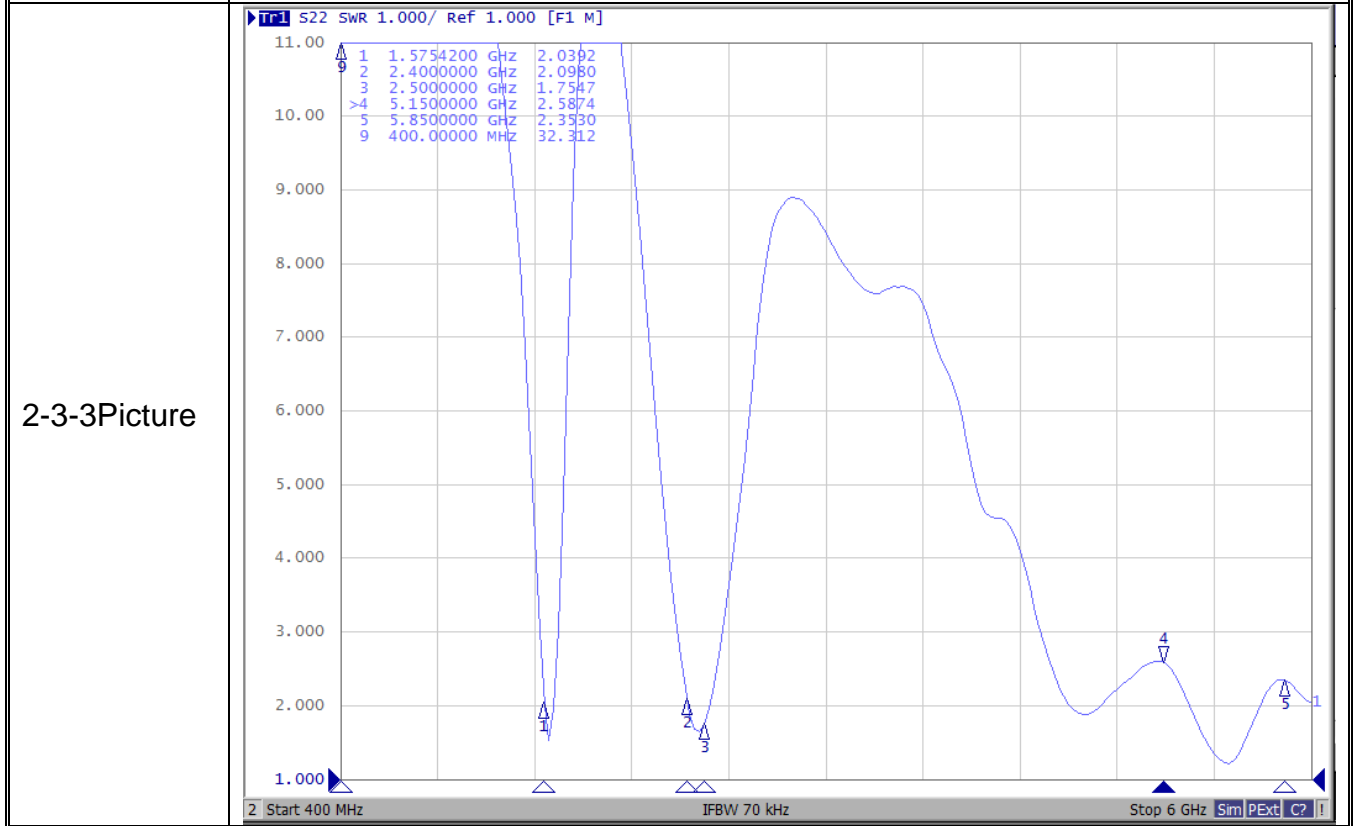


2-3. VSWR ,Efficiency ,Matching and Active Data :

2-3.1 VSWR:

Frequency Band	1575.42	2400	2500	
2-3-1. Typical Value:	≤ 2	≤ 3	≤ 3.5	

2-3-2 Measuring Method	<ol style="list-style-type: none"> 1. A 50Ω coaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm.
------------------------	---



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

CHECKED BY : 肖坤雄

DESIGNED BY : 苏汉鹏

APPROVED BY : 王伟

TITLE : H5028-GBW-ANTENNA-V1.0Specification


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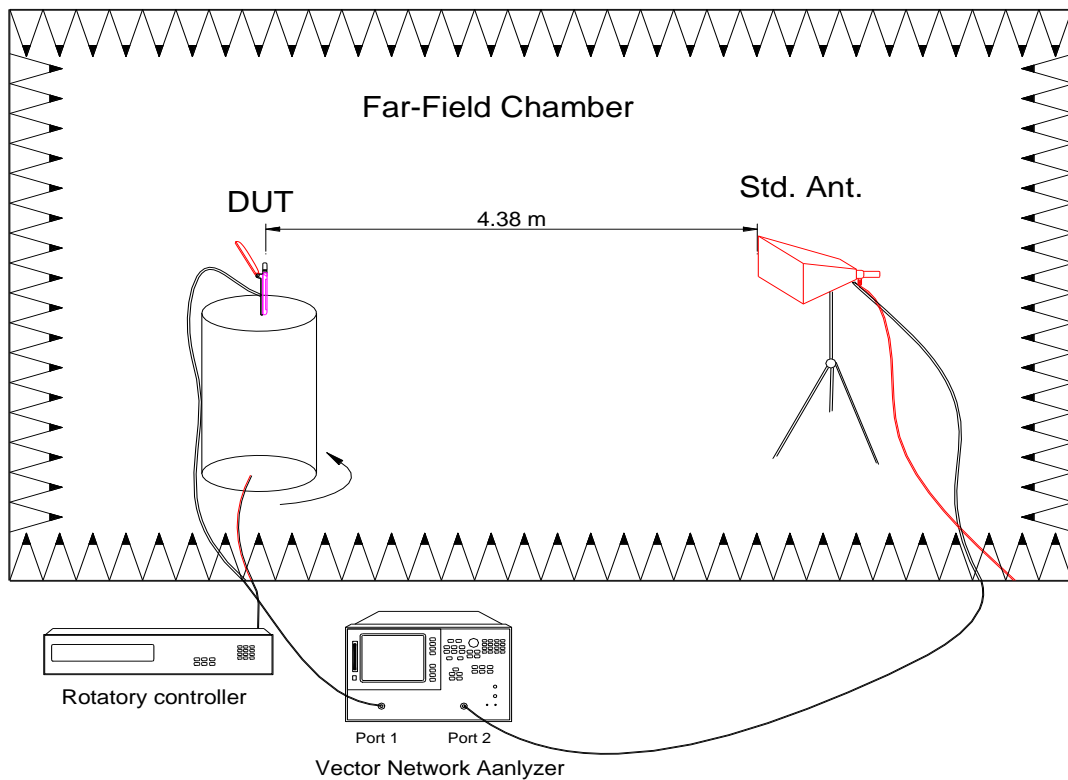
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2-4. Measure and Chamber

2-4-1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

2-4-2 Chamber definition



1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna

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2-4-3 TRP/TIS

		测试值	
802.11 b	TRP	1	10.71
		6	11.64
		13	11.47
	TIS	1	-82.81
		6	-83.04
		13	-83.78
802.11 g	TRP	1	8.08
		6	9.14
		13	9.18
	TIS	1	-67.42
		6	-68.28
		13	-68.86
5GHz 802.11a TRP(6M)/TIS(54M)	TRP	36	6.57
		64	7.21
		165	6.42
	TIS	36	-65.82
		64	-66.78
		165	-66.14

2-4-4 Antenna Efficiency

Frequency (MHz)	Peak Gain (dB)	Average Gain (dB)	Efficiency (%)
5150	-2.27	-7.45	18%
5200	-1.83	-7.21	19%
5250	-1.59	-6.99	20%
5300	-1.11	-6.58	22%
5350	-0.98	-6.58	22%
5400	-0.79	-6.38	23%
5450	-0.49	-6.20	24%
5500	-0.77	-6.38	23%
5550	-0.96	-6.58	22%
5600	-0.95	-6.58	22%
5650	-1.28	-6.78	21%
5700	-1.54	-6.99	20%

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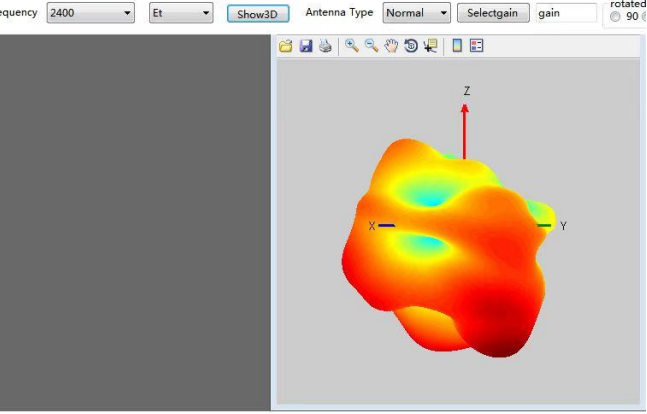
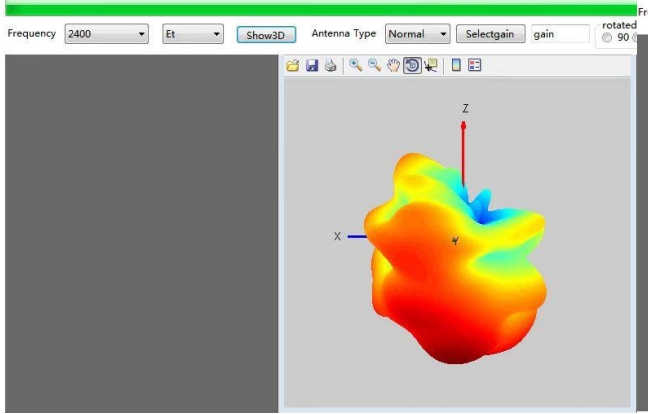
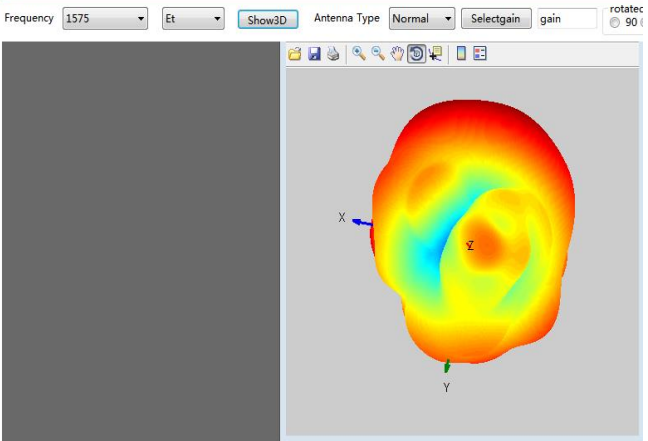
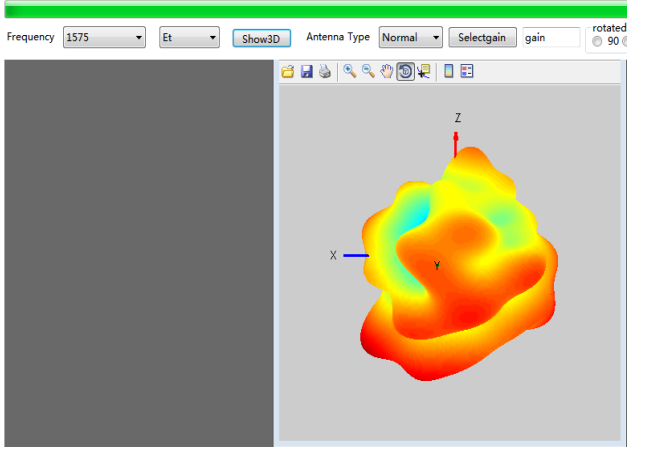
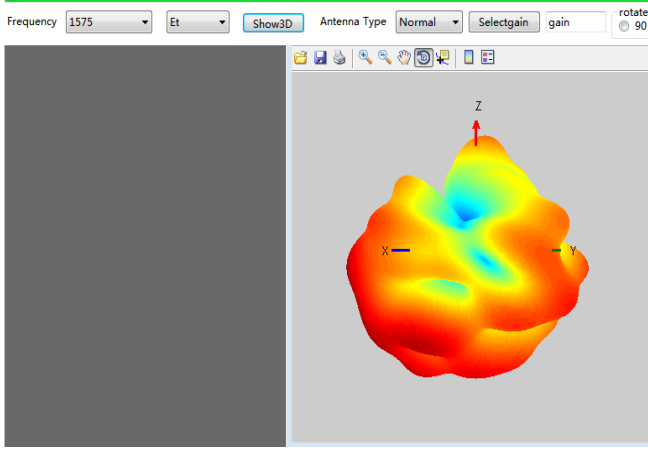
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5750	-1.48	-6.78	21%
5800	-1.95	-7.21	19%
5850	-2.51	-7.70	17%

Frequency (MHz)	Peak Gain (dB)	Average Gain (dB)	Efficiency (%)
1550	-0.26	-4.90	32%
1555	0.25	-4.50	35%
1560	0.42	-4.33	37%
1565	0.72	-4.34	37%
1570	0.56	-4.48	36%
1575	0.58	-4.55	35%
1580	0.59	-4.55	35%
1585	0.56	-4.63	34%
1590	0.46	-4.70	34%
1595	0.23	-4.96	32%
1600	0.01	-5.18	30%
2400	-0.23	-5.54	28%
2410	-0.95	-5.58	28%
2420	-0.98	-5.52	28%
2430	-0.41	-5.24	30%
2440	-0.14	-5.27	30%
2450	-0.68	-5.40	29%
2460	-0.80	-5.20	30%
2470	-0.46	-5.27	30%
2480	-0.85	-5.57	28%
2490	-0.84	-5.62	27%
2500	-0.78	-5.75	27%

场强图

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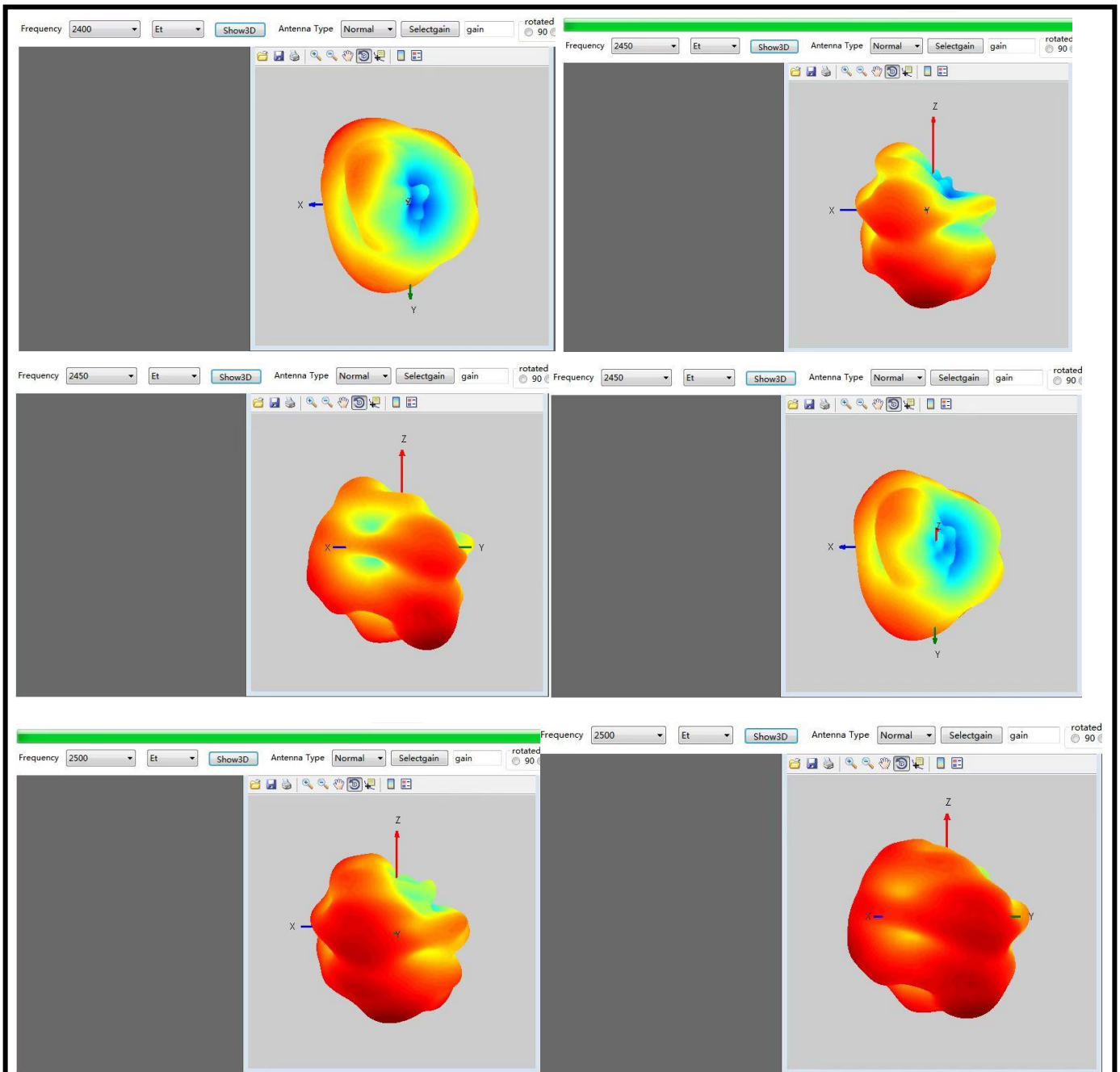
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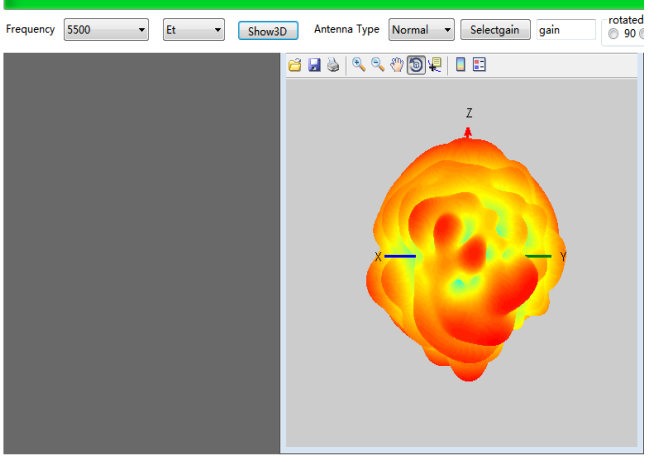
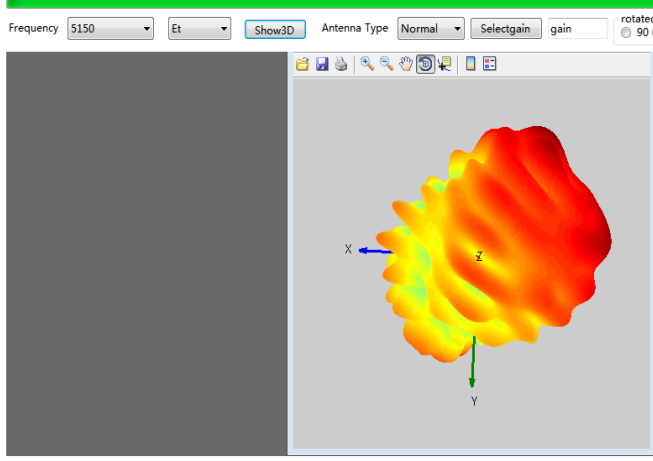
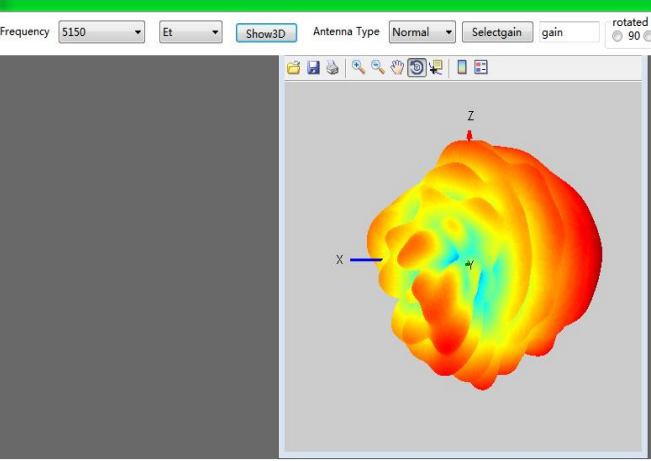
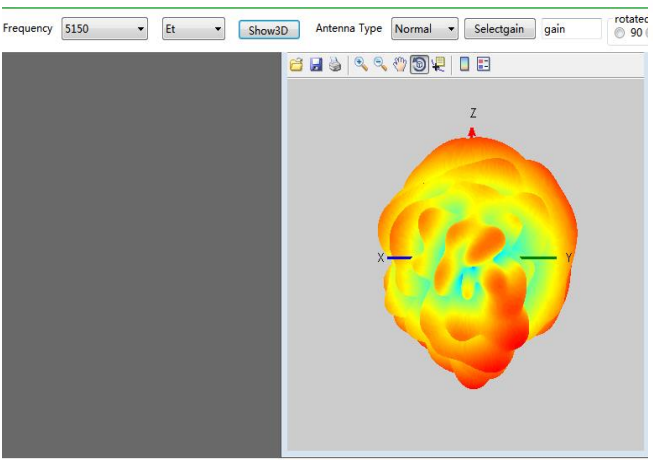
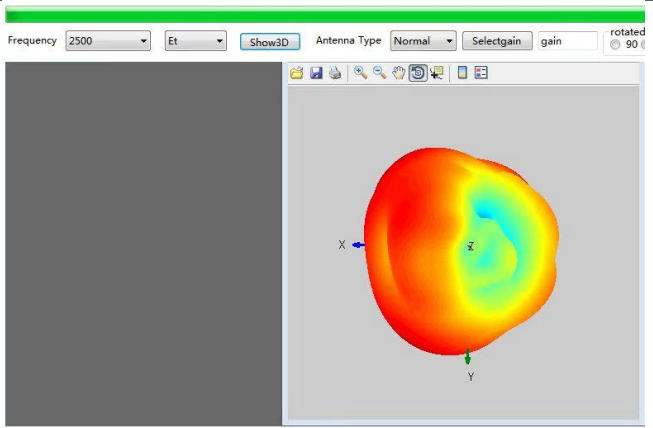
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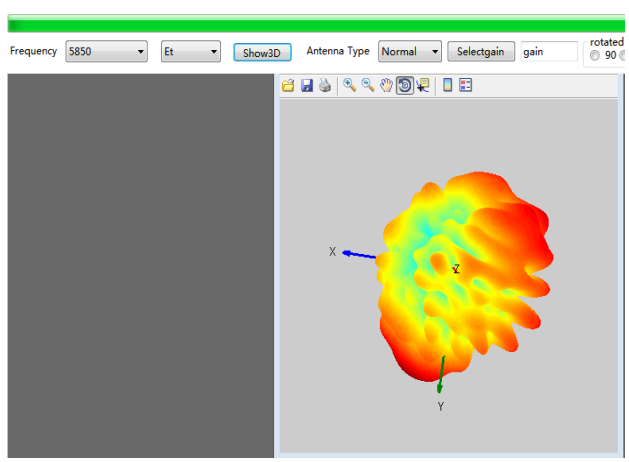
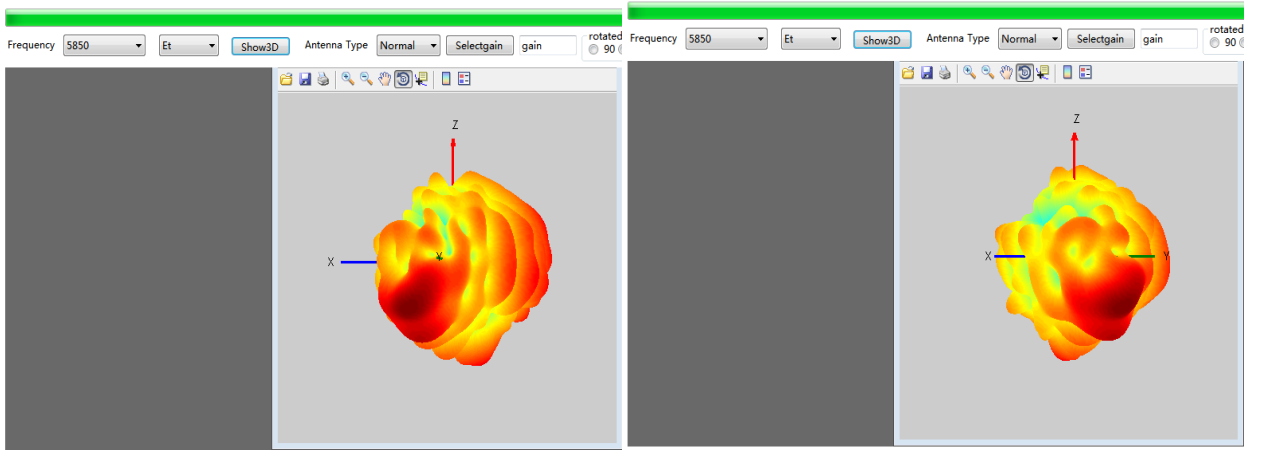
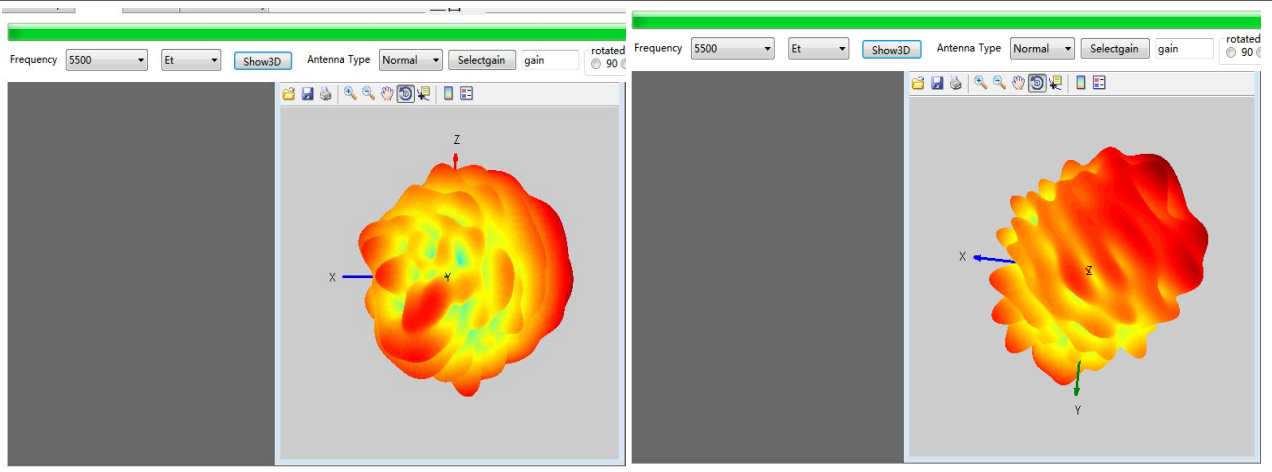
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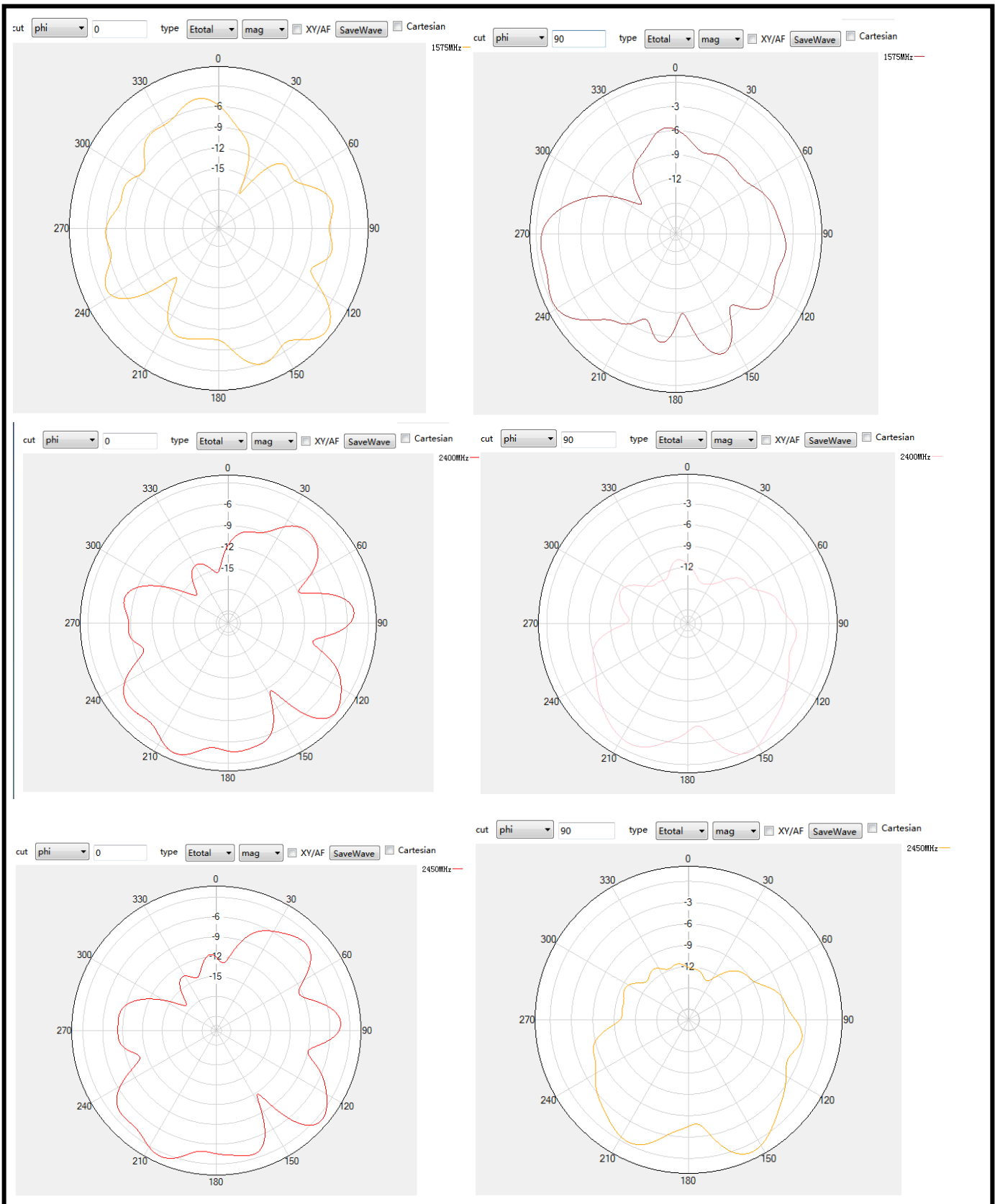
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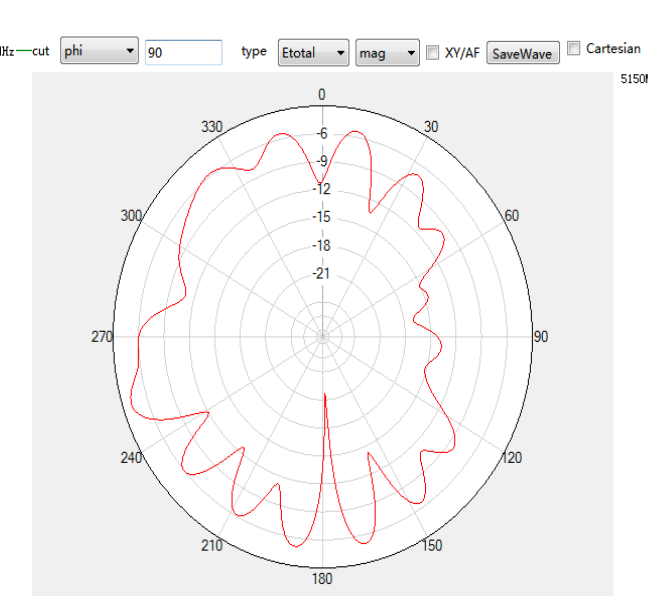
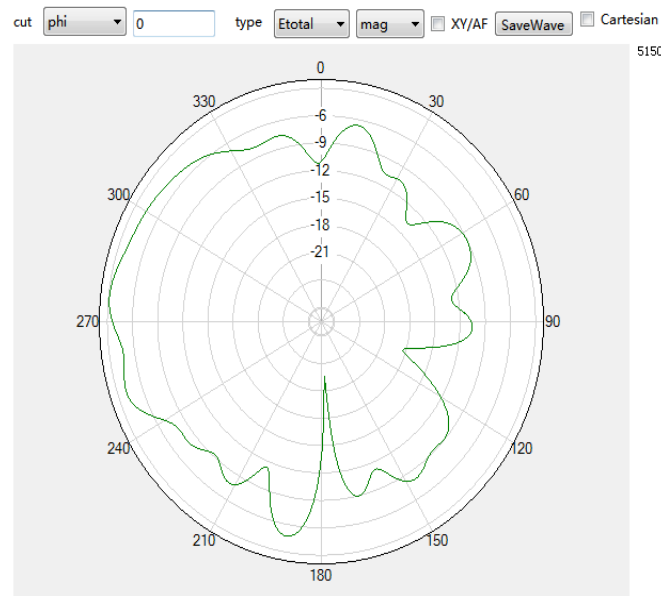
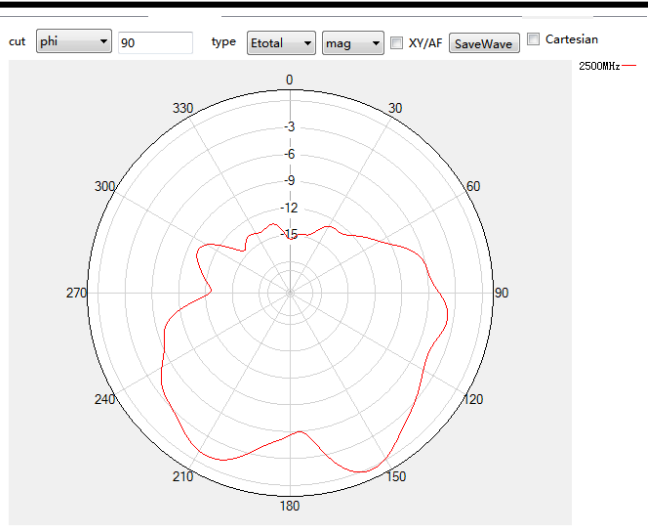
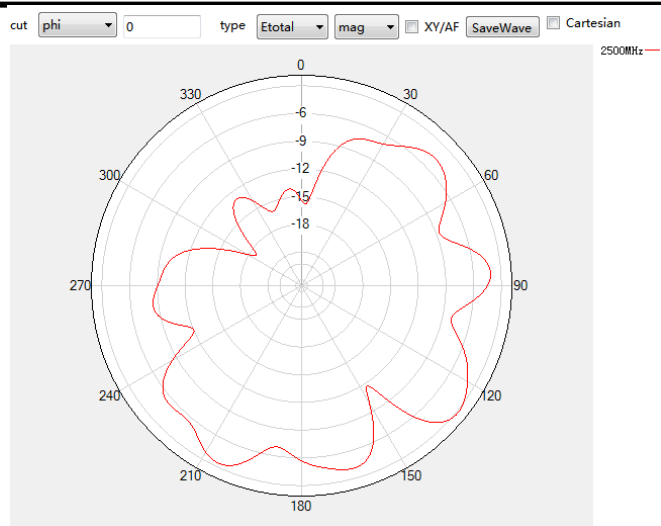
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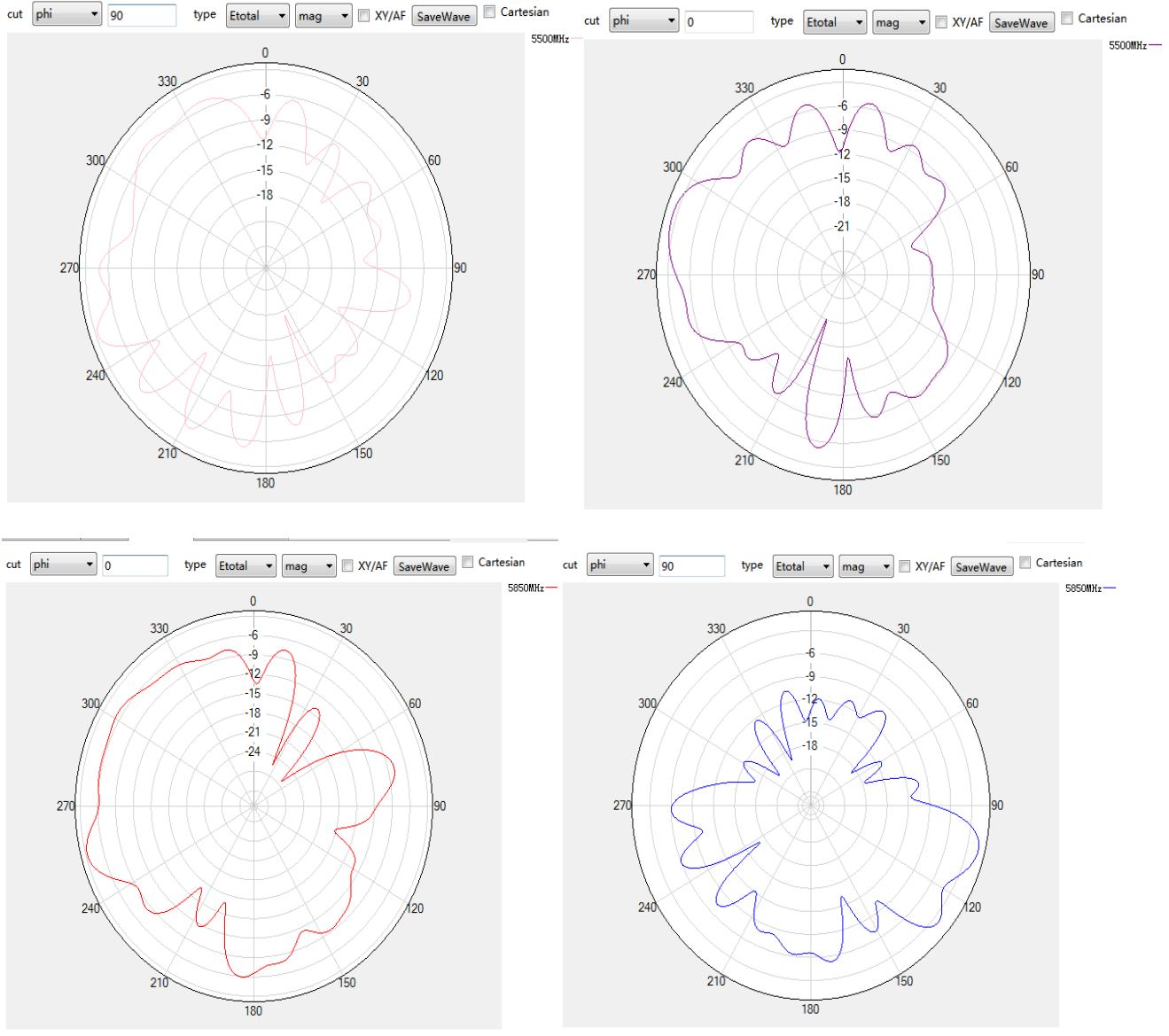
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3. Antenna Dimensions:

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