



Antenna Part Specification

Project name:	Saramonic Air SE-TX
Antenna Name:	FPC
Version:	V1.0
Date:	2025.9.30
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,A Block,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



Contents

I: The report of passive data	3
II: 3D Active test report of antenna	6
III: Antenna matching.....	6
IV: Installation environment treatment method.....	7
V: Antenna structure drawing.....	8

Change record			
Compile / change date	Reason for change	Changed content	Version
2025.9.30	First edition	First edition	V1.0



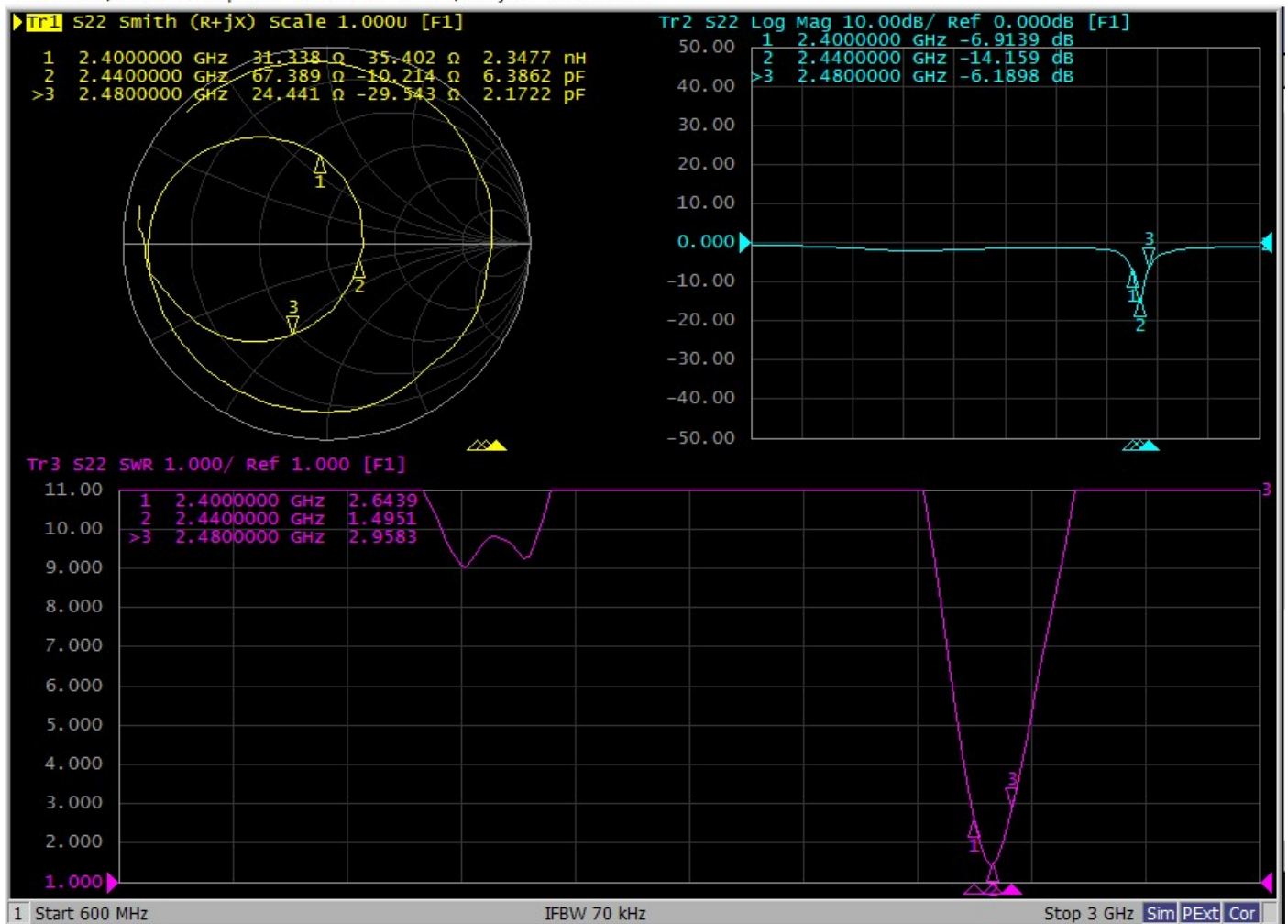
I: The report of passive data



Angilent E5071C

antenna S11 parameter:

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

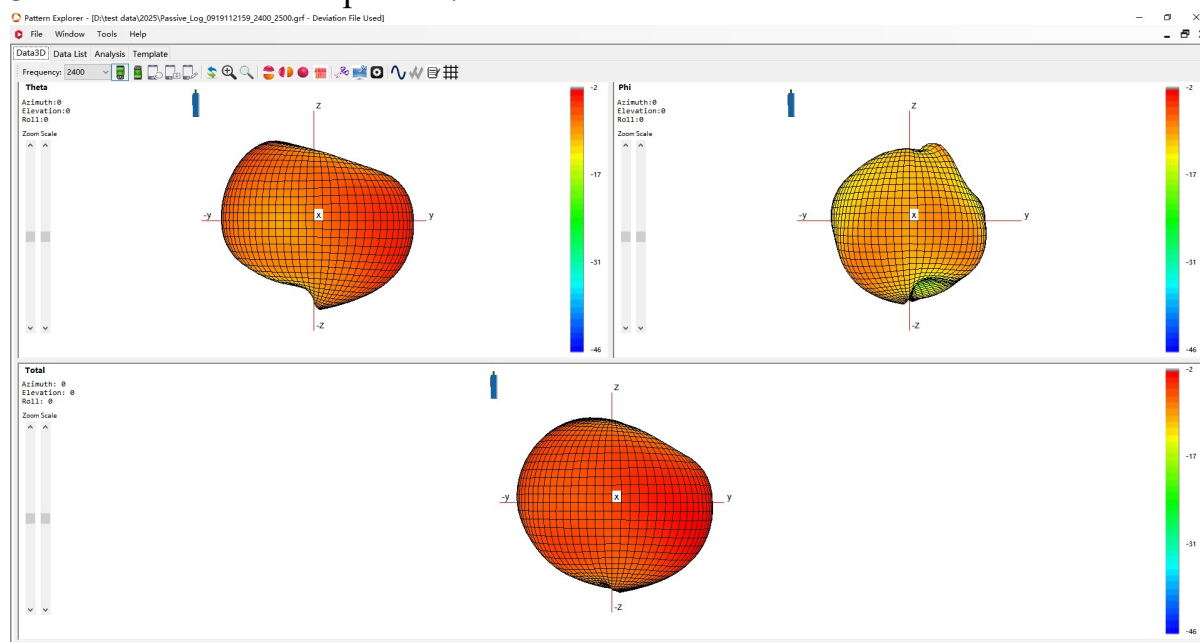




Antenna efficiency and gain:

2400-2480MHz			
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-6.6	-3.6	21.5
2410	-6.3	-3.2	23.2
2420	-5.5	-2.4	27.9
2430	-4.9	-1.8	32.1
2440	-4.6	-1.5	34.4
2450	-4.8	-1.7	33.4
2460	-5.2	-2.1	30.2
2470	-5.8	-2.8	26.1
2480	-6.3	-3.2	23.9
AVG	-5.6	-2.5	28.1

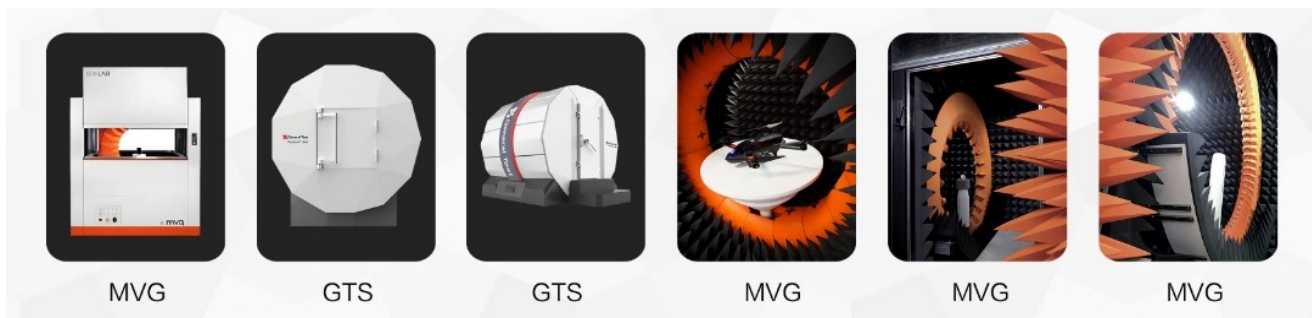
3D Antenna radiation pattern:





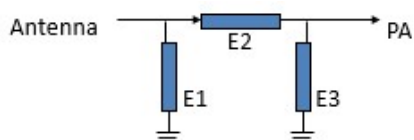
II: 3D Active test report of antenna

1#	Channel	Free	
		TRP (dBm)	TIS (dBm)
BT	0	8.4	-89.2
	39	7.8	-88.9
	78	7.0	-88.2

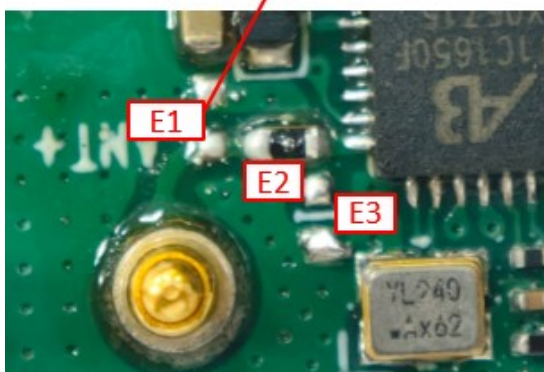


OTA Standard Chamber

III: Antenna matching

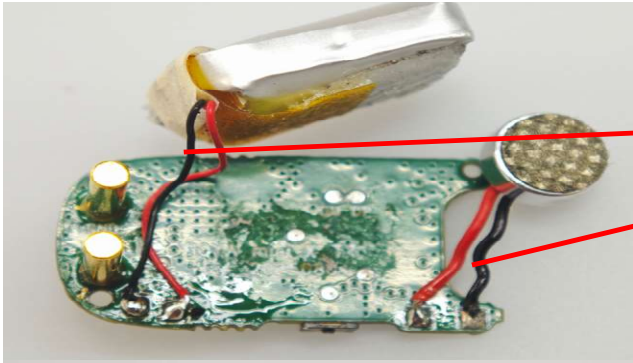


number	value
E1	2.4PF
E2	0Ω
E3	NA





IV: Installation environment treatment method



The battery cable is 17mm long, and the MIC cable is 11.5mm long.



Battery assembly direction.



After installing the FPC antenna, please be sure to perform a cold pressing process to ensure that the FPC is properly attached. Otherwise, there may be consistency issues with antenna performance.



V: Antenna structure drawing

