



Shen zhen Golden-Resource Electronic Co.,Ltd.

SPECIFICATION FOR APPROVAL

2025/11/17

Date

25111701

File No

1.0

Revision

SMART ELECTRONIC INDUSTRIAL CO.,LTD.

CUSTOMER: _____

PGD1128FP

CUSTOMER NO: _____

BT Antenna

PART NAME: _____

YJ029W.300201.W02

SUPPLIER NO: _____

Date:

Q “TY: PCS

CUSTOMER APPROVED BY

APPROVAL

CHIEF

SUPERVISOR

SUPPLIER SIGNATURE

APPROVAL

CHECK

DESIGN

ChenGuoqiang

ZhangLiquan

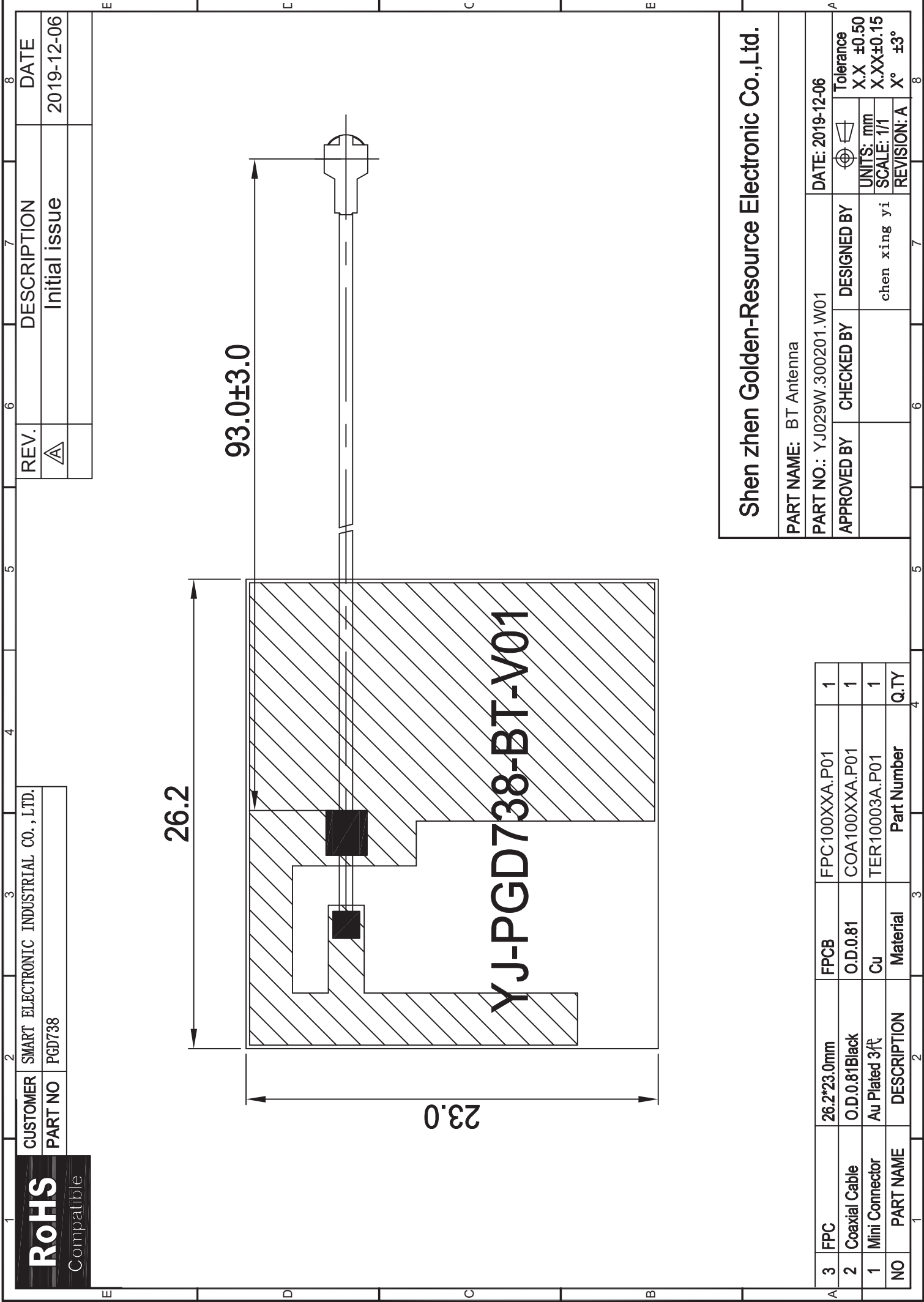
ChenXingcheng

YJ-RD-F04-A



Spec Item

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RoHS
Compatible

CUSTOMER	SMART ELECTRONIC INDUSTRIAL CO., LTD.
PART NO	PGD738

REV.	DESCRIPTION	DATE
A	Initial issue	2019-12-06

Shen zhen Golden-Resource Electronic Co.,Ltd.

PART NAME: BT Antenna

PART NO.: YJ029W.300201.W01

DATE: 2019-12-06

APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance
		chen xing yi		

UNITS: mm	X.X ±0.50
SCALE: 1/1	X.XX±0.15
REVISION: A	X° ±3°

3	FPC	26.2*23.0mm	FPCB	FPC100XXA.P01	1
2	Coaxial Cable	O.D.0.81Black	O.D.0.81	COA100XXA.P01	1
1	Mini Connector	Au Plated 3代	Cu	TER10003A.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



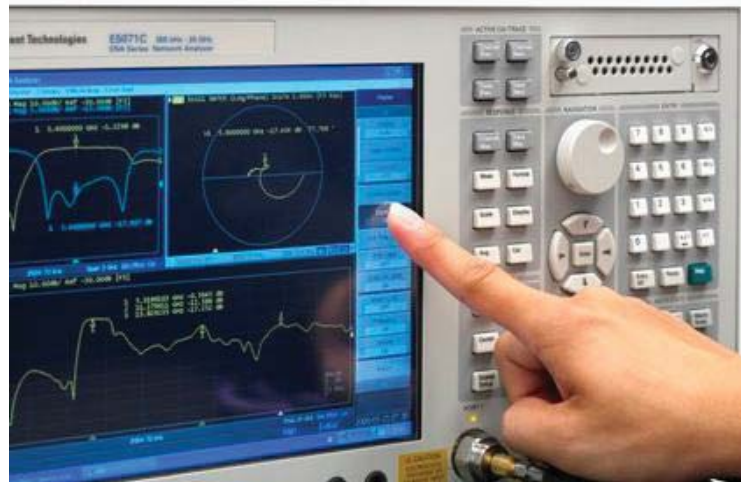
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2.9dBi
Polarization	Linear
Connector	None
Physical Properties	
Antenna Material	FPC
Cable Type	O.D.0.81mm//L=73mm
Operating Temp.	-40~+85 °C
Storage Temp.	40~ +85 °C
Cable Color	Black

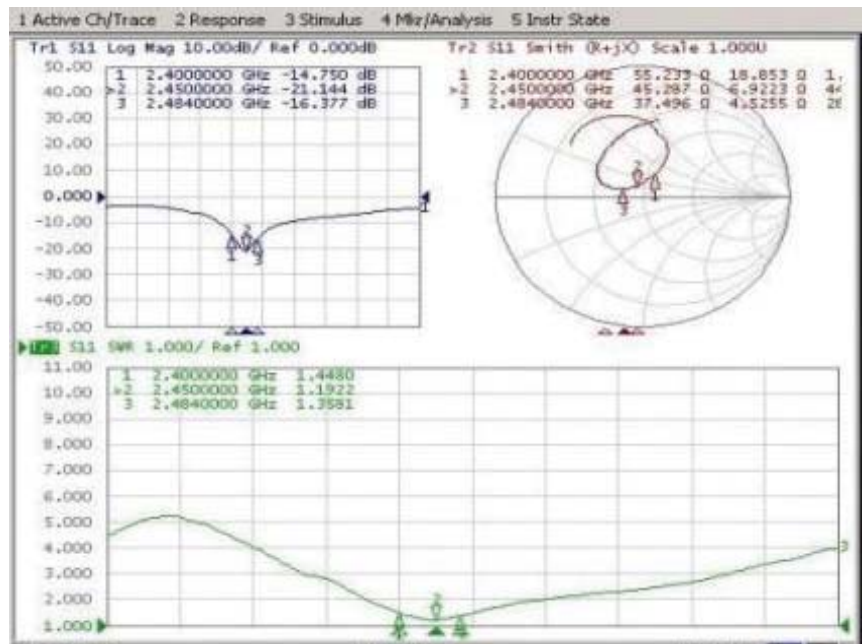


Antenna Performance Test

**Agilent
E5071B**

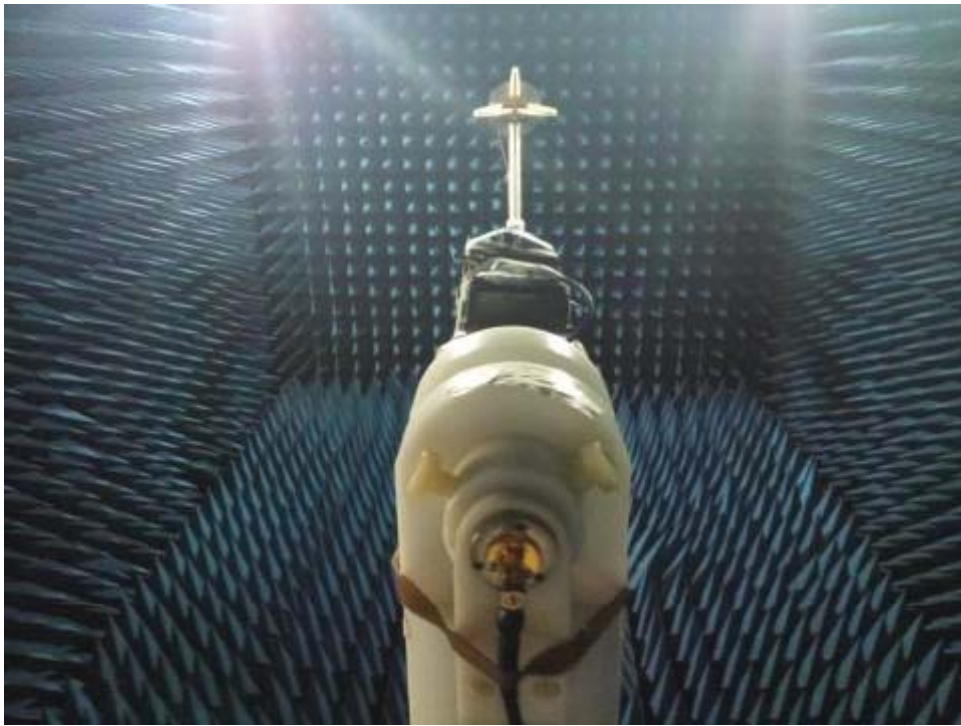


**S
Parameter
Test //
BT**





Antenna Passive Test



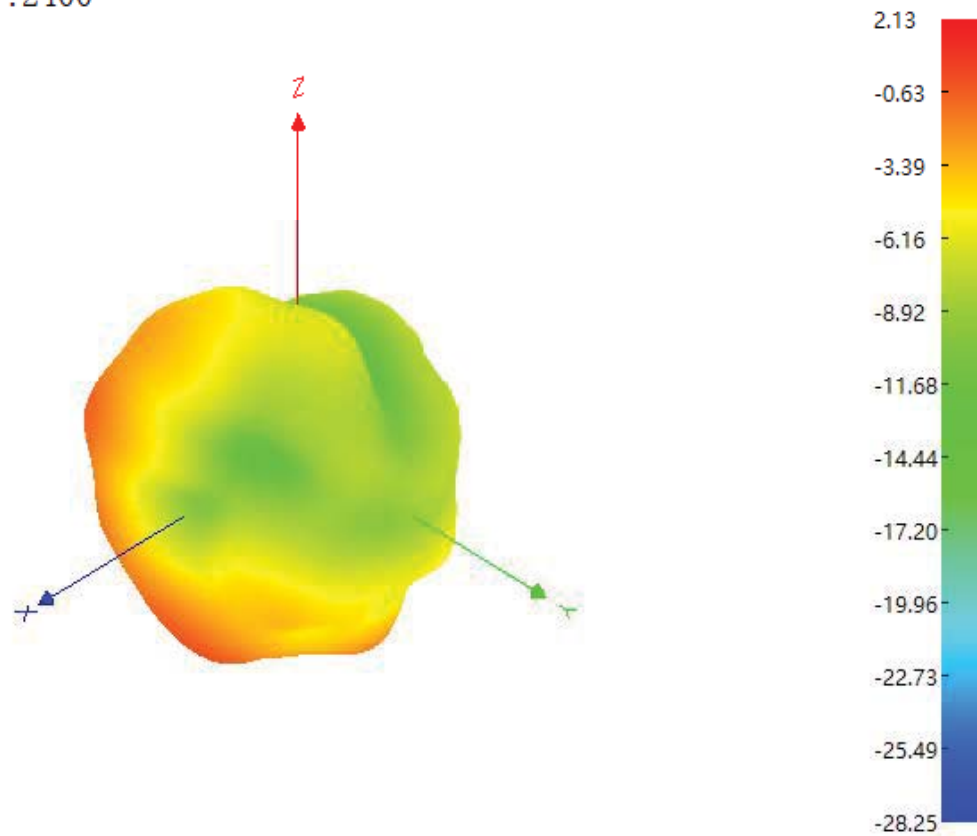


Passive Test For BT Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	37.0	-4.3	2.13
2410	36.4	-4.4	2.1
2420	36.0	-4.4	2.1
2430	36.7	-4.4	2.3
2440	34.4	-4.6	1.9
2450	37.7	-4.2	2.38
2460	40.1	-4.0	2.5
2470	44.1	-3.6	2.9
2480	43.7	-3.6	2.7
2490	44.9	-3.5	2.7
2500	40.7	-3.9	2.3



Radiation Pattern For BT Antenna (2400MHz)

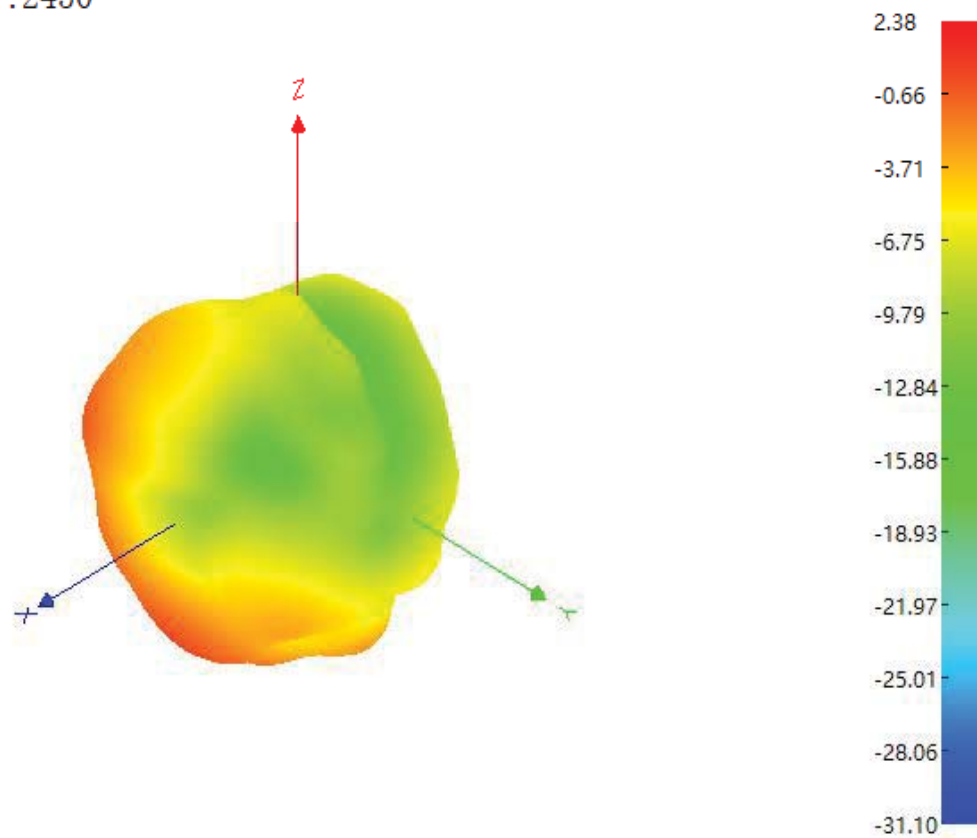
Frequency (MHz) : 2400





Radiation Pattern For BT Antenna (2450MHz)

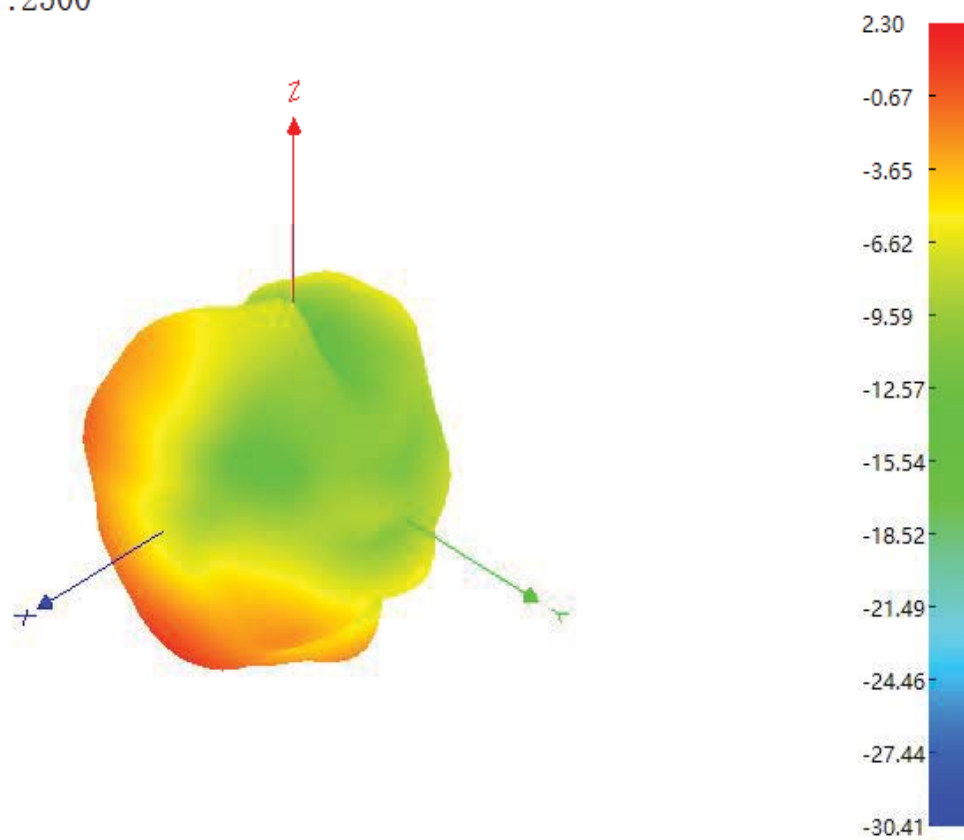
Frequency (MHz) : 2450





Radiation Pattern For BT Antenna (2500MHz)

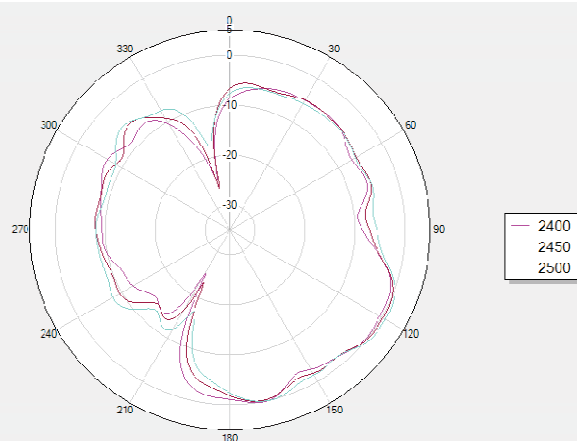
Frequency (MHz) : 2500



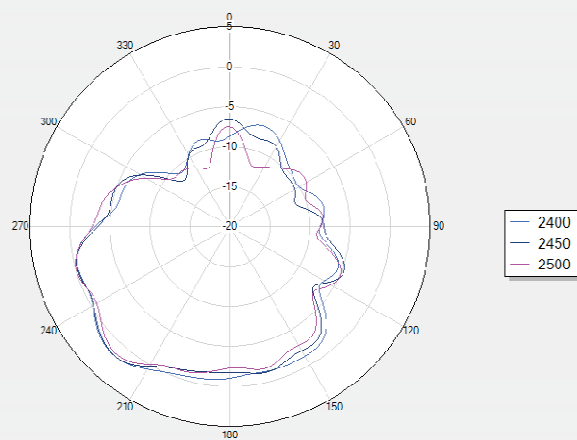


Radiation Pattern For BT Antenna

Phi 0°



Phi 90°



Theta 90°

