



Antenna Part Specification

Customer name:	EDIFIER
Project name:	X3 Air
Material category:	BT antenna
Version:	V1.0
Date:	2023.06.27



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Change record			
Compile / change date	Reason for change	Changed content	Version

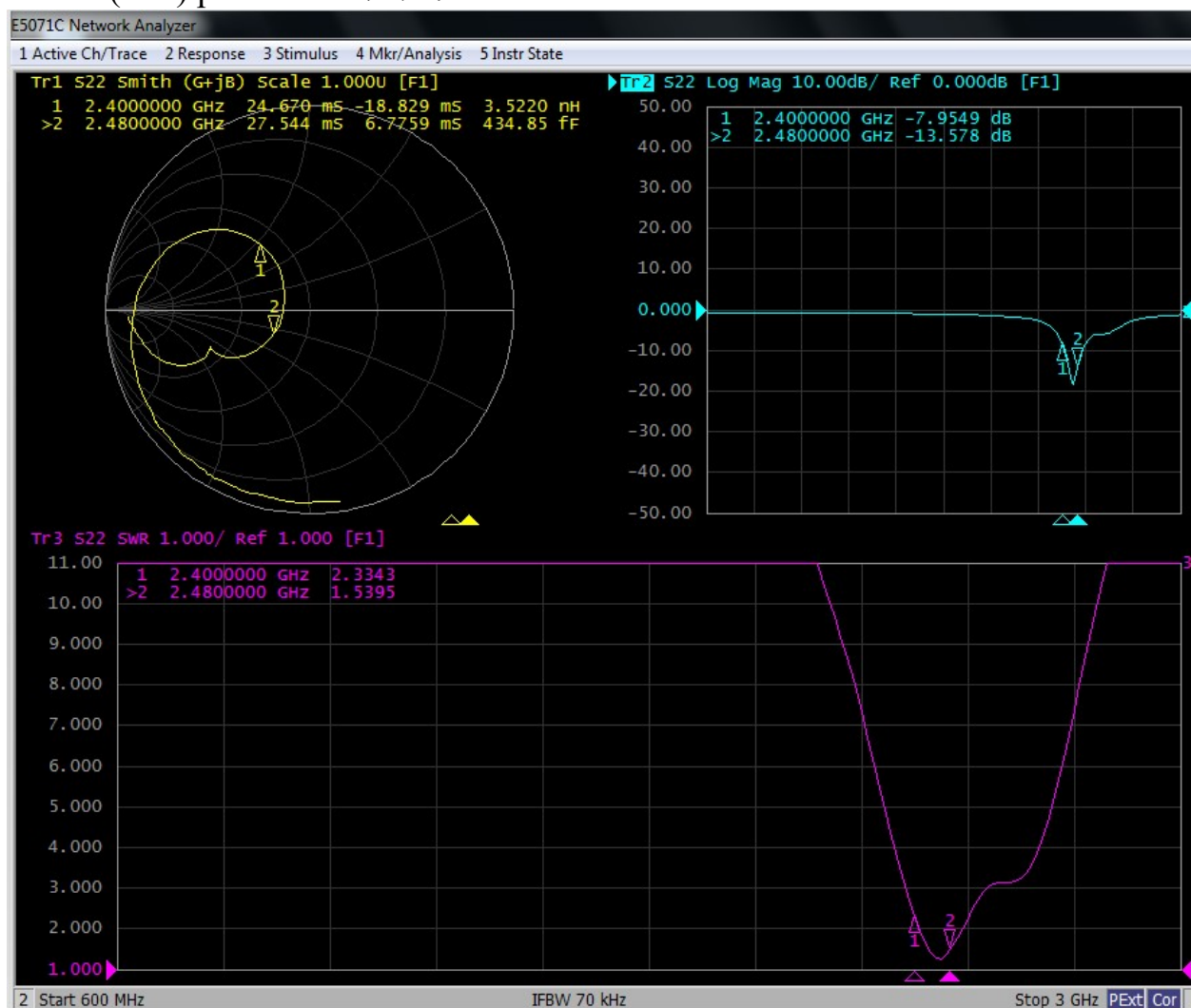


I: The report of passive data



Agilent E5071C

VSWR(S11) parameter (L) :

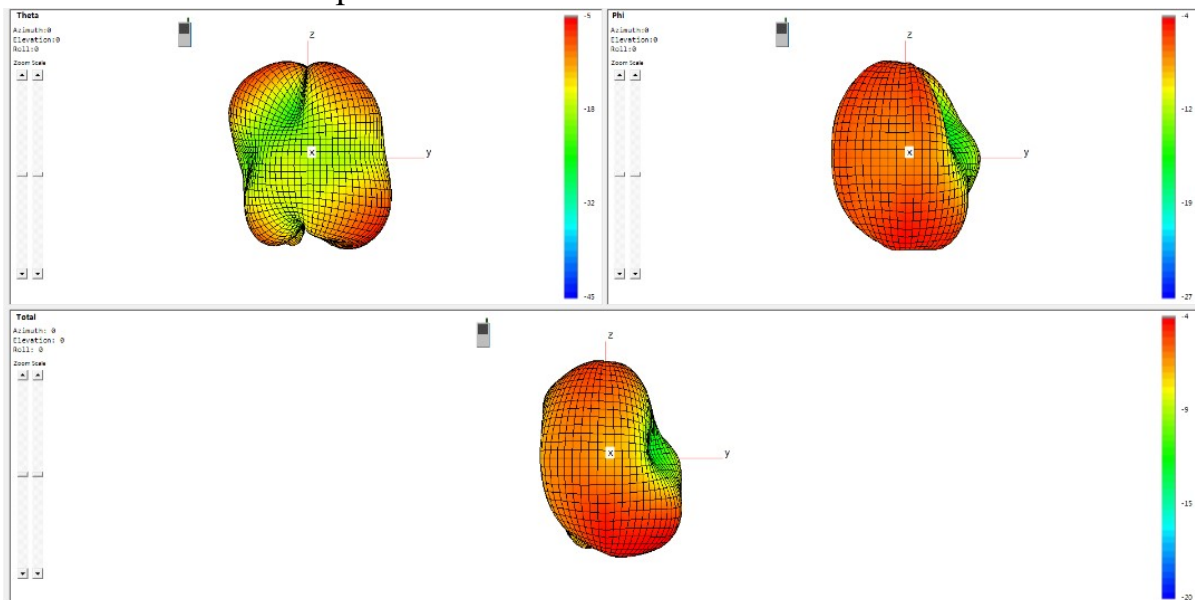




Efficiency:

2400-2480 MHz (L)			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	-5.01	-7.73	16.86
2410	-4.69	-7.37	18.34
2420	-4.32	-6.99	20.00
2430	-4.09	-6.93	20.29
2440	-4.04	-6.92	20.33
2450	-3.91	-6.68	21.49
2460	-3.86	-6.66	21.57
2470	-3.35	-6.38	22.99
2480	-2.89	-6.24	23.78
Average value	-4.02	-6.88	20.63

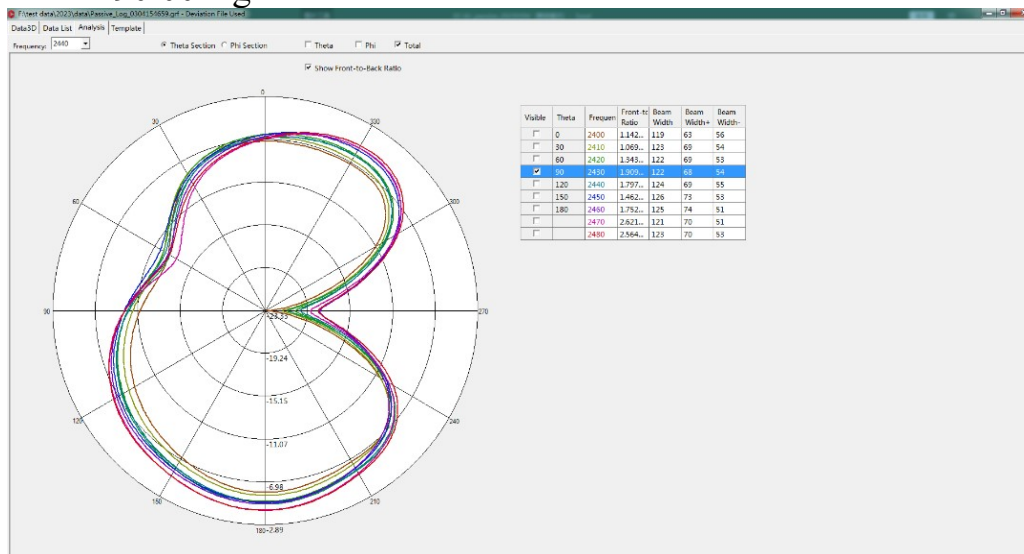
3D Antenna radiation pattern (L) :



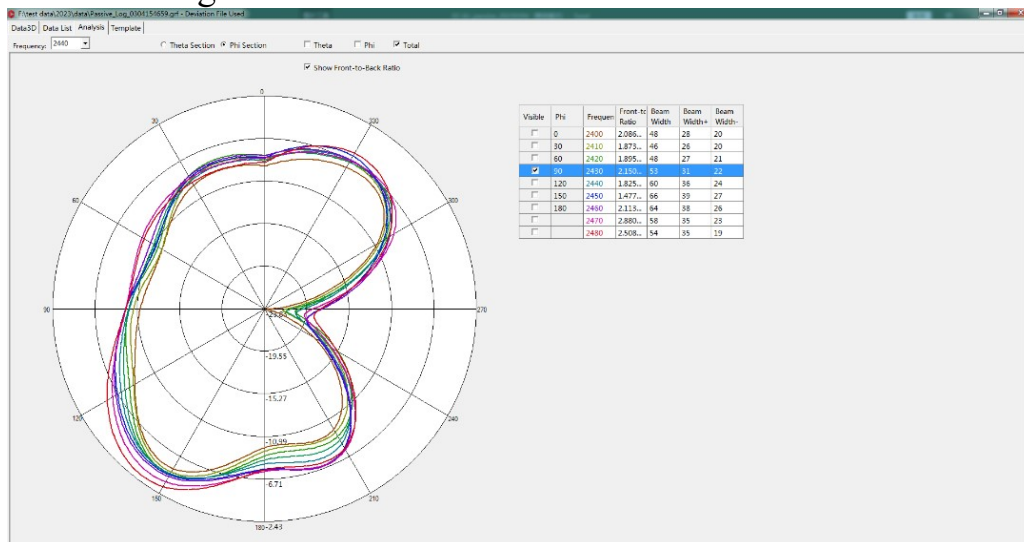


Antenna radiation pattern (L) :

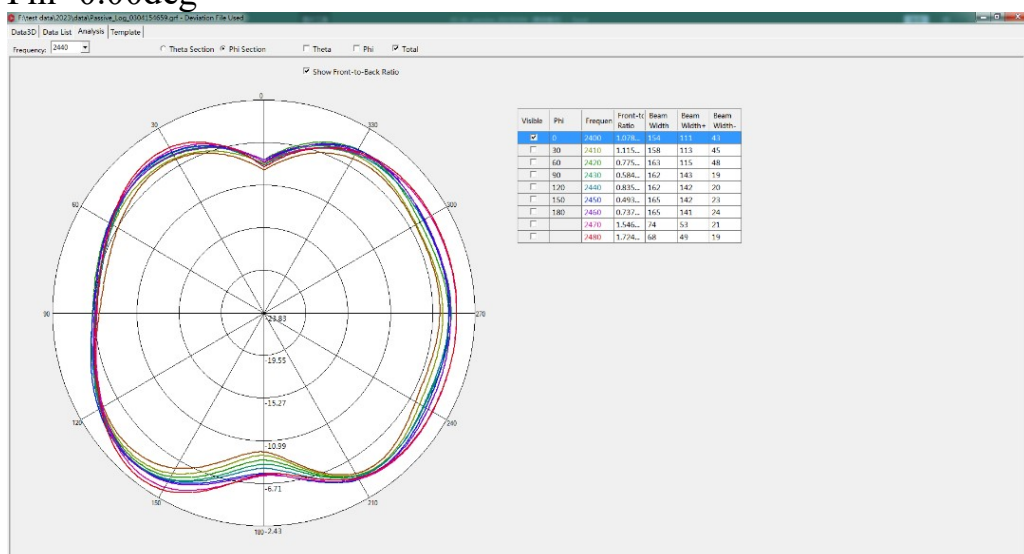
Theta=90.00deg



Phi=90.00deg

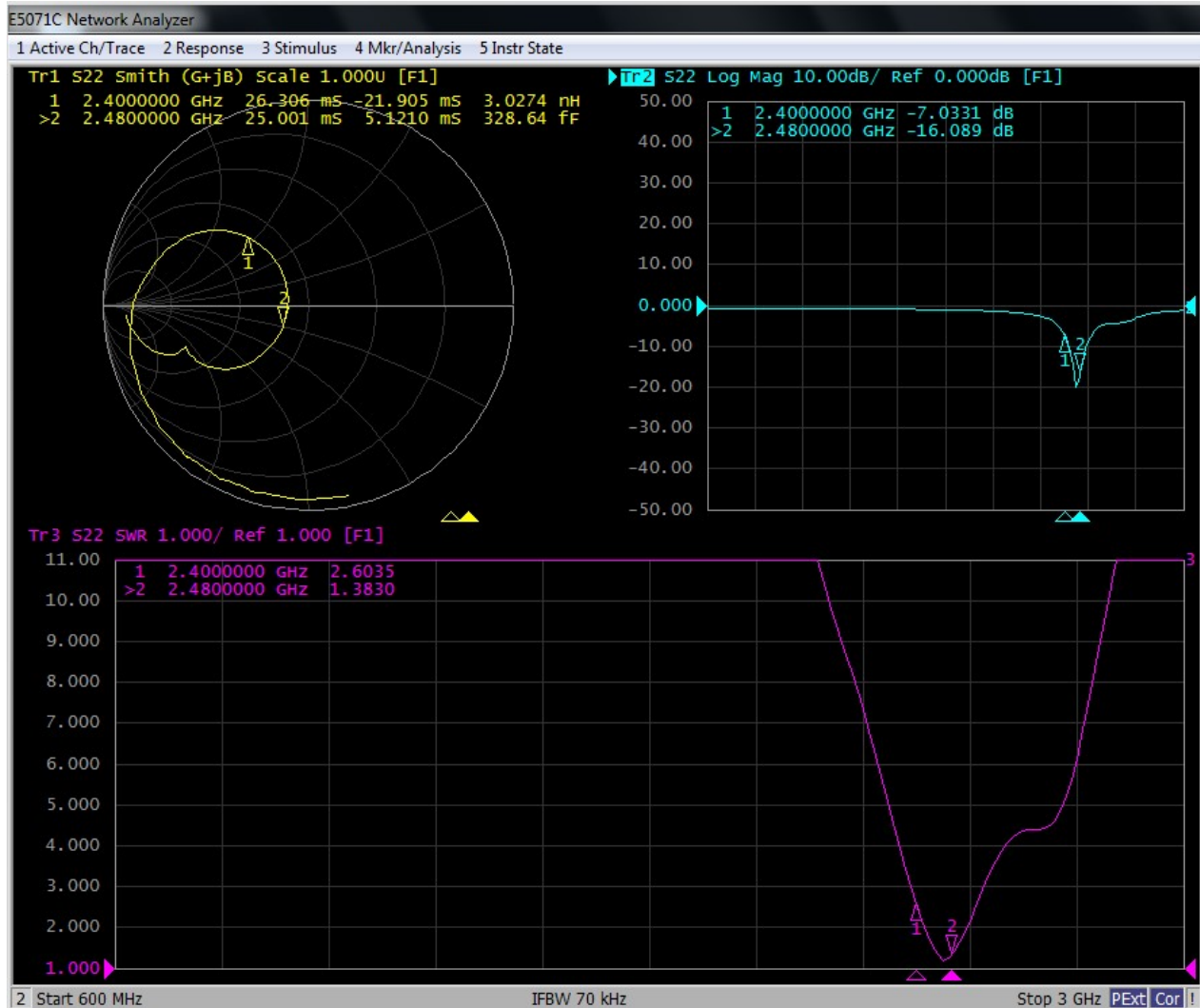


Phi=0.00deg





VSWR(S11) parameter (R) :

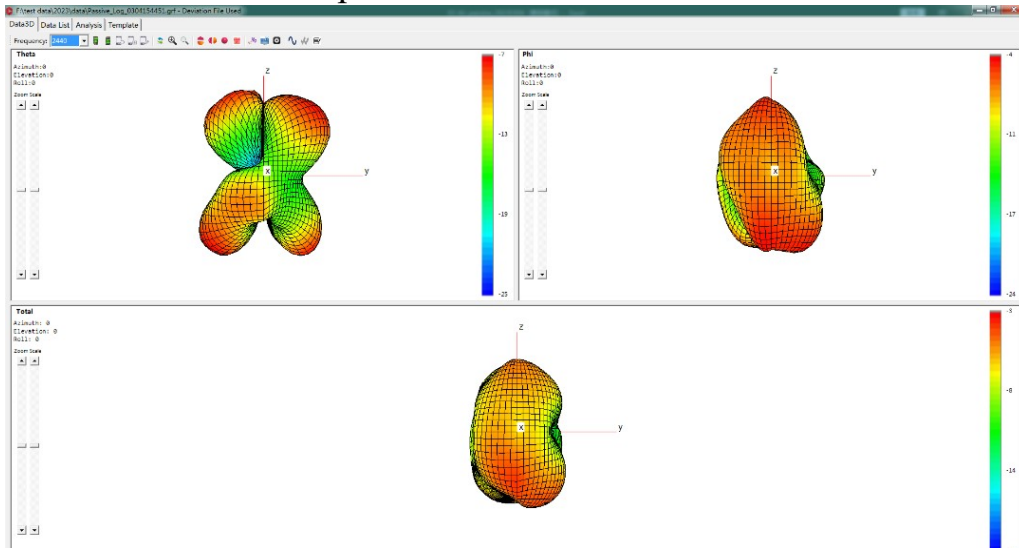


Efficiency:

2400-2480 MHz (R)			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	-4.59	-8.17	15.24
2410	-4.26	-7.70	16.97
2420	-3.97	-7.24	18.88
2430	-4.00	-7.16	19.24
2440	-3.99	-7.13	19.38
2450	-3.81	-6.81	20.85
2460	-3.85	-6.68	21.47
2470	-3.55	-6.34	23.24
2480	-3.12	-6.20	23.98
Average value	-3.90	-7.05	19.92

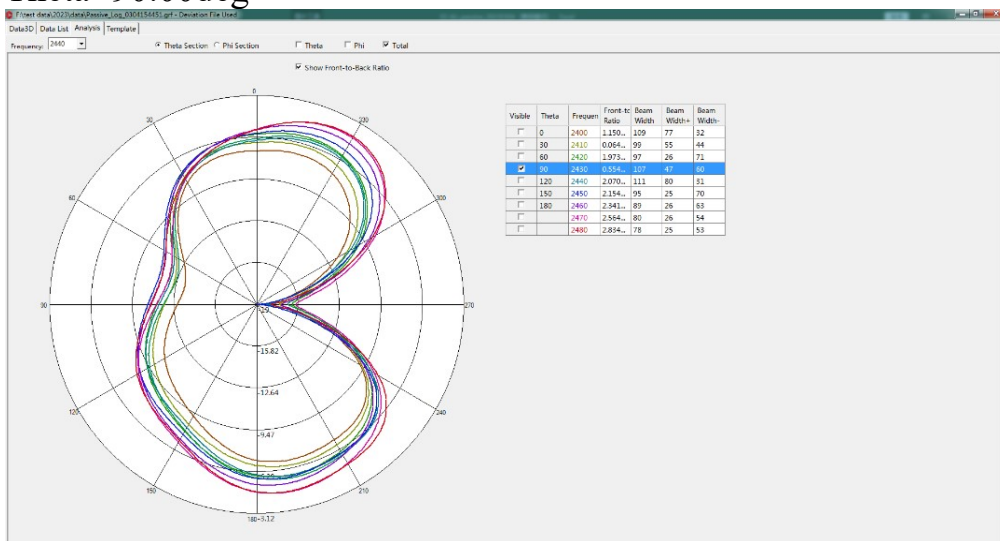


3D Antenna radiation pattern (R) :



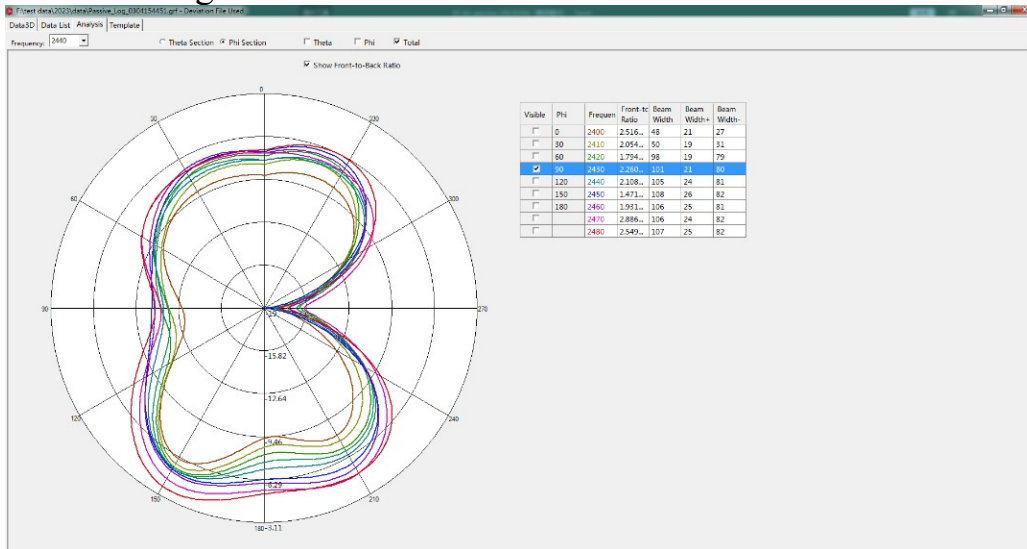
Antenna radiation pattern (R) :

Theta=90.00deg

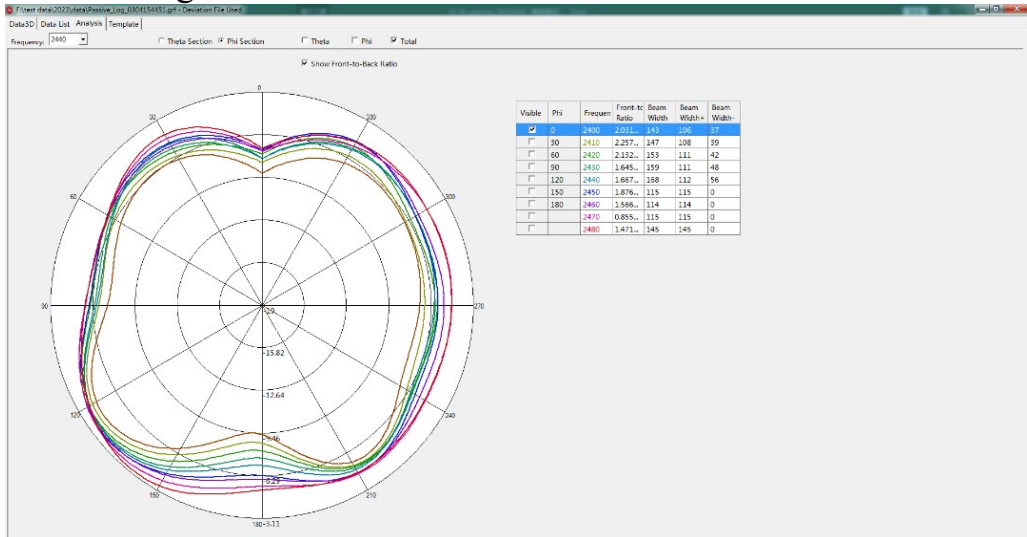




Phi=90.00deg



Phi=0.00deg

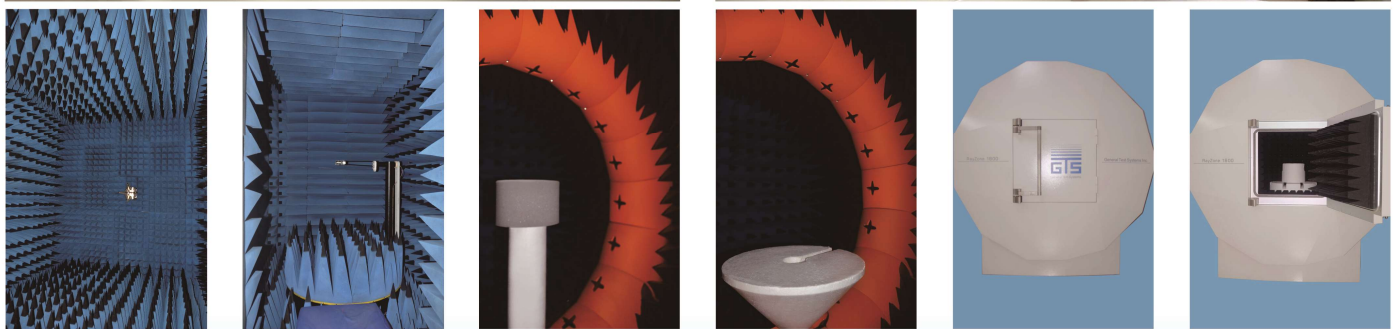




II: 3D Active test report of antenna

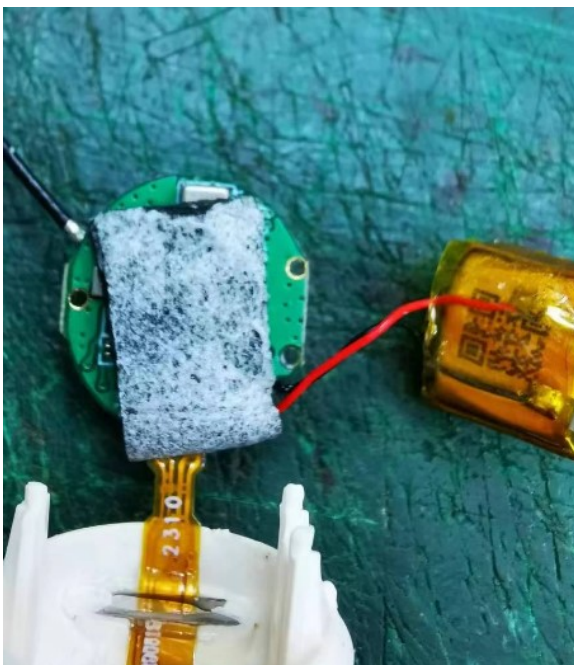
	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	5.7	-87.8
	CH 39	6.0	-89.1
	CH 78	5.0	-88.1

	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	5.1	-88.2
	CH 39	5.7	-89.8
	CH 78	5.1	-89.1

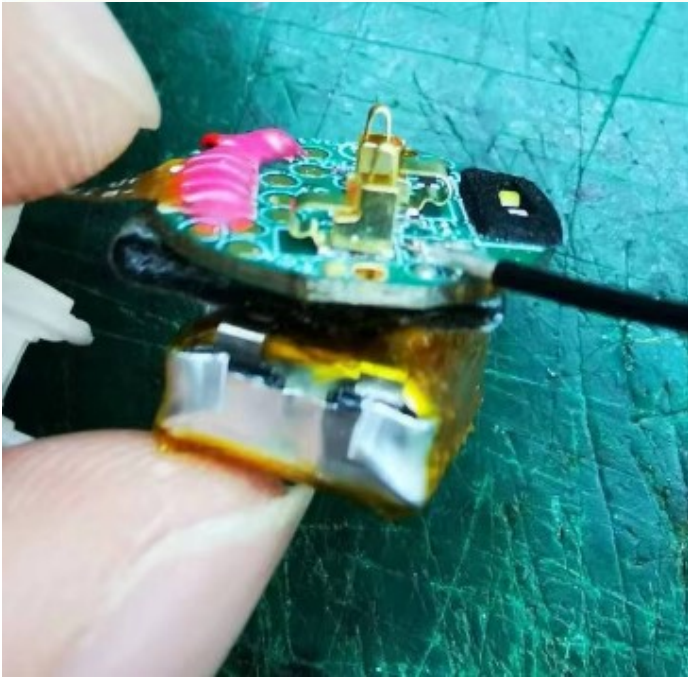


OTA Standard Chamber

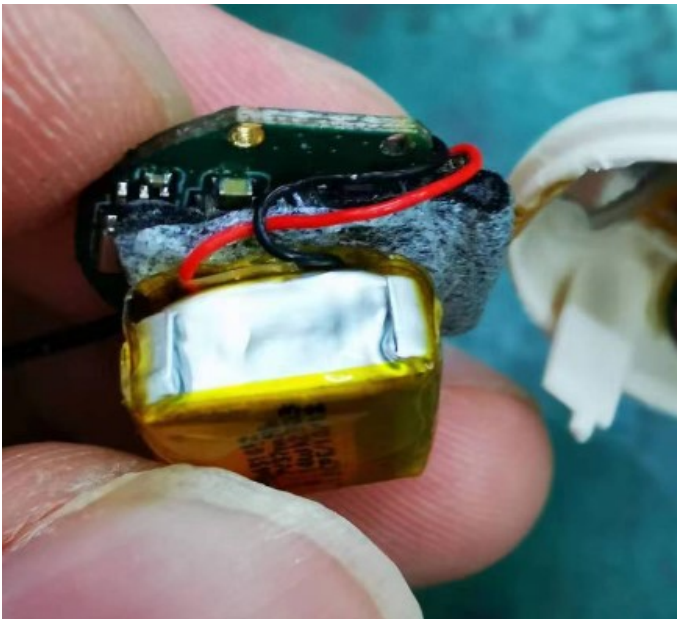
III: Installation precautions



1. Stick foam onto the motherboard. Cover devices such as chips and power inductors



2. Install the battery onto the motherboard, with the ear facing towards the feed point



3. Install the battery onto the motherboard, smooth the battery cables on the other side, and try to maintain the state as shown in the picture, so that it is located on the edge



IV: Structure file

