



Antenna Part Specification

Customer Name	TianJian
Project name:	Between Pro2
Material category:	L-BT antenna&R-BT antenna
Specification Version:	V2.0
Date:	2025.02.21



Contents

Change record			
Compile / change date	Reason for change	Changed content	Version
2025.2.21	First edition	First edition	V1.0
2025.05.19	Antenna optimization	Antenna optimization	V2.0

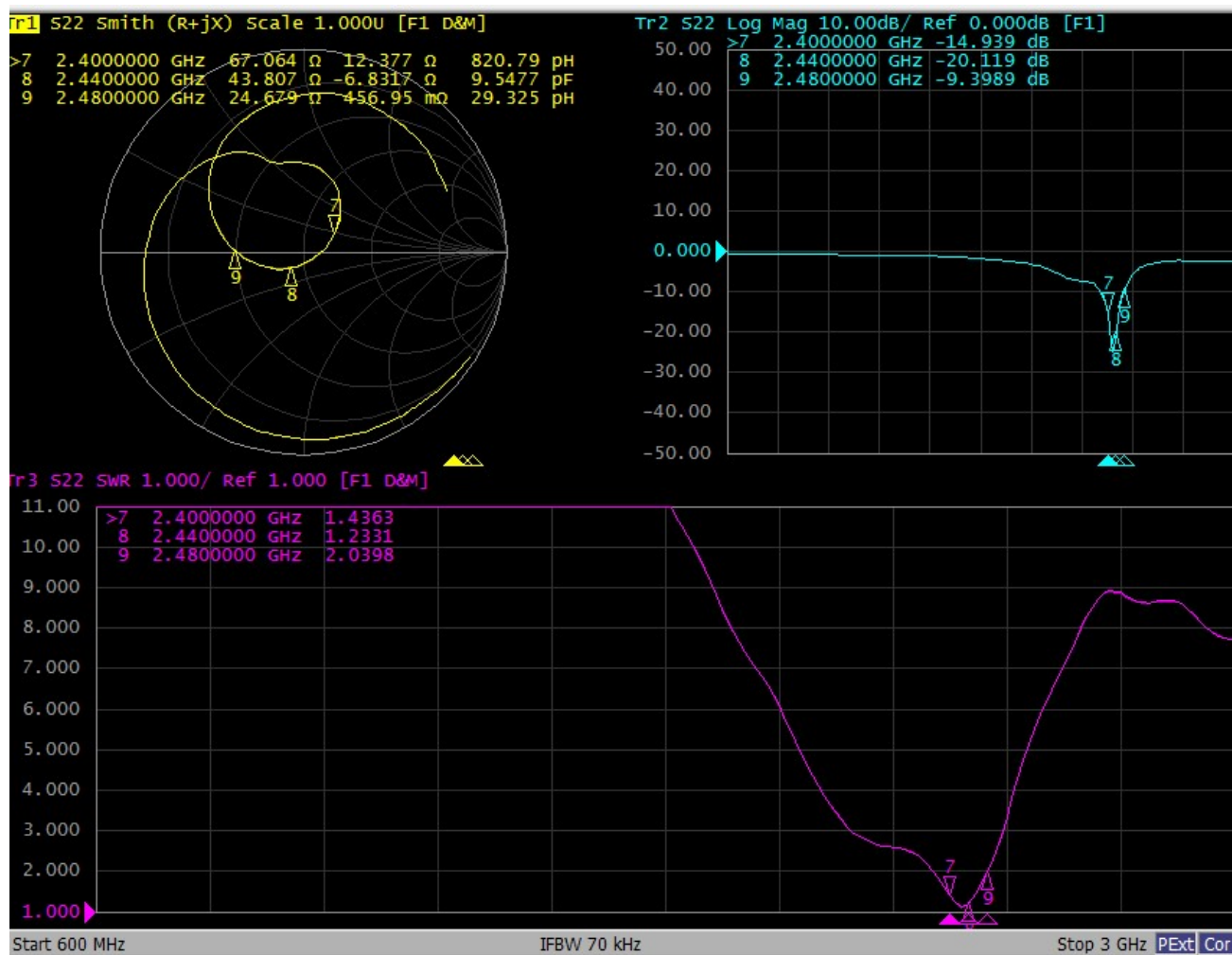


I: The report of passive data



Angilent E5071C

Left ear antenna S parameters:

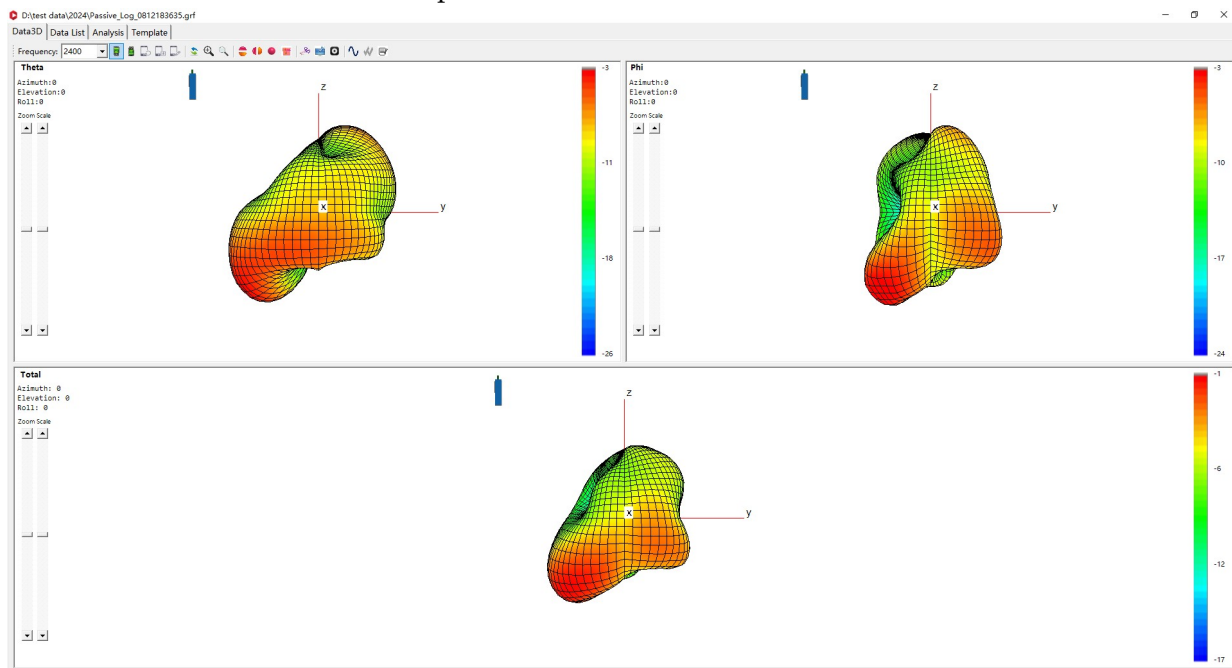




Passive efficiency and gain of left ear BT antenna:

L			
Frequency(MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-2.5	-6.0	25.1%
2410	-2.3	-5.8	26.1%
2420	-2.2	-5.7	26.9%
2430	-2.3	-5.8	26.6%
2440	-2.5	-5.9	25.7%
2450	-2.4	-5.9	25.9%
2460	-2.5	-6.0	24.9%
2470	-2.3	-5.9	25.5%
2480	-2.3	-5.9	25.5%
Average value	-2.4	-5.9	25.8%

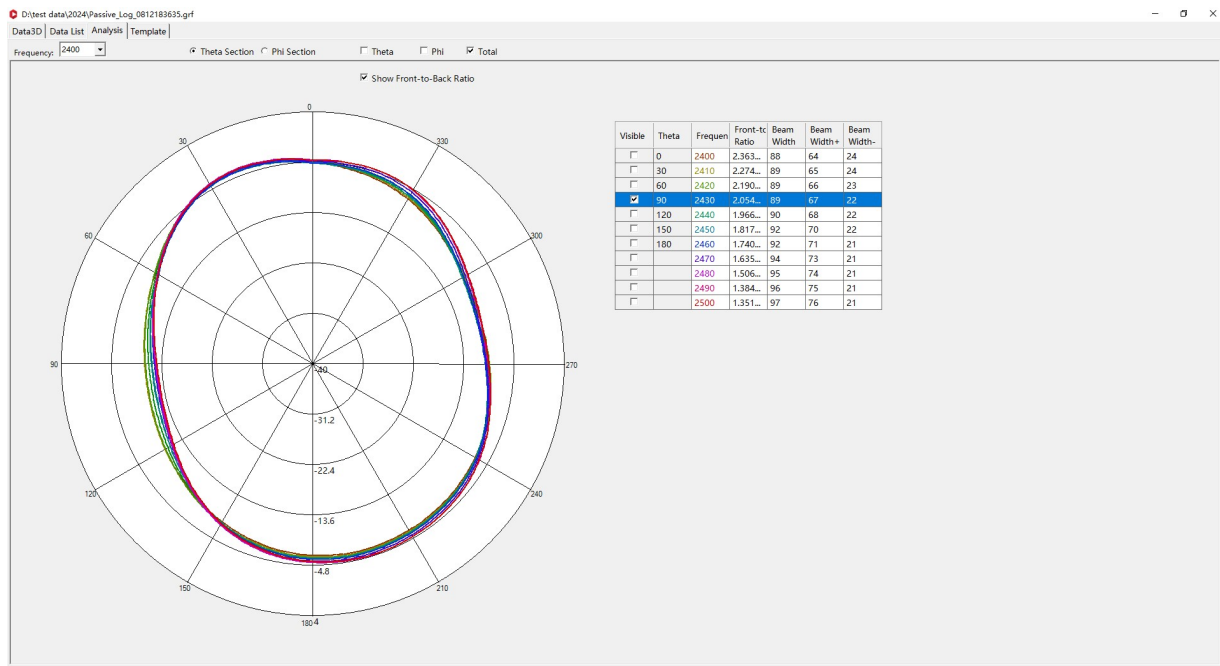
Passive 3D directional pattern of left ear antenna



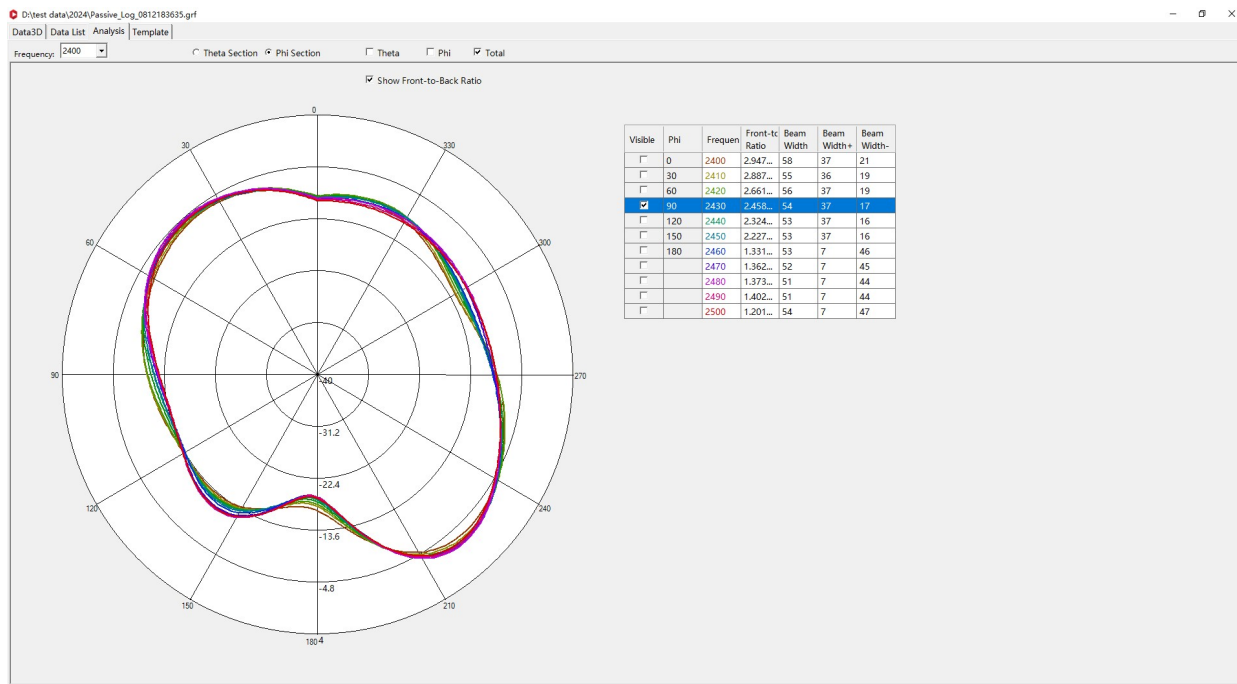


Passive 2D directional pattern of left ear antenna

Theta=90°



Phi=90°





Phi=0°

D:\test data\2024\Passive_Log_0812189535.grf

Data3D | Data List | Analysis | Template

Frequency: 2400

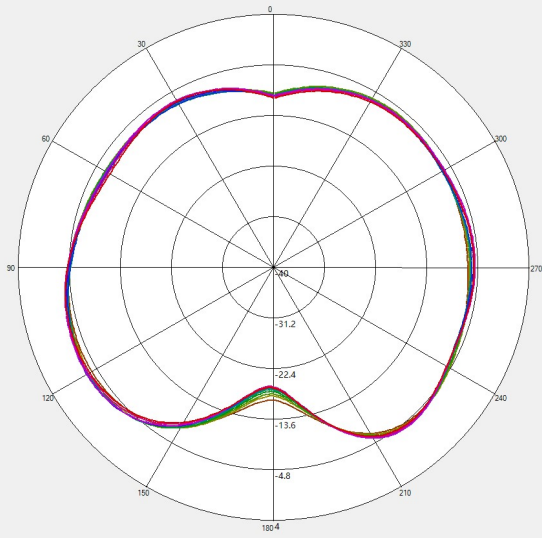
Theta Section ☒ Phi Section

Theta

Phi

Total

☒ Show Front-to-Back Ratio



Visible	Phi	Frequen	Front-to-Back Ratio	Beam Width	Beam Width+	Beam Width-
☒	0	2400	2.499...	97	71	26
☐	30	2410	2.867...	83	57	26
☐	60	2420	3.094...	79	53	26
☐	90	2430	3.300...	75	50	25
☐	120	2440	3.464...	71	46	25
☐	150	2450	3.584...	68	44	24
☐	180	2460	3.554...	66	42	24
☐		2470	3.384...	67	43	24
☐		2480	3.194...	68	45	23
☐		2490	3.097...	70	47	23
☐		2500	2.925...	70	47	23



IV: Structure file

