



深圳市博格斯通信技术有限公司
shenzhen bogesi communication technology co., ltd

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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Use range:

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

Electrical Specifications:

Electrical Specifications	700-1000MHz;1400-7200MHz	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 $^{\circ}\text{C}$ ~ + 65 $^{\circ}\text{C}$	RF cable specifications	RG-178
Storage temperature	- 40 $^{\circ}\text{C}$ ~ + 80 $^{\circ}\text{C}$	Connector specifications	SMA Male J
Connector torque test	200 ~ 1000 g.cm	Joint tension test	SMA $\geq$ 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		
	5500-5890MHz: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	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



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

	Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
BGS- 036(3580- 3850)_30du	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

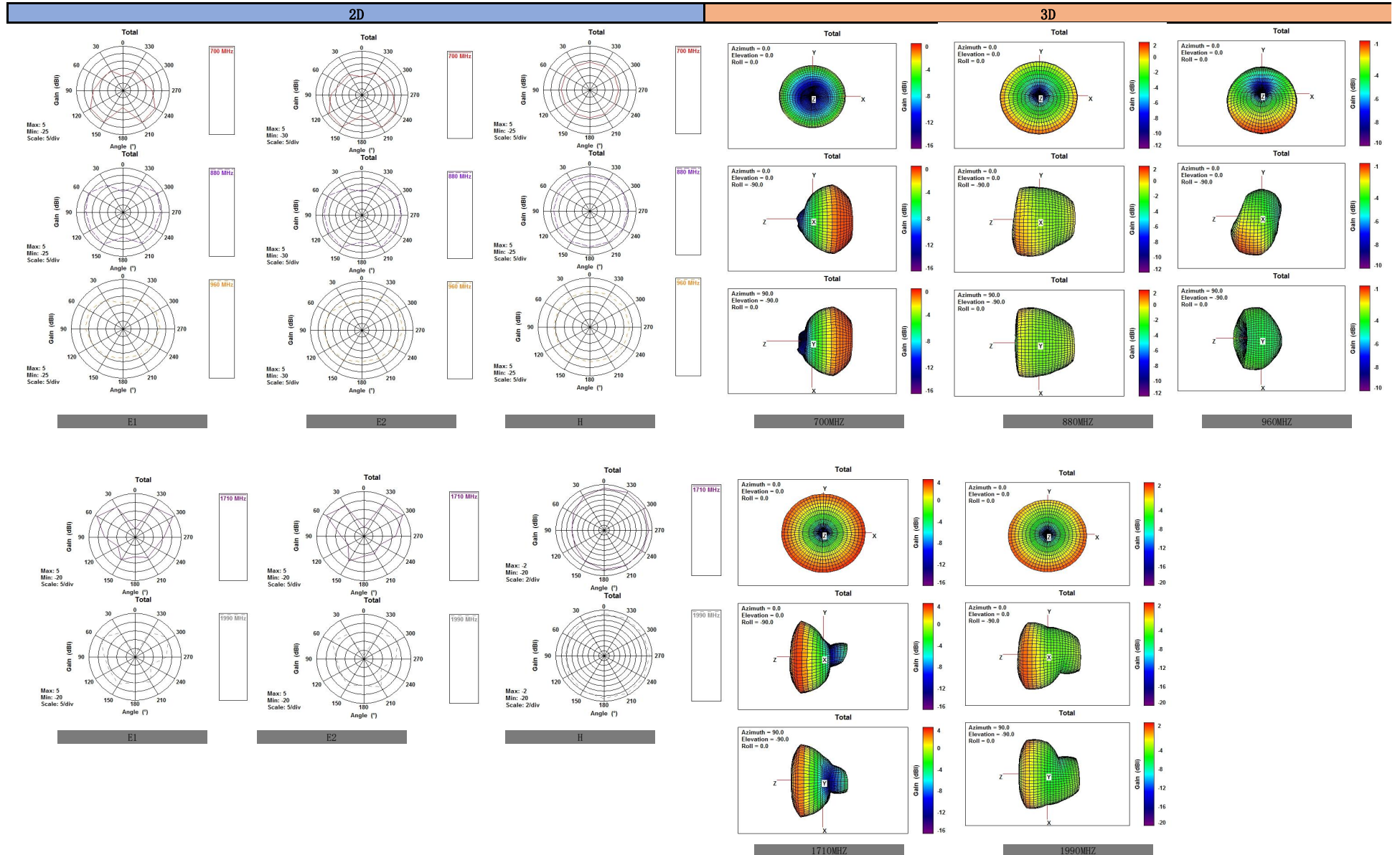
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
5900	75.36	4.23	6340	78.7	5.78	6780	74.3	4.48
5920	73.87	3.98	6360	84.53	6.03	6800	76.21	3.97
5940	74.65	4.15	6380	79.25	5.59	6820	74.3	3.82
5960	76.72	4.52	6400	83.56	5.65	6840	83.18	4.6
5980	79.58	5.08	6420	79.43	5.65	6860	74.99	4.33
6000	80.35	5.3	6440	77.27	5.61	6880	76.91	4.36
6020	79.07	4.37	6460	75.51	5.64	6900	74.82	4.03
6040	70.79	3.99	6480	85.11	5.91	6920	87.5	4.74
6060	64.12	3.55	6500	86.1	6.12	6940	78.7	4.46
6080	66.07	3.71	6520	83.75	5.79	6960	69.34	4.1
6100	66.37	3.97	6540	76.03	5.87	6980	70.15	4.13
6120	72.95	4.6	6560	83.18	6.02	7000	83.75	4.66
6140	73.96	4.73	6580	83.37	5.92	7020	76.91	4.51
6160	69.5	4.51	6600	74.64	4.85	7040	78.16	4.84
6180	65.01	4.05	6620	70.79	4.66	7060	74.64	4.68
6200	79.25	5.03	6640	79.62	5.33	7080	77.27	4.75
6220	87.3	5.78	6660	76.74	5.07	7100	75.16	4.64
6240	74.82	5.18	6680	69.34	4.34	7120	78.7	4.64
6260	70.79	4.86	6700	76.03	4.62	7140	81.1	4.66
6280	74.13	4.86	6720	80.54	4.6	7160	75.68	4.25
6300	87.1	5.73	6740	78.7	4.88	7180	74.13	4.08
6320	84.92	5.91	6760	71.45	4.18	7200	89.74	4.78

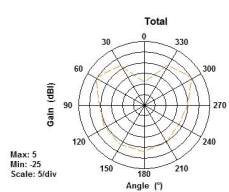


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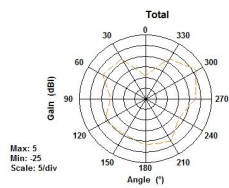
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Direction map:

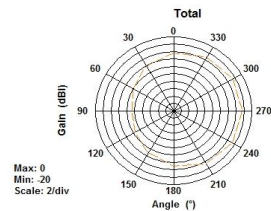




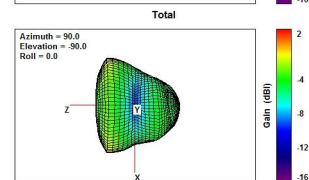
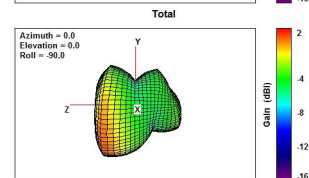
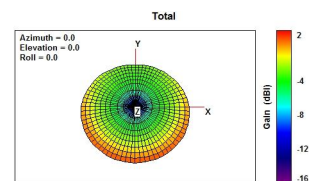
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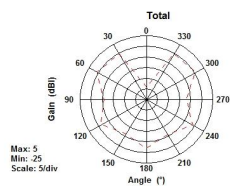
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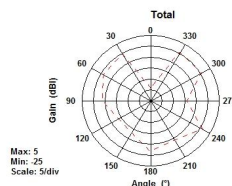
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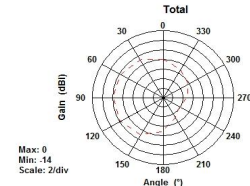
2170MHZ



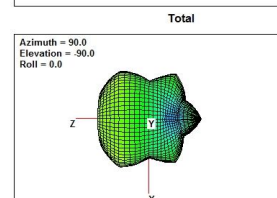
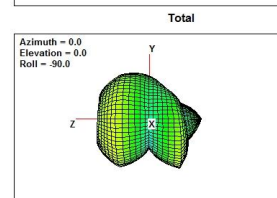
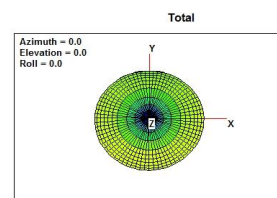
2690 MHz



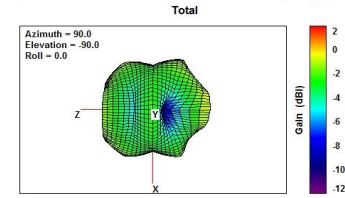
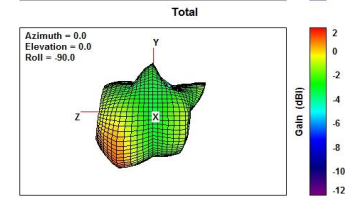
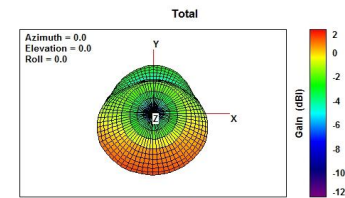
2690 MHz



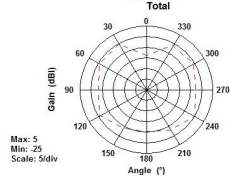
2690 MHz



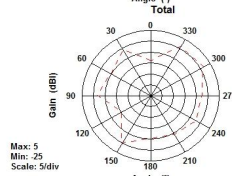
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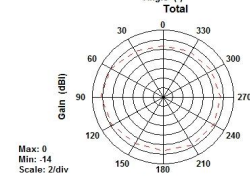
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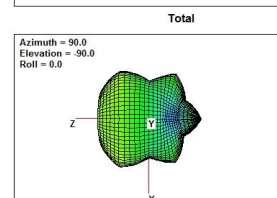
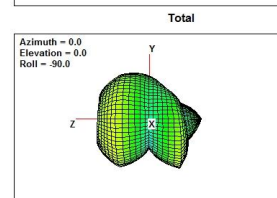
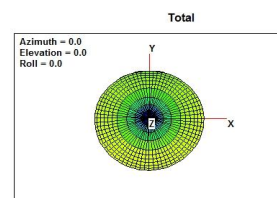
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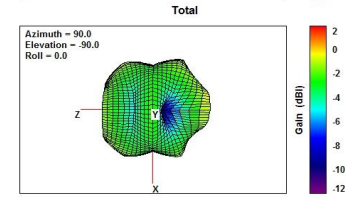
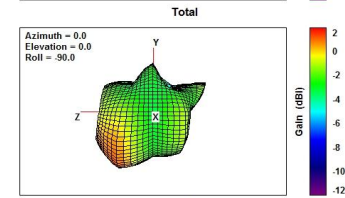
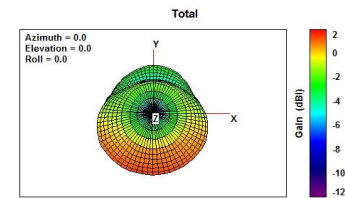
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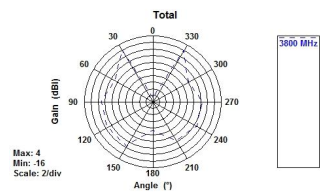
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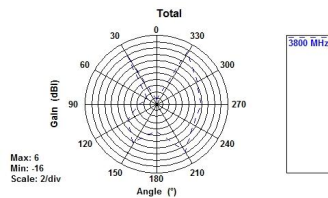
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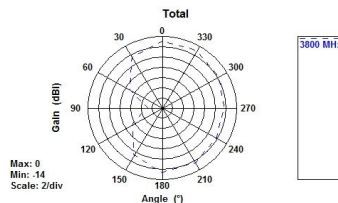
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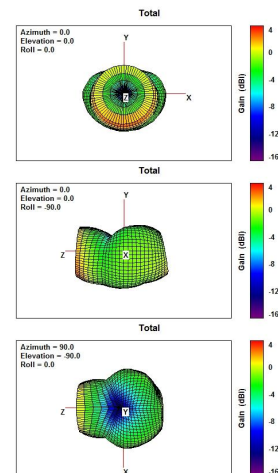
E1



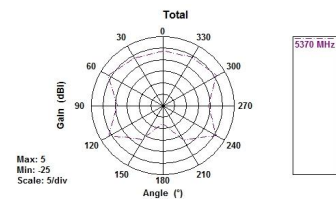
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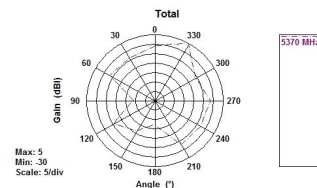
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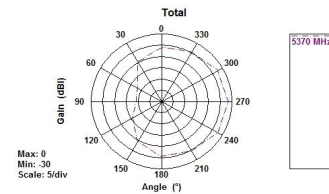
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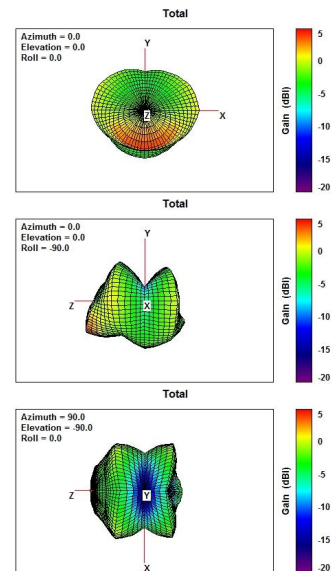
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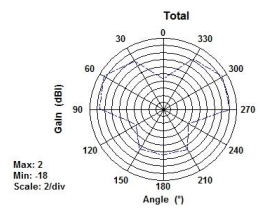
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H

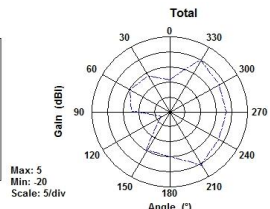


5370MHZ



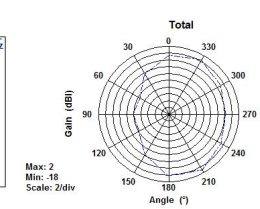
E1

6000 MHz



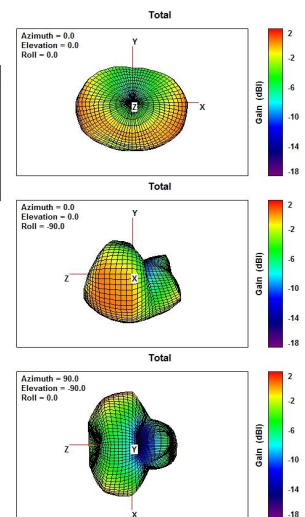
E2

6000 MHz



H

6000 MHz

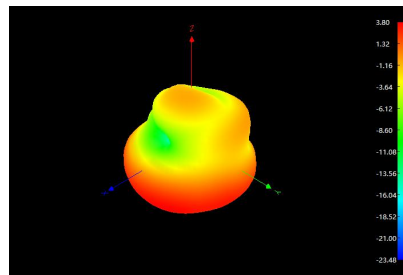
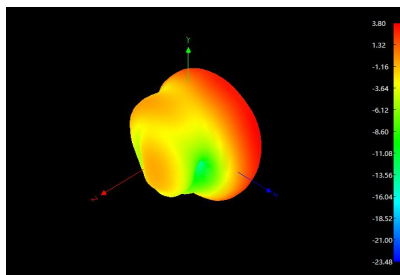
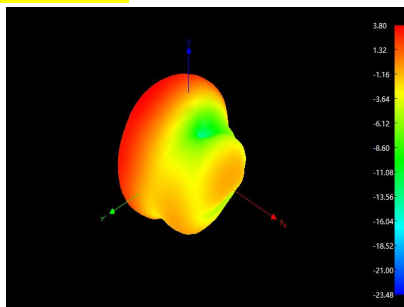


6000MHZ

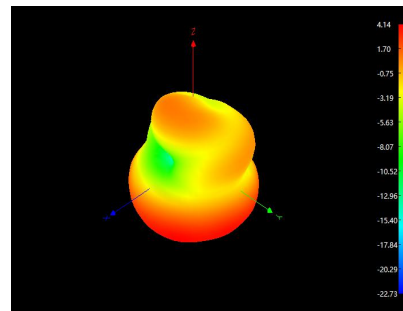
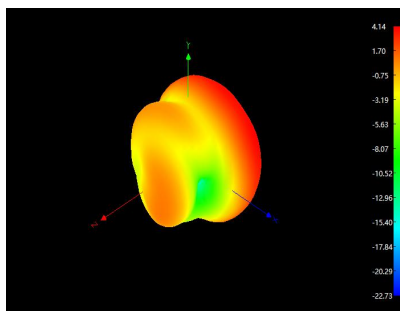
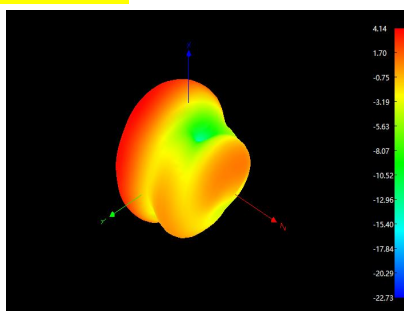


Direction map:

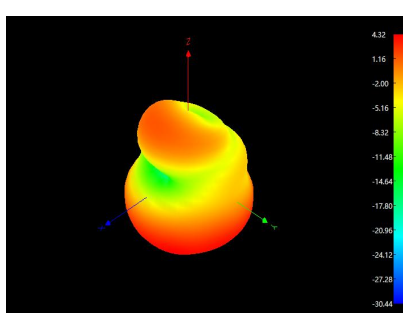
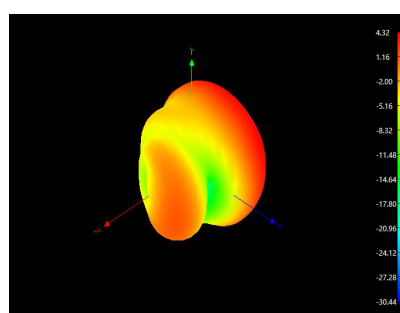
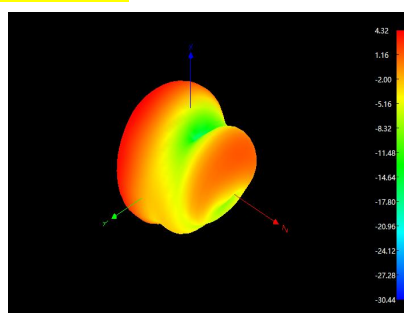
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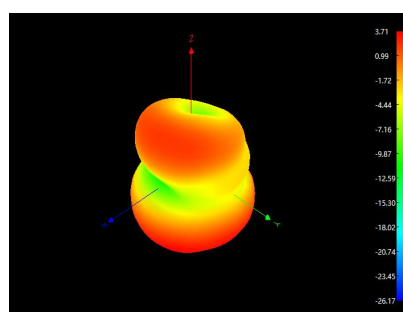
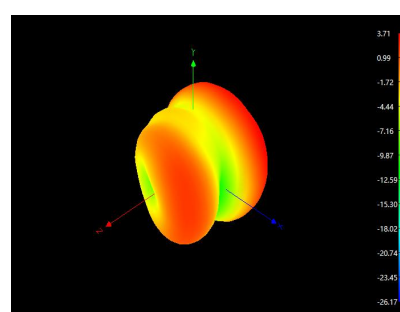
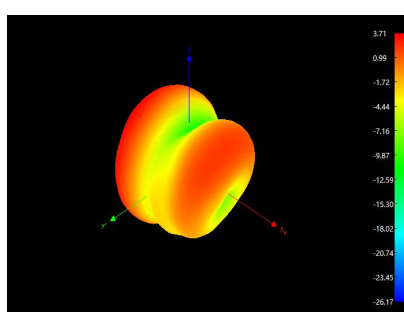
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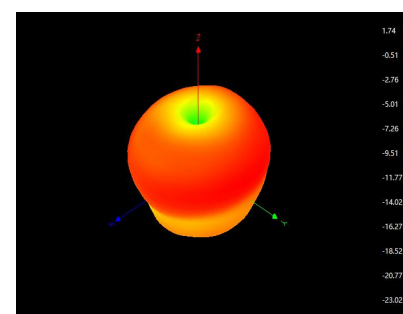
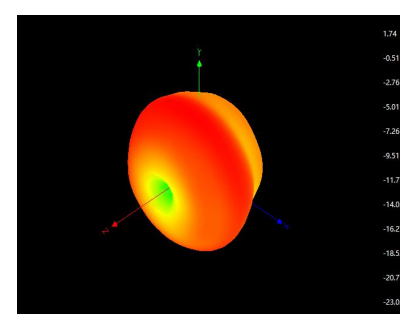
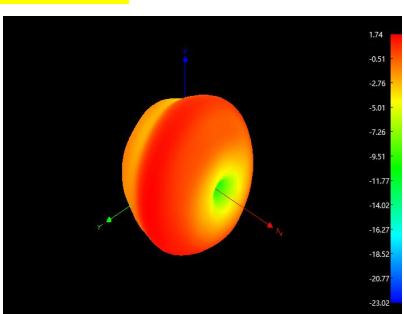
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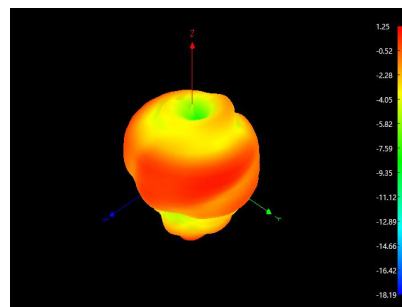
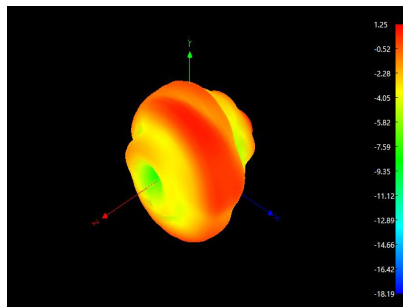
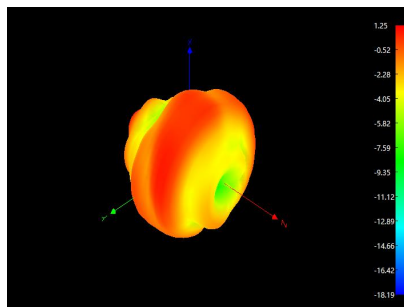
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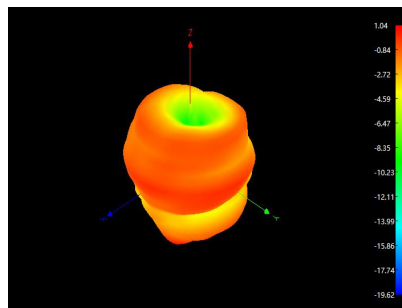
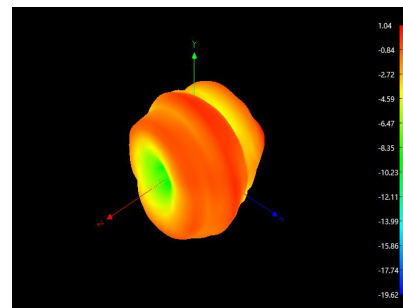
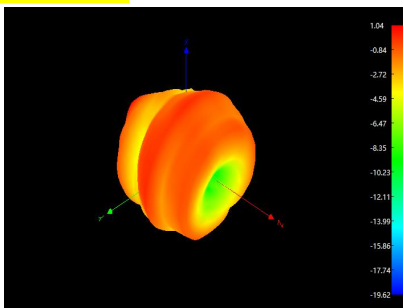
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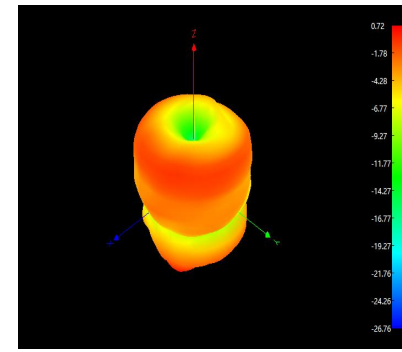
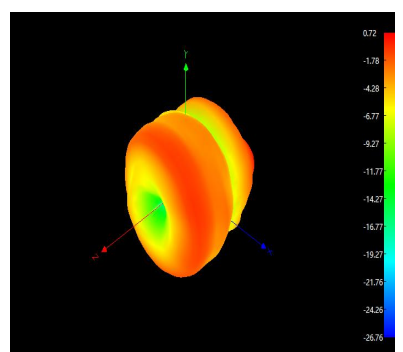
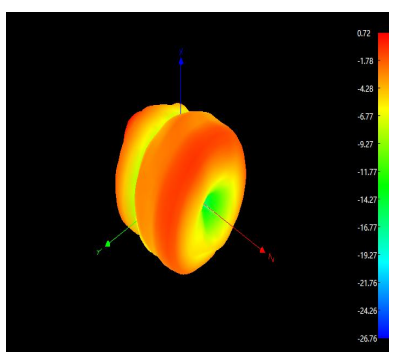
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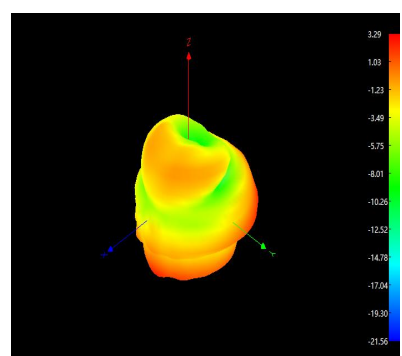
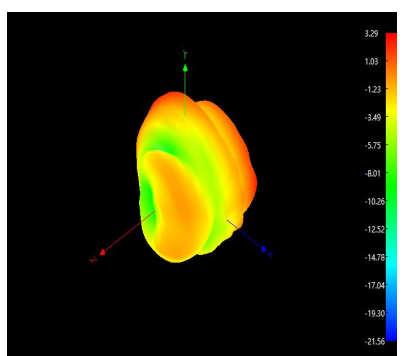
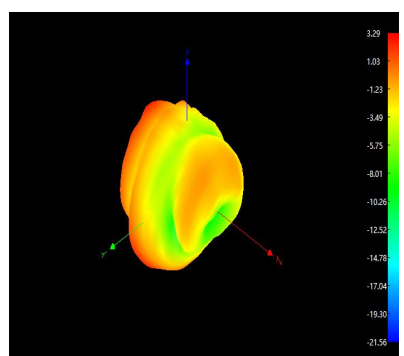
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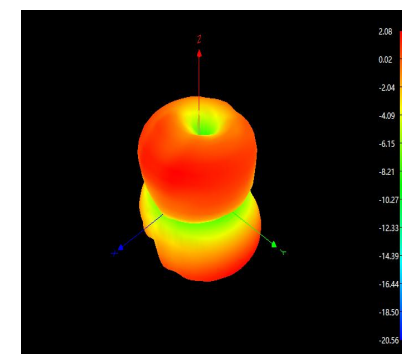
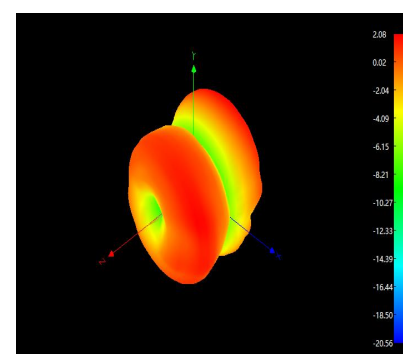
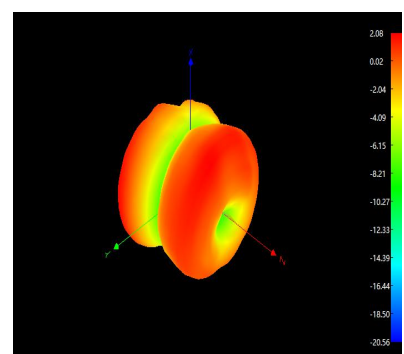
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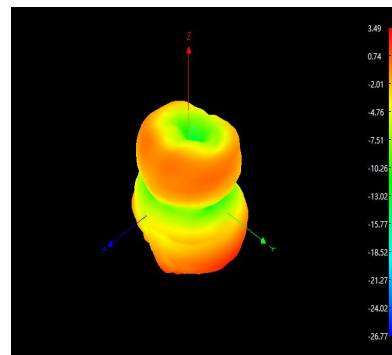
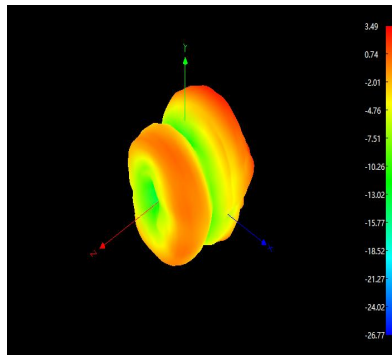
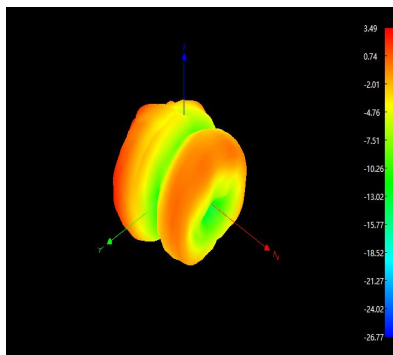
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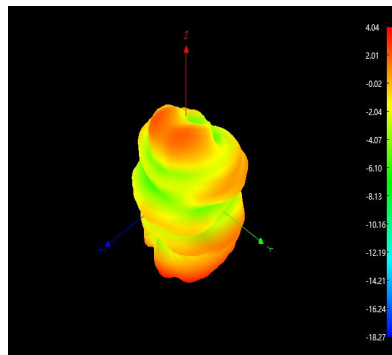
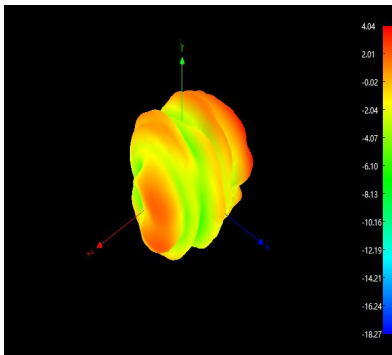
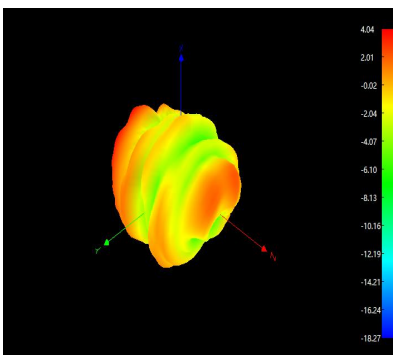
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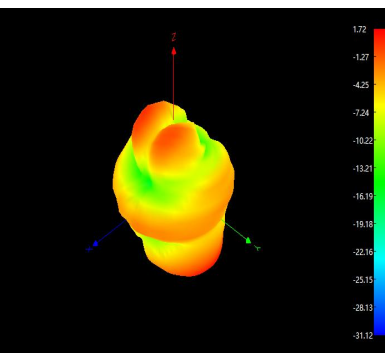
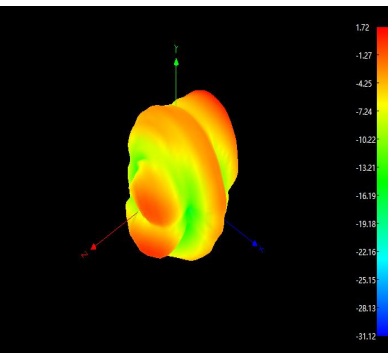
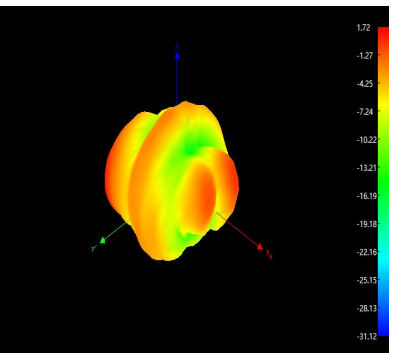
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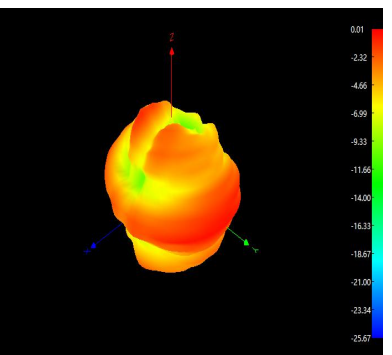
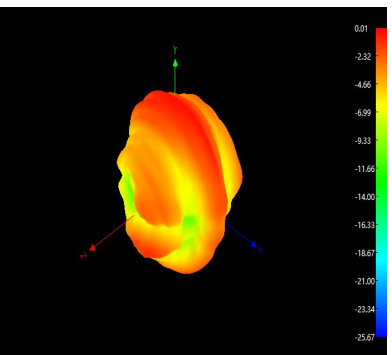
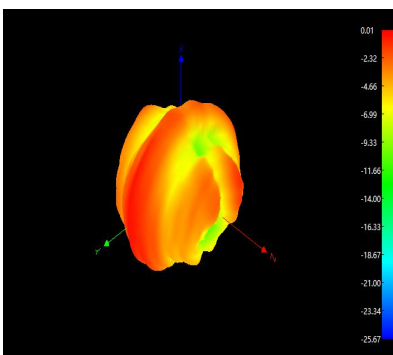
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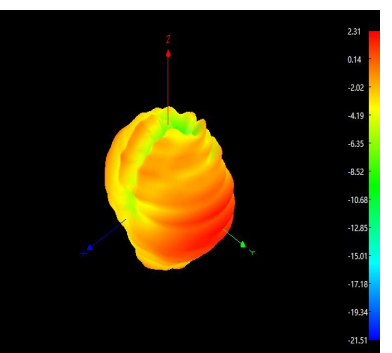
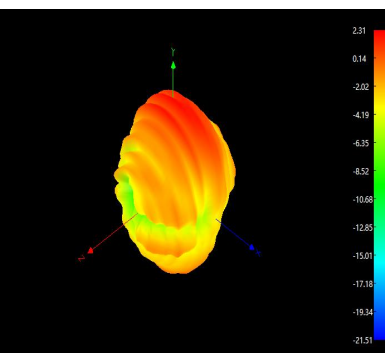
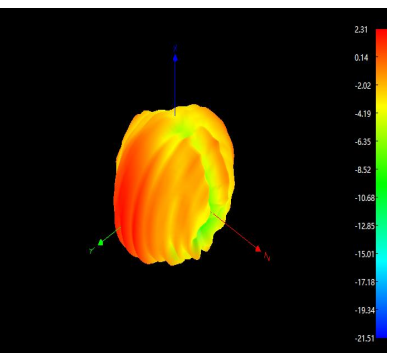
5000



5500



6000





深圳市博格斯通信技术有限公司
shenzhen bogesi communication technology co.,ltd

Sample Pictures:





深圳市博格斯通信技术有限公司
shenzhen bogesi communication technology co.,ltd

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)

