



Antenna Part Specification

Project name:	GW122
Antenna material:	FPC welding coaxial line(2.4G)
Antenna type:	PIFA antenna
Version:	V1.0
Date:	2024.01.30
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:	102BK3E1440



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.01.30	First edition	First edition	V1.0

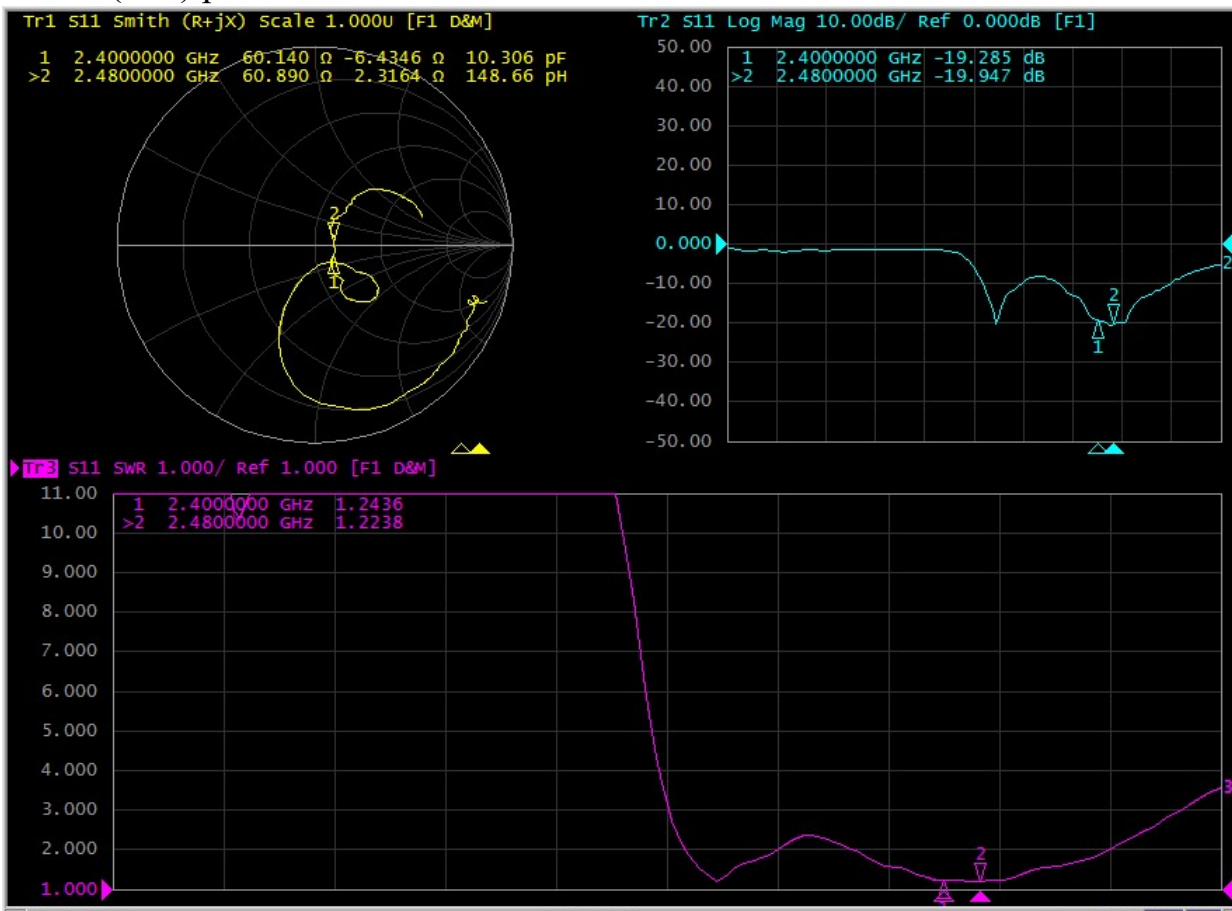


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter:



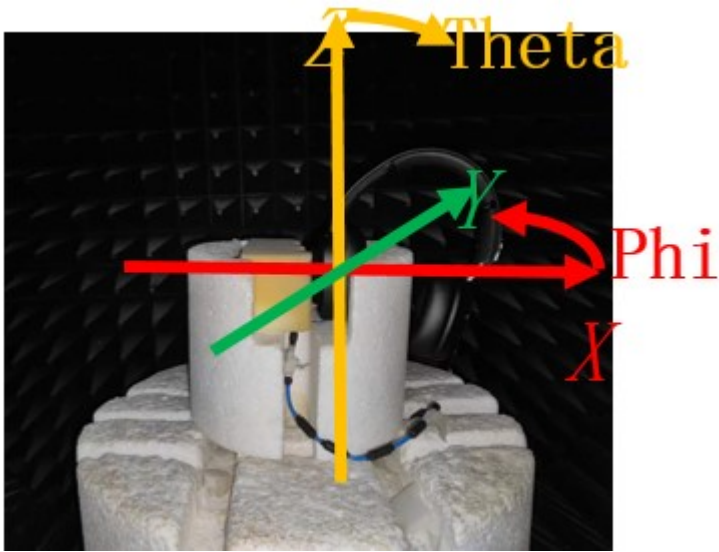


Efficiency:

2.4G			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	0.9	-3.0	49.7%
2410	1.3	-2.7	53.8%
2420	1.8	-2.4	57.0%
2430	2.0	-2.5	56.2%
2440	2.0	-2.7	54.1%
2450	2.1	-2.7	54.0%
2460	2.0	-3.0	50.3%
2470	2.1	-3.0	50.4%
2480	2.1	-3.1	48.8%
Average value	1.8	-2.8	52.7%

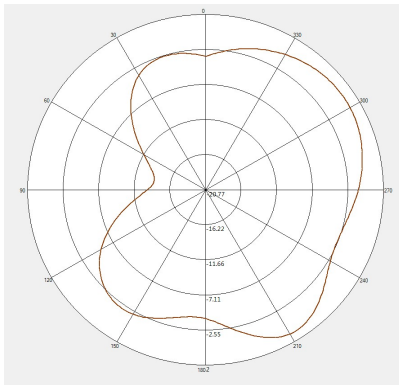


Mark the relative position of DUT XYZ

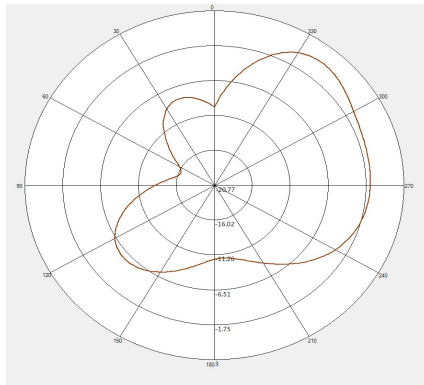


Radiation Pattern @ 2400MHz (unit: dBi) in FreeSpace

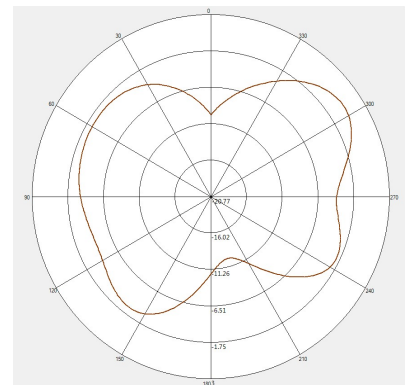
2D



XY

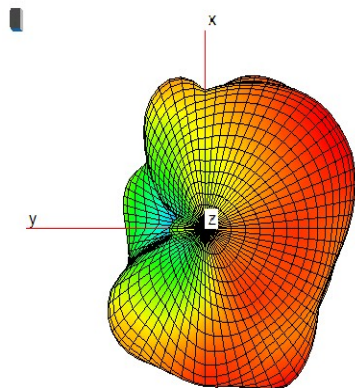


YZ

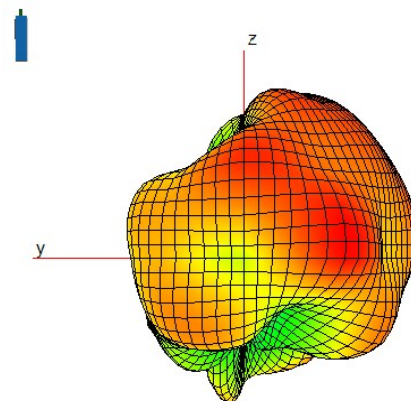


XZ

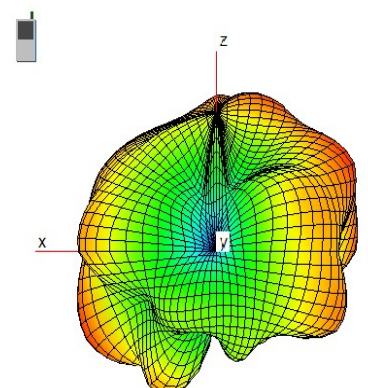
3D



XY



YZ

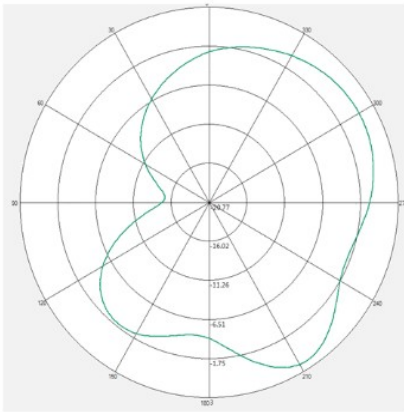


XZ

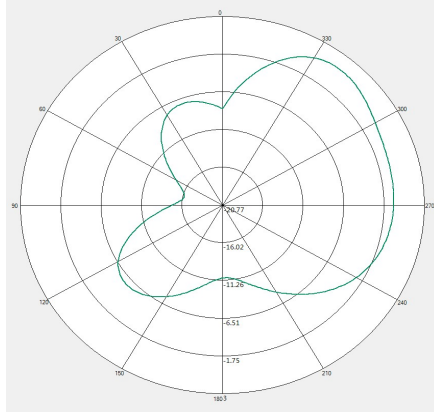


Radiation Pattern @ 2440MHz (unit: dBi) in FreeSpace

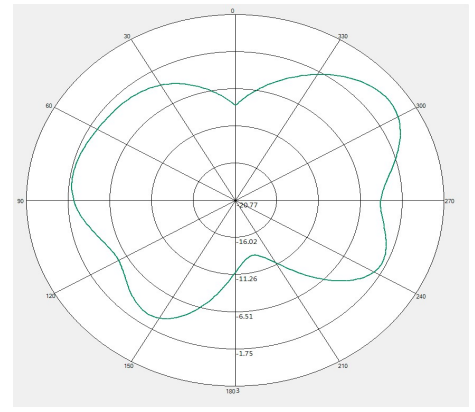
2D



XY

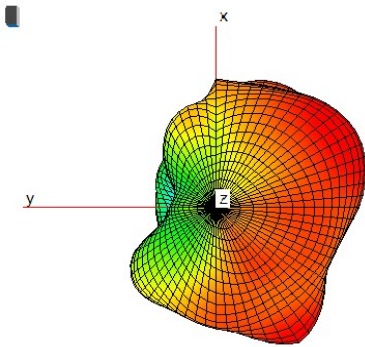


YZ

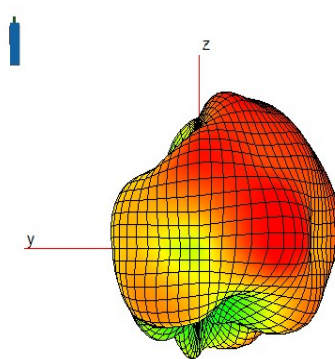


XZ

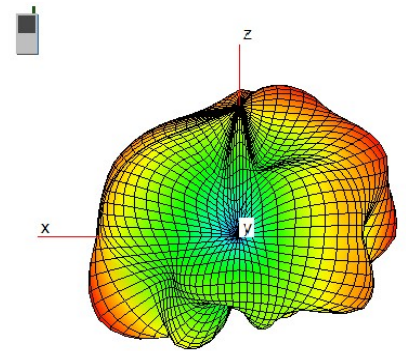
3D



XY



YZ



XZ

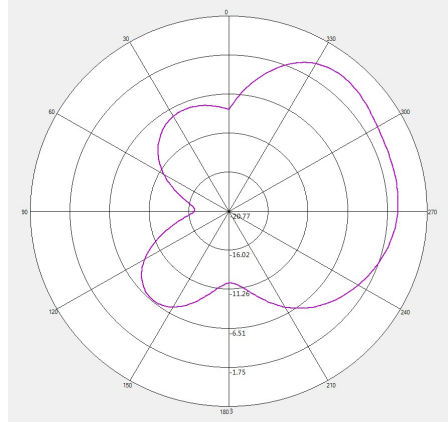


Radiation Pattern @ 2480MHz (unit: dBi) in FreeSpace

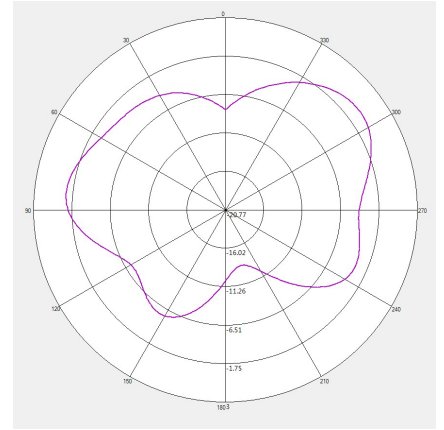
2D



XY

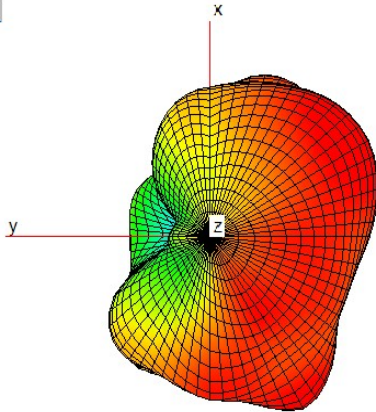


YZ

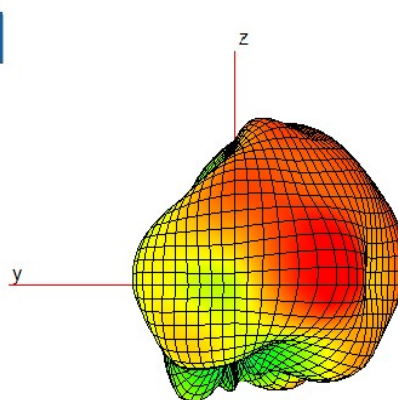


XZ

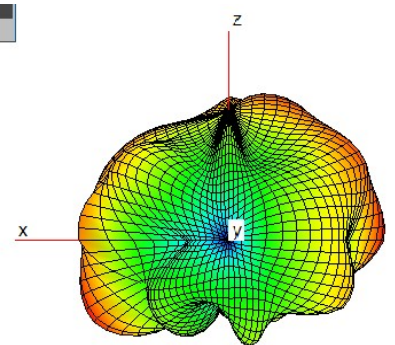
3D



XY



YZ

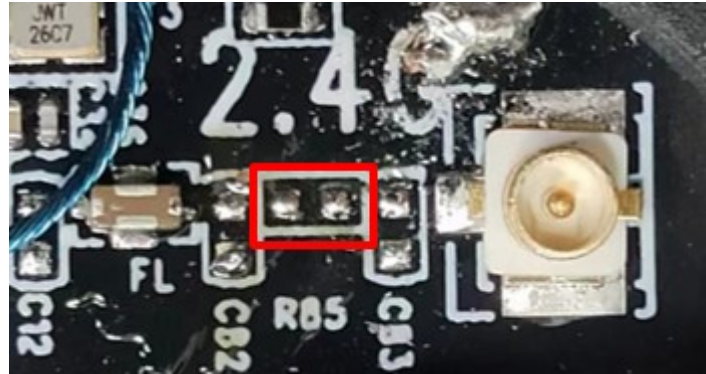
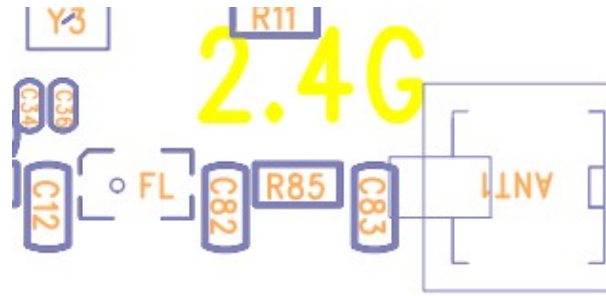


XZ



II: Matching circuit

Location	Value
C83	N/A
R85	0Ω
C82	N/A



III: 3D Active test report of antenna

	Channel	TRP (dBm)	TIS (dBm)
2.4G	CH 0	7.8	-94.2
	CH 39	8.8	-94.5
	CH 78	8.7	-94.6



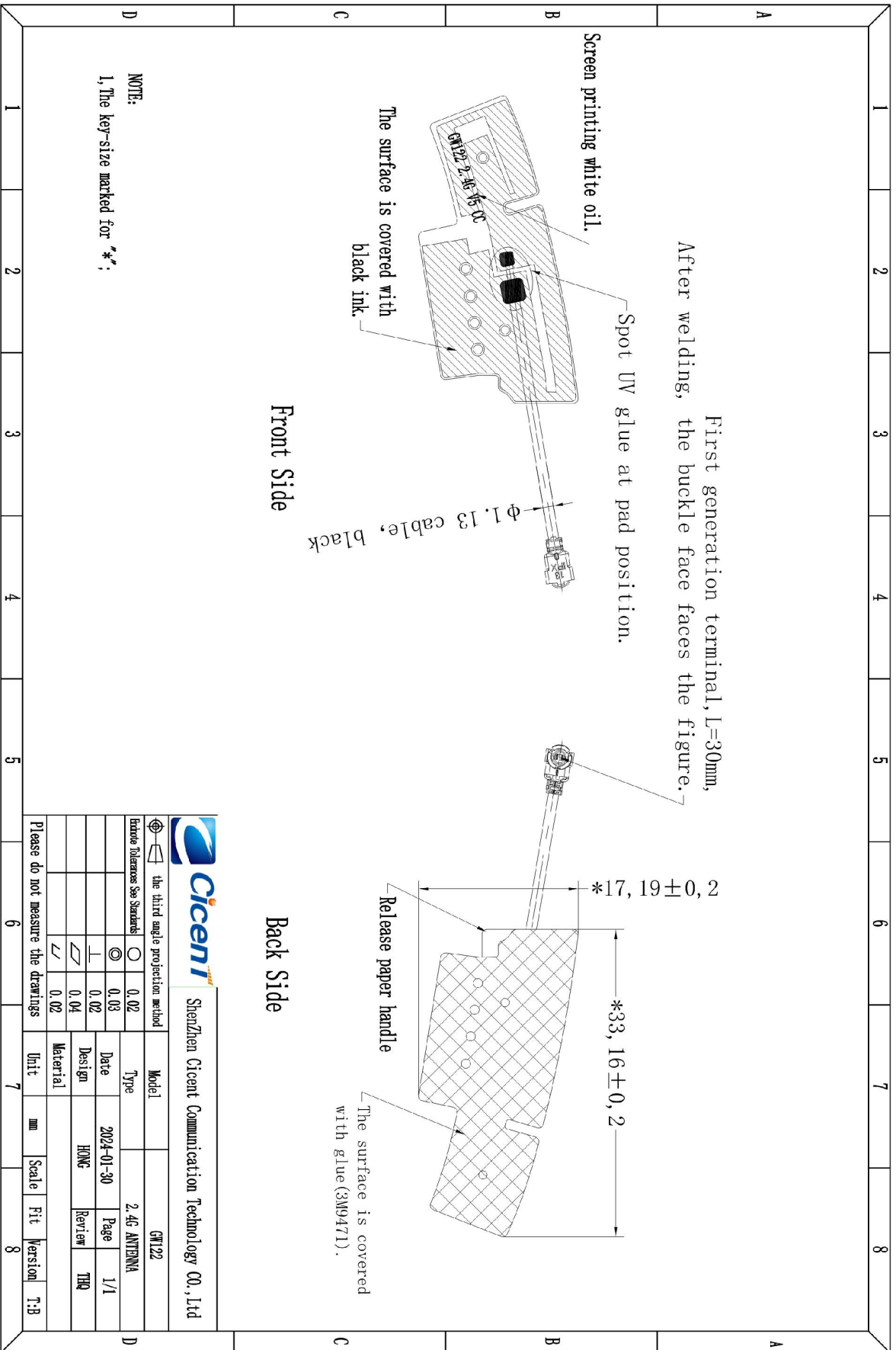
OTA Standard Chamber



IV: Structure file

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		Shenzhen Cicent Communication Technology CO., Ltd	
	the third angle projection method	Model	GM122
	Dimension Tolereance See Standards	Type	2.4G ANTENNA
	0.02	Date	2024-01-30
	0.03	Design	HONG
	0.02	Review	THQ
	0.04	Material	
	0.02	Unit	mm
Please do not measure the drawings		Scale	Fit
		Version	T-B