



Antenna Part Specification

Project name:	D1102
Antenna name:	BT antenna
Antenna type:	monopole
Version:	V2.0
Date:	2026.8.3
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
2026.5.12	First edition	First edition	V1.0
2026.8.3	Antenna adjustment	Data Update	V2.0

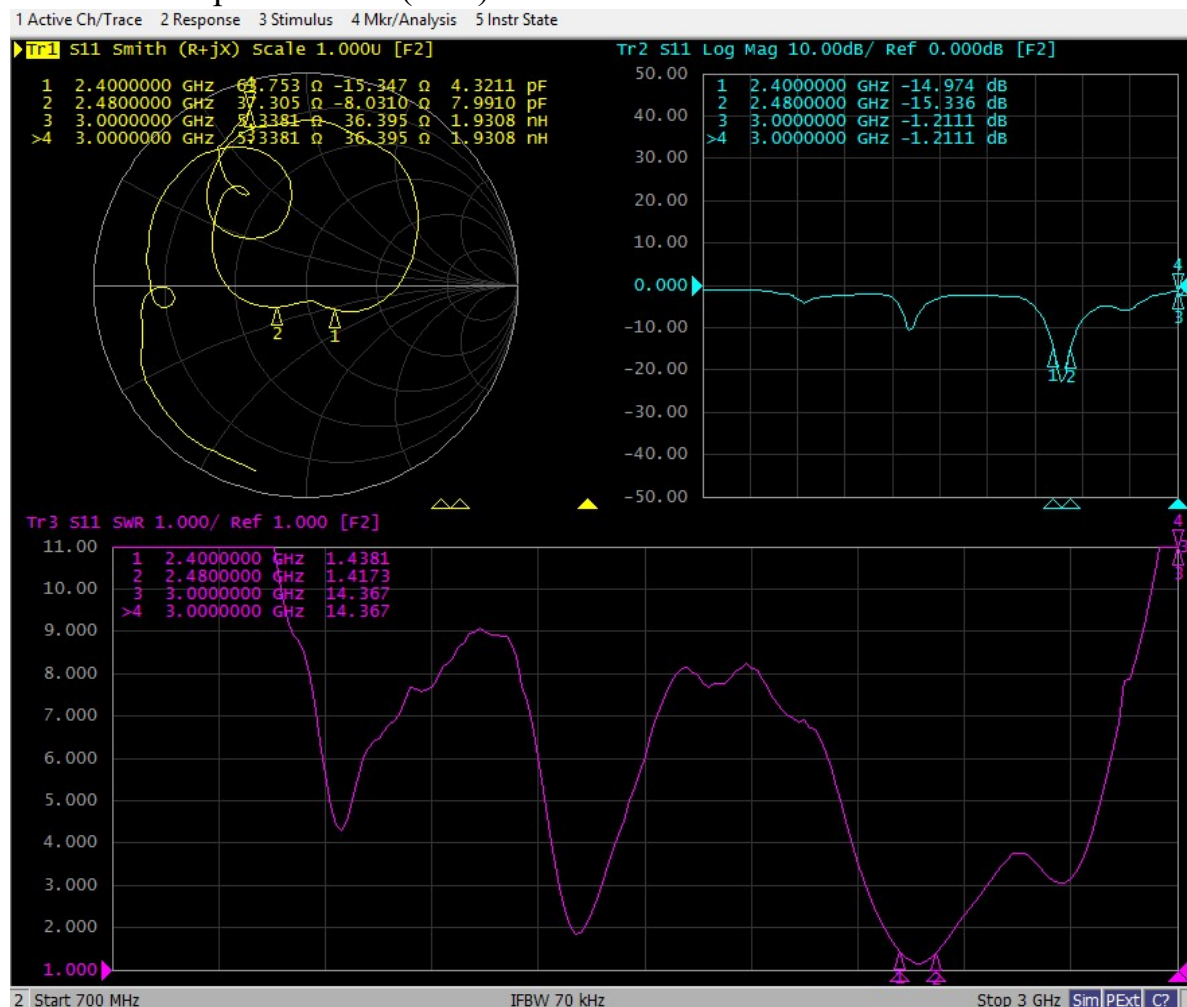


I: The report of passive data



Angilent E5071C

Antenna S11 parameter: (free)

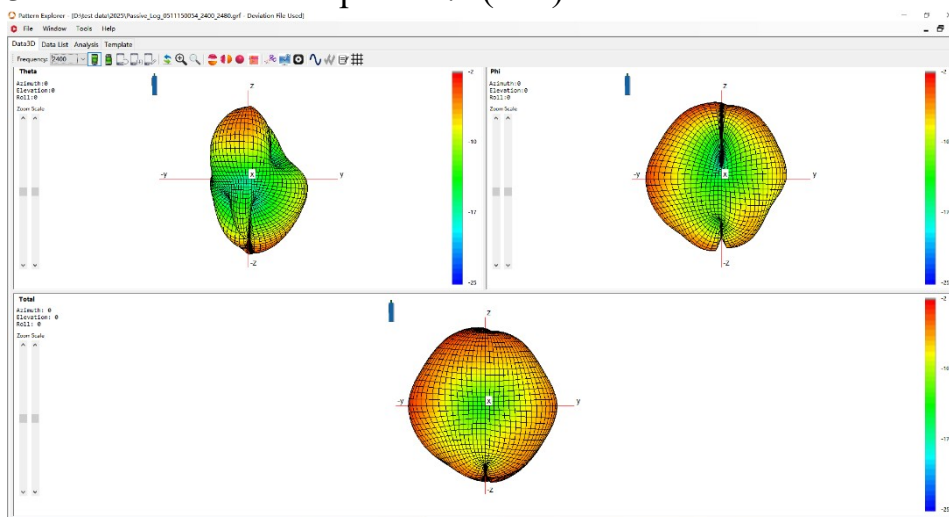




Antenna efficiency and gain: (free)

free			
Frequency(MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-5.9	-2.9	25.9
2410	-6.0	-3.1	25.4
2420	-6.1	-3.4	24.6
2430	-6.4	-3.8	23.2
2440	-6.6	-4.1	21.8
2450	-6.8	-4.3	20.8
2460	-7.0	-4.5	19.9
2470	-7.1	-4.7	19.3
2480	-7.1	-4.7	19.6
average	-6.54	-3.94	22.29

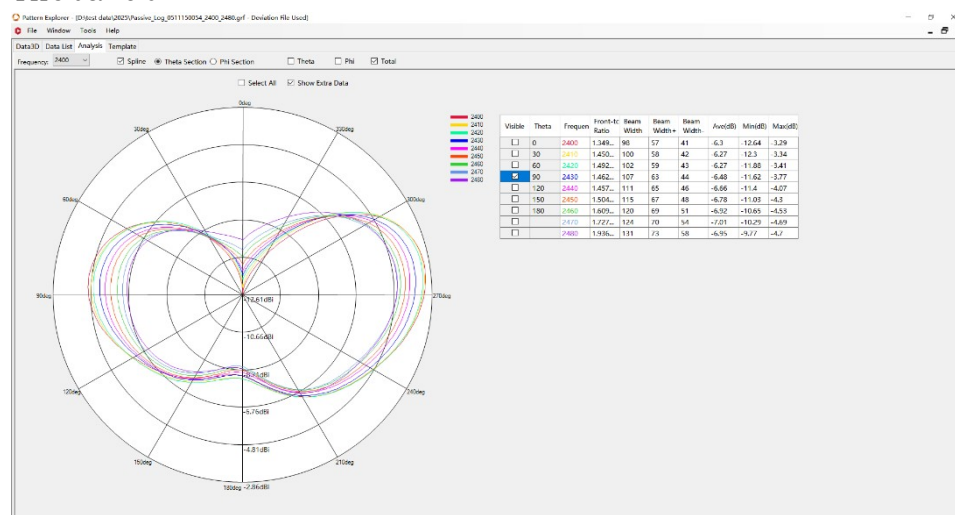
3D Antenna radiation pattern: (free)



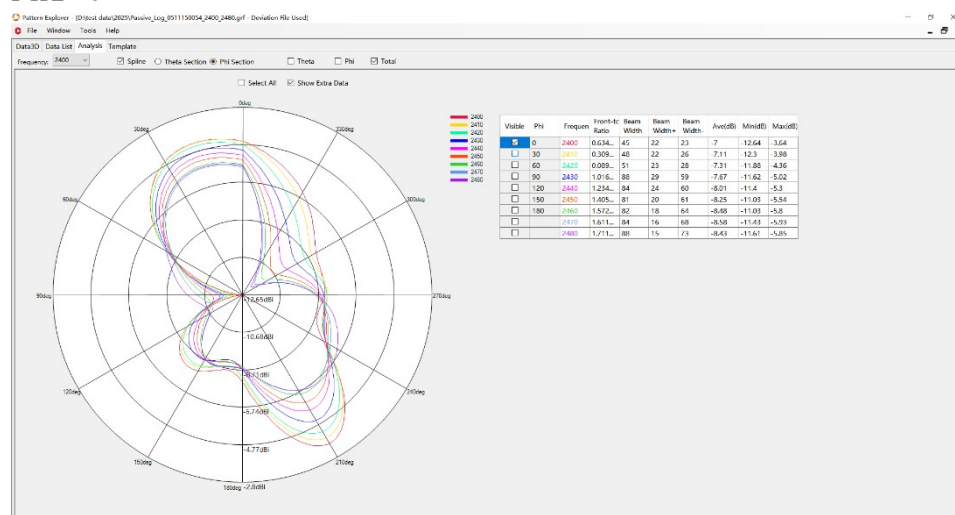


2D Antenna radiation pattern: (free)

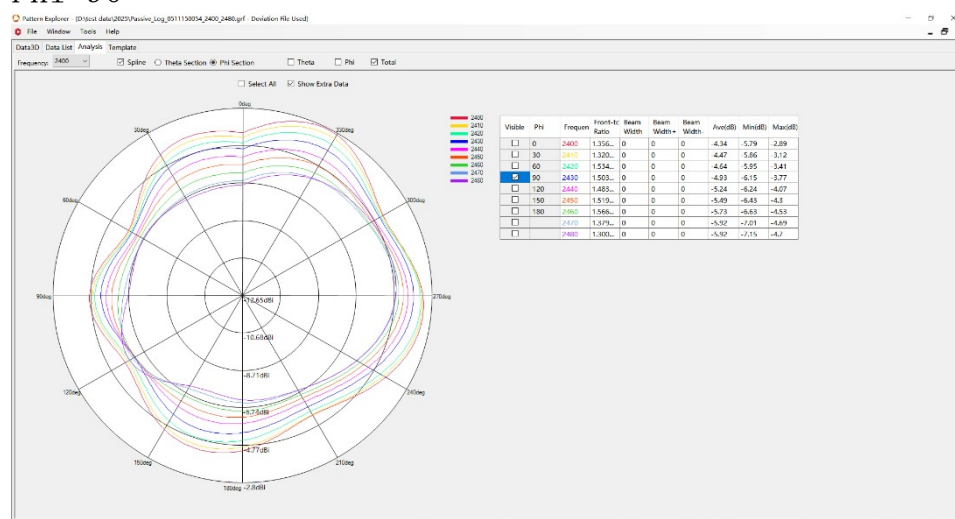
Theta=90°



Phi=0°



Phi=90°

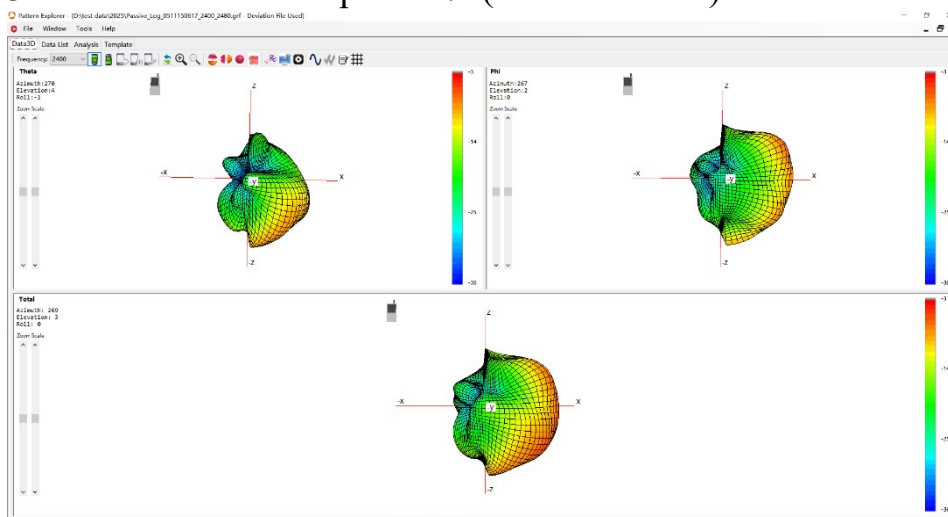




Antenna efficiency and gain: (head model -L)

head model -L			
Frequency(MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-11.8	-3.9	6.6
2410	-11.9	-4.1	6.5
2420	-12.0	-4.3	6.3
2430	-12.3	-4.7	5.9
2440	-12.6	-5.1	5.5
2450	-12.9	-5.5	5.2
2460	-13.2	-6.0	4.8
2470	-13.5	-6.6	4.5
2480	-13.6	-7.0	4.4
average	-12.64	-5.24	5.51

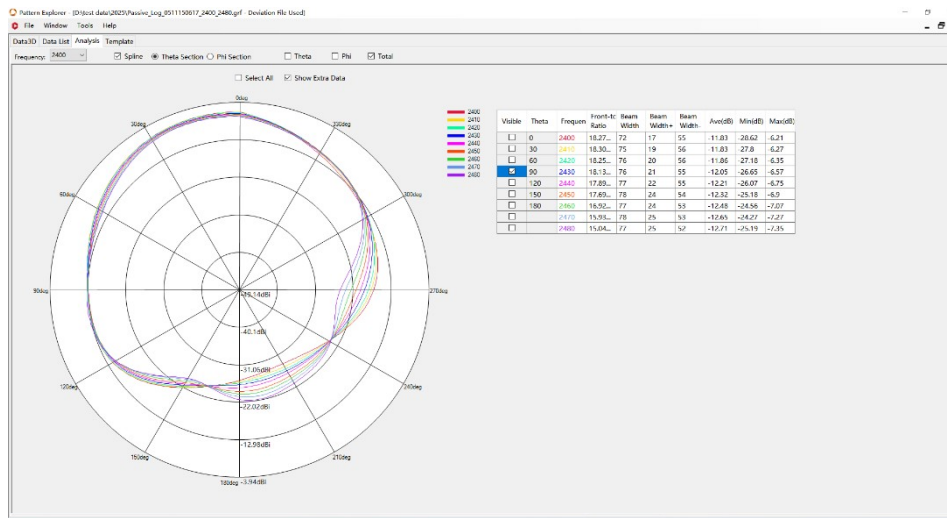
3D Antenna radiation pattern: (head model -L)



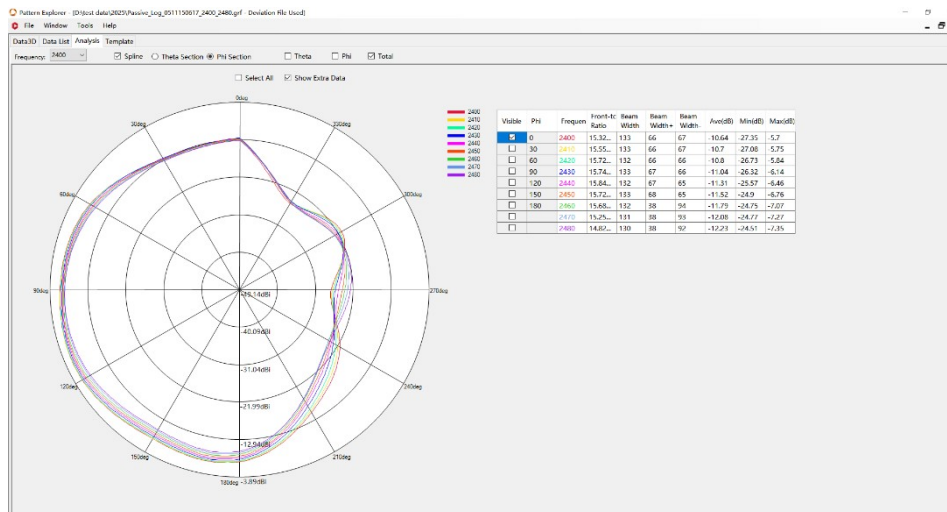


2D Antenna radiation pattern: (head model-L)

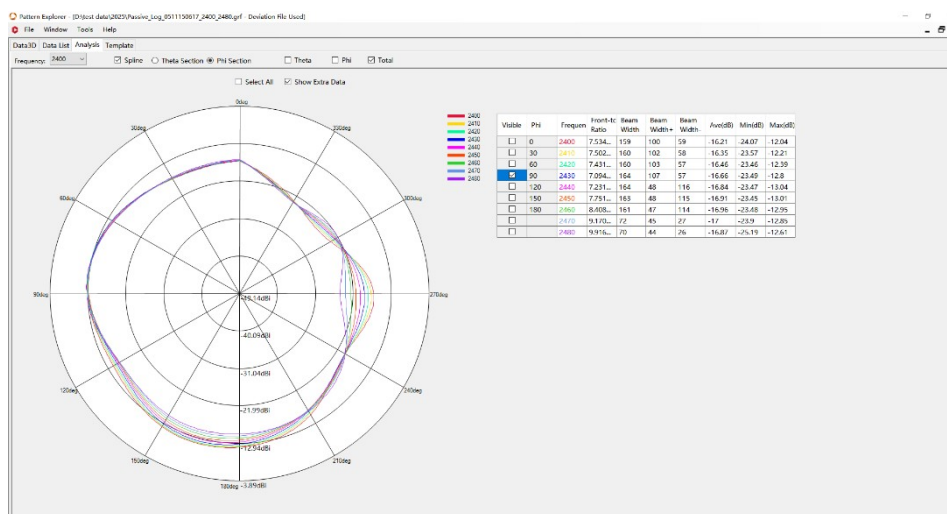
Theta=90°



Phi=0°



Phi=90°

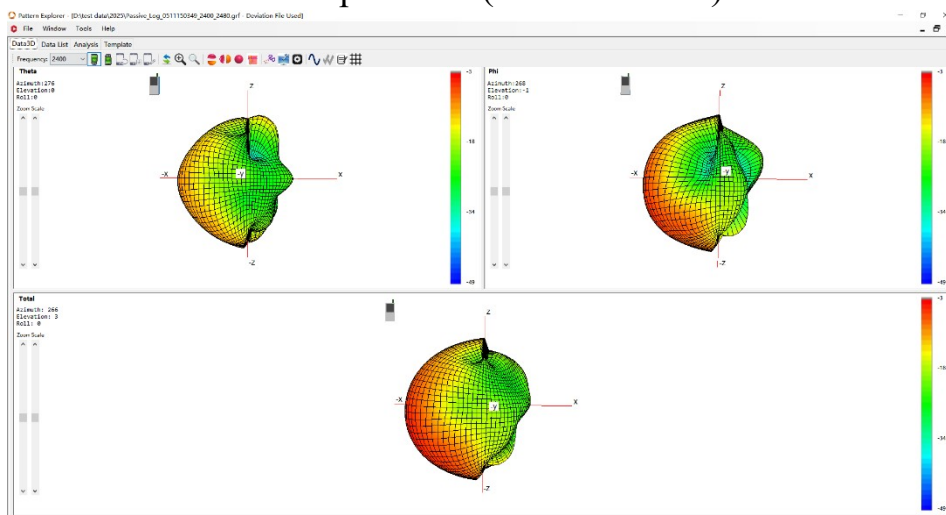




Antenna efficiency and gain: (head model -R)

head model -R			
Frequency(MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-11.1	-3.6	7.9
2410	-11.2	-3.8	7.6
2420	-11.4	-3.9	7.3
2430	-11.7	-4.2	6.8
2440	-12.0	-4.5	6.4
2450	-12.1	-4.7	6.2
2460	-12.3	-4.9	5.9
2470	-12.5	-5.2	5.7
2480	-12.5	-5.2	5.7
average	-11.84	-4.45	6.59

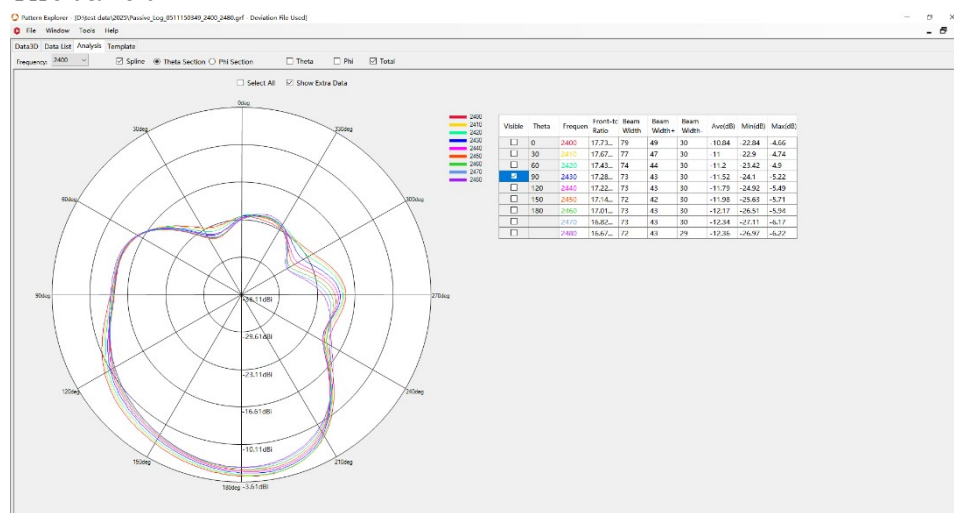
3D Antenna radiation pattern: (head model -R)



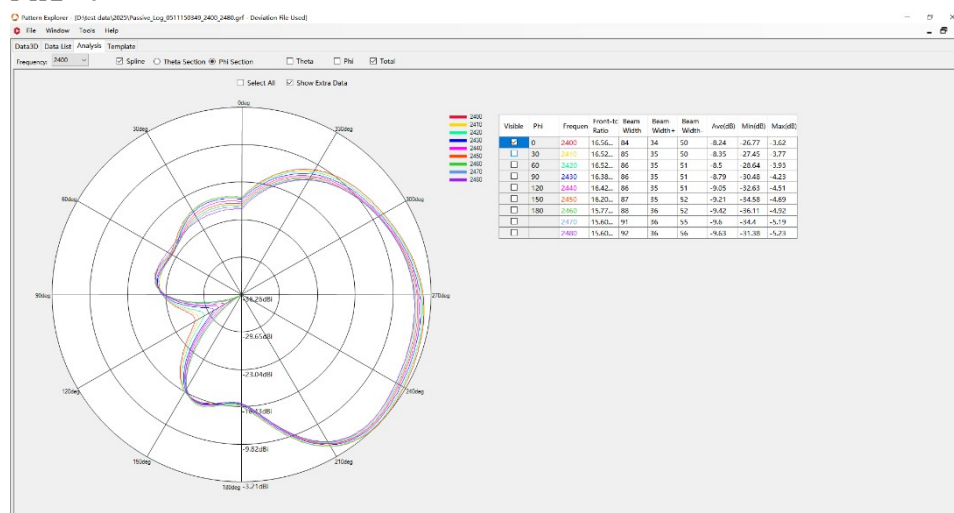


2D Antenna radiation pattern: (head model -R)

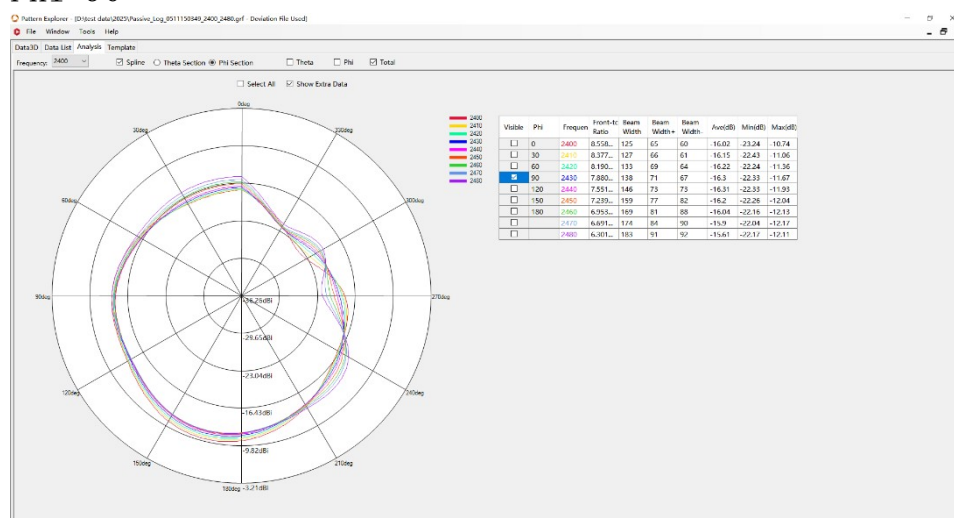
Theta=90°



Phi=0°



Phi=90°

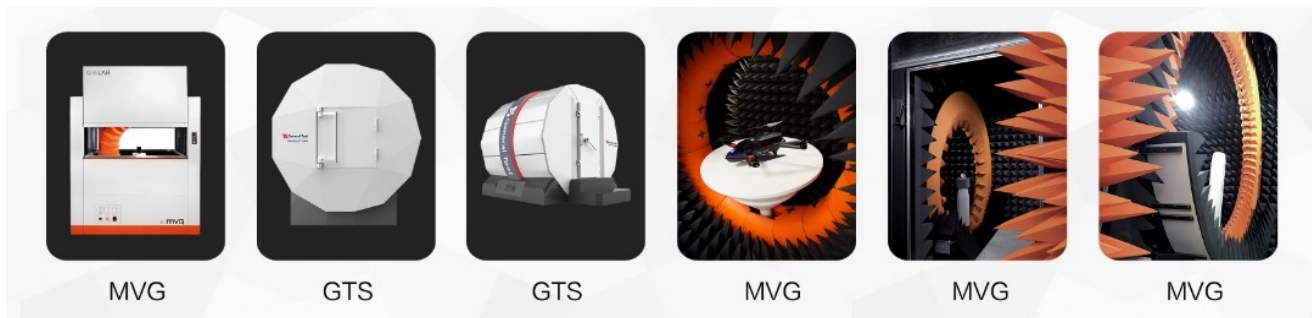




II: Active test data

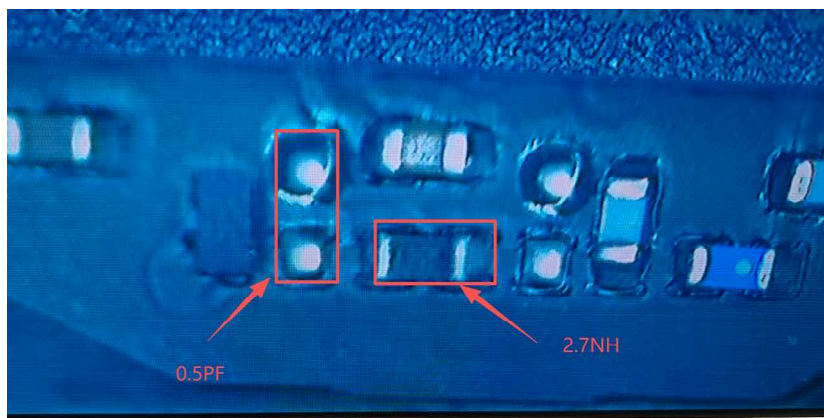
	free			head model	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	6.1	-89.2	2.47	-85.38
	CH 39	6.7	-89.4	3.42	-85.95
	CH 78	6.7	-89.3	3.84	-86.34

	free			head model	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	CH 0	4	-87	1.92	-84.15
	CH 39	4.4	-87.4	3.07	-84.89
	CH 78	5	-88	3.6	-85.32



OTA Standard Chamber

III: Antenna matching





IV: Antenna structure diagram file

