



Antenna Part Specification

Project name:	BTE-689
Material category:	L-BT antenna、 R-BT antenna
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Version:	V1.0
Date:	2025.8.15



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Change record			
Compile / change date	Reason for change	Changed content	Version
2025.8.15	First edition	First edition	V1.0

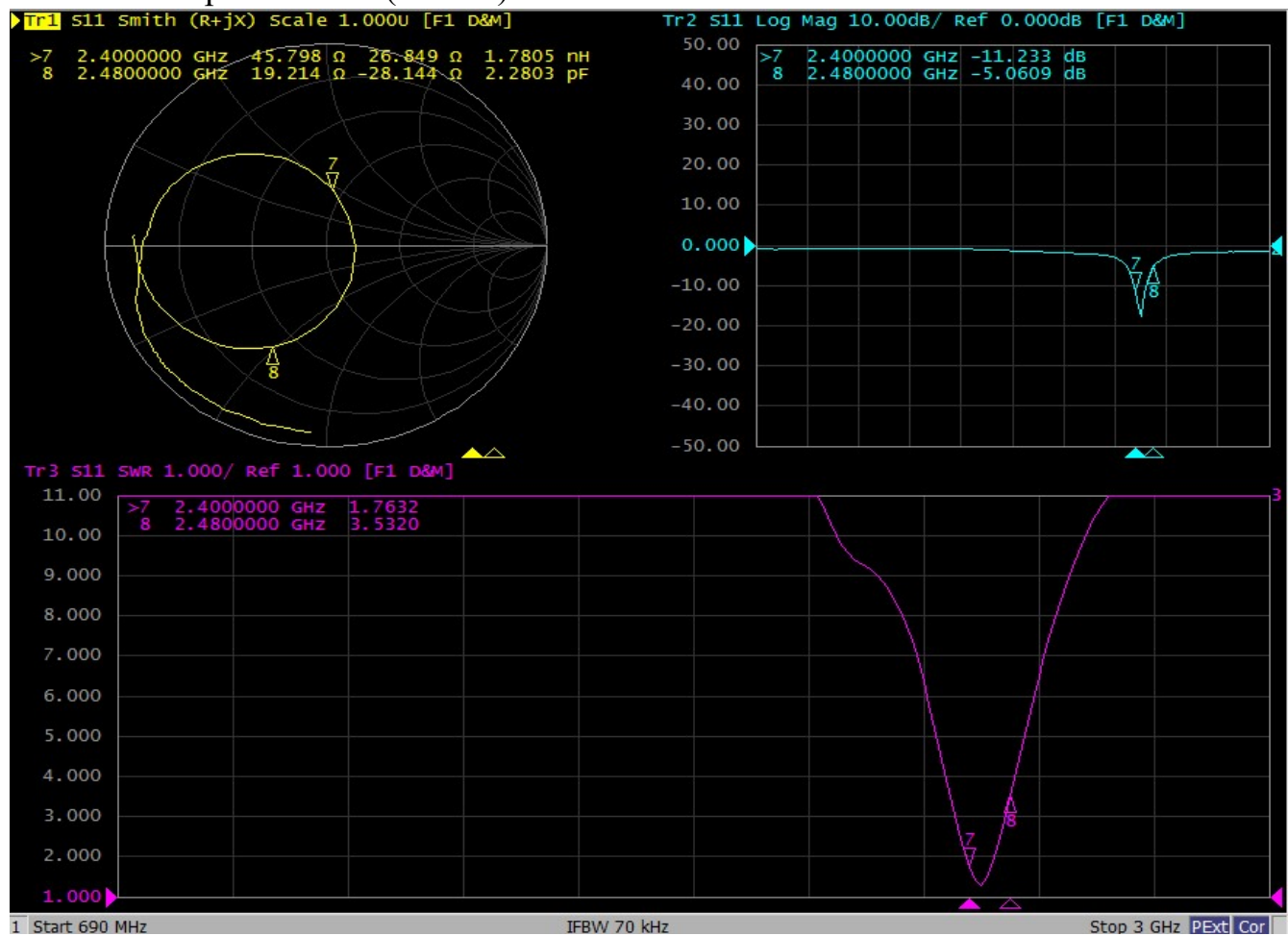


I: The report of passive data



Angilent E5071C

Antenna S11 parameter: (left ear)

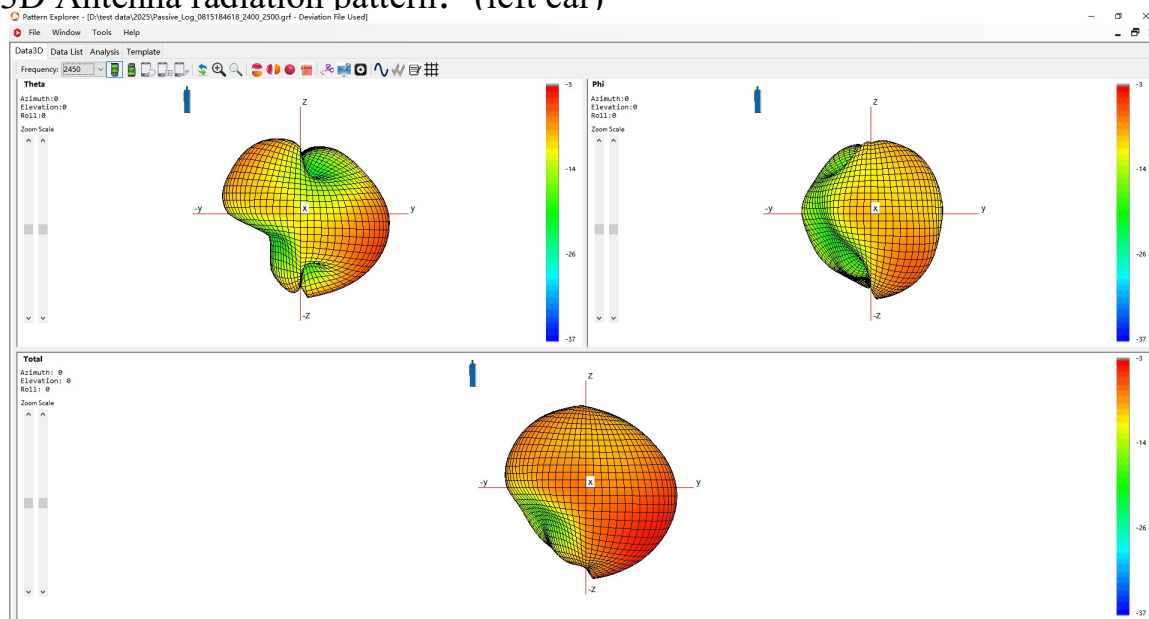




Antenna efficiency and gain: (left ear)

FS			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-4.5	-10.1	9.8
2410	-4.2	-9.6	10.9
2420	-4.1	-9.3	11.8
2430	-4.0	-9.2	12.1
2440	-3.7	-9.0	12.6
2450	-3.7	-8.9	12.9
2460	-3.9	-9.1	12.4
2470	-4.2	-9.5	11.3
2480	-4.6	-9.8	10.4
AVG	-4.10	-9.38	11.59

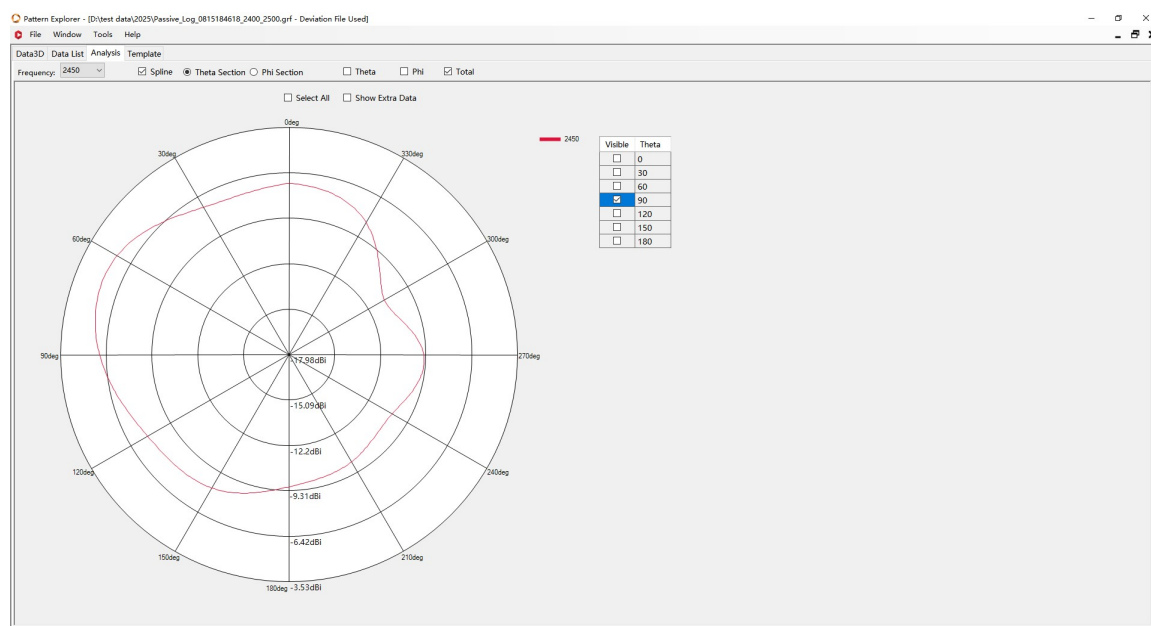
3D Antenna radiation pattern: (left ear)



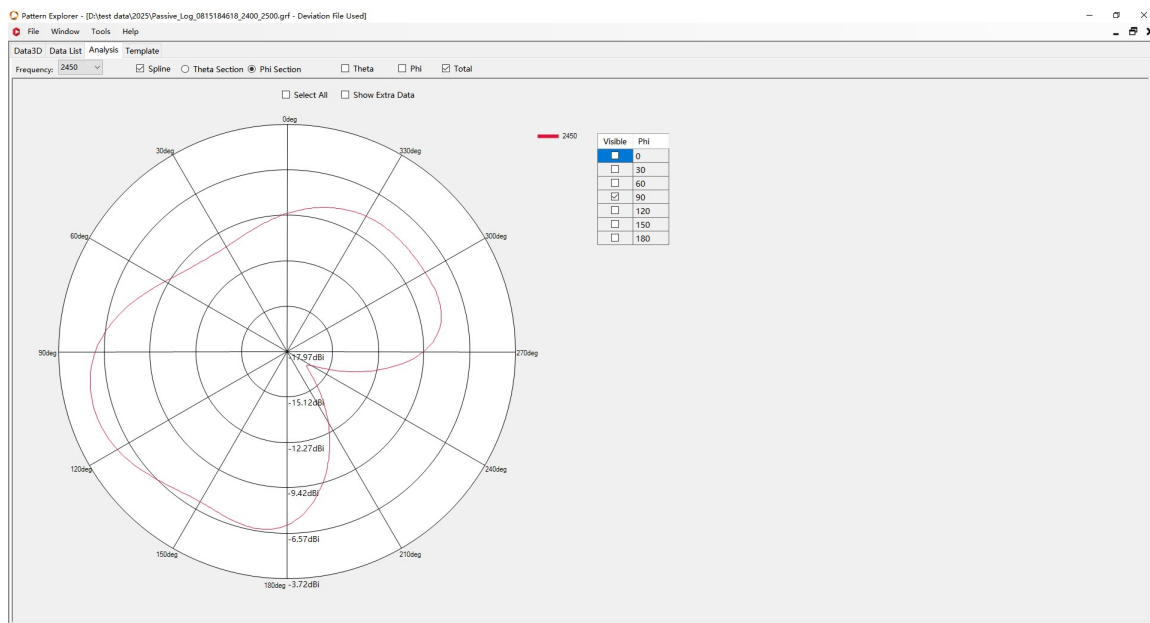


2D Antenna radiation pattern: (left ear)

Theta=90°

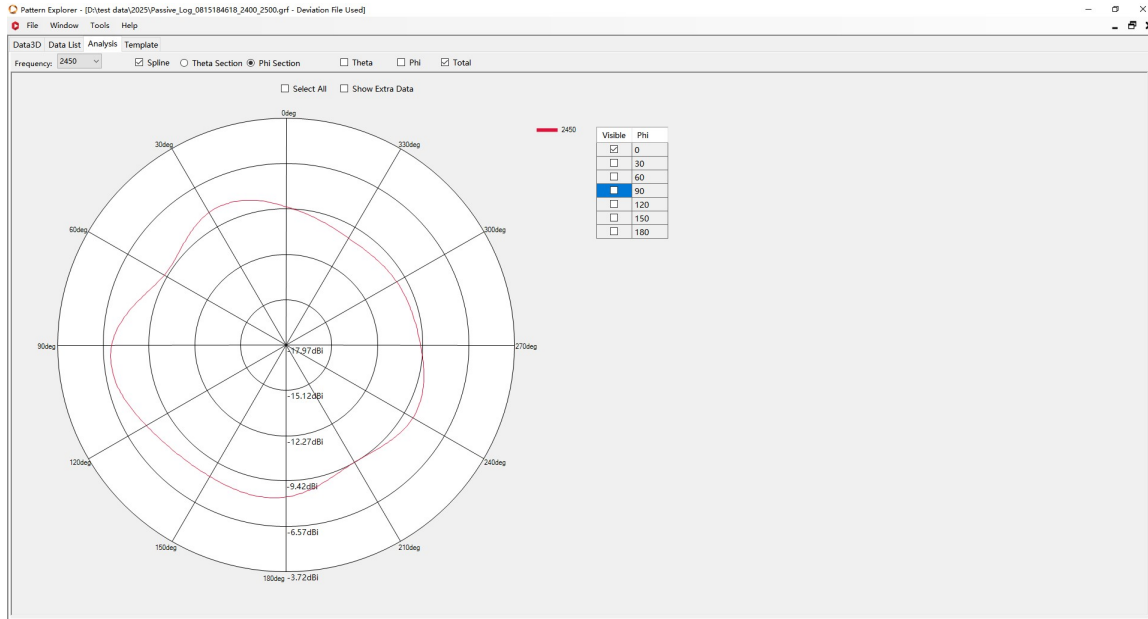


Phi=0°

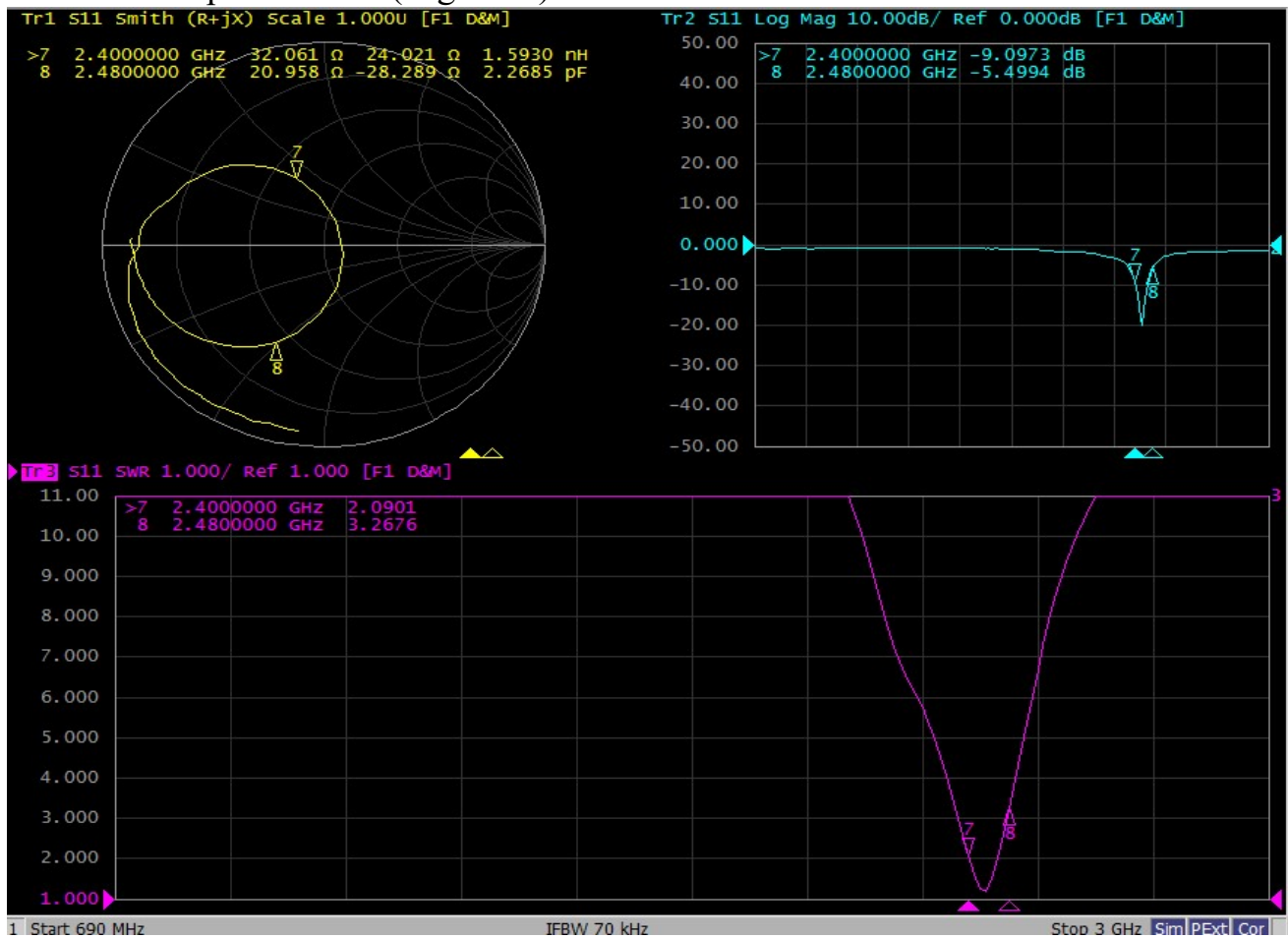




$\Phi=90^\circ$



Antenna S11 parameter: (Right ear)

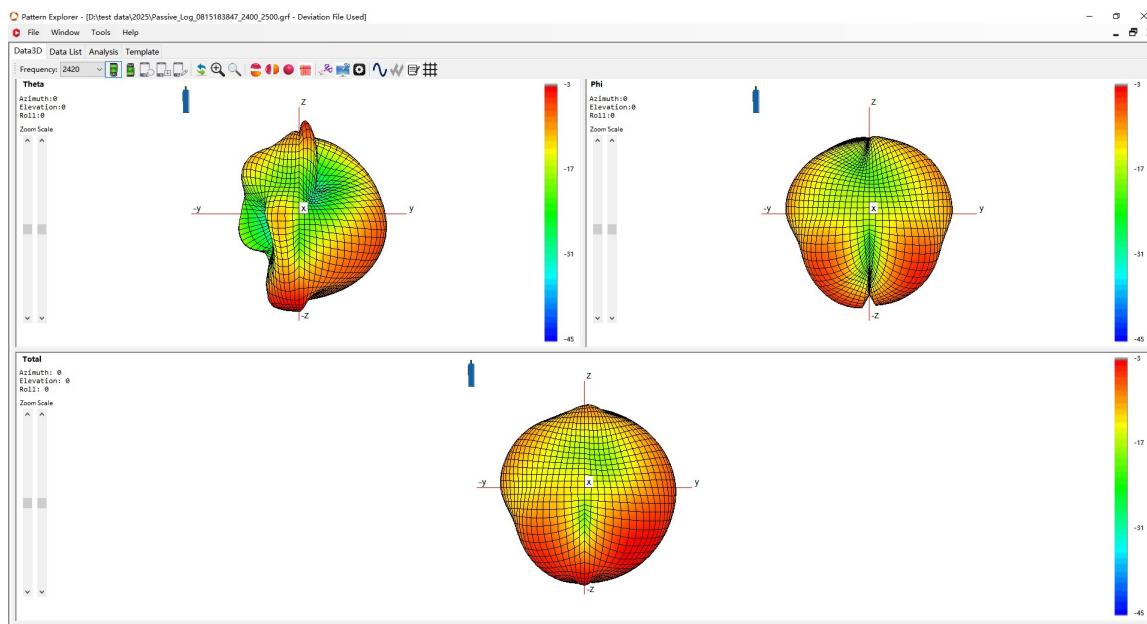




Antenna efficiency and gain: (Right ear)

FS			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-3.5	-9.1	12.2
2410	-3.4	-8.9	13.0
2420	-3.3	-8.6	13.7
2430	-3.4	-8.7	13.6
2440	-3.4	-8.6	13.9
2450	-3.5	-8.5	14.3
2460	-3.9	-8.6	13.8
2470	-4.6	-9.0	12.7
2480	-5.1	-9.3	11.7
AVG	-3.78	-8.80	13.21

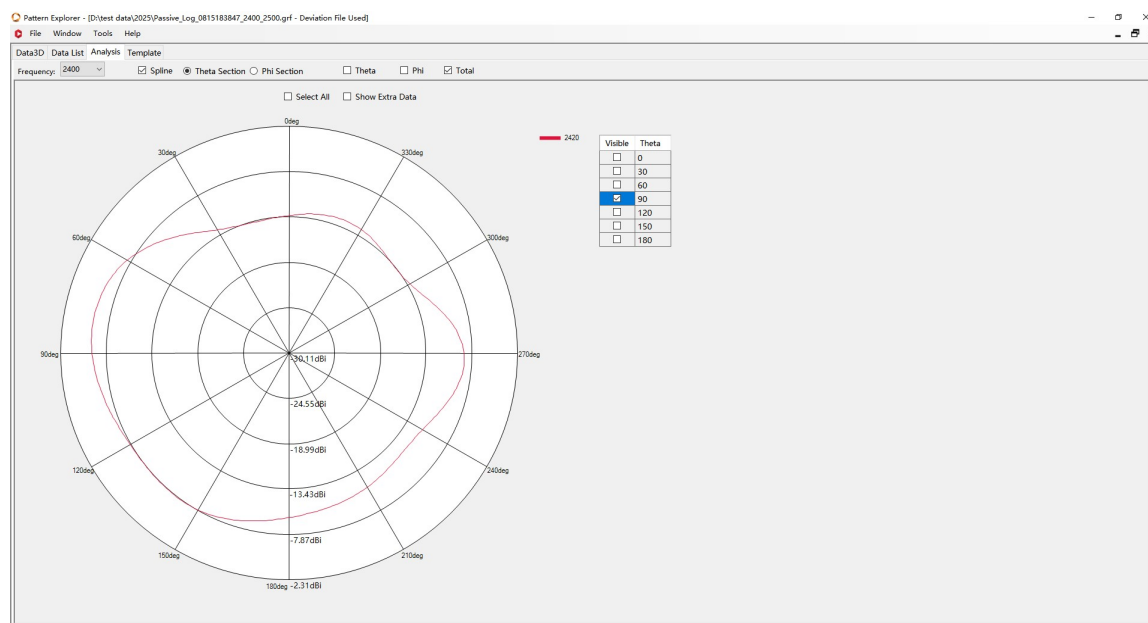
3D Antenna radiation pattern: (Right ear)



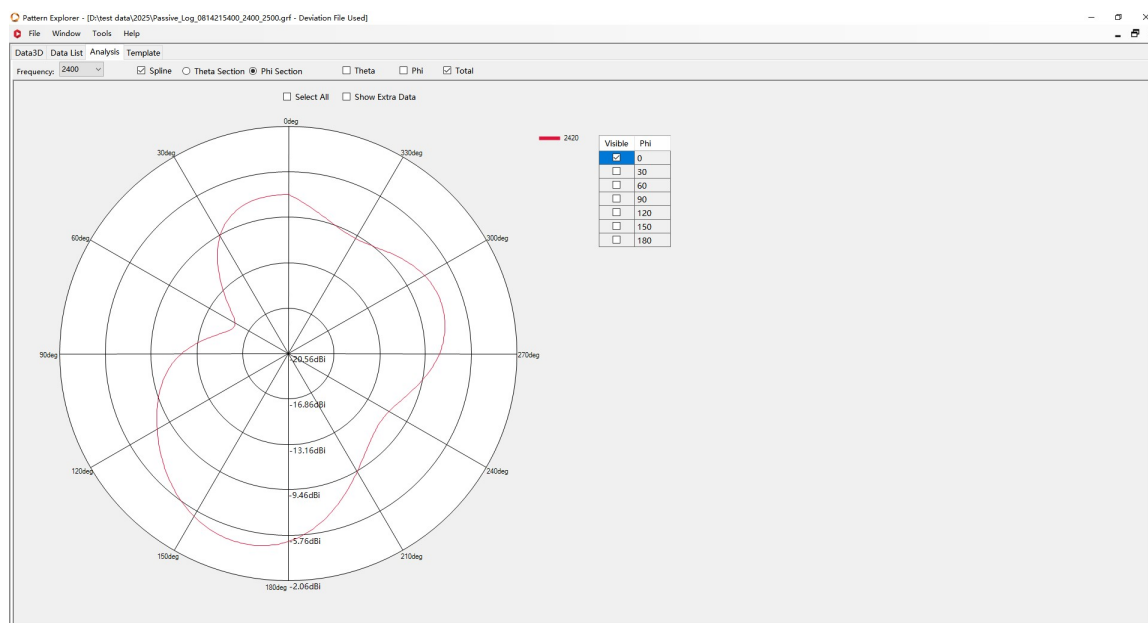


2D Antenna radiation pattern: (Right ear)

Theta=90°

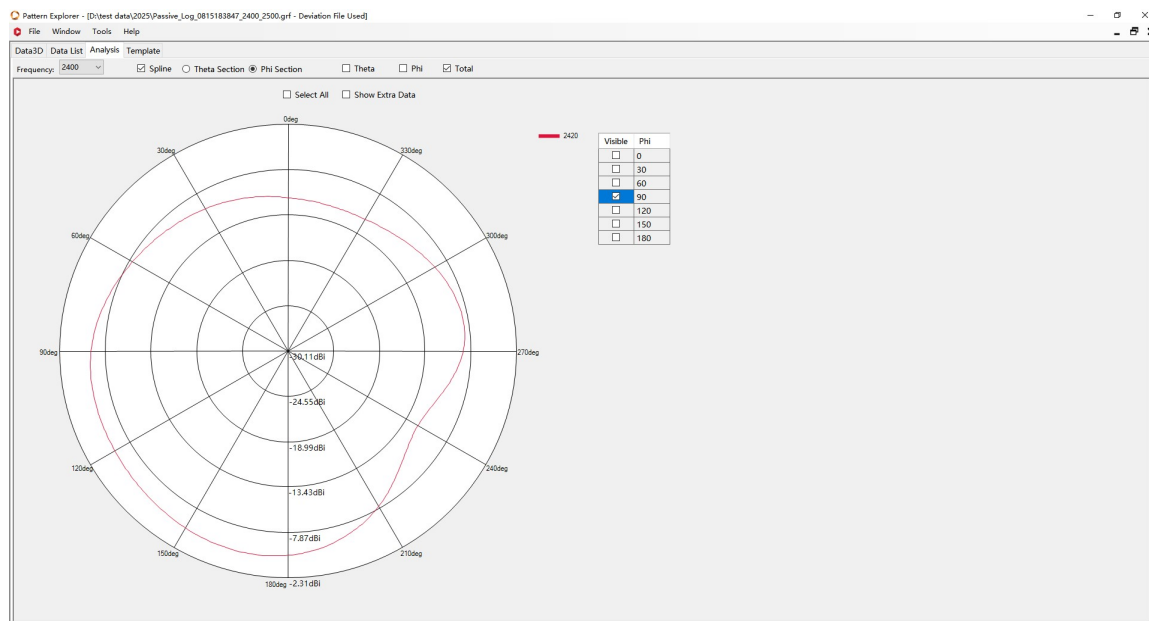


Phi=0°





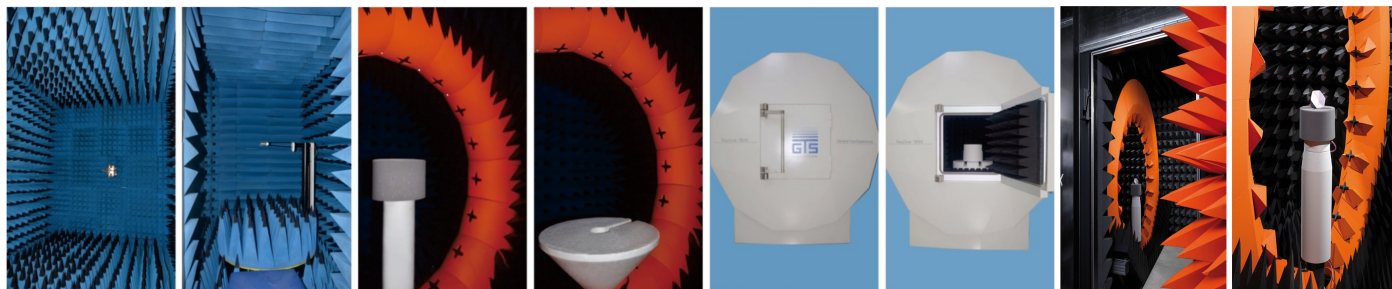
Phi=90°



II: 3D Active test report of antenna

		free		headform	
	Channel	TRP	TIS	TRP	TIS
L	CH 0	-4.3	-80.5	-1.9	-85.6
	CH 39	-4.1	-81.6	-0.6	-85.7
	CH 78	-2.8	-80.6	0.1	-86.0

		free		headform	
	Channel	TRP	TIS	TRP	TIS
R	CH 0	-2.5	-80.3	-0.4	-85.3
	CH 39	-2.1	-84.2	0.5	-85.6
	CH 78	-1.8	-82.7	0.3	-86.0



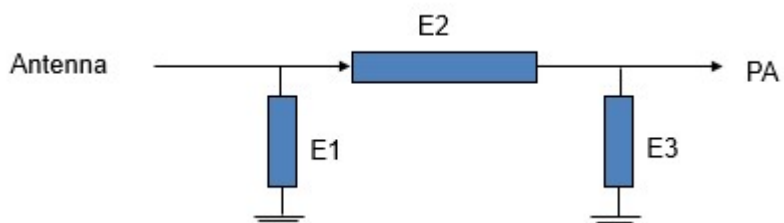
OTA Standard Chamber



III: Matching circuit

left ear and Right ear:

Element	Value
E1(0201)	2.7pF
E2(0201)	0Ω
E3(0201)	N/A





IV: Antenna structure diagram file

