



Antenna Part Specification

Customer name:	LianChuang
Project name:	T1209
Material category:	BT antenna
Version:	V1.0
Date:	2023.09.15



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Change record			
Compile / change date	Reason for change	Changed content	Version
2023.09.15	first edition	first edition	V1.0

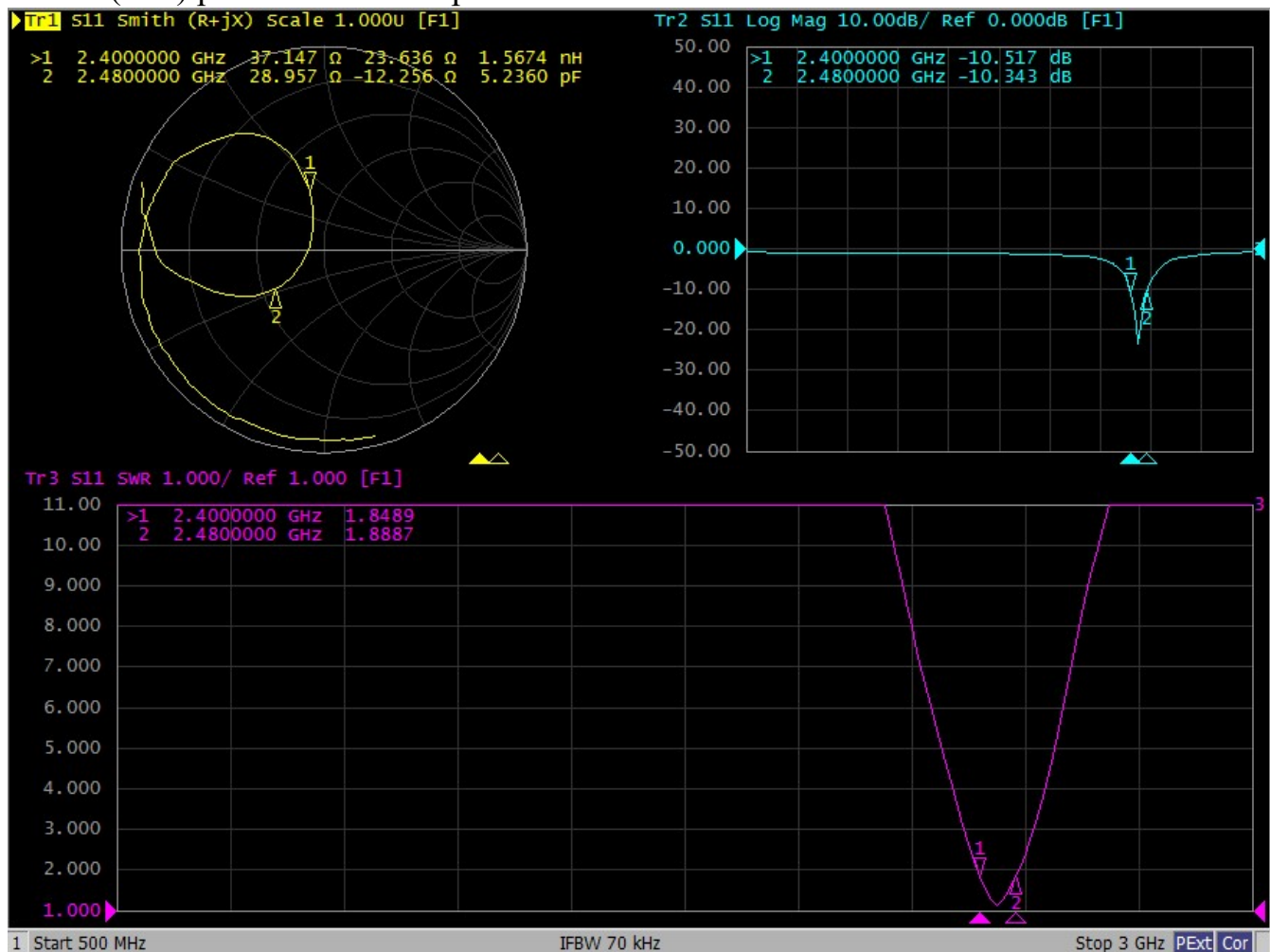


I: The report of passive data



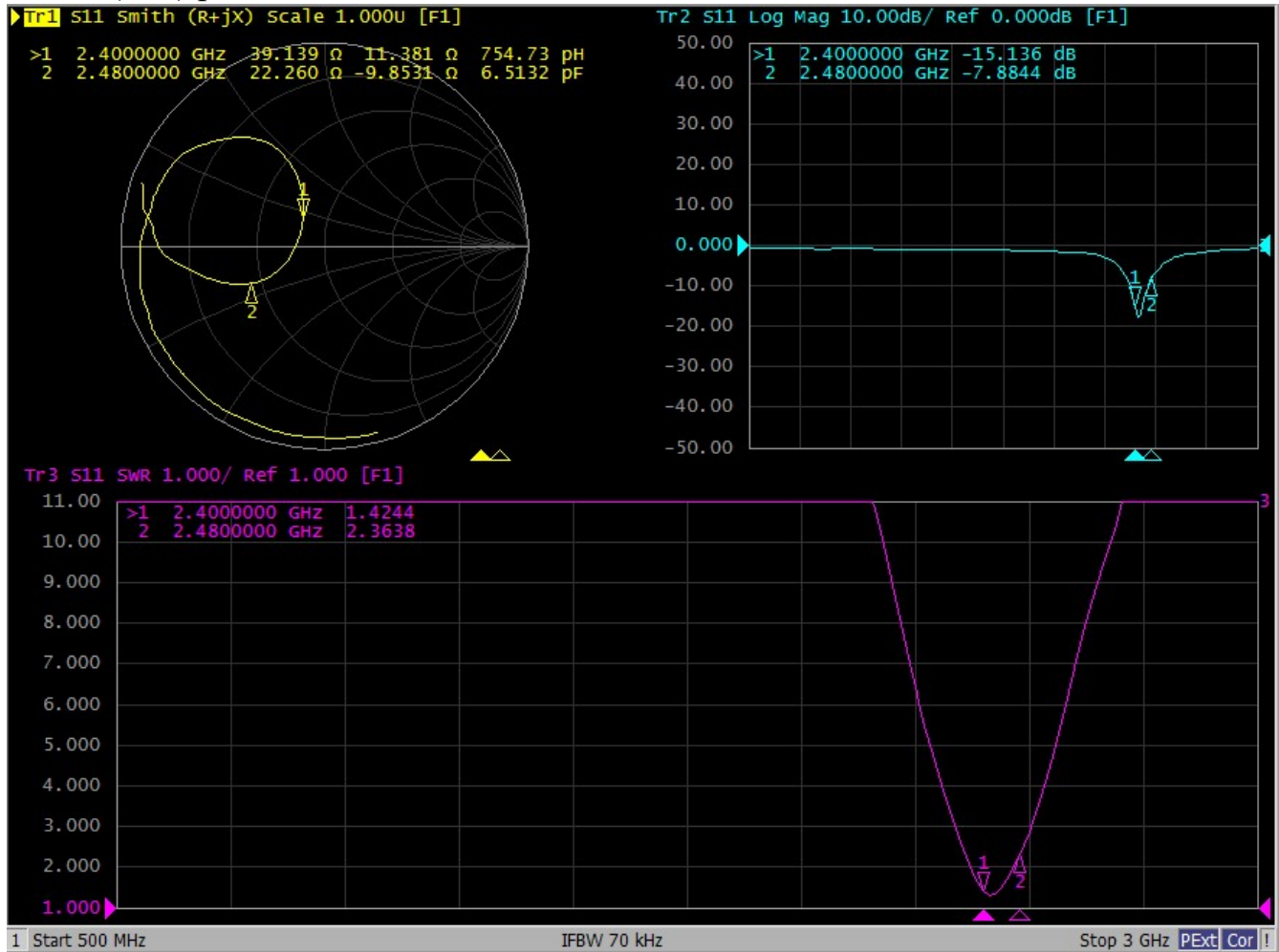
Angilent E5071C

VSWR(S11) parameter (free space) :





VSWR(S11) parameter (headform) :





Efficiency:

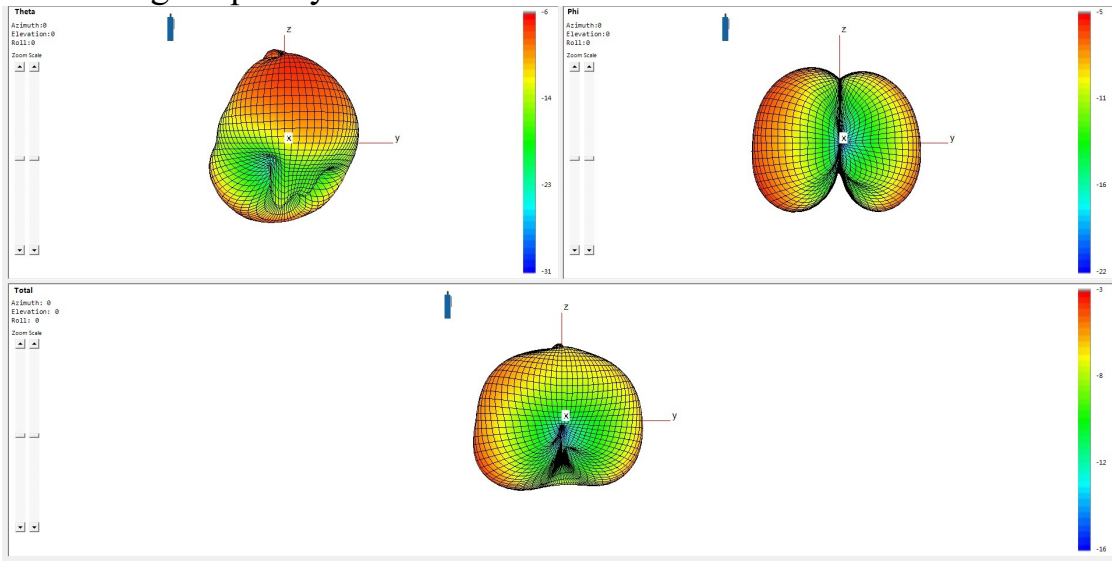
free space			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	20.2%	-6.94	-3.84
2410	20.9%	-6.80	-3.69
2420	21.2%	-6.74	-3.69
2430	22.0%	-6.58	-3.61
2440	21.4%	-6.70	-3.75
2450	22.4%	-6.49	-3.47
2460	23.1%	-6.37	-3.39
2470	21.1%	-6.77	-3.73
2480	19.4%	-7.11	-3.95
Average value	21.3%	-6.72	-3.68

headform			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	6.9%	-11.62	-6.46
2410	7.2%	-11.42	-6.31
2420	7.4%	-11.28	-6.15
2430	7.3%	-11.38	-6.22
2440	7.0%	-11.55	-6.41
2450	7.0%	-11.53	-6.43
2460	6.6%	-11.77	-6.58
2470	6.9%	-11.63	-6.41
2480	6.9%	-11.61	-6.38
Average value	7.0%	-11.53	-6.37



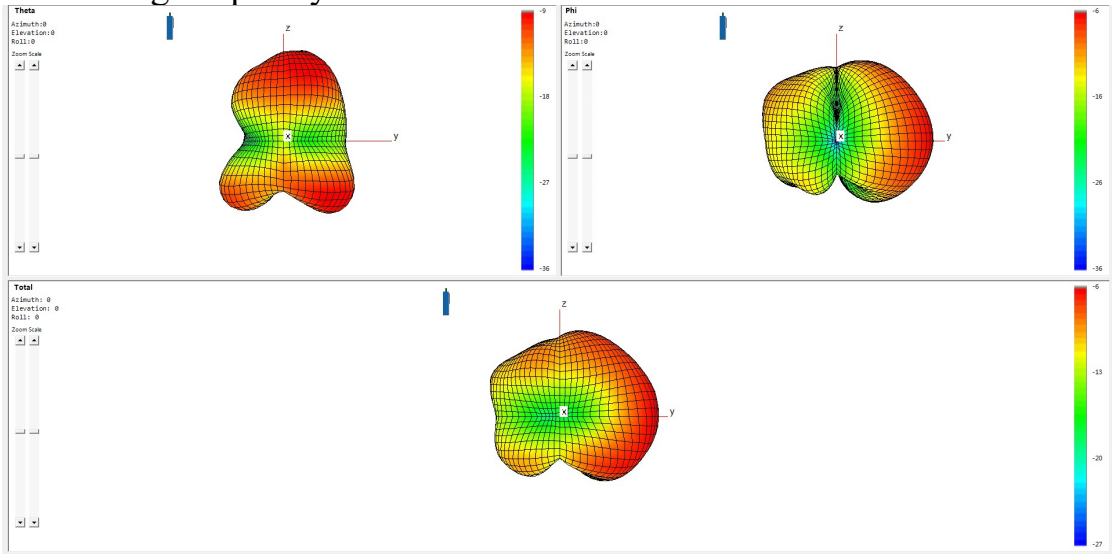
3D Antenna radiation pattern (free space) :

The testing frequency is 2460MHz



3D Antenna radiation pattern (headform) :

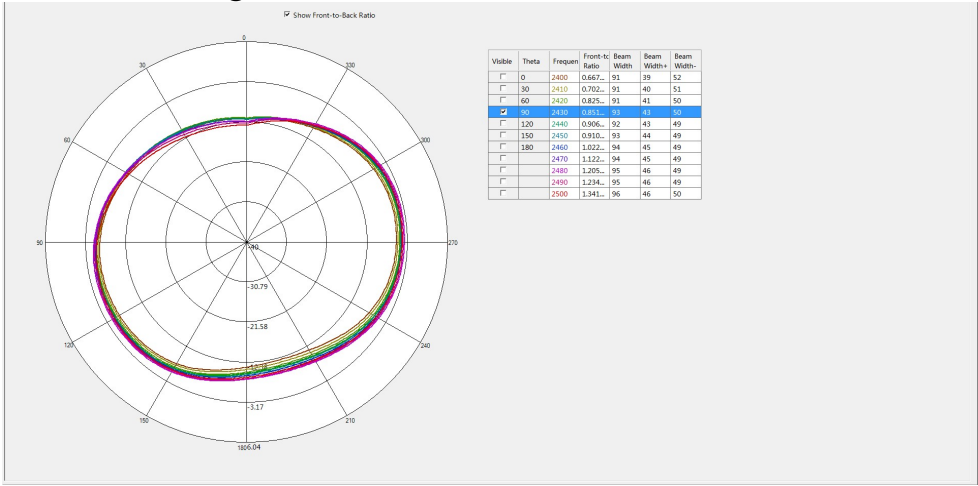
The testing frequency is 2460MHz



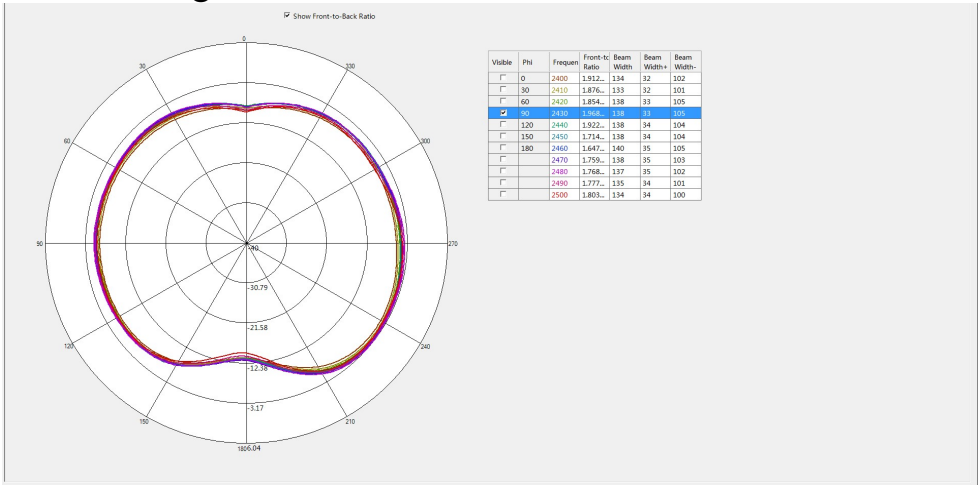


2D Antenna radiation pattern (free space) :

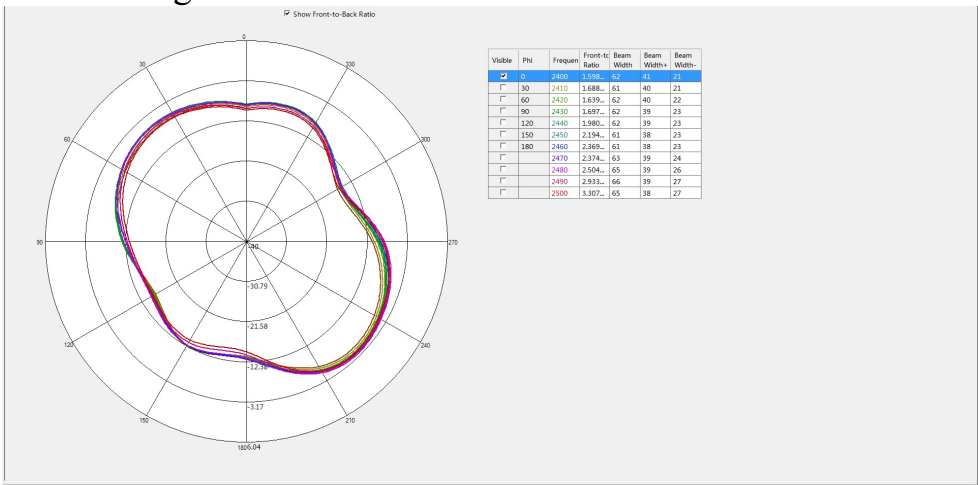
Theta=90.00deg



Phi=90.00deg



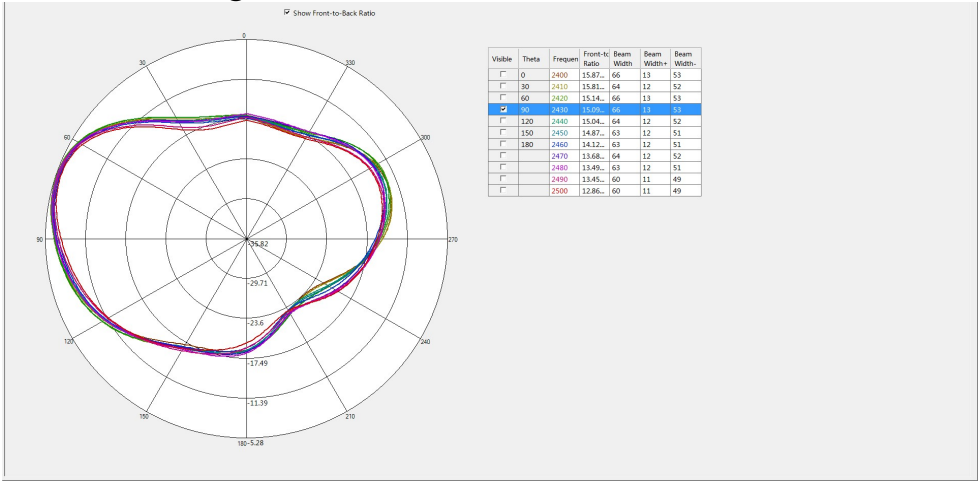
Phi=0.00deg



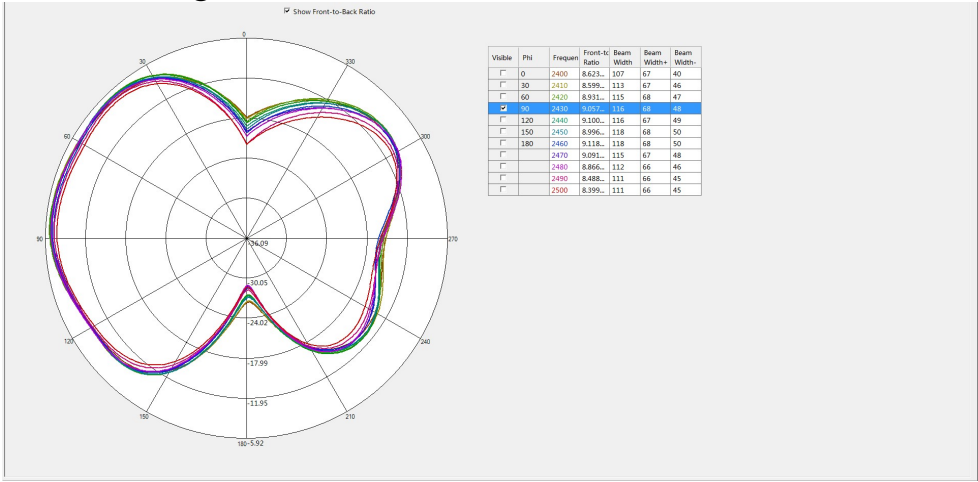


2D Antenna radiation pattern (headform) :

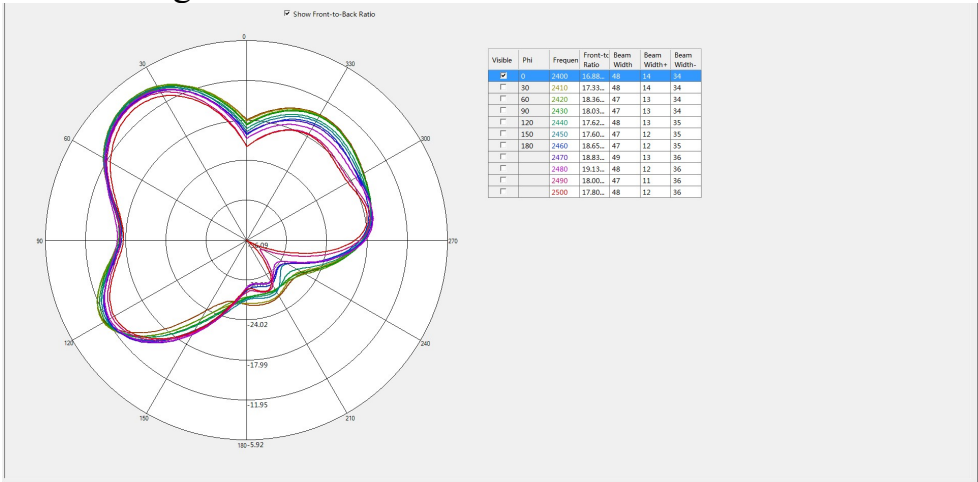
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg





II: 3D Active test report of antenna

free space	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	3.9	-87.0
	CH 39	4.6	-87.2
	CH 78	2.9	-87.5

headform	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	0.3	-82.1
	CH 39	-0.2	-82.6
	CH 78	-2.3	-82.2

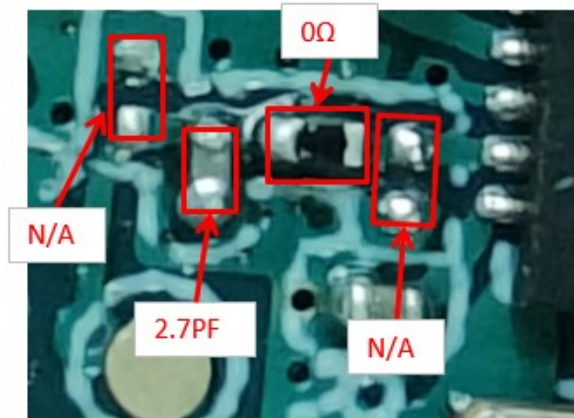
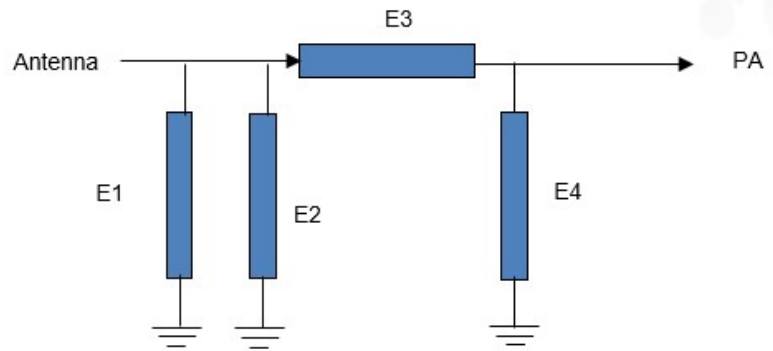


OTA Standard Chamber



III: Matching circuit

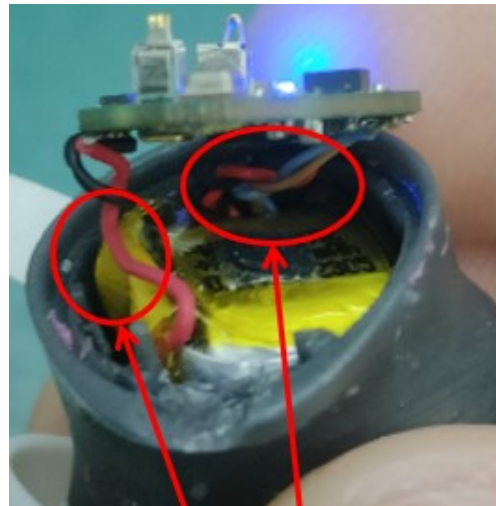
Element	Value
E1(0201)	N/A
E2(0201)	2.7PF
E3(0201)	0Ω
E4(0201)	N/A



IV: Environmental treatment



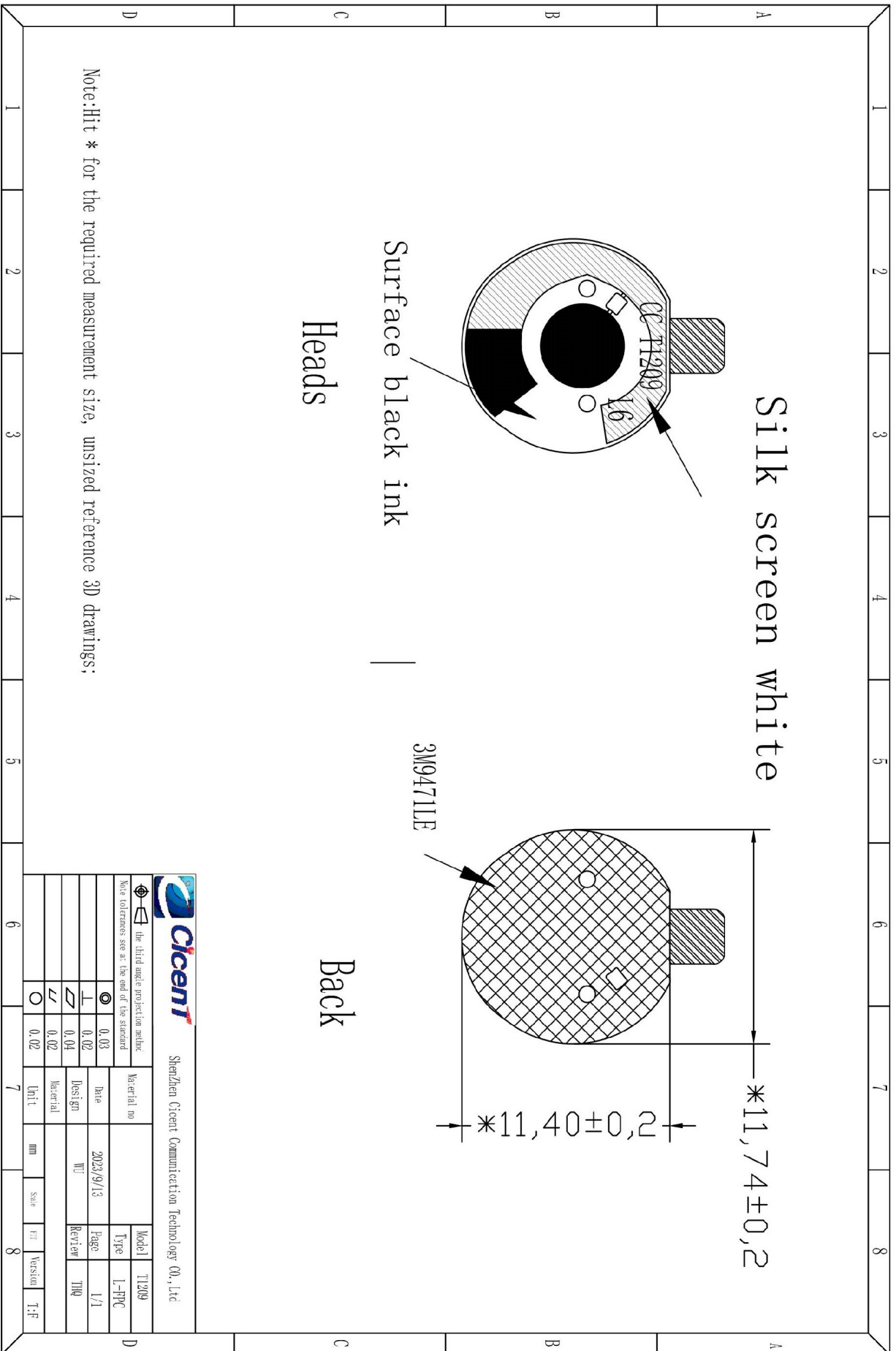
As shown in the above figure, the battery cable, speaker cable, and charging cable use the original length and are evenly wound. The speaker cable and charging cable are wound separately (about 5 turns) and cannot be wound together. The battery cable also needs to be simply wound



Place the left ear battery facing upwards, with the speaker cable, charging cable, and battery placement as shown in the above image



V: Structure file:



Note:fit * for the required measurement size, unsized reference 3D drawings;

		Shenzhen Cicent Communication Technology Co., Ltd	
the third angle projection method Note:tolerances see at the end of the standard		Material no	Model
\varnothing	0.03	Date	11209
\perp	0.02	2023/9/13	1-PPC
∇	0.04	Design	WU
∇	0.02	Material	Review
\circ	0.02	Unit	THQ
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		Scale	
		Fit	
		Version	
		T-F	