

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT: YAN JI

CUSTOMER P.N. :

PRODUCT NAME. : LTE Antenna

MODEL NO. : 31Y018B-36

SPECIFICATION :

VERSION	DATE	REVISION DESCRIPTION
T:A	2026-7-16	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
BT (2. 4G)	2412MHz~2483MHz
5. 8G	5725MHz~5850MHz

4 Basic testing items

4.1 Standing wave ratio diagram

4.2 Smith impedance diagram

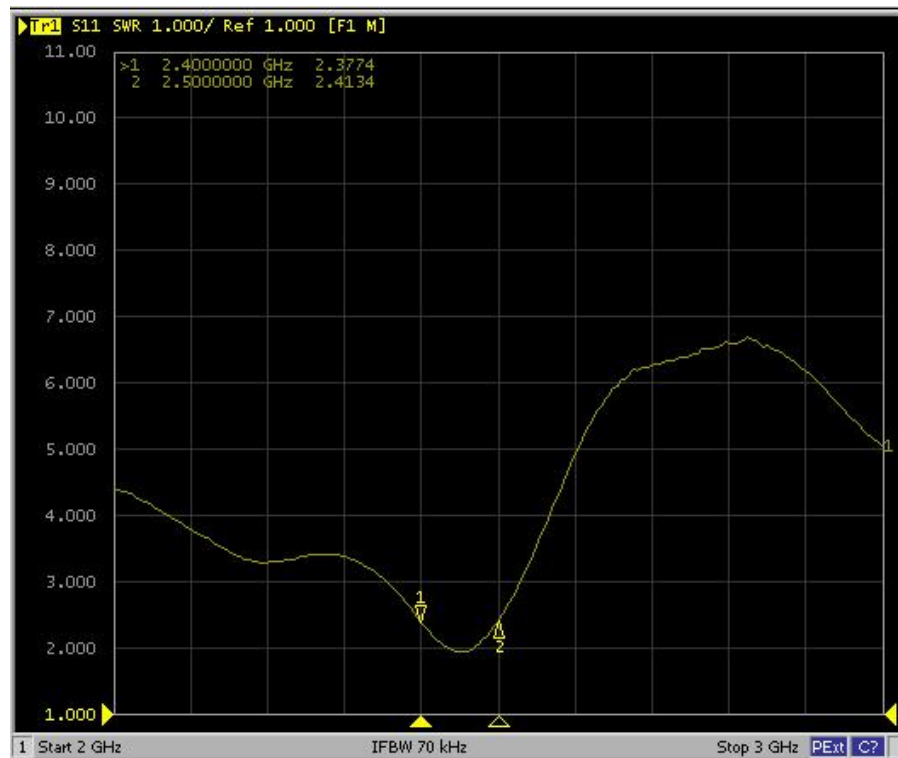
4.3 Radiation pattern

4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

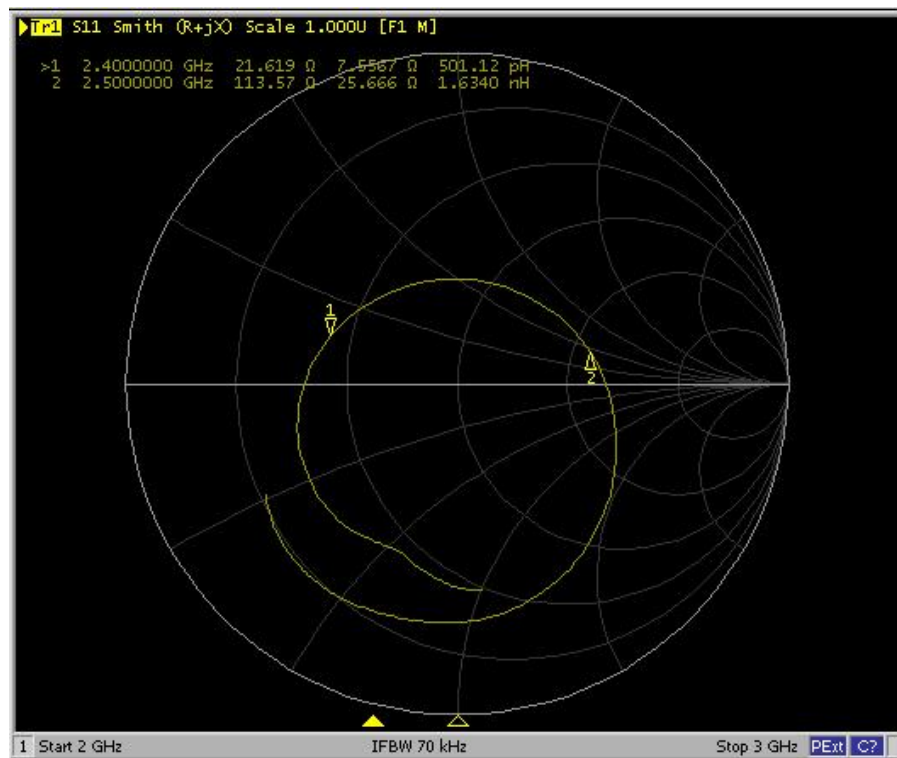
5.1.1 Standing wave ratio diagram



5.1.2 Standing wave ratio data

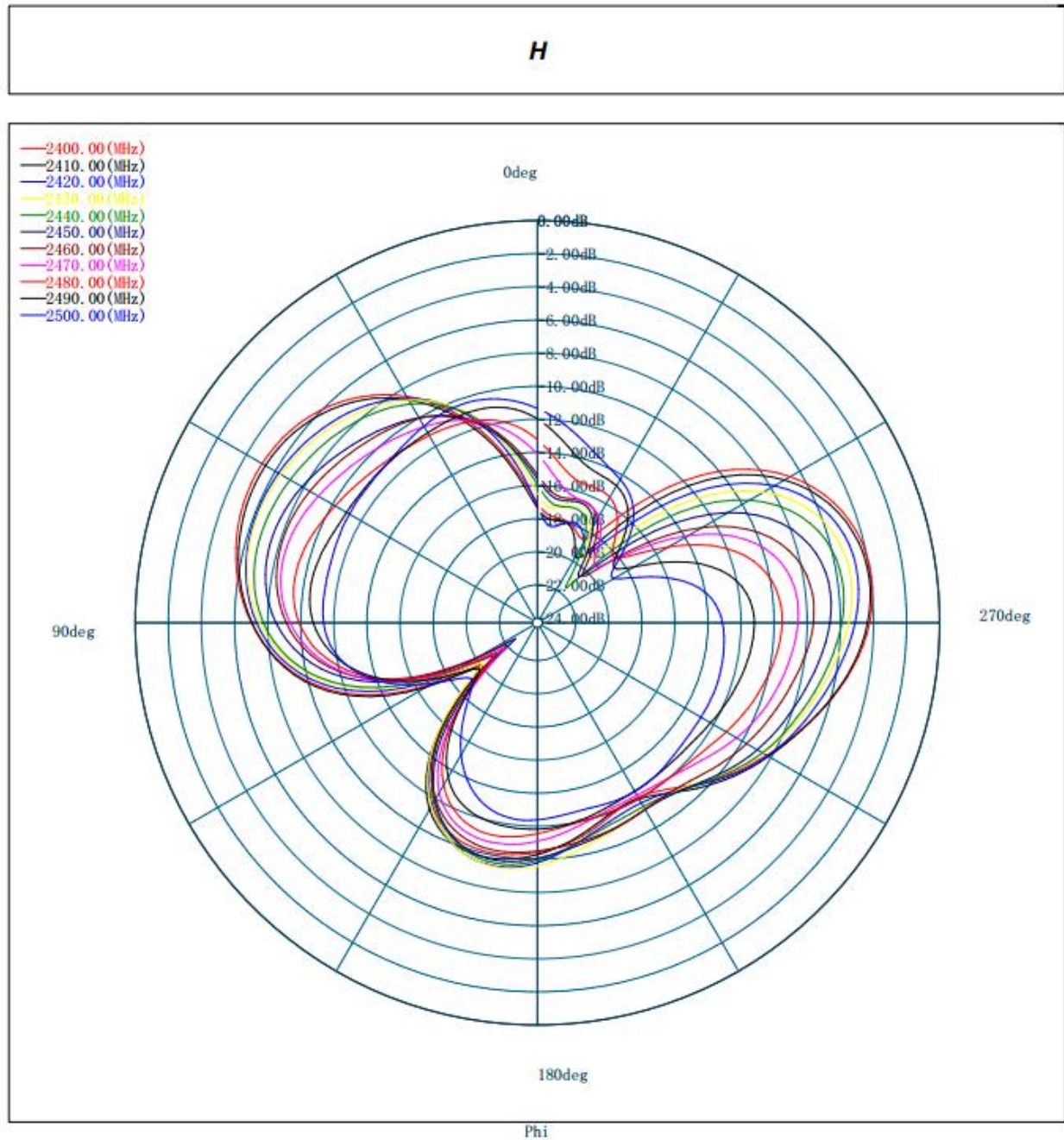
Freq/MHz	2400	2500
VSWR	2.3	2.4

5.2 Smith impedance circle diagram

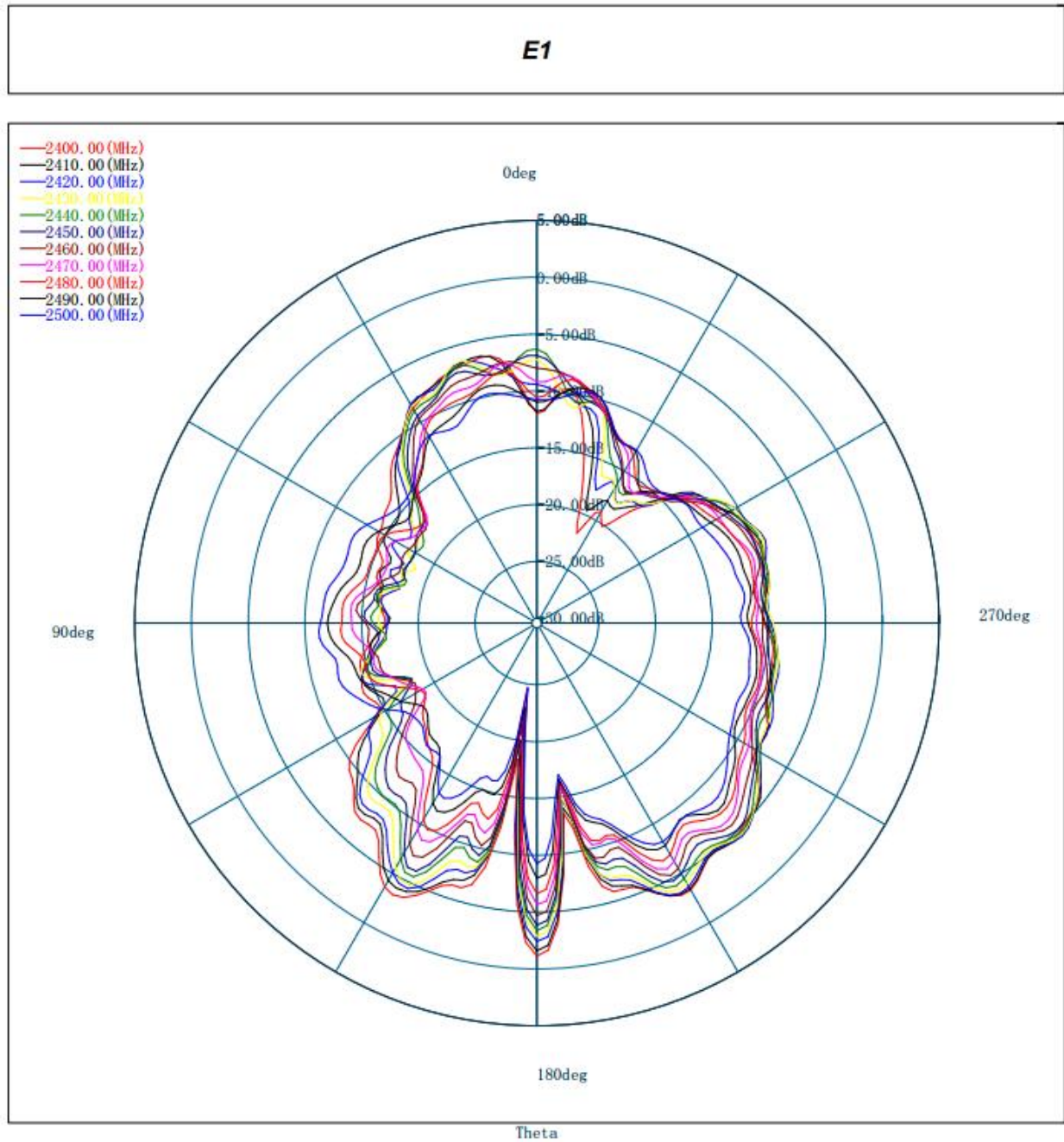


5.3 Radiation pattern

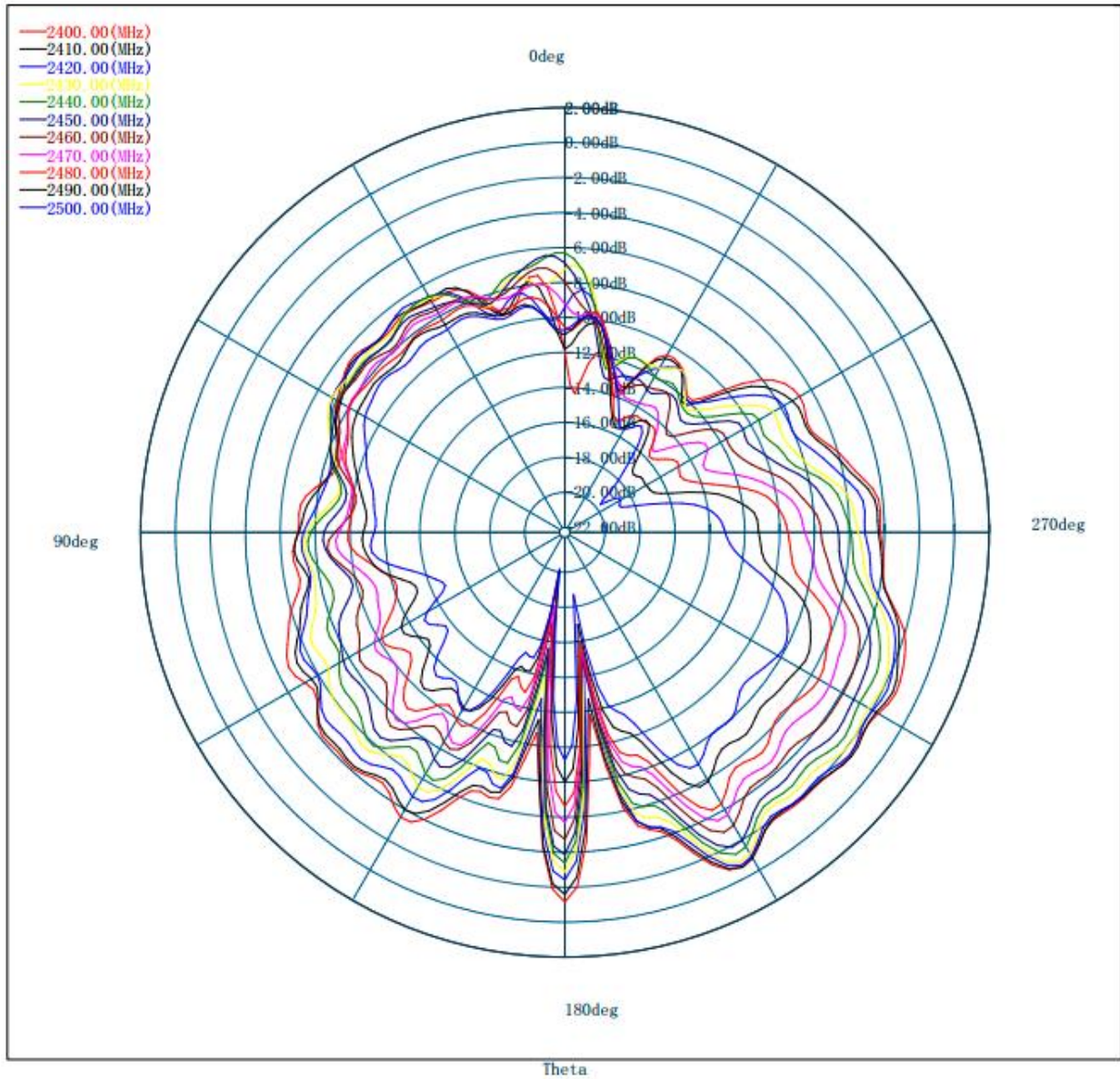
5.3.1 H-plane



5.3.2E-plane



E2



5.4 Gain and efficiency

Frequency [Hz]	Efficiency	Gain [dBi]
2400000000	19%	-0.63632203
2410000000	18%	-0.617989509
2420000000	17%	-0.745095831
2430000000	18%	-0.960726541
2440000000	18%	-1.423416993
2450000000	17%	-1.891840199
2460000000	17%	-1.855022246
2470000000	16%	-1.589151242
2480000000	16%	-2.250548011
2490000000	16%	-2.531950103
2500000000	16%	-2.541320041

6 Environmental treatment suggestions

Environment does not need treatment

7 Impedance matching requirements

Impedance does not need treatment

8 Antenna Outline Drawing

