



苏州赛讯通讯科技有限公司

产品承认书

SPECIFICATION FOR APPROVAL

客户：保德国际贸易有限公司

CUSTOMER: Baode International Limited Company

品名：出线式外置天线

PART NAME: Outgoing external antenna

料号：SX-005-1318

PART NO: SX-005-1318

本公司签核 (SIGNATURE)	工 程 (CHECKED BY)	品 保 (TESTED)	签核日期 (DATE)
	彭宇 Pengyu	程带娣 Cheng Daidi	2024/01/19
客户签核 (CUSTOMER APPROVAL)	工 程 (CHECKED BY)	品 保 (TESTED)	签核日期 (DATE)

*SuZhou Saixun Communication Technology Co.,Ltd.

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*TEL: 0512-63636028

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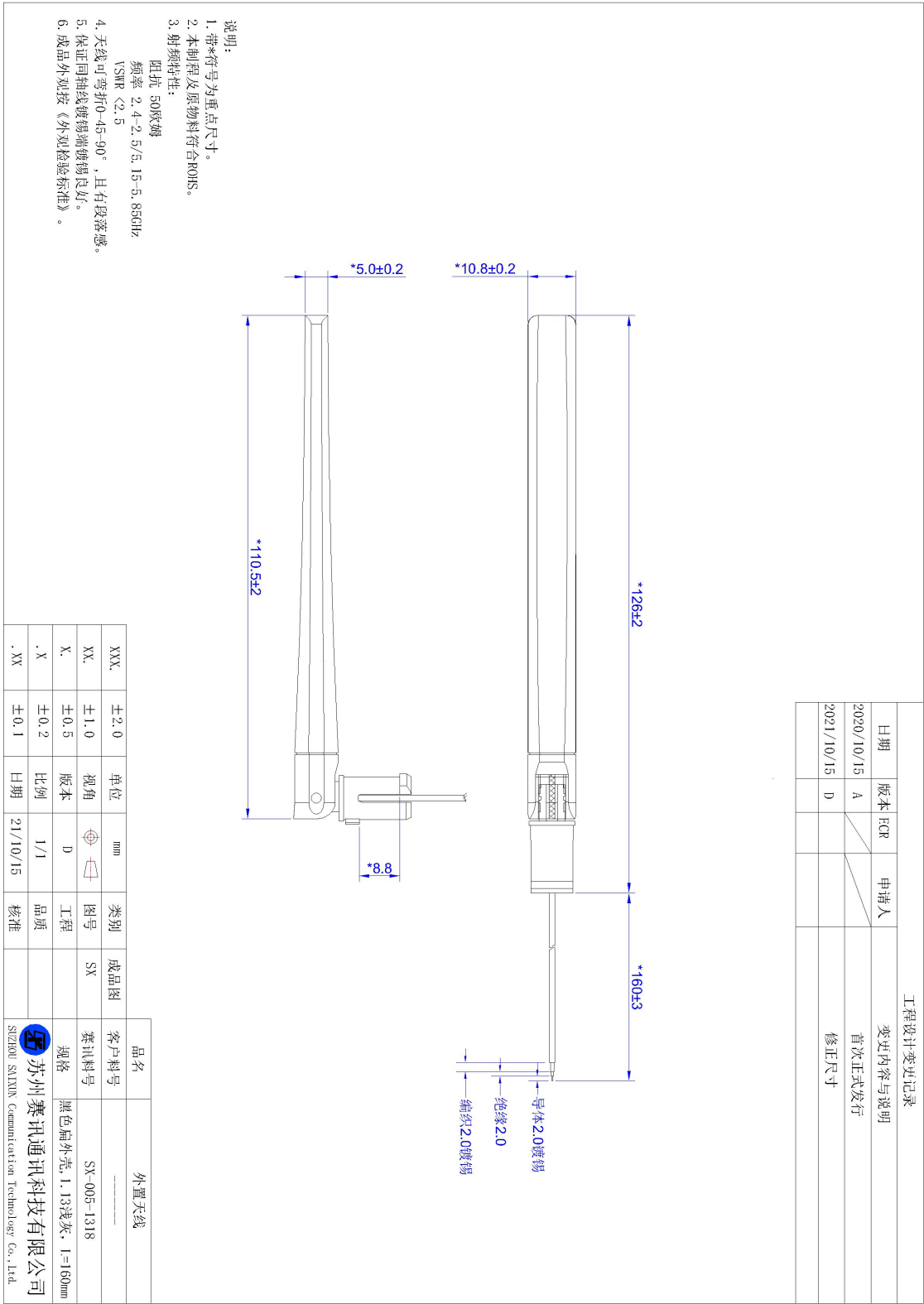


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3. 产品图纸 (Product drawing)



4.性能参数 (Performance parameters)

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电气参数 (Electrical parameters)	
工作频率 (Working frequency)	2.4+5GHz
输入阻抗 (Input resistance)	50 ohm
驻波比 (Standing wave ratio)	≤ 2.5
最大增益 (Maximum gain)	≤ 5 dBi
辐射方向 (Radiation direction)	全向 (Omnidirectional)
极化方向 (Polarization direction)	垂直极化 (Vertical polarization)
结构形式 (Structure type)	偶极子 (Dipole)
机械参数 (Mechanical parameters)	
产品长度 (Product length)	125 mm
连接器 (Connector)	无 (None)
插拔力 (Insertion and extraction force)	无 (None)
连接器拉力 (Connector pull force)	无 (None)
馈线 (Feeder)	1.13灰色同轴线 (Gray coaxial cable)
馈线长度 (Feeder length)	160mm
环境参数 (Environmental parameters)	
工作温度 (Operating temperature)	-30℃ ~ 65℃
储存温度 (Storage temperature)	-30℃ ~ 75℃

5.测试报告 (Test report)

5.1 VSWR:

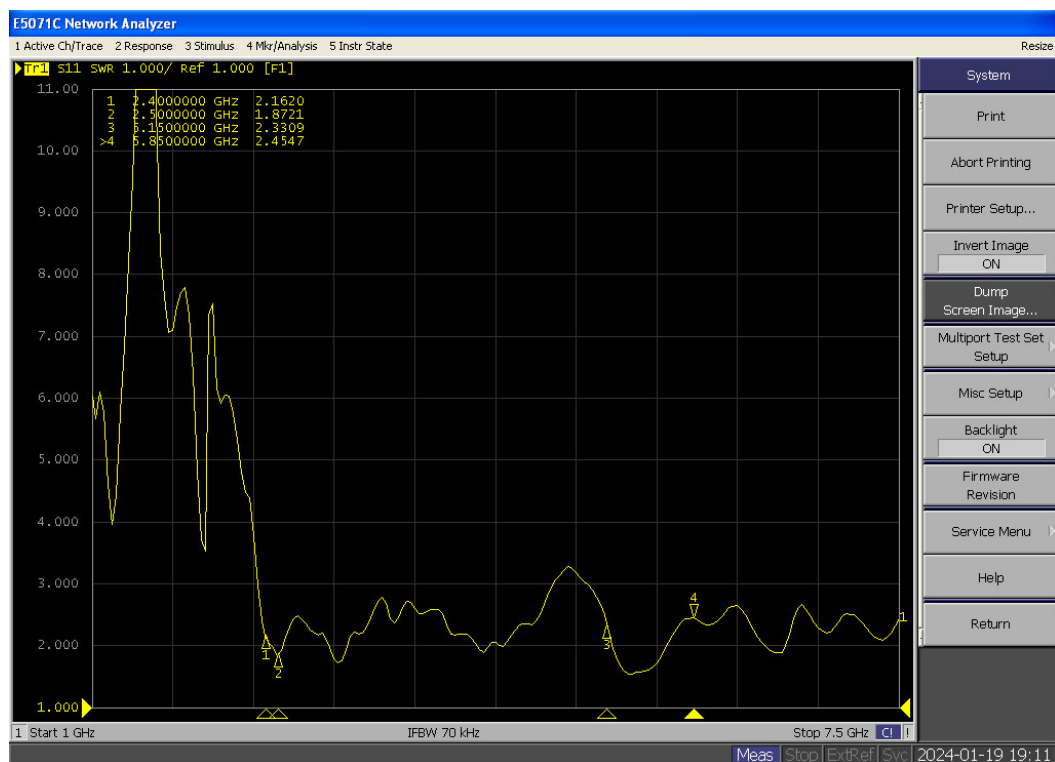
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5.2 增益与效率 (Gain and efficiency):

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-2.05	-2.07	-1.97	-1.97	-2.07	-2.51	-2.73	-2.63	-2.16	-2.06	-2.09
Gain (dBi)	3.40	3.63	3.88	4.01	4.09	3.75	3.61	3.28	3.32	3.11	2.63
Efficiency (%)	62.32	62.04	63.48	63.47	62.06	56.15	53.28	54.60	60.82	62.20	61.83

Frequency ID	12	13	14	15	16	17	18	19
Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Efficiency (dBi)	-2.95	-2.35	-2.26	-1.63	-1.70	-1.90	-1.37	-2.18
Gain (dBi)	1.61	2.60	3.36	4.80	5.10	4.61	4.10	1.39
Efficiency (%)	50.69	58.16	59.38	68.65	67.56	64.51	72.99	60.57

5.3 方向图 (Directional diagram):

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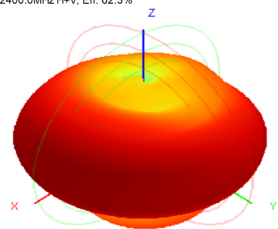
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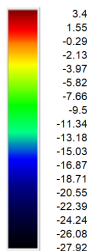
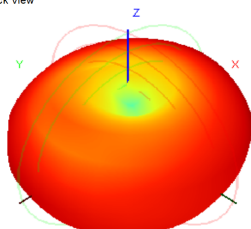
*Web: www.szsaixun.com



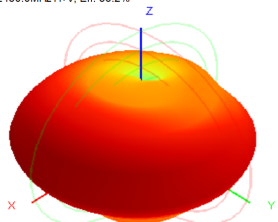
2400.0MHz H+V, Eff: 62.3%



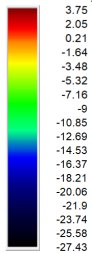
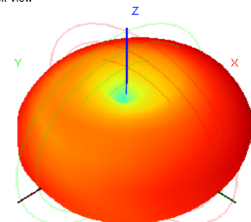
Back View



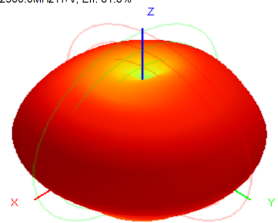
2450.0MHz H+V, Eff: 56.2%



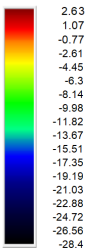
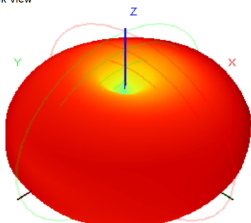
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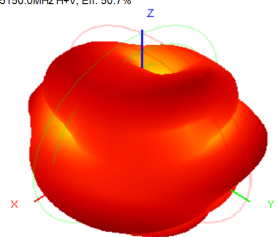
2500.0MHz H+V, Eff: 61.8%



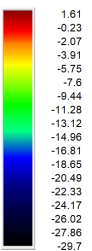
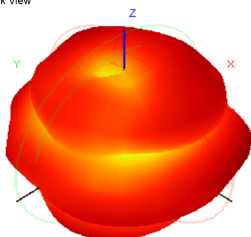
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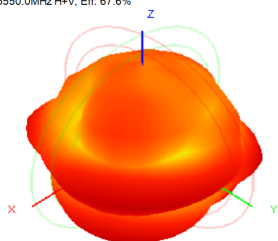
5150.0MHz H+V, Eff: 50.7%



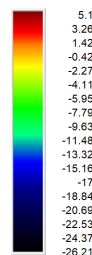
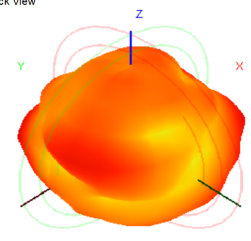
Back View



5550.0MHz H+V, Eff: 67.6%



Back View



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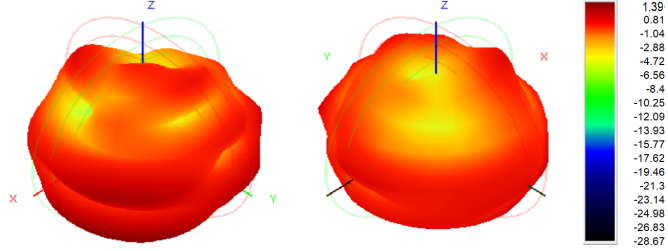
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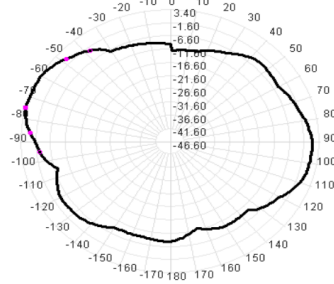


5850.0MHz H+V, Eff: 60.6%

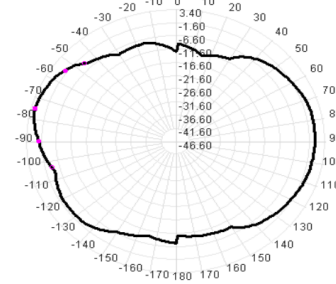
Back View



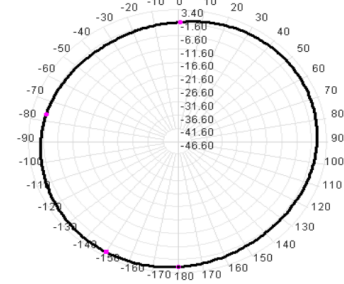
2400.0MHz Total(E1-XZ), Max= 3.40dBi



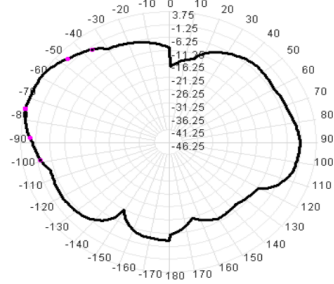
2400.0MHz Total(E2-YZ), Max= 2.21dBi



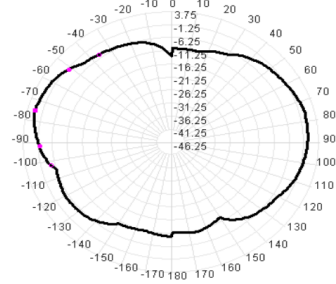
Total(H+XY), Max= 1.56dBi, CirD=4.51



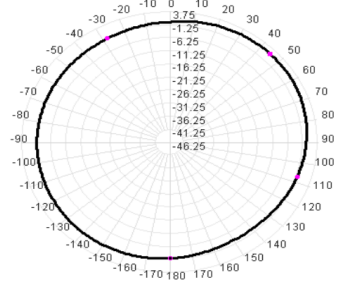
2450.0MHz Total(E1-XZ), Max= 3.75dBi



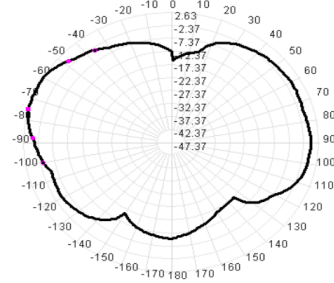
2450.0MHz Total(E2-YZ), Max= 1.30dBi



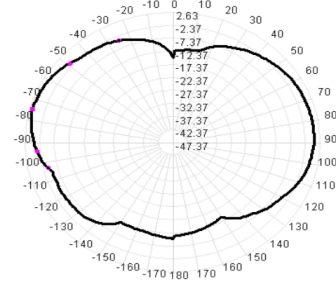
Total(H+XY), Max= 1.66dBi, CirD=4.82



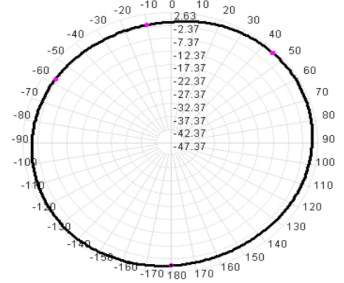
2500.0MHz Total(E1-XZ), Max= 2.63dBi



2500.0MHz Total(E2-YZ), Max= 1.82dBi



Total(H+XY), Max= 1.47dBi, CirD=3.53



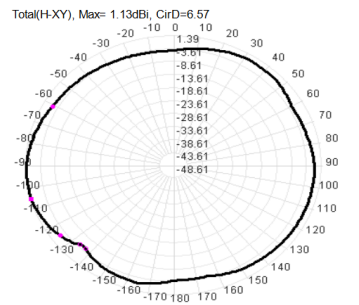
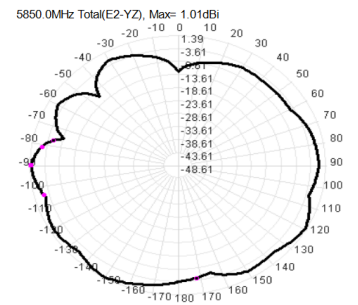
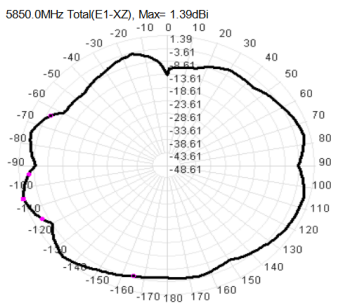
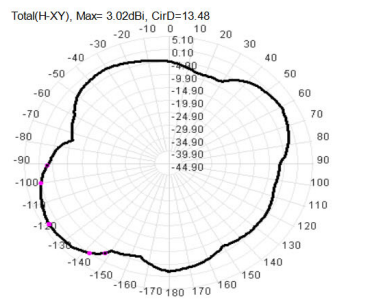
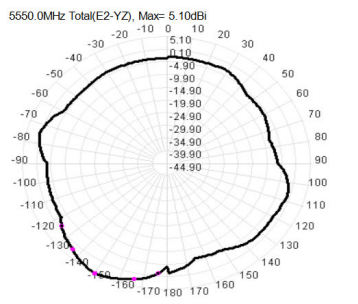
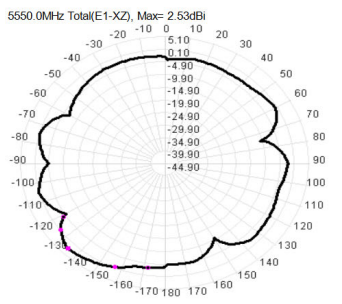
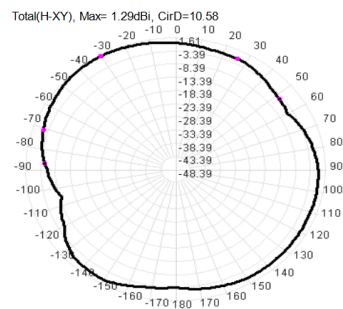
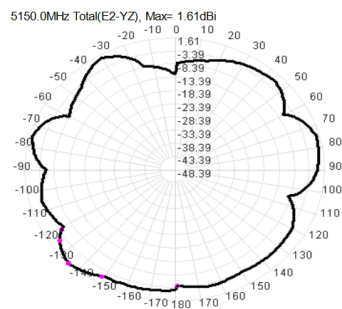
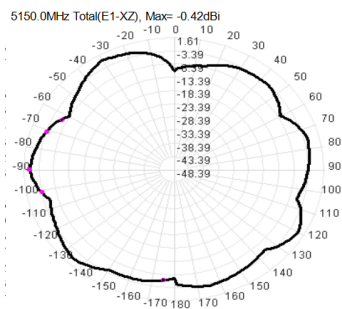
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