

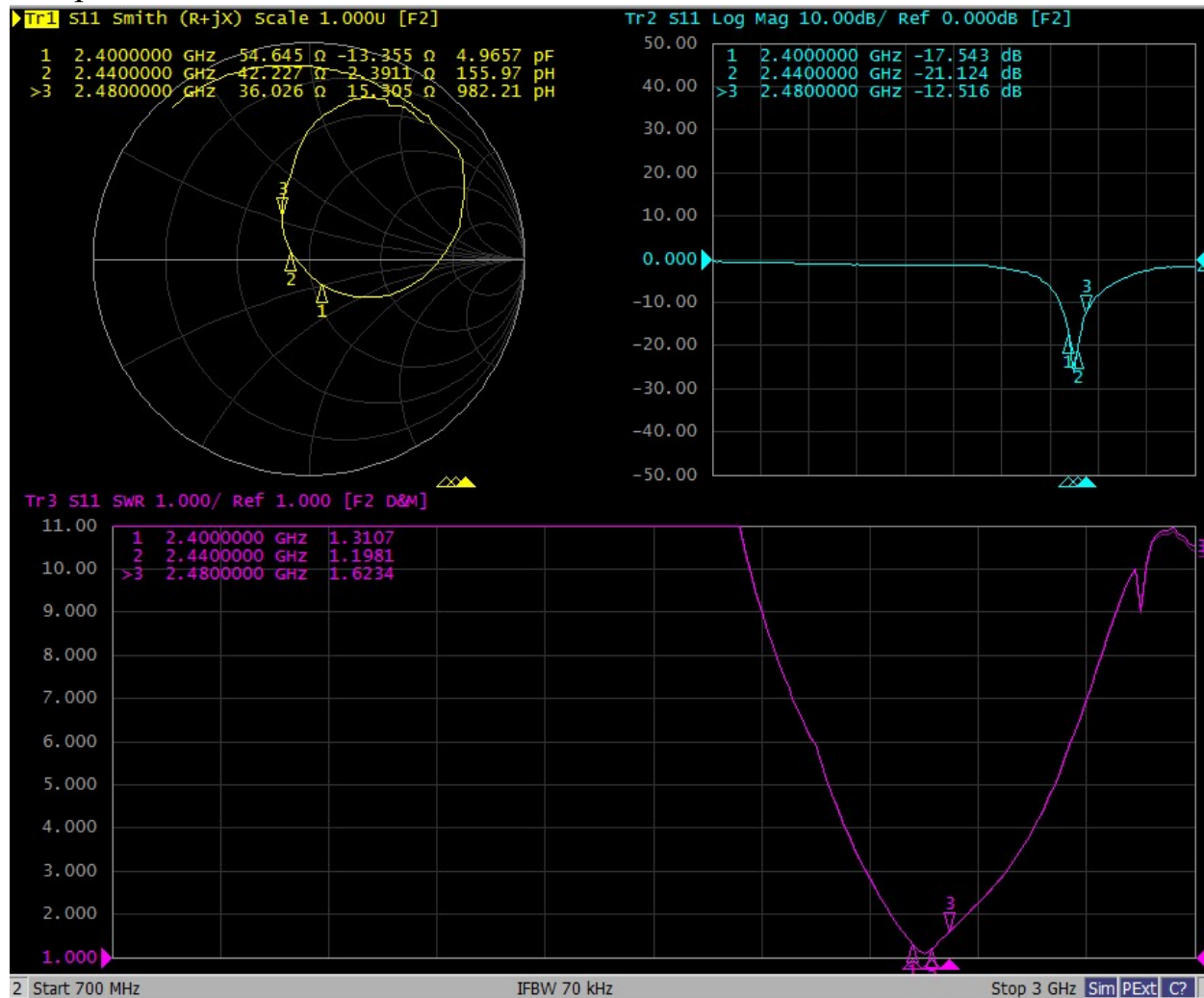


I: The report of passive data



Agilent E5071C

S11 parameter:





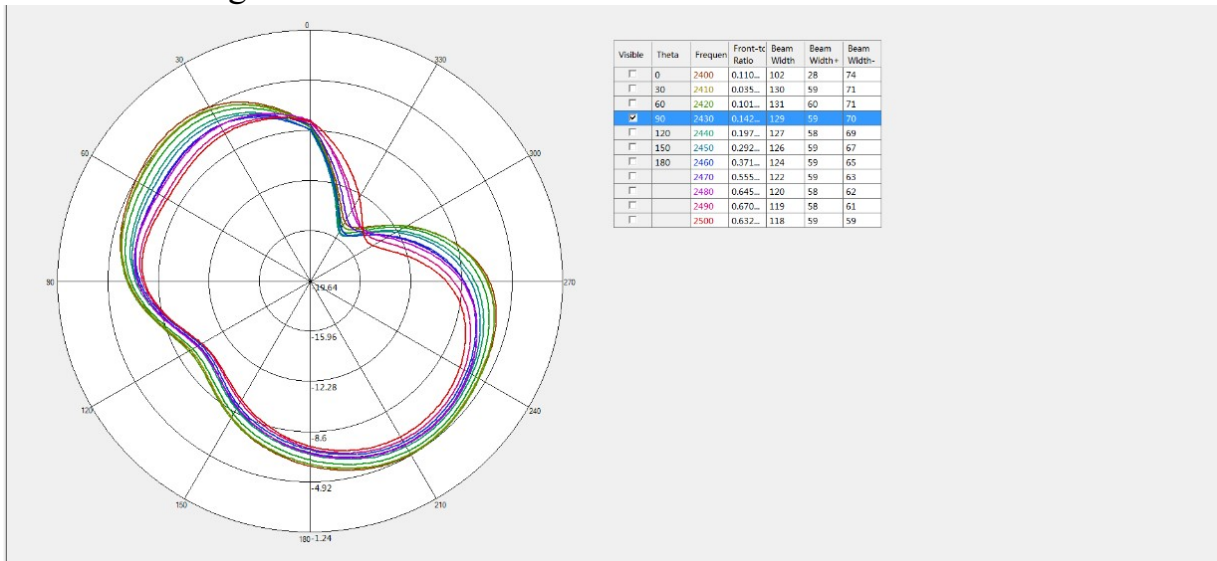
Efficiency:

Free space			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	21.07	-6.76	-1.96
2410	20.97	-6.78	-2.01
2420	21.05	-6.77	-2.05
2430	20.24	-6.94	-2.10
2440	19.44	-7.11	-2.19
2450	19.49	-7.10	-2.13
2460	18.79	-7.26	-2.19
2470	19.58	-7.08	-1.88
2480	19.72	-7.05	-1.79
Average value	20.04	-6.98	-2.03

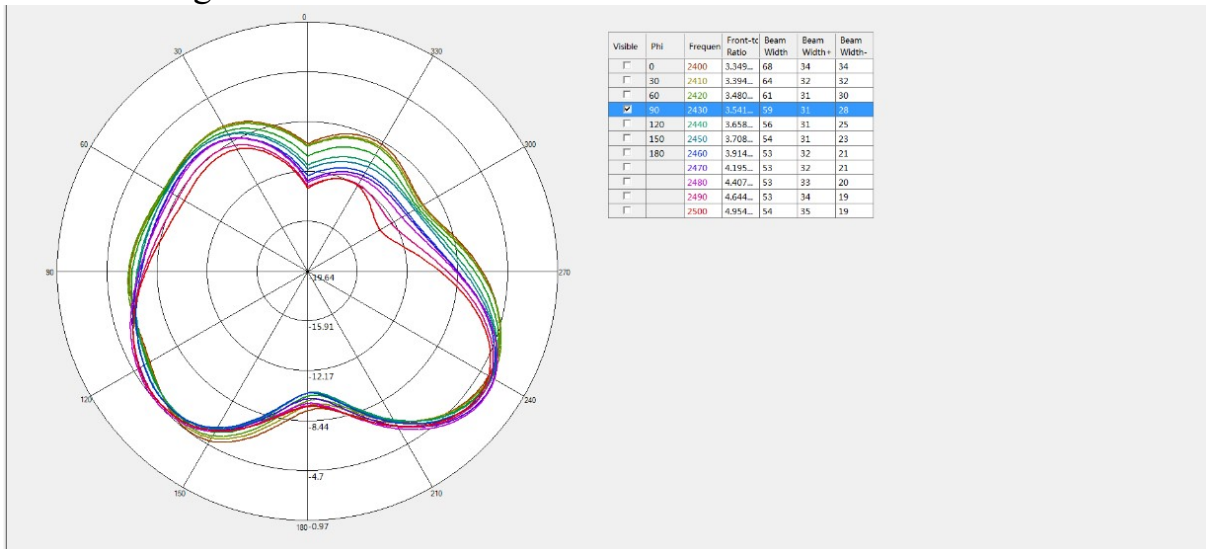
Headform			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	8.40	-10.76	-4.40
2410	8.42	-10.74	-4.32
2420	8.50	-10.71	-4.14
2430	8.21	-10.86	-4.25
2440	7.94	-11.00	-4.43
2450	8.15	-10.89	-4.33
2460	8.09	-10.92	-4.37
2470	8.67	-10.62	-4.08
2480	9.25	-10.34	-3.81
Average value	8.40	-10.76	-4.24



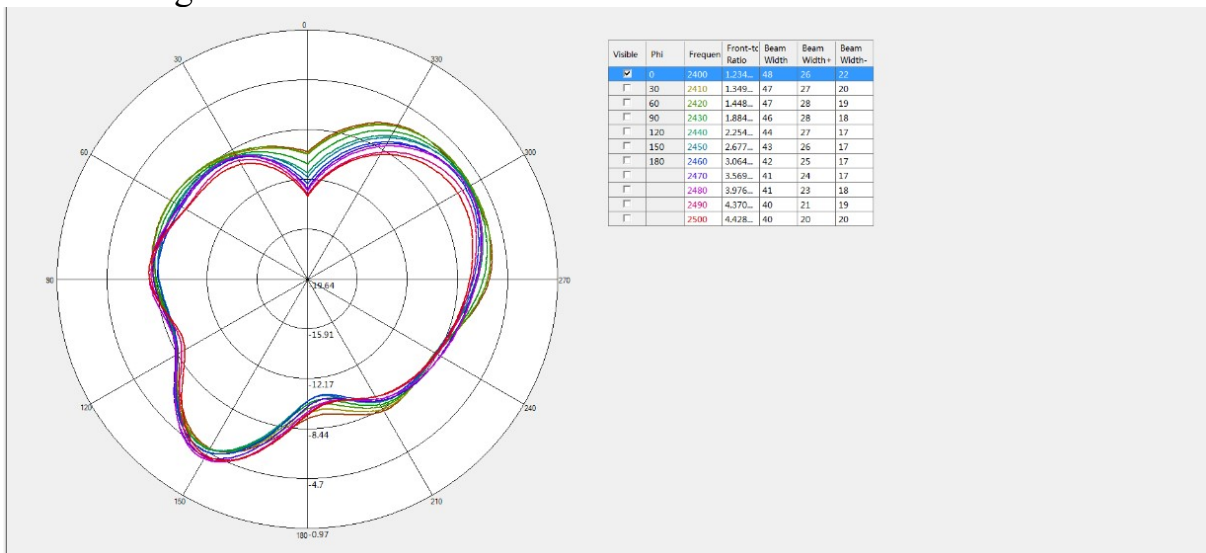
Antenna radiation pattern (Free space) :
Theta=90.00deg



Phi=90.00deg



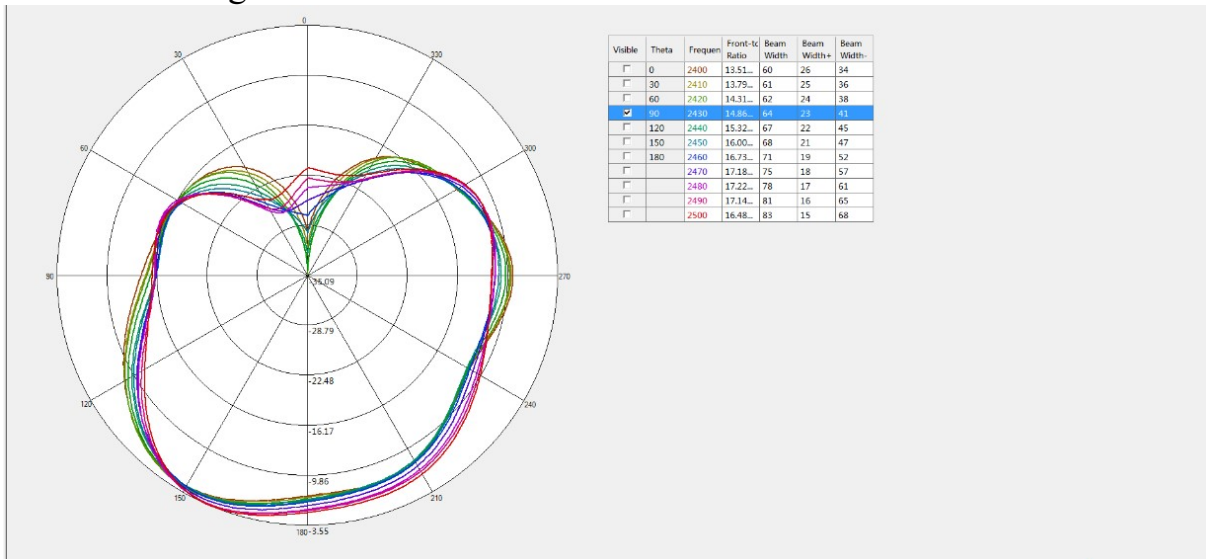
Phi=0.00deg



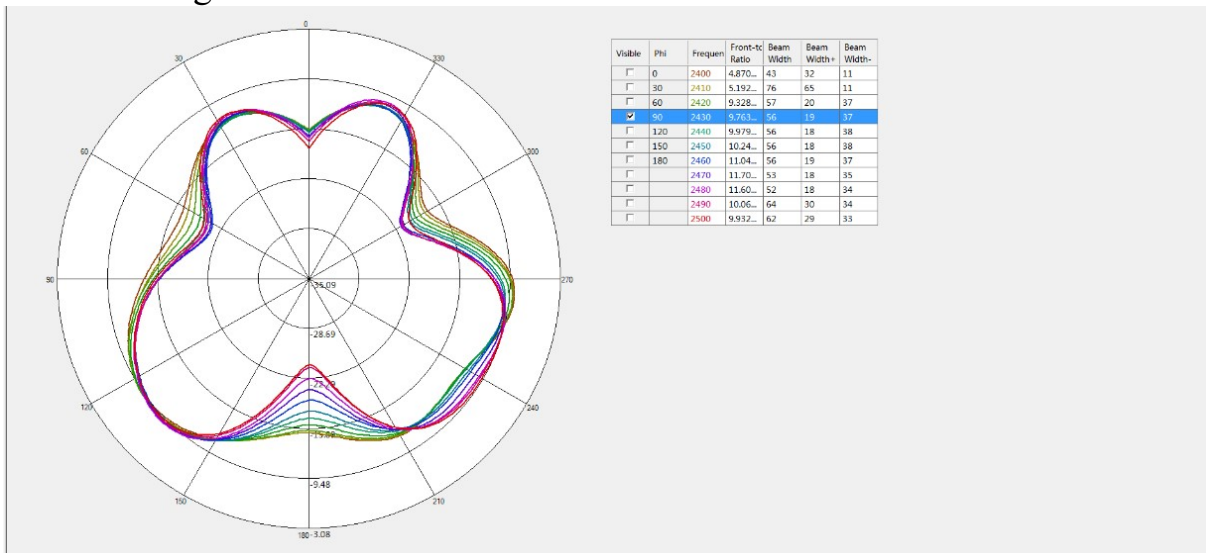


Antenna radiation pattern (Headform) :

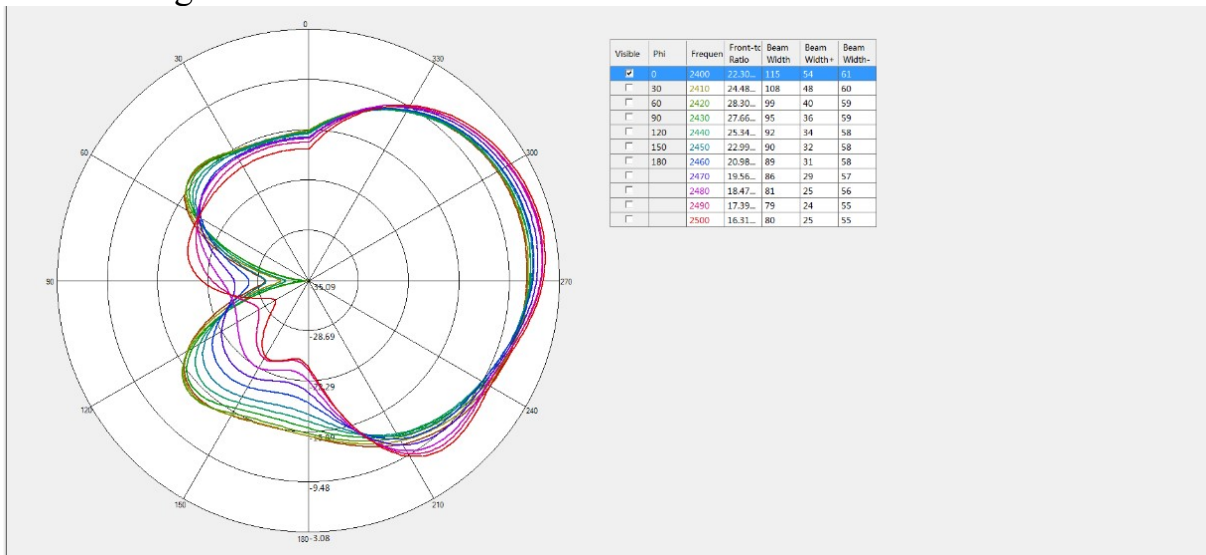
Theta=90.00deg



Phi=90.00deg

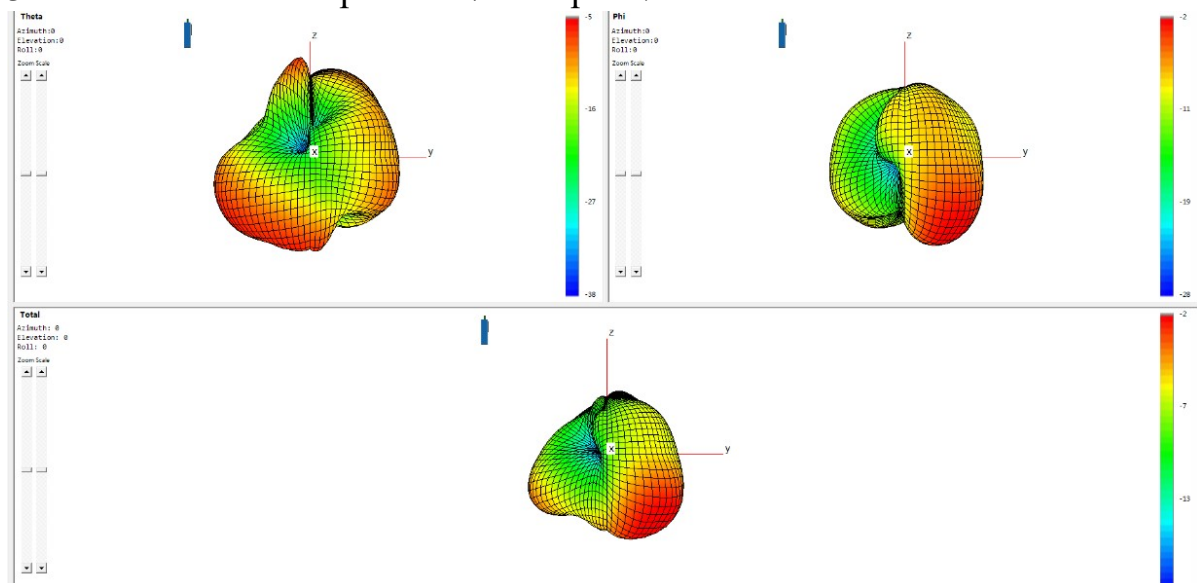


Phi=0.00deg

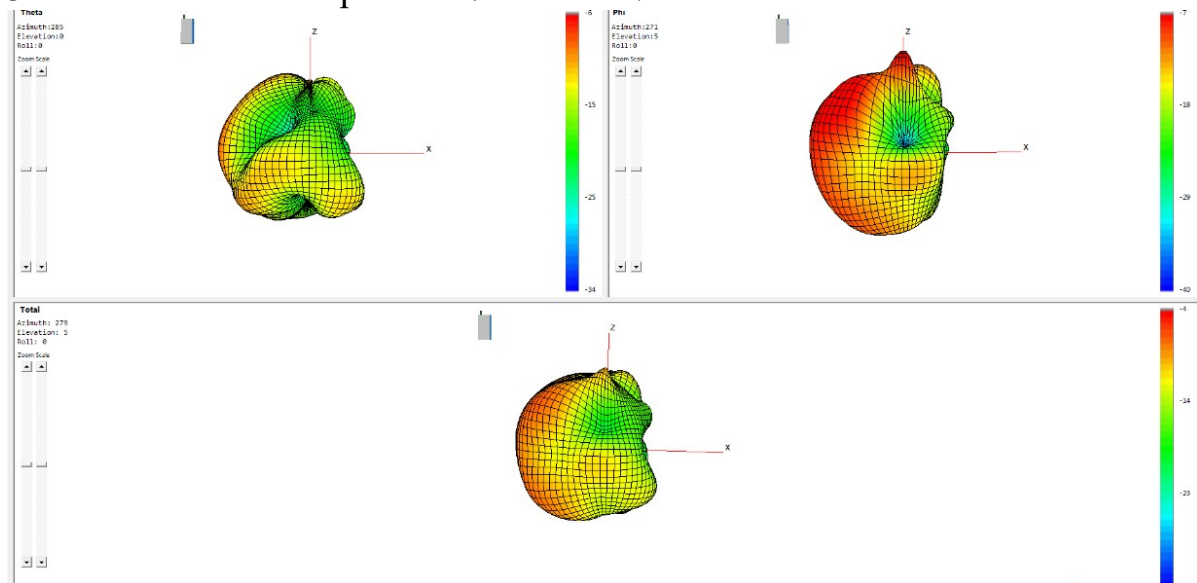




3D Antenna radiation pattern (Free space) :



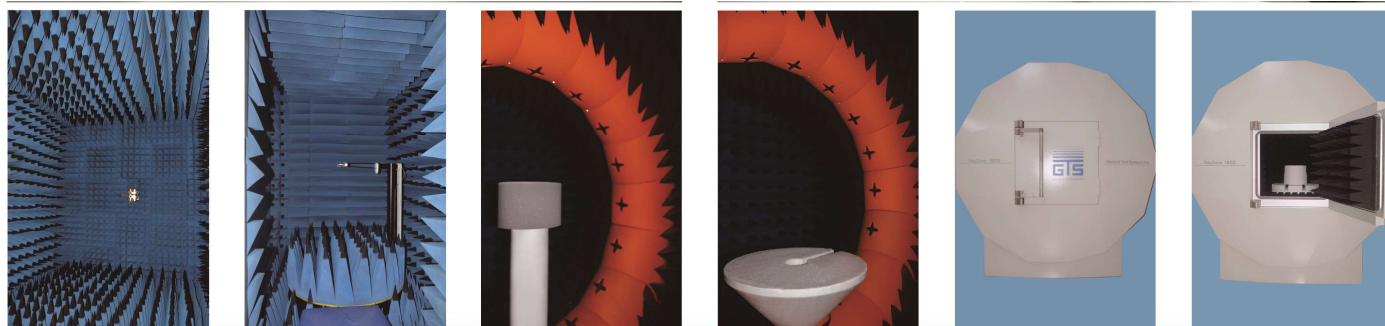
3D Antenna radiation pattern (Headform) :



II: 3D Active test report of antenna

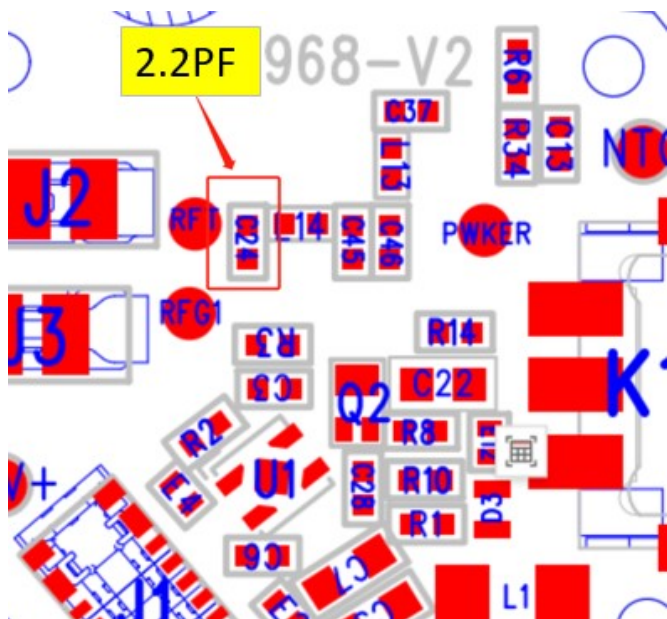
Free space	Channel	TRP (dBm)	TIS(dBm)
L	CH 0	8.7	-91.7
	CH 39	8.2	-91.5
	CH 78	7.9	-91.0

Headform	Channel	TRP(dBm)	TIS (dBm)
L	CH 0	3.0	-85.8
	CH 39	2.8	-85.7
	CH 78	2.5	-85.4



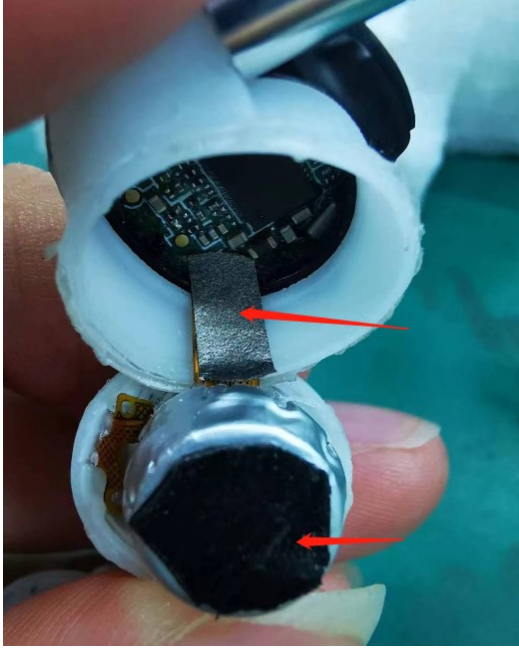
OTA Standard Chamber

III: Matching circuit





IV: Environmental treatment plan



1. Stick the same width of absorbing material near the BTB seat of the main FPC to the battery position.
2. Stick PET foam in the direction near the chip to separate the battery from the chip and prevent direct contact.



V: Structure file:

