



Antenna Part Specification

Customer name:	Cosonic Intelligent Technologies Co., Ltd.
Project name:	A6611C
Material category:	R-LDS antenna
Antenna type:	Monopole
Version:	V1.0
Date:	2024.11.02
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer Address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.11.02	First edition	First edition	V1.0

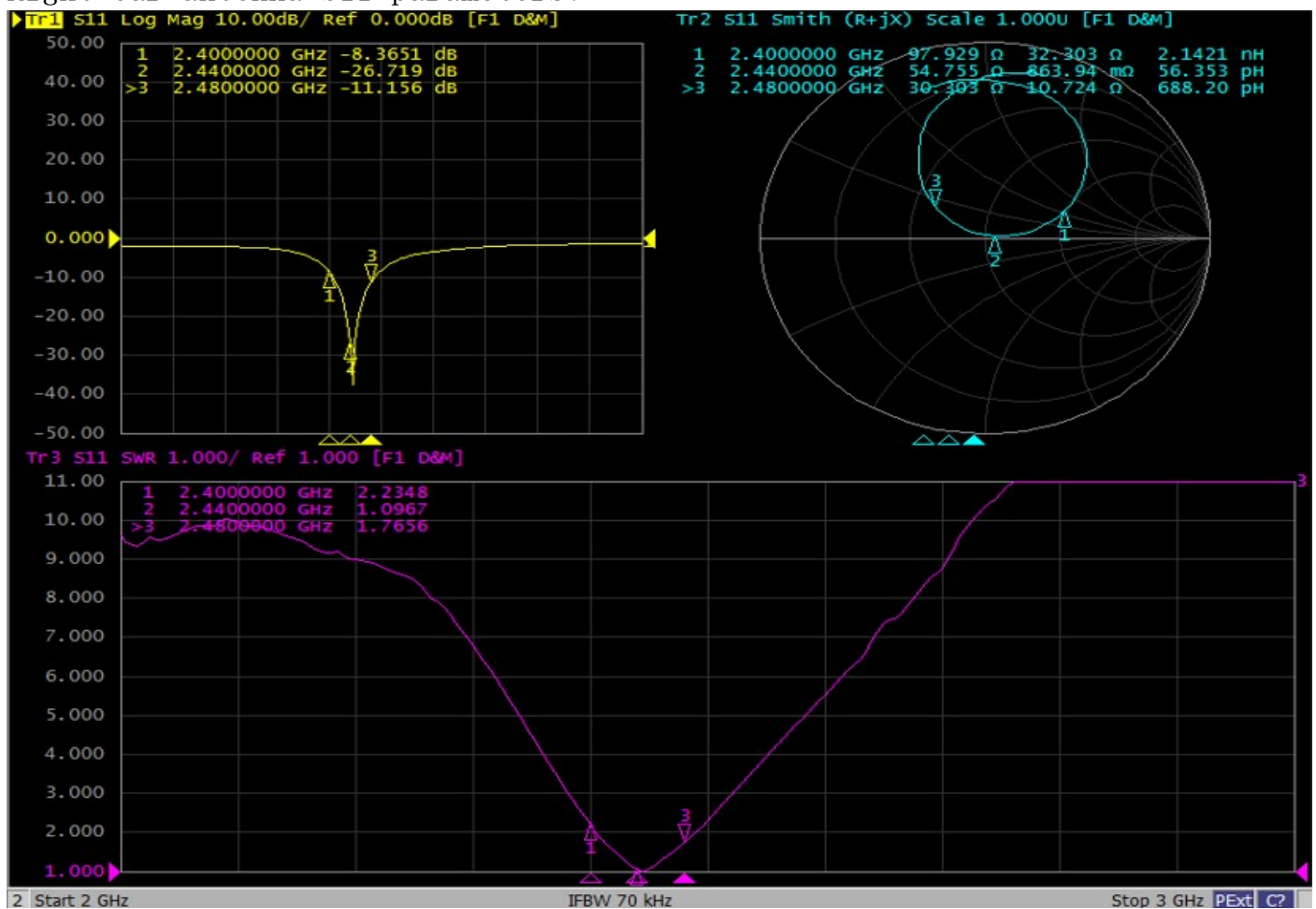


I: The report of passive data



Angilent E5071C

Right ear antenna S11 parameters:





Efficiency and gain of right ear antenna:

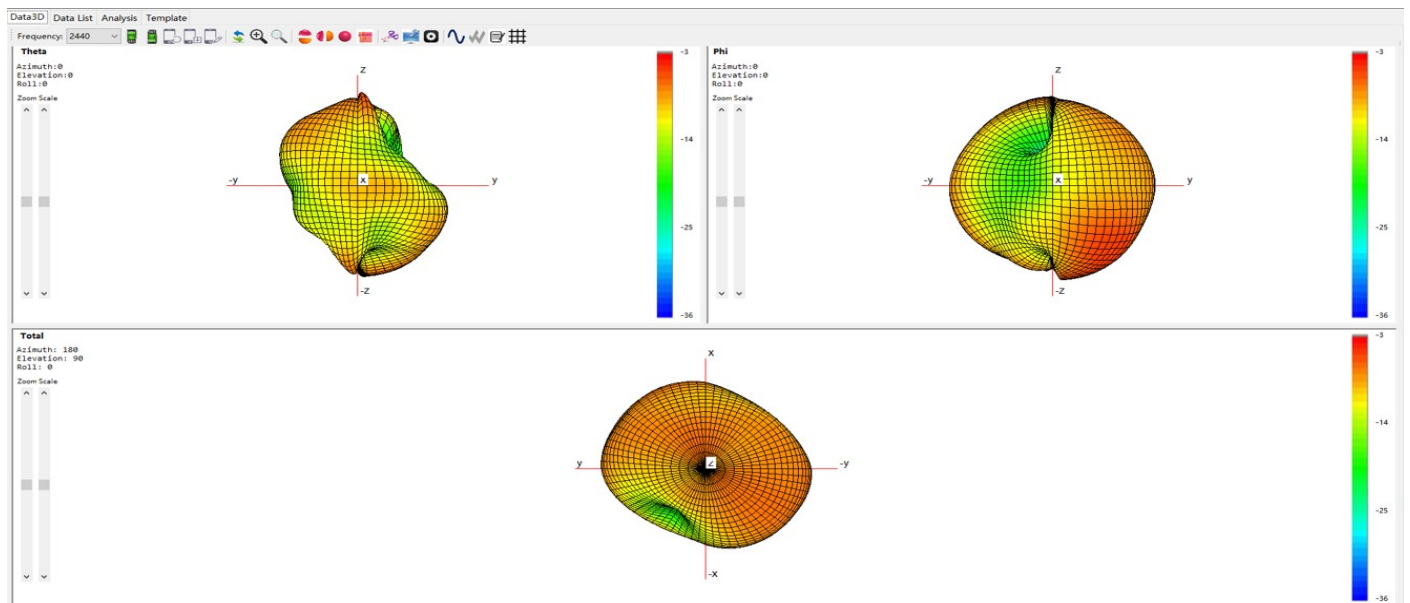
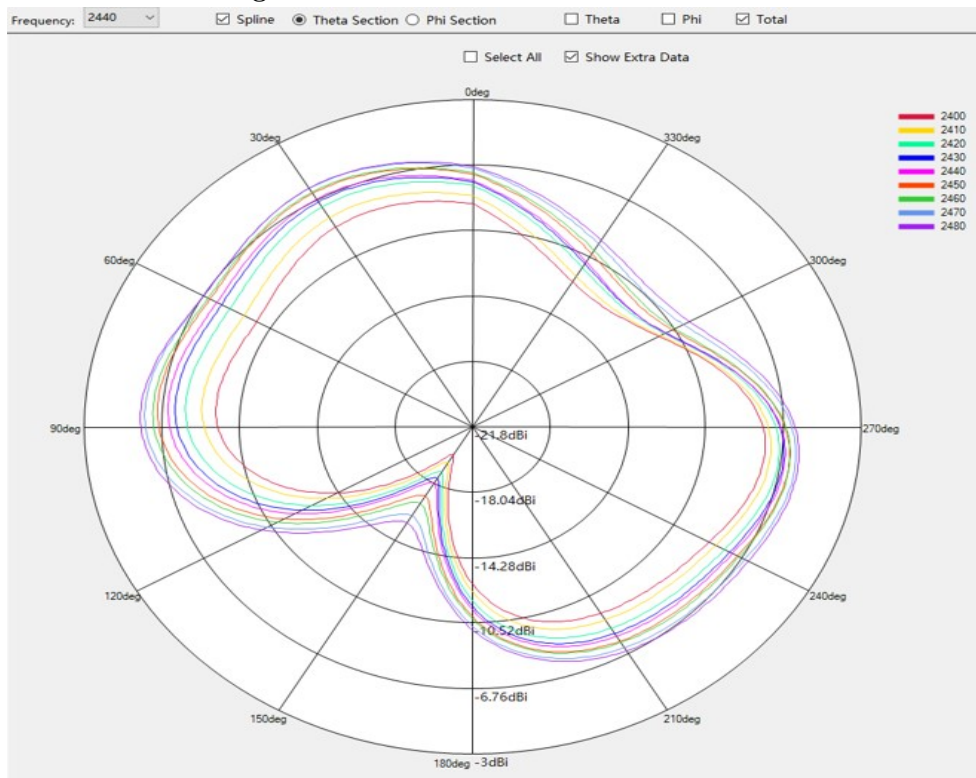
R FS			
Frequency MHz	Gain (dBi)	efficiency (dB)	efficiency %
2400	-4.07	-8.85	13.02
2410	-3.83	-8.44	14.32
2420	-3.71	-8.09	15.54
2430	-3.79	-7.92	16.13
2440	-3.98	-7.86	16.38
2450	-4.03	-7.62	17.29
2460	-4.11	-7.68	17.05
2470	-4.03	-7.52	17.70
2480	-4.16	-7.55	17.60
Average value	-3.97	-7.95	16.11

Maximum gain of right ear antenna: -3.71



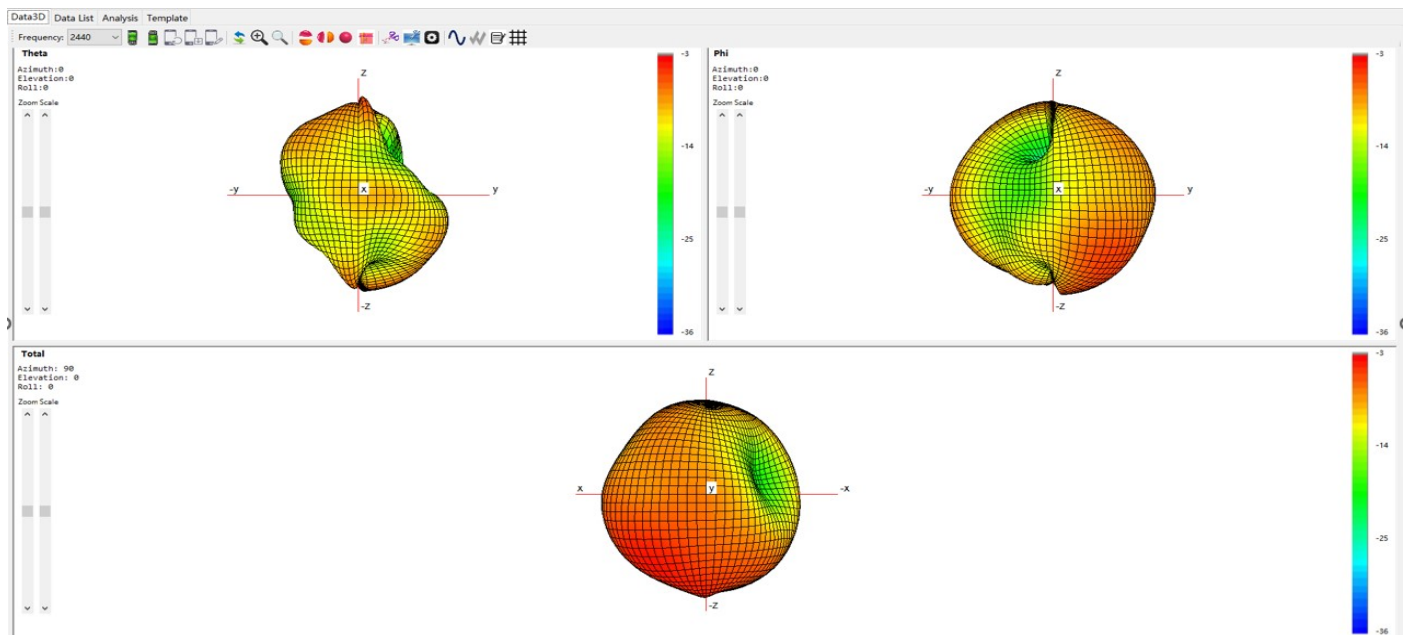
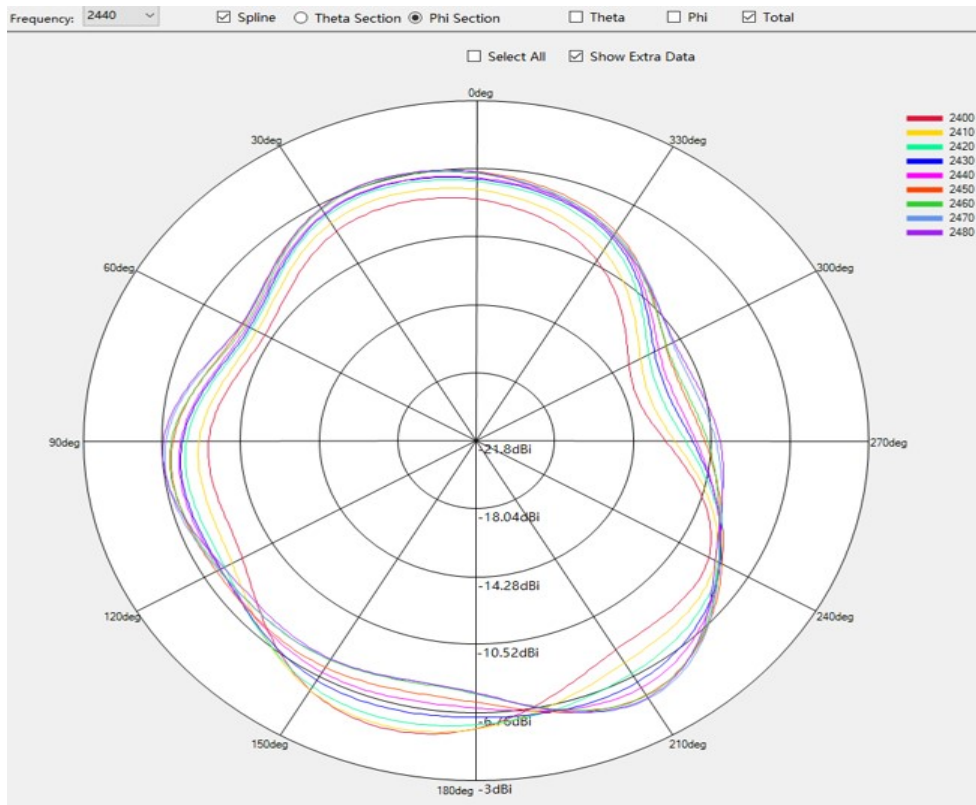
2D and 3D directional patterns of right ear antenna:

Theta=90.00deg (unit: dBi)



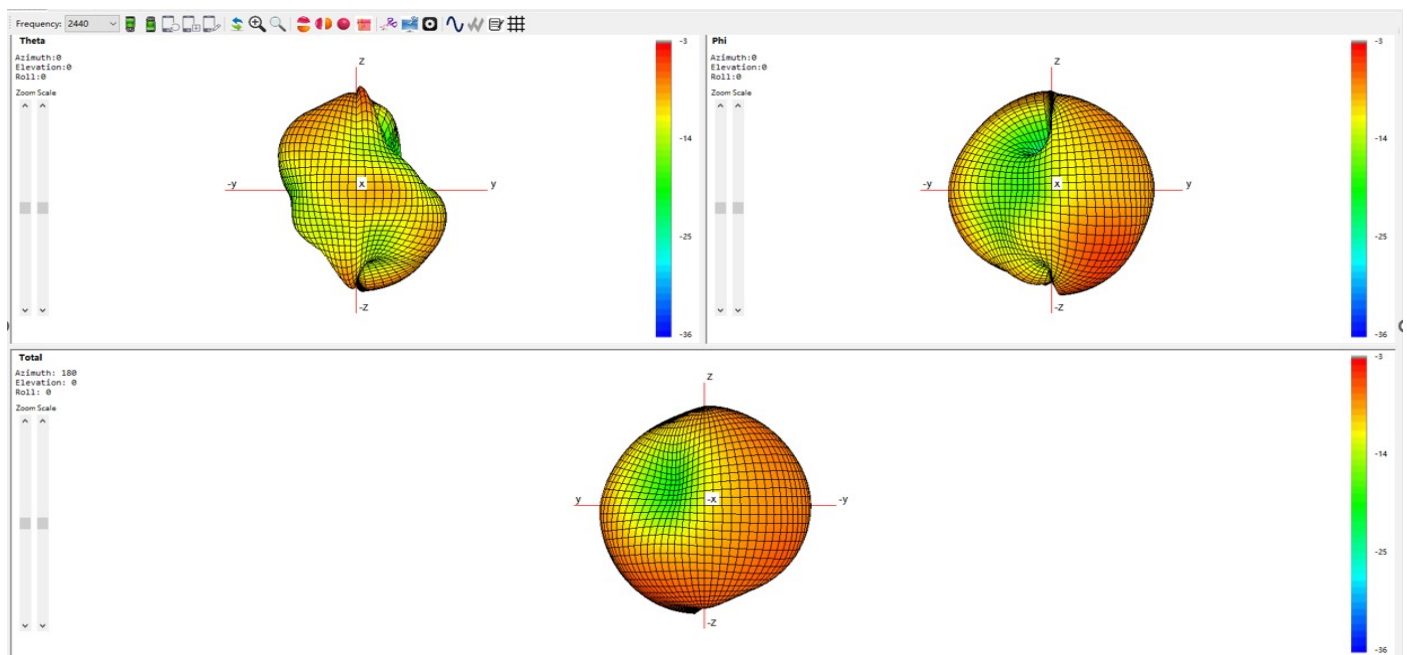
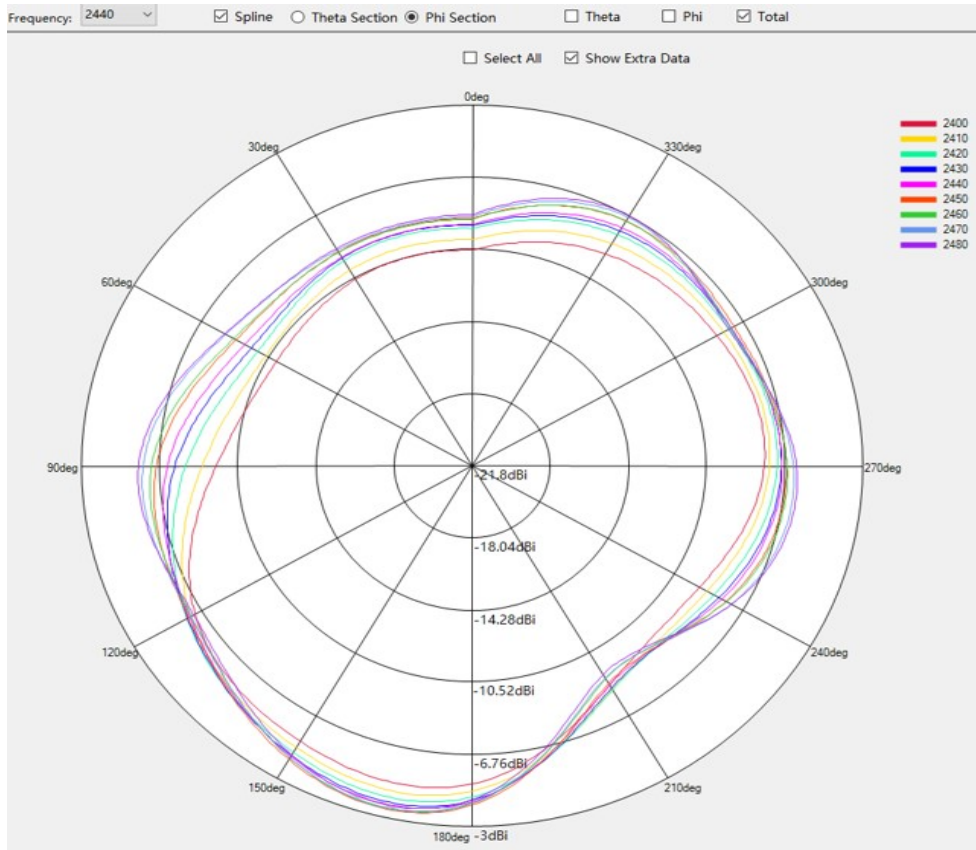


Phi=0.00deg (unit: dBi)





Phi=90.00deg (unit: dBi)





II: 3D Active test report of antenna

		Free Space	
	Channel	TRP	TIS
R	CH 0	4.7	-88.5
	CH 39	5.2	-88.5
	CH 78	5.3	-86.7
		Phantom	
	Channel	TRP	TIS
R	CH 0	-1.3	-81.5
	CH 39	-0.8	-81.0
	CH 78	-0.7	-79.7

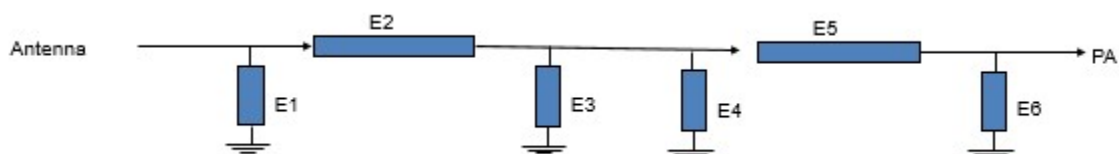
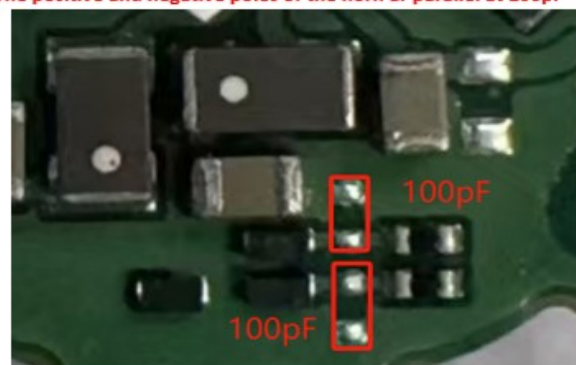


OTA Standard Chamber

III: Matching circuit



The positive and negative poles of the horn are parallel at 100pF



Element	Value	Element	Value
E1(0201)	N/A	E4(0201)	2.0pF
E2(0201)	3.9nH	E5(0201)	3.0nH
E3(0201)	4.7nH	E6(0201)	N/A

IV: Structure file

