



Antenna Specification

客户: client	/
项目名称: Project name	ZY01
物料类别: Materialclass	BT Antenna
版本:	V1.0
日期:	2021.12.27

目录

catalogue

一：无源测试报告Source test report.....	3
二：BT 天线 3D暗室数据BT antenna 3D darkroom data	8
三：匹配电路Matching circuit.....	9
四：环境处理 Environmental treatment.....	9
五：结构图档Structure drawing file.....	10

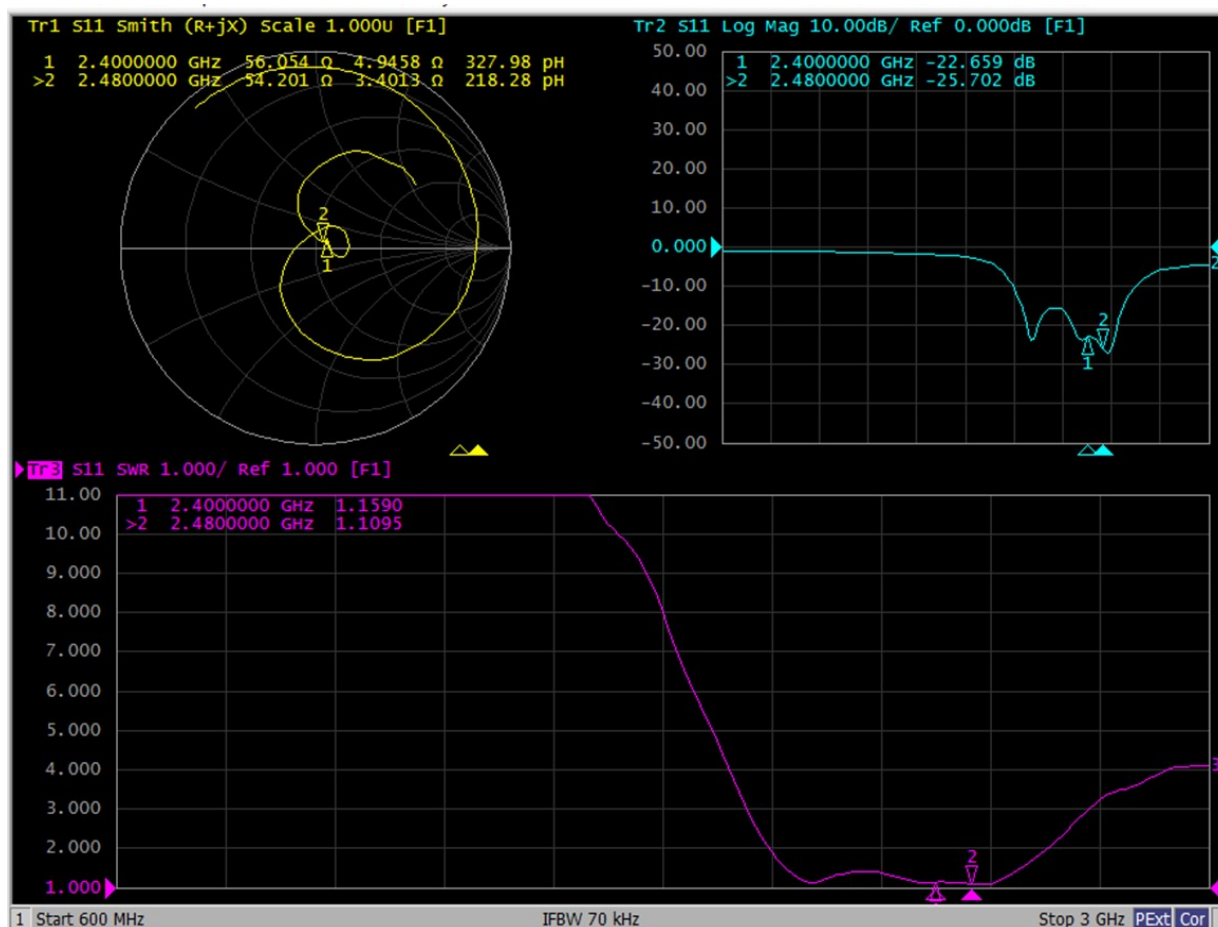
变更记录栏			
编制/变更日期	变更理由	变更内容	版本
2021.12.27	初版发行	初版发行	V1.0

1: Passive test report



Agilent E5071C

Left ear BT antenna S11 parameters

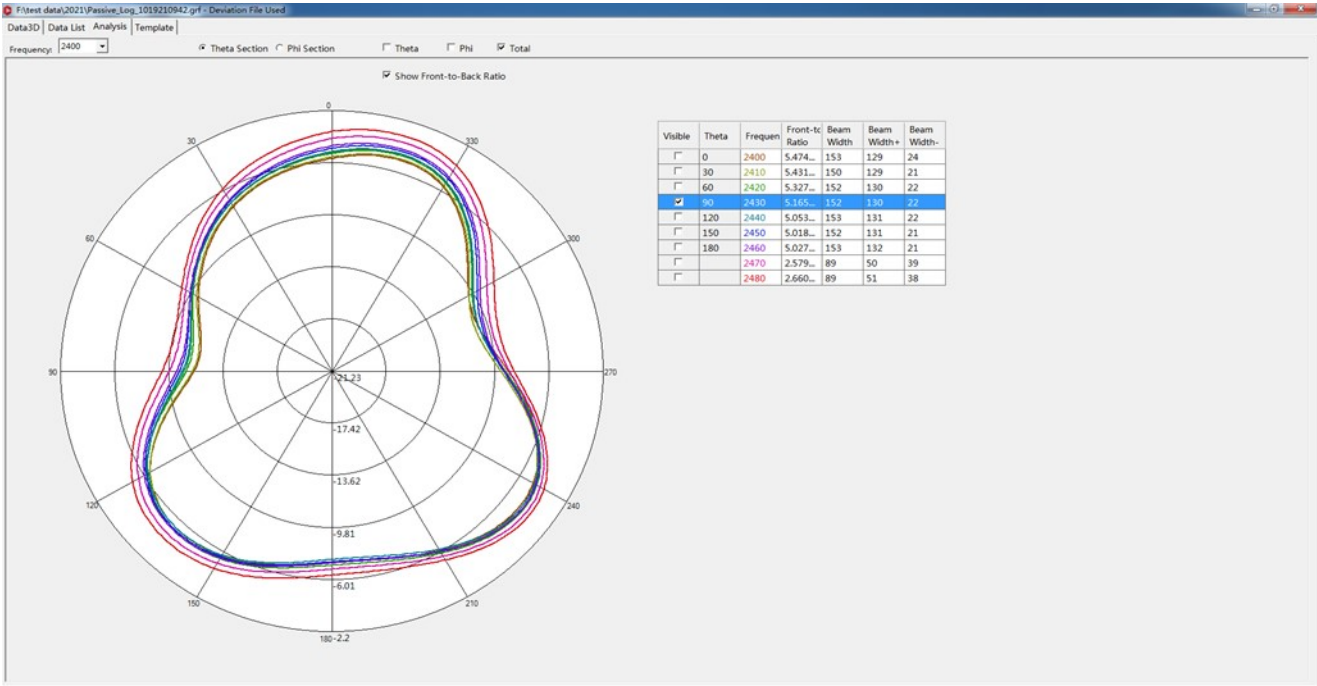


Left ear BT antenna efficiency and gain:

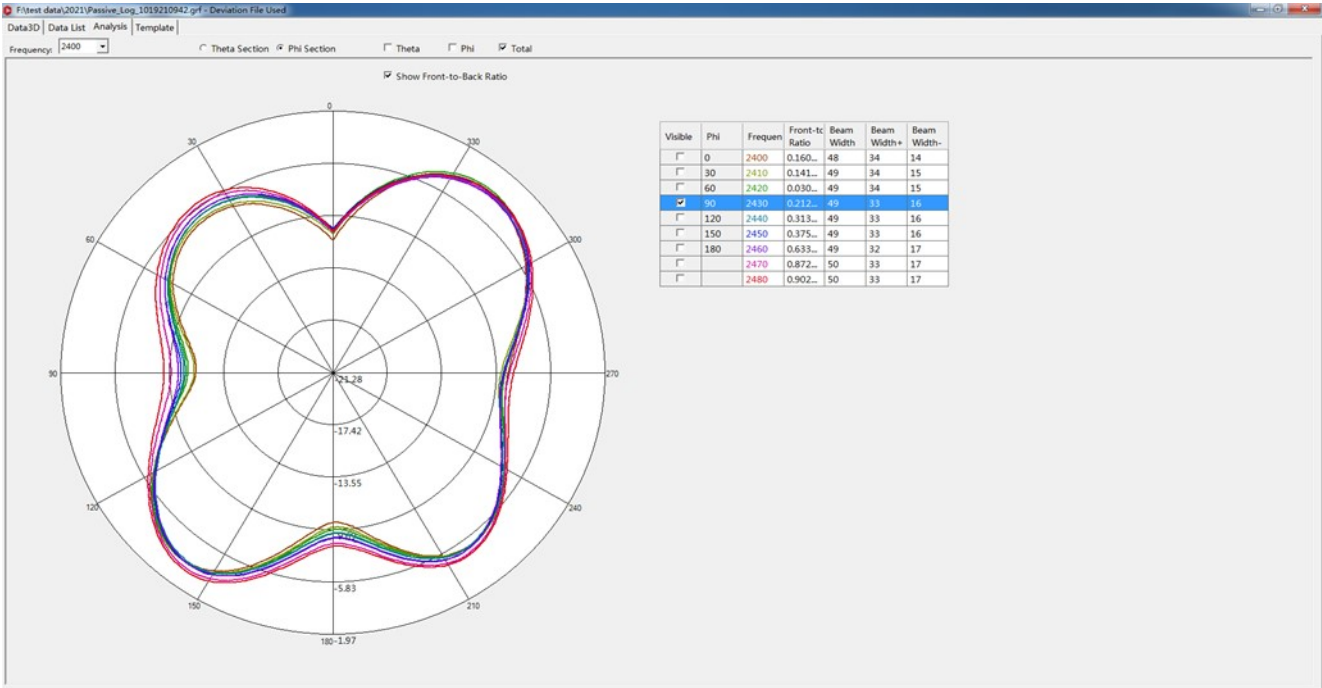
Left ear			
Frequency MHz	Efficiency%	Efficiency(dB)	Gain (dBi)
2400	24.7%	-6.1	-2.1
2410	24.9%	-6.0	-2.1
2420	26.6%	-5.8	-2.1
2430	27.0%	-5.7	-2.2
2440	28.2%	-5.5	-2.2
2450	28.4%	-5.5	-2.1
2460	29.0%	-5.4	-2.1
2470	29.3%	-5.3	-1.8
2480	28.0%	-5.5	-2.8
AV	27.3%	-5.6	-2.2

Left ear antenna passive
direction diagram:

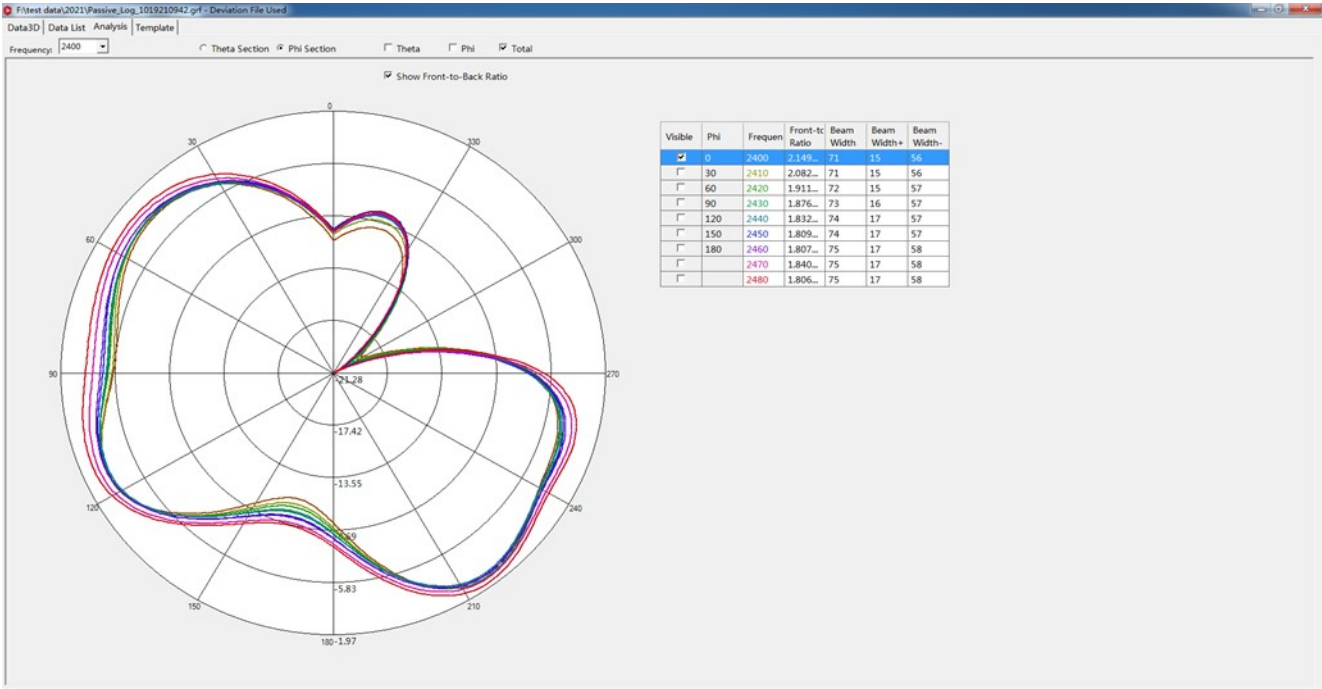
Theta=90.00deg



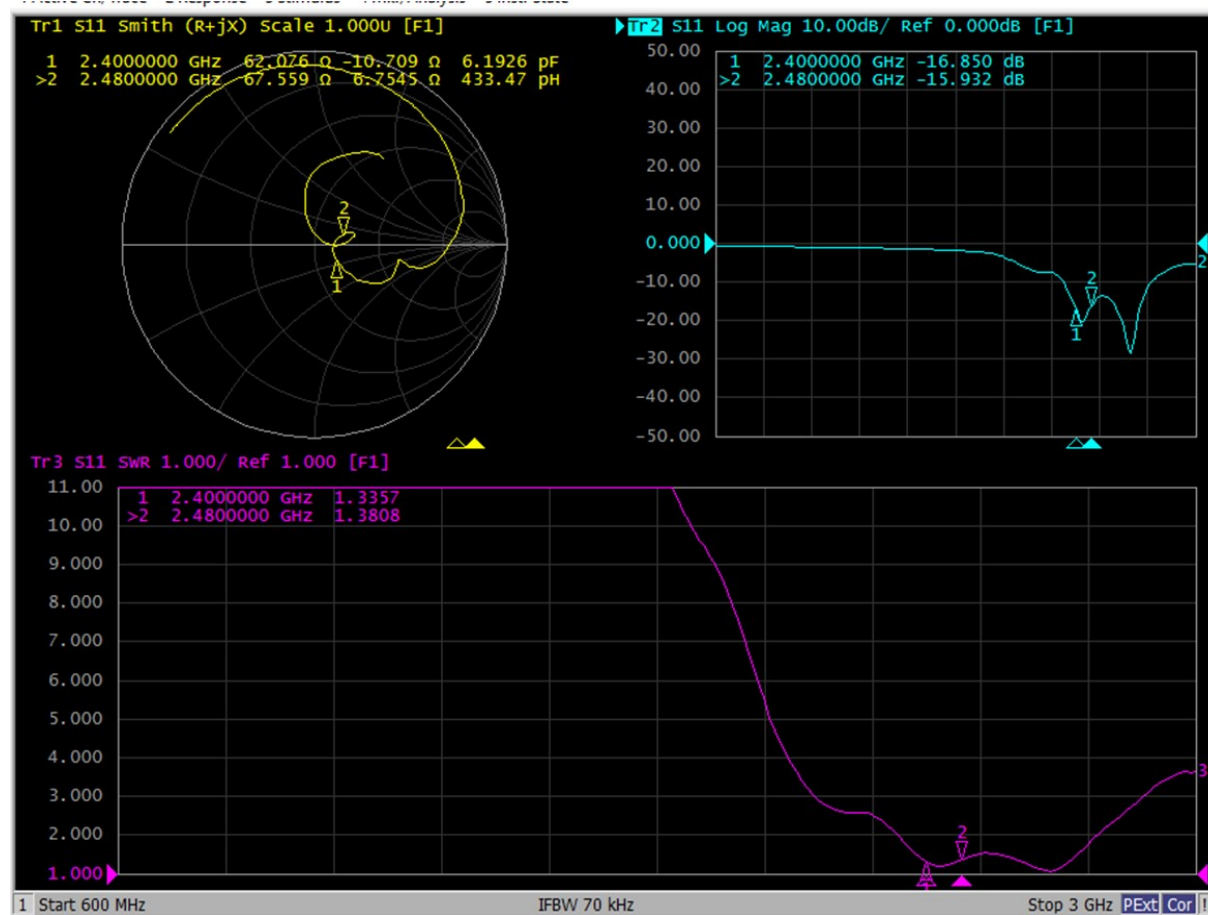
Phi=90.00deg



Phi=0.00deg



Right ear BT antenna S11 parameters



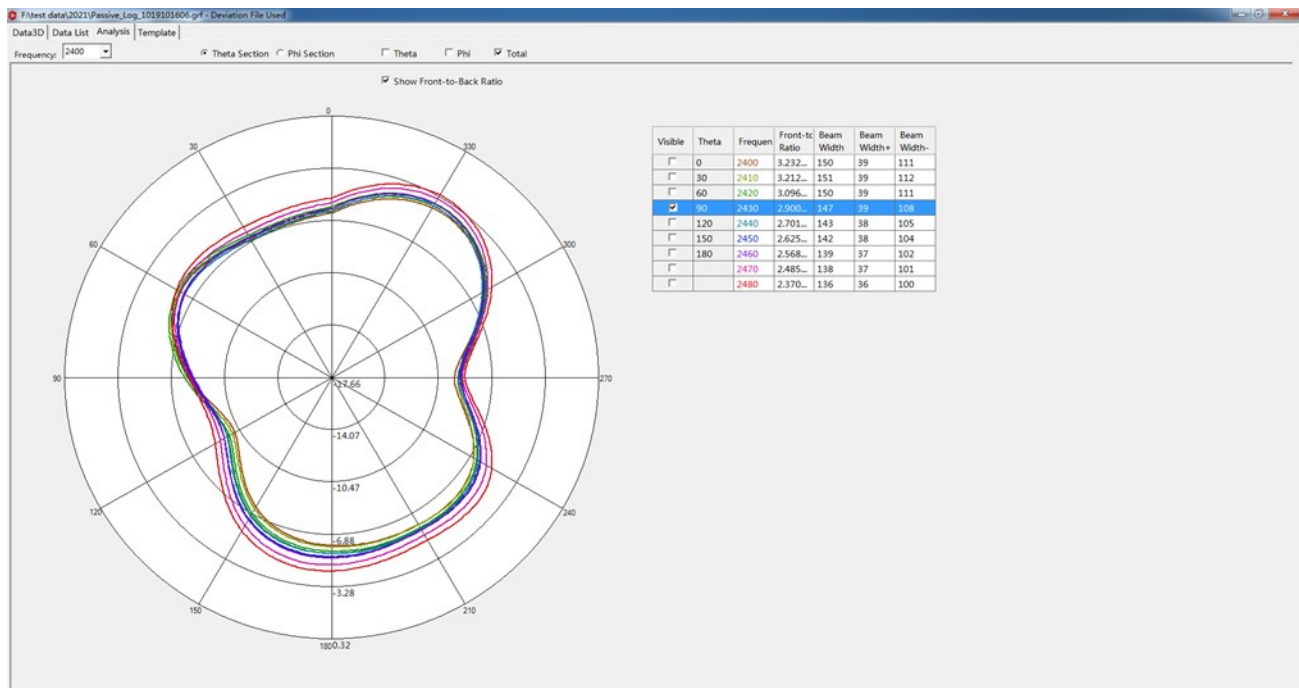
Efficiency and gain of right ear BT antenna:

A. d.

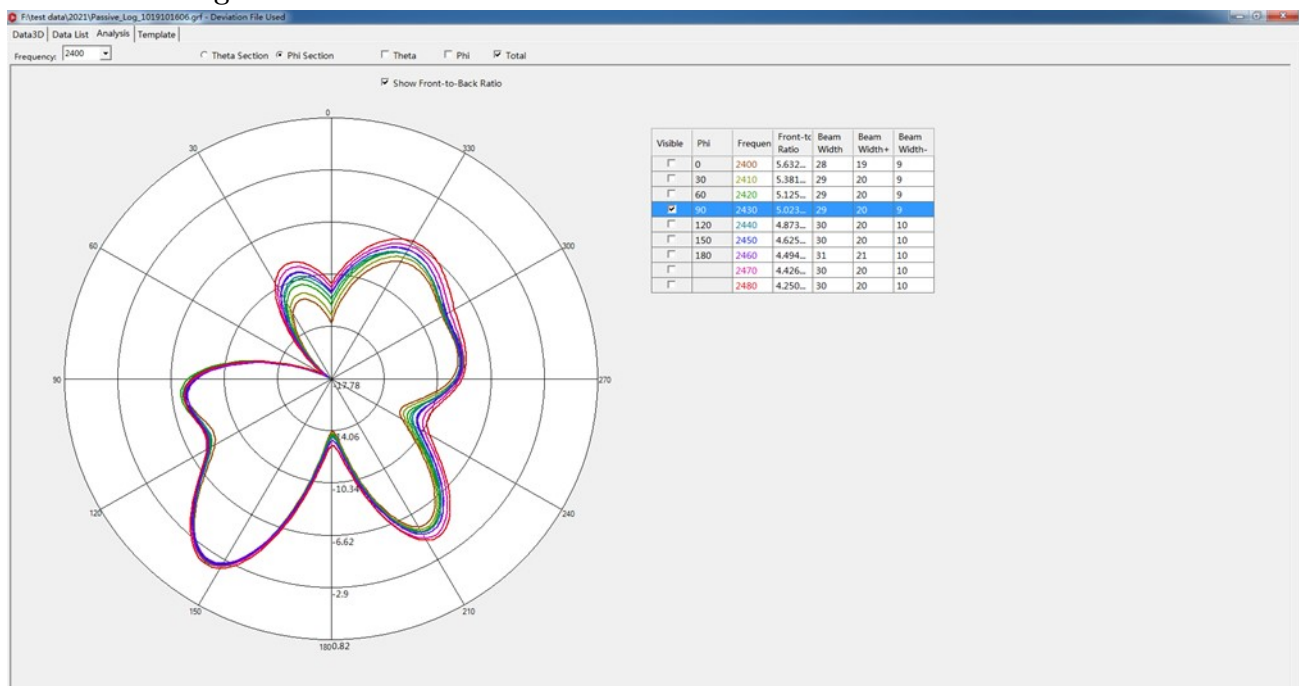
Frequency MHz	Efficiency%	Efficiency(dB)	Gain (dBi)
2400	25.5%	-5.9	-0.9
2410	26.5%	-5.8	-0.7
2420	26.5%	-5.8	-0.6
2430	26.2%	-5.8	-0.7
2440	27.3%	-5.6	-0.8
2450	27.2%	-5.7	-0.7
2460	29.2%	-5.3	-0.7
2470	30.9%	-5.1	-0.5
2480	29.3%	-5.3	-0.5
AV	27.6%	-5.6	-0.7

Left ear antenna passive
direction diagram:

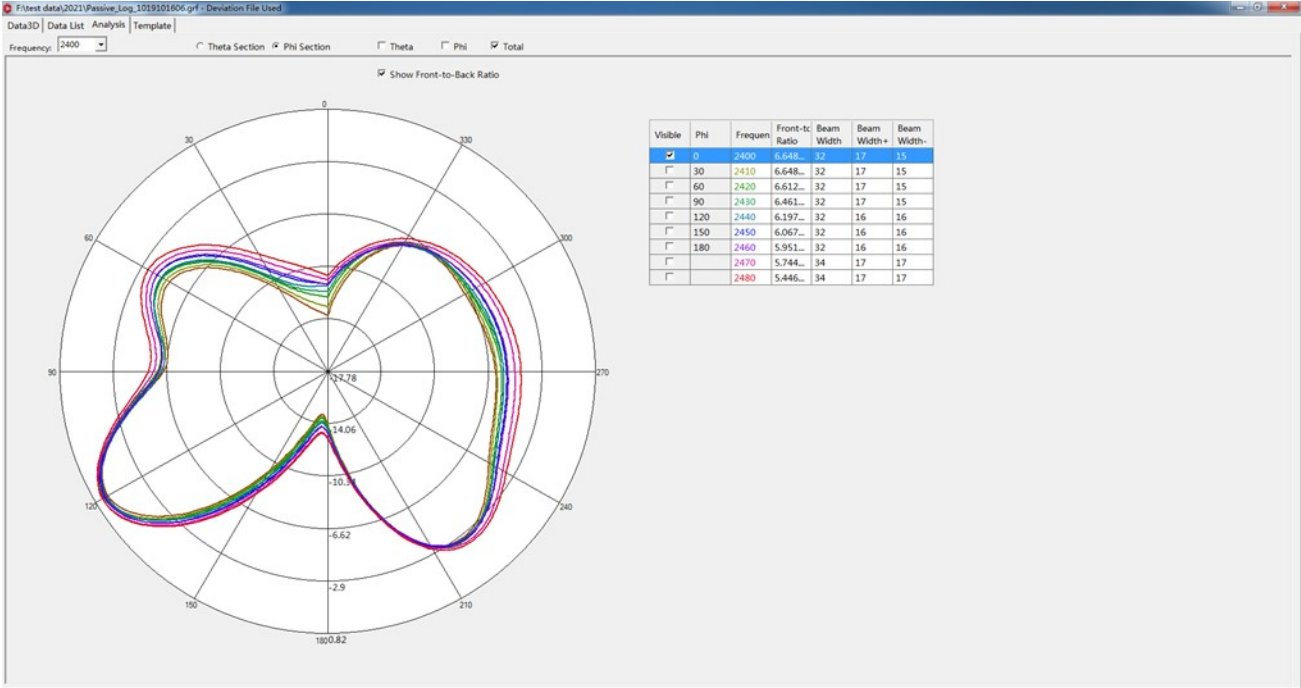
Theta=90.00deg



Phi=90.00deg



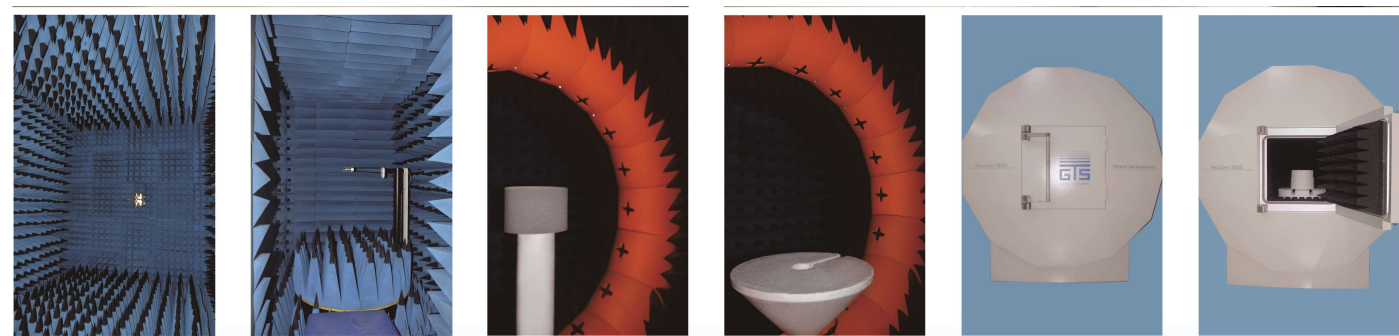
Phi=0.00deg



2: BT antenna 3D darkroom data

	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	3.7	-86.8
	CH 39	4.5	-86.7
	CH 78	5.0	-86.9

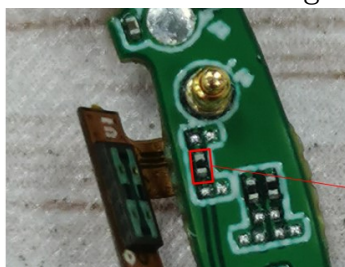
	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	4.0	-86.6
	CH 39	4.3	-86.6
	CH 78	4.4	-86.7



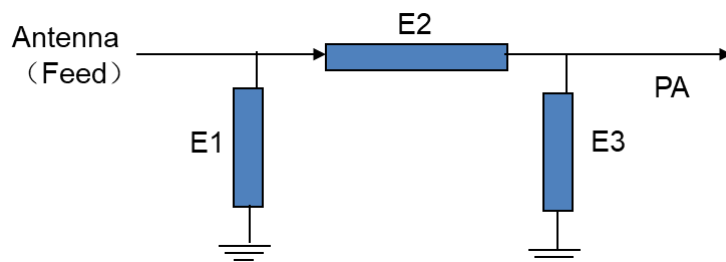
OTA Standard Chamber

3: Matching circuit

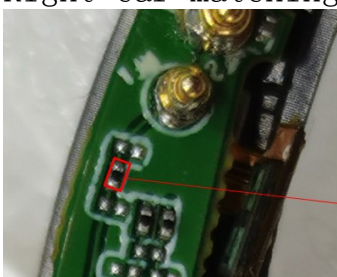
Left ear matching circuit:



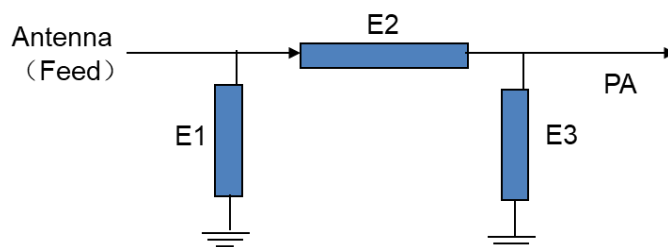
Element	Value
E3(0201)	N/A
E2(0201)	0Ω
E1(0201)	N/A



Right ear matching circuit:



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



4.Environmental treatment

- 1、保持目前的各线长和装机方式；
- 2、目前调试的单极天线效率很低，左右耳主板都需要加上地馈脚调试PIFA形式的天线。

