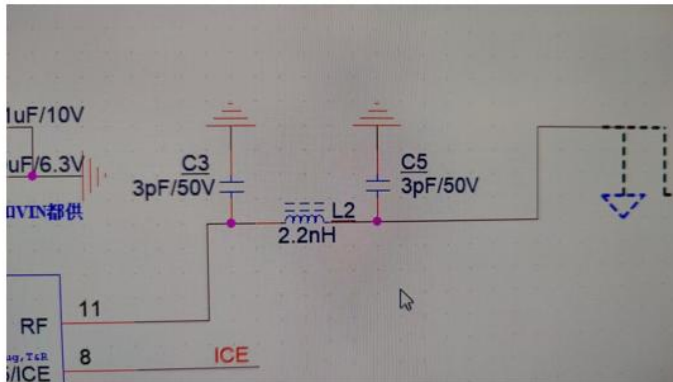
E2



5.4 Gain and efficiency

Frequency [Hz]	Efficiency	Gain [dBi]
2400000000	19%	-1.270760472
2410000000	21%	-1.057468672
2420000000	21%	-0.74330191
2430000000	22%	-0.627288383
2440000000	22%	-0.252705338
2450000000	23%	-0.055529865
2460000000	22%	-0.239072743
2470000000	21%	-0.373808203
2480000000	21%	-0.495050243
2490000000	19%	-0.850972956
2500000000	18%	-1.088121722

6 Impedance matching requirements



C3不动
L2改为2.7nH
C5改为2.7pF

7 Antenna size

