



深圳市博格斯通信技术有限公司

shenzhen bogesi communication technology co., ltd

Applicable to **RBG-014** project **WIFI** antenna solution

Electrical Specifications:

Frequency Band	2.4/5G	The Antenna Material	FPC
Nominal Impedance	50 Ω	Antenna Connection Mode	IPEX I
VSWR	≤ 3.0	Working Temperature	-40°C ~ +85°C
Peak Gain	2400-2500MHz: 2.28dBi	Keep The Temperature	+19°C ~ +23°C
	5200-5800MHz: 3.7dBi	Polarization	Linear Polarization

Test Conditions And Methods:

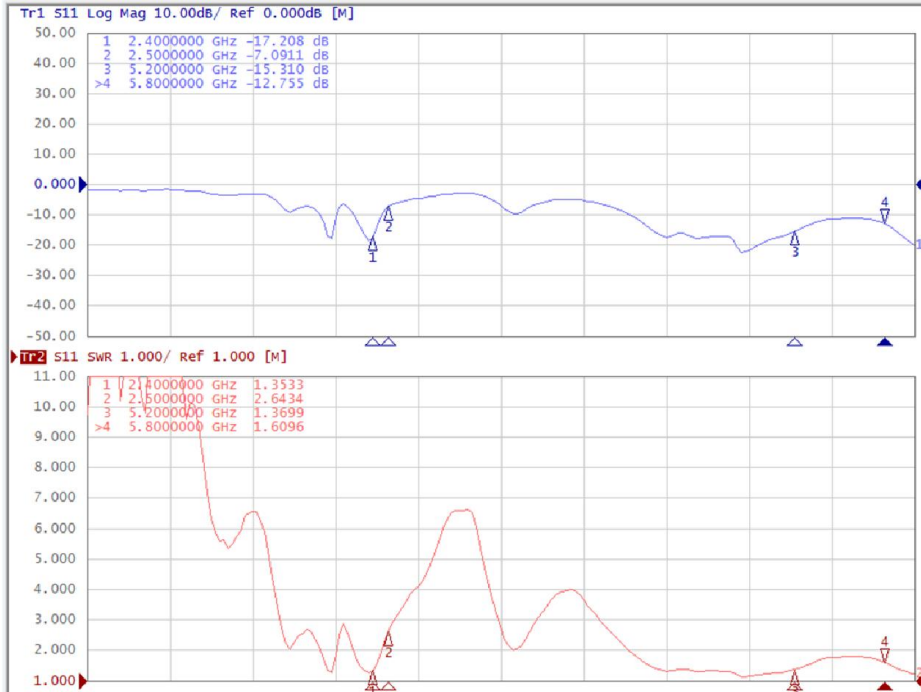
Test Instruments	Test Method	Test Result
<p>7*4*3微波暗室 7*4*3 microwave darkroom E5071B网络分析仪 E5071B network analyzer 48探头测试系统 48 probe test system MT8862综合测试仪 MT8862 comprehensive tester</p>	<p>1. 将待测天线装配在样机上 Assemble the antenna to be tested on the prototype. 2. 把样机开机放在暗室内的测试夹具上，并与综测仪/分析仪建立连接 Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it. Instrument/analyzer connection is established. 3. 用测试软件测试天线无源数据 Test antenna passive data with test software.</p>	<p>Refer to the Test Report</p>

Passive performance test parameters

Frequency (GHz)	2.4	2.5	5.2	5.8
VSWR	1.3	2.6	1.3	1.6

ES071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr/State



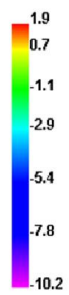
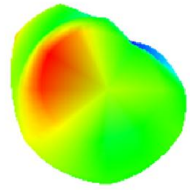
antenna passive data:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	57.58	1.91
2410	60.15	1.99
2420	58.76	1.67
2430	62.27	2.28
2440	59.76	1.56
2450	61.97	1.58
2460	56.42	0.11
2470	56.44	0.34
2480	49.9	-0.56
2490	53.27	0.1
2500	43.2	-1.29
5100	63.72	3.39
5120	66.03	3.54
5140	66.65	3.42
5160	60.93	3.21
5180	54.68	3.1

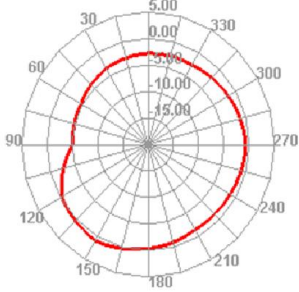
5200	50.01	3.02
5220	50.38	2.82
5240	49.11	2.84
5260	51.72	2.63
5280	52.79	2.64
5300	55.41	2.52
5320	67.3	3.33
5340	73.59	3.35
5360	74.78	3.7
5380	73.62	3.09
5400	64.23	2.3
5420	63.16	2.35
5440	58.02	2.28
5460	55.41	1.7
5480	56.89	2.42
5500	58.28	2.84
5520	56.73	2.52
5540	57.75	2.54
5560	55.12	2.48
5580	52.92	2.42
5600	50	1.72
5620	47.21	1.2
5640	48.65	0.76
5660	49.13	0.25
5680	52.61	0.73
5700	52.06	1.17
5720	46.92	1.66
5740	51.09	1.82
5760	54.17	1.81
5780	57.71	2.21
5800	63.11	2.78

Directional diagram

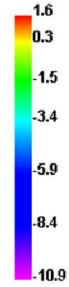
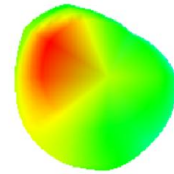
2400.000MHz



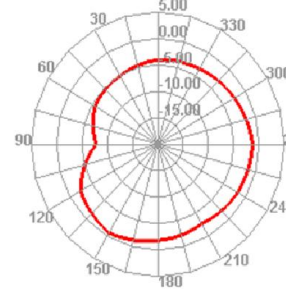
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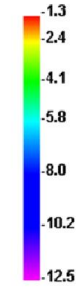
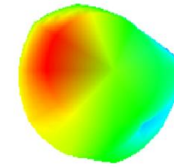
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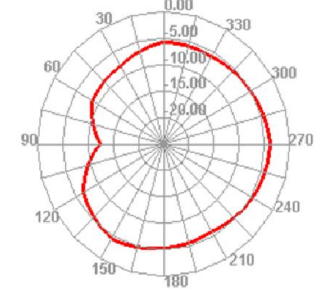
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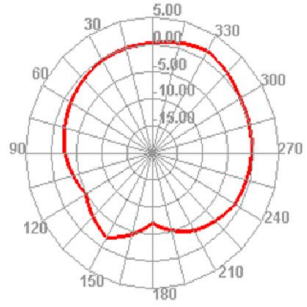
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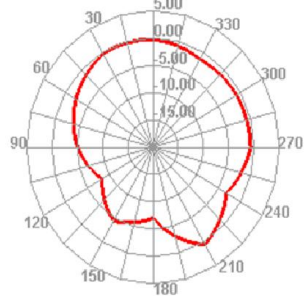
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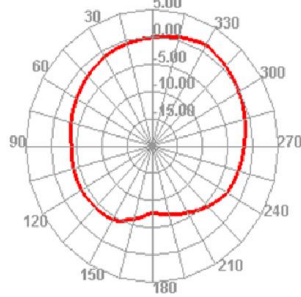
2400.000MHz E1



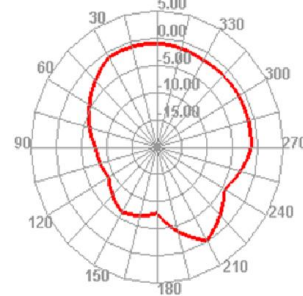
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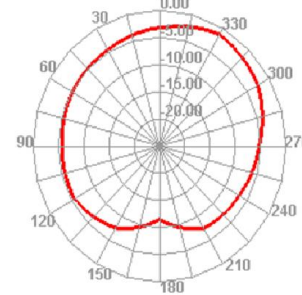
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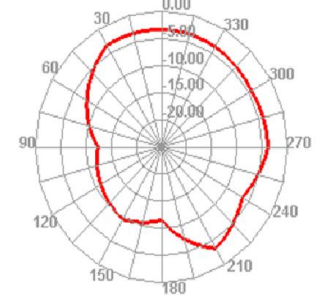
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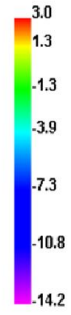
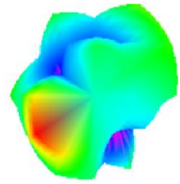
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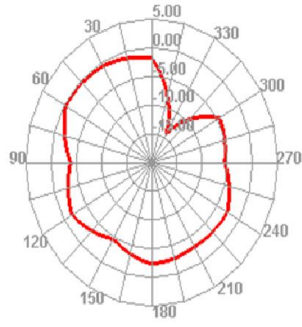
2500.000MHz E2



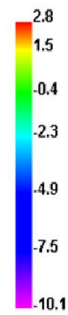
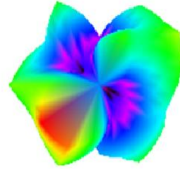
5200.000MHz



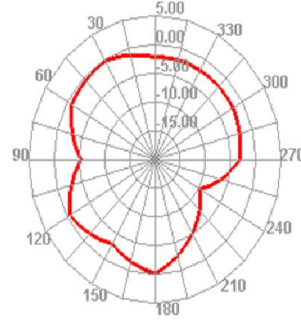
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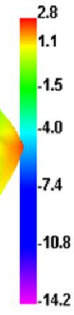
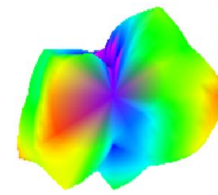
5500.000MHz



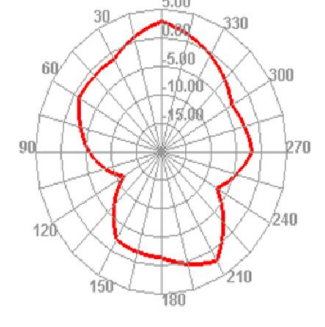
5500.000MHz H



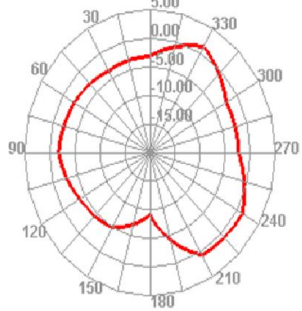
5800.000MHz



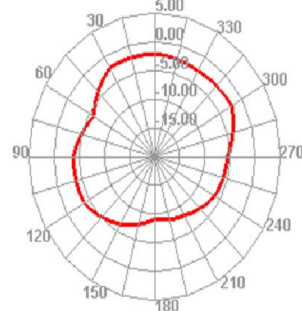
5800.000MHz H



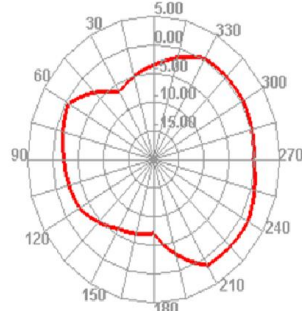
5200.000MHz E1



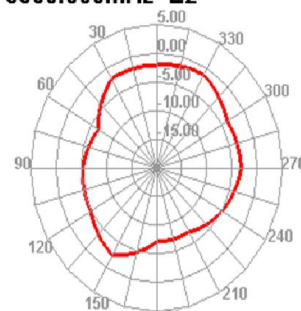
5200.000MHz E2



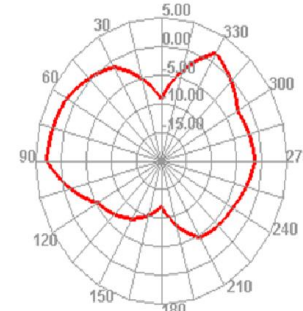
5500.000MHz E1



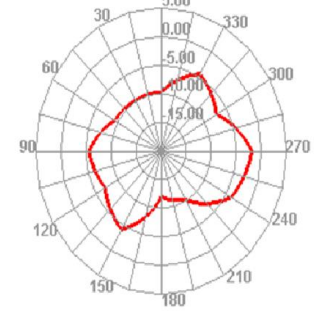
5500.000MHz E2



5800.000MHz E1

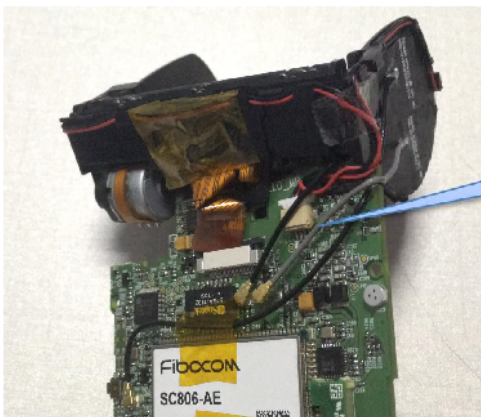


5800.000MHz E2

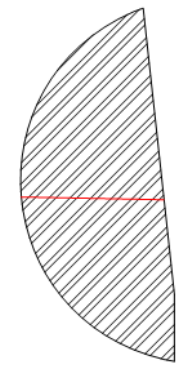
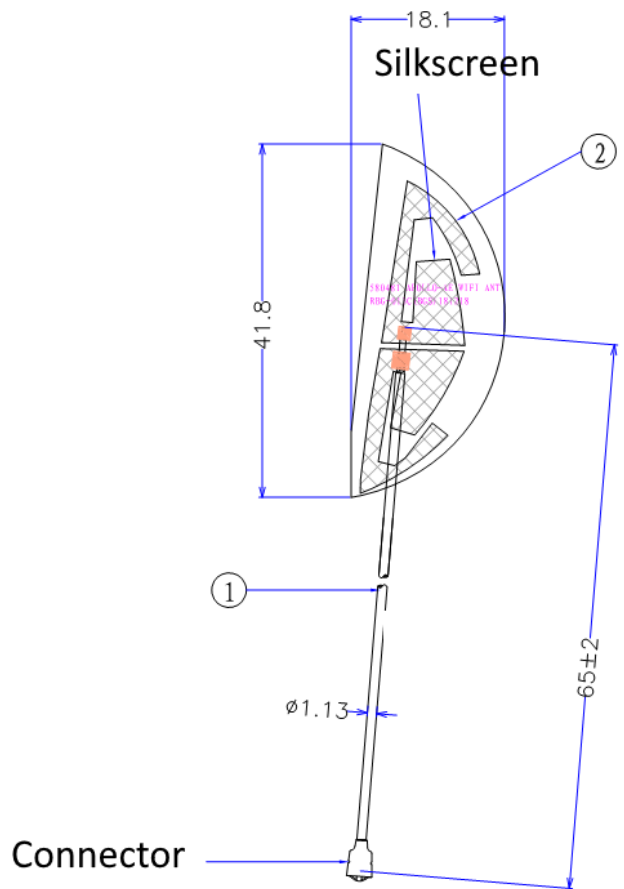




Location



Connector



		 博格斯通信技术有限公司 Bogesi Organism Magnet Industry Co.,Ltd	
		RBG-013C	FPC/CABLE
		APOLLO-AE	RA
		2018-12-18	 