Shenzhen Sixun Communication Technology Co., Ltd

client：	
project name：	**MH22246**
Material category:	**L-BT antenna**
edition：	**V1.0**
date：	**2025.01.09**

Address: A505/506, Donglian Building, Chuangye 2nd Road, Dalang Community, Xin 'an Street, Bao' an District, Shenzhen

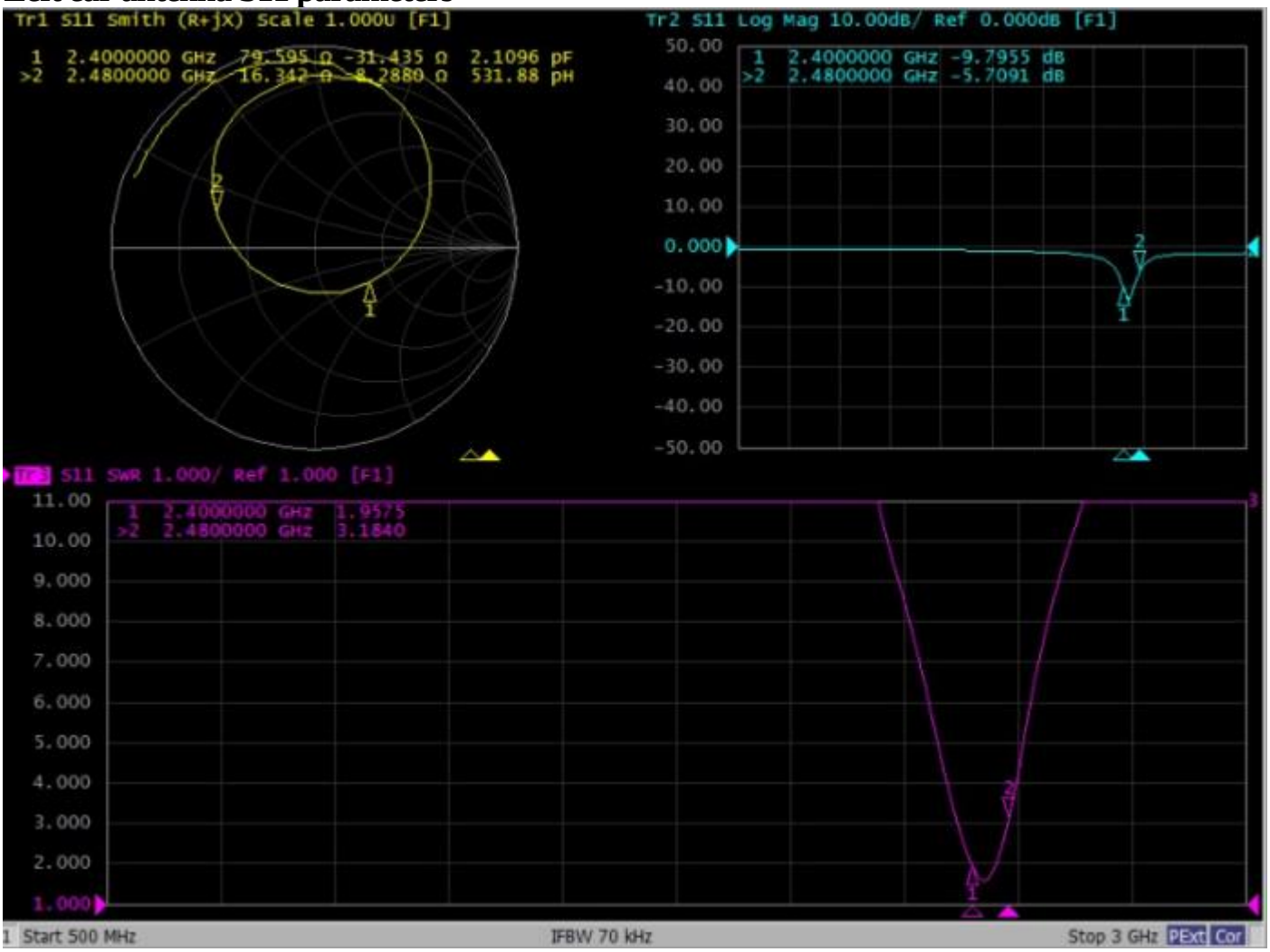
catalogue

Change log			
Date of preparation/revision	**Reasons for change**	**Changes**	**edition**
2025.01.09	**First edition**	**First edition**	**V1.0**

1: Passive test report

Angilent E5071C

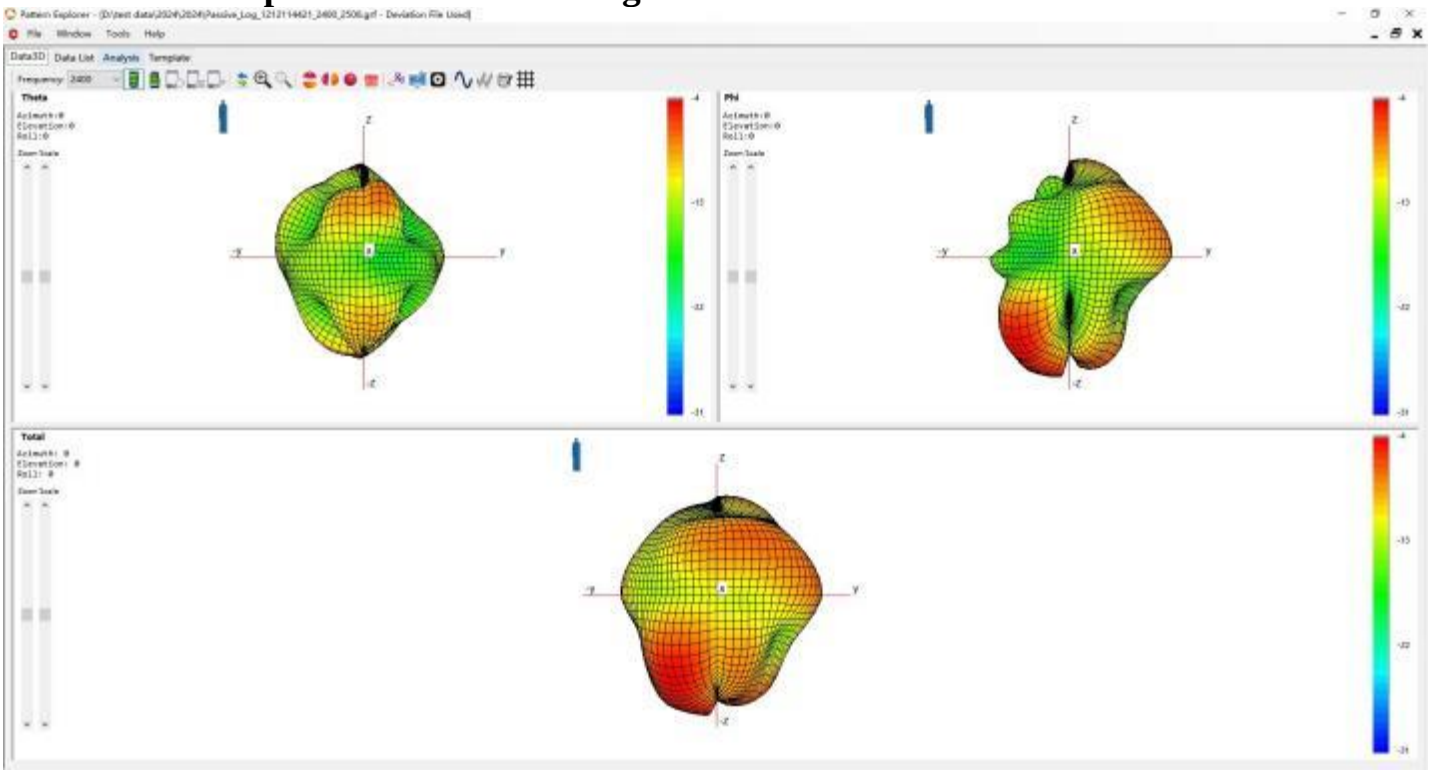
Left ear antenna S11 parameters



Antenna passive efficiency:

L: Free space; PIFA			
frequency point MHz	productiveness %	productiveness (dB)	gain (dBi)
2400	12.7%	-8.95	-4.62
2410	13.6%	-8.66	-4.33
2420	14.6%	-8.36	-4.09
2430	14.9%	-8.28	-3.87
2440	14.9%	-8.26	-3.78
2450	15.5%	-8.11	-3.62
2460	14.8%	-8.29	-3.77
2470	15.0%	-8.24	-3.76
2480	14.4%	-8.41	-3.93
average value	14.5%	-8.40	-3.97

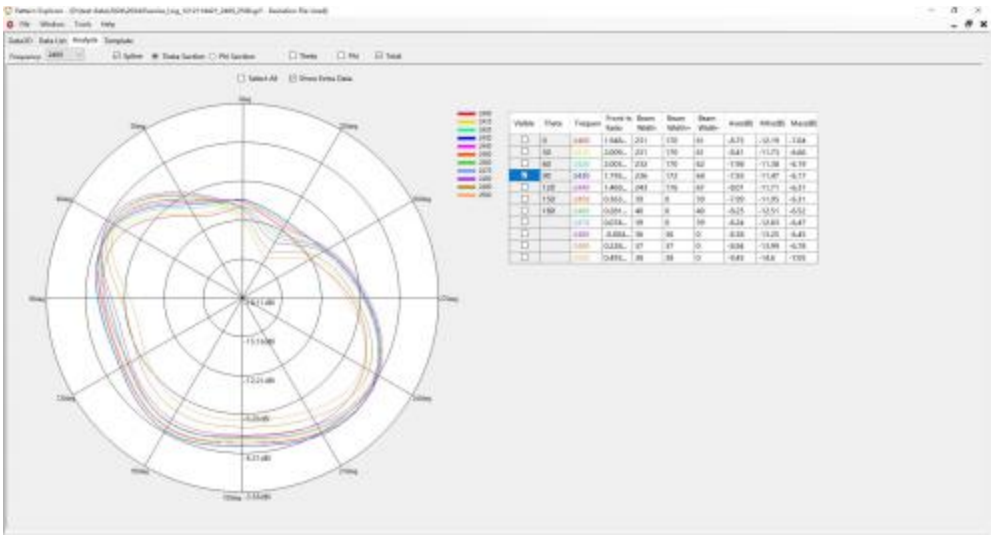
Left ear antenna passive 3D direction diagram:



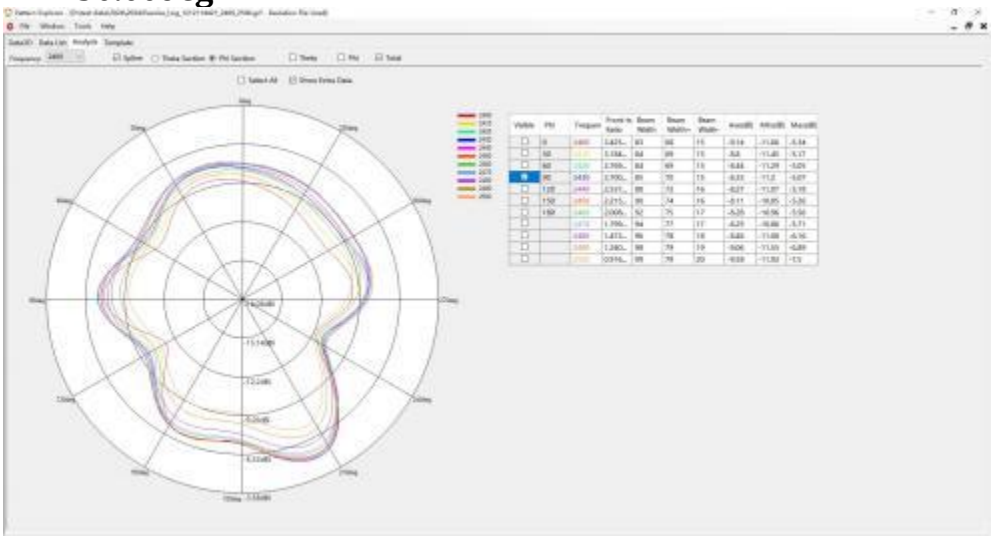
Left ear antenna passive

2D direction diagram:

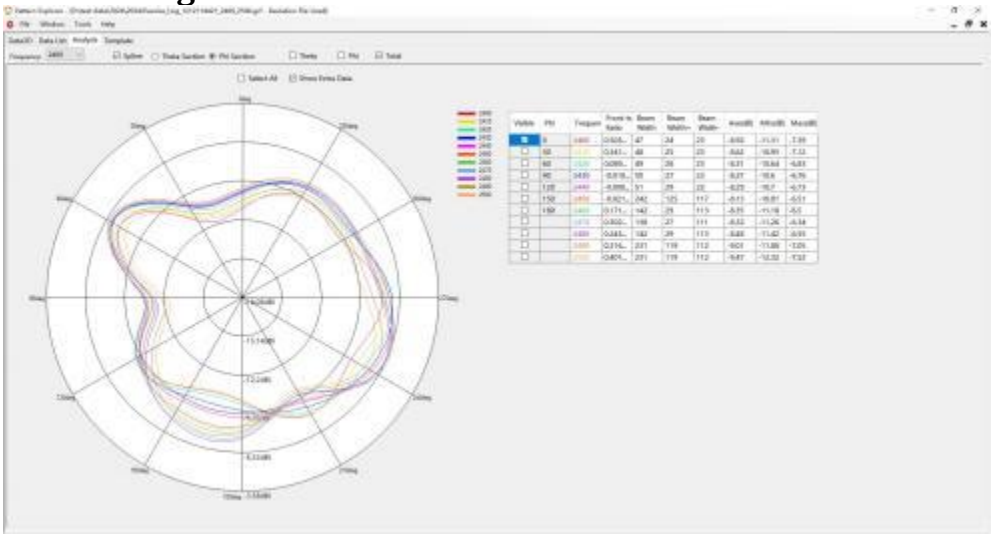
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg



Two: OTA parameters

				headform	
3	Channel	TRP	TIS	TRP	TIS
L	CH 0	-1.4	-83.8	-5.7	-79.8
	CH 39	0.5	-86.3	-5.6	-80.2
	CH 78	-0.1	-86.3	-6.4	-79.9

				headform	
2	Channel	TRP	TIS	TRP	TIS
L	CH 0	-1.3	-83.0	-5.3	-79.7
	CH 39	1.3	-86.2	-5.2	-80.6
	CH 78	1.1	-86.3	-6.0	-80.0

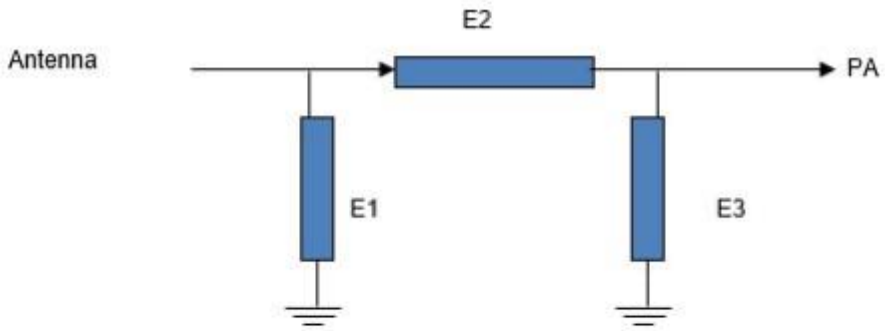
				headform	
6	Channel	TRP	TIS	TRP	TIS
L	CH 0	-1.4	-83.2	-6.1	-80.4
	CH 39	0.5	-86.0	-4.8	-80.8
	CH 78	1.3	-86.8	-5.0	-80.7

OTA Standard Chamber

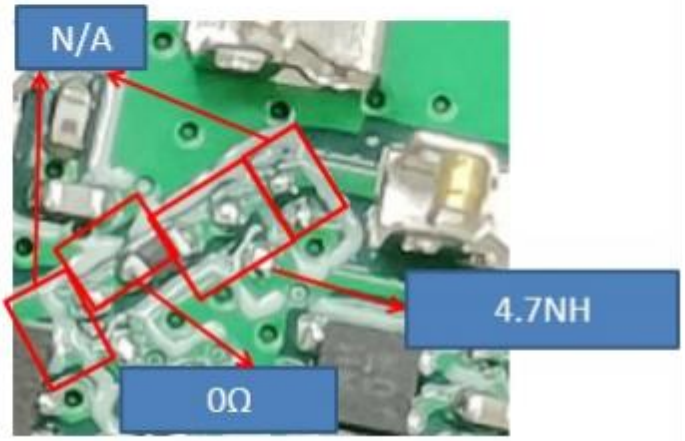
3: Installation precautions

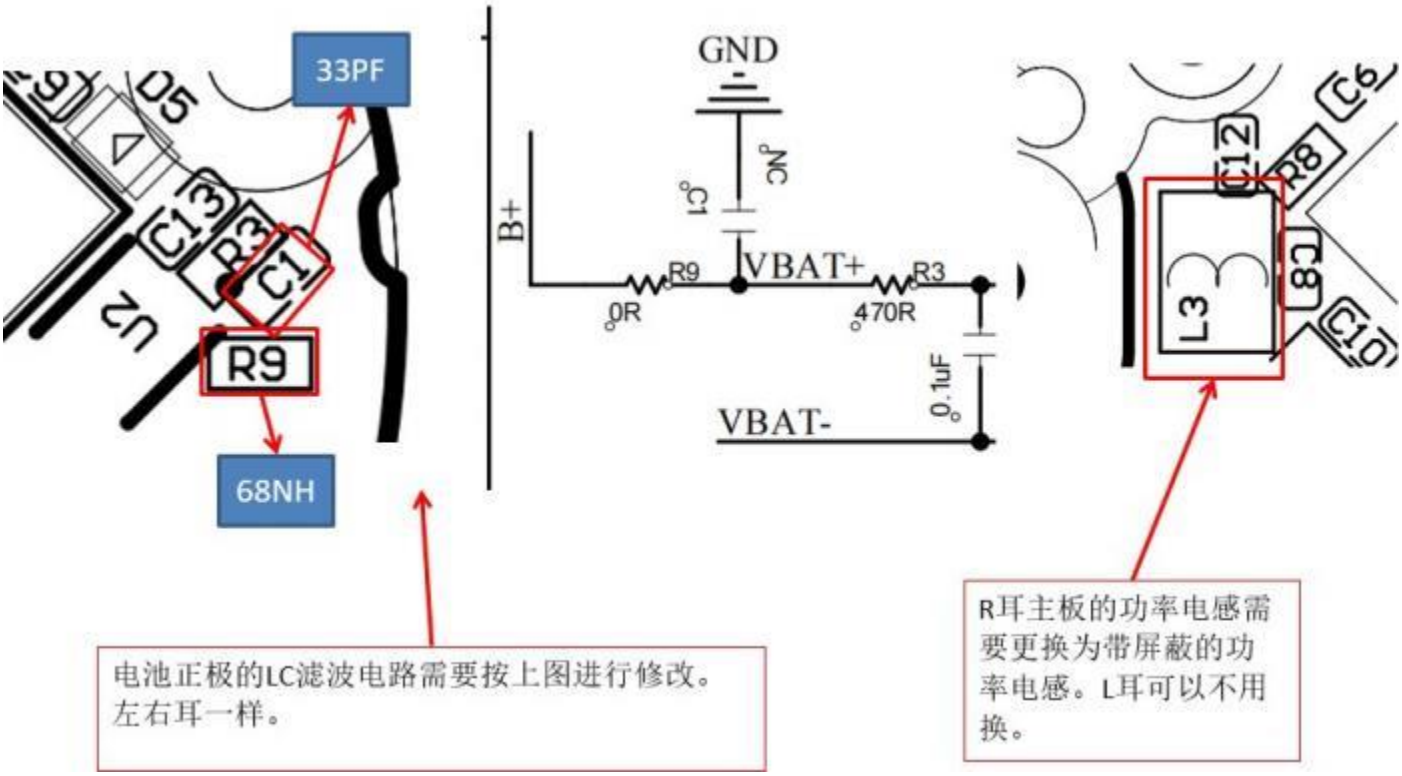
Note that the length of the wire cannot be changed at will, and the arrangement and assembly mode of the wire should be controlled in accordance with the instructions in the figure above. Otherwise, there may be a risk of consistency.

Four: matching circuit



Element	Value
E1(0201)	4.7NH
E2(0201)	0Ω
E3(0201)	N/A





5: Structural drawings