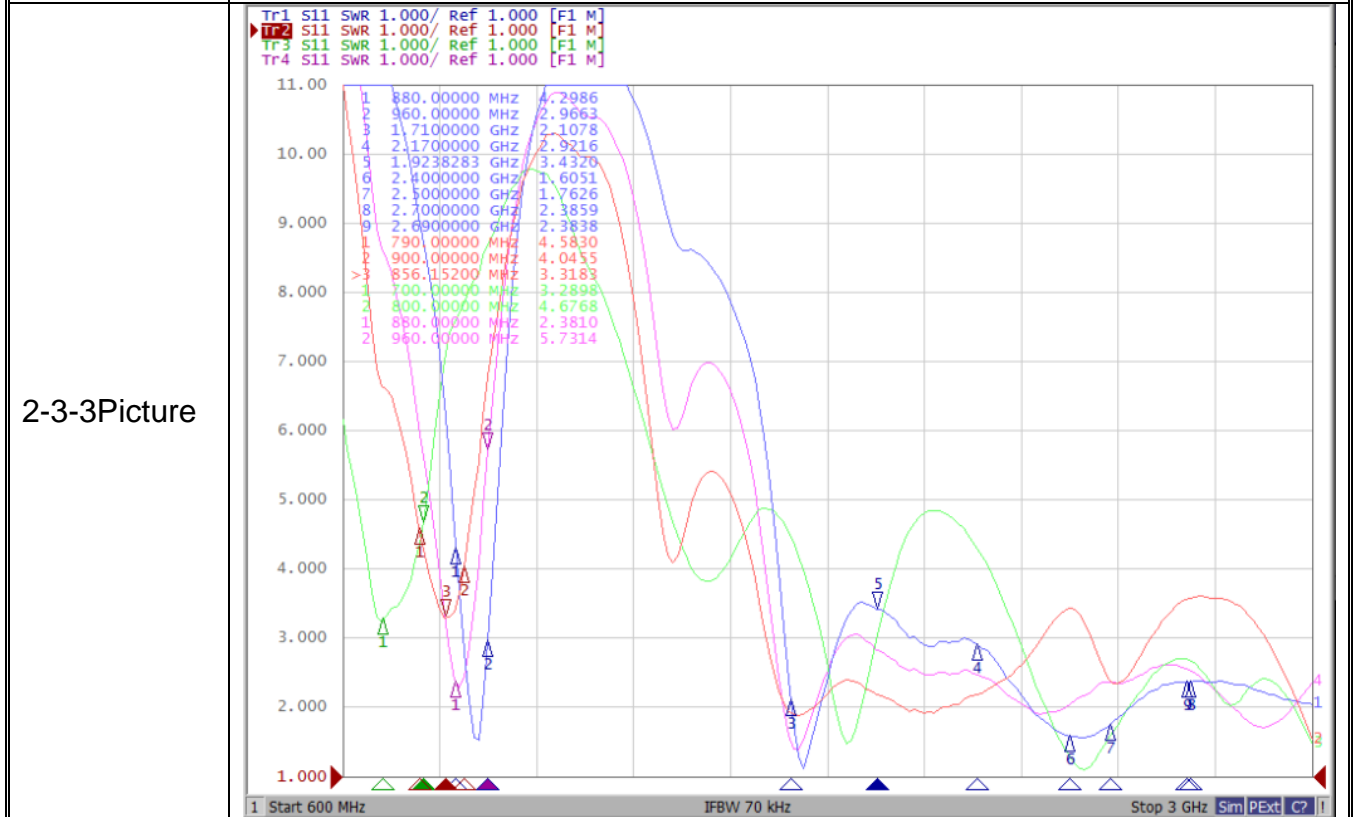


2-3. VSWR ,Efficiency ,Matching and Active Data :

2-3.1 VSWR:

Frequency Band	880	960	1710	2170	2500	2690
2-3-1. Typical Value:	≤ 2	≤ 2	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2

2-3-2 Measuring Method	<ol style="list-style-type: none"> 1. A 50Ω coaxial cable is connected to the pcb 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-GSM-ANTENNA-V1.0Specification



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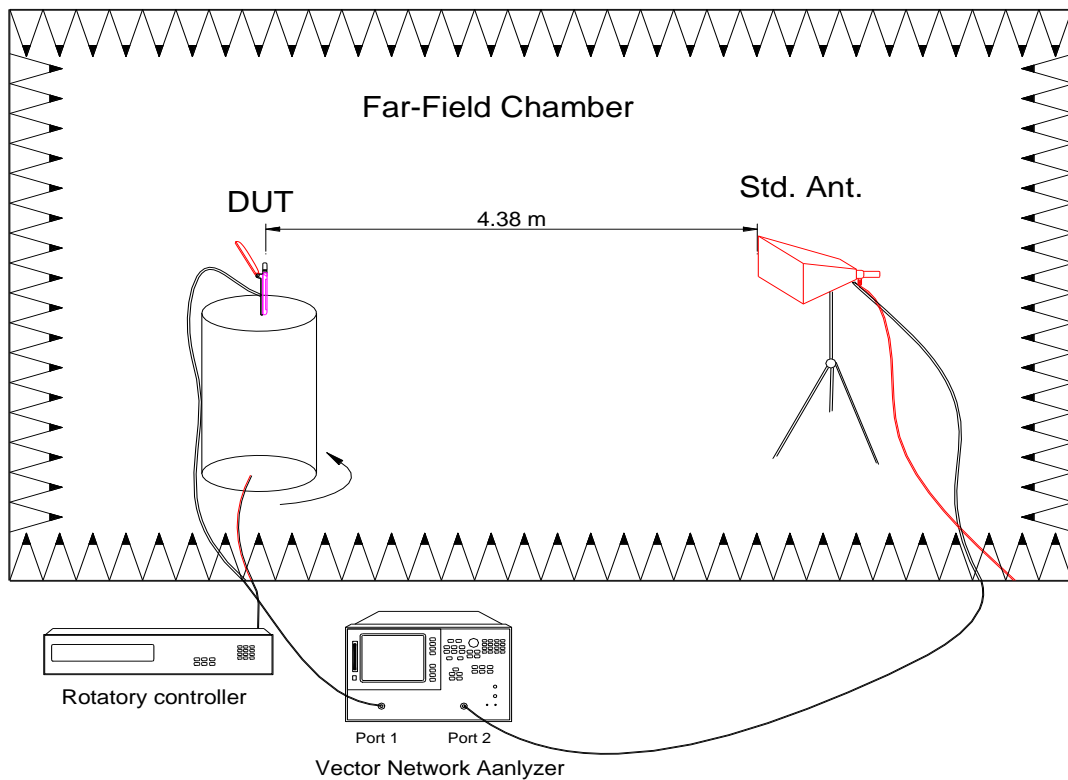
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2-4. Measure and Chamber

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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(BBHA9120 LPF 700MHz ~6GHz)

2-4-3 Antenna OTA

Band	Channel	RF	TRP	TIS
GSM850	L	32.5	25.8	-105.37
	M		26.5	-105.03
	H		26.71	-103.37
GSM900	L	32.5	26.61	-105.12
	M		26.76	-105.56
	H		27.08	-104.12
DCS1800	L	29.5	24.85	-107.07
	M		24.91	-107.52
	H		25.3	-106.87
PCS1900	L	29.5	25.06	-104.79
	M		25.96	-103.9
	H		26.36	-103.5
WCDMA Band1	L	22.5	19.92	
	M		19.83	
	H		19.74	-110.93
WCDMA Band2	L	22.5	17.86	
	M		17.64	
	H		17.38	-104.3
WCDMA Band5	L	23	17.08	
	M		17.15	
	H		17.89	-104.58
WCDMA Band8	L	23	18.51	
	M		19.44	
	H		18.47	-103.1
LTE B1	L	21.2	19.14	
	M		19.03	
	H		18.61	-97.71
LTE B3	L	21.2	17.34	

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	M		17.92	
	H		18.03	-97.62
LTE B7	L	20.3	18.65	
	M		18.49	
	H		18.52	-94.08
LTE B20	L	23	17.37	
	M		18.1	
	H		18.55	-95.9
LTE B28A	L	23	14.13	
	M		14.4	
	H		14.96	
LTE B28B	L		15.52	
	M		15.64	
	H		15.65	-95.07

2-4- Antenna Efficiency

Frequency (MHz)	Peak Gain (dB)	Average Gain (dB)	Efficiency (%)
690	-5.72	-9.99	10%
700	-5.19	-9.19	12%
710	-4.86	-8.36	15%
720	-4.39	-7.62	17%
730	-3.93	-7.23	19%
740	-3.44	-6.91	20%
750	-3.27	-6.82	21%
760	-3.68	-7.16	19%
770	-4.39	-7.61	17%
780	-4.56	-7.88	16%
790	-4.72	-8.33	15%
800	-5.48	-9.14	12%
810	-6.05	-9.64	11%
790	-2.49	-7.50	18%
800	-2.09	-7.07	20%
810	-1.85	-6.70	21%
820	-1.52	-6.17	24%
830	-1.31	-5.89	26%
840	-0.97	-5.64	27%

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850	-0.46	-5.63	27%
860	-0.34	-5.55	28%
870	-0.34	-5.69	27%
880	-0.46	-6.07	25%
890	-0.56	-6.35	23%
900	-0.97	-6.84	21%
880	-1.63	-6.86	21%
890	-1.15	-6.31	23%
900	-1.29	-6.48	22%
910	-1.71	-6.95	20%
920	-0.75	-6.27	24%
930	0.06	-5.65	27%
940	0.40	-5.39	29%
950	0.09	-5.79	26%
960	-0.61	-6.42	23%
920	-1.20	-6.02	25%
930	-0.64	-5.39	29%
940	-0.40	-5.11	31%
950	-0.55	-5.35	29%
960	-1.05	-5.93	26%
1710	-1.19	-6.3	23%
1720	-0.57	-5.33	29%
1730	0.55	-4.33	37%
1740	1.25	-3.67	43%
1750	1.14	-3.43	45%
1760	1.32	-3.27	47%
1770	1.60	-3.29	47%
1780	1.17	-3.49	45%
1790	0.84	-3.72	42%
1800	0.71	-3.89	41%
1810	-0.08	-4.21	38%
1820	-0.84	-4.49	36%
1830	-0.80	-4.63	34%
1840	-1.04	-4.88	33%
1850	-1.48	-5.09	31%
1860	-1.33	-5.1	31%
1870	-1.36	-5.21	30%
1880	-0.87	-5.44	29%
1890	-0.97	-5.56	28%
1900	-1.93	-5.69	27%

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1910	-2.11	-5.74	27%
1920	-1.74	-5.62	27%
1930	-1.63	-5.65	27%
1940	-1.68	-5.72	27%
1950	-1.48	-5.55	28%
1960	-1.43	-5.43	29%
1970	-1.71	-5.56	28%
1980	-1.68	-5.46	28%
1990	-1.43	-5.39	29%
2000	-1.45	-5.51	28%
2010	-1.37	-5.44	29%
2020	-1.14	-5.28	30%
2030	-1.16	-5.29	30%
2040	-1.20	-5.32	29%
2050	-0.98	-5.16	30%
2060	-0.78	-5.21	30%
2070	-0.76	-5.24	30%
2080	-0.55	-5.02	31%
2090	-0.48	-4.95	32%
2100	-0.62	-4.96	32%
2110	-0.85	-4.96	32%
2120	-1.03	-5	32%
2130	-1.30	-5.02	31%
2140	-1.38	-4.87	33%
2150	-1.18	-4.71	34%
2160	-0.98	-4.54	35%
2170	-0.80	-4.35	37%
2500	-0.03	-3.42	45%
2510	0.18	-3.5	45%
2520	0.14	-3.58	44%
2530	-0.17	-3.7	43%
2540	-0.59	-3.81	42%
2550	-0.88	-3.99	40%
2560	-1.07	-4.24	38%
2570	-0.58	-4.33	37%
2580	-0.35	-4.49	36%
2590	-0.62	-4.67	34%
2600	-1.04	-4.73	34%
2610	-1.44	-4.86	33%
2620	-1.72	-5.05	31%
2630	-1.61	-5.04	31%
2640	-1.20	-5.12	31%

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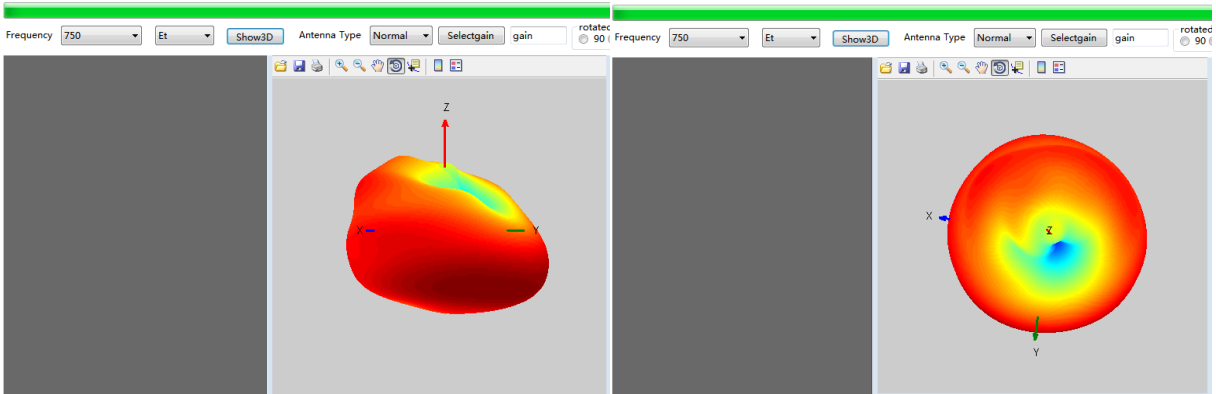
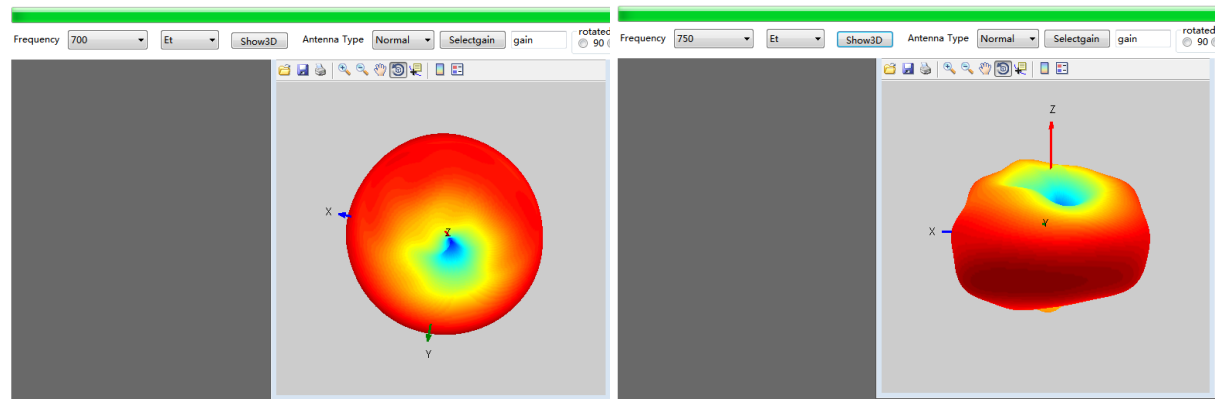
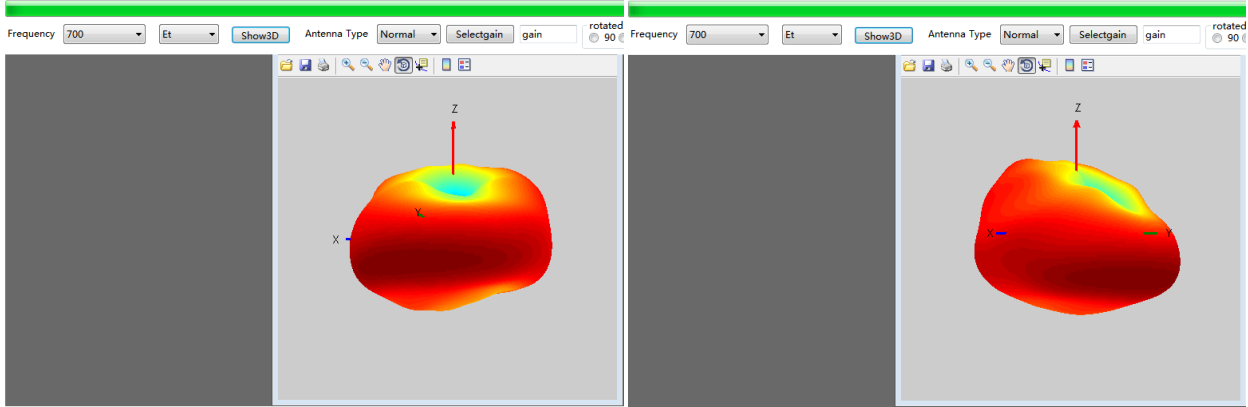
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2650	-1.14	-5.35	29%
2660	-1.16	-5.23	30%
2670	-1.28	-5.23	30%
2680	-1.53	-5.44	29%
2690	-1.67	-5.33	29%

强图



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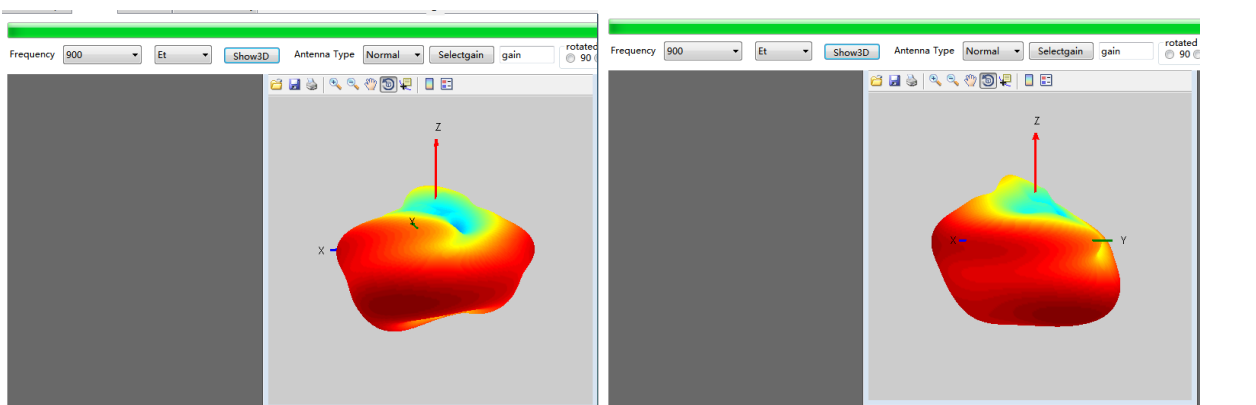
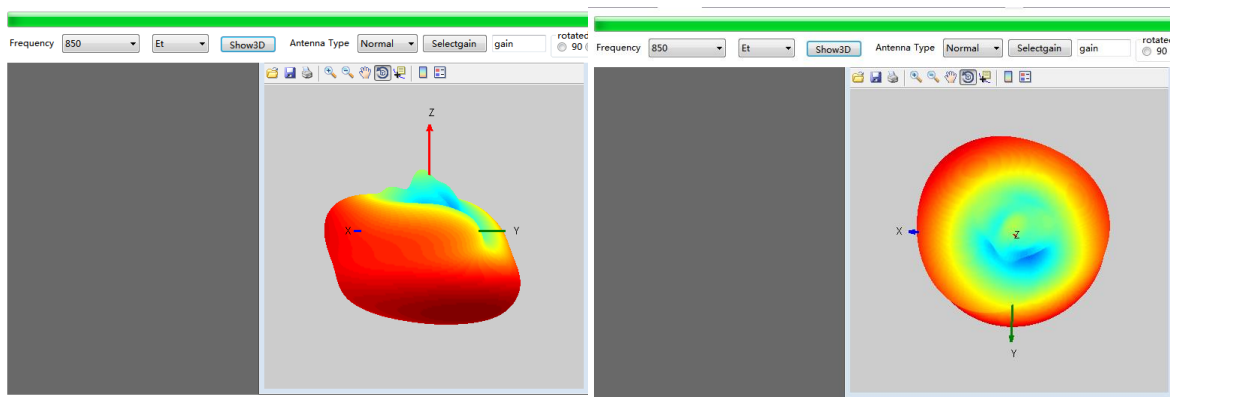
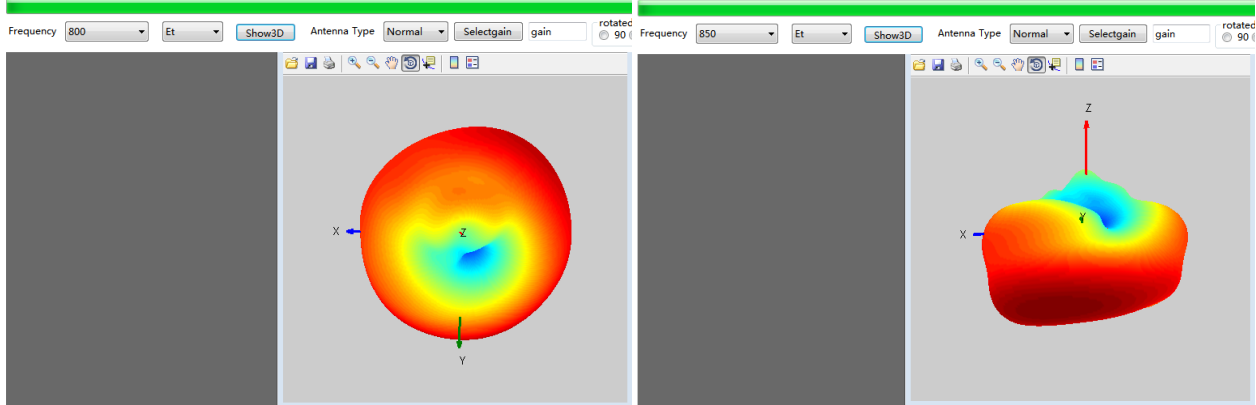
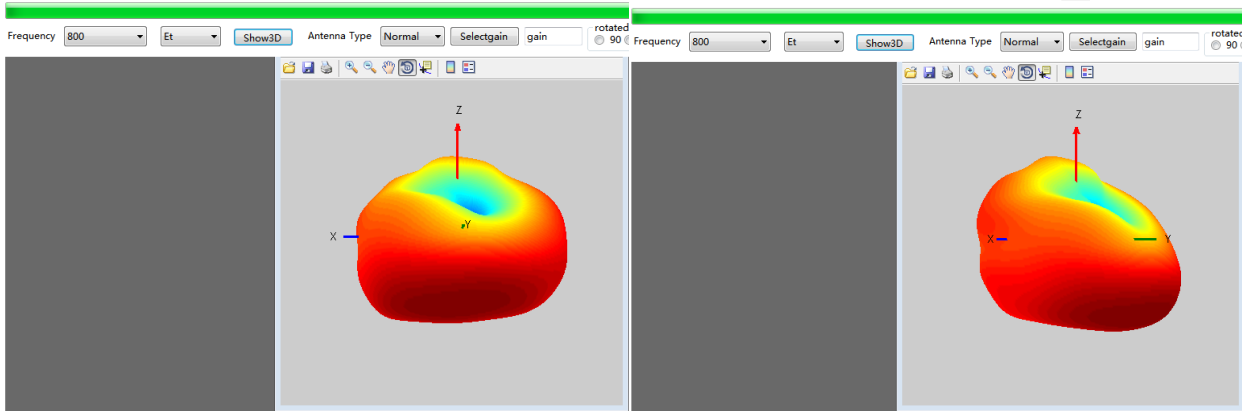


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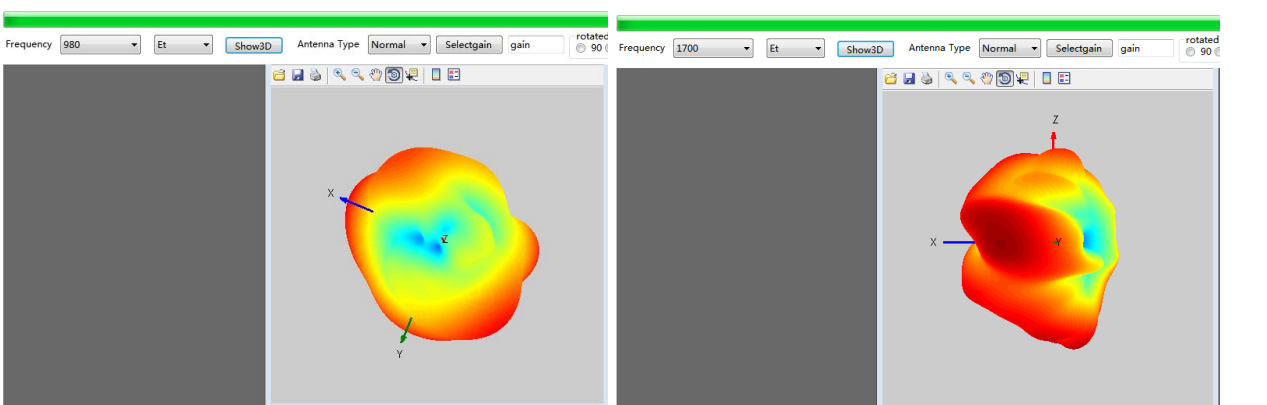
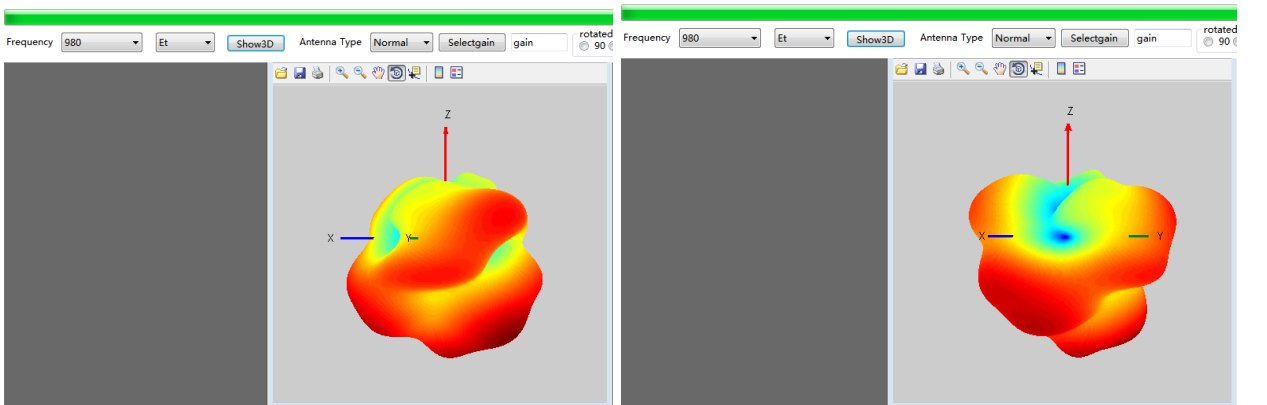
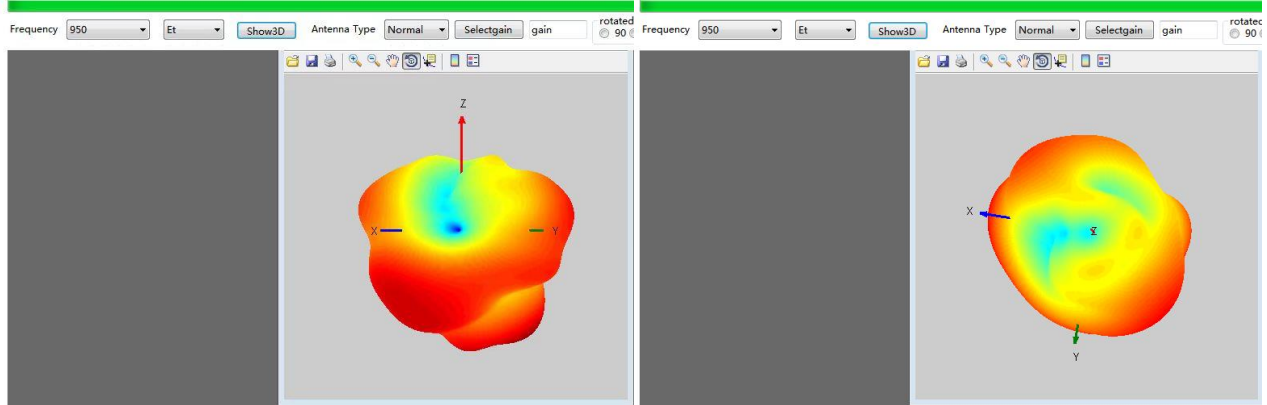
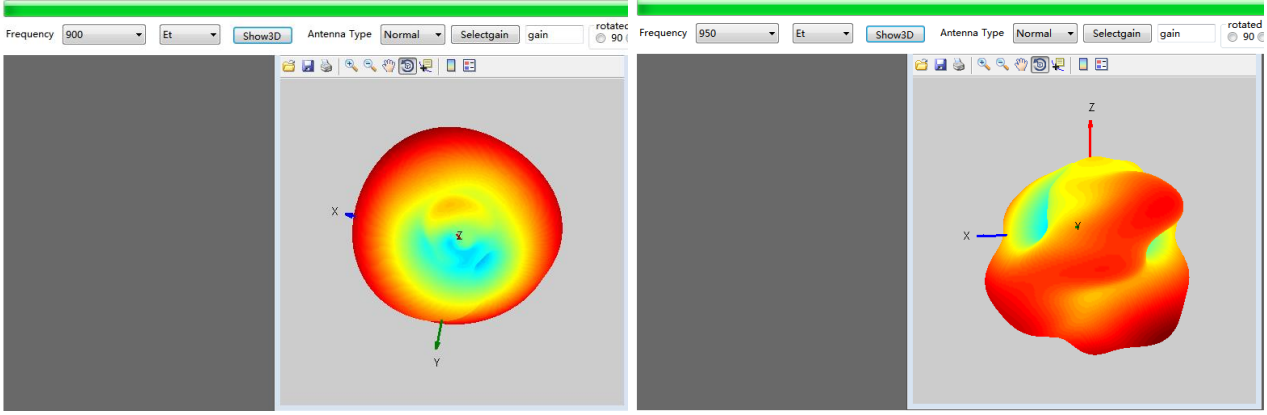
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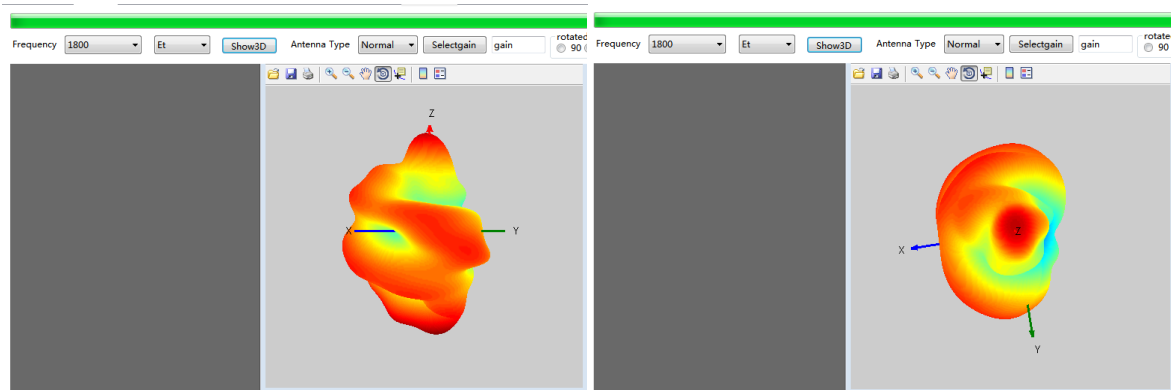
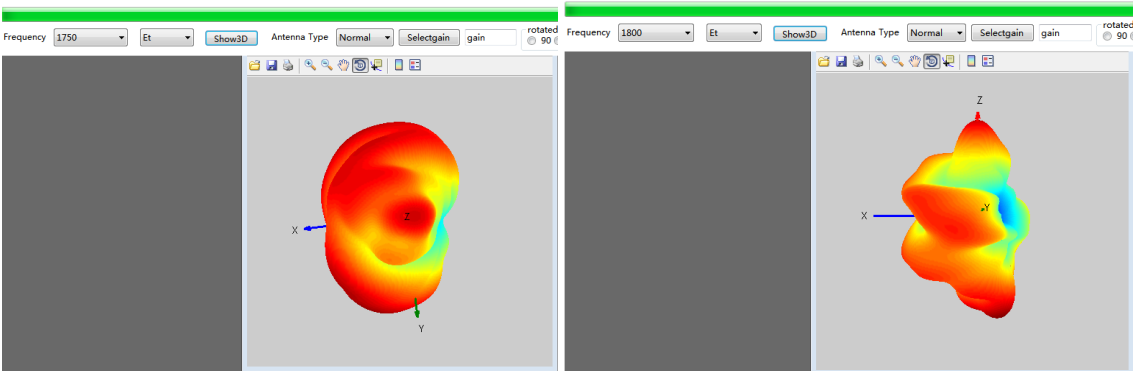
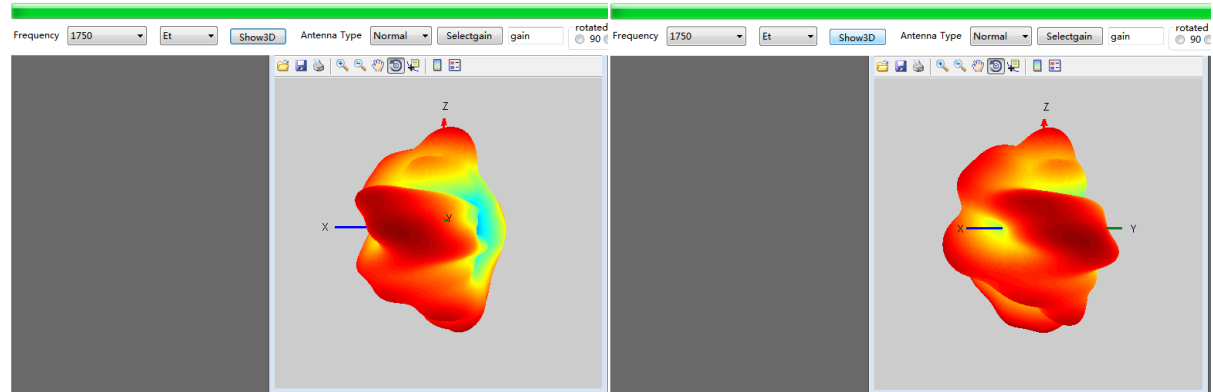
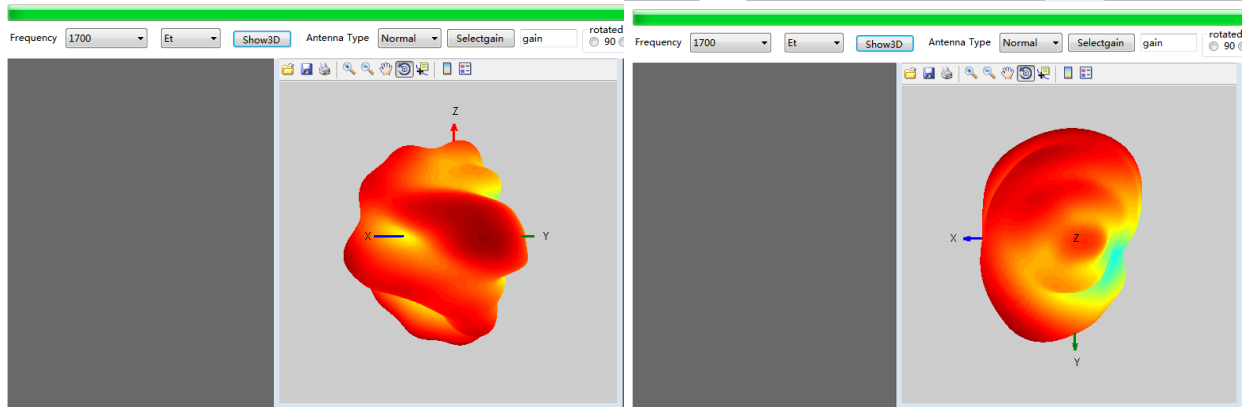
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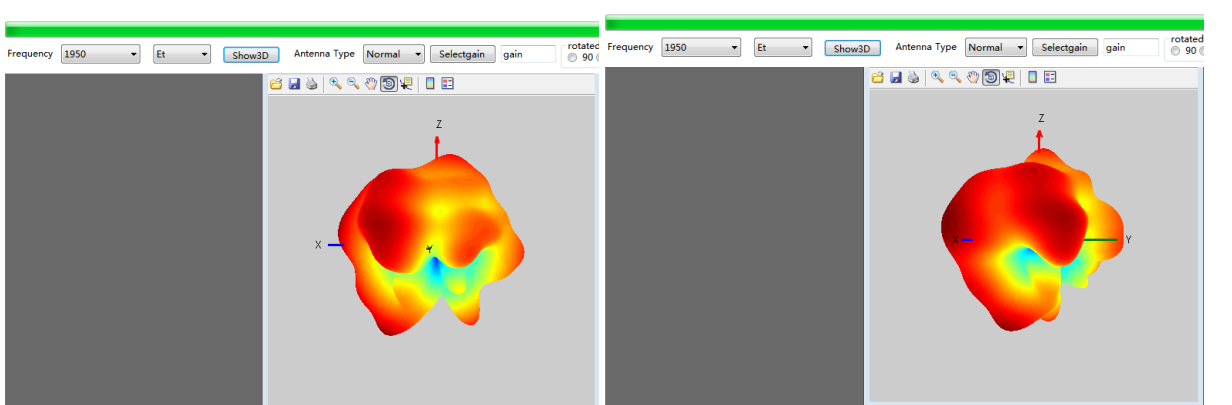
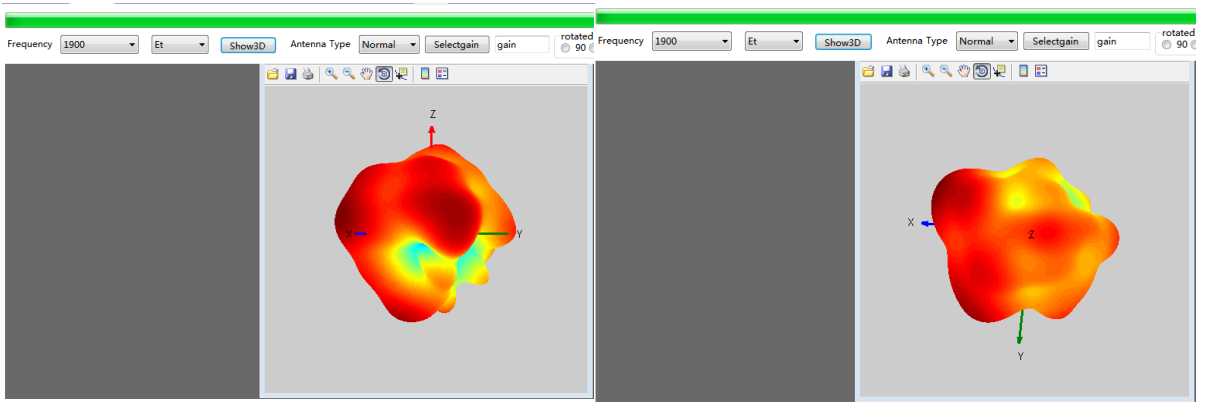
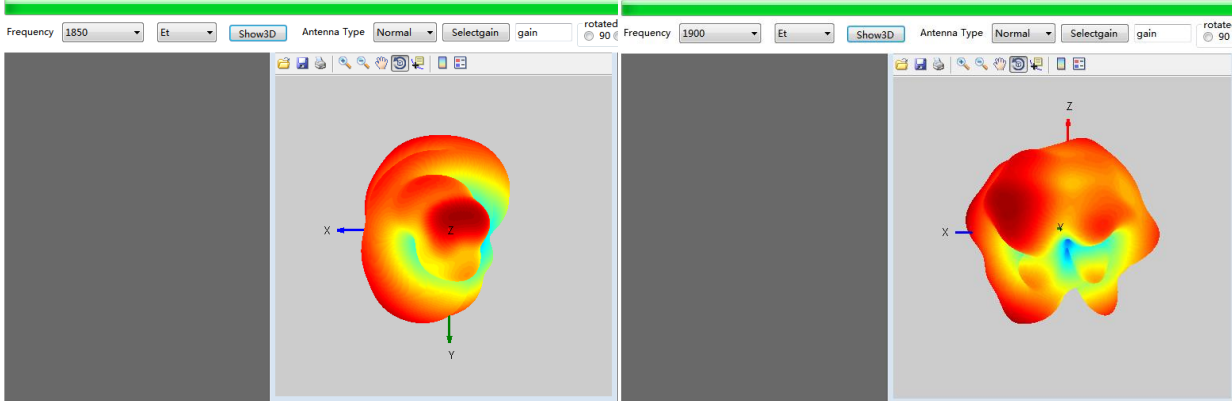
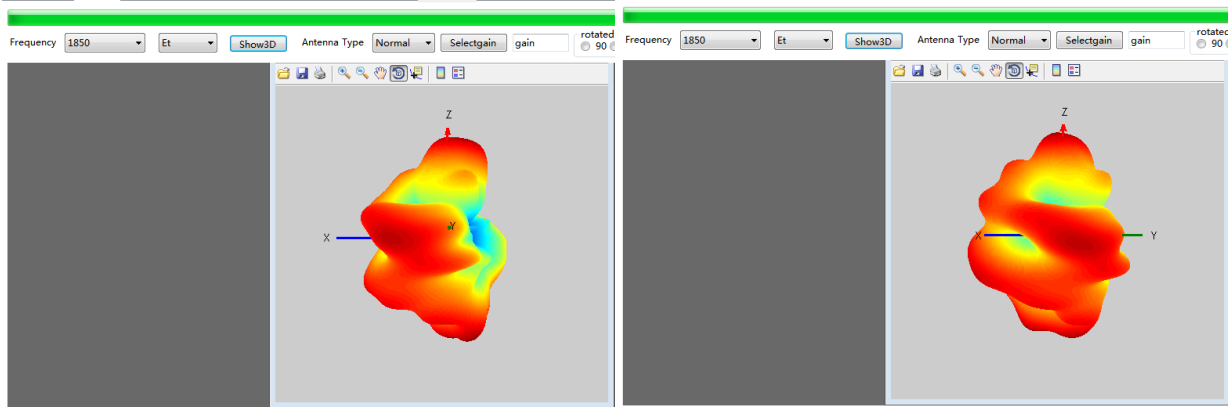


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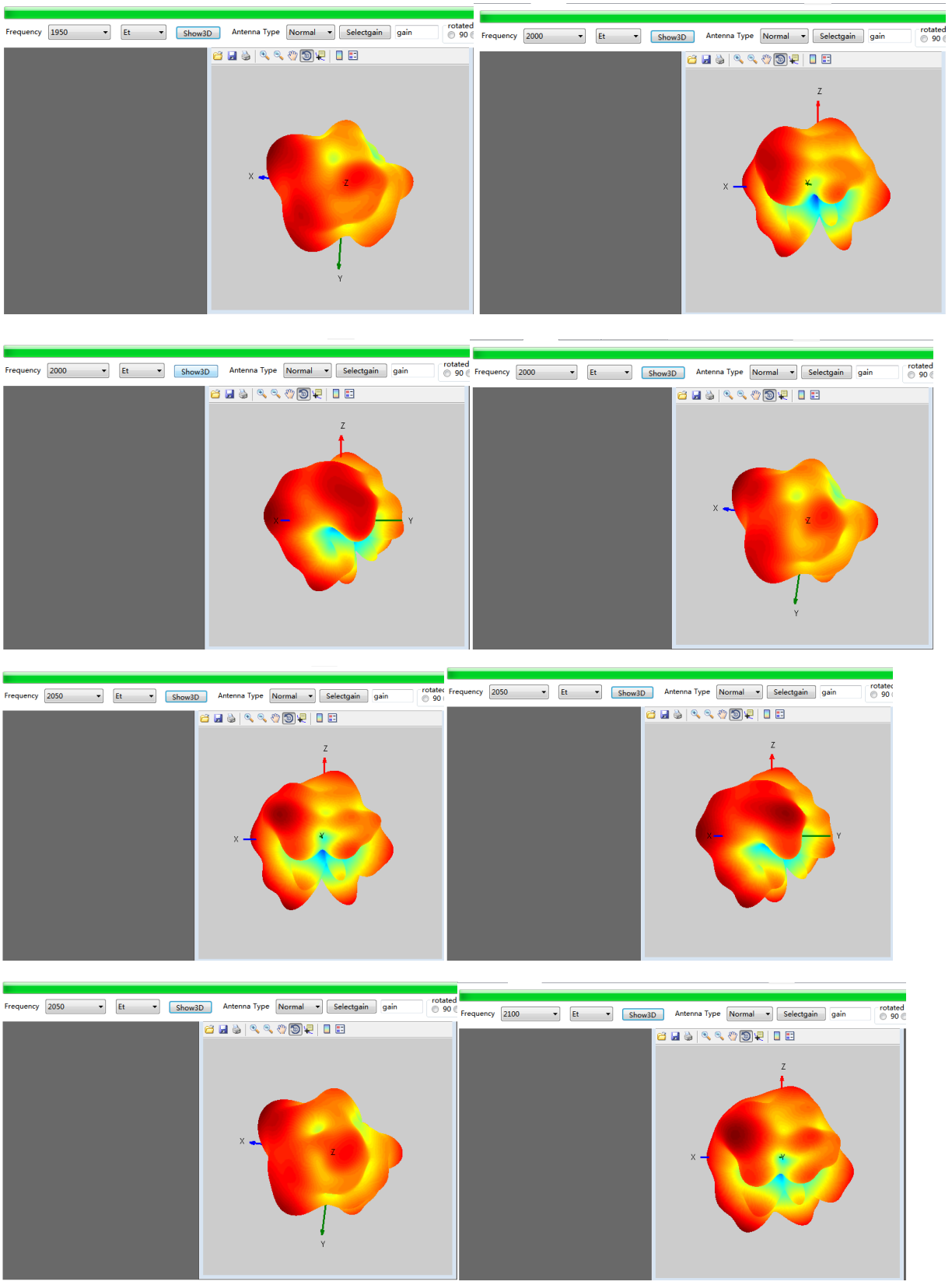
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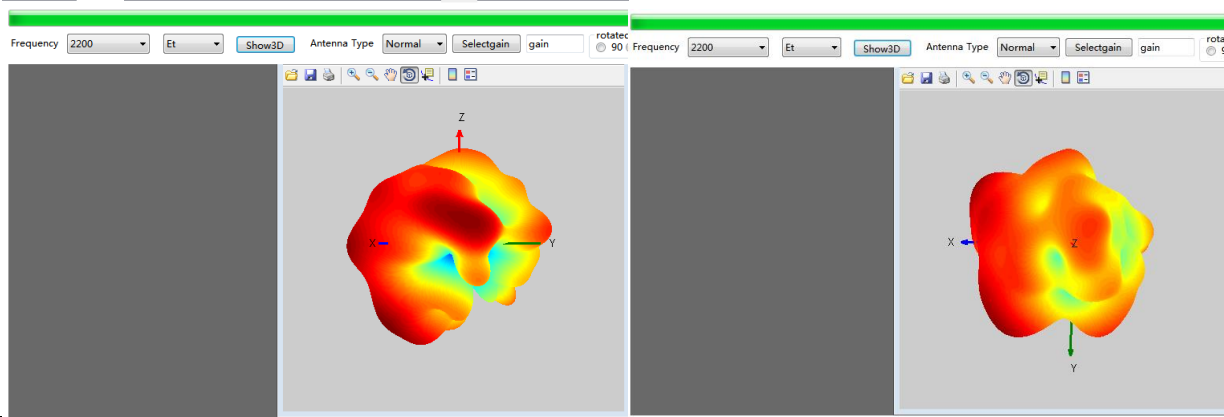
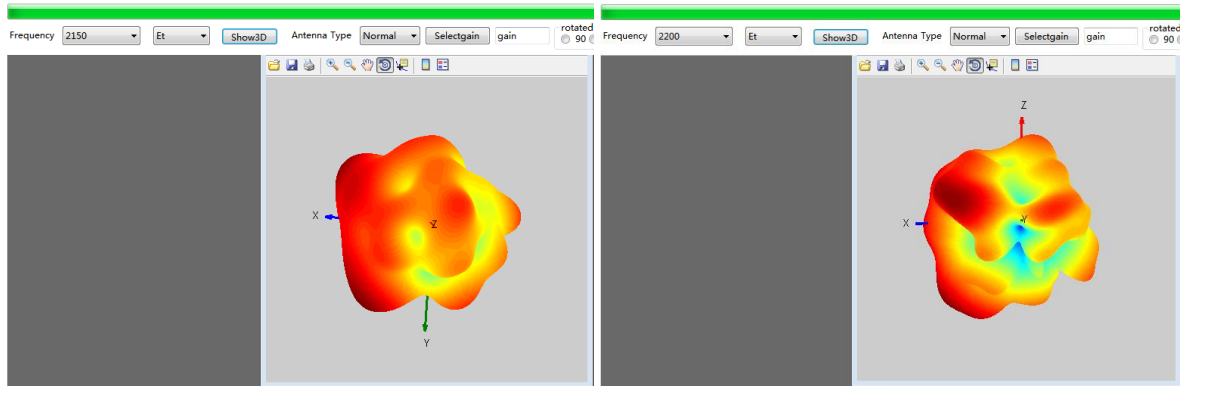
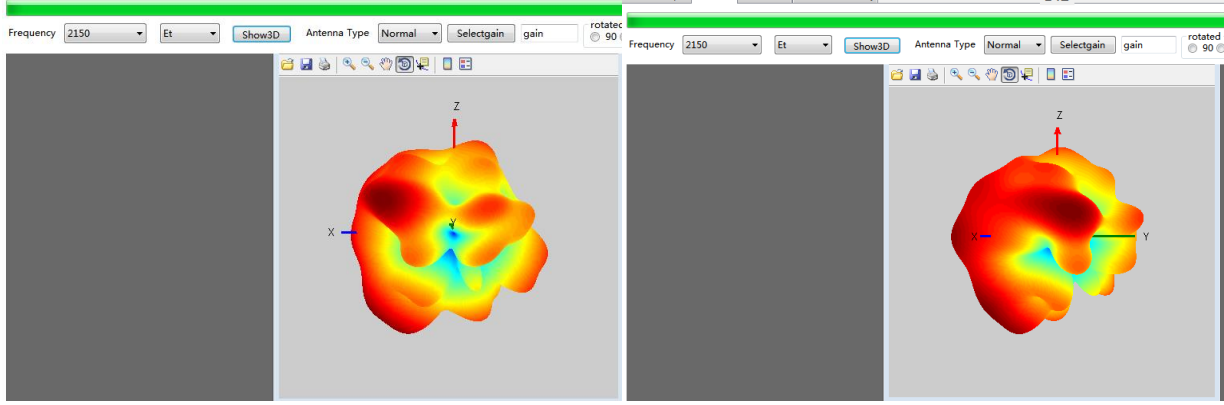
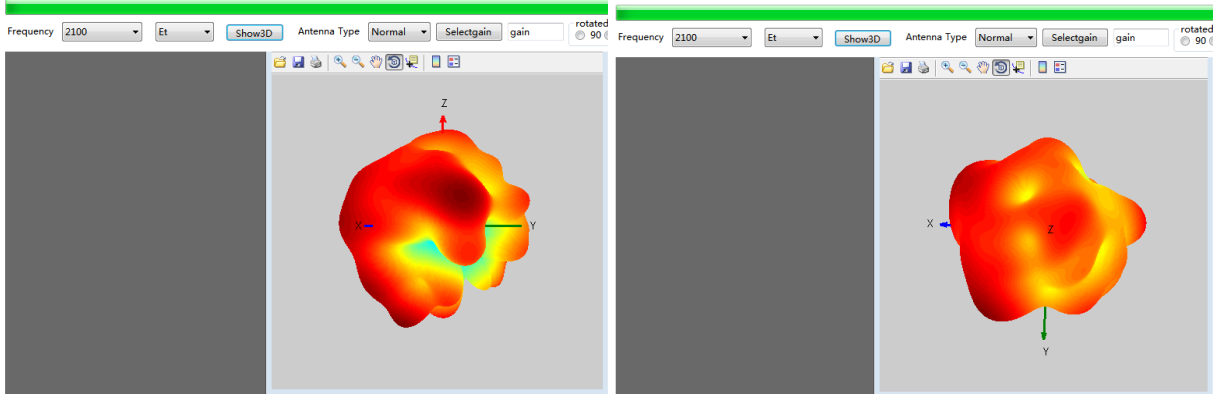


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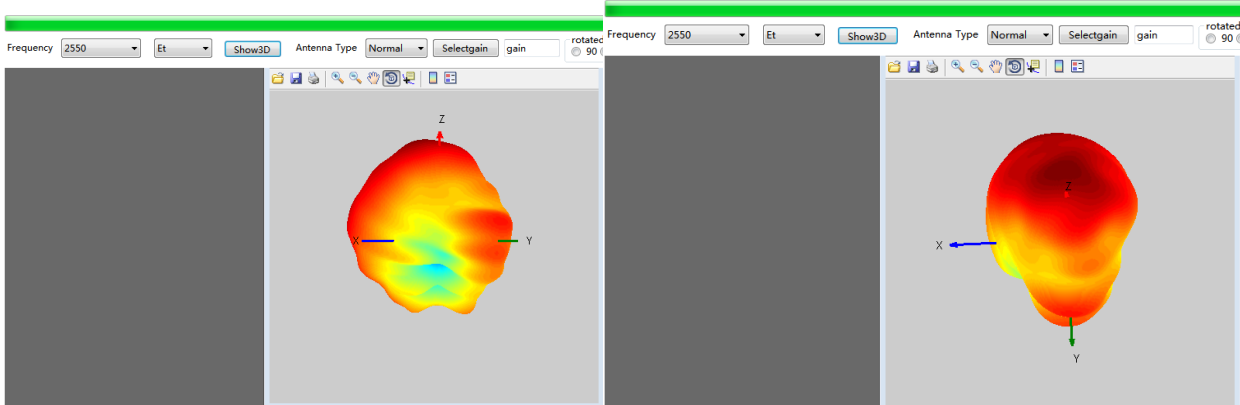
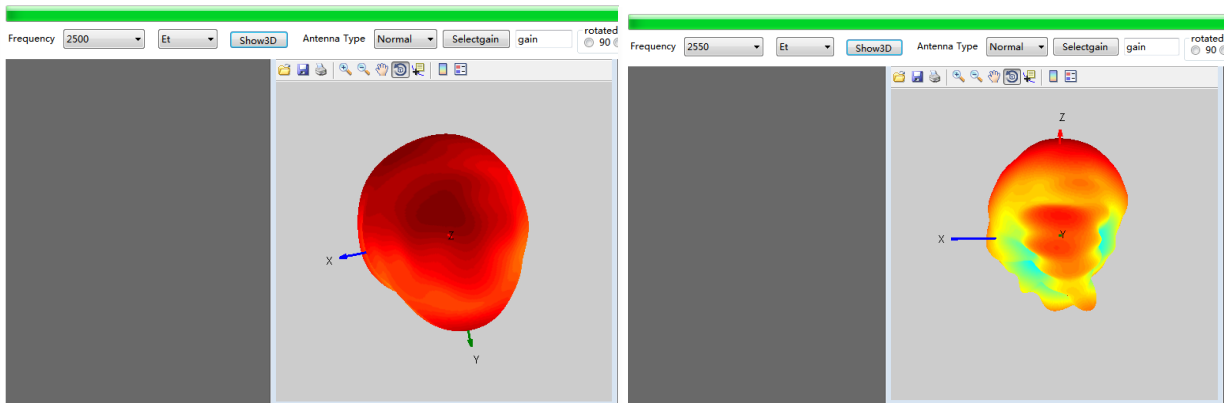
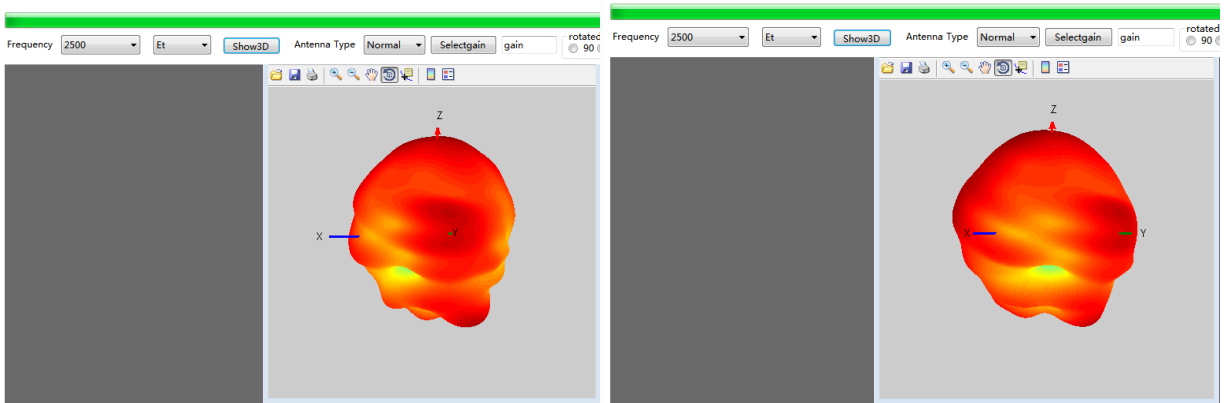
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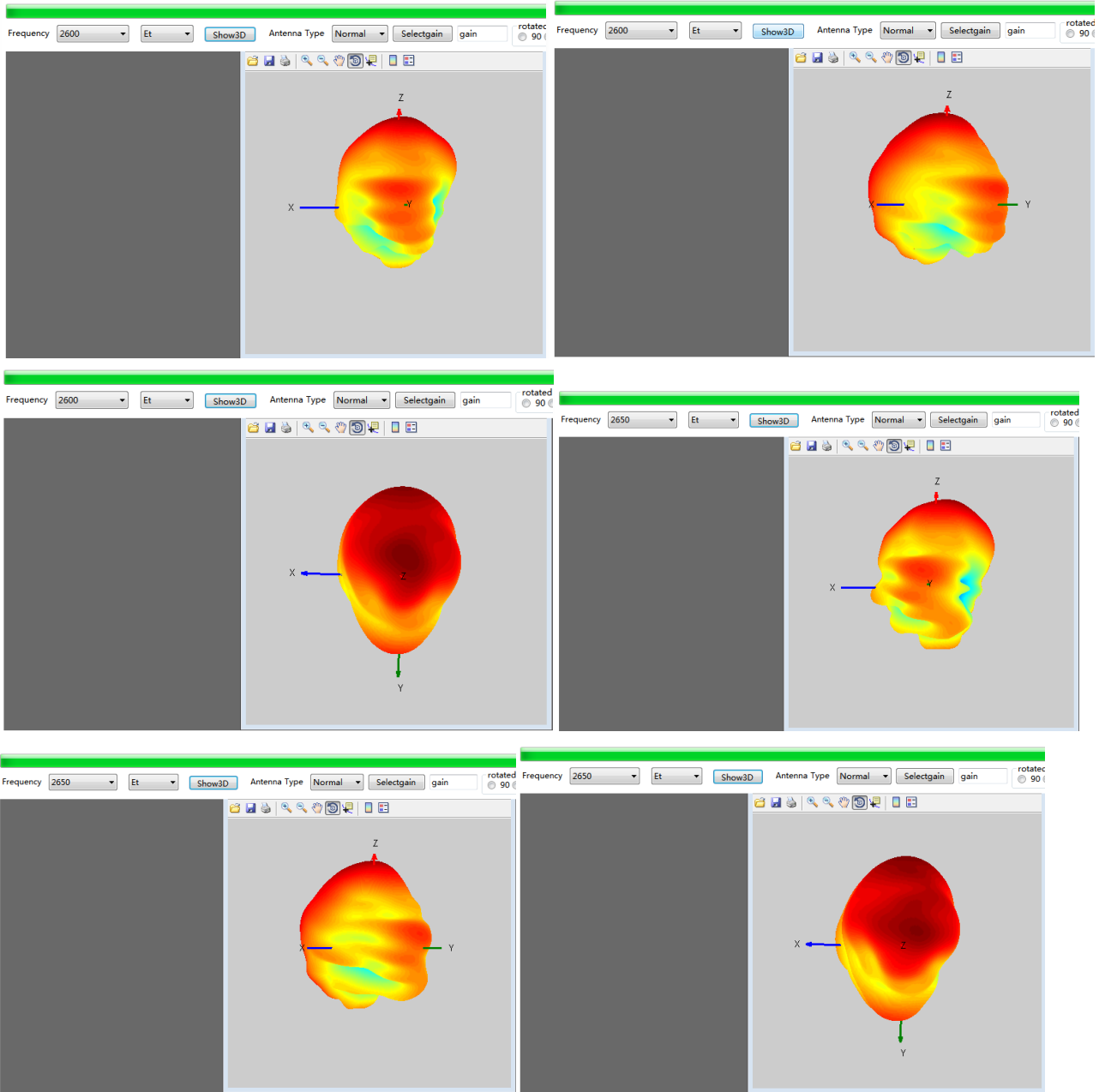
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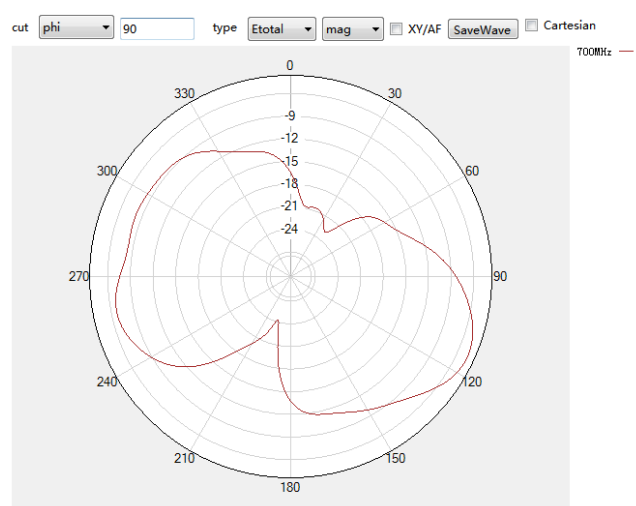
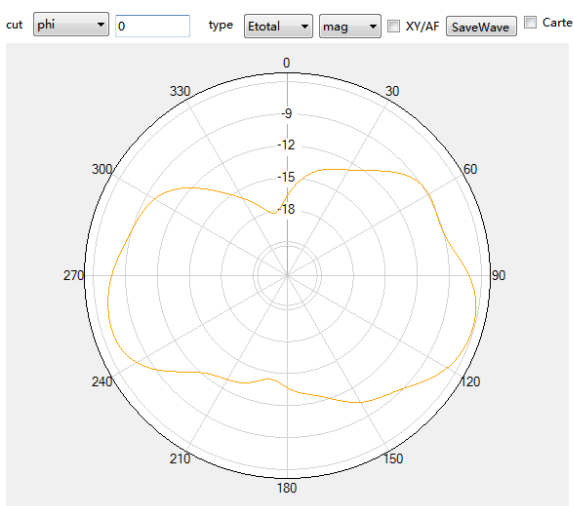
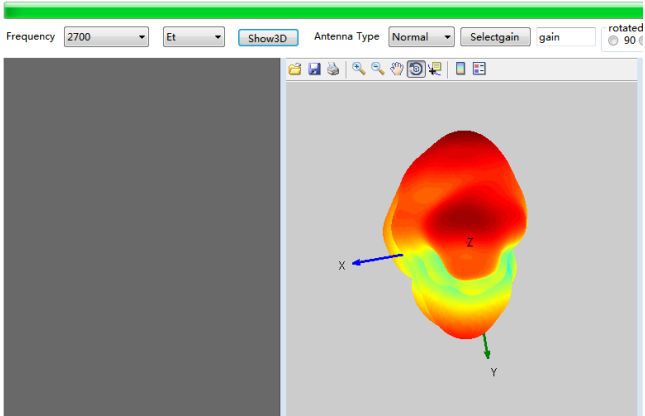
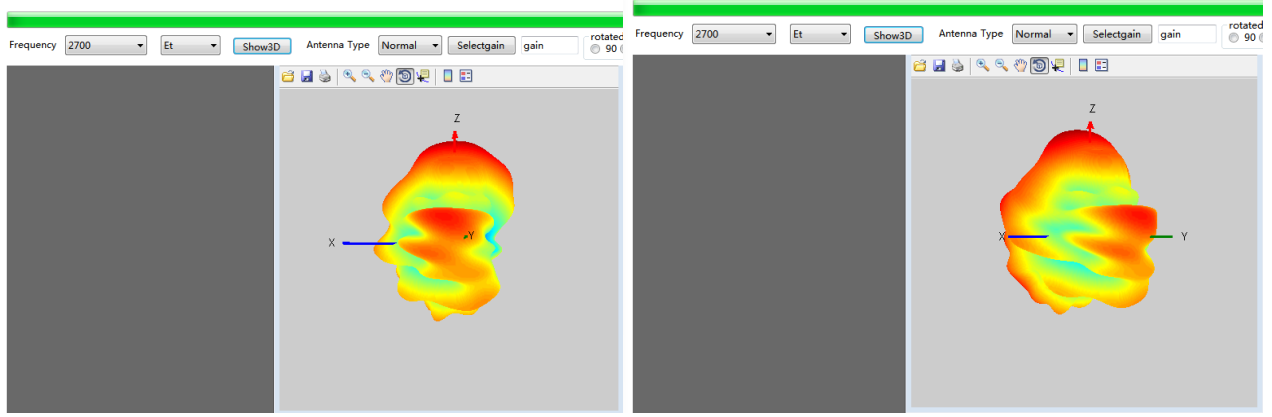



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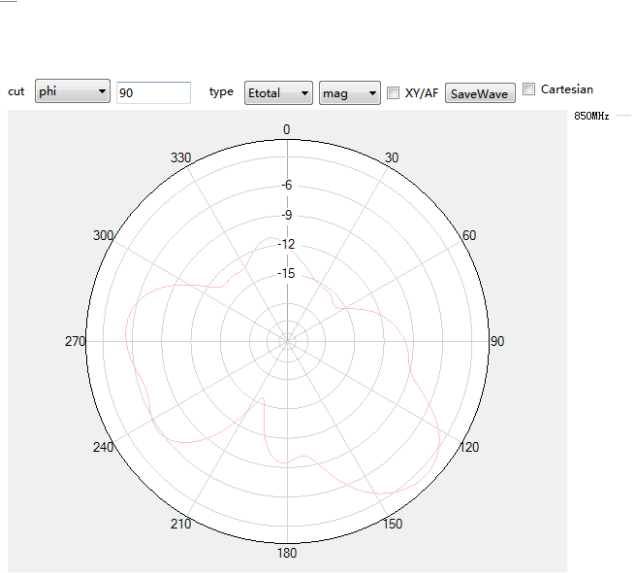
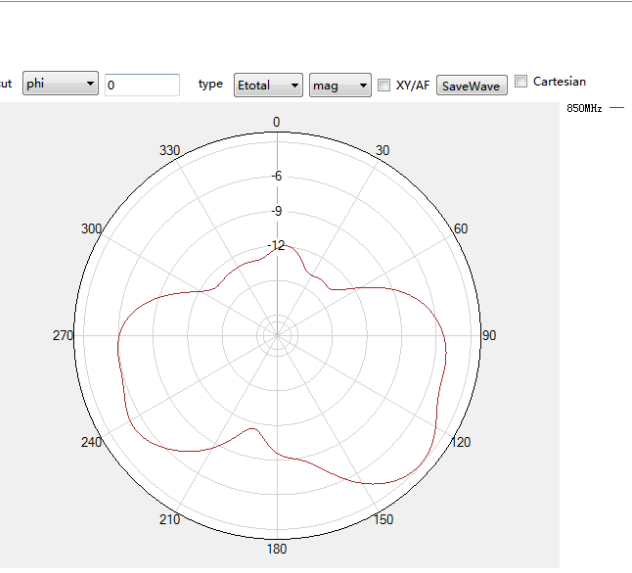
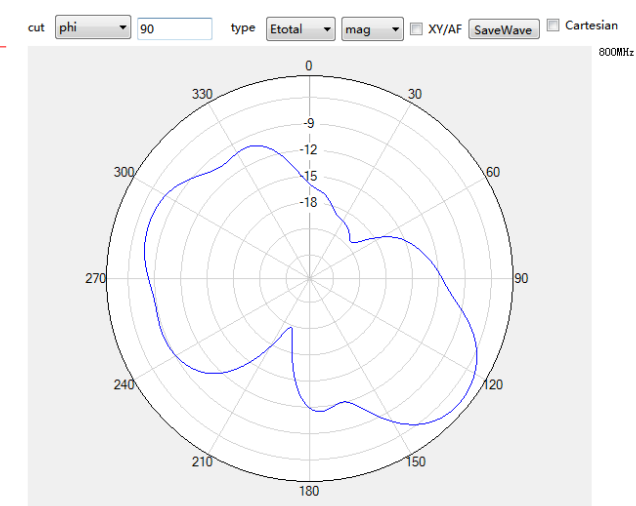
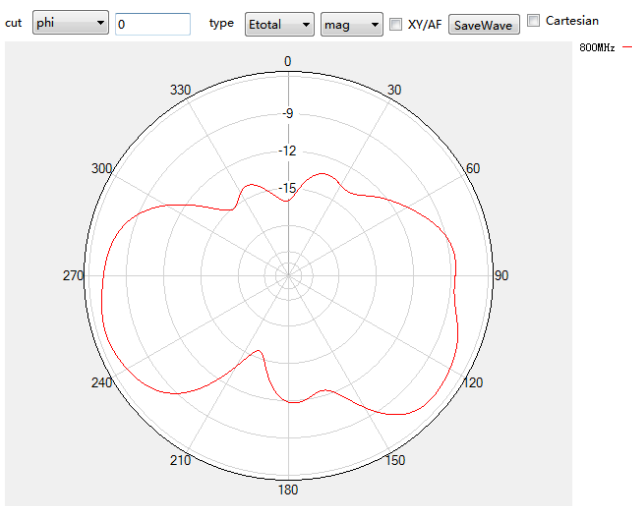
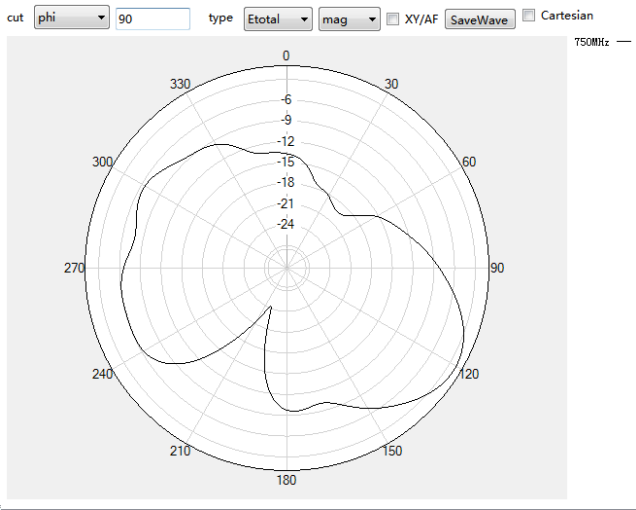
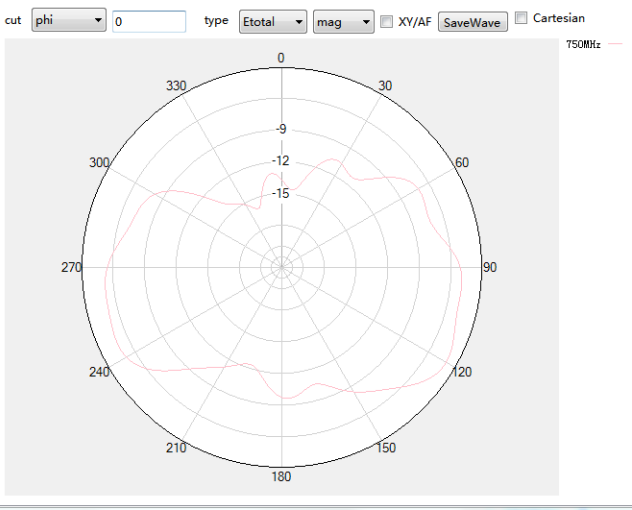
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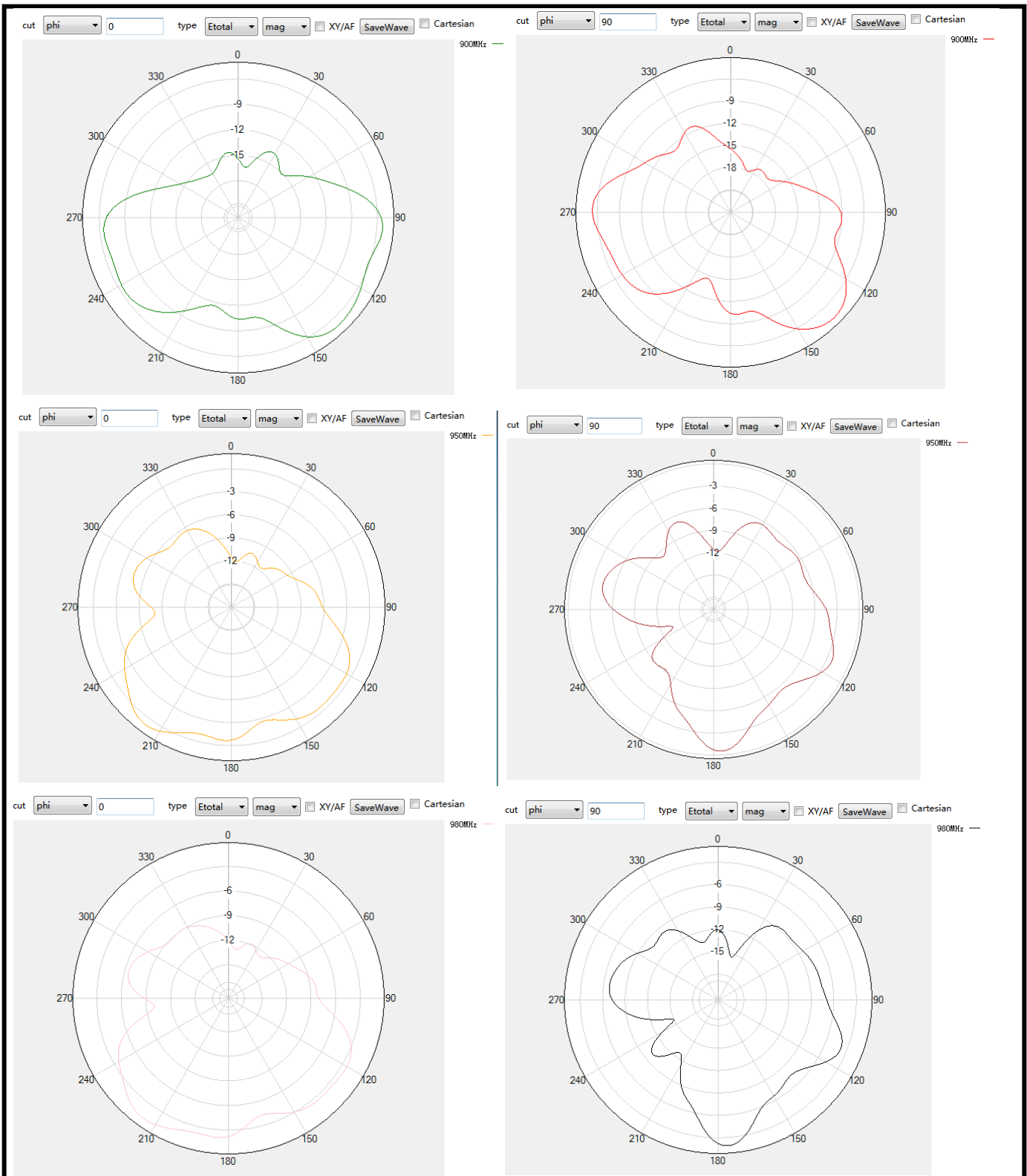
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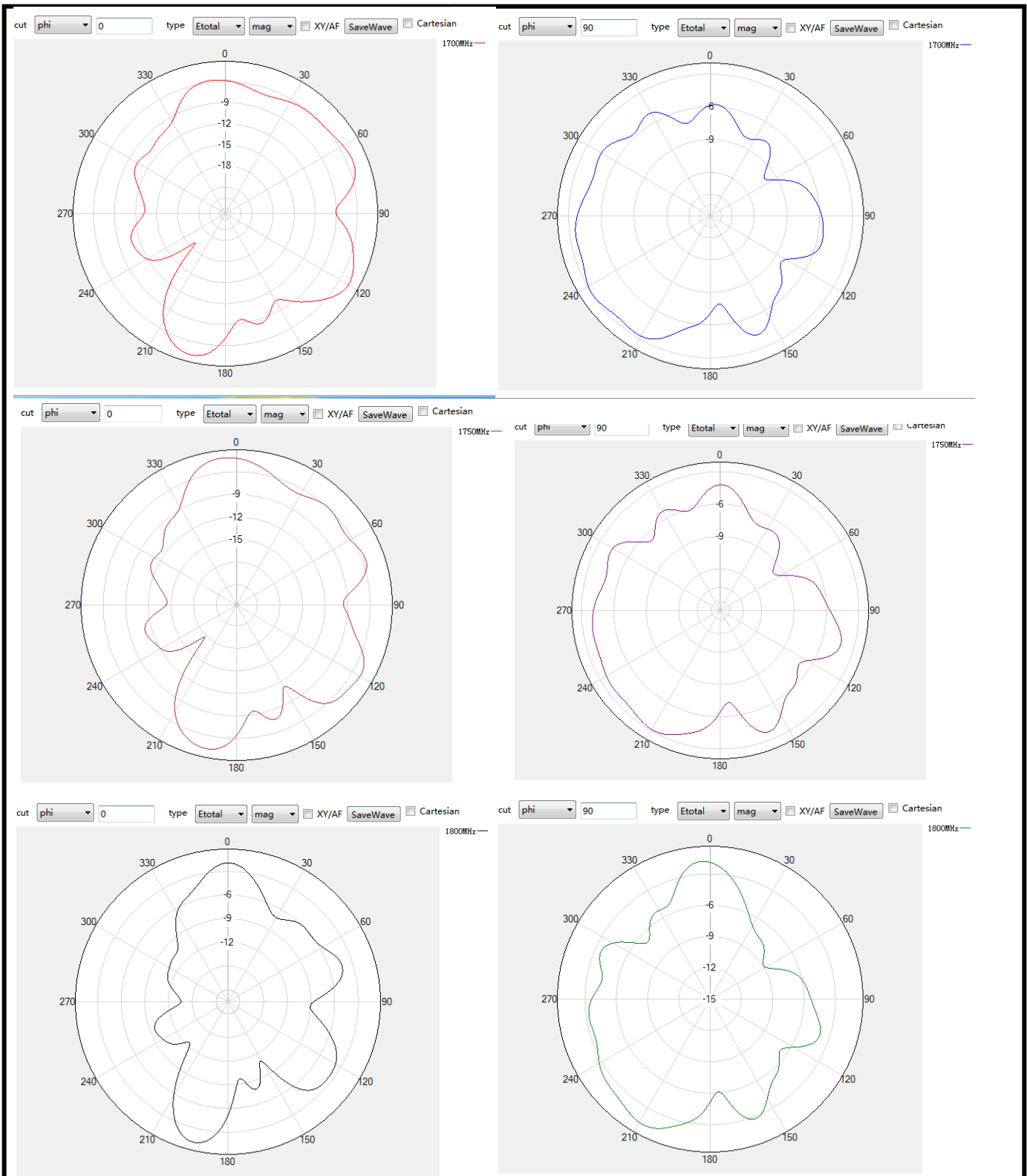
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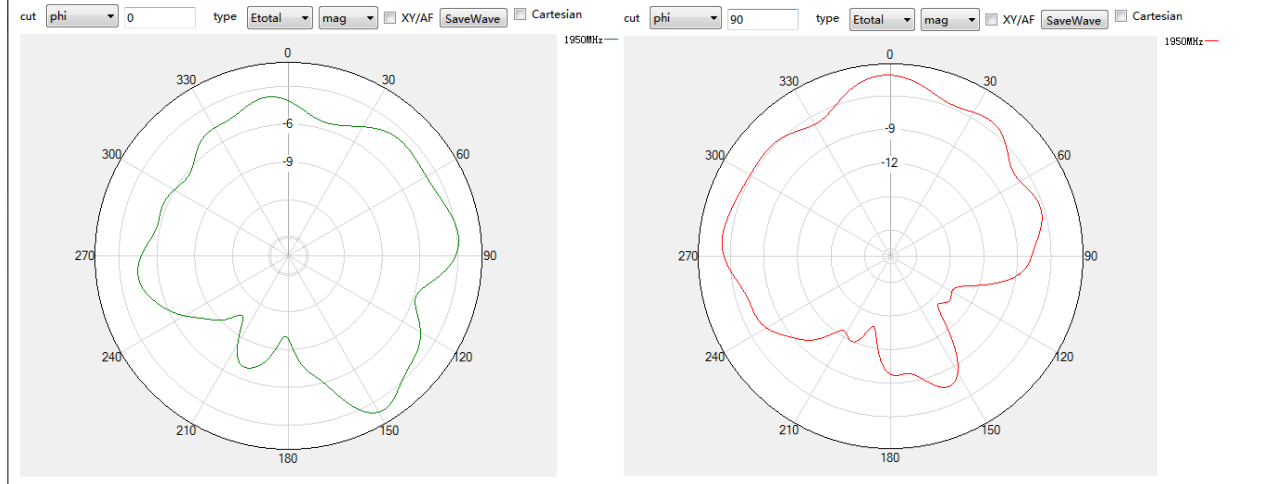
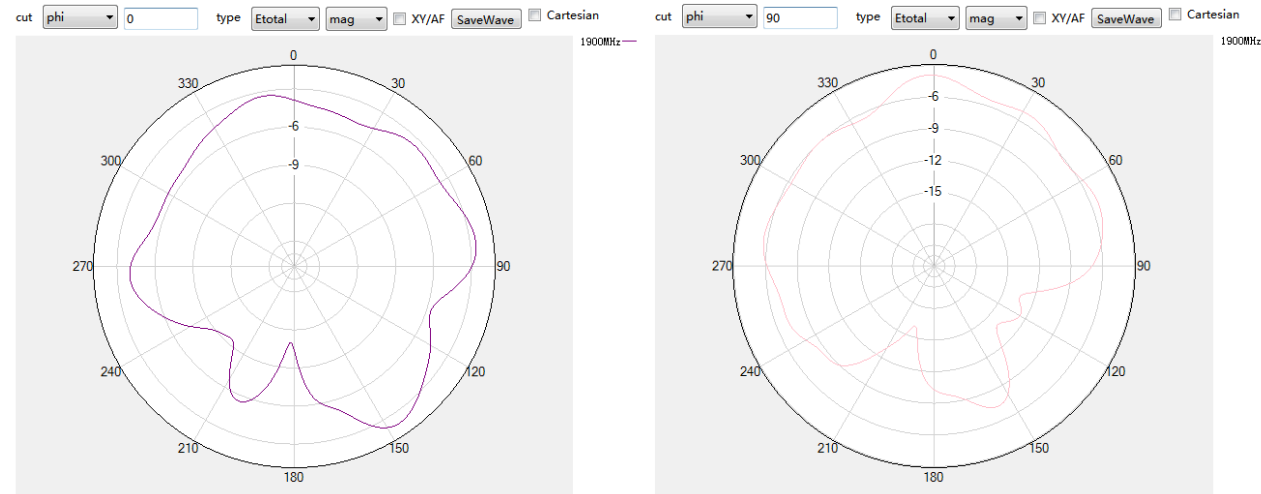
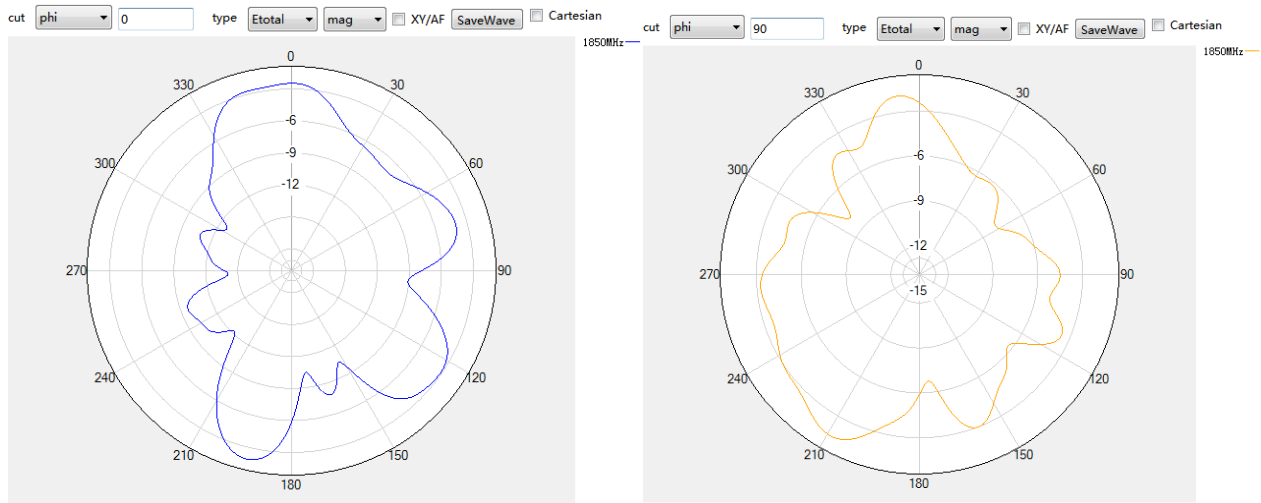
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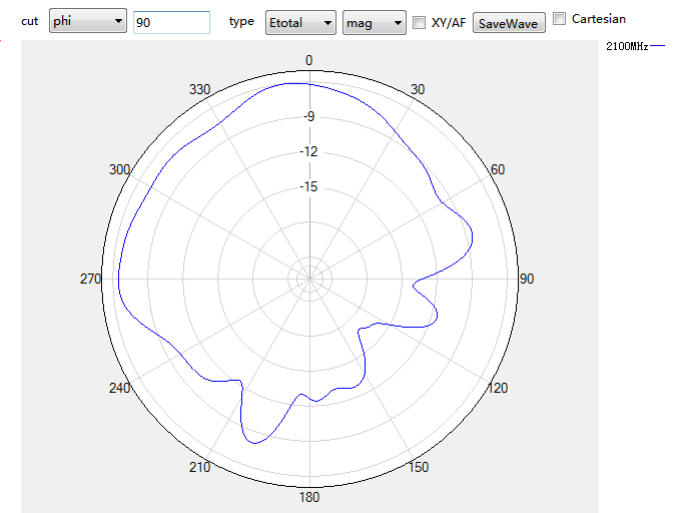
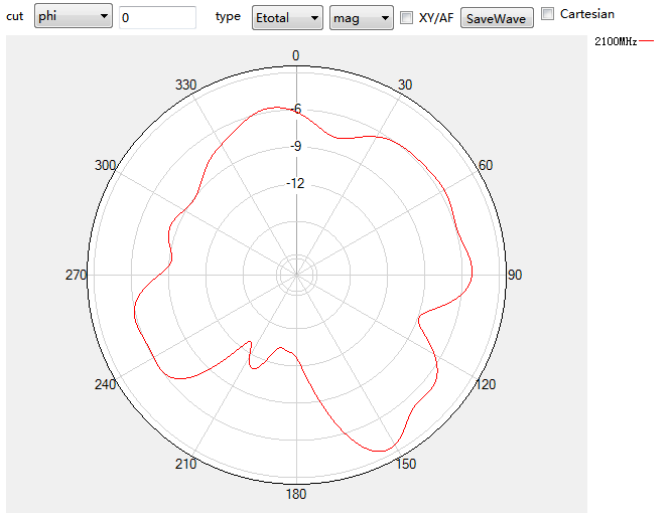
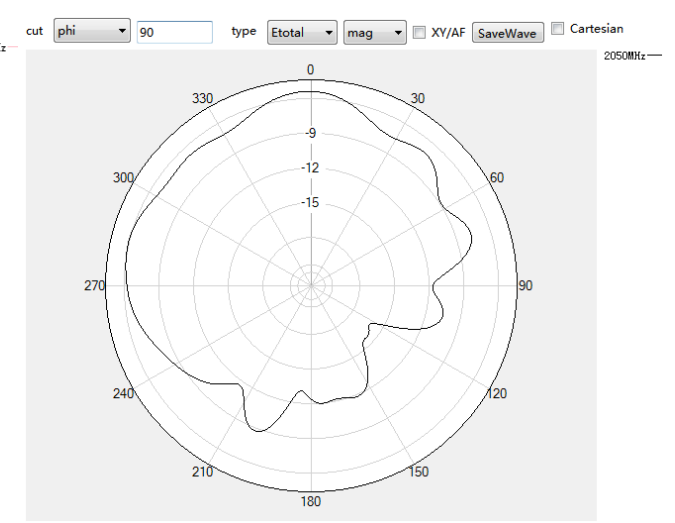
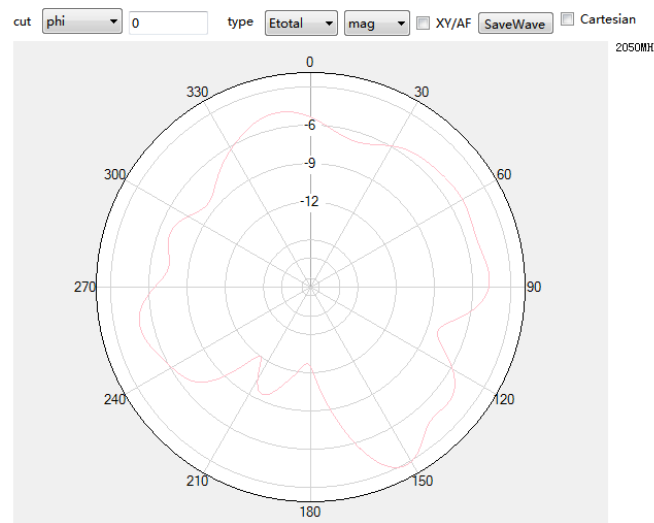
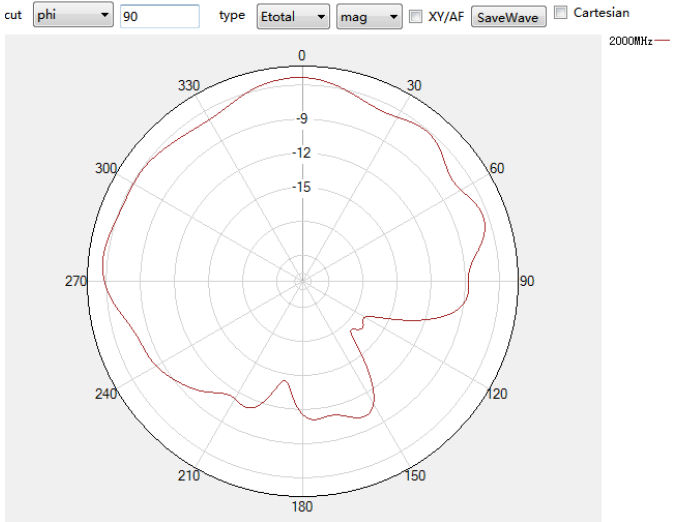
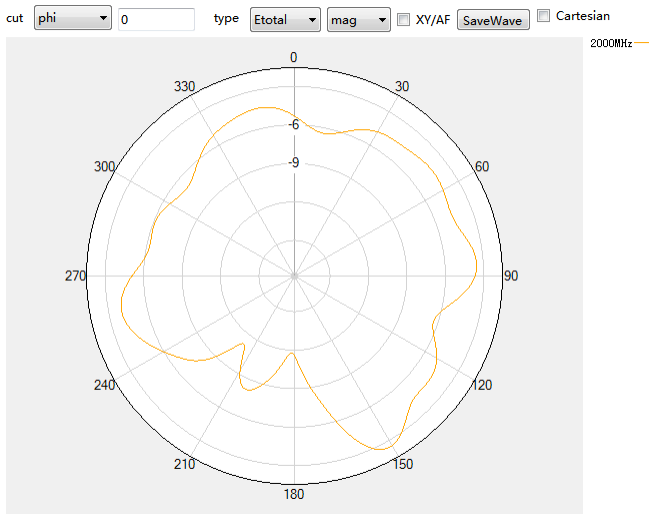


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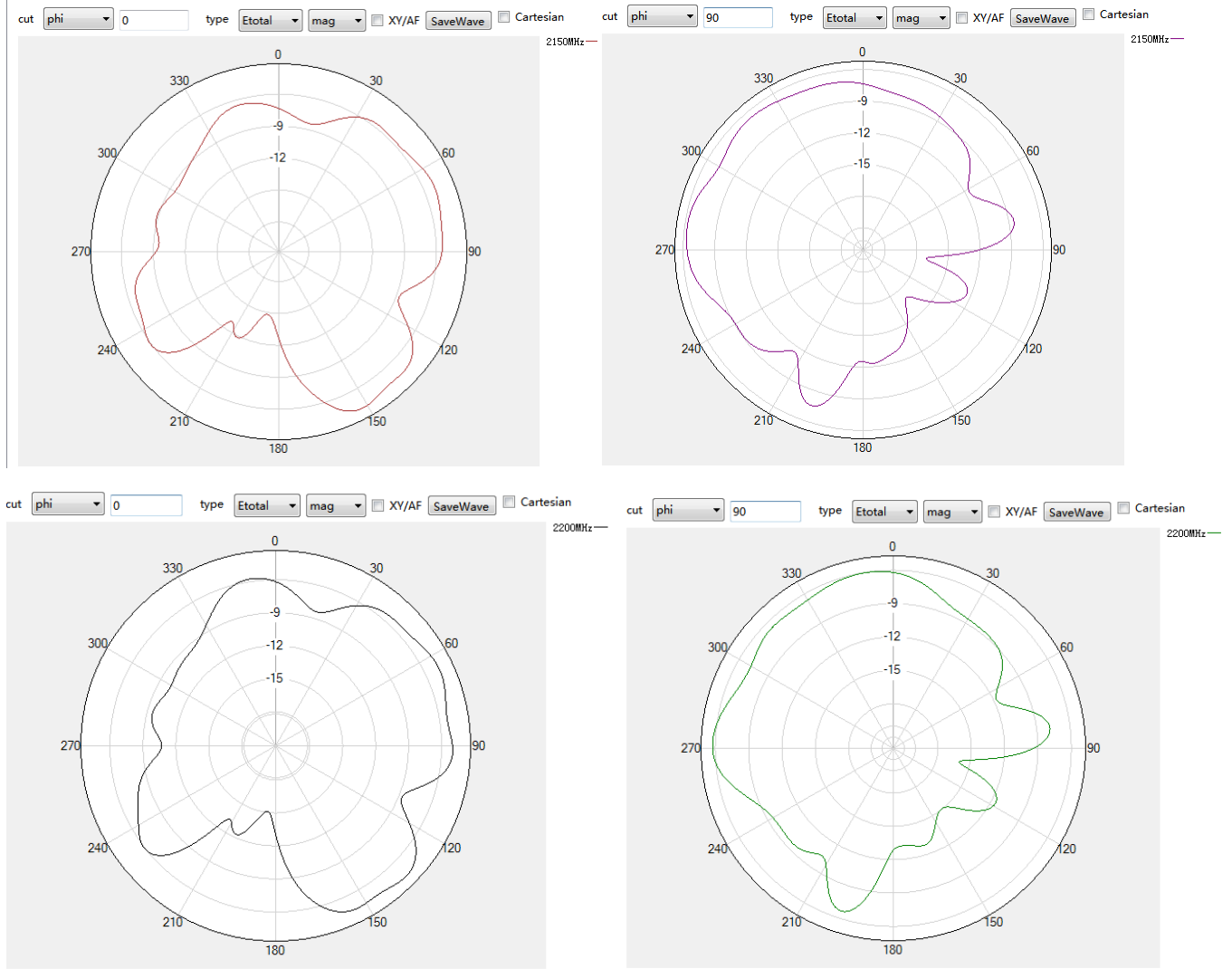
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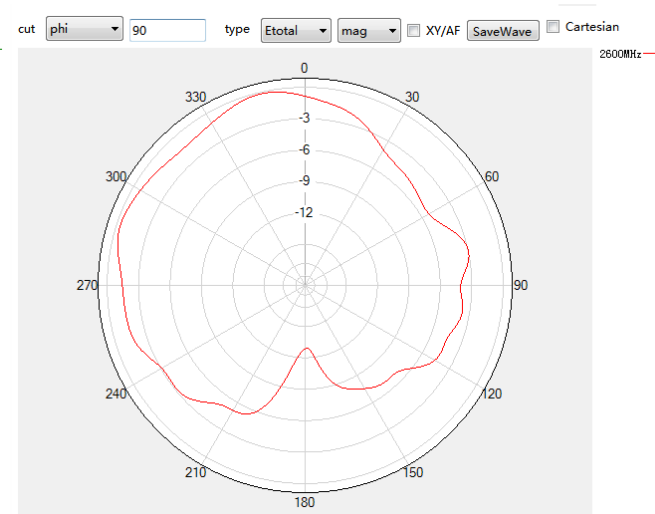
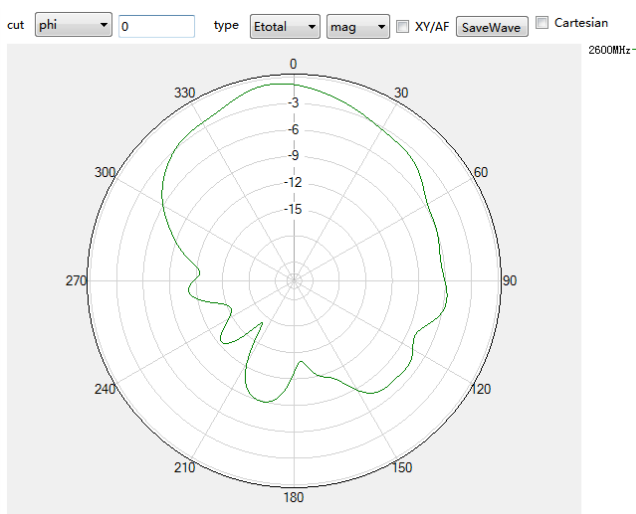
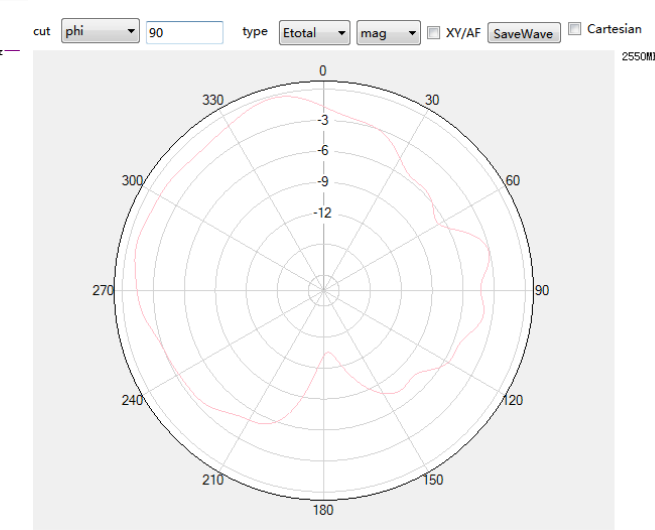
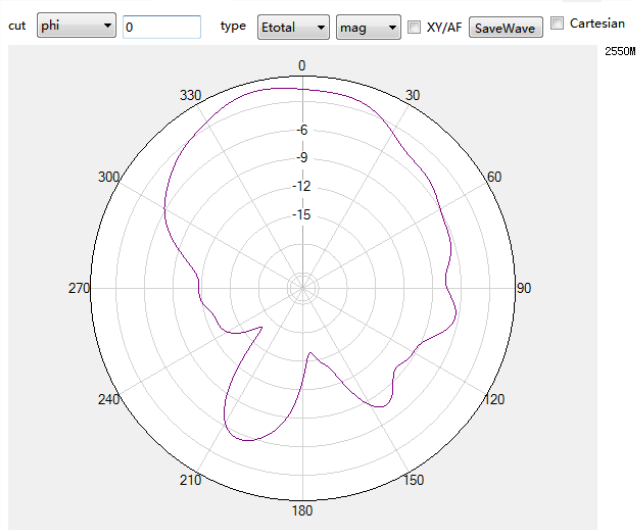
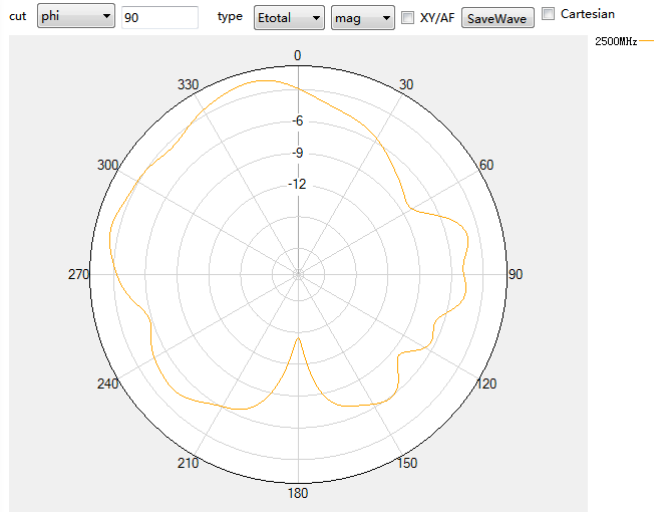
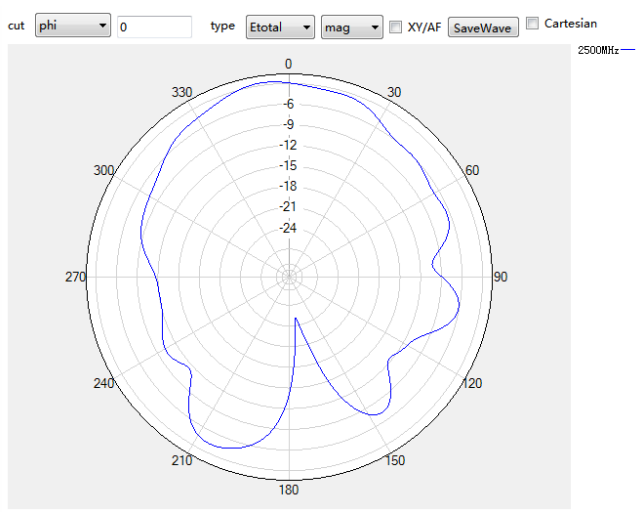
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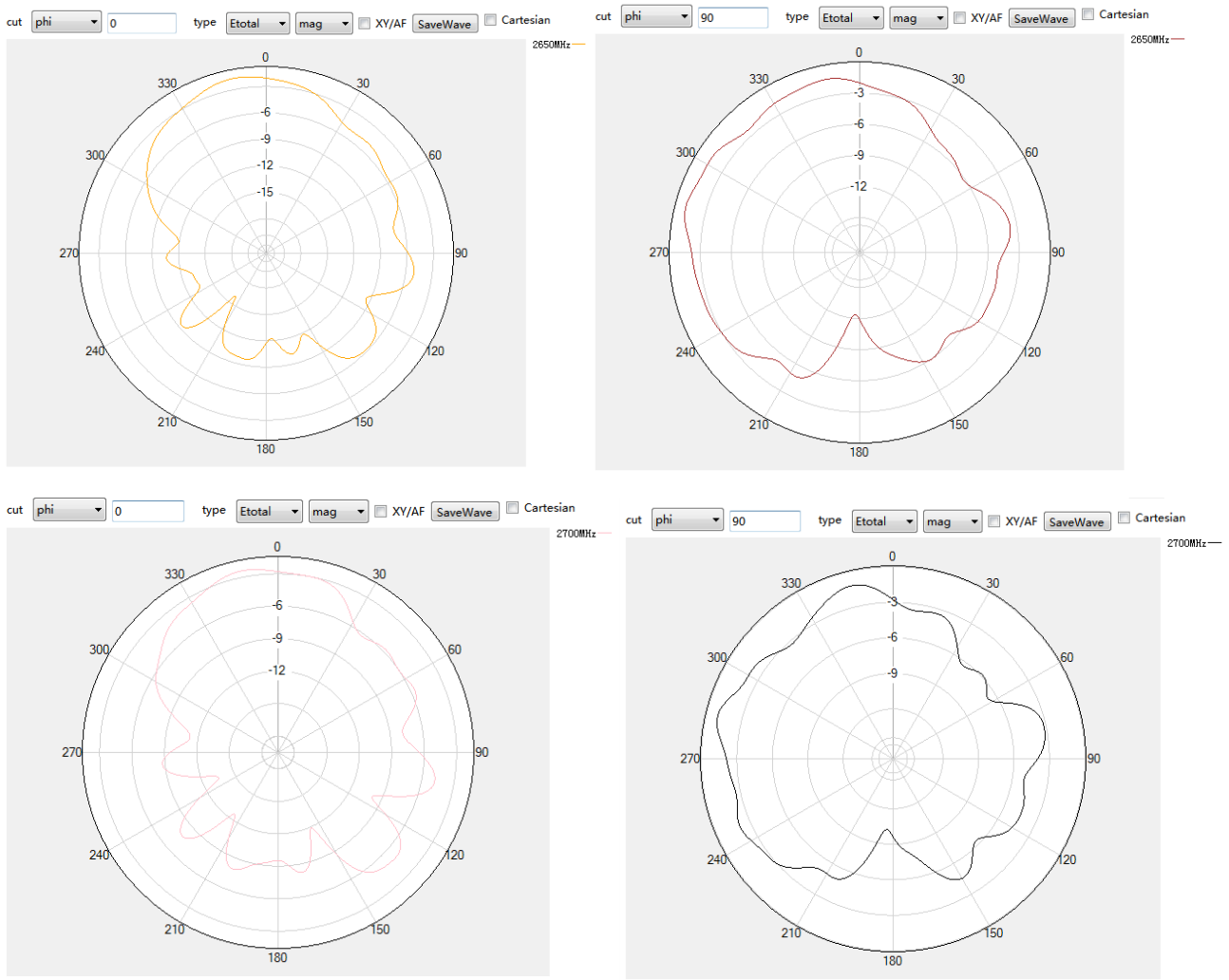
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