



Product specification

客 户: Shenzhen Fibocom Wireless Co., Ltd.


客户编码: _____

产品描述: 5G external rubber sleeve antenna

制造商编码: GHT-019A (RA version)

产品制造商: Shenzhen Bogesi Communication Technology Co., Ltd.

承认日期: 2021/8/9

Supplier signature	Customer signature
	

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深圳市博格斯通信技术有限公司

shenzhen bogesi communication technology co., ltd

Use range:

Applicable to Shenzhen Fibocom Wireless Co., Ltd. 5G antenna solution.

Electrical Specifications:

Electrical Specifications	700-1000MHz;1400-6000MHz	Material	ABS
input resistance	50 Ω	Plastic material	Rubber cap:ABS
Standing wave ratio	≤3.0		Adapter 1: ABS
Polarization mode	Linear polarization		Adapter 2:ABS
Operating temperature	- 40 °C ~ + 65 °C	RF cable specifications	RG-178
Storage temperature	- 40 °C ~ + 80 °C	Connector specifications	SMA Male J
Connector torque test	200 ~ 1000 g.cm	Joint tension test	SMA ≥3 Kg
Gain	700-1000MHz:1.17dBi	Connector torque test	200 ~ 1000 g.cm
	1400-1690MHz:3.21dBi		
	1700-2000MHz:3.10dBi		
	2010-2480MHz:3.36dBi		
	2490-2750/3350-3570MHz:2.56dBi		
	3580-3850MHz:2.99dBi		
	5000-5490MHz:4.49dBi		
	5500-6000MHz:3.32dBi		

Test conditions and methods:

Test conditions and instruments	Test Methods	Test Results
Microwave anechoic chamber far-field test system Aglient E5071B network analyzer	<ol style="list-style-type: none"> 1. Assemble the antenna to be tested on the prototype and make a passive test fixture 2. Put the passive fixture on the test fixture in the dark room and establish a connection with the network analyzer 3. Use test software to test antenna passive data 	See test data



Test data:

BGS-036(700-1000)_30du	Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
	700	4.06	-4.12	38.75	-0.06
710	4.27	-4.09	39.04	0.19	
720	4.40	-3.87	41.02	0.53	
730	4.42	-3.71	42.52	0.71	
740	4.49	-3.75	42.14	0.74	
750	4.52	-3.91	40.62	0.60	
760	4.60	-3.93	40.44	0.66	
770	4.65	-3.90	40.76	0.76	
780	4.57	-3.65	43.11	0.92	
790	4.29	-3.34	46.32	0.94	
800	3.85	-3.12	48.71	0.72	
810	3.38	-2.97	50.49	0.41	
820	2.98	-2.82	52.19	1.42	
830	2.64	-2.65	54.28	1.55	
840	2.33	-2.35	58.15	1.61	
850	2.03	-1.91	64.47	1.66	
860	1.72	-1.46	71.43	1.61	
870	1.85	-1.13	77.15	1.55	
880	2.20	-1.02	79.03	1.17	
890	2.30	-1.21	75.66	1.91	
900	2.24	-1.58	69.49	0.66	
910	2.08	-1.83	65.60	0.25	
920	1.94	-2.10	61.70	-0.16	
930	2.01	-2.33	58.51	-0.32	
940	2.29	-2.63	54.60	-0.34	
950	2.63	-3.17	48.21	-0.54	
960	2.84	-4.02	39.59	-1.19	
970	2.86	-5.11	30.86	-2.25	
980	2.83	-6.14	24.34	-3.31	
990	2.96	-7.09	19.55	-4.13	
1000	3.30	-7.55	17.57	-4.26	

BGS-036(1400-1690)_30du	Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
	1400	3.67	-0.82	82.77	1.85
1410	3.49	-0.88	81.60	1.61	
1420	3.34	-0.92	80.85	1.42	
1430	3.35	-0.76	83.95	1.59	
1440	3.51	-0.57	87.70	1.94	
1450	3.71	-0.49	89.24	1.22	
1460	3.88	-0.51	88.83	1.36	
1470	3.90	-0.74	84.33	1.16	
1480	3.81	-0.89	81.41	1.92	
1490	3.68	-0.98	79.86	1.70	
1500	3.63	-0.85	82.17	1.78	
1510	3.70	-0.76	84.04	2.94	
1520	3.84	-0.73	84.47	3.10	
1530	3.92	-0.71	84.83	3.21	
1540	3.91	-1.01	79.19	2.90	
1550	3.87	-1.21	75.68	2.66	
1560	3.81	-1.33	73.68	2.48	
1570	3.80	-1.28	74.45	2.52	
1580	3.87	-1.10	77.67	2.77	
1590	3.99	-0.96	80.24	3.04	
1600	4.09	-0.99	79.62	3.10	
1610	4.13	-1.14	76.92	2.99	
1620	4.13	-1.32	73.76	2.81	
1630	4.12	-1.53	70.25	2.59	
1640	4.16	-1.56	69.82	2.60	
1650	4.31	-1.43	71.93	2.88	
1660	4.46	-1.27	74.63	2.19	
1670	4.60	-1.10	77.58	2.50	
1680	4.72	-1.09	77.74	2.62	
1690	4.79	-1.16	76.54	2.63	

BGS-036(1700-2000)_30du	Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
	1700	4.84	-0.99	79.71	1.81
	1710	4.87	-1.13	77.05	1.88
	1720	4.89	-1.03	78.81	1.86
	1730	4.88	-1.00	79.47	1.89
	1740	4.86	-0.92	80.92	1.94
	1750	4.80	-0.98	79.75	1.82
	1760	4.70	-1.12	77.25	1.58
	1770	4.64	-1.35	73.33	1.29
	1780	4.59	-1.48	71.12	1.11
	1790	4.58	-1.48	71.06	2.10
	1800	4.59	-1.51	70.55	3.08
	1810	4.60	-1.50	70.86	3.10
	1820	4.60	-1.61	68.98	2.99
	1830	4.59	-1.78	66.43	2.81
	1840	4.56	-1.92	64.24	2.64
	1850	4.57	-2.07	62.06	2.50
	1860	4.59	-2.09	61.82	2.50
	1870	4.63	-2.03	62.66	2.63
	1880	4.66	-1.89	64.75	1.77
	1890	4.64	-1.79	66.19	1.85
	1900	4.58	-1.84	65.45	1.74
	1910	4.50	-1.92	64.22	1.80
	1920	4.41	-2.13	61.20	1.33
1930	4.31	-2.25	59.50	1.44	
1940	4.23	-2.36	58.01	1.42	
1950	4.18	-2.23	59.88	1.33	
1960	4.10	-2.27	59.32	1.33	
1970	3.97	-2.35	58.17	1.42	
1980	3.89	-2.49	56.35	1.40	
1990	3.85	-2.70	53.71	1.15	
2000	3.89	-2.82	52.24	1.07	

BGS-036(2010-2480)_30du	Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
	2010	3.96	-2.82	52.22	1.14
	2020	4.09	-2.69	53.82	1.40
	2030	4.18	-2.53	55.84	1.65
	2040	4.19	-2.45	56.95	1.75
	2050	4.17	-2.46	56.74	1.71
	2060	4.14	-2.49	56.37	1.65
	2070	4.16	-2.60	54.96	1.56
	2080	4.21	-2.67	54.13	1.54
	2090	4.29	-2.74	53.26	1.55
	2100	4.35	-2.68	53.90	1.67
	2110	4.36	-2.83	52.08	1.53
	2120	4.30	-3.00	50.09	1.30
	2130	4.23	-3.16	48.29	1.07
	2140	4.20	-3.32	46.54	0.88
	2150	4.25	-3.33	46.42	0.92
	2160	4.36	-3.30	46.80	1.07
	2170	4.47	-3.16	48.33	1.31
	2180	4.52	-2.98	50.40	1.54
	2190	4.50	-2.84	52.00	1.66
	2200	4.46	-2.70	53.68	1.76
	2210	4.43	-2.66	54.21	1.77
	2220	4.50	-2.51	56.17	2.00
	2230	4.60	-2.22	60.04	2.39
	2240	4.69	-1.81	65.86	2.88
	2250	4.66	-1.39	72.60	3.27
	2260	4.53	-1.17	76.43	3.36
	2270	4.34	-1.06	78.36	3.28
	2280	4.19	-1.18	76.19	3.01
	2290	4.14	-1.23	75.29	2.91
	2300	4.13	-1.38	72.78	2.75
	2310	4.15	-1.45	71.54	2.70
	2320	4.12	-1.47	71.23	2.65
	2330	3.96	-1.55	69.94	2.40
	2340	3.74	-1.59	69.41	2.15
	2350	3.57	-1.76	66.70	1.81
	2360	3.47	-1.87	65.07	1.60
2370	3.48	-1.89	64.71	1.59	
2380	3.51	-1.89	64.65	1.62	
2390	3.55	-1.84	65.49	1.71	
2400	3.50	-1.87	65.04	1.63	
2410	3.37	-1.87	65.08	1.51	
2420	3.30	-1.96	63.67	1.34	
2430	3.26	-2.10	61.64	1.16	
2440	3.28	-2.08	61.89	1.20	
2450	3.39	-2.03	62.62	1.35	
2460	3.48	-1.86	65.23	1.62	
2470	3.49	-1.66	68.19	1.83	
2480	3.47	-1.43	71.97	1.04	

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
2490	3.36	-1.27	74.58	1.08
2500	3.34	-1.24	75.22	1.10
2510	3.40	-1.25	74.91	1.14
2520	3.42	-1.30	74.20	1.13
2530	3.44	-1.30	74.18	1.52
2540	3.47	-1.20	75.86	1.27
2550	3.56	-1.16	76.53	0.98
2560	3.61	-1.17	76.46	1.07
2570	3.64	-1.29	74.23	1.35
2580	3.64	-1.36	73.06	1.28
2590	3.52	-1.48	71.18	1.04
2600	3.40	-1.56	69.79	1.83
2610	3.34	-1.69	67.81	1.66
2620	3.31	-1.79	66.17	1.52
2630	3.38	-1.84	65.48	1.54
2640	3.43	-1.98	63.45	1.46
2650	3.42	-2.09	61.79	1.33
2660	3.37	-2.13	61.27	1.24
2670	3.30	-2.23	59.78	1.06
2680	3.25	-2.22	60.02	1.04
2690	3.27	-2.18	60.47	1.09
2700	3.30	-2.17	60.62	1.12
2710	3.36	-2.07	62.04	1.29
2720	3.37	-2.07	62.06	1.30
2730	3.34	-2.12	61.36	1.22
2740	3.30	-2.19	60.42	1.12
2750	3.45	-2.13	61.18	1.32
3350	3.25	-1.77	66.50	1.48
3360	3.27	-1.70	67.67	1.57
3370	3.26	-1.68	67.85	1.58
3380	3.19	-1.72	67.31	1.47
3390	3.11	-1.65	68.38	1.46
3400	3.02	-1.61	68.98	1.41
3410	2.98	-1.57	69.71	1.41
3420	2.90	-1.51	70.65	1.39
3430	2.80	-1.53	70.38	1.27
3440	2.88	-1.53	70.26	1.35
3450	3.03	-1.50	70.84	1.54
3460	3.26	-1.45	71.60	1.81
3470	3.59	-1.39	72.61	2.25
3480	3.91	-1.35	73.33	2.56
3490	4.12	-1.37	73.01	1.75
3500	4.32	-1.40	72.46	1.93
3510	4.44	-1.51	70.69	1.94
3520	4.53	-1.64	68.60	1.89
3530	4.71	-1.63	68.66	1.07
3540	4.87	-1.63	68.76	1.24
3550	5.01	-1.50	70.78	1.51
3560	5.15	-1.34	73.44	1.81
3570	5.20	-1.22	75.57	1.99

BGS-036(2490-2750,3350-3570)_30du

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
3580	5.21	-1.17	76.38	2.04
3590	5.08	-1.24	75.16	1.84
3600	5.02	-1.28	74.56	1.74
3610	4.92	-1.36	73.07	1.56
3620	4.90	-1.40	72.47	1.50
3630	4.85	-1.45	71.69	1.41
3640	4.86	-1.51	70.57	1.35
3650	4.79	-1.60	69.23	1.19
3660	4.76	-1.64	68.51	1.12
3670	4.76	-1.70	67.68	1.07
3680	4.76	-1.67	68.15	1.09
3690	4.86	-1.65	68.36	1.21
3700	4.86	-1.70	67.53	1.16
3710	4.75	-1.85	65.26	1.90
3720	4.65	-1.88	64.90	1.77
3730	4.56	-1.97	63.58	1.99
3740	4.58	-1.95	63.80	2.33
3750	4.58	-1.90	64.59	2.55
3760	4.76	-1.80	66.04	2.99
3770	4.89	-1.66	68.18	2.88
3780	4.88	-1.60	69.21	2.21
3790	4.75	-1.59	69.31	1.99
3800	4.71	-1.61	69.07	1.10
3810	4.49	-1.70	67.61	2.79
3820	4.41	-1.69	67.72	2.72
3830	4.40	-1.72	67.30	2.68
3840	4.44	-2.01	62.88	2.43
3850	4.41	-1.70	67.58	2.70

BGS-036(3580-3850)_30du

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
5000	6.12	-1.81	65.87	4.31
5010	6.15	-1.83	65.59	4.32
5020	6.13	-1.80	66.05	4.32
5030	6.12	-1.89	64.65	4.23
5040	6.14	-2.09	61.78	4.05
5050	6.09	-2.09	61.74	3.99
5060	6.09	-2.09	61.74	4.00
5070	6.02	-2.04	62.56	3.98
5080	6.11	-2.07	62.13	4.04
5090	6.12	-2.07	62.07	4.05
5100	6.13	-2.04	62.55	4.09
5110	6.17	-2.00	63.11	4.17
5120	6.17	-2.08	61.96	4.09
5130	6.21	-2.08	61.90	4.13
5140	6.26	-2.14	61.05	4.12
5150	6.32	-2.26	59.39	4.06
5160	6.31	-2.13	61.26	4.18
5170	6.34	-2.20	60.31	4.15
5180	6.29	-2.20	60.32	4.09
5190	6.39	-2.20	60.28	4.19
5200	6.41	-2.23	59.77	4.17
5210	6.40	-2.244	59.67	4.15
5220	6.40	-2.12	61.40	4.29
5230	6.42	-2.20	60.32	4.22
5240	6.45	-2.22	59.91	4.22
5250	6.49	-2.28	59.18	4.21
5260	6.47	-2.33	58.45	4.14
5270	6.45	-2.37	57.99	4.08
5280	6.52	-2.31	58.73	4.21
5290	6.60	-2.34	58.33	4.25
5300	6.66	-2.36	58.13	4.30
5310	6.68	-2.37	57.89	4.31
5320	6.68	-2.31	58.70	4.36
5330	6.69	-2.26	59.47	4.43
5340	6.71	-2.28	59.10	4.43
5350	6.70	-2.29	58.97	4.40
5360	6.73	-2.26	59.37	4.46
5370	6.74	-2.25	59.59	4.49
5380	6.77	-2.31	58.79	4.47
5390	6.78	-2.35	58.26	4.44
5400	6.79	-2.45	56.87	4.34
5410	6.79	-2.50	56.20	4.29
5420	6.74	-2.58	55.27	4.17
5430	6.70	-2.61	54.81	4.09
5440	6.70	-2.73	53.32	3.97
5450	6.61	-2.72	53.49	3.89
5460	6.57	-2.80	52.53	3.77
5470	6.51	-2.83	52.14	3.68
5480	6.49	-2.83	52.08	3.66
5490	6.36	-2.88	51.49	3.47

BCS-036(5000-5490)_30da

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
5500	6.30	-2.98	50.41	3.32
5510	6.24	-3.07	49.35	3.17
5520	6.17	-3.15	48.37	3.02
5530	6.07	-3.18	48.14	2.89
5540	5.97	-3.19	48.00	2.78
5550	5.83	-3.18	48.05	2.65
5560	5.75	-3.18	48.05	2.56
5570	5.61	-3.25	47.30	2.36
5580	5.56	-3.26	47.21	2.30
5590	5.42	-3.30	46.82	2.12
5600	5.26	-3.32	46.61	1.94
5620	4.85	-3.19	47.96	1.66
5630	4.65	-3.19	47.94	1.45
5640	4.55	-3.20	47.84	1.34
5650	4.48	-3.27	47.15	1.21
5660	4.33	-3.21	47.72	1.12
5670	4.25	-3.10	48.94	1.15
5680	3.97	-2.98	50.33	0.99
5690	3.90	-2.93	50.99	0.98
5700	3.90	-2.89	51.42	1.01
5710	4.11	-2.94	50.81	1.17
5720	4.10	-2.97	50.42	1.13
5730	4.02	-3.00	50.08	1.01
5740	4.03	-2.89	51.42	1.14
5750	4.03	-2.86	51.74	1.17
5760	4.14	-2.83	52.08	1.31
5770	4.02	-2.84	52.04	1.19
5780	4.01	-2.88	51.54	1.13
5790	4.05	-2.92	51.07	1.14
5800	4.11	-2.92	51.01	1.19
5810	4.09	-2.93	50.94	1.16
5820	4.12	-2.90	51.27	1.22
5830	4.17	-2.90	51.32	1.28
5840	4.05	-2.83	52.12	1.22
5850	4.18	-2.71	53.63	1.47
5860	4.22	-2.78	52.69	1.44
5870	4.27	-2.80	52.43	1.46
5880	4.17	-2.83	52.15	1.34
5890	4.07	-2.76	52.93	1.30
5900	4.03	-2.70	53.67	1.33
5910	3.97	-2.65	54.27	1.31
5920	3.92	-2.71	53.52	1.21
5930	3.92	-2.85	51.93	1.08
5940	3.84	-2.91	51.14	0.92
5950	3.71	-2.95	50.66	0.76
5960	3.80	-2.90	51.24	0.90
5970	3.83	-2.81	52.36	1.02
5980	3.81	-2.78	52.76	1.04
5990	3.77	-2.81	52.31	0.96
6000	3.80	-2.83	52.07	0.96

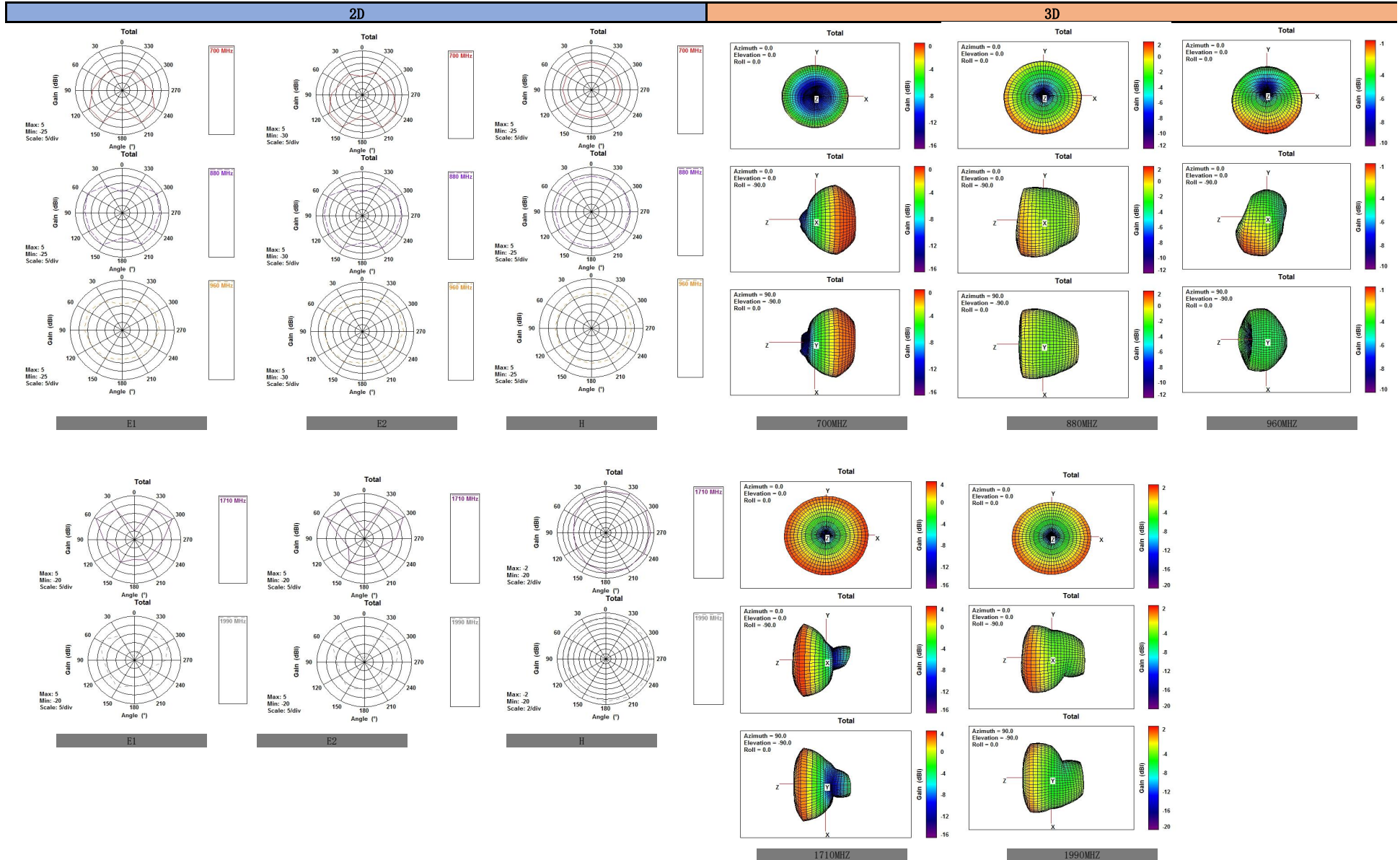
BCS-036(5500-6000)_30da

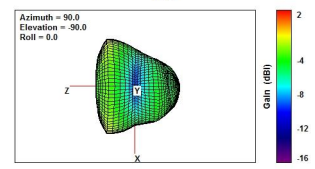
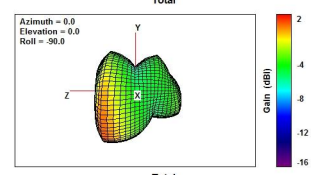
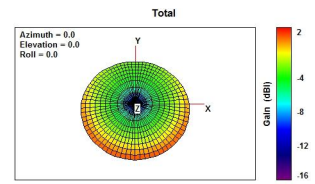
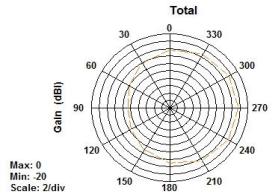
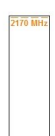
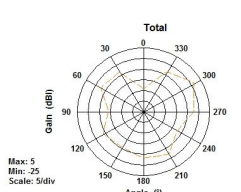
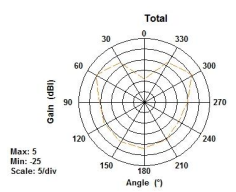


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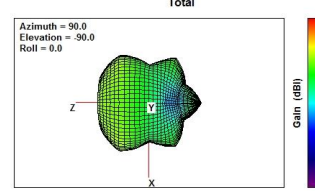
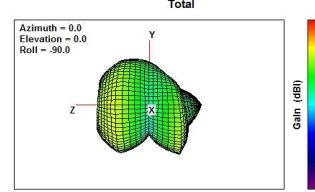
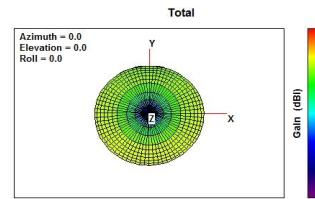
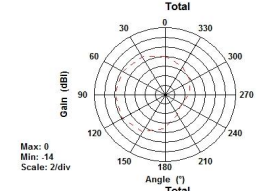
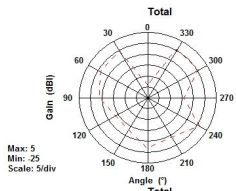
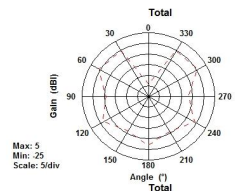
shenzhen bogesi communication technology co.,ltd

Direction map:

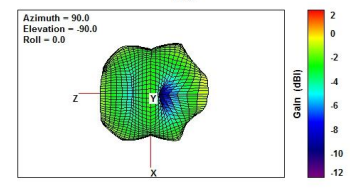
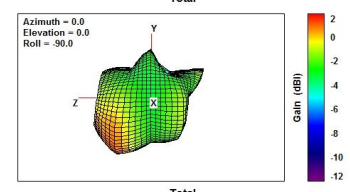
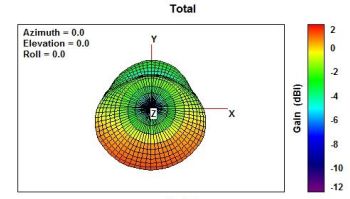




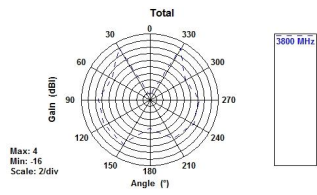
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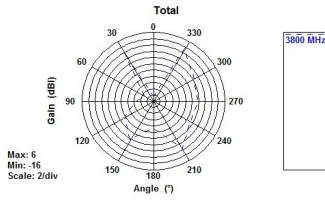
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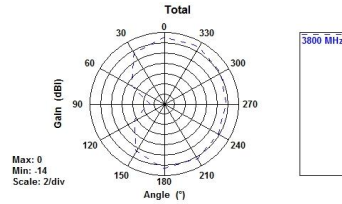
3350MHZ



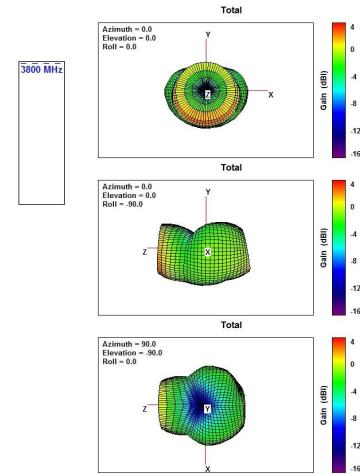
E1



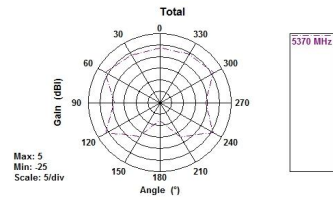
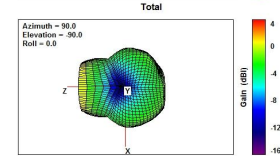
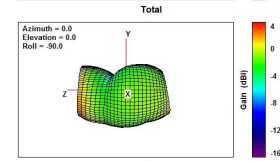
E2



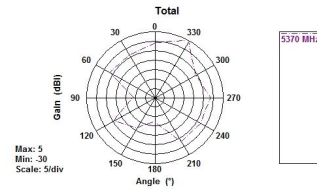
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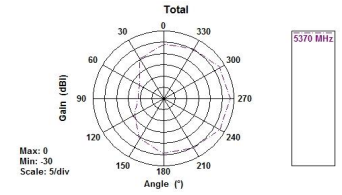
3800MHZ



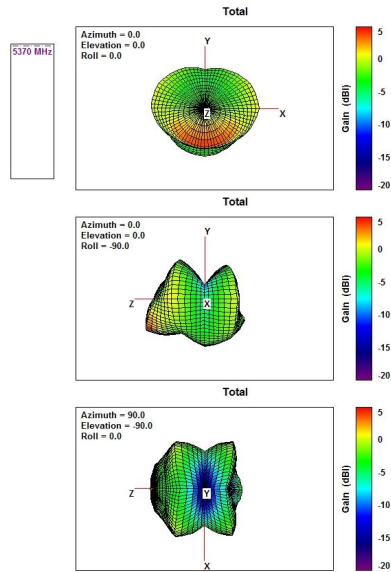
E1



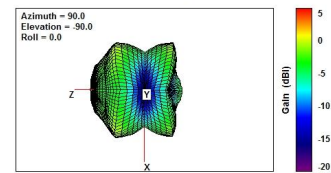
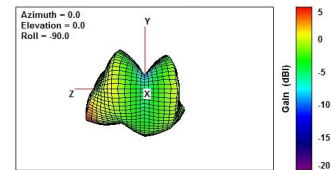
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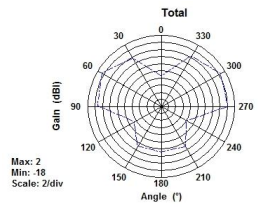


H



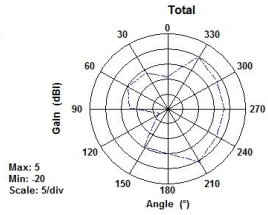
5370MHZ





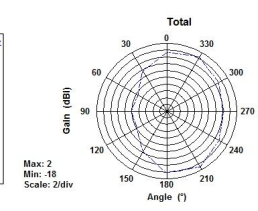
E1

6000 MHz



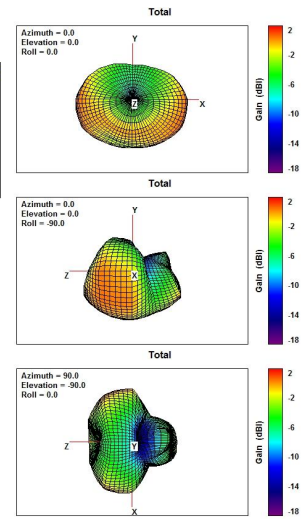
E2

6000 MHz



H

6000 MHz

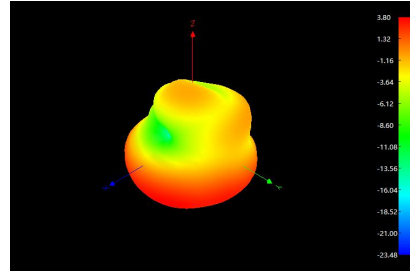
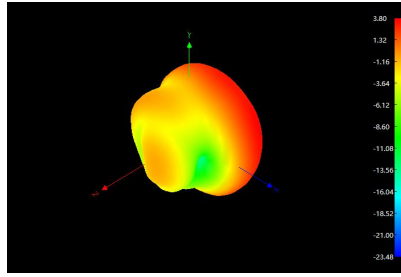
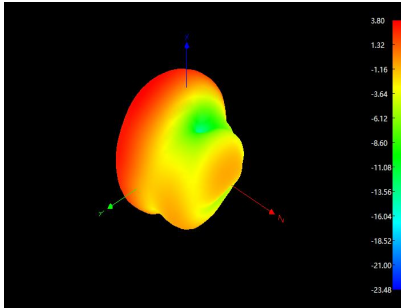


6000MHZ

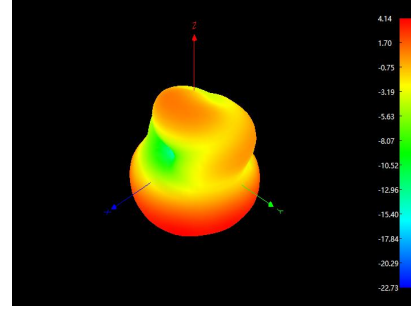
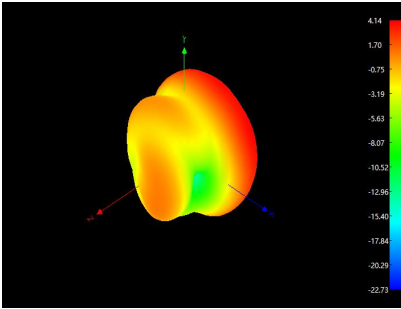
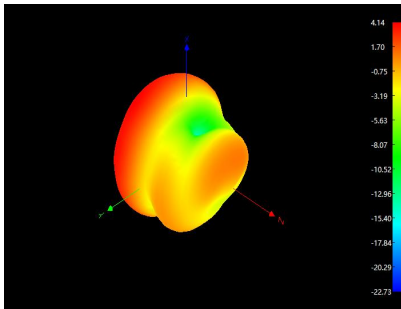


Direction map:

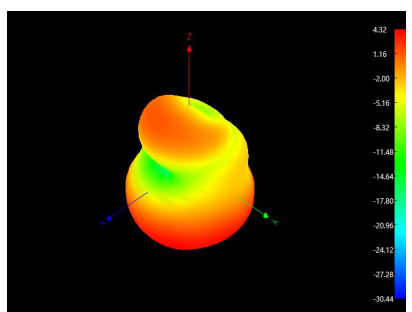
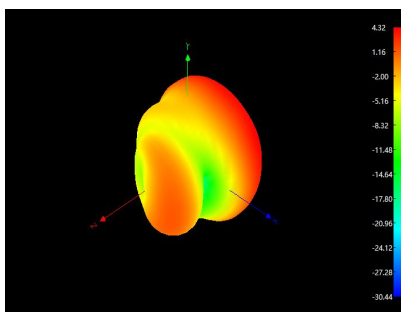
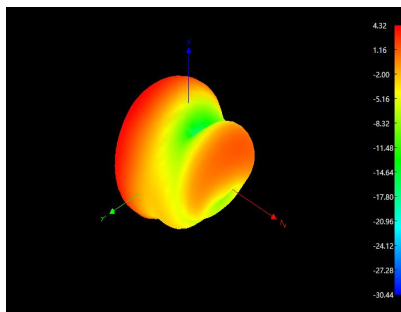
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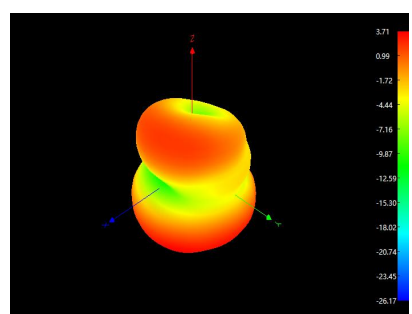
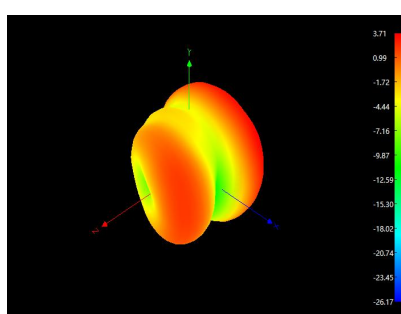
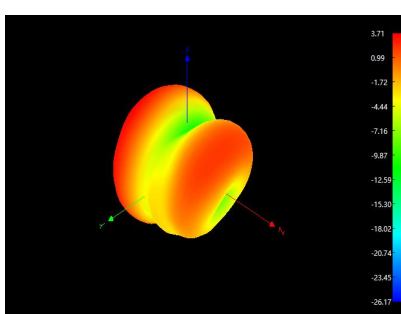
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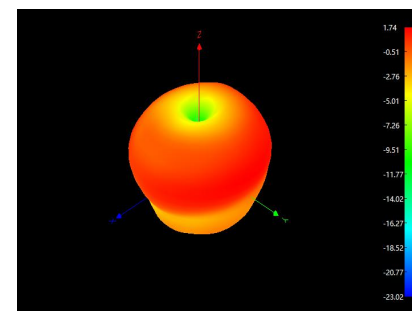
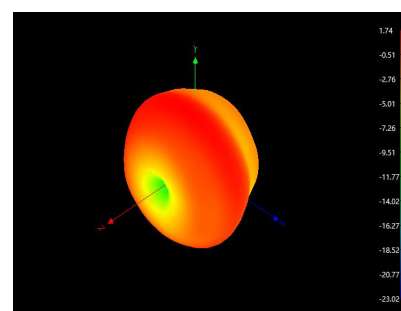
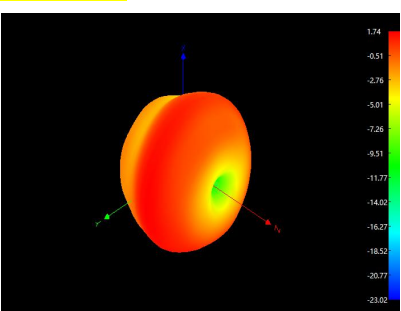
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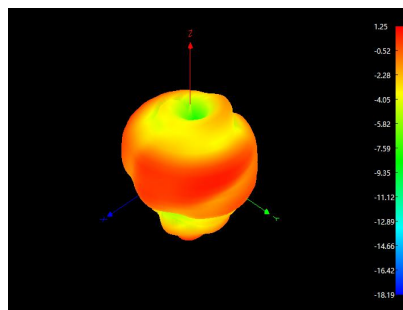
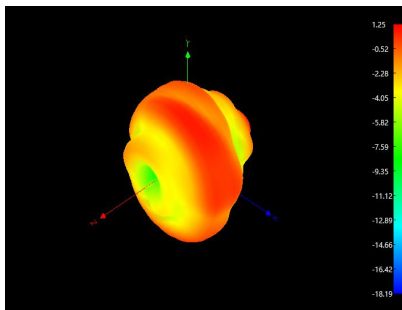
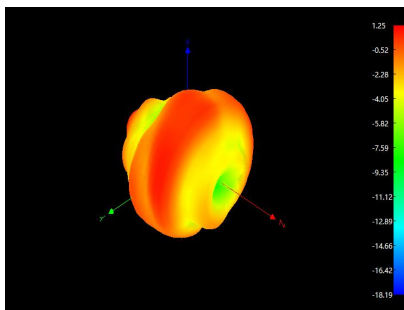
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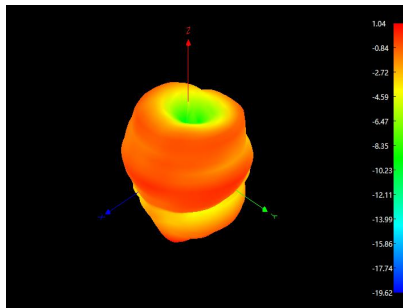
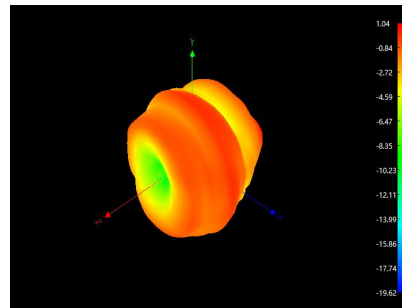
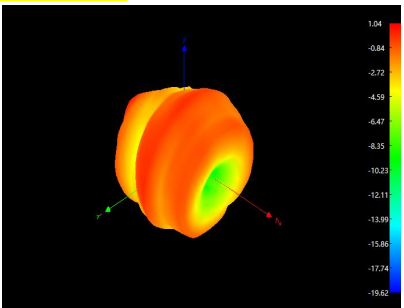
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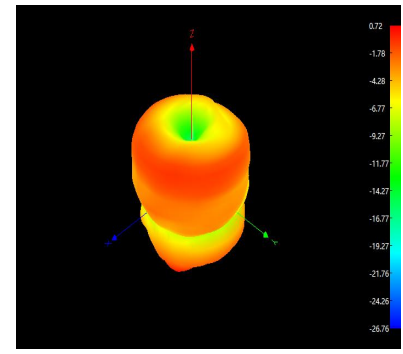
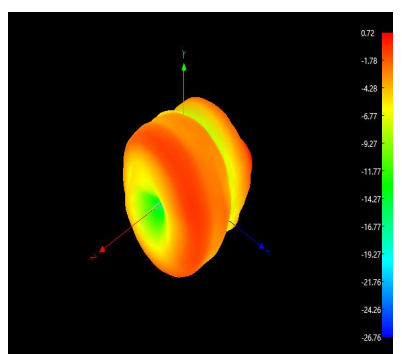
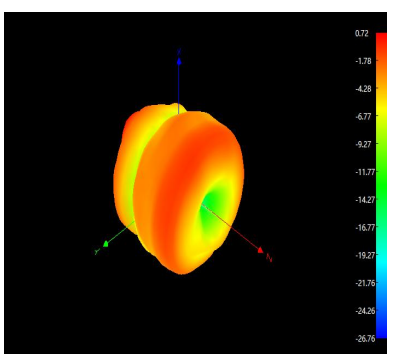
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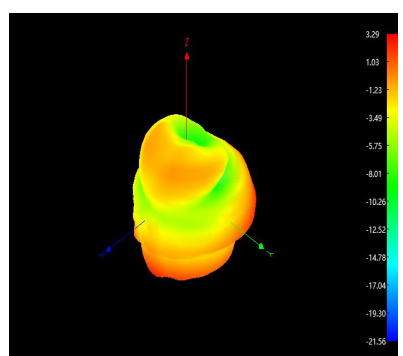
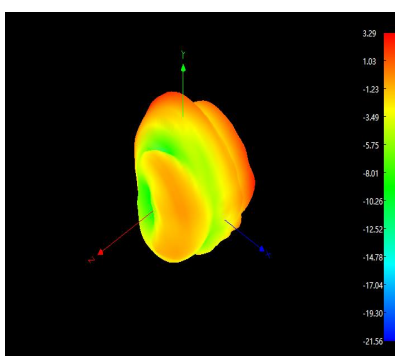
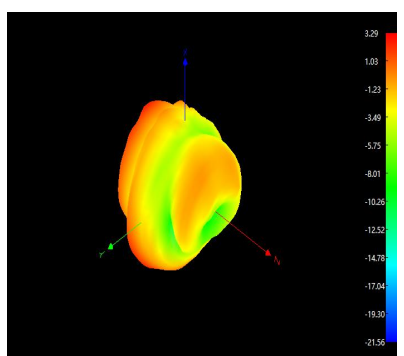
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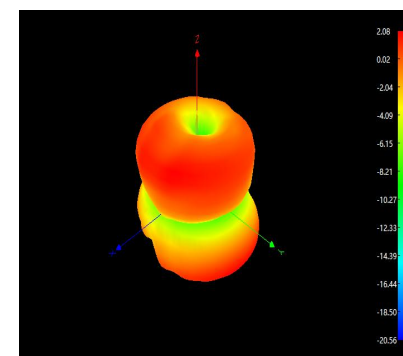
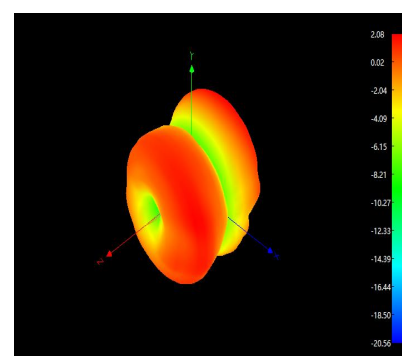
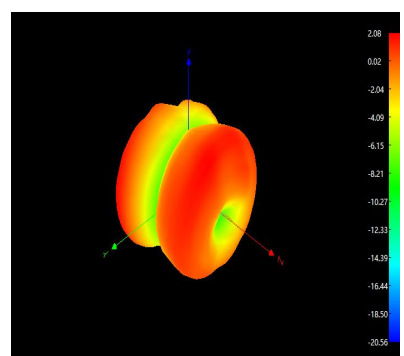
2500



3000



3500





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Sample Pictures:





Antenna packaging instructions

1. Outer packaging: carton packaging

Front view:



side view:



2. Inner packaging (1PCS/PE ziplock bag, 50PCS/bag, the size of the bag depends on the product size)

