



样品规格书

项目名称:	HP01
物料类别:	BT 天线
版本:	V2.0
日期:	2022.09.02



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变更记录栏 Change Record field			
编制/变更日期 Compilation/Change date	变更理由	变更内容	版本
2022.08.29	初版发行	初版发行	V1.0
2022.09.02	结构优化	更新线路及走线	V2.0

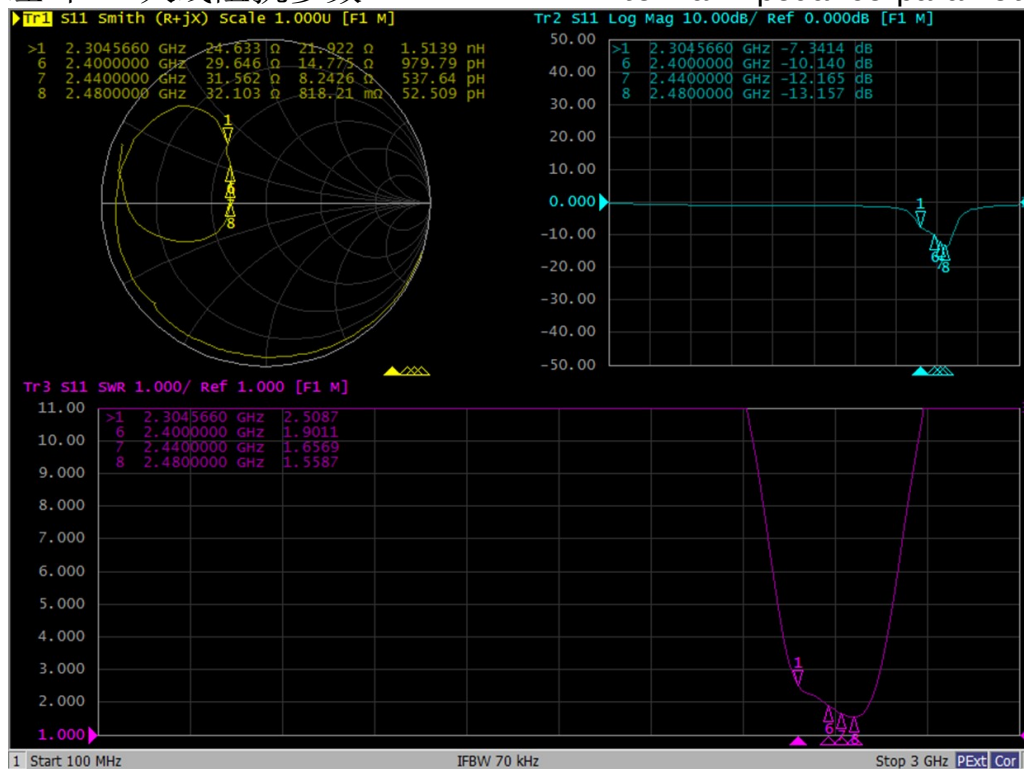


一：无源测试报告 Passive test report



Agilent E5071C

左耳 BT 天线阻抗参数 left ear BT Antenna impedance parameter



左耳 BT 天线效率和增益 left ear BT Antenna efficiency and gain:

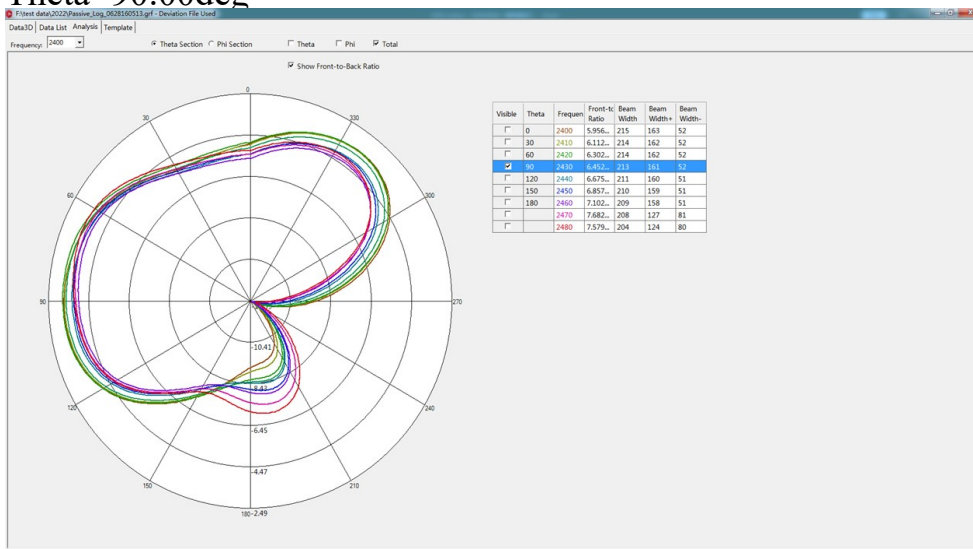
2400-2480 MHz L

频点 MHz	效率%	效率(dB)	增益(dBi)
2400	18.5%	-7.3	-2.77
2410	21.1%	-6.8	-2.65
2420	21.9%	-6.6	-2.58
2430	21.7%	-6.6	-2.72
2440	21.0%	-6.8	-2.84
2450	20.4%	-6.9	-2.77
2460	19.3%	-7.1	-2.97
2470	19.3%	-7.1	-2.83
2480	19.0%	-7.2	-2.81
平均值	20.3%	-6.9	-2.77

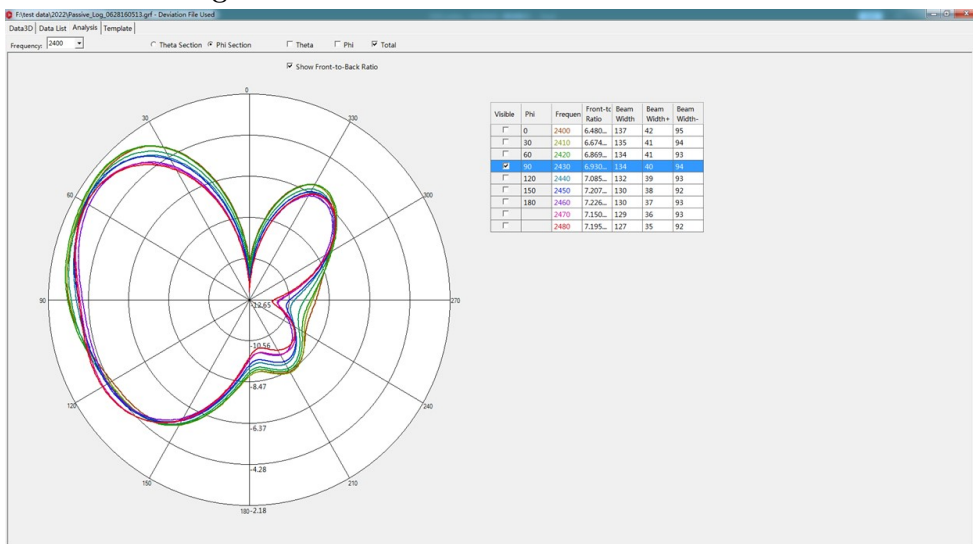


左耳天线无源方向图 left ear Antenna passive pattern:

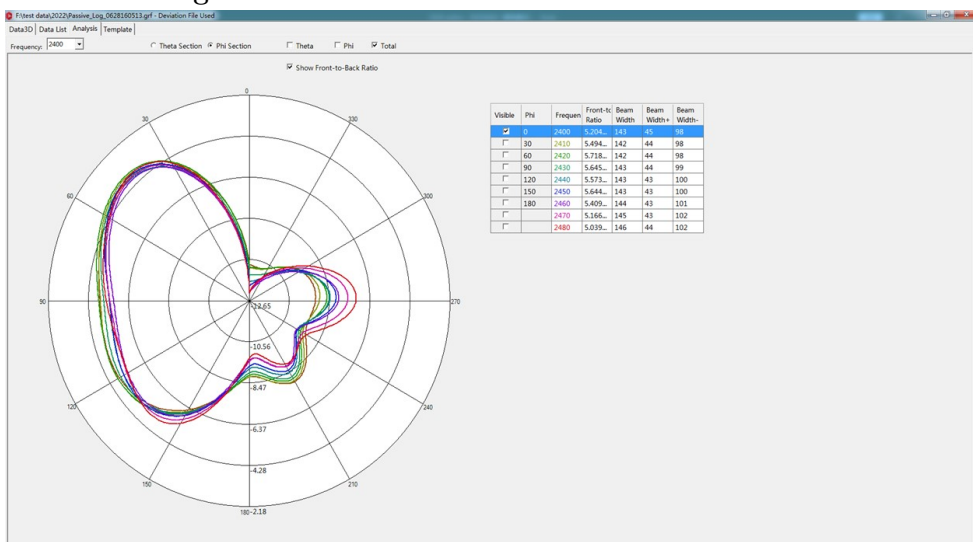
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Phi=90.00deg

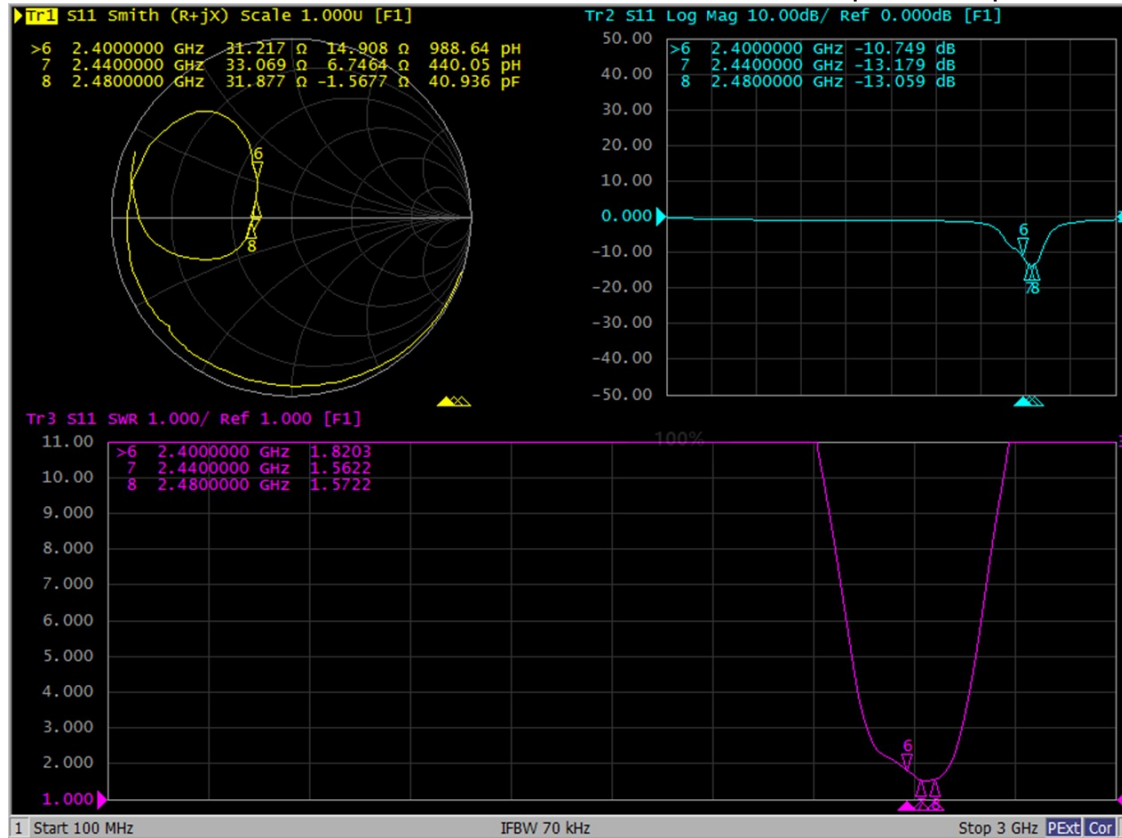


Phi=0.00deg





右耳 BT 天线阻抗参数 auris dextra BT Antenna impedance parameter



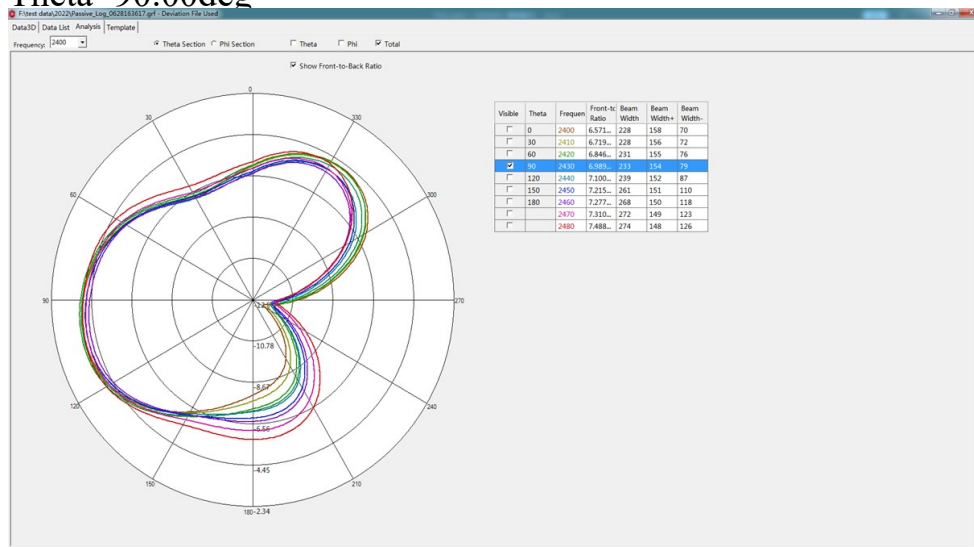
右耳 BT 天线效率和增益 auris dextra BT Antenna efficiency and gain:

2400-2480 MHz R			
频点 MHz	效率%	效率(dB)	增益(dBi)
2400	22.4%	-6.5	-3.79
2410	22.8%	-6.4	-3.72
2420	22.9%	-6.4	-3.27
2430	23.4%	-6.3	-3.05
2440	23.9%	-6.2	-2.91
2450	23.5%	-6.3	-2.82
2460	22.9%	-6.4	-2.80
2470	23.3%	-6.3	-2.65
2480	22.8%	-6.4	-2.64
平均值	23.1%	-6.4	-3.07

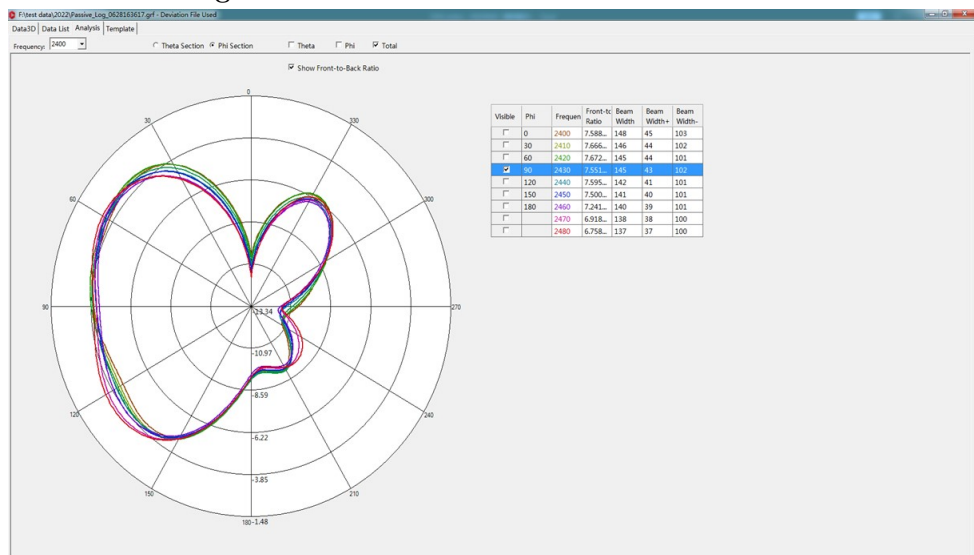


右耳天线无源方向图 auris dextra Antenna passive pattern

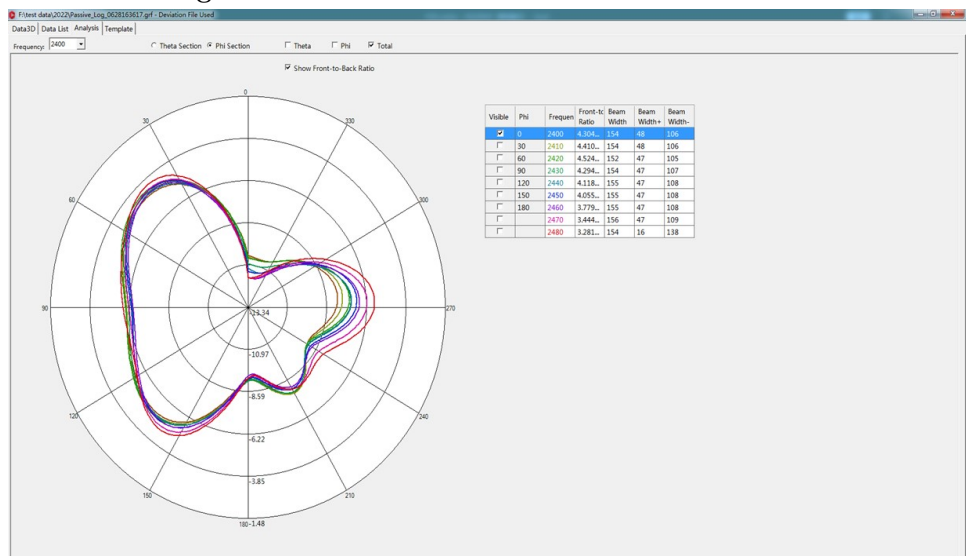
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Phi=90.00deg



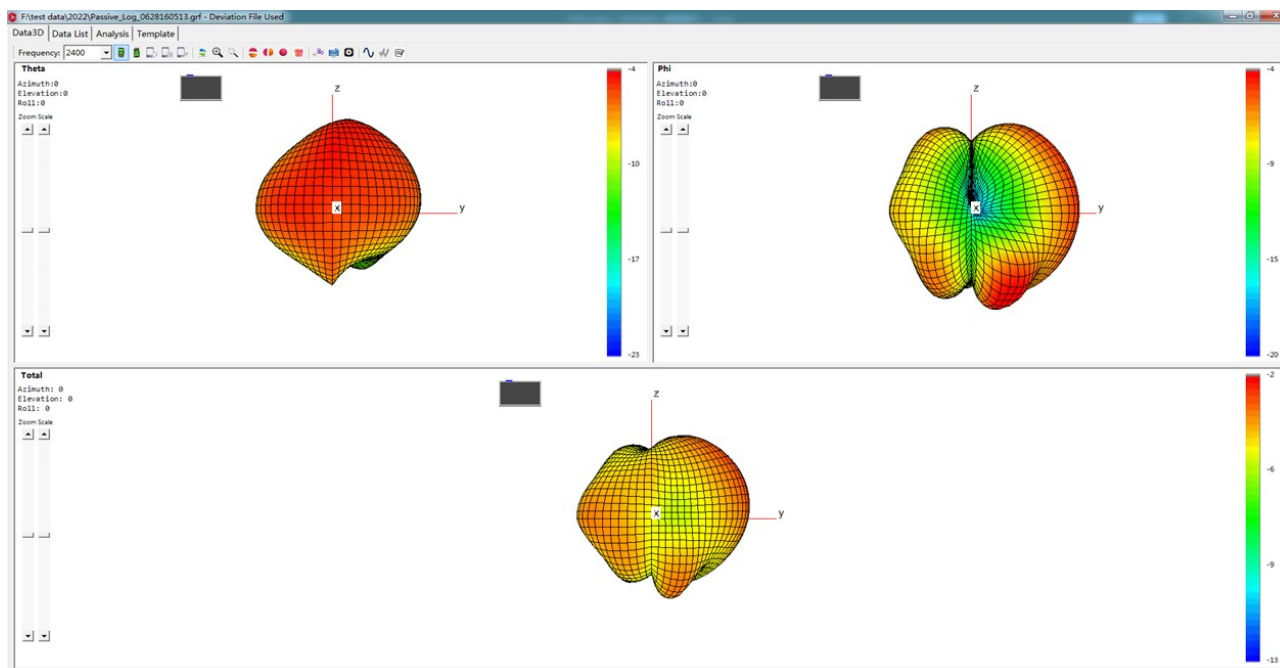
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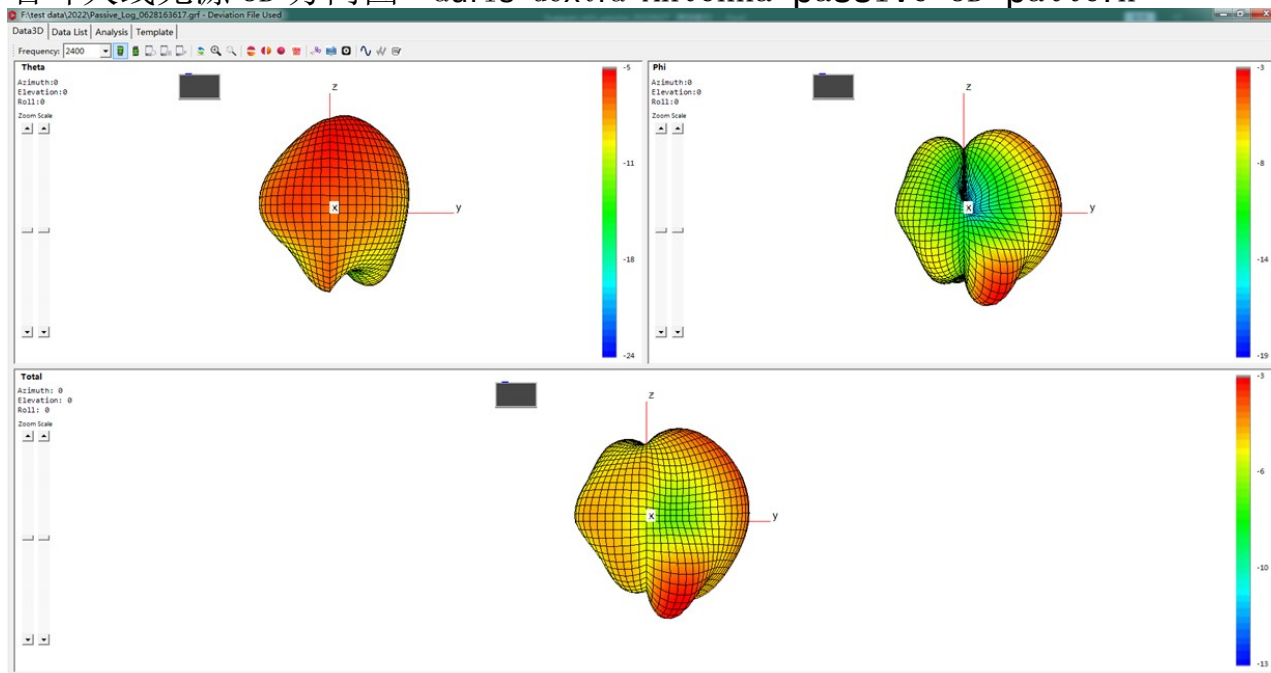
左耳天线无源 3D 方向图

left ear Antenna passive 3D pattern



右耳天线无源 3D 方向图

auris dextra Antenna passive 3D pattern





二：BT 天线 3D 暗室数据 BT ANT 3D darkroom data

自由空间	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	0.0	-84.1
	CH 39	1.5	-84.6
	CH 78	1.4	-84.2

自由空间	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	0.0	-83.7
	CH 39	1.6	-84.1
	CH 78	0.9	-84.6

人头耳	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	-2.7	-81.0
	CH 39	-2.4	-81.8
	CH 78	-2.8	-80.1

人头耳	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	-2.5	-80.6
	CH 39	-2.2	-81.6
	CH 78	-3.0	-81.4

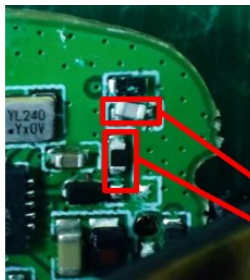


OTA Standard Chamber

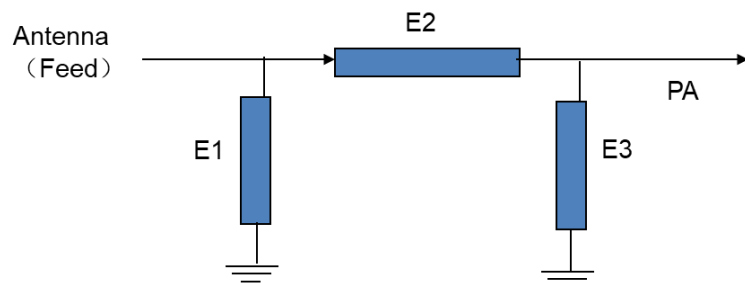


三：匹配电路 building-out circuit

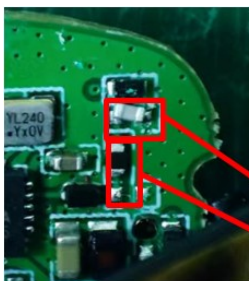
左耳天线匹配电路 Left ear antenna matching circuit:



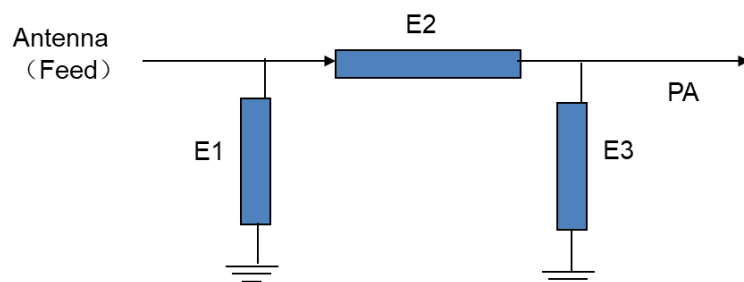
左	
Element	Value
E1	2.4pF
E2	0Ω
E3	N/A



右耳天线匹配电路: Right ear antenna matching circuit

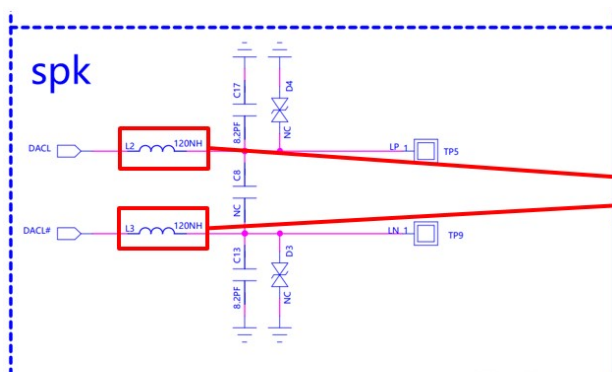


右	
Element	Value
E1	2.4pF
E2	0Ω
E3	N/A

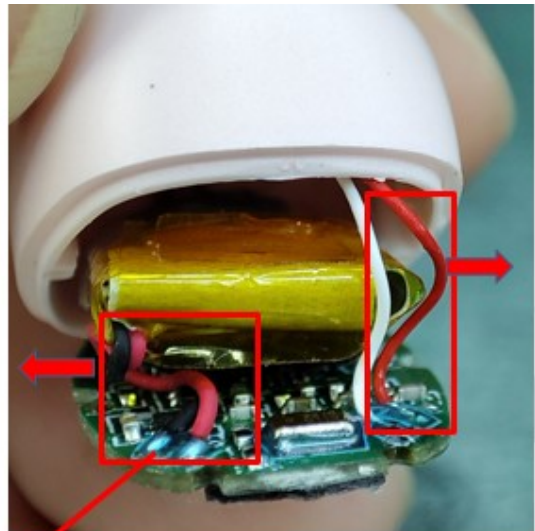
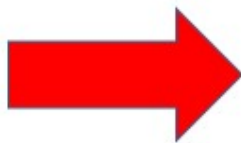
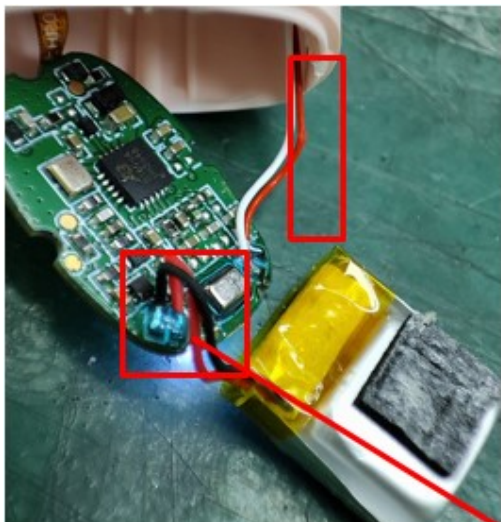
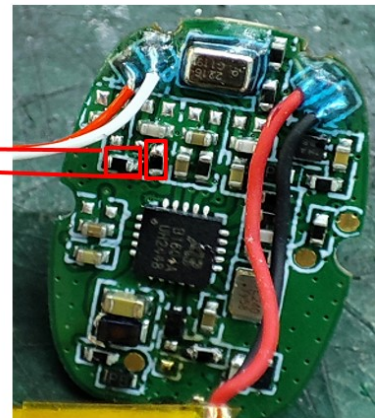




四：环境处理 environmental manipulation



此处物料
L2/L3改为0Ω



1、电池线长**13mm**，并缠绕三圈（一定要缠绕！否则性能变差），然后把电池线多出部分压倒电池与主板之间并靠外侧。2、喇叭线长**25mm**，不缠绕，按图中靠外侧正常装机即可。

1. The battery wire is 13mm long and is wound three times (be sure to be wound! Otherwise performance deteriorates), and then push the extra part of the battery wire between the battery and the motherboard and on the outside. 2 Horn wire length 25mm, not winding, according to the figure on the outside of the normal installation can be.



五：结构图档

