



# Antenna Part Specification

Project name:	GW122
Antenna material:	BT Antenna
Antenna type:	Dipole antenna
Version:	V2.0
Date:	2024.03.07
Supplier:	Shenzhen Cicent Communication Technology Co., Ltd.
Supplier Address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
PN:	102BK3F1438



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.01.30	First edition	First edition	V1.0
2024.03.07	Antenna optimization	RF optimized circuit	V2.0

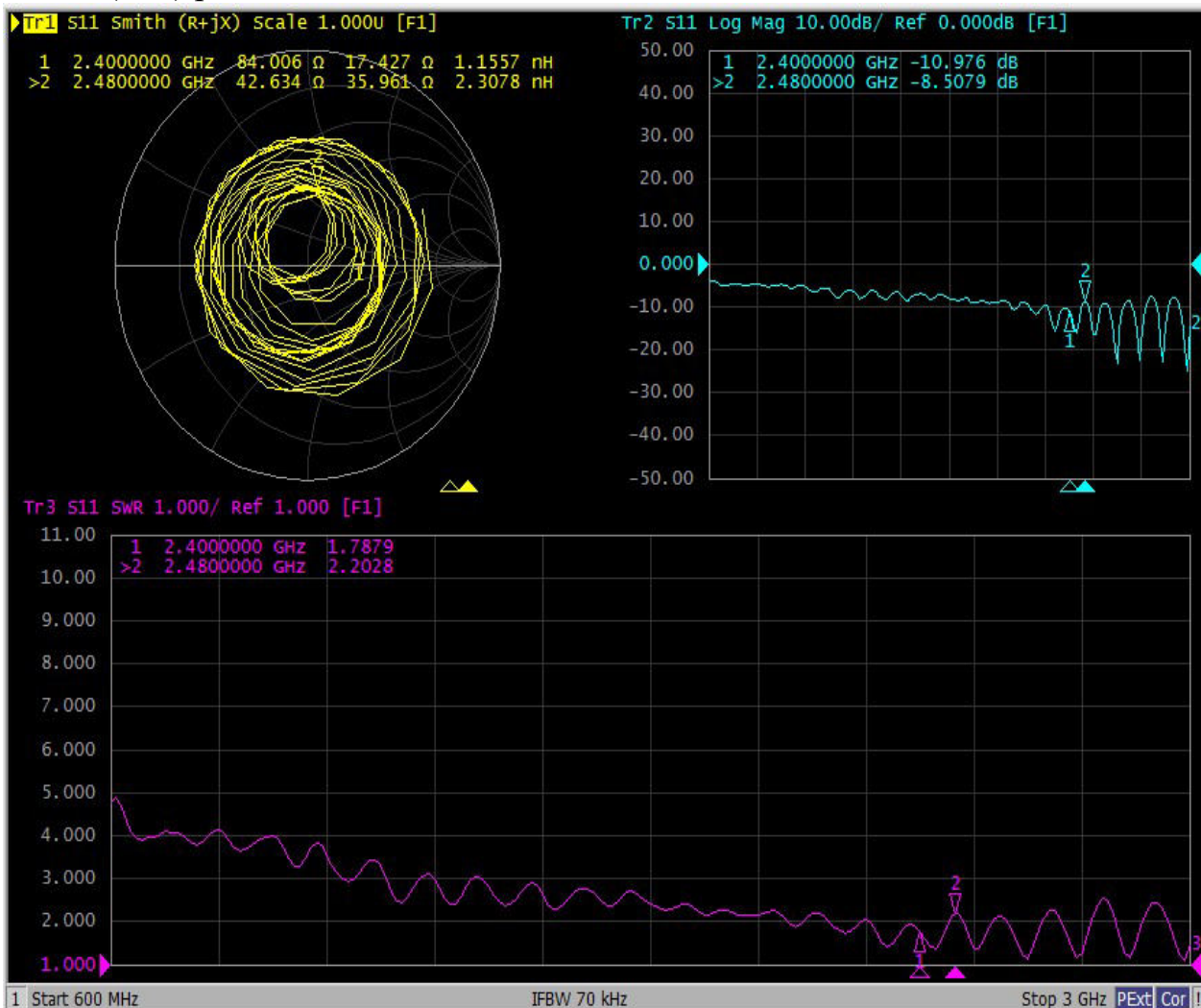


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter:



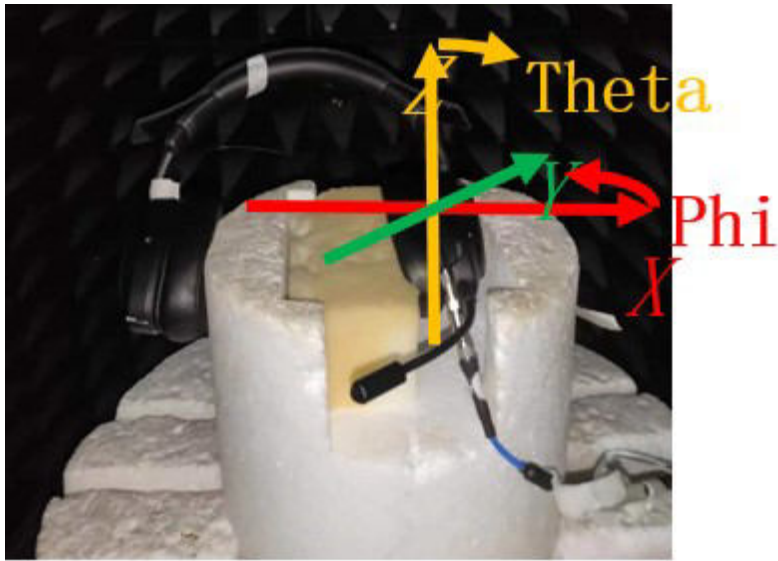


Efficiency:

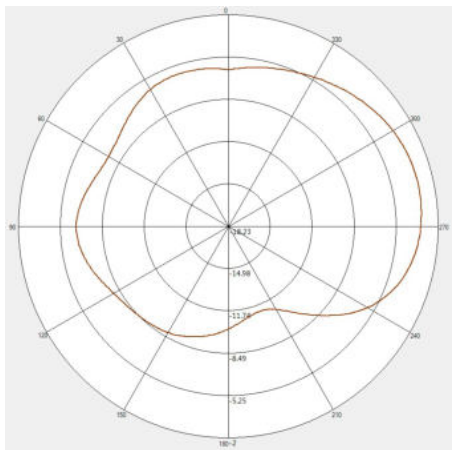
BT			
Frequency (MHz)	Gain (dBi)	Efficiency (dB )	Efficiency
2400	-3.2	-7.7	16.8%
2410	-3.1	-7.6	17.4%
2420	-2.1	-6.9	20.6%
2430	-1.9	-6.7	21.5%
2440	-1.6	-6.5	22.4%
2450	-1.8	-6.8	21.1%
2460	-2.2	-7.2	19.2%
2470	-2.2	-7.3	18.8%
2480	-2.7	-7.6	17.4%
Average value	-2.3	-7.1	19.5%



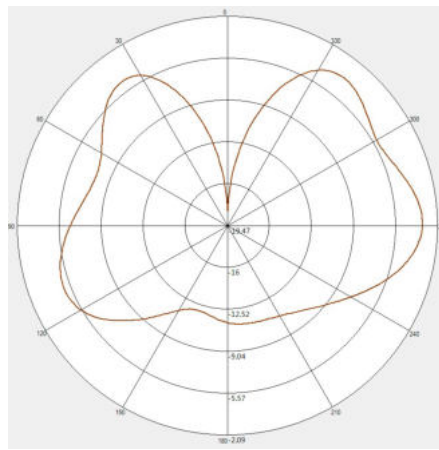
Mark the relative position of DUT XYZ



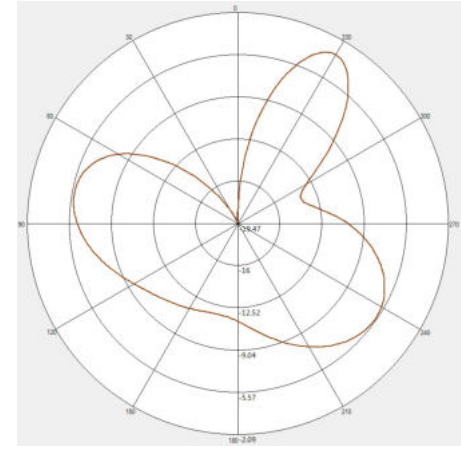
Radiation Pattern @ 2400 MHz (unit: dBi) in FreeSpace  
2D



XY

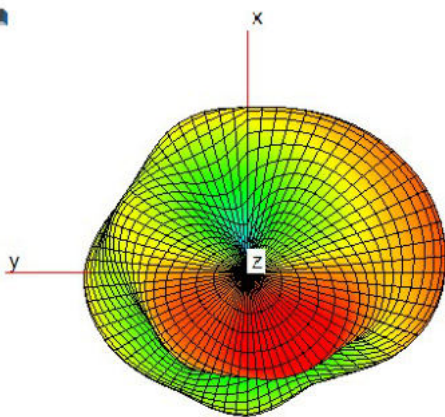


YZ

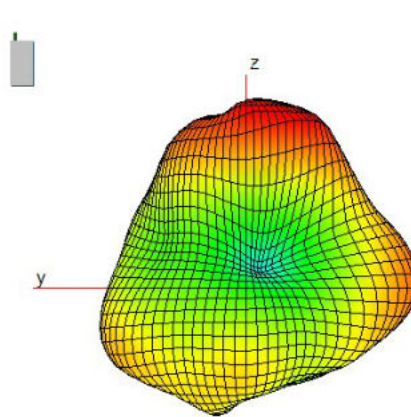


XZ

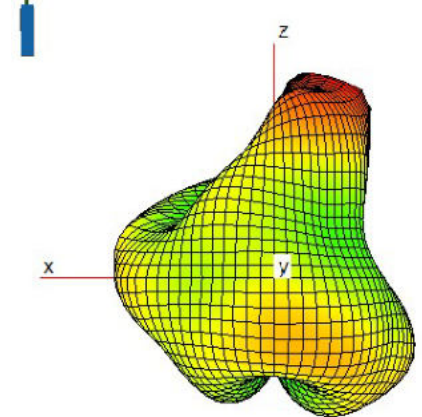
3D



XY



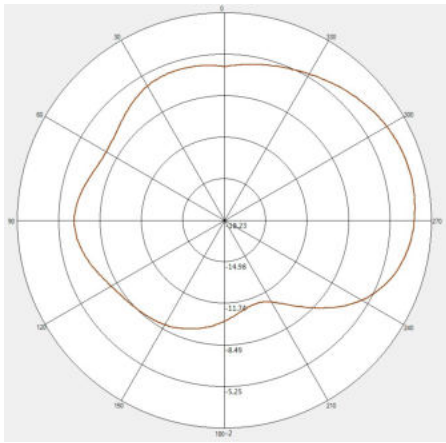
YZ



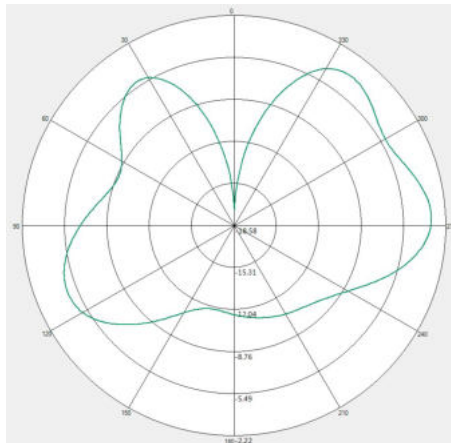
XZ



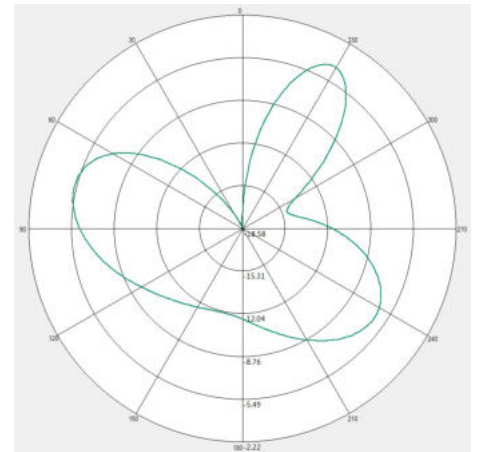
Radiation Pattern @ 2440 MHz (unit: dBi) in FreeSpace  
2D



XY

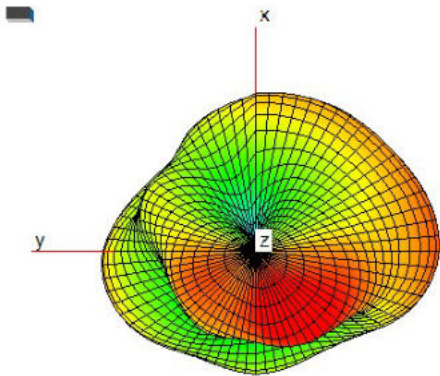


YZ

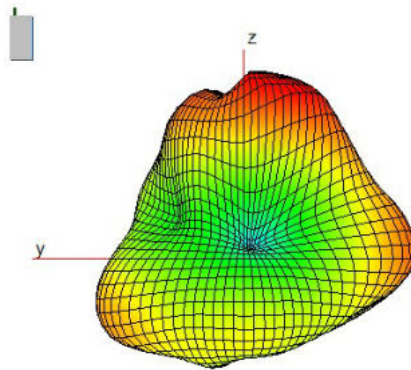


XZ

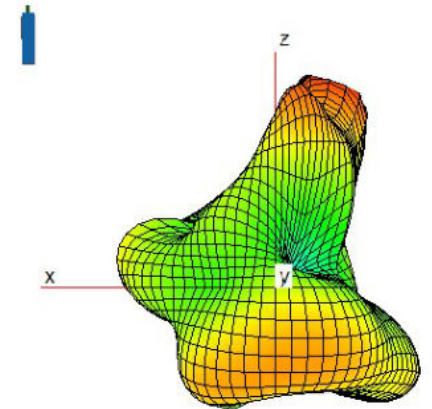
3D



XY



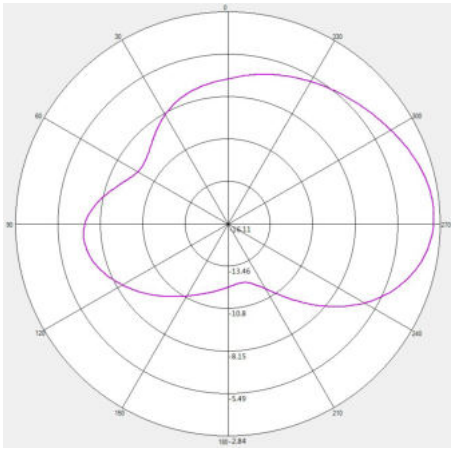
YZ



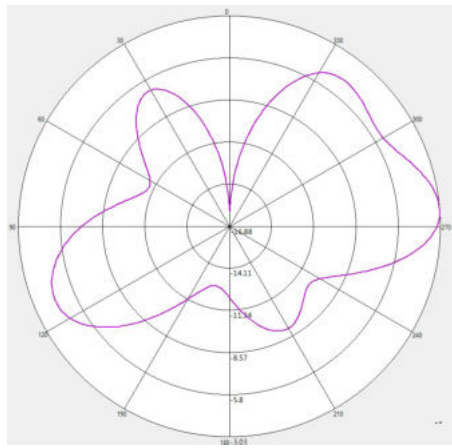
XZ



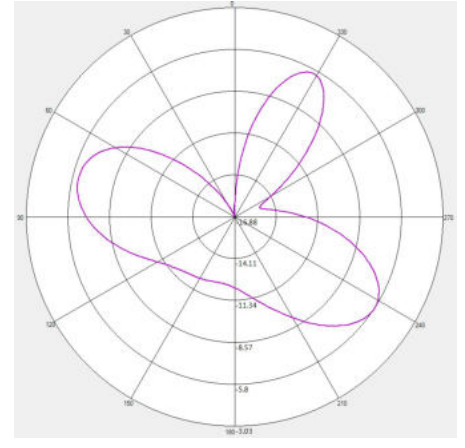
Radiation Pattern @ 2480 MHz (unit: dBi) in FreeSpace  
2D



XY

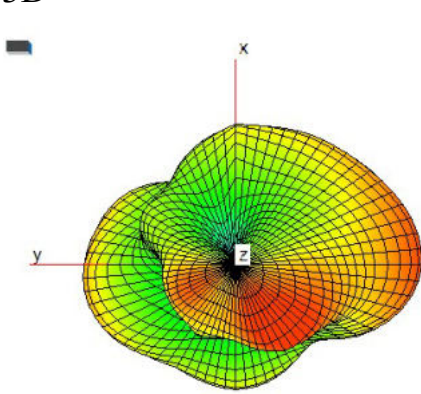


YZ

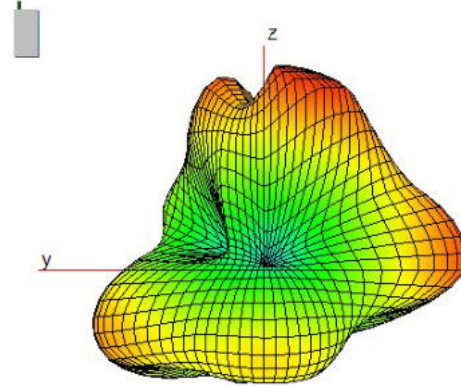


XZ

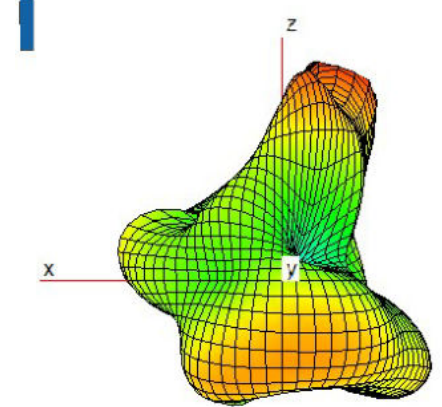
3D



XY



YZ

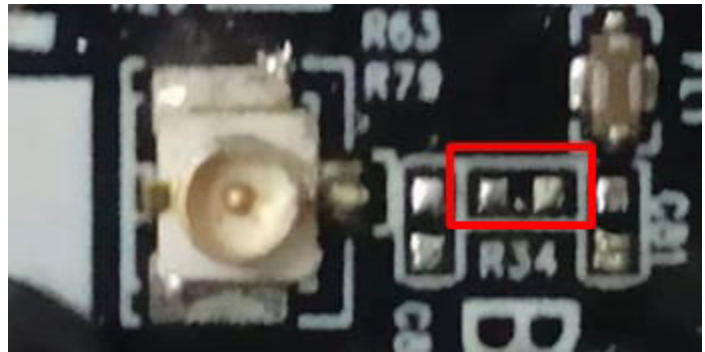
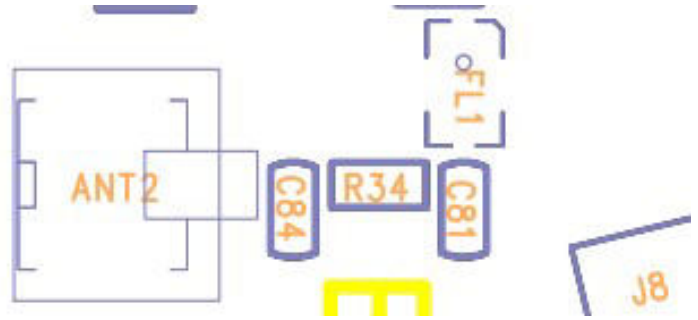


XZ



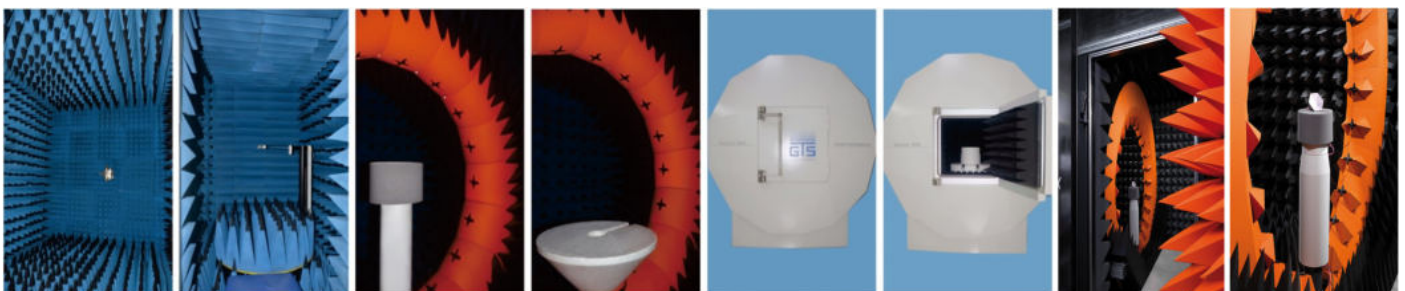
II: Matching circuit

Location	Value
C84	N/A
R34	0Ω
C81	N/A



III: 3D Active test report of antenna

	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	-1.4	-85.0
	CH 39	-0.9	-85.1
	CH 78	-0.9	-85.2



OTA Standard Chambe





IV: Structure file

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