

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT: YAN JICUSTOMER P.N. : PRODUCT NAME. : LTE AntennaMODEL NO. : 31Y018A-36SPECIFICATION :

VERSION	DATE	REVISION DESCRIPTION
T:A	2026-6-1	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

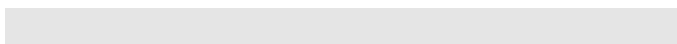
Can be increased or decreased according to actual situation

vector network analyzer

Comprehensive test instrument

GTS darkroom

3 Applicable frequency band



4 Basic testing items

4.1 Standing wave ratio diagram

4.2 Smith impedance diagram

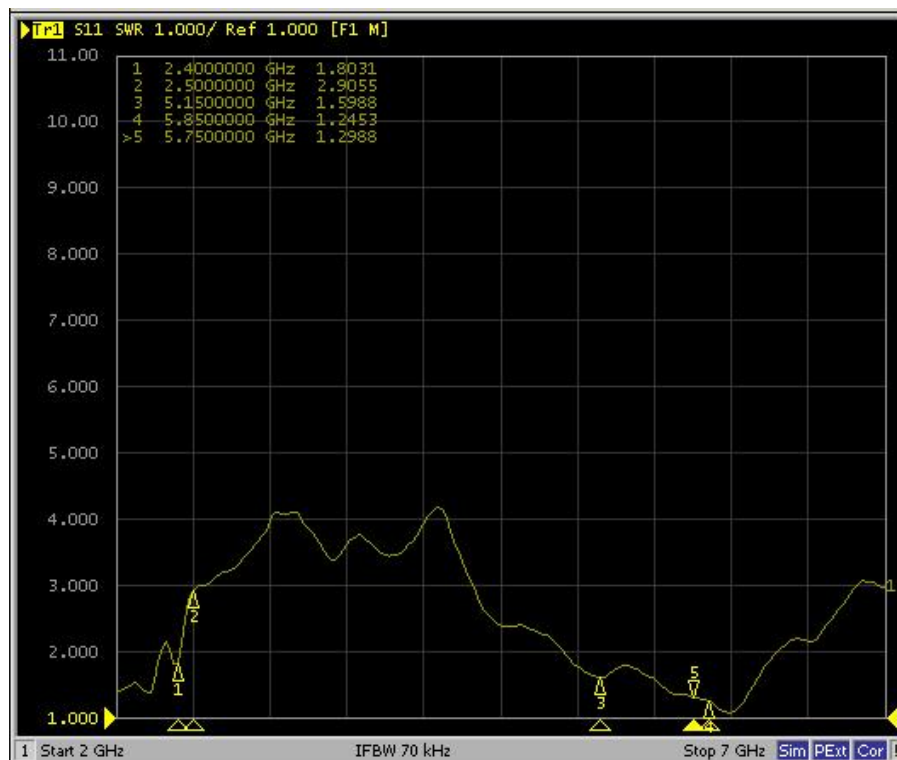
4.3 Radiation pattern

4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

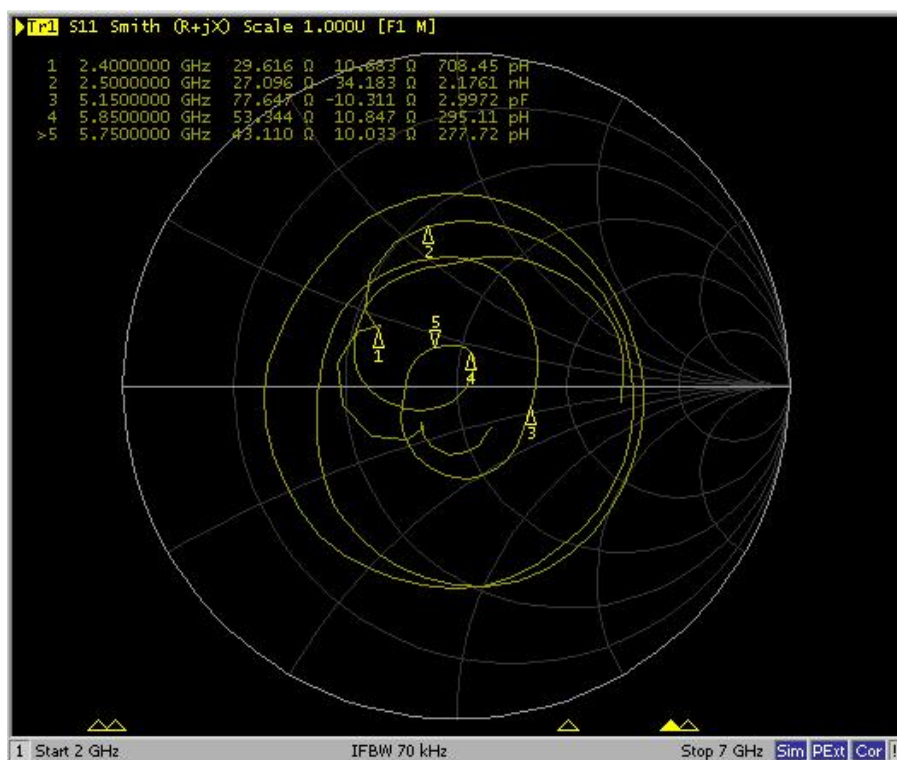
5.1.1 Standing wave ratio diagram



5.1.2 Standing wave ratio data

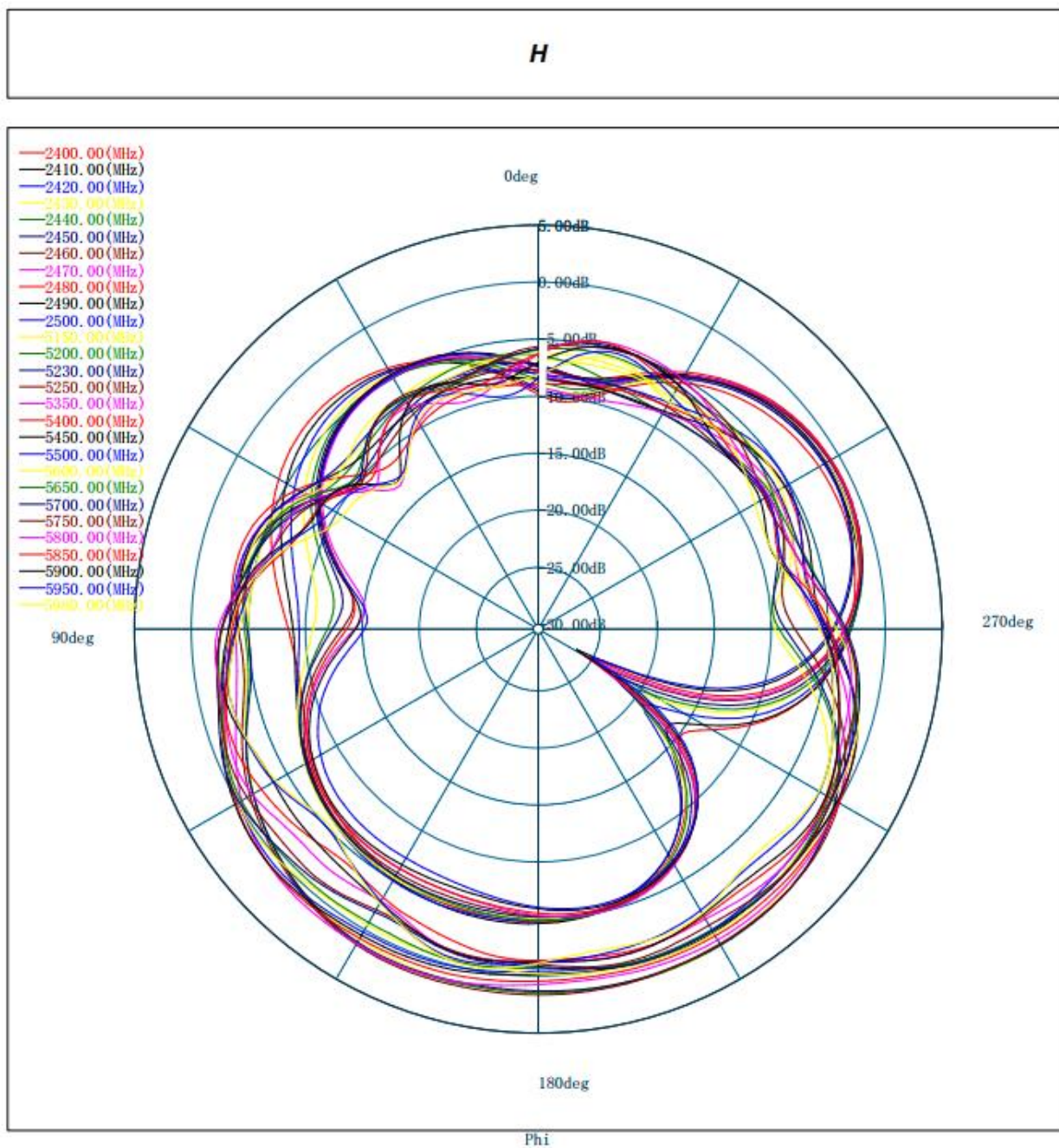
Freq/MHz	2400	2500	5150	5850
VSWR	1.8	2.9	1.5	1.2

5.2 Smith impedance circle diagram

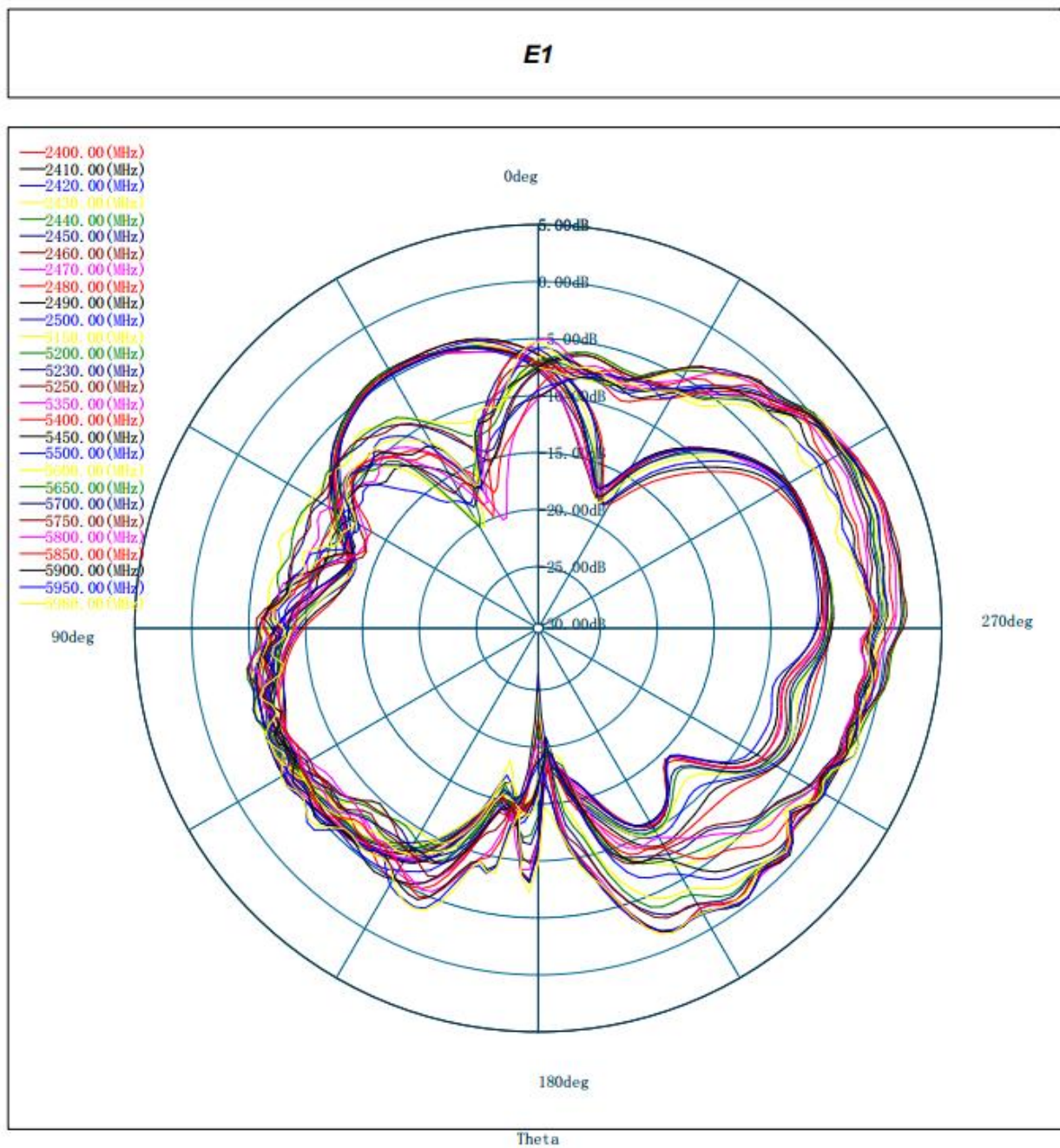


5.3 Radiation pattern

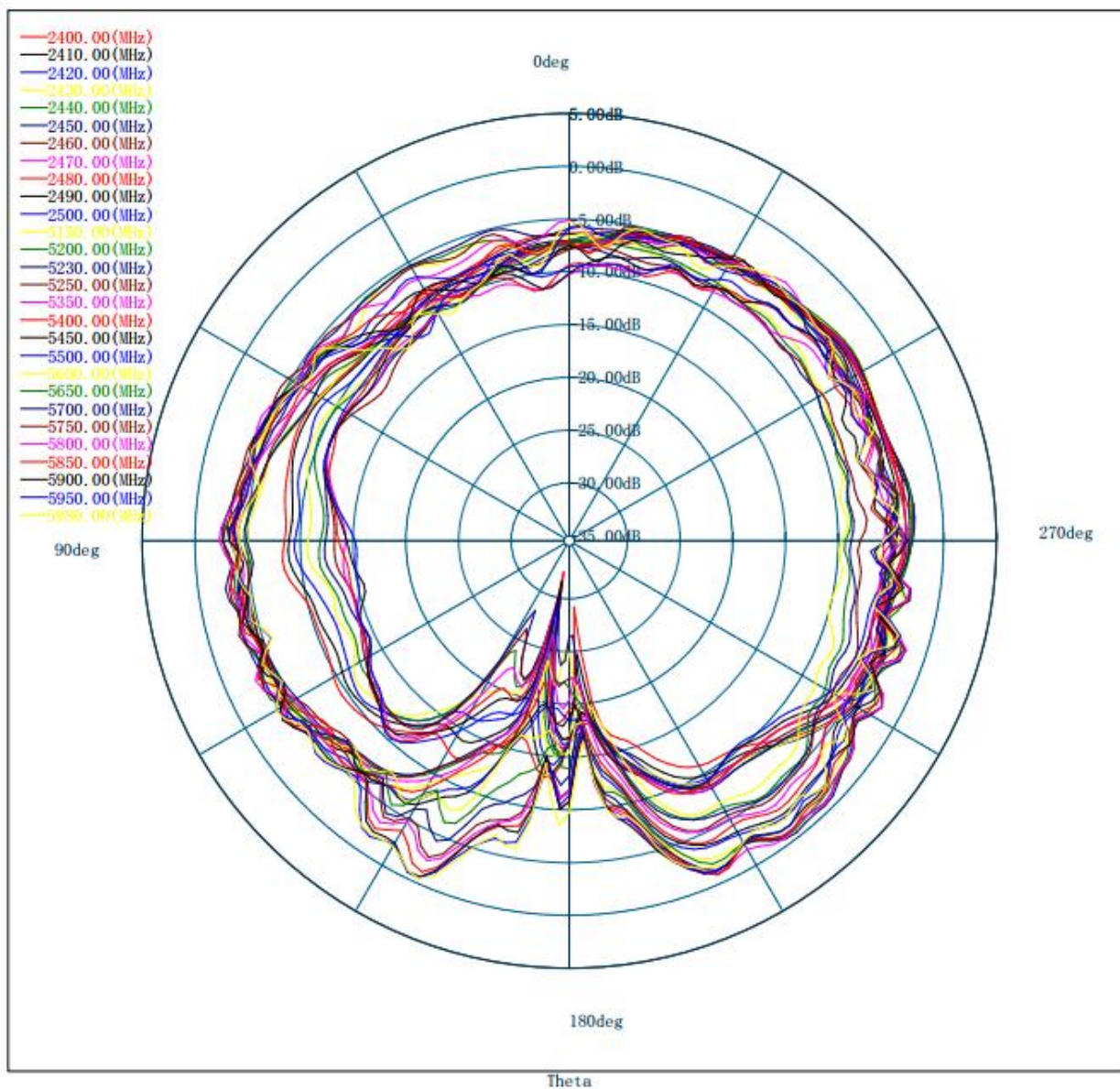
5.3.1 H-plane



5.3.2E-plane



E2



5.4 Gain and efficiency

Frequency [Hz]	Efficiency	Gain [dBi]
2400000000	26%	0.706549352
2410000000	26%	0.673271629
2420000000	26%	0.667376853
2430000000	26%	0.577152689
2440000000	26%	0.554804631
2450000000	26%	0.477628066
2460000000	27%	0.53898333
2470000000	27%	0.51168288
2480000000	28%	0.567540984
2490000000	28%	0.608142096
2500000000	28%	0.563891871
5150000000	52%	4.069327354
5200000000	52%	3.860425472
5230000000	51%	3.55738759
5250000000	51%	3.517752409
5350000000	49%	2.587888718
5400000000	49%	2.283896446
5450000000	50%	1.830929041
5500000000	50%	1.731895566
5600000000	49%	2.192062616
5650000000	51%	2.390985727
5700000000	51%	2.472579479
5750000000	54%	2.533059597
5800000000	54%	2.25343895
5850000000	55%	2.224469662

6 Environmental treatment suggestions

Environment does not need treatment

7 Impedance matching requirements

Impedance does not need treatment

8 Antenna Outline Drawing

