



Antenna Part Specification

Customer Name	TianJian
Project name:	Between Pro2
Material category:	L-BT antenna&R-BT antenna
Specification Version:	V2.0
Date:	2025.05.19



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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



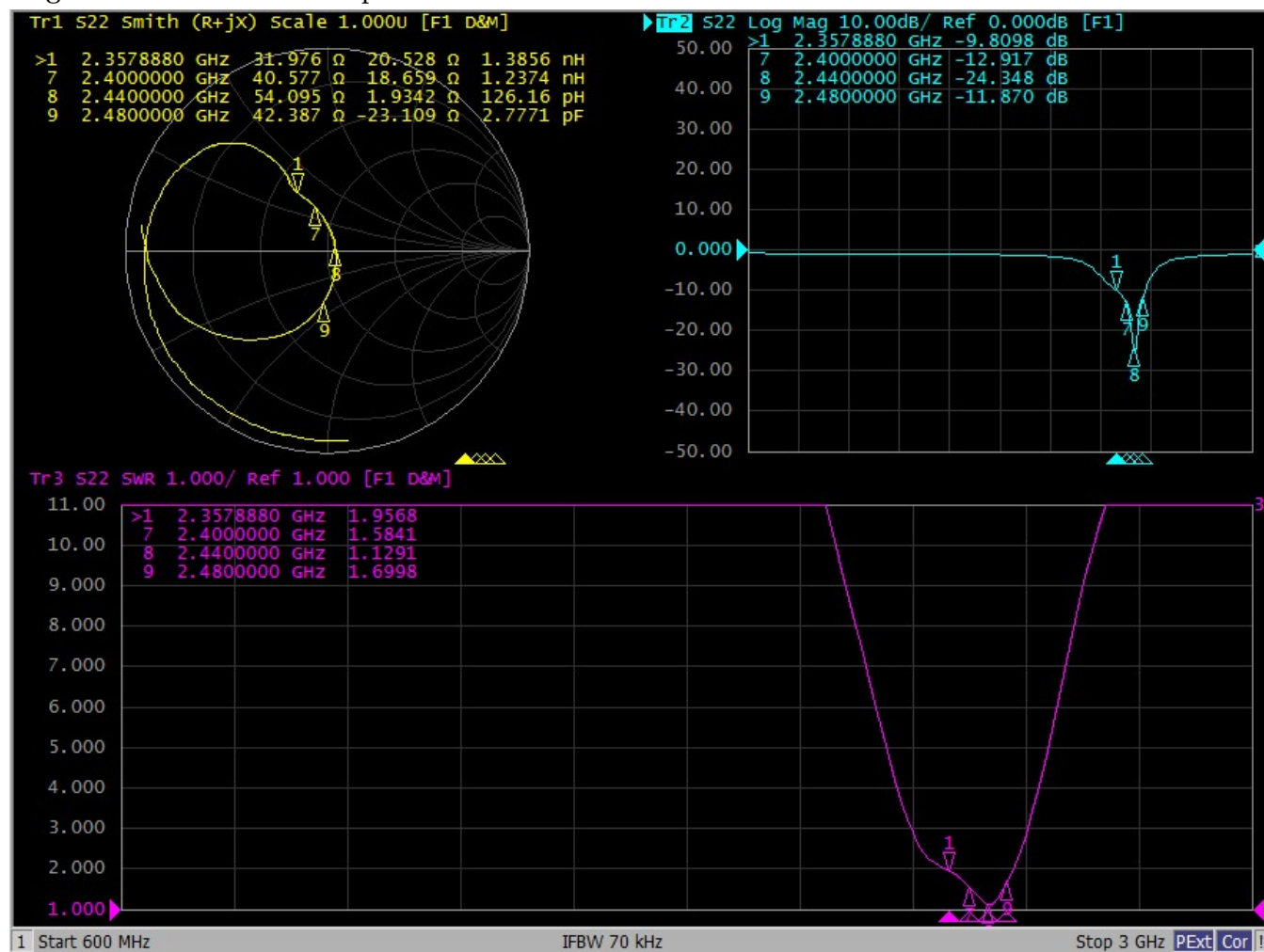
I: The report of passive data



Angilent E5071C



Right ear antenna S parameter

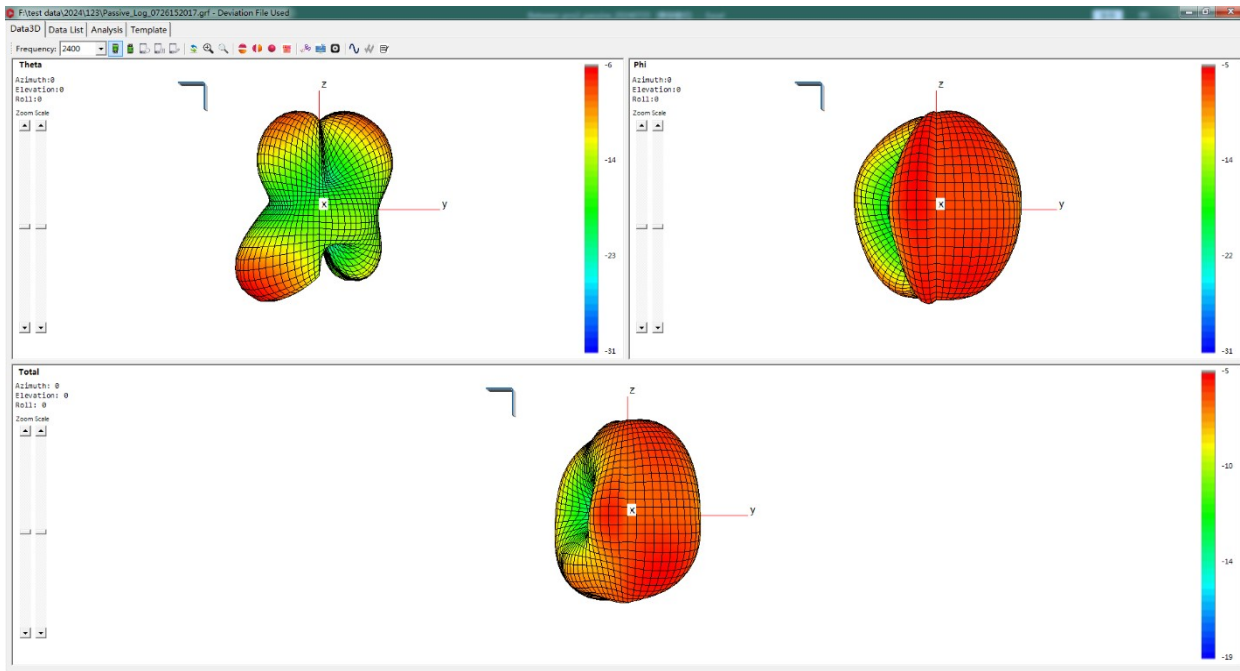


Passive efficiency and gain of right ear BT antenna

R			
Frequency(MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-0.6	-6.5	22.3%
2410	-0.5	-6.6	21.9%
2420	-0.5	-6.7	21.6%
2430	-0.3	-6.4	22.8%
2440	-0.2	-6.4	23.0%
2450	0.4	-5.9	25.5%
2460	0.9	-5.7	27.2%
2470	0.6	-5.9	25.9%
2480	0.6	-5.9	25.8%
Average value	0.0	-6.2	24.0%

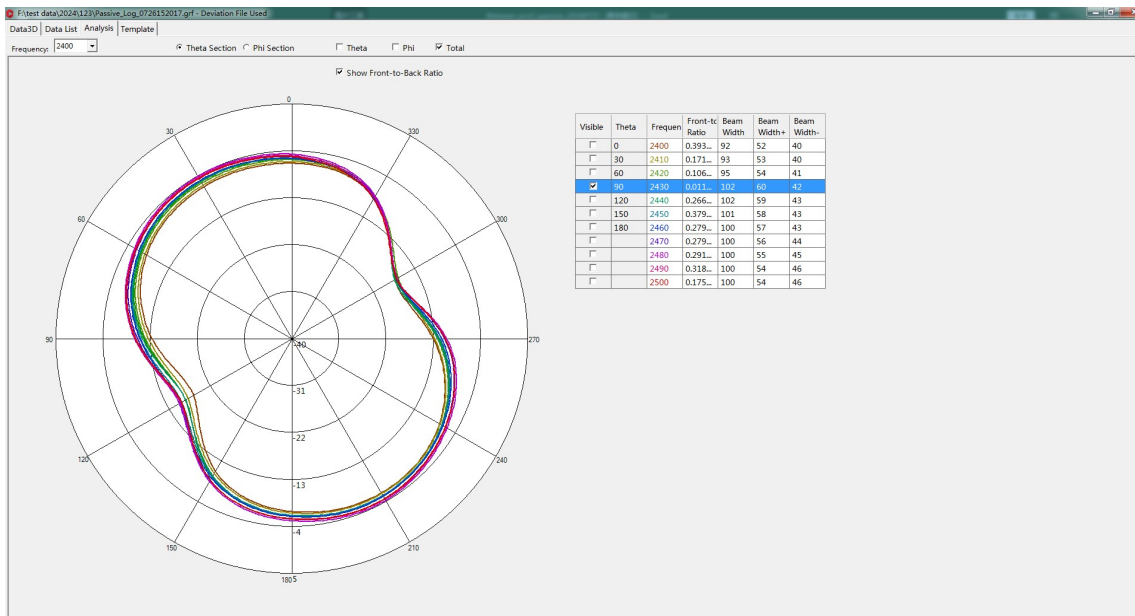


Passive 3D directional diagram of right ear antenna



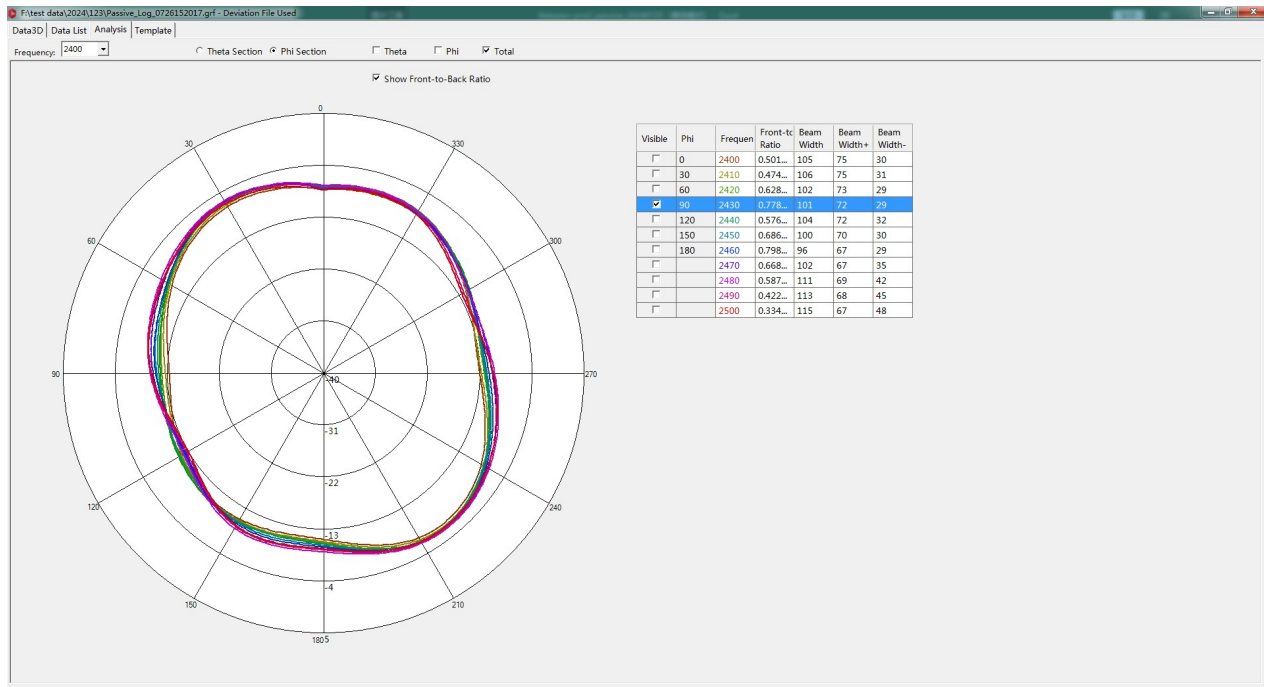
Passive 2D directional pattern of right ear antenna

Theta=90°

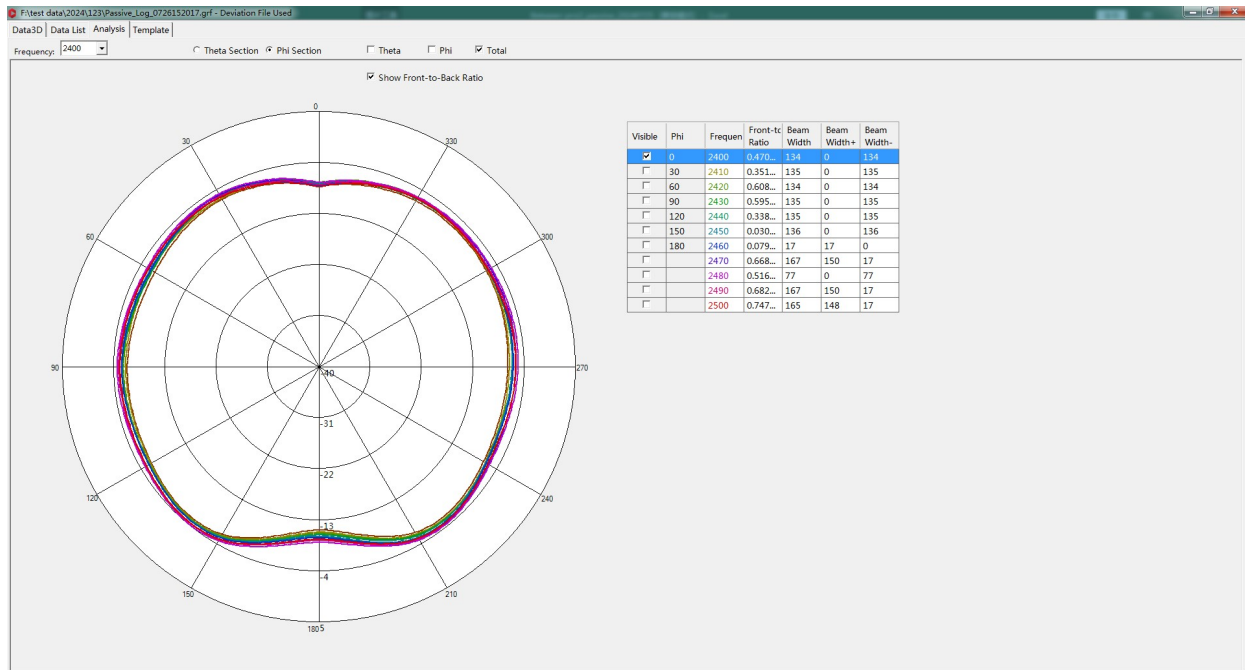




Phi=90°



Phi=0°





II: 3D Active test report of antenna

1#	Channel	TRP (dBm)	TIS (dBm)
L Free	CH 0	4.3	-89.4
	CH 39	4.5	-90.3
	CH 78	3.4	-89.2
1#	Channel	TRP (dBm)	TIS (dBm)
L Headform	CH 0	-0.4	-85.0
	CH 39	-0.2	-85.4
	CH 78	-0.6	-84.8

1#	Channel	TRP (dBm)	TIS (dBm)
R Free	CH 0	4.5	-90.6
	CH 39	5.8	-90.1
	CH 78	4.4	-90.4
	Channel	TRP (dBm)	TIS (dBm)
R Headform	CH 0	-0.7	-84.8
	CH 39	-0.1	-85.9
	CH 78	0.0	-85.8



OTA Standard Chamber

