



Antenna Part Specification

Project name:	TW009
Material category:	LDS antenna
Version:	V1.0
Material Number:	L:402BK3B2260/R:402BK3B2261
Supplier Name:	Shenzhen Cicent Communication Technology Co., Ltd.
Date:	2024.12.03



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.12.03	First edition	First edition	V1.0

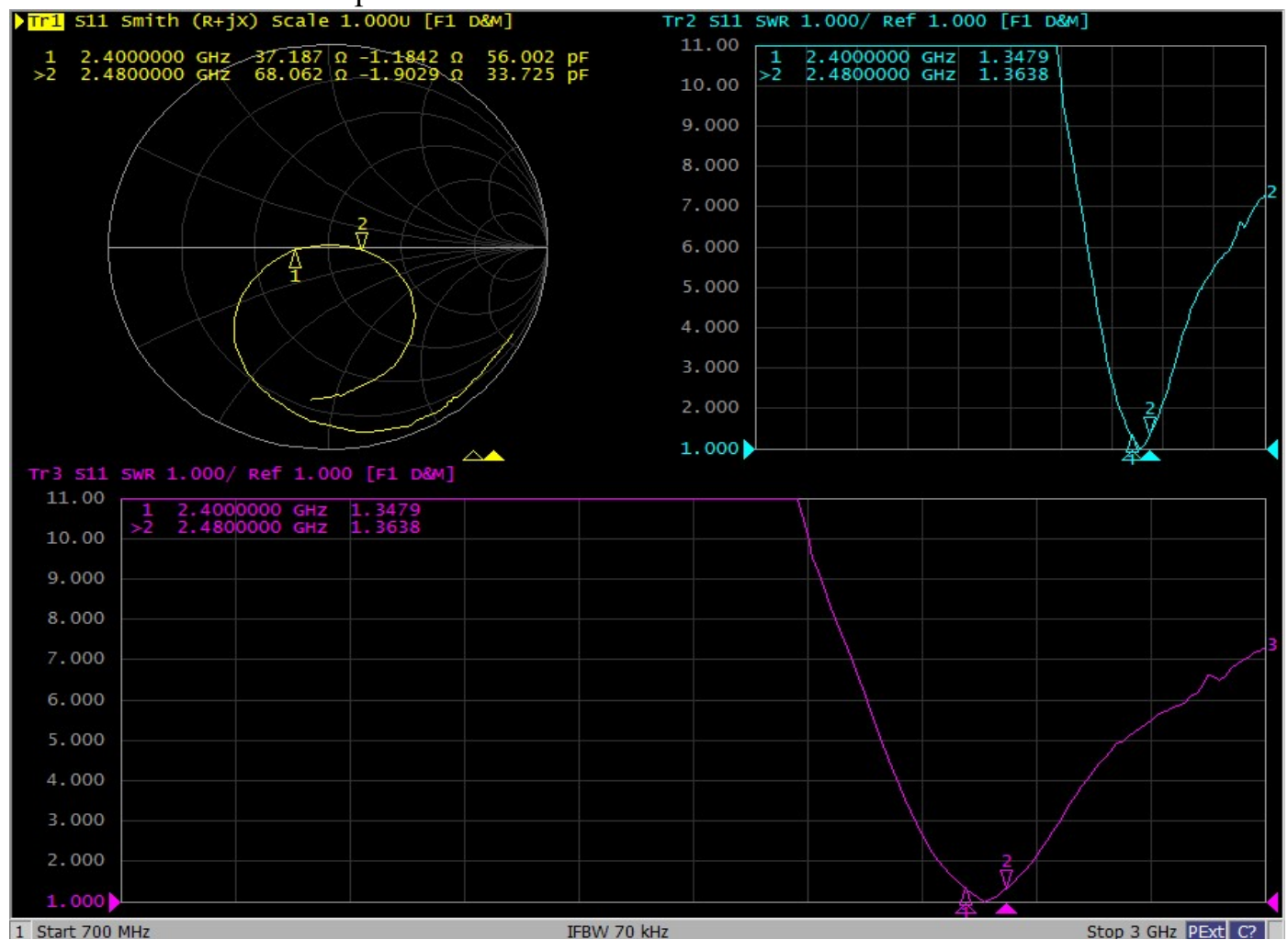


I: The report of passive data



Angilent E5071C

Left ear BT antenna S11 parameter:



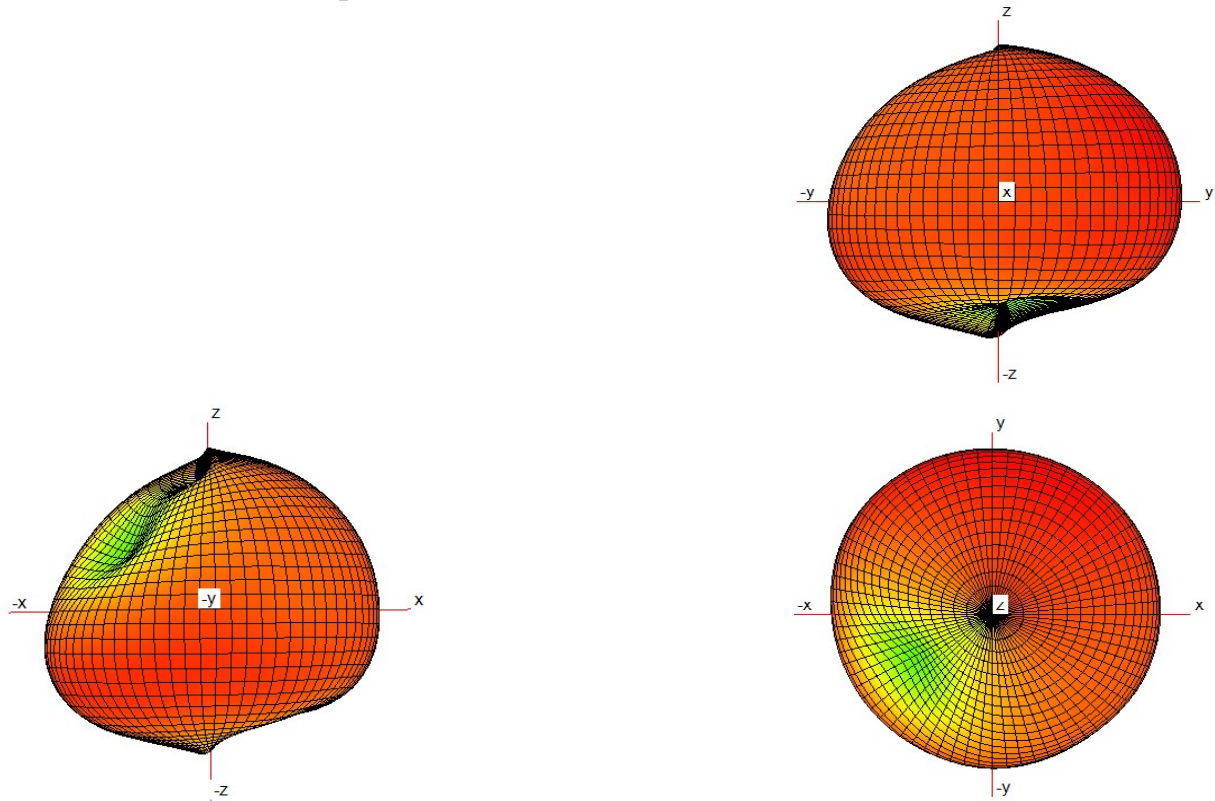


Left ear BT antenna Efficiency and gain:

FS			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-2.98	-5.47	28.36
2410	-3.02	-5.54	27.92
2420	-2.58	-5.24	29.94
2430	-2.10	-4.94	32.09
2440	-2.15	-5.09	31.01
2450	-2.14	-5.13	30.70
2460	-2.14	-5.19	30.29
2470	-2.16	-5.26	29.77
2480	-2.18	-5.27	29.72
Average value	-2.38	-5.24	29.98



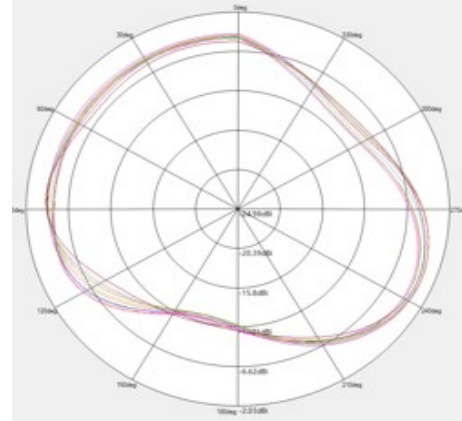
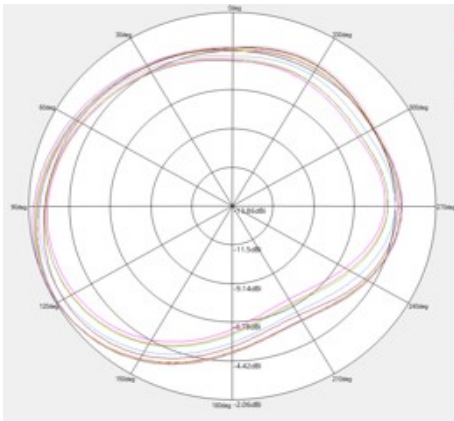
Passive 3D directional pattern of left ear BT antenna (FS):



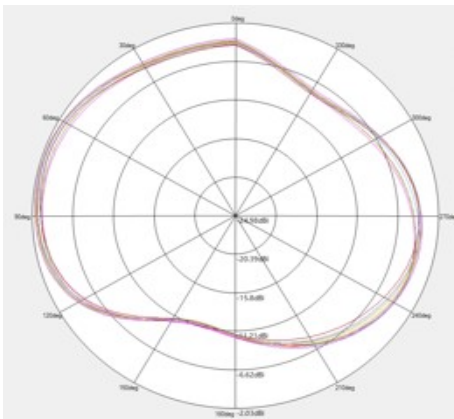
Passive 2D directional pattern of left ear BT antenna (FS):

Theta=90°

Phi= 0°

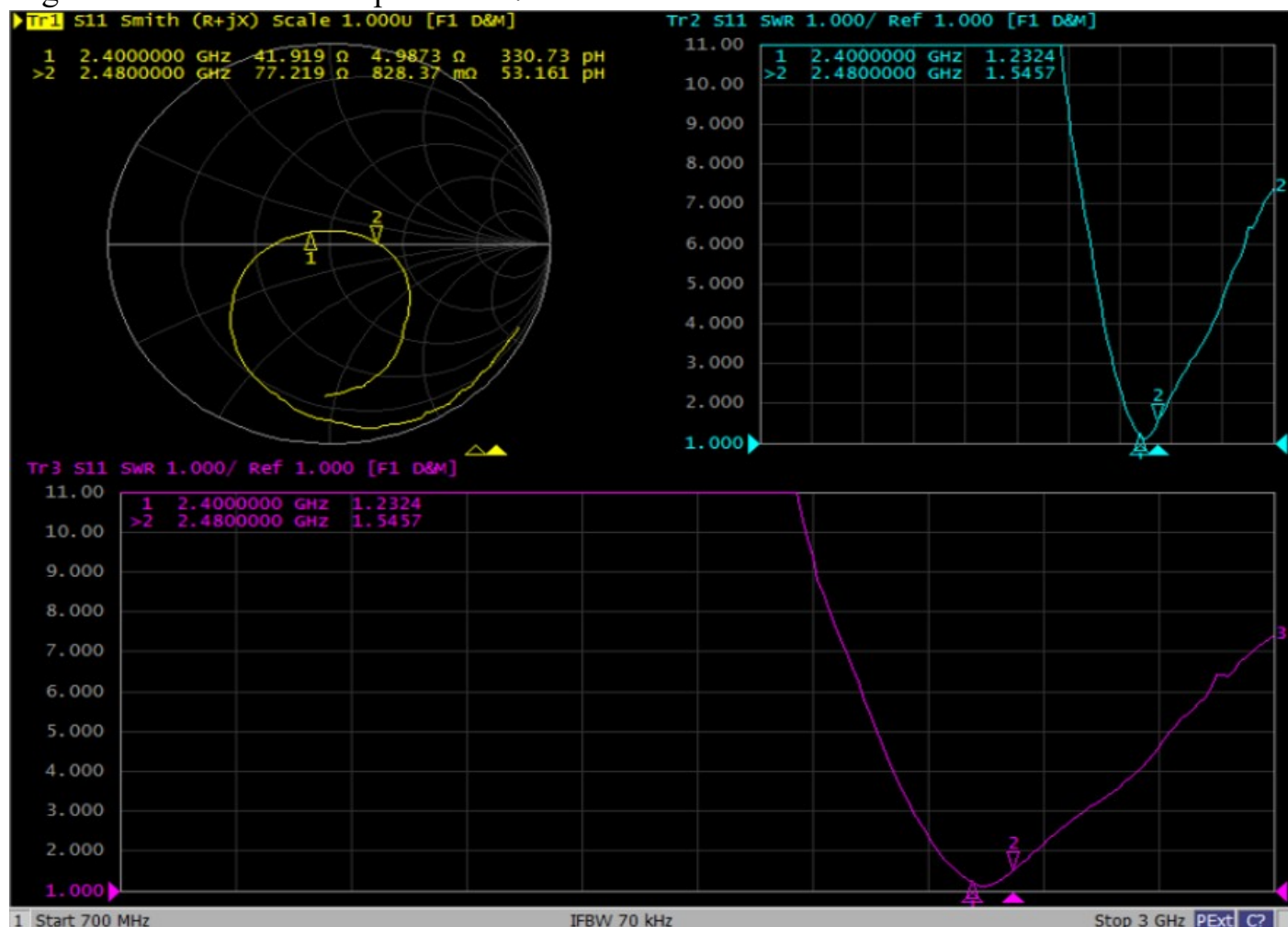


Phi= 90°





Right ear BT antenna S11 parameter:



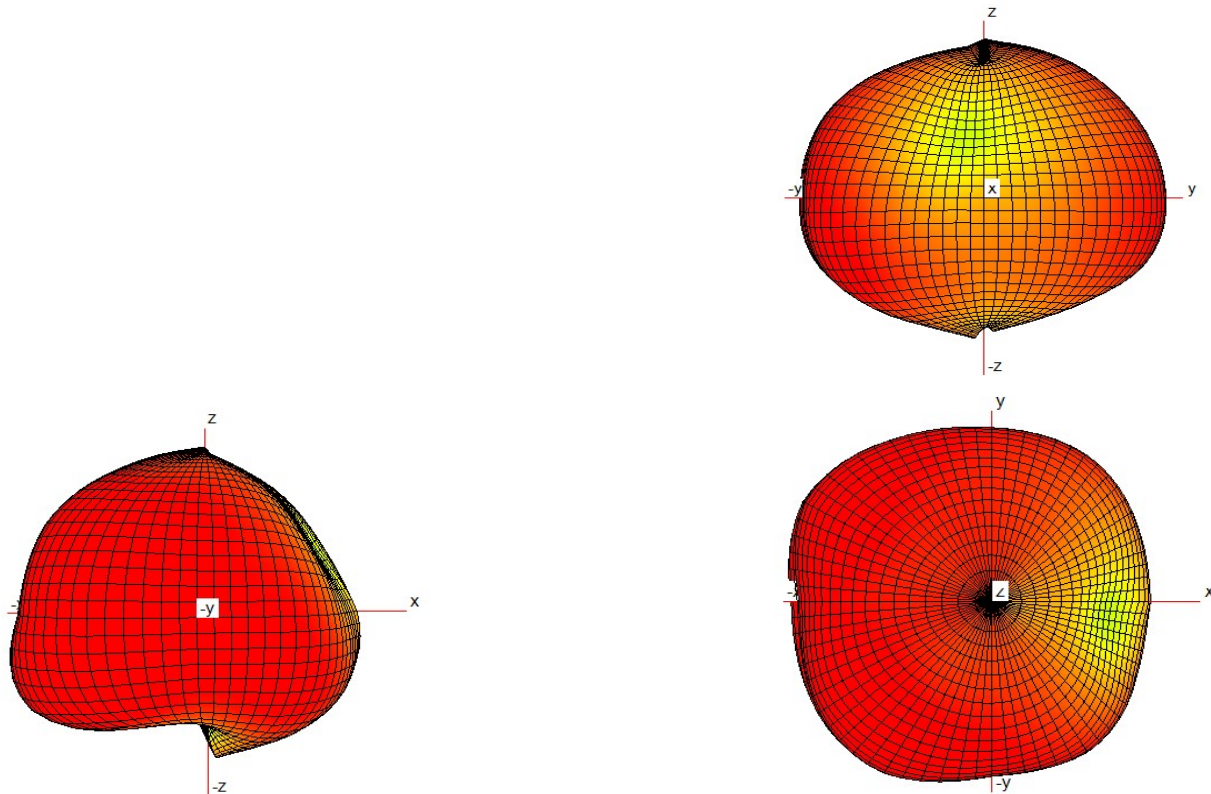


Right ear BT antenna Efficiency and gain:

FS			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-1.10	-5.23	30.00
2410	-1.09	-5.15	30.55
2420	-0.97	-5.05	31.24
2430	-1.20	-5.22	30.07
2440	-1.51	-5.42	28.71
2450	-1.38	-5.31	29.41
2460	-1.46	-5.45	28.51
2470	-1.26	-5.26	29.75
2480	-1.03	-5.09	31.01
Average value	-1.22	-5.24	29.92



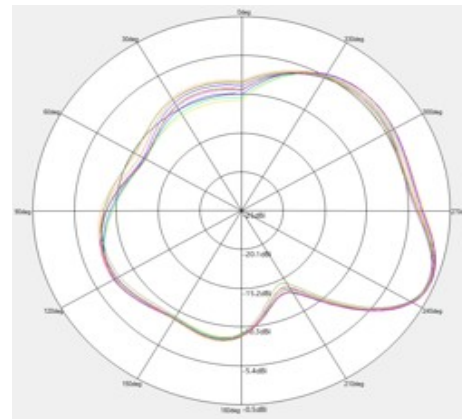
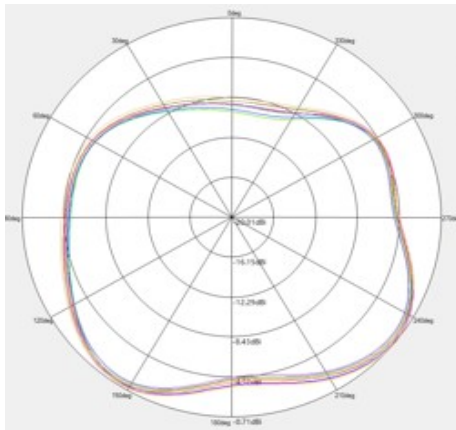
Passive 3D directional pattern of right ear BT antenna (FS):



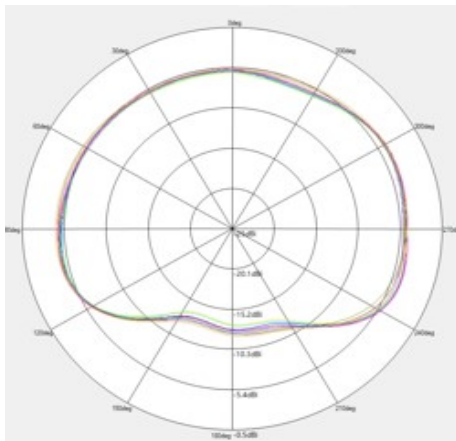
Passive 2D directional pattern of right ear BT antenna (FS):

Theta=90°

Phi= 0°



Phi= 90°





II: Matching circuit

Left ear matching circuit:



Element	Value
E1(0201)	N/A
E2(0201)	N/A
E3(0201)	1.0pF
E4(0201)	N/A

Right ear matching circuit:



Element	Value
E1(0201)	N/A
E2(0201)	N/A
E3(0201)	1.0pF
E4(0201)	N/A



III: Structure file:

