



# Antenna Part Specification

Project name:	Q910
Material category:	BT antenna
Version:	V4.0
Date:	2022.06.16



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Change record			
Compile / change date	Reason for change	Changed content	Version

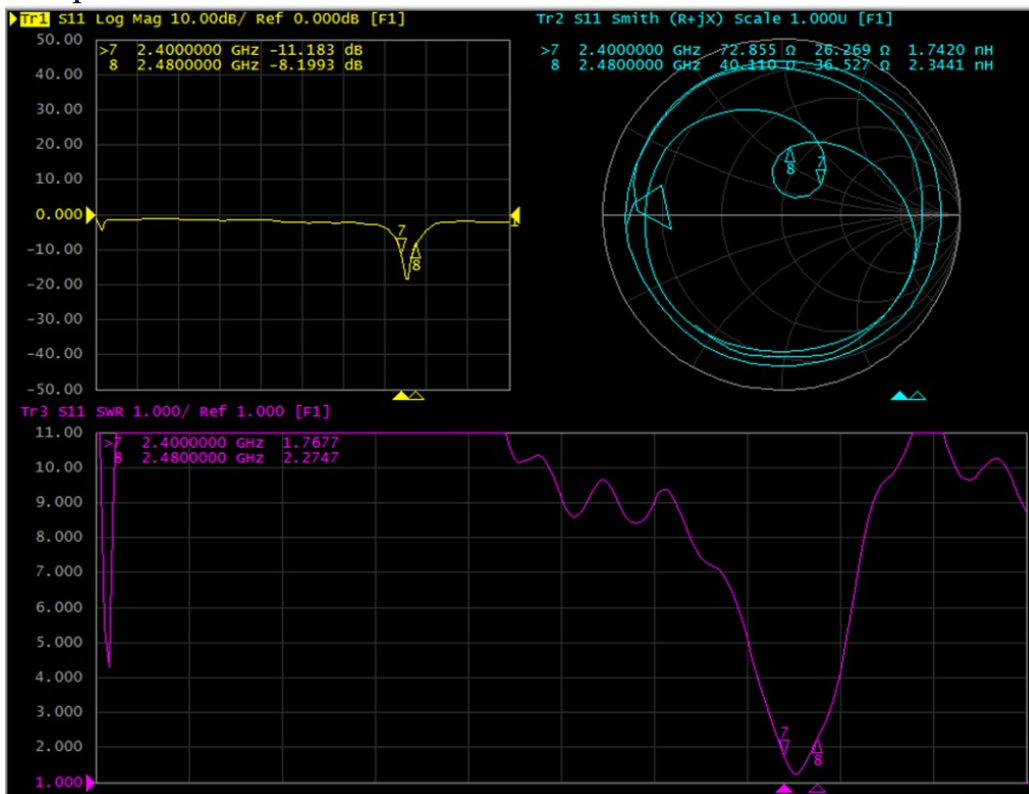


I: The report of passive data



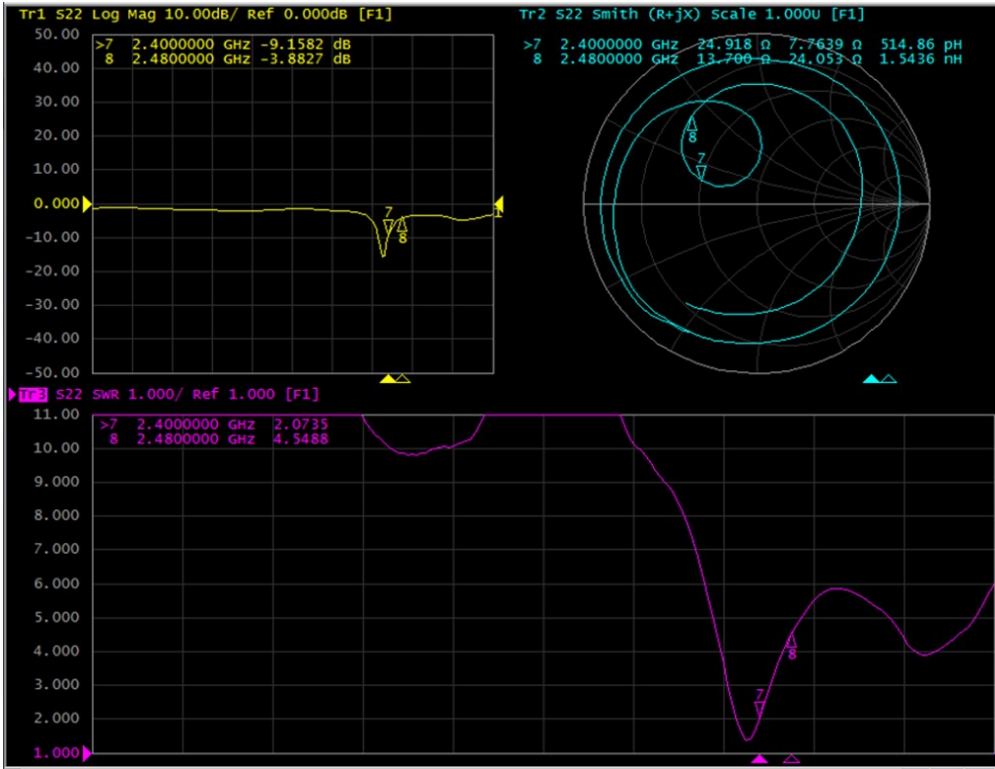
Agilent E5071C

S11 parameter (AB1565) :





S11 parameter (AB1568) :



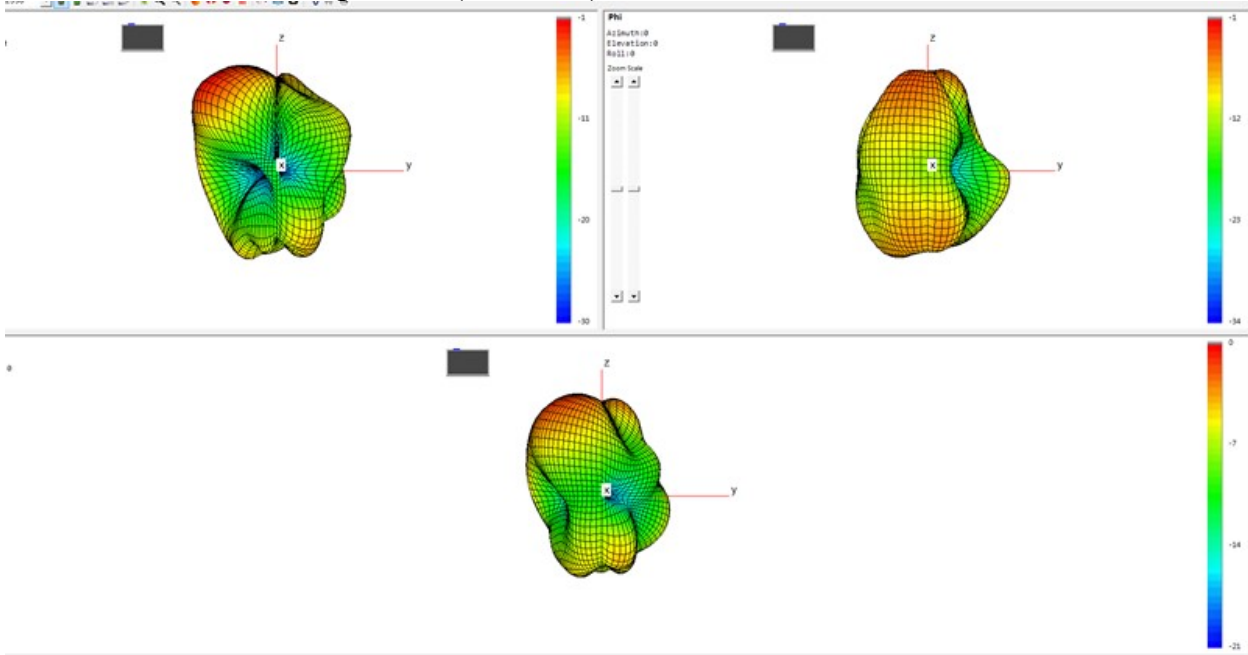
Efficiency:

AB1565			
Frequency (MHz)	Gain (dBi)	Efficiency (dB )	Efficiency
2400	0.8	-4.06	39.3
2410	1.0	-4.03	39.6
2420	1.2	-3.98	40.0
2430	1.4	-3.68	42.9
2440	1.3	-3.64	43.2
2450	1.1	-3.75	42.1
2460	1.2	-3.78	41.9
2470	1.0	-4.04	39.5
2480	1.2	-3.97	40.1
Average value	1.14	-3.88	40.94

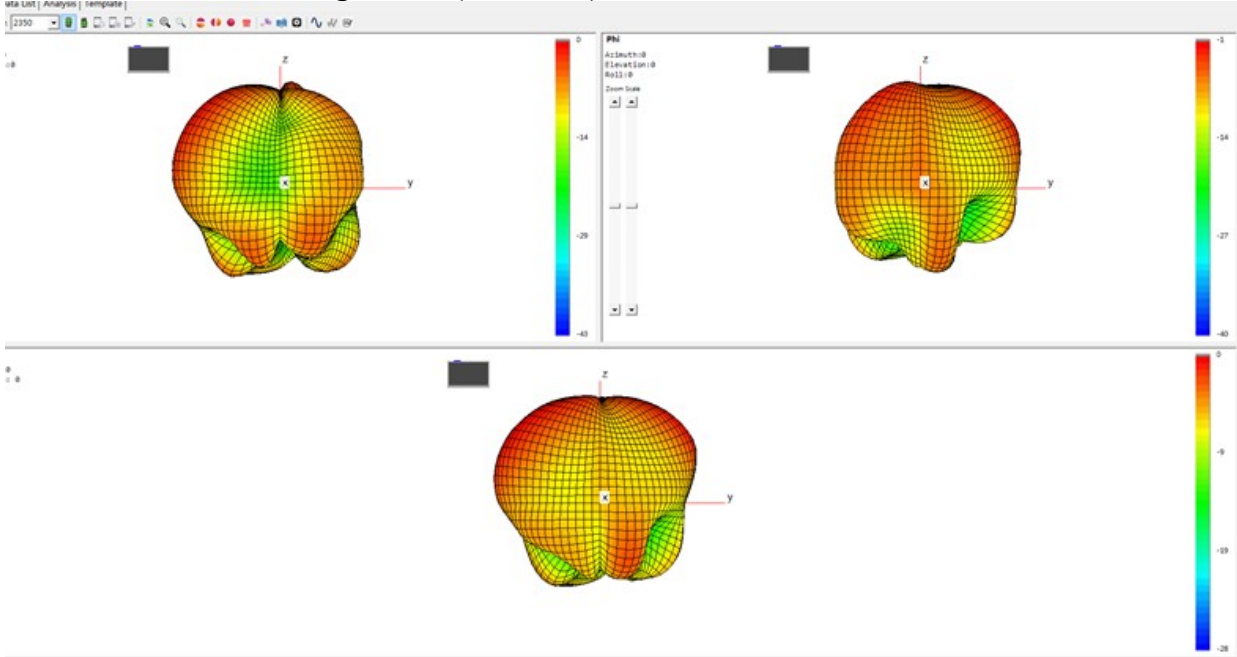
AB1568			
Frequency (MHz)	Gain (dBi)	Efficiency (dB )	Efficiency
2400	-0.1	-4.05	39.3
2410	1.0	-4.18	38.2
2420	1.6	-4.01	39.7
2430	2.0	-4.18	38.2
2440	1.9	-4.54	36.2
2450	1.4	-4.95	35.0
2460	1.1	-5.03	34.4
2470	1.0	-4.90	32.4
2480	0.7	-5.00	31.6
Average value	1.17	-4.54	36.11



3D Antenna radiation pattern (AB1565):

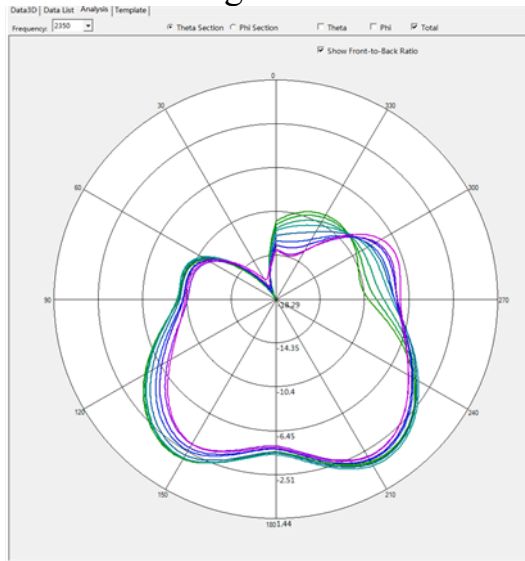


3D Antenna radiation pattern (AB1568):

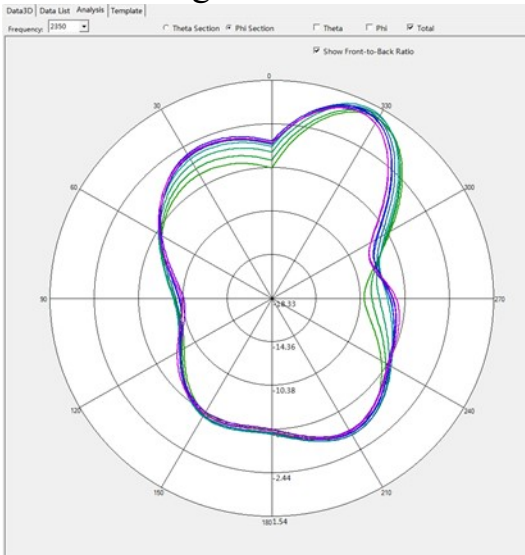




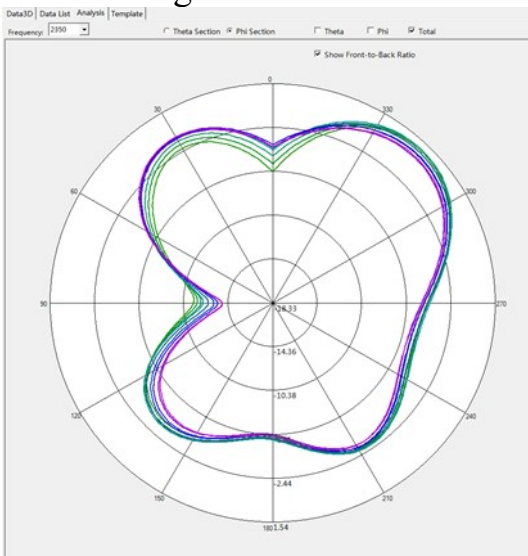
Antenna radiation pattern (AB1565):  
Theta=90.00deg



Phi=90.00deg

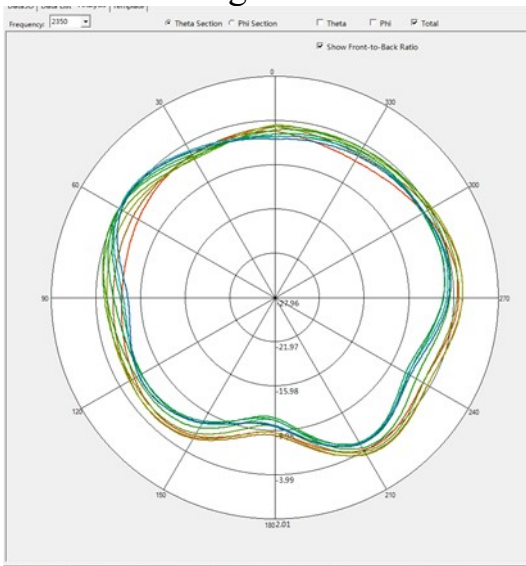


Phi=0.00deg

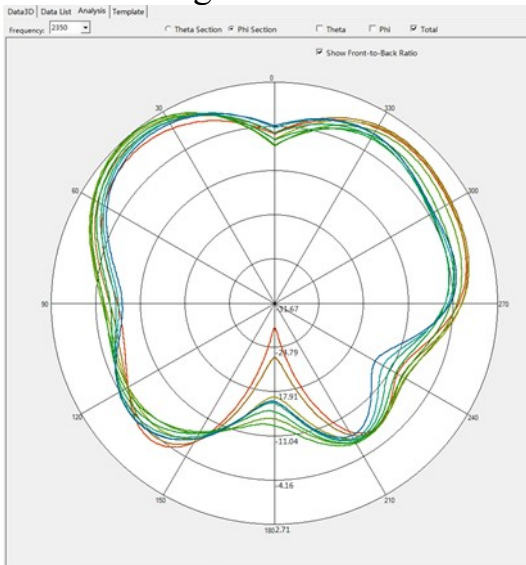




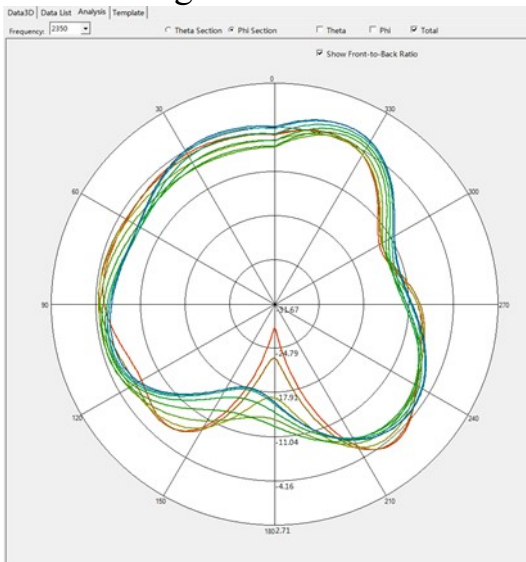
Antenna radiation pattern (AB1568):  
Theta=90.00deg



Phi=90.00deg



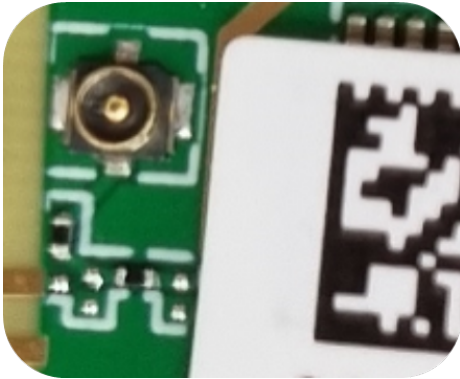
Phi=0.00deg



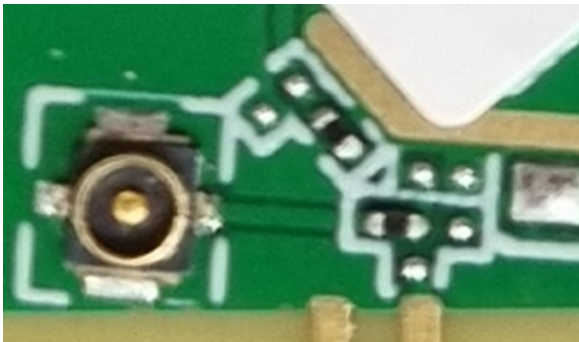


II: Schematic diagram of matching circuit modification

AB1565:



AB1568:

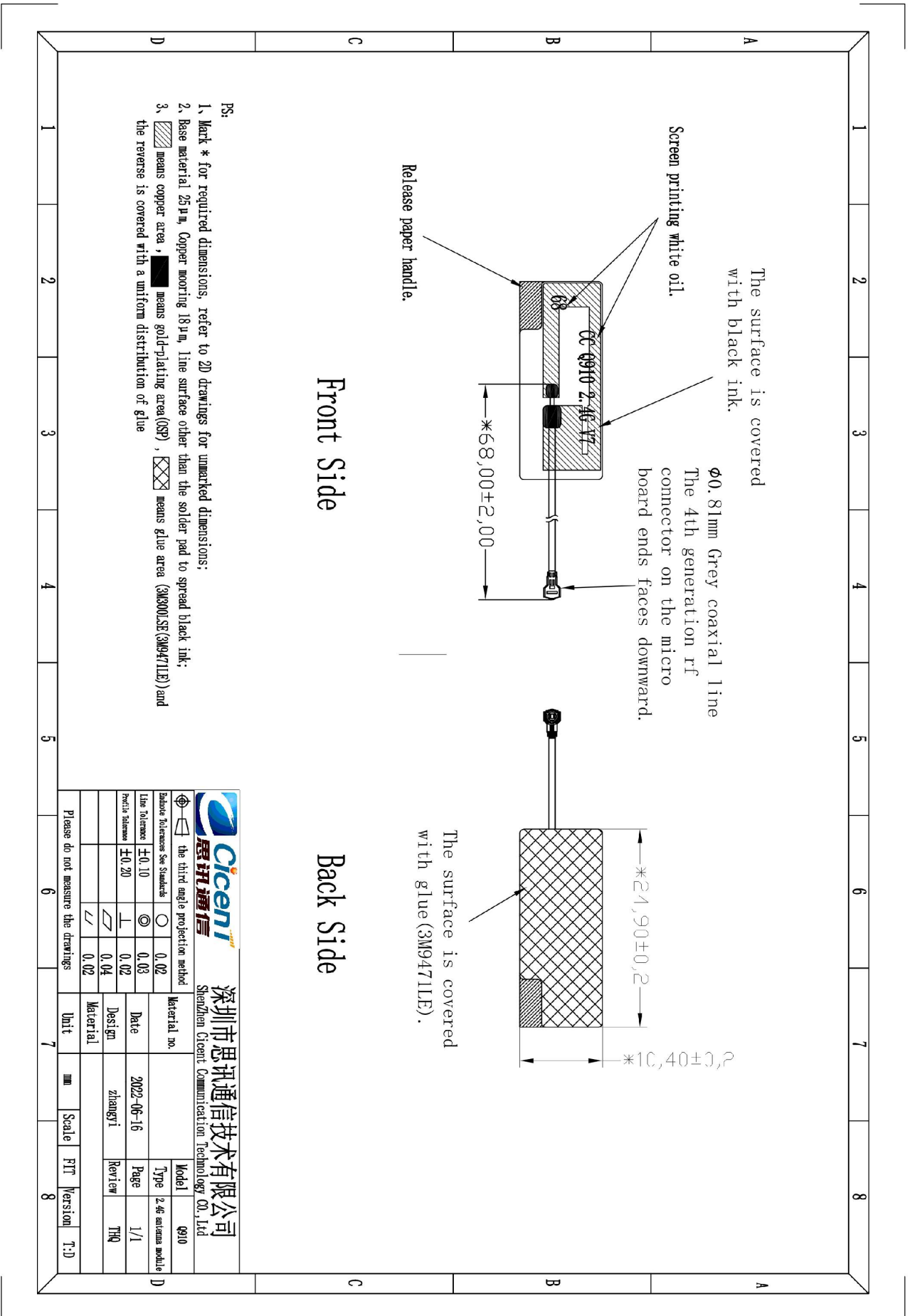


The two antennas are only connected with 0  $\Omega$  for matching, and other resistance materials are not used for the time being.

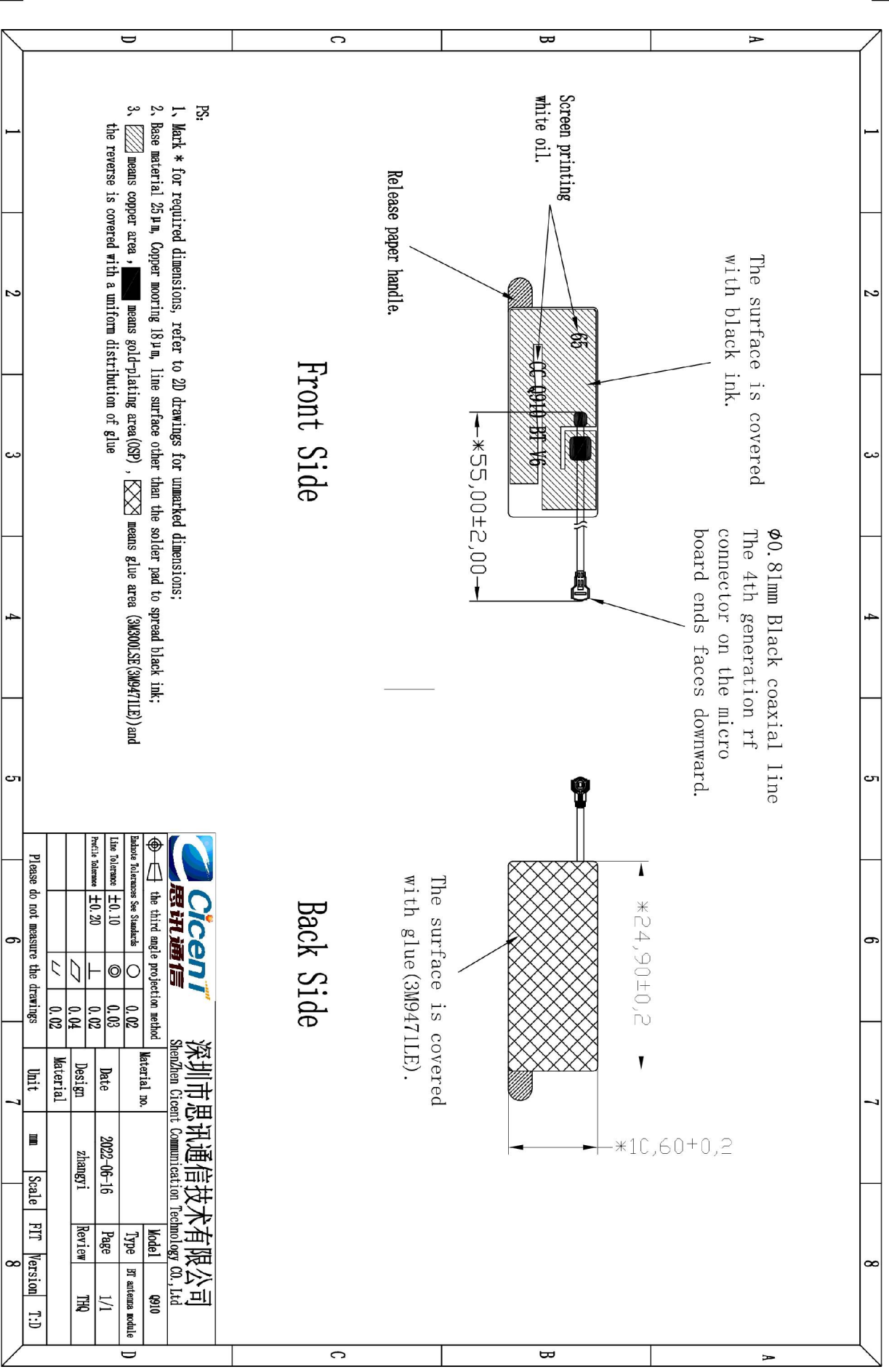




III: Structure file:



		<b>深圳市思讯通信技术有限公司</b> ShenZhen Cicent Communication Technology Co., Ltd	
	the third angle projection method	Material no.	Model
Balance tolerance	See Standards	Date	Type
Line Tolerance	$\pm 0.10$	2022-06-16	Page
Profile tolerance	$\pm 0.20$	zhangyi	1/1
	$\perp$	Design	Review
	$\parallel$	Material	THQ
	$\nabla$	Unit	
Please do not measure the drawings		mm	Scale
		FTT	version
		7	T-D



The surface is covered with black ink.

∅0.81mm Black coaxial line  
The 4th generation rf connector on the micro board ends faces downward.

Release paper handle.

The surface is covered with glue (3M9471LE).

Front Side

Back Side

PS:

- 1、Mark \* for required dimensions, refer to 2D drawings for unmarked dimensions;
- 2、Base material 25μm, Copper mooring 18μm, line surface other than the solder pad to spread black ink;
- 3、 means copper area, means gold-plating area (OSP), means glue area (3M9471LE) and the reverse is covered with a uniform distribution of glue

深圳市思讯通信技术有限公司 Shenzhen Cicent Communication Technology Co., Ltd		Material no.		Model	q910
the third angle projection method tolerance references see standards	0.02	Date	2022-06-16	Type	RF antenna module
Line tolerance	±0.10	Design	zhangyi	Page	1/1
Profile tolerance	±0.20	Material		Review	TRQ
	0.02	Unit	mm	Scale	1:1
Please do not measure the drawings		7	8	FTT	Version