



Antenna Specification

Manufacture:	Shenzhen Cicent Communication Technology Co., Ltd.
Address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Model:	CE-2199B-ANT-L
Ant. Type:	PIFA Antenna
Version:	V1.0
Date:	2024. 04. 19

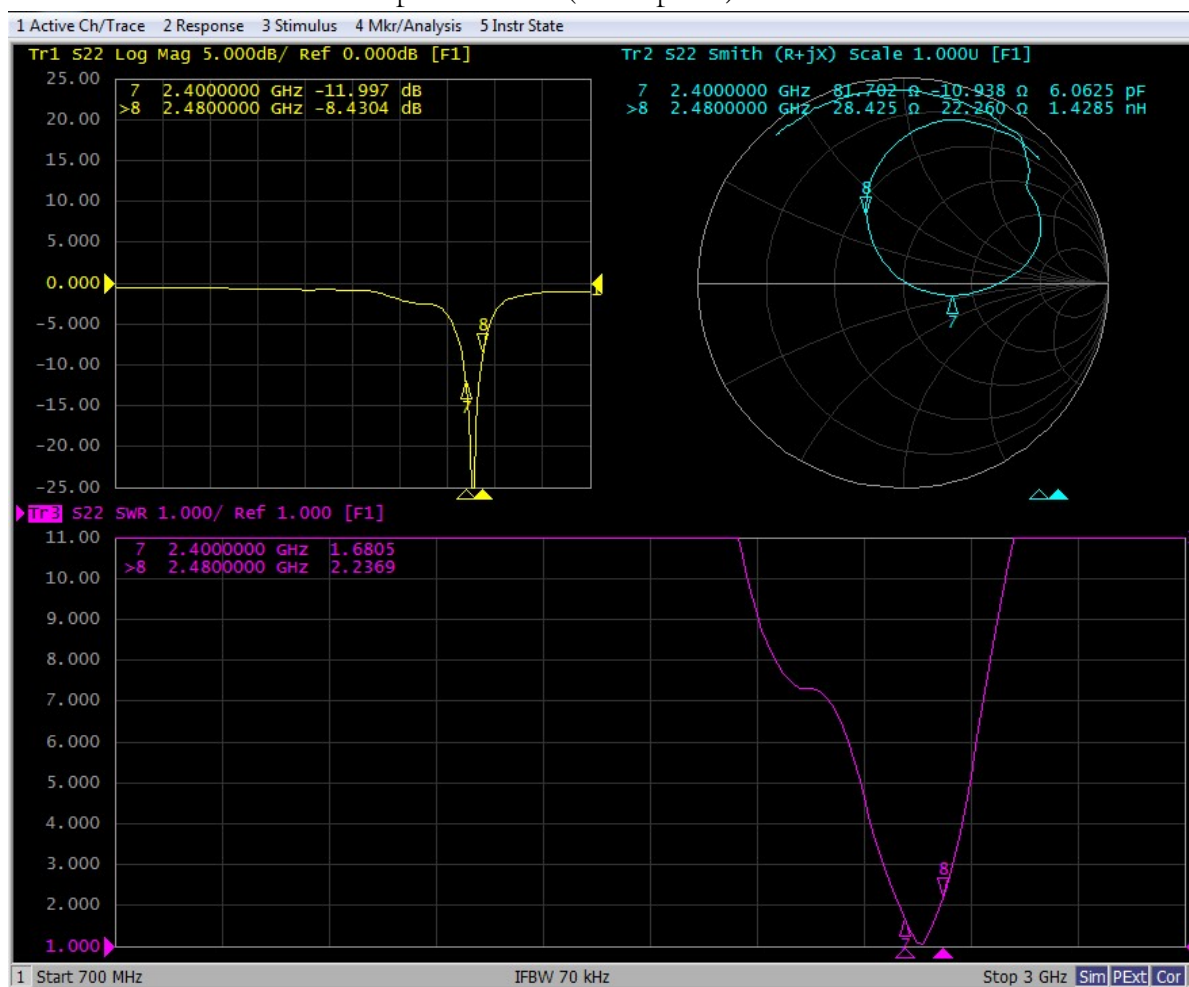


一: Passive test report



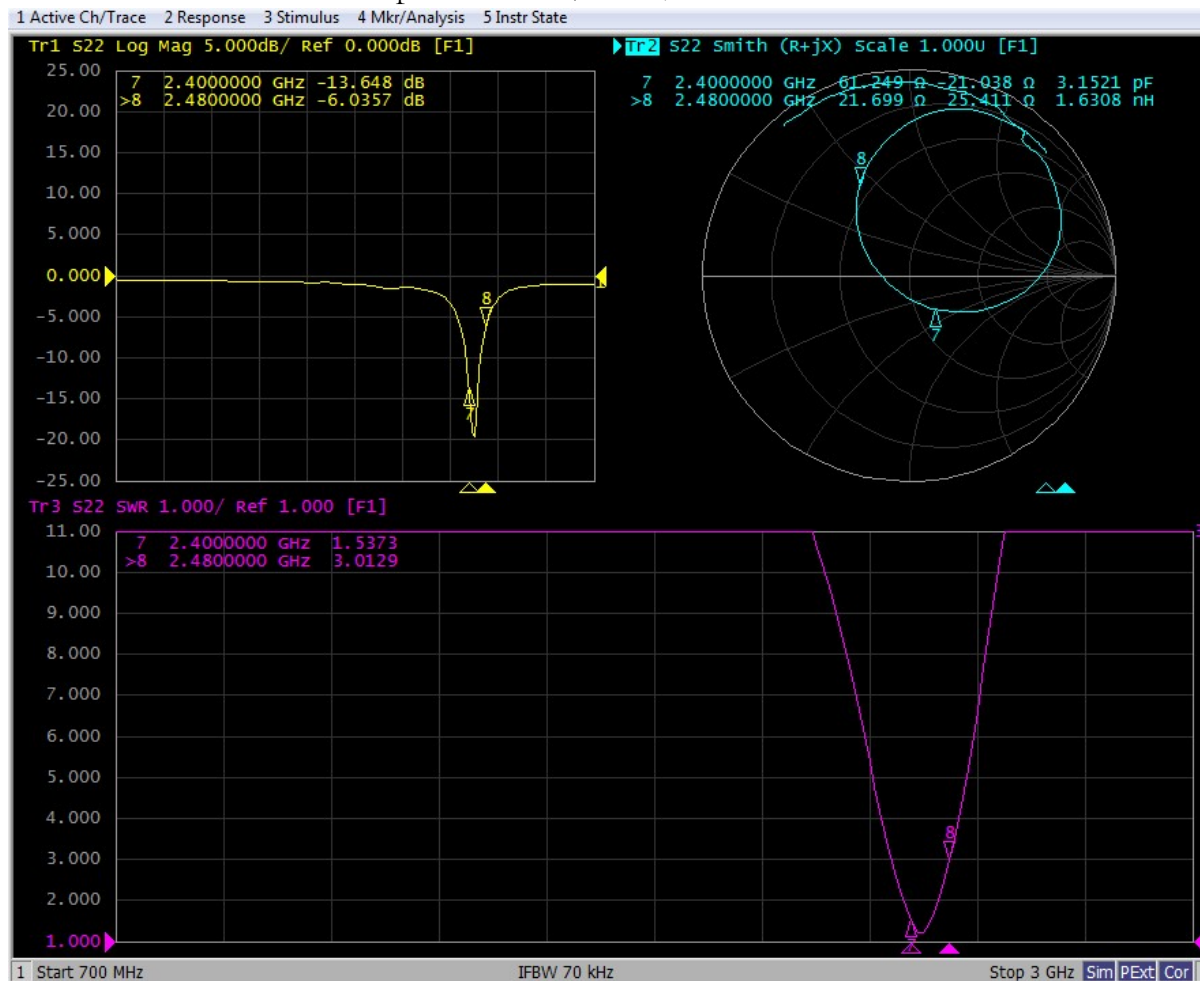
Angilent E5071C

Left Earbuds BT Ant. S11 parameter (Freespace)





Left Earbuds BT Ant. S11 parameter (Head)



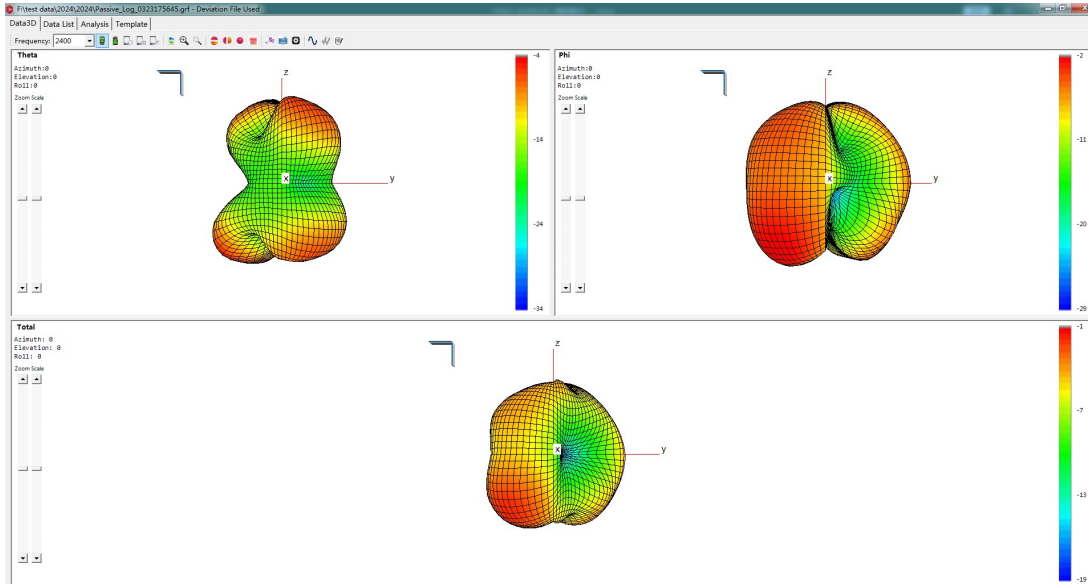
Left Earbuds BT Ant. efficiency and gain :

左耳自由空间			
Frequency(MHz)	Efficiency (%)	Efficiency(dB)	Gain(dBi)
2400	25.8	-5.9	-2.2
2410	26.4	-5.8	-2.2
2420	26.6	-5.7	-2.3
2430	25.7	-5.9	-2.6
2440	25.8	-5.9	-3.0
2450	26.4	-5.8	-3.2
2460	26.6	-5.7	-3.6
2470	25.7	-5.9	-3.6
2480	24.3	-6.2	-3.8
Ave.	25.9	-5.9	-2.9

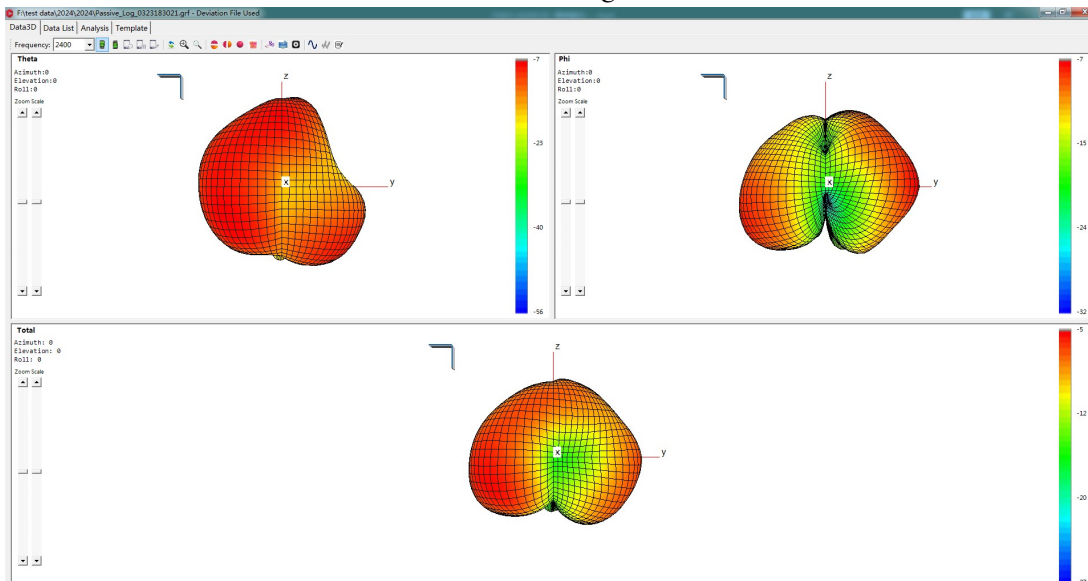
左耳头模			
Frequency(MHz)	Efficiency (%)	Efficiency(dB)	Gain(dBi)
2400	9.0	-10.5	-5.9
2410	8.9	-10.5	-5.8
2420	8.8	-10.6	-5.9
2430	8.2	-10.9	-6.1
2440	7.6	-11.2	-6.3
2450	7.4	-11.3	-6.3
2460	6.8	-11.7	-6.5
2470	6.9	-11.6	-6.4
2480	6.6	-11.8	-6.6
Ave.	7.8	-11.1	-6.2



Left Earbuds BT Ant. 3D directional diagram (freespace) :

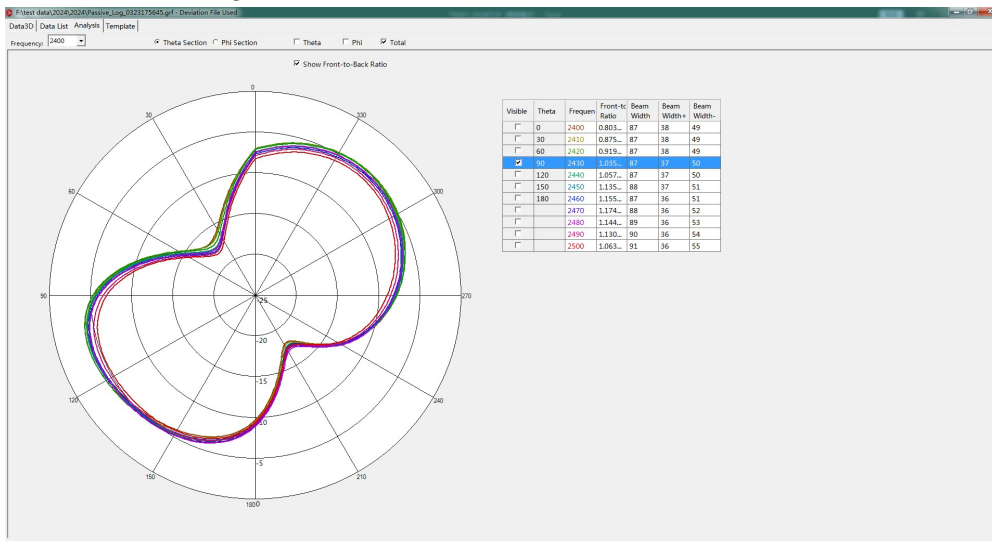


Left Earbuds BT Ant. 3D directional diagram (head) :

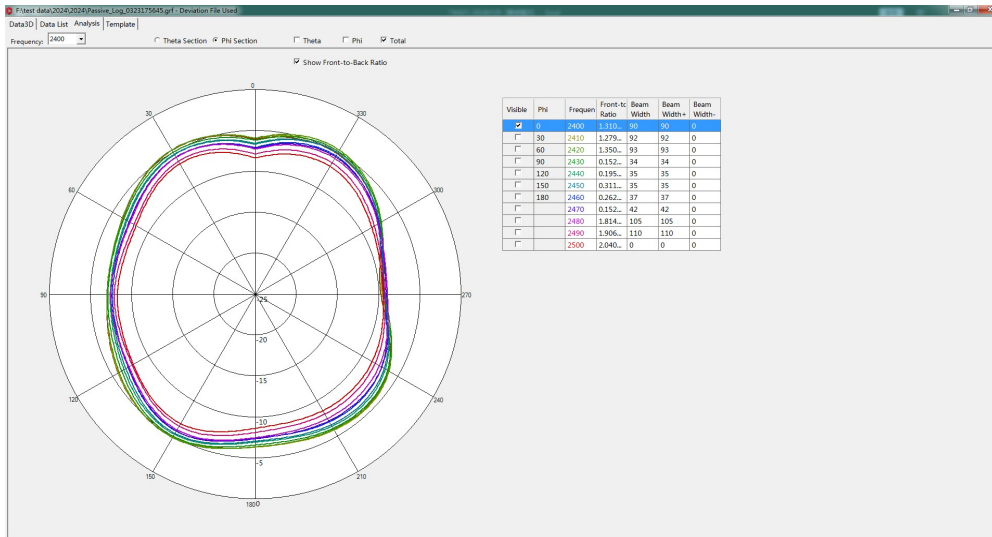




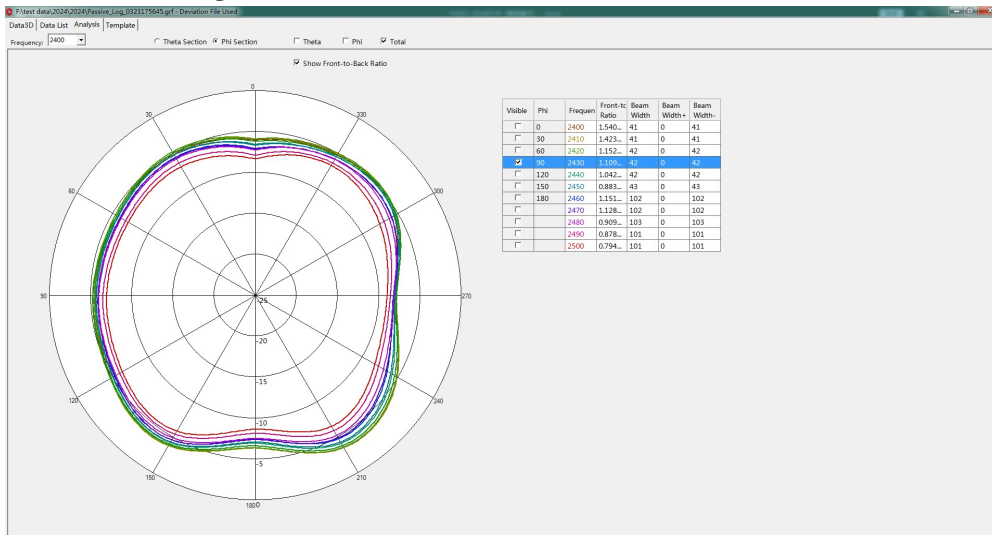
Left Earbuds BT Ant. 2D directional diagram (freespace) :
Theta=90.00deg



Phi=0.00deg

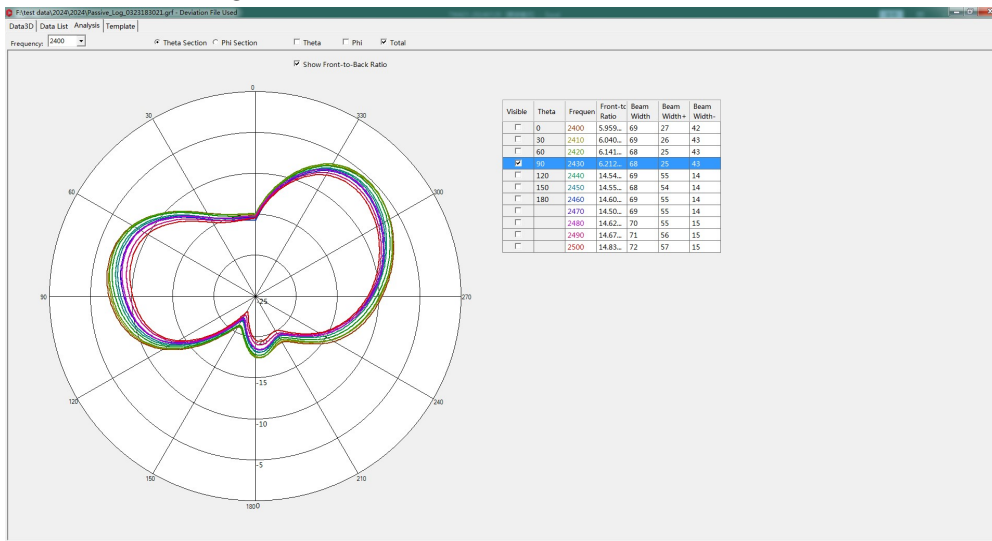


Phi=90.00deg

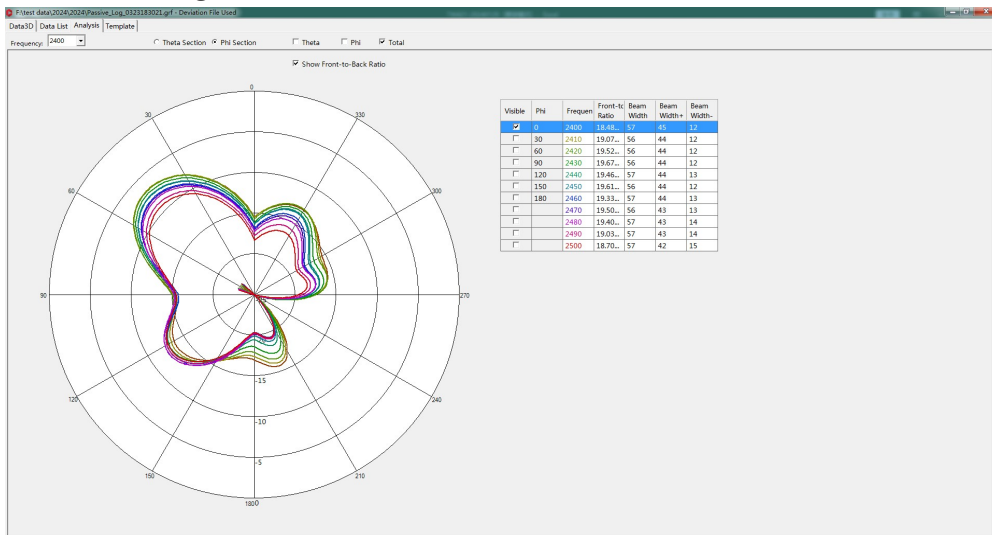




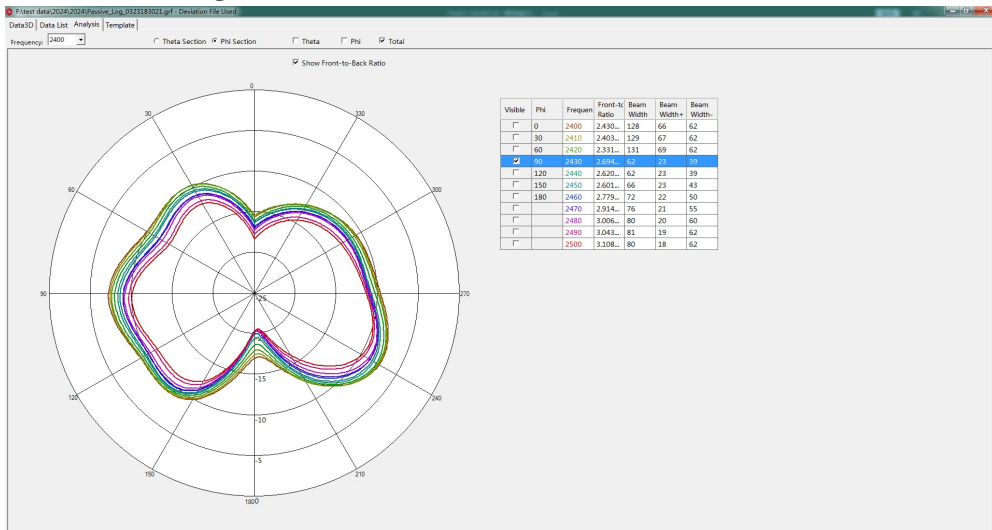
Left Earbuds BT Ant. 2D directional diagram (freespace) :
Theta=90.00deg



Phi=0.00deg



Phi=90.00deg





二：BT Ant. 3D OTA Data

L	Channel	TRP (dBm)	TIS (dBm)
Freespace	CH 0	2.9	-86.7
	CH 39	3.9	-89.7
	CH 78	4.3	-90.2

L	Channel	TRP (dBm)	TIS (dBm)
Head	CH 0	-1.9	-82.6
	CH 39	-1.7	-84.6
	CH 78	-2.1	-84.2



OTA Standard Chamber



五：结构图档

