



Antenna Part Specification

Customer name:	EDIFIER
Project name:	TWS1 ANC
Material category:	BT antenna
Version:	V1.0
Date:	2023.03.24



Contents

I: The report of passive data 3

II: 3D Active test report of antenna..... 9

III: Matching circuit 9

IV: Coupling test location 10

V: Installation method of horn wire 11

VI: Structure file..... 12

Change record			
Compile / change date	Reason for change	Changed content	Version
2023.03.24	First edition	First edition	V1.0

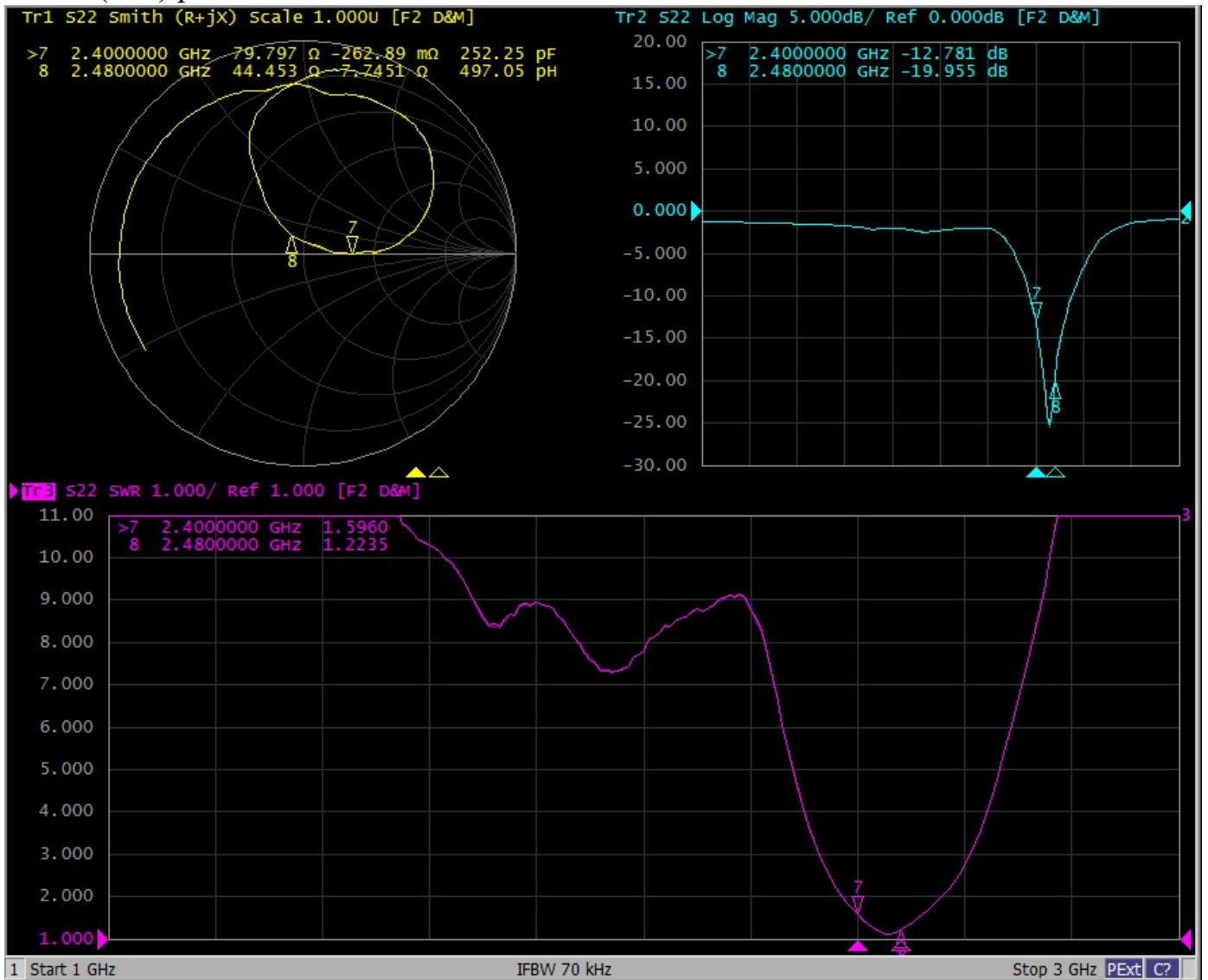


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter (L) :

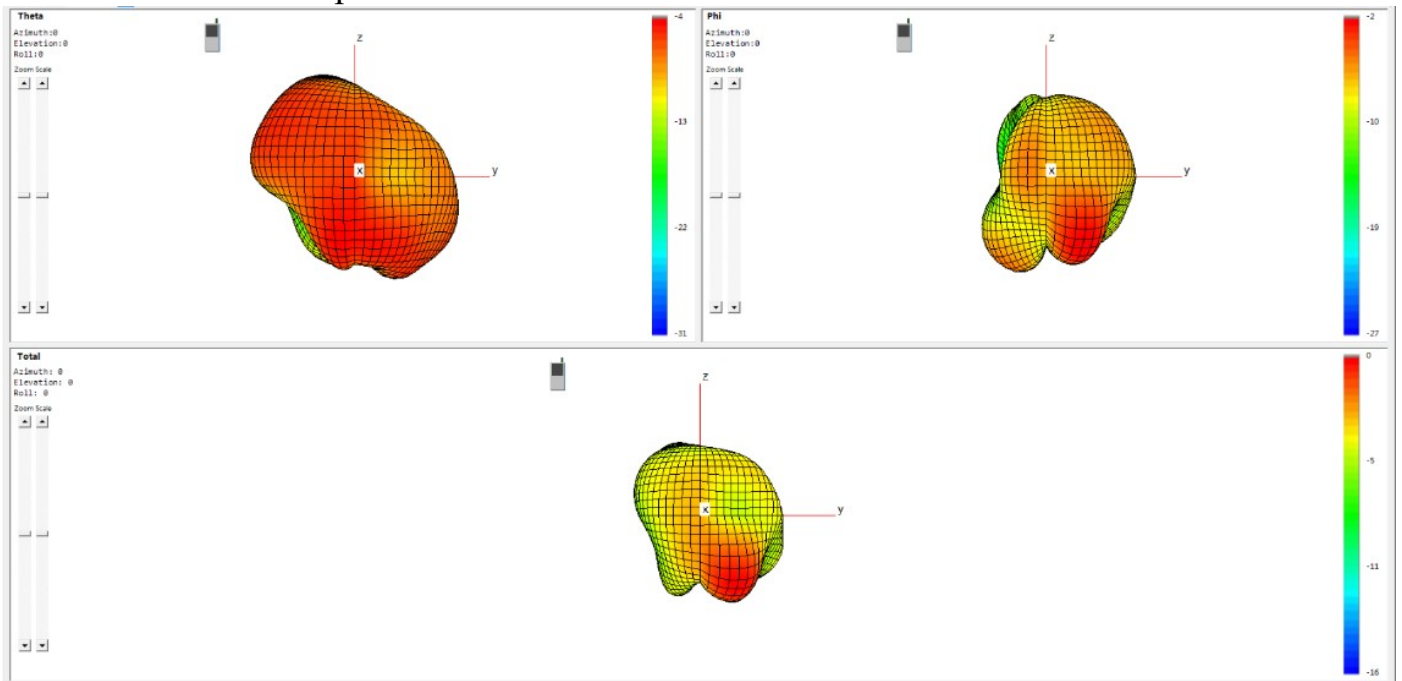




Efficiency:

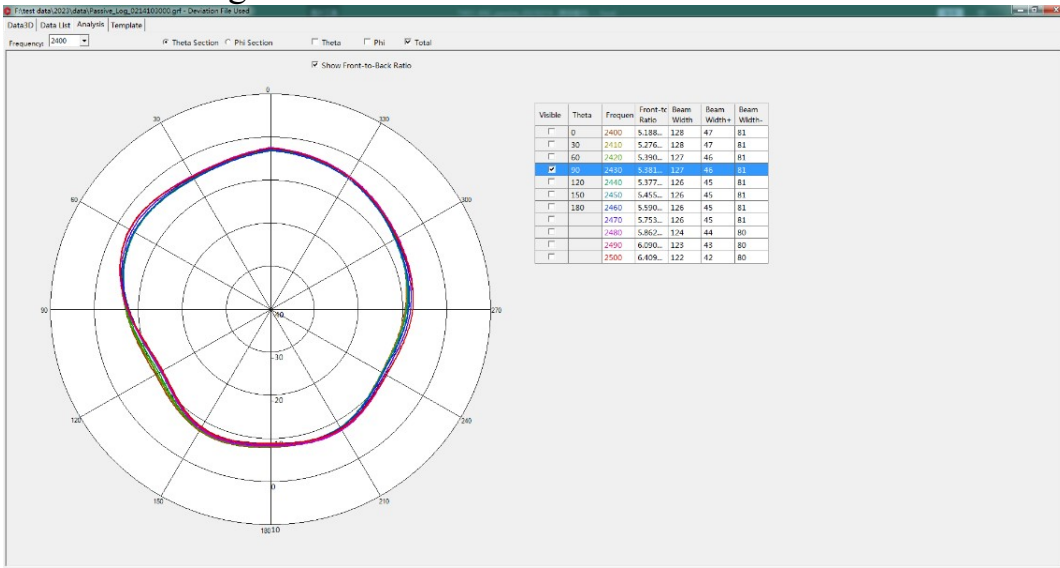
2400-2480 MHz (L)			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	24%	-6.3	-0.7
2410	23%	-6.4	-0.9
2420	22%	-6.6	-1.1
2430	23%	-6.5	-1.0
2440	22%	-6.6	-1.1
2450	24%	-6.2	-0.7
2460	26%	-5.9	-0.4
2470	25%	-6.0	-0.5
2480	25%	-6.0	-0.4
Average value	24%	-6.3	-0.7

3D Antenna radiation pattern (L) :

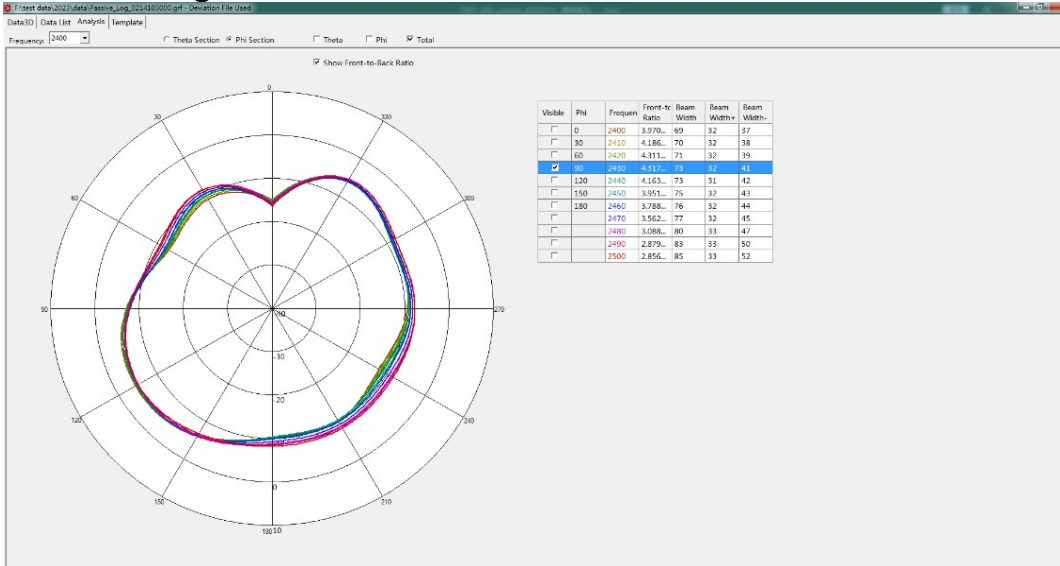




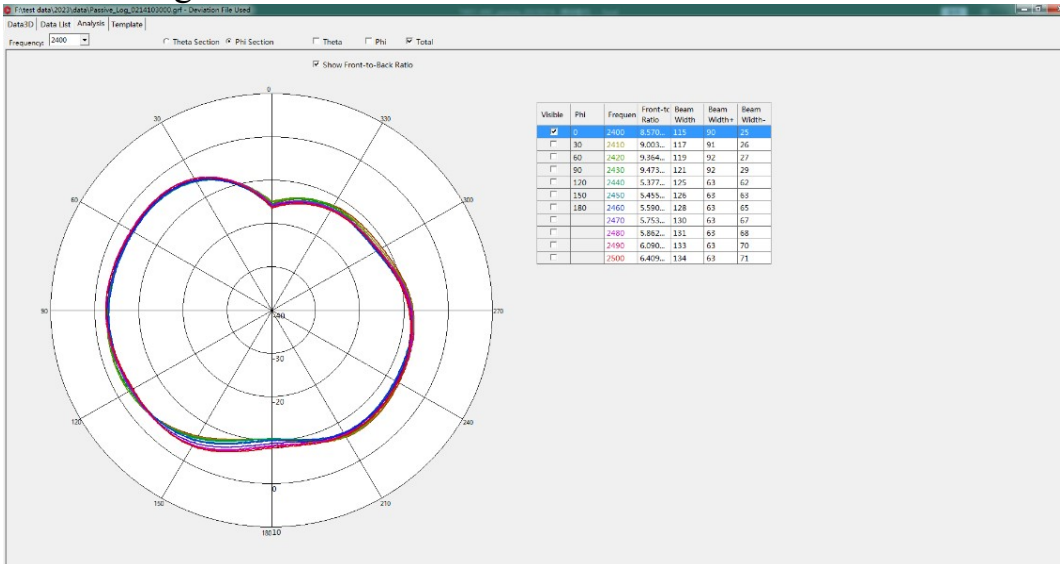
Antenna radiation pattern (L) : Theta=90.00deg



Phi=90.00deg

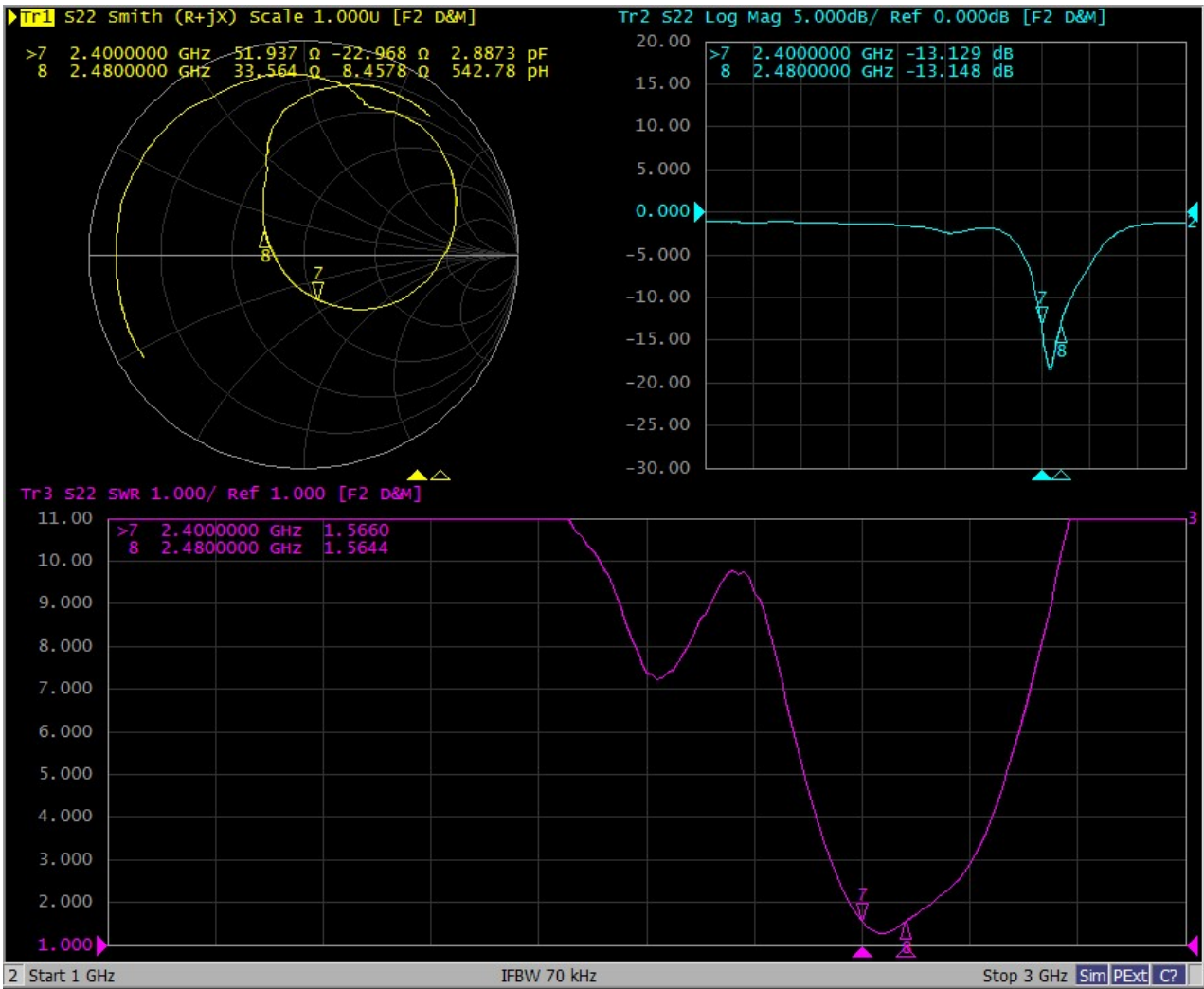


Phi=0.00deg





VSWR(S11) parameter (R) :

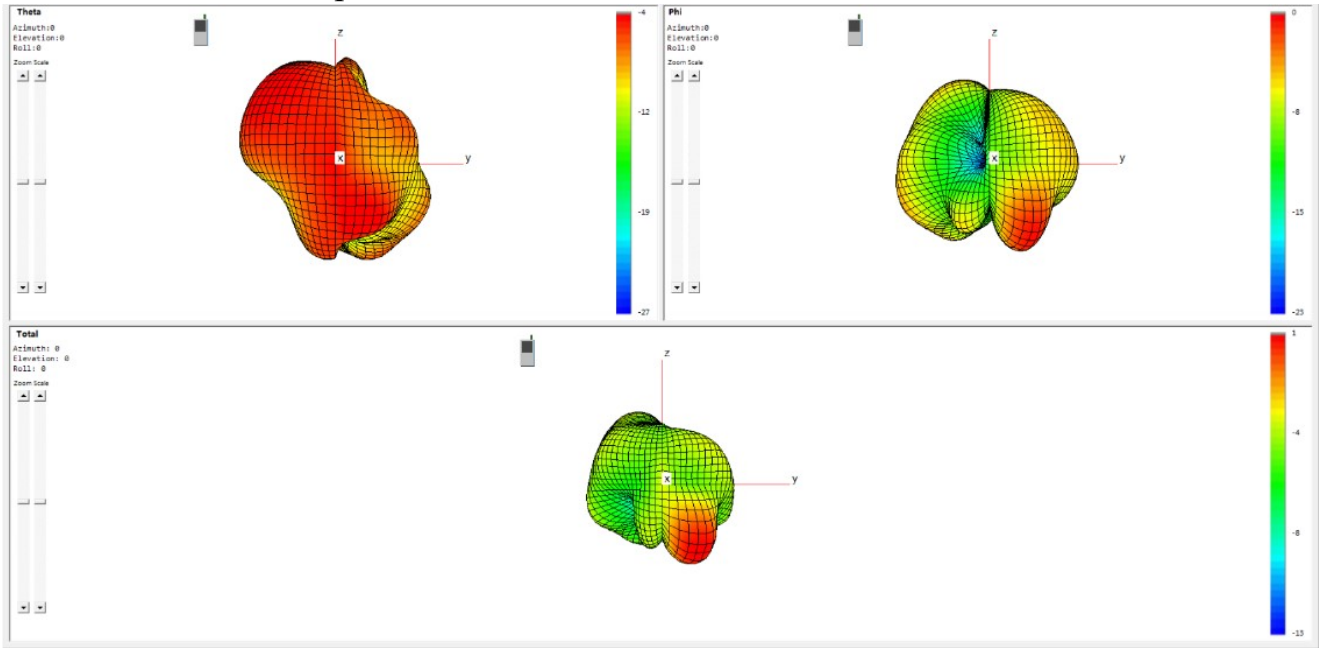


Efficiency:

2400-2480 MHz (R)			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	32%	-5.0	0.8
2410	32%	-5.0	0.7
2420	32%	-5.0	0.6
2430	31%	-5.1	0.4
2440	30%	-5.3	0.2
2450	30%	-5.2	0.2
2460	30%	-5.3	0.1
2470	32%	-4.9	0.5
2480	34%	-4.6	0.7
Average value	31%	-5.0	0.5

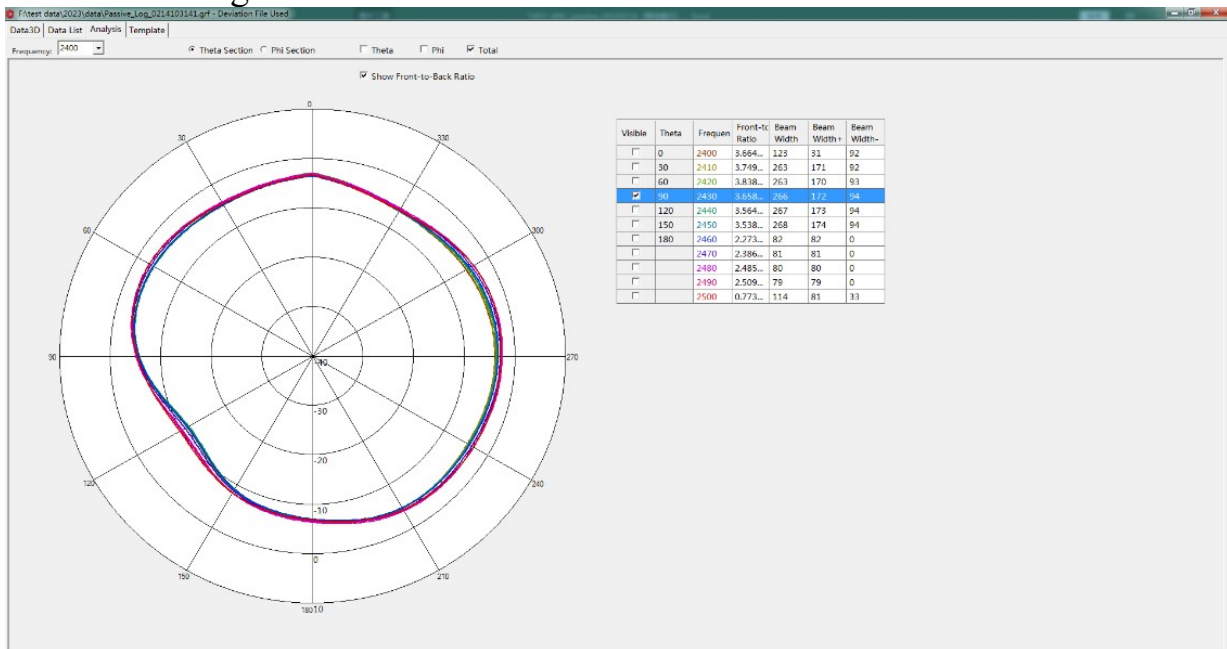


3D Antenna radiation pattern (R) :



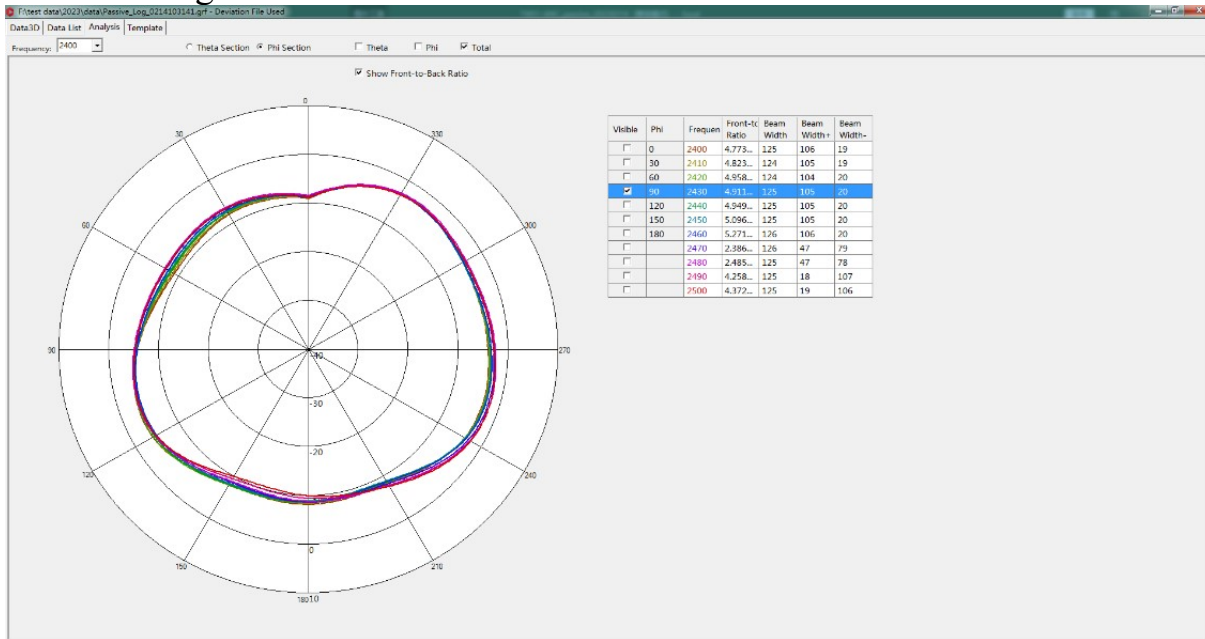
Antenna radiation pattern (R) :

Theta=90.00deg

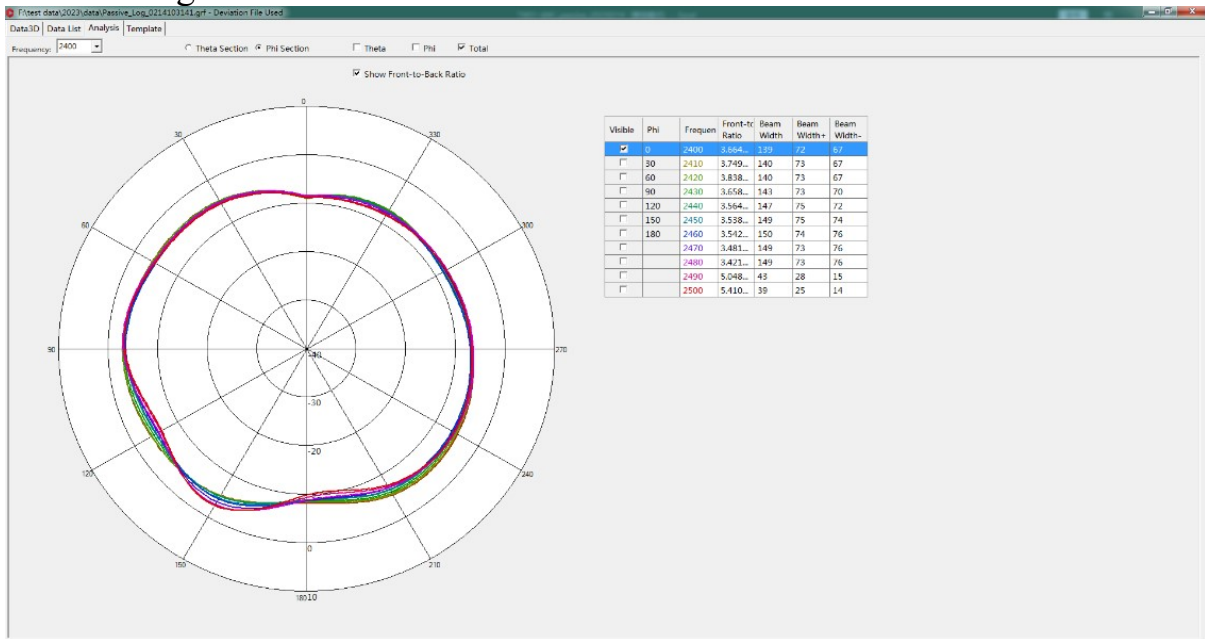




Phi=90.00deg



Phi=0.00deg





II: 3D Active test report of antenna

	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	5.7	-88.5
	CH 39	6.5	-88.9
	CH 78	5.2	-88.0

	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	6.1	-89.0
	CH 39	6.7	-89.3
	CH 78	6.1	-88.5

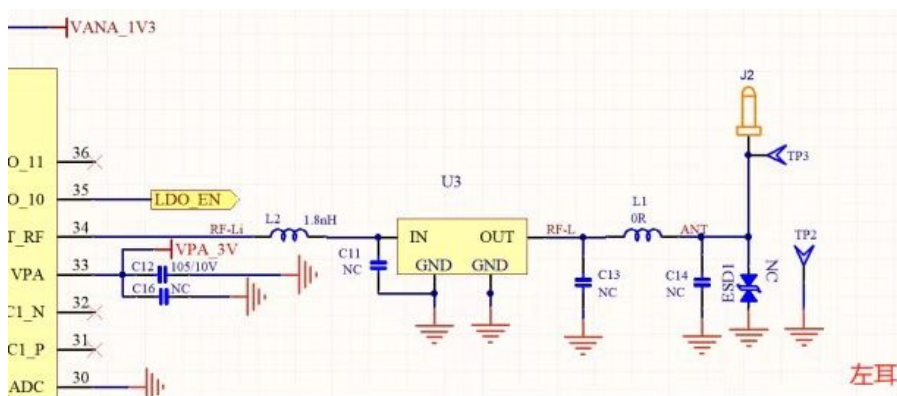


OTA Standard Chamber

III: Matching circuit

L:

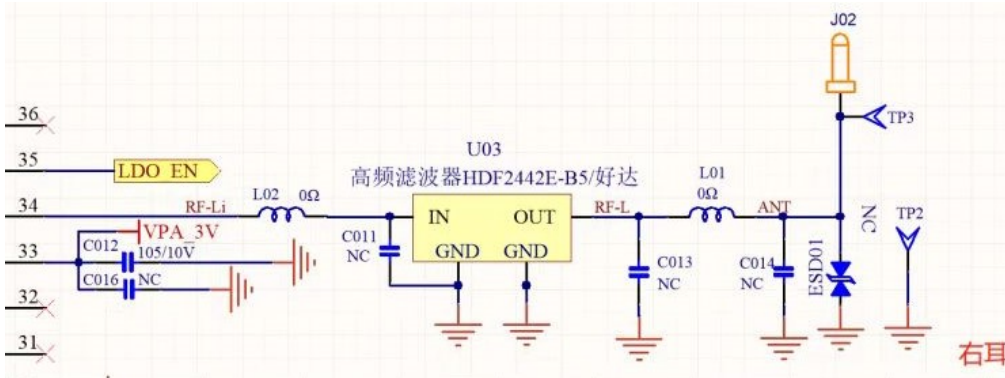
Element	Value	Element	Value
C14	N/C	C11	N/C
L1	3.3nH	L2	1.8nH
C13	N/C		



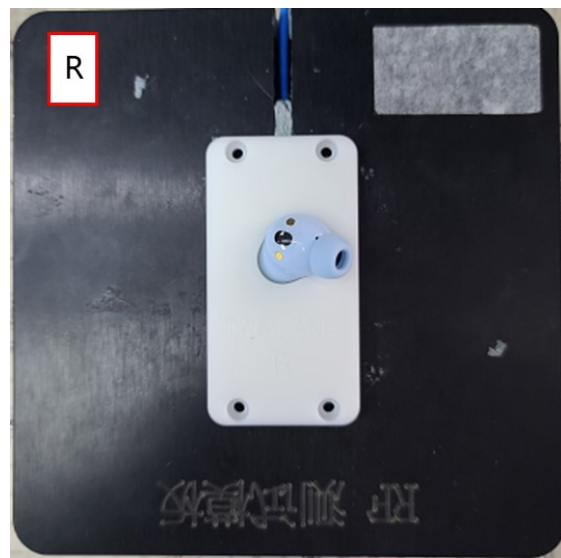
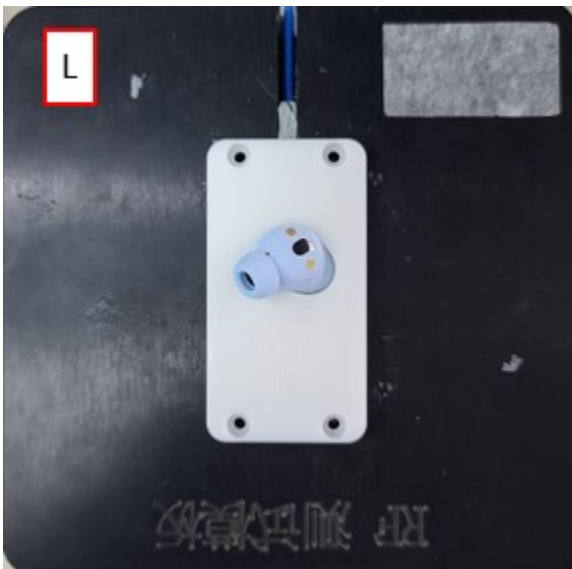


R:

Element	Value	Element	Value
C014	N/C	C011	N/C
L01	4.7nH	L02	0Ω
C013	N/C		



IV: Coupling test location

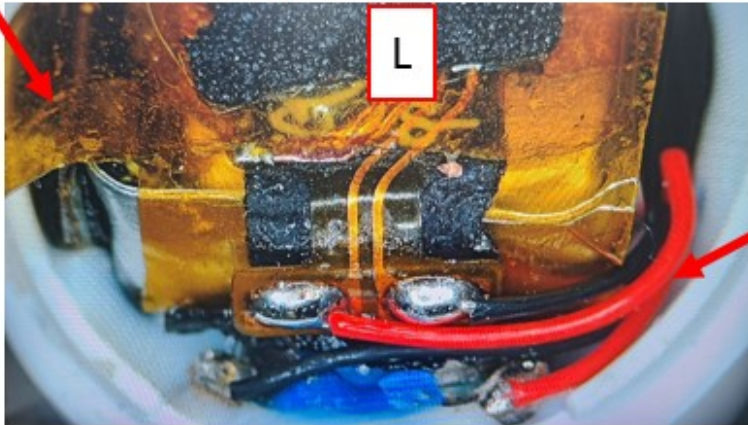




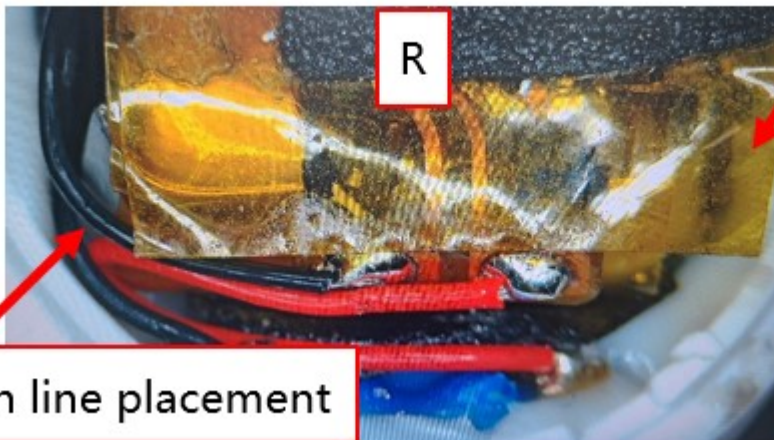
V: Installation method of horn wire

18mm horn line placement:

Battery electrode



Horn line placement

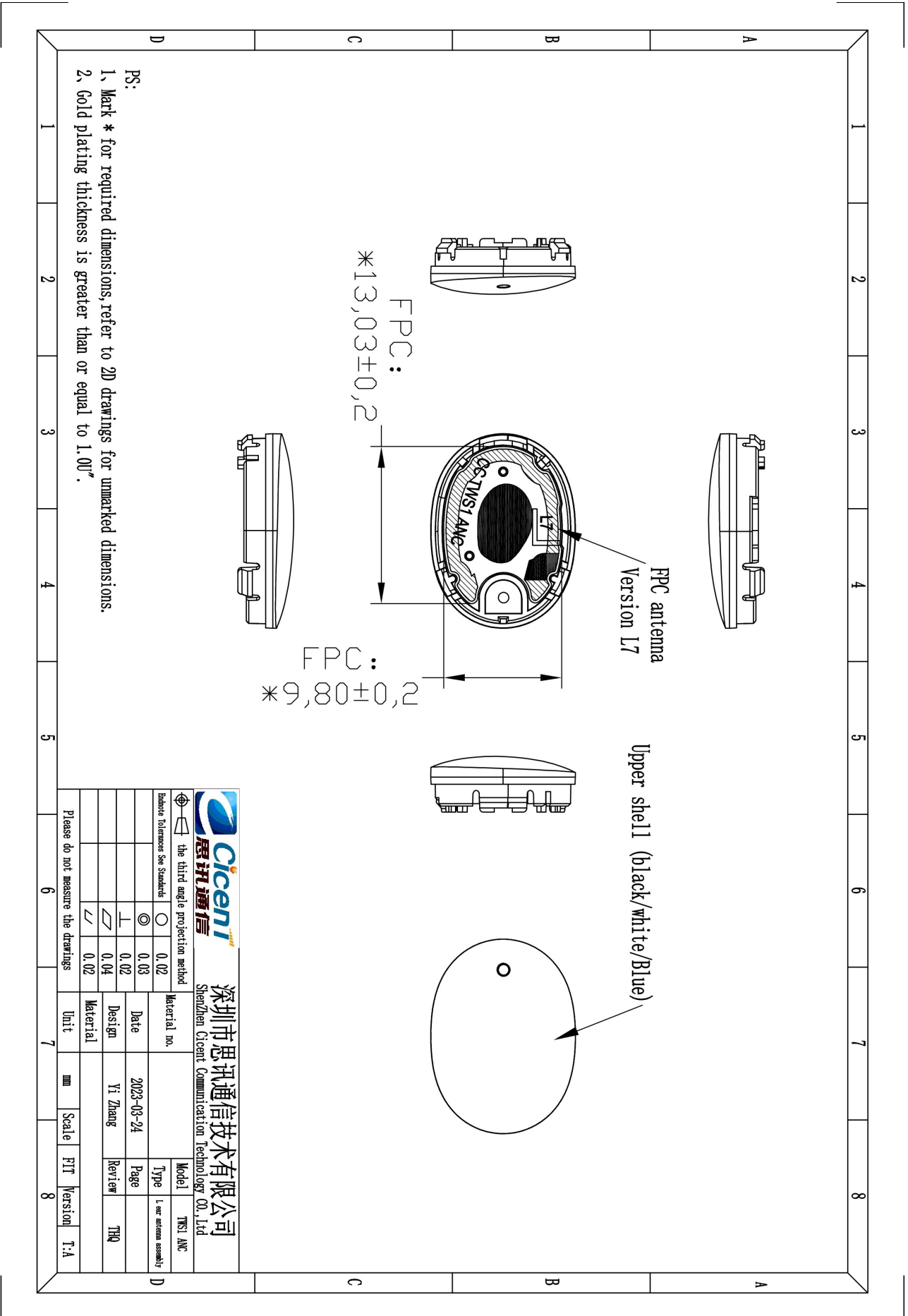


Battery electrode

Horn line placement

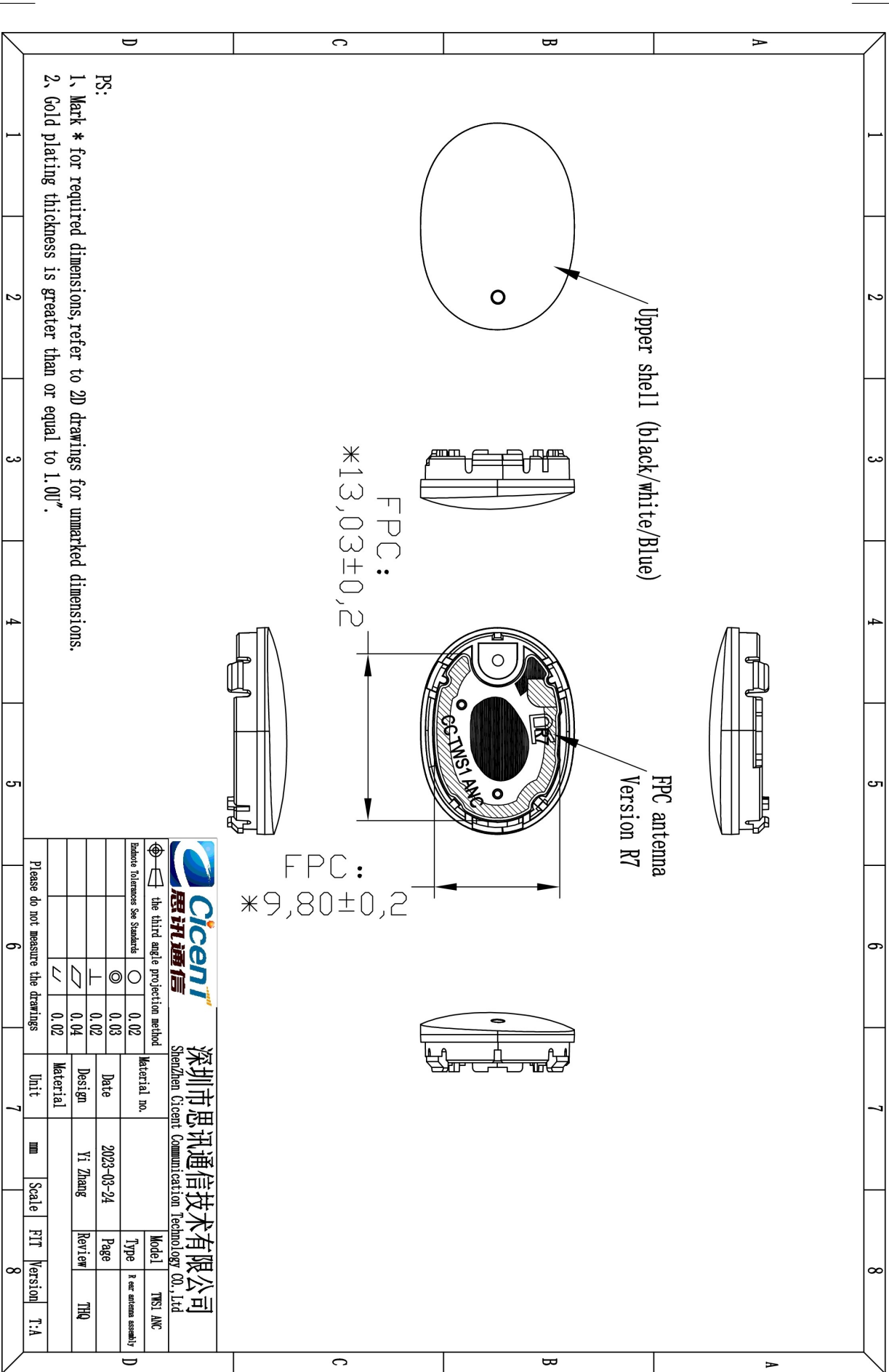


VI: Structure file



PS:
 1、Mark * for required dimensions, refer to 2D drawings for unmarked dimensions.
 2、Gold plating thickness is greater than or equal to 1.0U”.

深圳市思讯通信技术有限公司 Shenzhen Cicent Communication Technology Co., Ltd		Model: TMS1.ANC Type: 1st antenna assembly	
the third angle projection method Indicate tolerance See Standards	Material no. Date Design Material	0.02 2023-03-24 Yi Zhang Unit	0.03 0.02 0.04 0.02
Please do not measure the drawings		mm	Scale
		FTT	Version
		8	T-A



PS:
 1、Mark * for required dimensions, refer to 2D drawings for unmarked dimensions.
 2、Gold plating thickness is greater than or equal to 1.00”.

		深圳市思讯通信技术有限公司 Shenzhen Cicent Communication Technology Co., Ltd	
the third angle projection method	Material no.	Model	TMS1 ANC
Indicate Tolerances See Standards	Date	Type	FPC antenna assembly
0.02 0.03 0.02 0.04 0.02	2023-03-24	Page	THQ
Design	Yi Zhang	Review	THQ
Material	Unit	Scale	FIT Version T-A
Please do not measure the drawings	mm	1:1	T-A