



Antenna Part Specification

Project name:	TWS-2126
Antenna name:	R-BT antenna
Antenna type:	dipole
Version:	V1.0
Date:	2026.3.3
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



Contents

I: The report of passive data	3
II: 3D Active test report of antenna	9
III: Antenna matching circuit	9
IV: Antenna structure diagram file	10

Change record			
Compile / change date	Reason for change	Changed content	Version
2026.3.3	First edition	First edition	V1.0

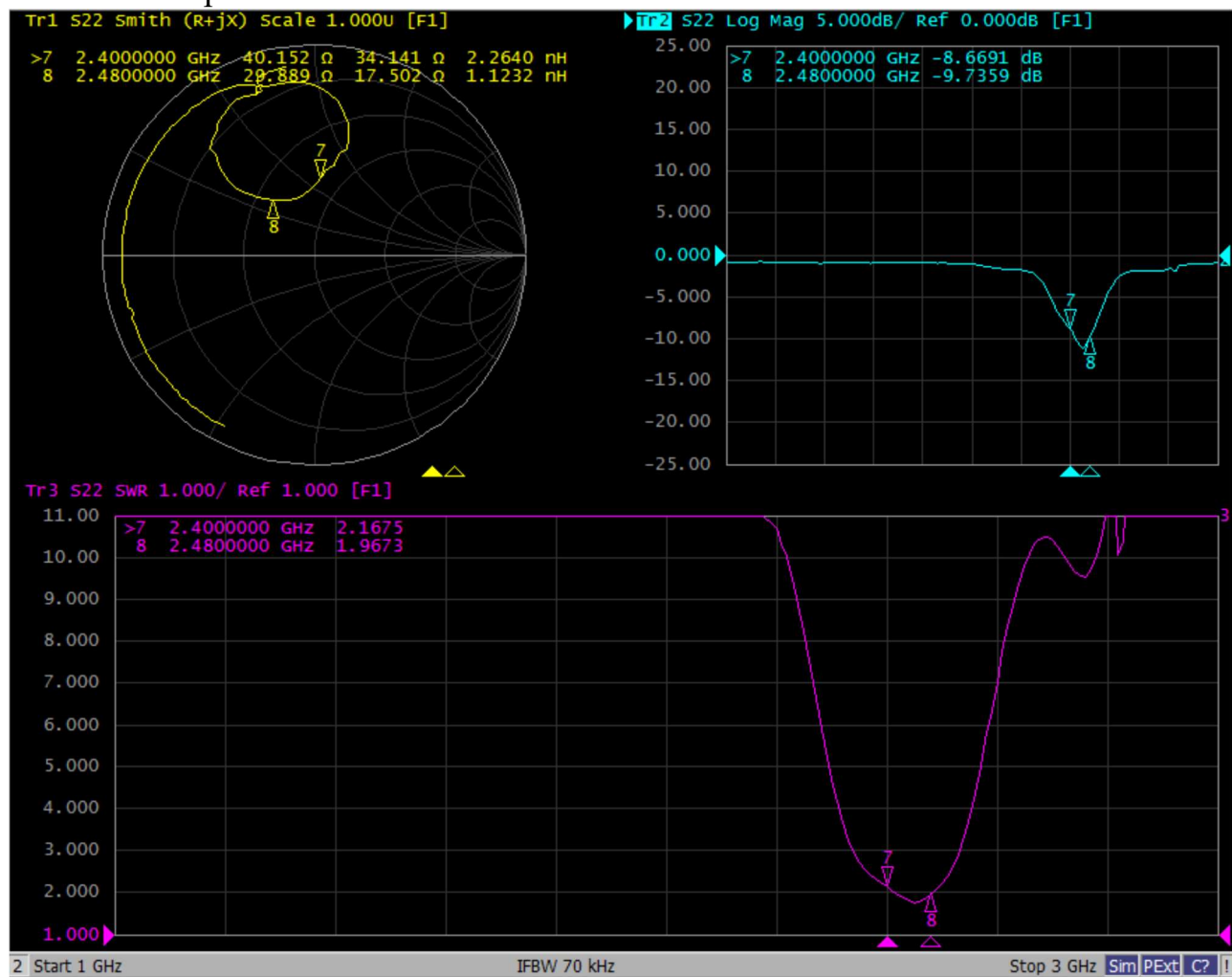


I: The report of passive data



Angilent E5071C

Antenna S11 parameter: (free)

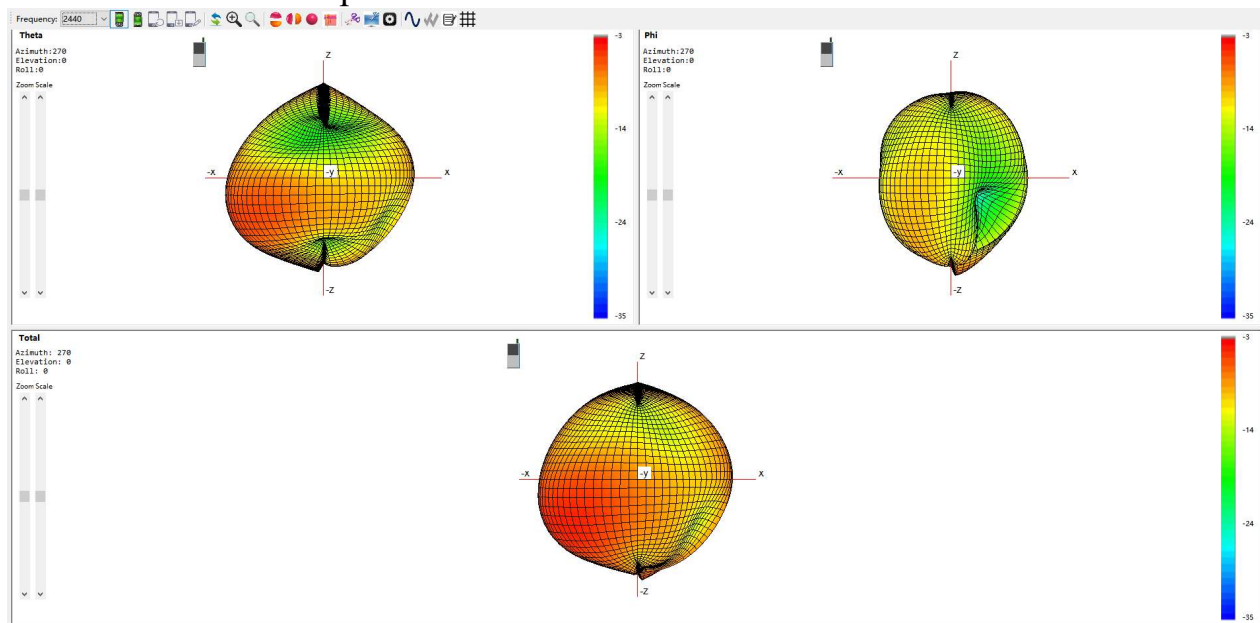




Antenna efficiency and gain: (free)

2400-2480 MHz			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	23.3	-6.3	-3.7
2410	23.5	-6.3	-3.6
2420	23.5	-6.3	-3.4
2430	23.2	-6.4	-3.4
2440	22.8	-6.4	-3.3
2450	22.5	-6.5	-3.3
2460	21.9	-6.6	-3.3
2470	20.9	-6.8	-3.5
2480	20.0	-7.0	-3.7
average	22.4	-6.5	-3.5

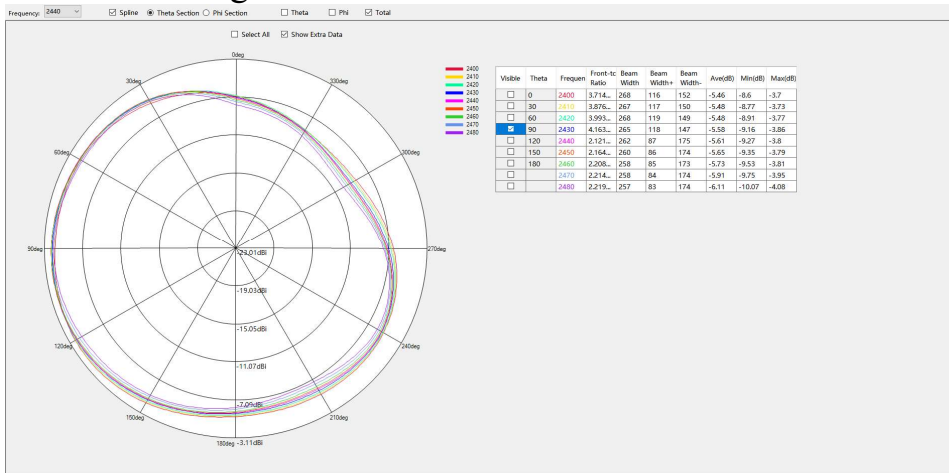
3D Antenna radiation pattern: (free)



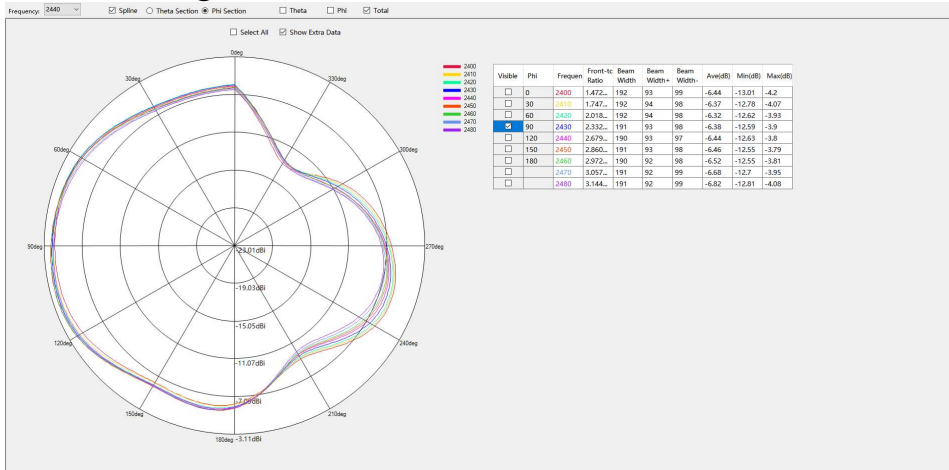


2D Antenna radiation pattern: (free)

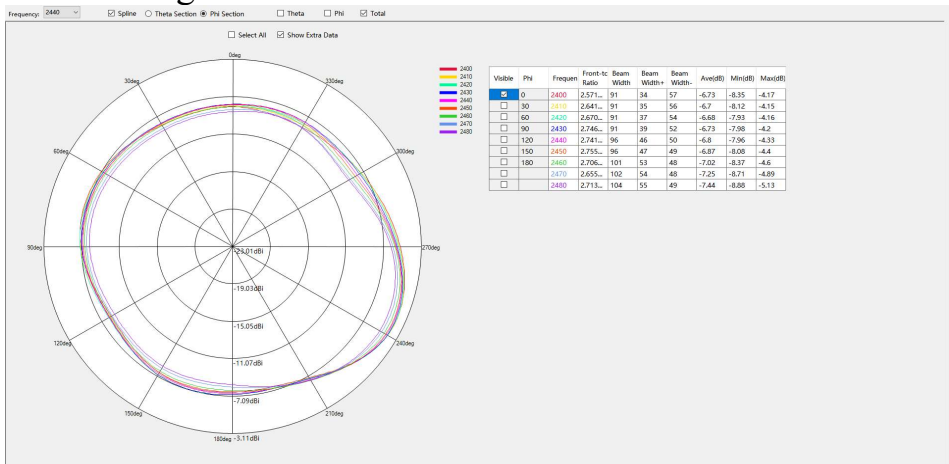
Theta=90.00deg



Phi=90.00deg

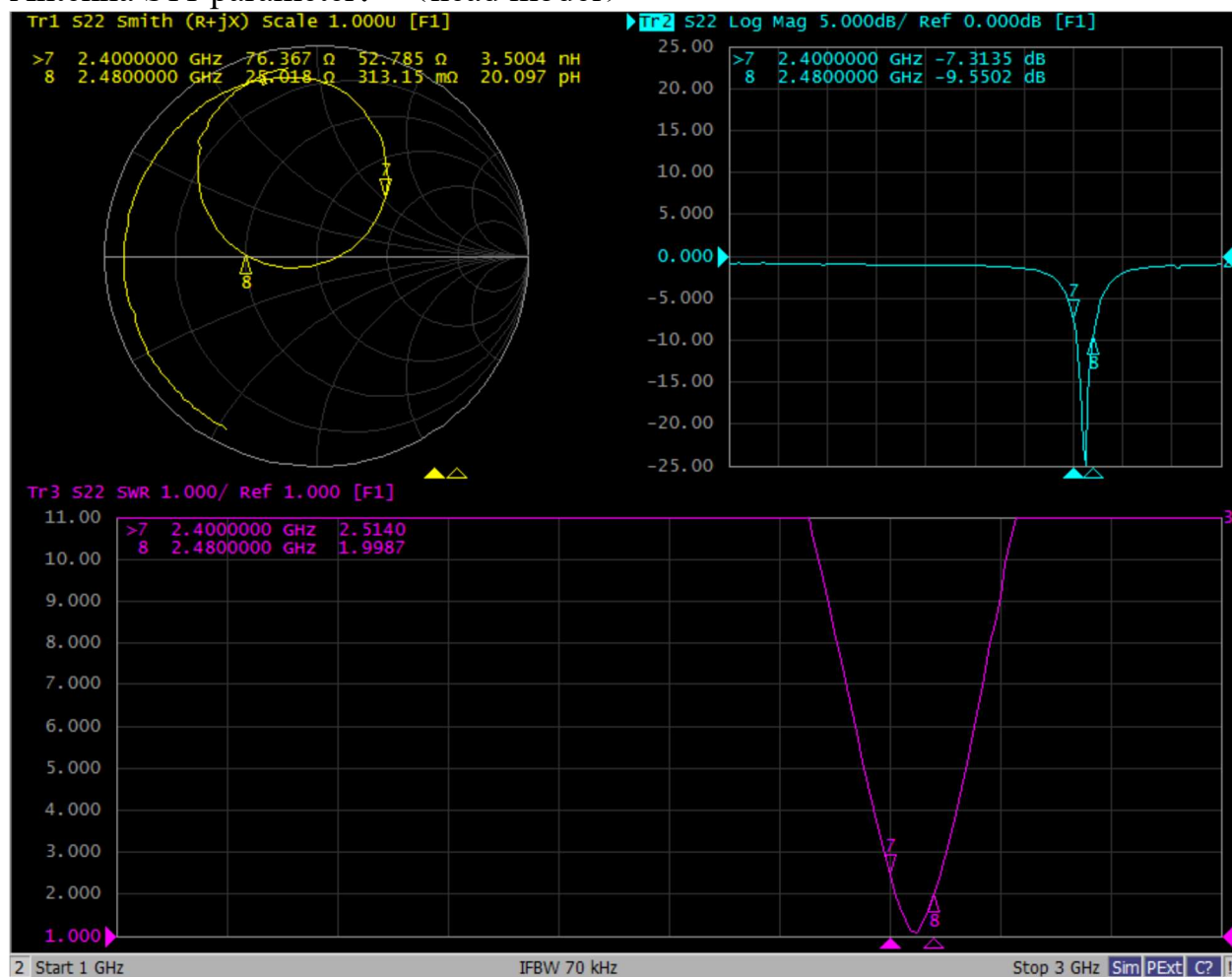


Phi=0.00deg





Antenna S11 parameter: (head model)

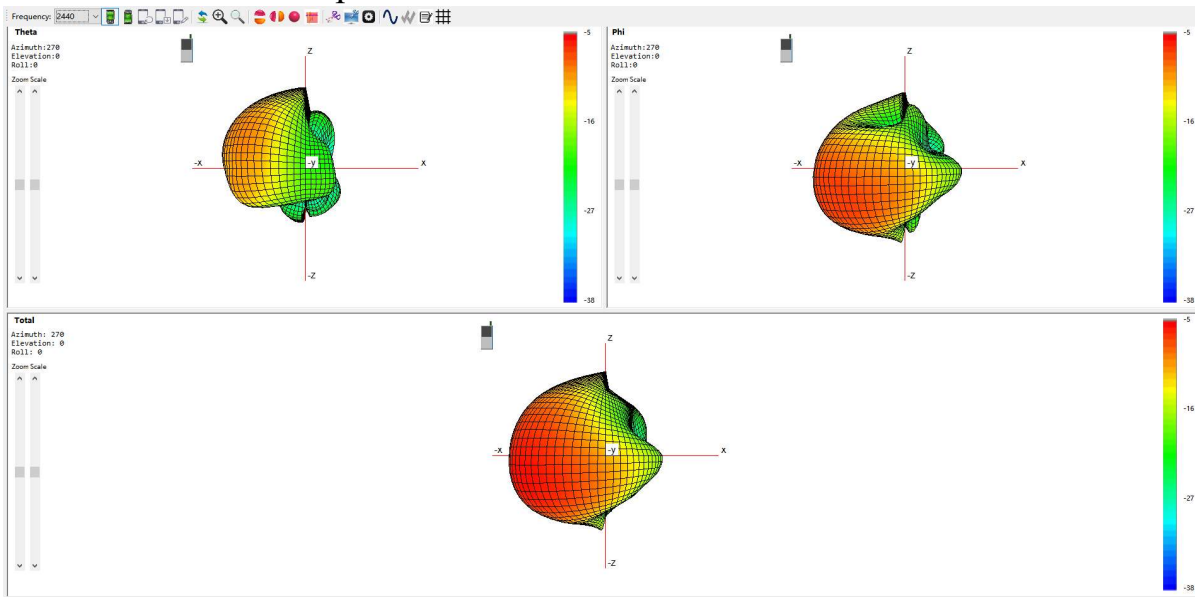


Antenna efficiency and gain: (head model)

2400-2480 MHz			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	5.7	-12.5	-5.7
2410	5.5	-12.6	-5.6
2420	5.5	-12.6	-5.5
2430	5.5	-12.6	-5.7
2440	5.7	-12.5	-5.7
2450	6.0	-12.2	-5.7
2460	6.2	-12.1	-5.6
2470	6.2	-12.1	-5.4
2480	6.1	-12.2	-5.2
average	5.8	-12.4	-5.6

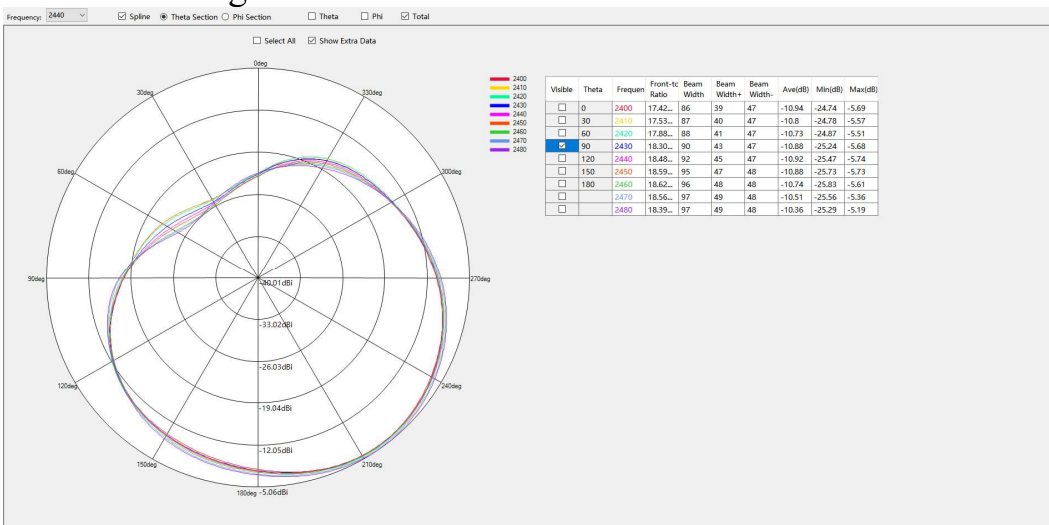


3D Antenna radiation pattern: (head model)



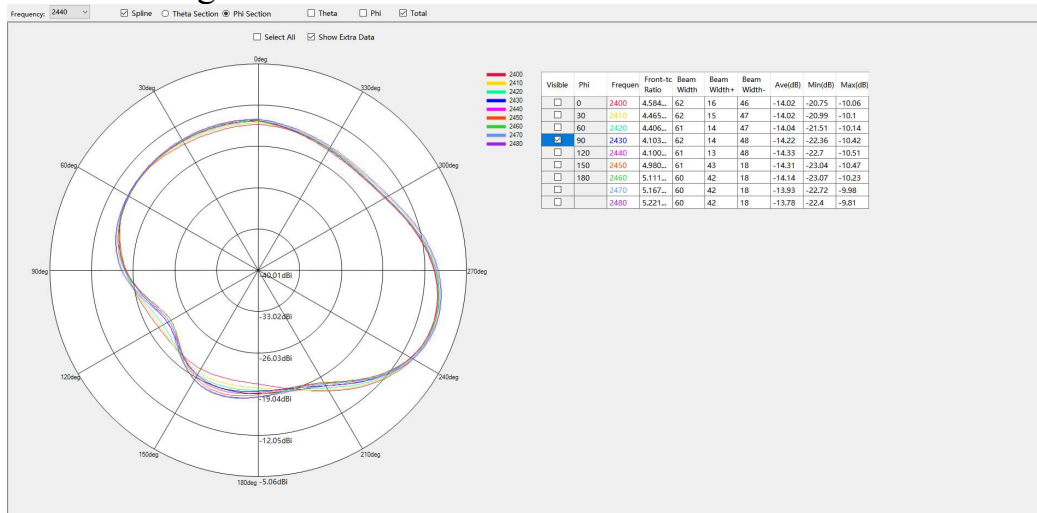
2D Antenna radiation pattern: (head model)

Theta=90.00deg

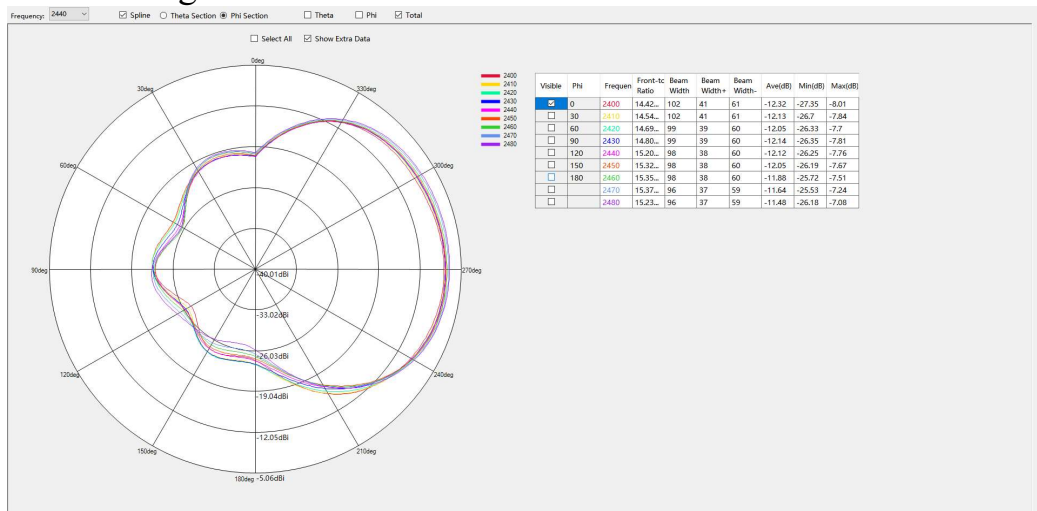




Phi=90.00deg



Phi=0.00deg





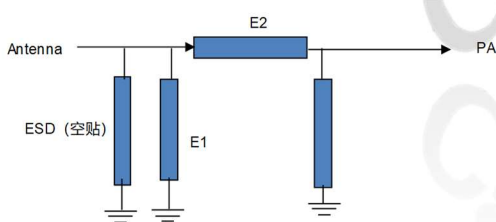
II: 3D Active test report of antenna

		free		head model	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	4.3	-88.6	-0.6	-83.3
	CH 39	5.2	-89.3	0.8	-84.1
	CH 78	3.3	-88.3	-0.5	-83.4

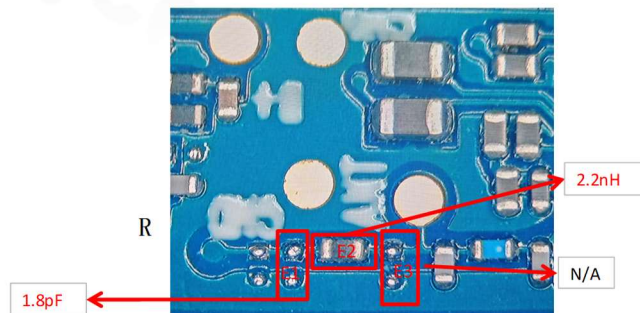


OTA Standard Chamber

III: Antenna matching circuit



Element	Value
E1(0201)	1.8pF
E2(0201)	2.2nH
E3(0201)	N/A



IV: Antenna structure diagram file

