

Approval	Verify	Issue

Antenna Specification

630810000065

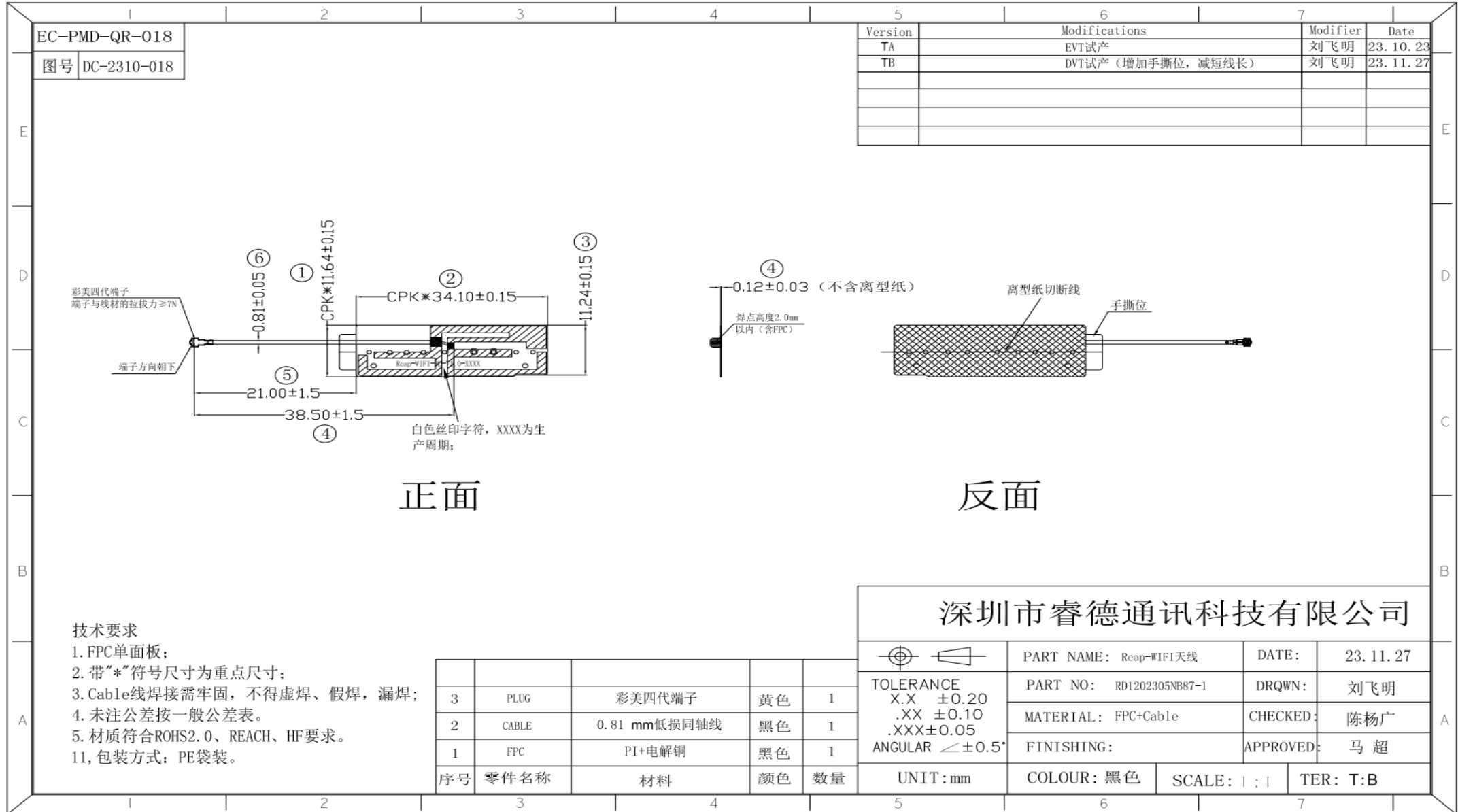
2024/02/21

Etheta Communication Technoloies (china) Co., LTD.

1. Specification

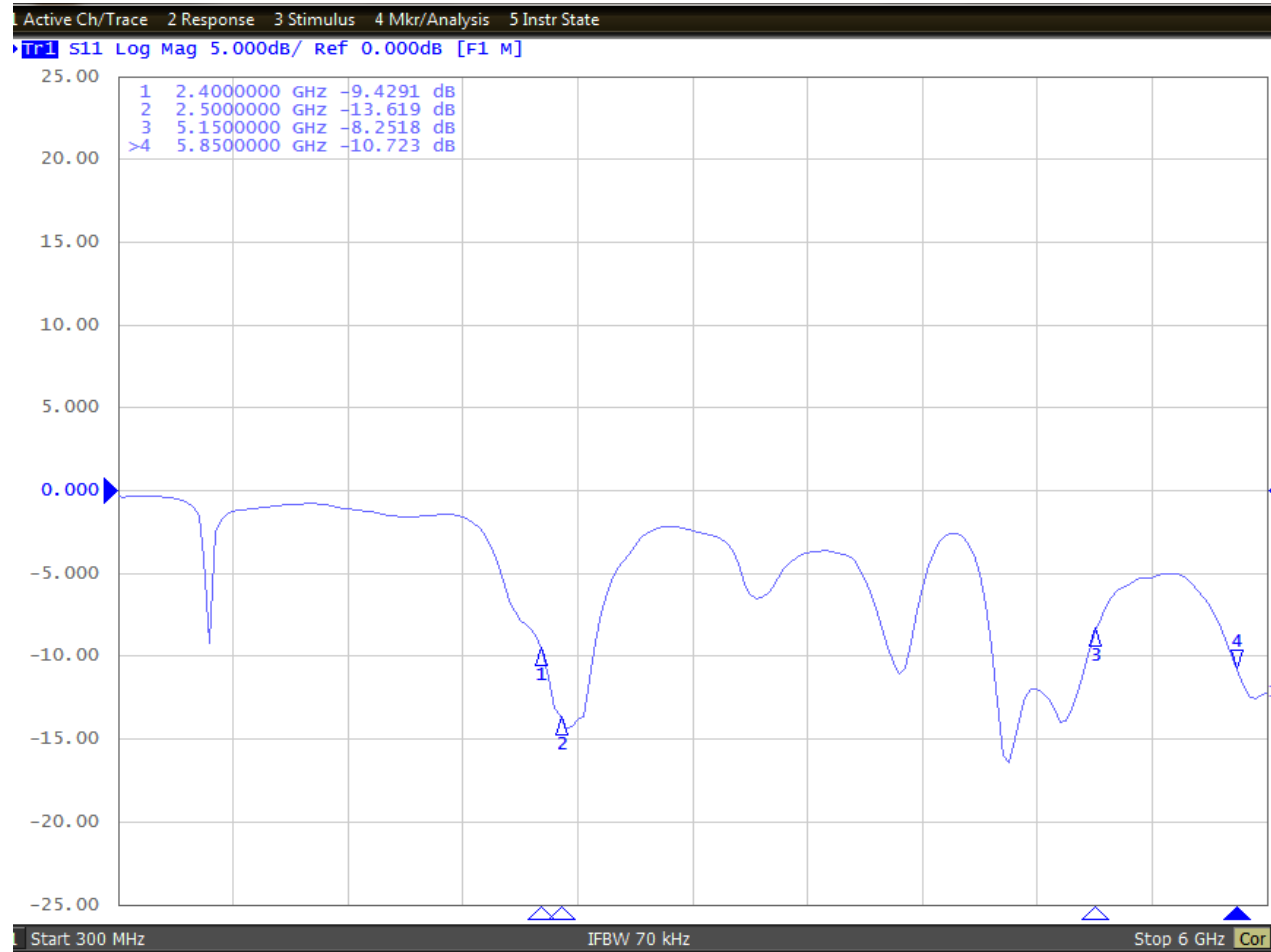
Item	Description
Manufacturer	Etheta Communication Technoloies
Product Name	Reap
Product Number	630810000065
Band Frequency	Wifi2.4G/5G 2400 ~ 2500[MHz] 5150 ~ 5850[MHz]
Antenna Type	PIFA
Peak Gain	ANT1 WIFI2.4G : 2.2dBi WIFI5.0G : 2.6dBi

2. 2D Drawing



3.Return Loss

Wifi 2.4G/5G



4.Efficiency / Gain

Freq (MHz)	Effi (%)	Effi (dB)	MaxGain (dBi)
2400	60%	-2.20	2.09
2410	61%	-2.17	2.20
2420	60%	-2.23	2.18
2430	60%	-2.19	2.08
2440	61%	-2.16	2.11
2450	60%	-2.21	2.20
2460	61%	-2.16	2.11
2470	62%	-2.08	2.02
2480	62%	-2.05	1.99
2490	63%	-1.98	1.96
2500	65%	-1.85	2.03

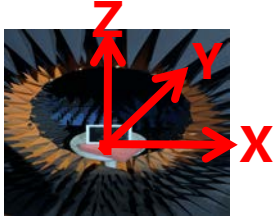
Freq (MHz)	Effi (%)	Effi (dB)	MaxGain (dBi)
5150	48%	-3.22	2.47
5200	47%	-3.30	1.90
5250	44%	-3.60	1.73
5300	43%	-3.65	1.78
5350	41%	-3.83	1.77
5400	41%	-3.85	2.05
5450	41%	-3.85	2.55
5500	40%	-4.01	2.25
5550	41%	-3.87	2.37
5600	42%	-3.77	2.48
5650	45%	-3.49	2.01
5700	46%	-3.38	2.20
5750	50%	-3.02	2.43
5800	52%	-2.81	2.47
5850	49%	-3.14	2.5

5. TRP/TIS

2.4G-B模-11M	Wifi 2.4G		
	1	6	11
TRP (dBm)	18.34	18.46	18.6
TIS (dBm)	-85.9	-85.32	-86.52

5G-A模-54M	Wifi5G		
	36	60	165
TRP (dBm)	12.81	13.19	13.61
TIS (dBm)	-68.96	-72.12	-70.57

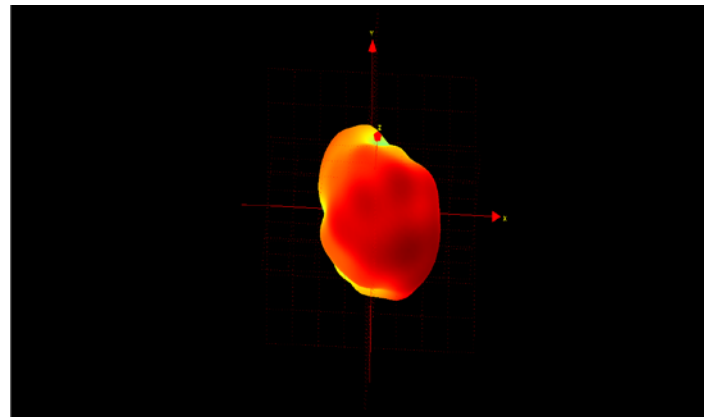
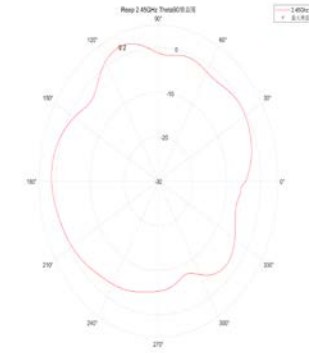
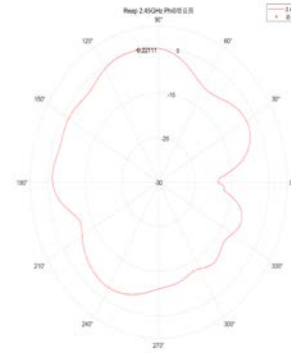
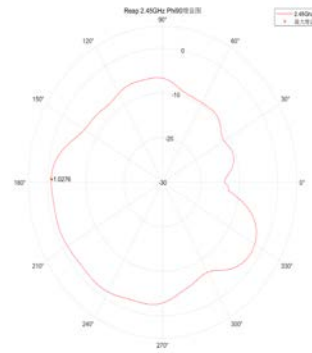
6. Radiation Pattern 2D/3D 2450 [MHz]



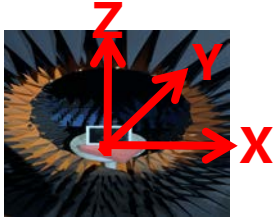
Frequency	2450MHz		
Gain	2.2 dBi		
Phi=0			

PHI=90

Theta=90



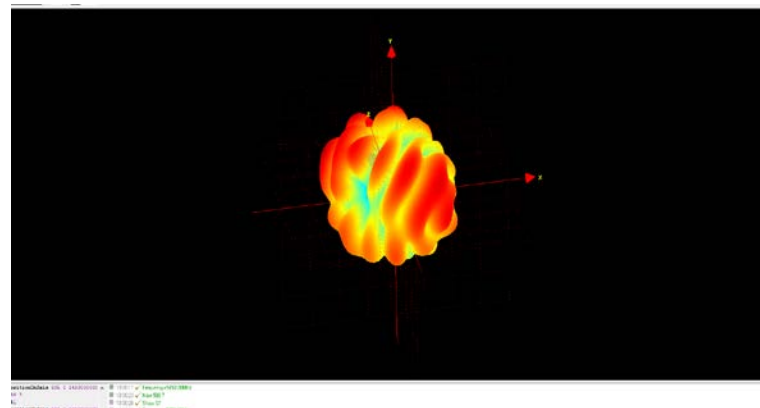
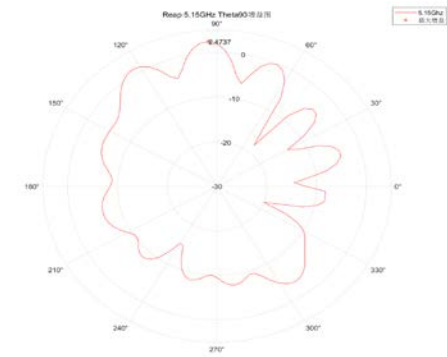
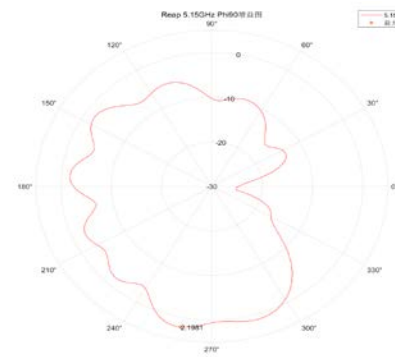
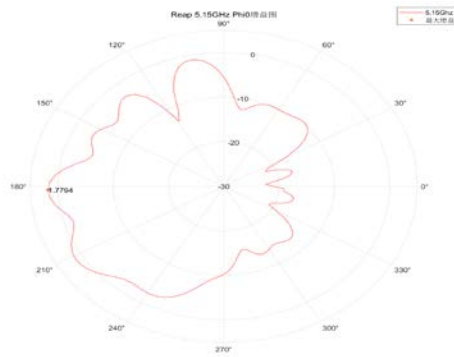
6. Radiation Pattern 2D/3D 5150 [MHz]



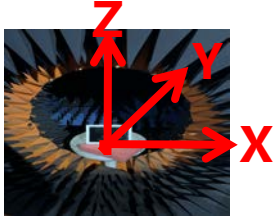
Frequency	5150MHz		
Gain	2.47 dBi		
Phi=0			

PHI=90

Theta=90



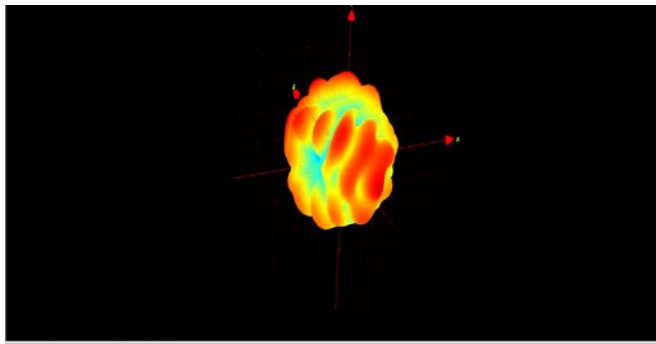
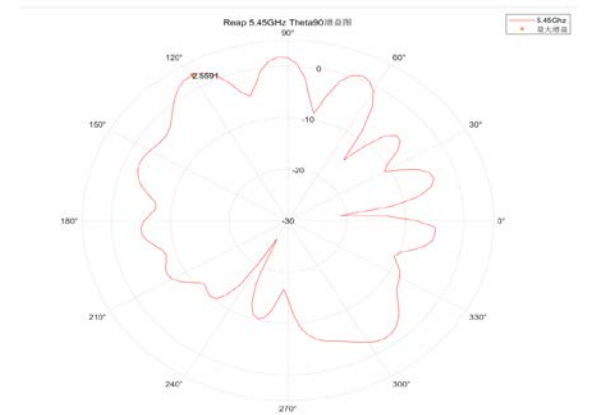
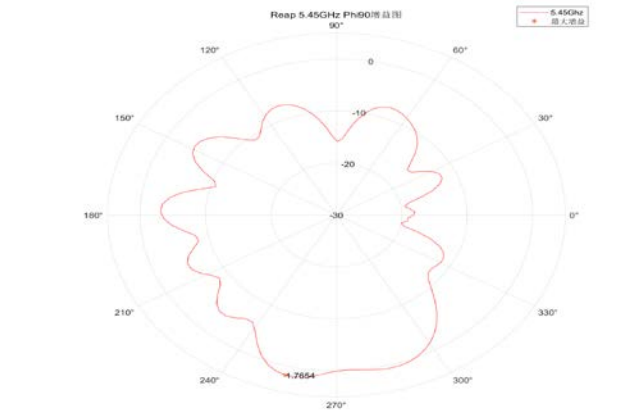
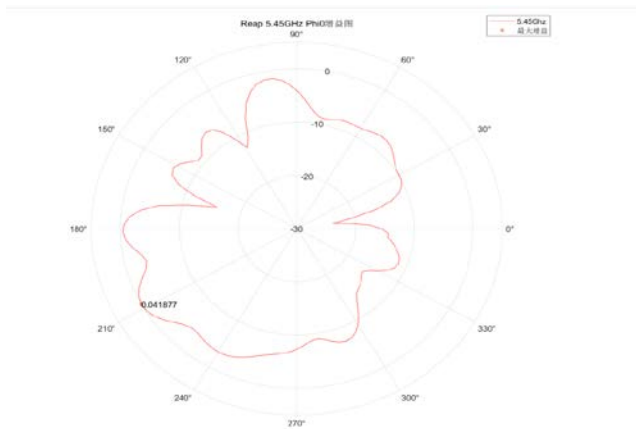
6. Radiation Pattern 2D/3D 5450 [MHz]



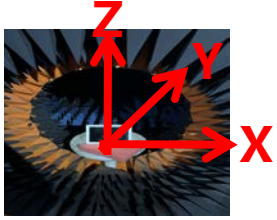
Frequency	5450MHz		
Gain	2.55 dBi		
Phi=0			

PHI=90

Theta=90



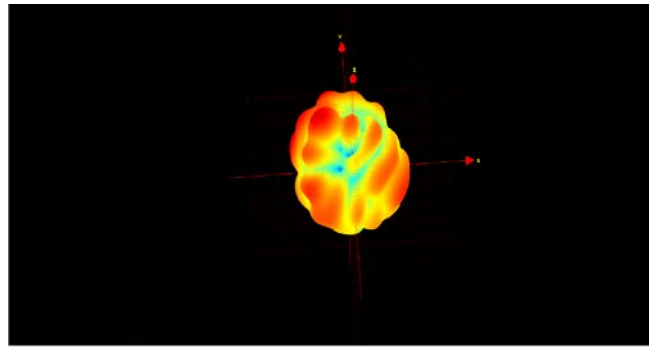
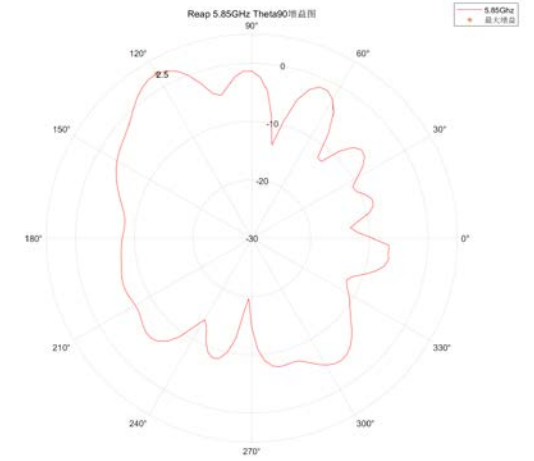
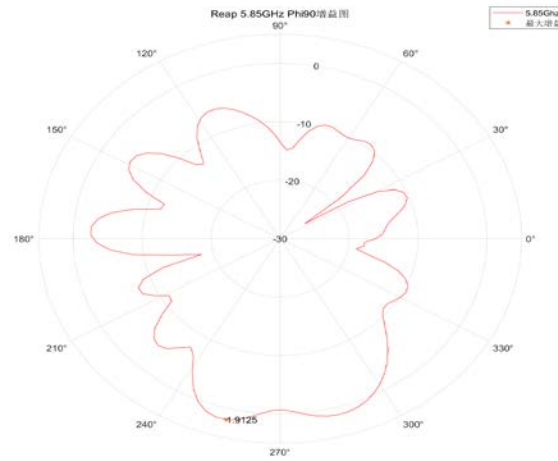
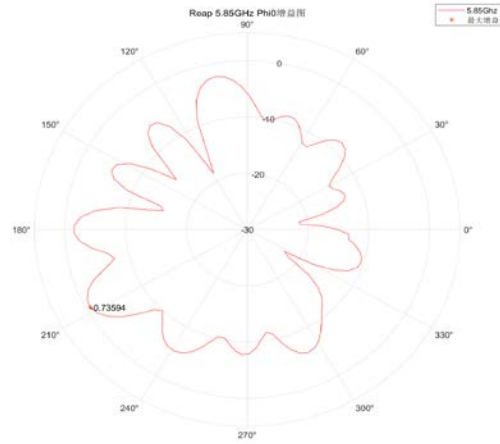
6. Radiation Pattern 2D/3D 5850 [MHz]

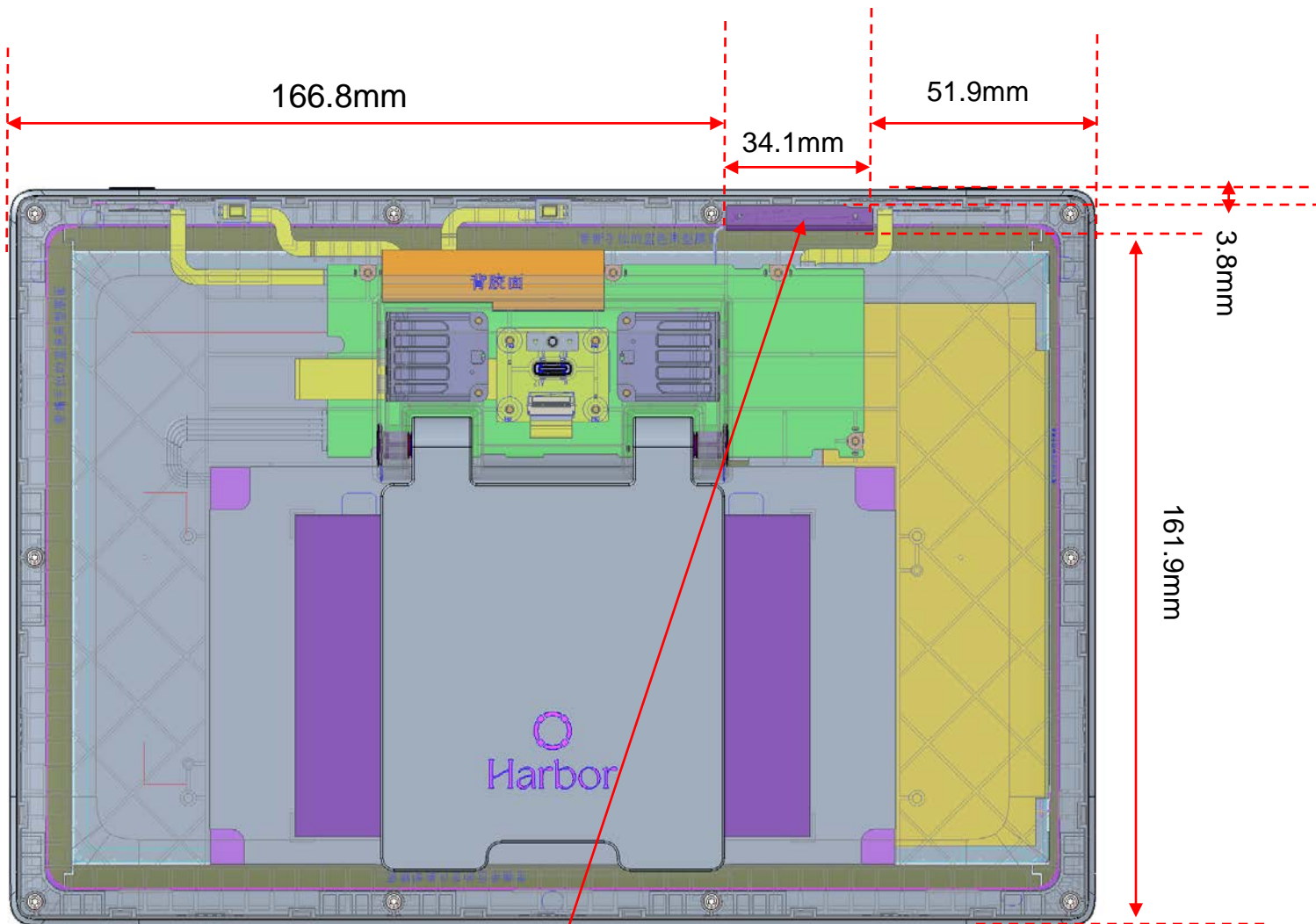


Frequency	5850MHz		
Gain	2.5 dBi		
Phi=0			

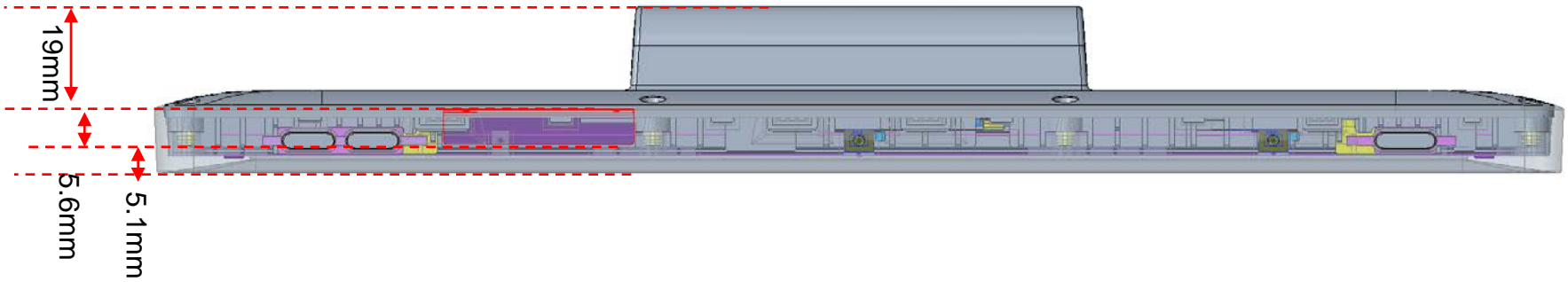
PHI=90

Theta=90





WIFI Ant



WIFI Ant