



Antenna Part Specification

Customer name:	Cosonic Intelligent Technologies Co., Ltd.
Project name:	A6611C
Material category:	L-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

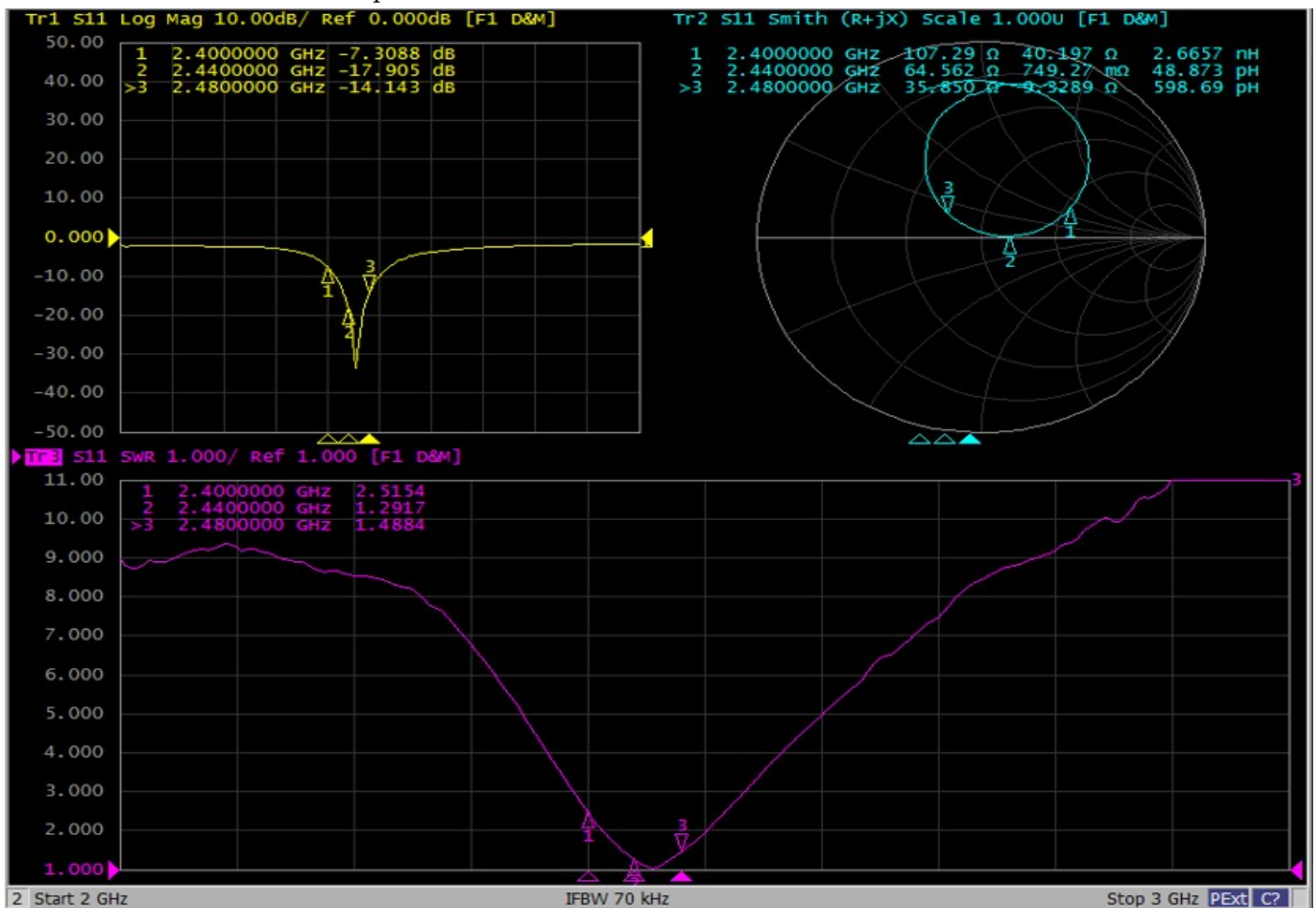


I: The report of passive data



Angilent E5071C

Left ear antenna S11 parameters:





Efficiency and gain of left ear antenna:

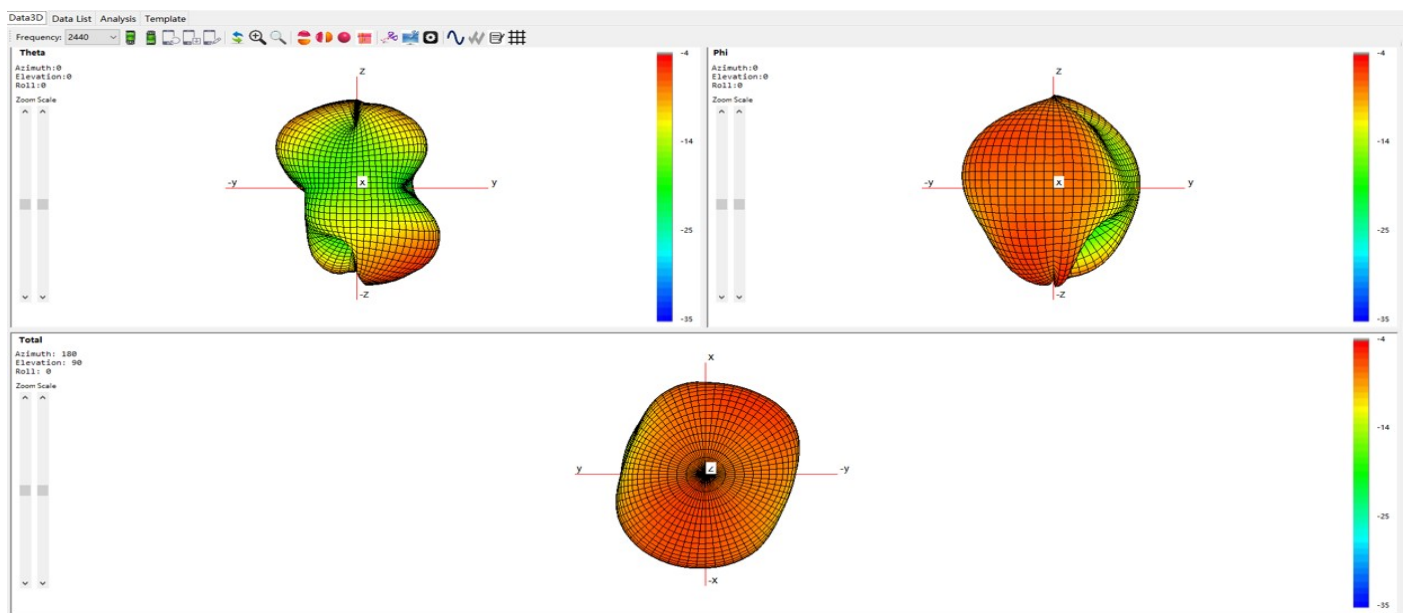
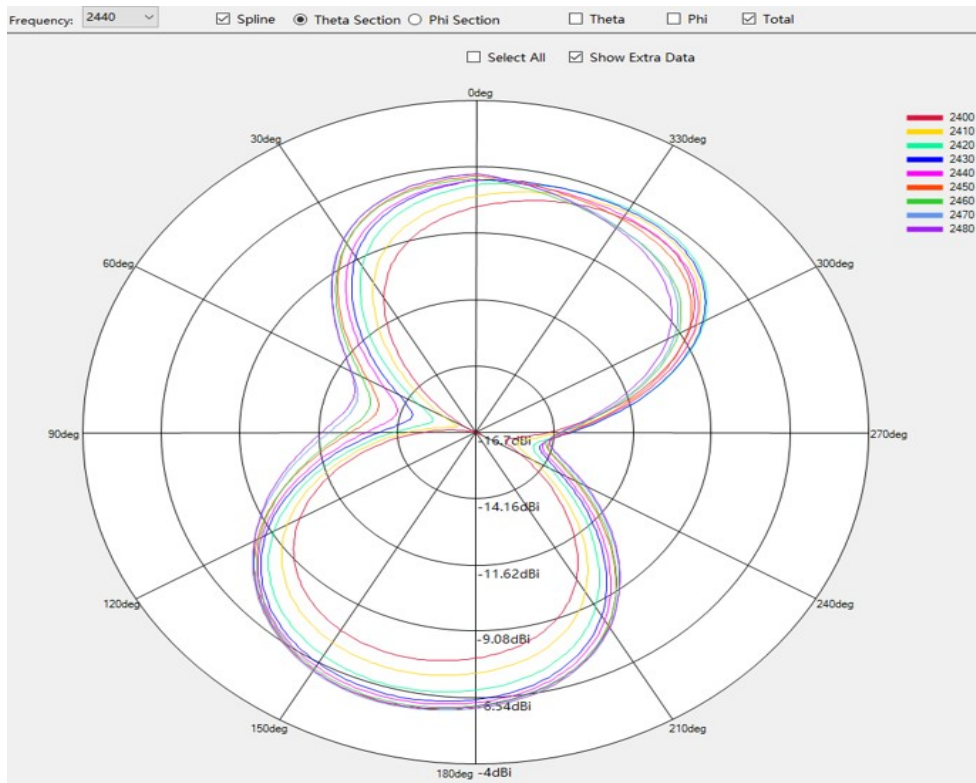
L FS			
Frequency MHz	Gain (dBi)	efficiency (dB)	efficiency %
2400	-6.17	-8.93	12.80
2410	-5.45	-8.43	14.35
2420	-5.04	-8.04	15.69
2430	-4.85	-7.89	16.25
2440	-4.88	-7.88	16.30
2450	-4.91	-7.79	16.63
2460	-5.20	-8.03	15.73
2470	-5.14	-8.07	15.59
2480	-5.26	-8.30	14.78
Average value	-5.21	-8.15	15.35

Maximum gain of left ear antenna: -4.85



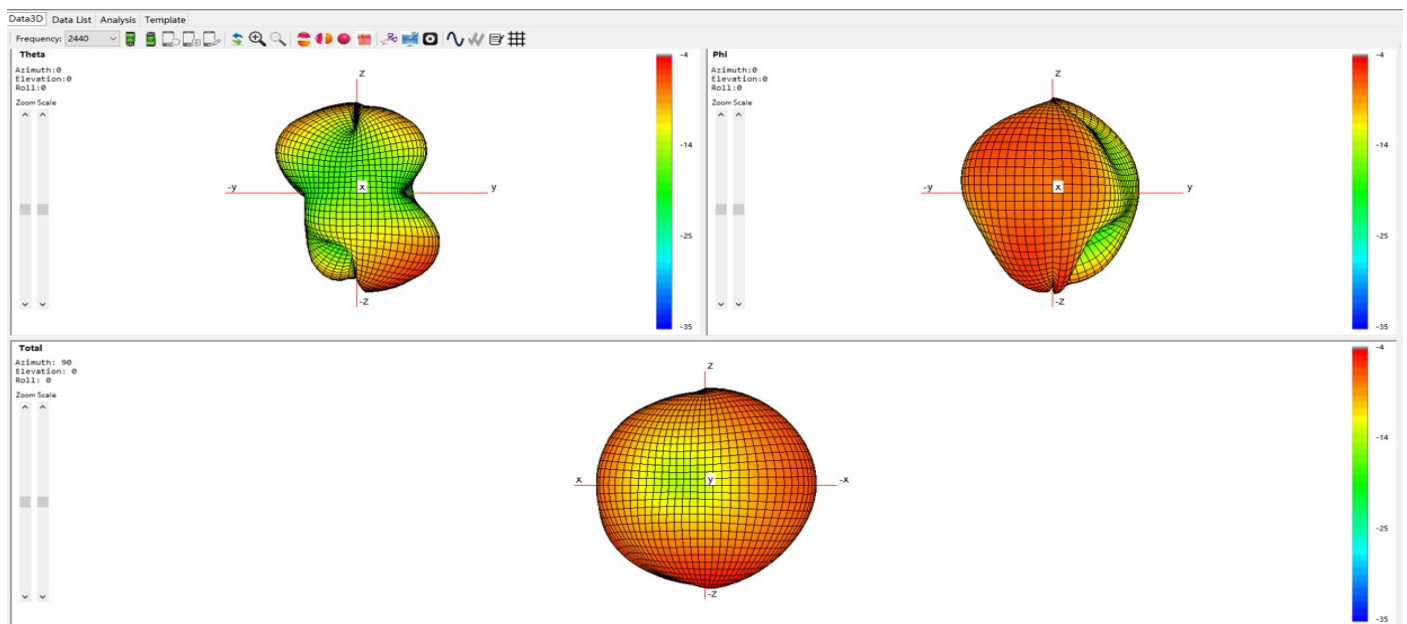
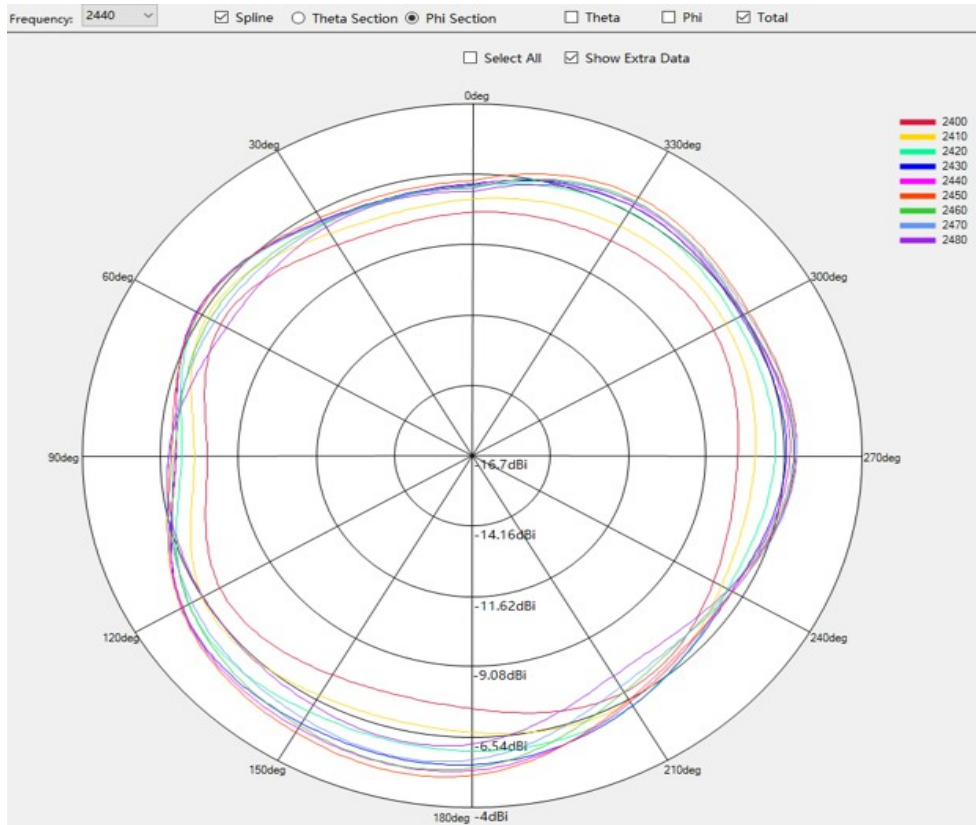
2D and 3D directional patterns of left ear antenna:

Theta=90.00deg (unit: dBi)



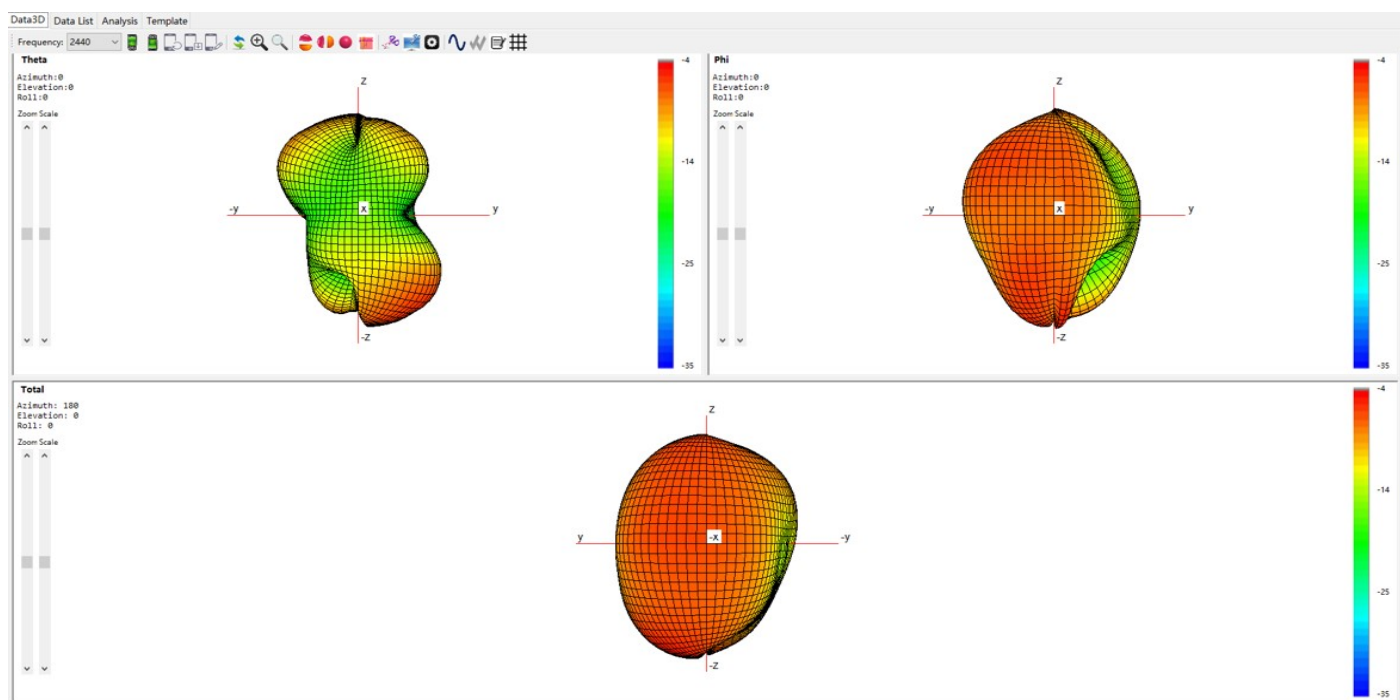
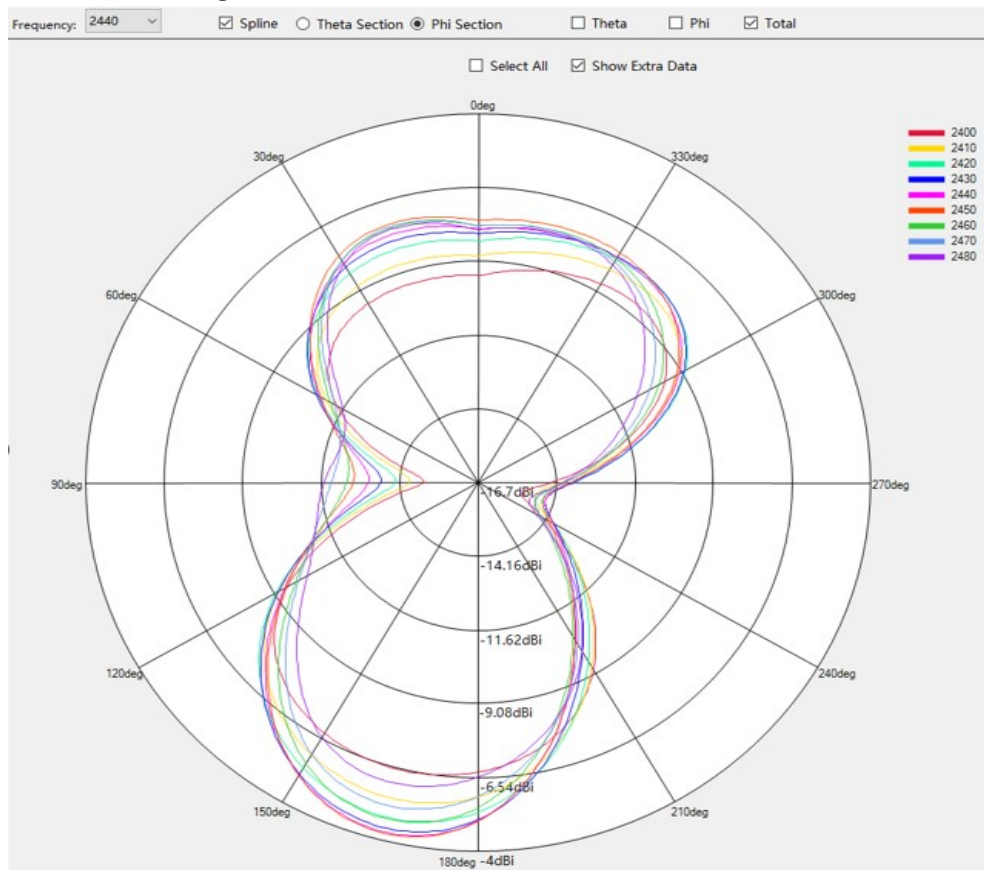


Phi=0.00deg (unit: dBi)





Phi=90.00deg (unit: dBi)





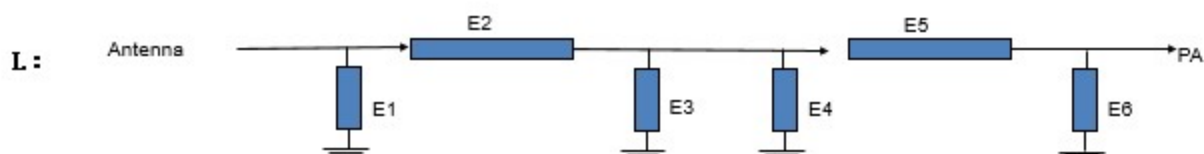
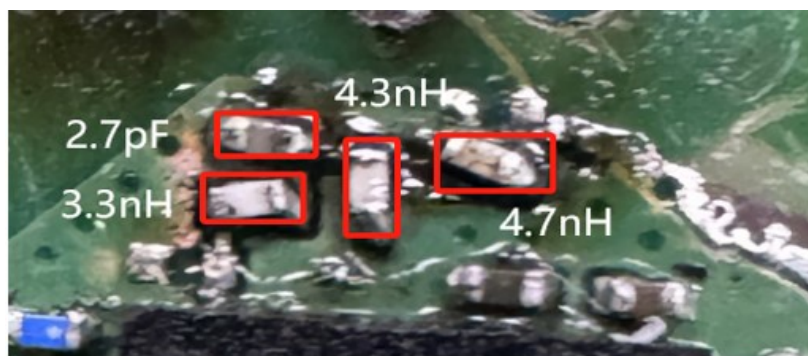
II: 3D Active test report of antenna

		Free Space	
	Channel	TRP	TIS
L	CH 0	4.6	-87.4
	CH 39	5.5	-87.7
	CH 78	5.8	-86.4
		Phantom	
	Channel	TRP	TIS
L	CH 0	-1.4	-80.4
	CH 39	-0.6	-80.7
	CH 78	-0.2	-79.4



OTA Standard Chamber

III: Matching circuit



Element	Value	Element	Value
E1(0201)	N/A	E4(0201)	2.7pF
E2(0201)	4.7nH	E5(0201)	3.3nH
E3(0201)	4.3nH	E6(0201)	N/A



IV: Structure file

