



Antenna Part Specification

Project name:	Breaker Pro
Material category:	BT antenna
Version:	V1.0
Date:	2022.09.27



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

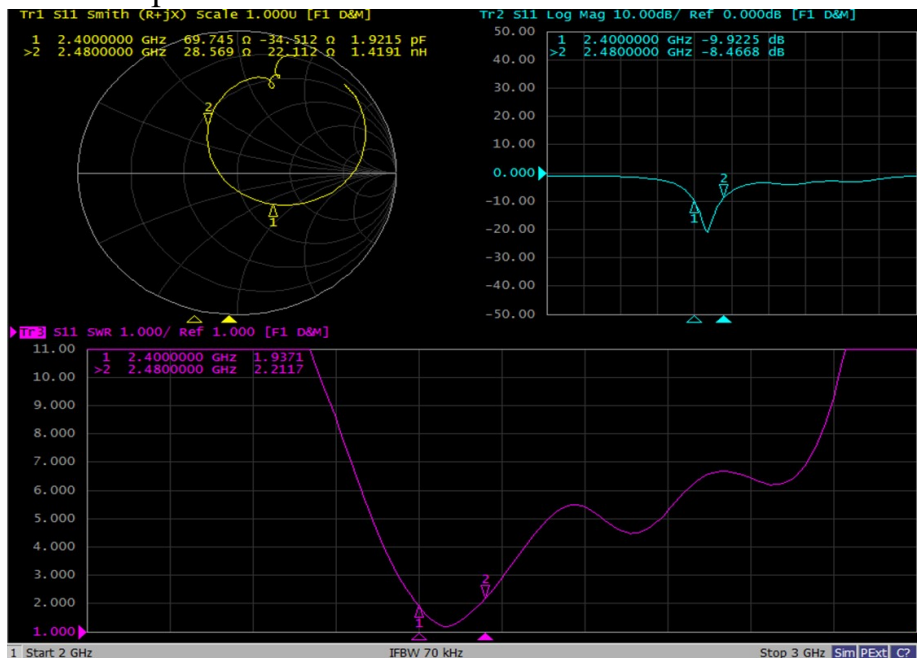


I: The report of passive data



Angilent E5071C

VSWR parameter (Left) :



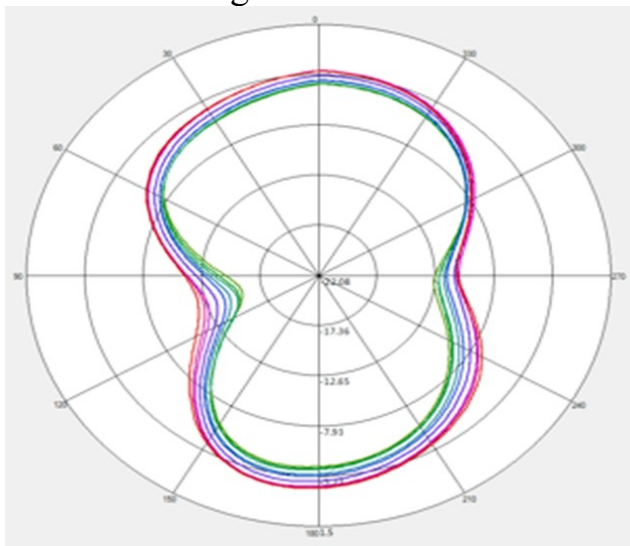
Efficiency:

L			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	24.8%	-6.1	-1.7
2410	26.3%	-5.8	-1.6
2420	27.8%	-5.6	-1.3
2430	28.0%	-5.5	-1.1
2440	28.1%	-5.5	-1.0
2450	29.7%	-5.3	-0.8
2460	29.8%	-5.3	-0.7
2470	32.3%	-4.9	-0.4
2480	34.6%	-4.6	-0.2
Average value	29.04%	-5.39	-0.99

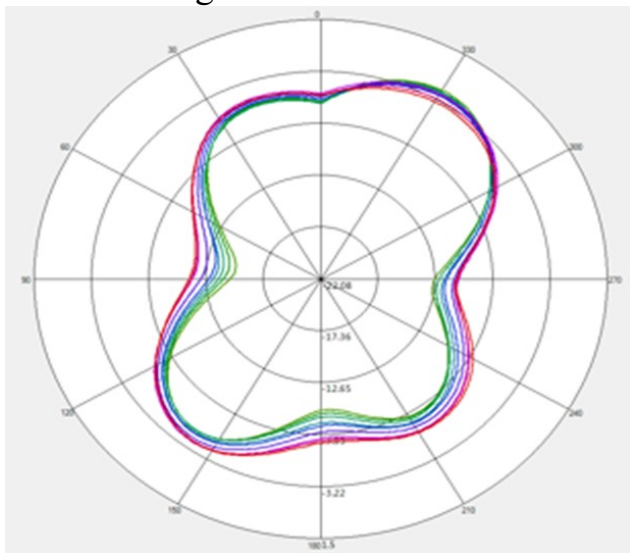


Antenna radiation pattern:

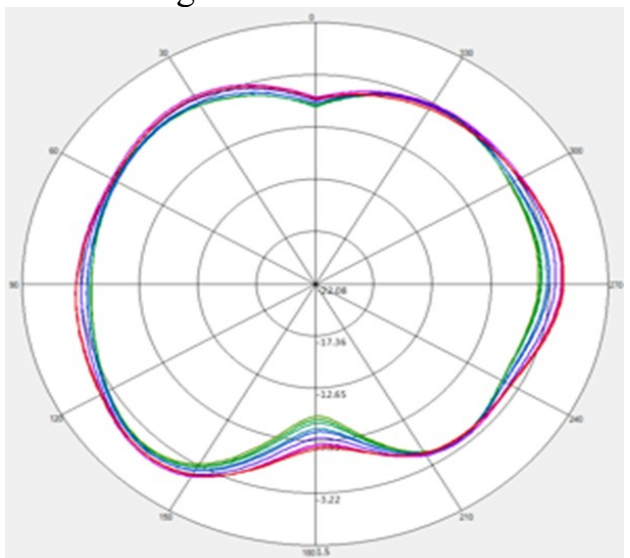
Theta=90.00deg



Phi=90.00deg

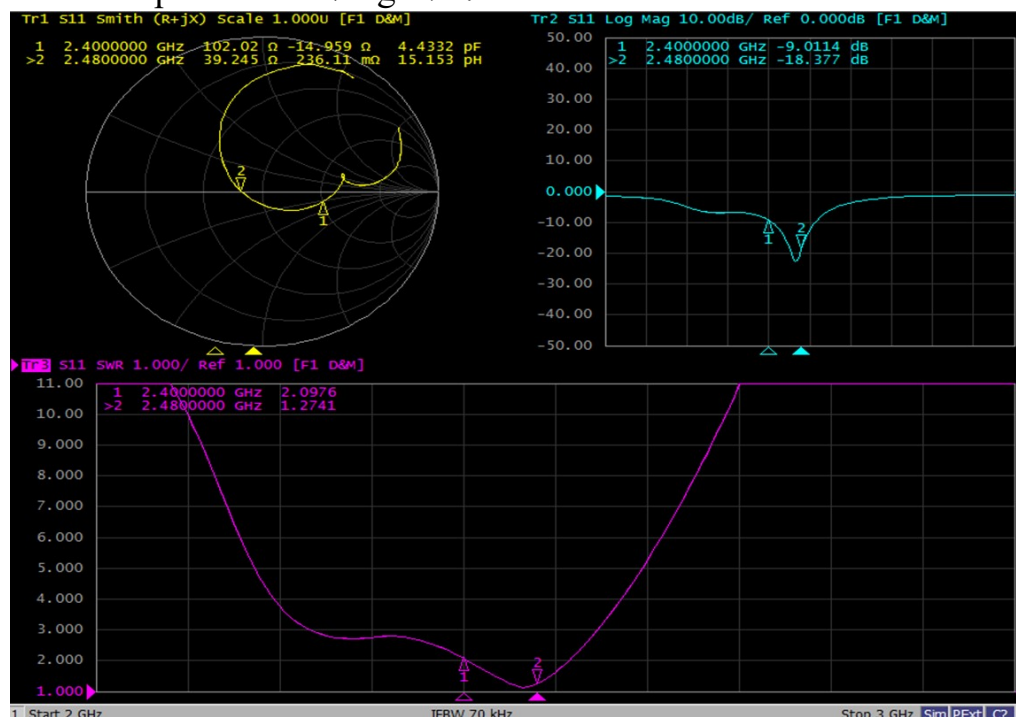


Phi=0.00deg





VSWR parameter (Right) :



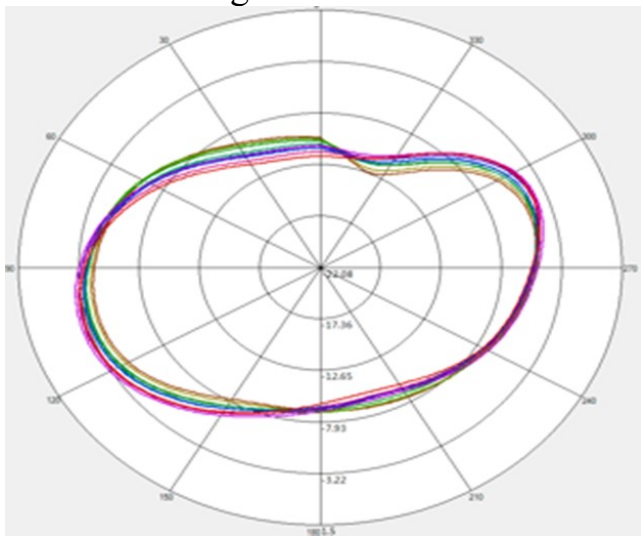
Efficiency:

R			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	25.6%	-5.9	-1.6
2410	26.2%	-5.8	-1.6
2420	26.6%	-5.7	-1.6
2430	26.1%	-5.8	-1.6
2440	25.2%	-6.0	-1.8
2450	25.7%	-5.9	-1.7
2460	24.9%	-6.0	-1.8
2470	26.2%	-5.8	-1.7
2480	26.8%	-5.7	-1.8
Average value	25.92%	-5.86	-1.68

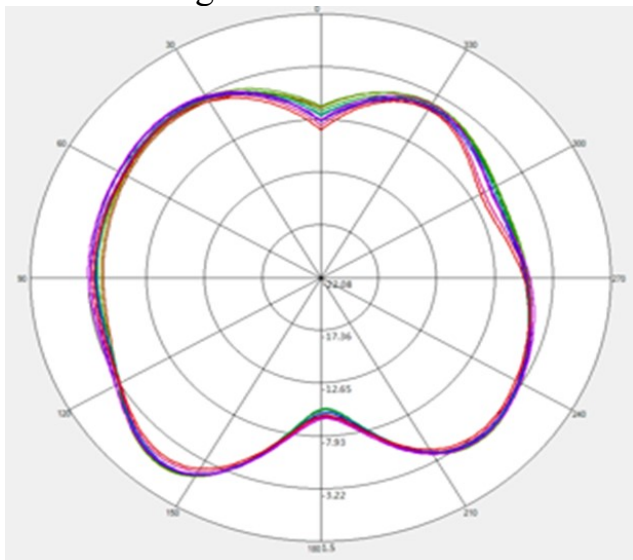


Antenna radiation pattern:

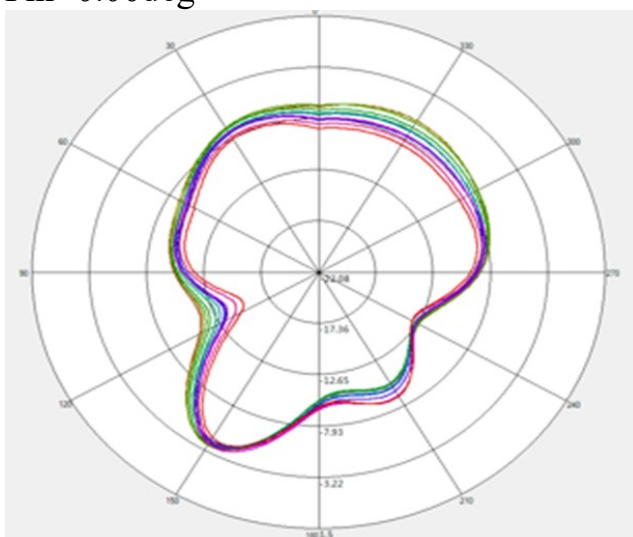
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg





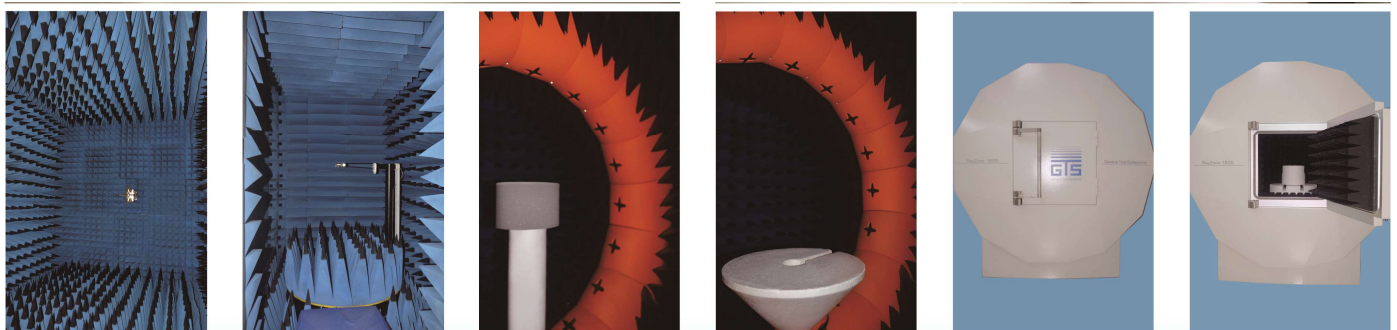
II: 3D Active test report of antenna

free space	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	8.0	-91.7
	CH 39	8.6	-92.7
	CH 78	8.5	-92.2

free space	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	7.8	-91.3
	CH 39	8.1	-92.9
	CH 78	7.0	-91.9

Headform	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	2.7	-85.9
	CH 39	2.7	-86.3
	CH 78	2.7	-87.1

Headform	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	1.2	-84.5
	CH 39	1.0	-85.5
	CH 78	0.8	-85.3



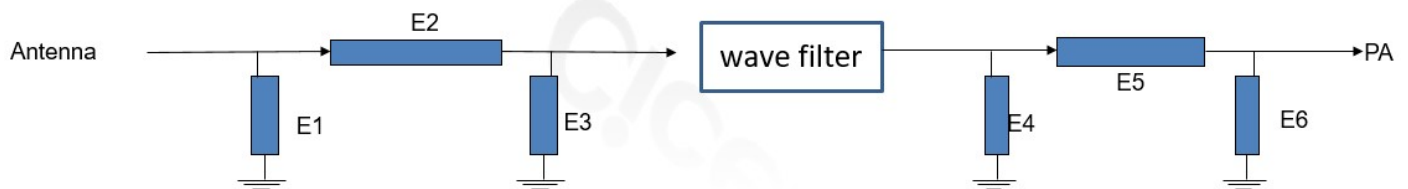
OTA Standard Chamber



III: Matching circuit

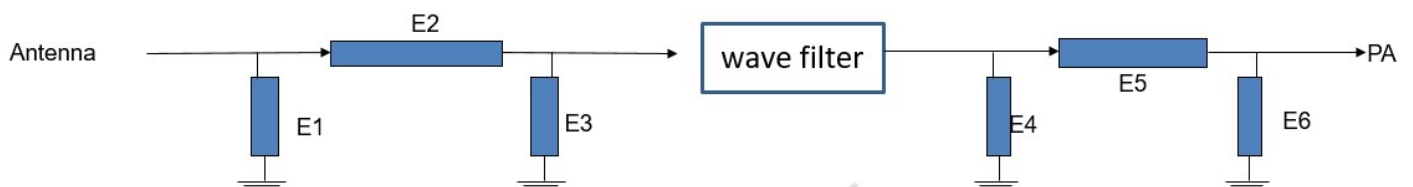
Left:

Element	Value
E1(0201)	3.0nH
E2(0201)	4.7nH
E3(0201)	N/A
E4(0201)	12nH
E5(0201)	10pF
E6(0201)	3.9nH



Right:

Element	Value
E1(0201)	3.3nH
E2(0201)	4.7nH
E3(0201)	N/A
E4(0201)	12nH
E5(0201)	10pF
E6(0201)	3.9nH

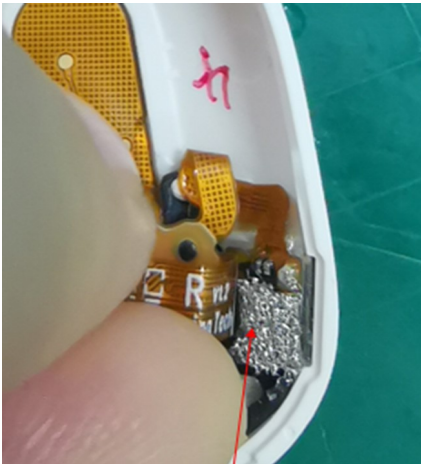




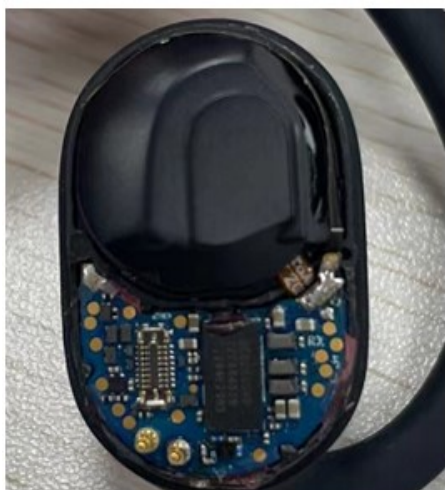
IV: Environmental treatment



1: The branches of FPC in the left ear are adjusted as shown in the figure above



2: The MIC cable of the left ear is as shown in the figure, and the conductive foam is retained.



3: The FPC branch of the right ear is as shown in the figure above, using the FPC branch of the first generation breaker project

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V: Structure file:

