

承 认 书

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

客 户 料 号 :

CUS PART NO

版次:

REV X1

品 名 / 规格 :

SPECIFICATION

RF ANTENNA (BLACK)

2.4-2.5/5.15-5.85GHz 2dBi(SMA)

单重:

weight

供 方 料 号 :

SUP PART NO

SLEingA100150050-F05

日 期 :

DATE

2022.04.28



厂 商 核 准 :

SUP APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED
C X S	HZM	王 Q	w xy

客 户 核 准 :

CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

东莞市森岭智能科技有限公司

DONGGUAN CITY SLEing INTEL-TECH CO., LTD

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正本由承办单位保存



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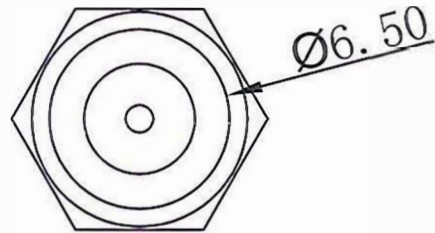
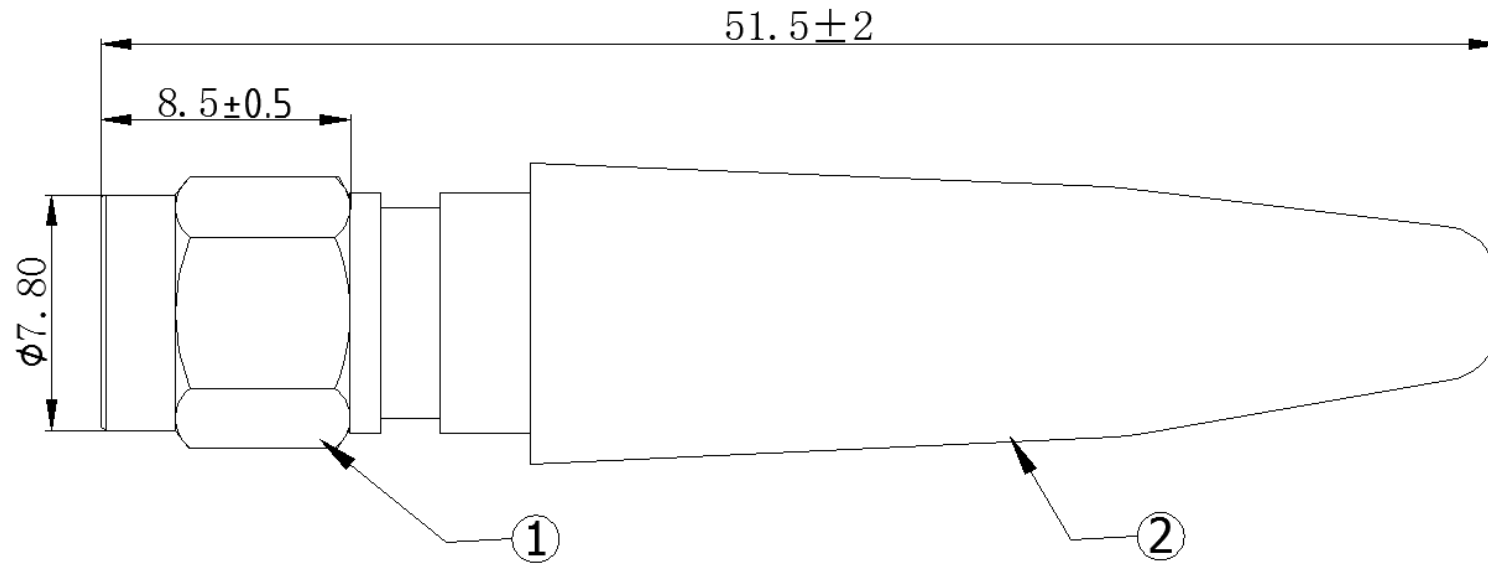
承认书项目表

序号	项目	附件资料		备注
		有	无	
1	承认书封面 (Spec Cover)	☐	☐	1. 封面需注明产品料号、品名规格 2. 经主管核准后加盖公司印章
	客户满意度 (Customer satisfaction)	☐	☐	请客户对我司给予真诚的评价
2	承认书项目表 (Spec Item)	☐	☐	
3	工程成品图 (Drawing)	☐	☐	
4	电性测试报告 (Test Reports)	☐	☐	
5	S参数测试 (S Parameter)	☐	☐	与产品一致
6	方向图(Patten)/测试效率 (Test Efficiency)	☐	☐	与产品一致
7	SGS报告 (SGS Report)	☐	☐	1. 需依产品材质类别及颜色分别提供 2. 报告有效期为一年
			☐	
9		☐	☐	
10		☐	☐	
11		☐	☐	

illustrate:

1. The contents of the Approval Letter must be arranged in the order of the checklist items.
2. Print the Approval Letter according to the number of copies requested by the customer. The SGS report must be stamped with the project manager's seal.
3. All materials must be confirmed by the customer. Any changes to materials/processes/that may affect product quality and environmental quality must be resubmitted to the customer for confirmation before implementation.
4. The SGS report is valid for one year.
5. Based on the contents of the Approval Letter attachments, check the checklist: "Yes" indicates provided, "No" indicates provided as requested by the customer.

REV.	CONTENT	DATE
X1	First Issue	2022.04.28



8. 0HEX

Specification:

Frequency Rang:2.4~2.5/5.15~5.85GHz(带机测试)

Return Loss:-10dB or less

VSWR:1.92 Max



SLEing®森岭 东莞市森岭智能科技有限公司 DONGGUAN SLEing INTEL-TECH CO.,LTD			CUSTOMER		工程部		
			PART NO				
			TITLE		RF Antenna		
			S. L P/N		SLEingA100150050-F05		
		TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWN	CHECKED	APPROVED
UNIT:mm		ANGLES ±0.5°	X. ±0.3	A4	w xy	HZH	CXS
SHEET: 1/1		. XX ±0.05	XX. ±0.5				
SCALE: 1/1			XXX. ±2.0				

2	Antenna Cap	TPEE, Color:Black		1
1	Connector	SMA R/A Plug 公针, Gold-Plated		1
NO	PART NAME	DESCRIPTION	REMARK	Q' TY



电性测试报告 Test Reports

Electrical Properties	
Frequency	2.4-2.5/5.15-5.85GHz
Bandwidth	100MHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2dBi $\pm$ 1
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	SMA
Physical Properties	
Antenna Material	TPEE
Antenna Color .	Black
Operating Temp	-40 ~ +85 °C
Storage Temp	-40 ~ +85 °C

天线组装图**Antenna Profile**

<i>Device</i>	
<i>Antenna</i>	

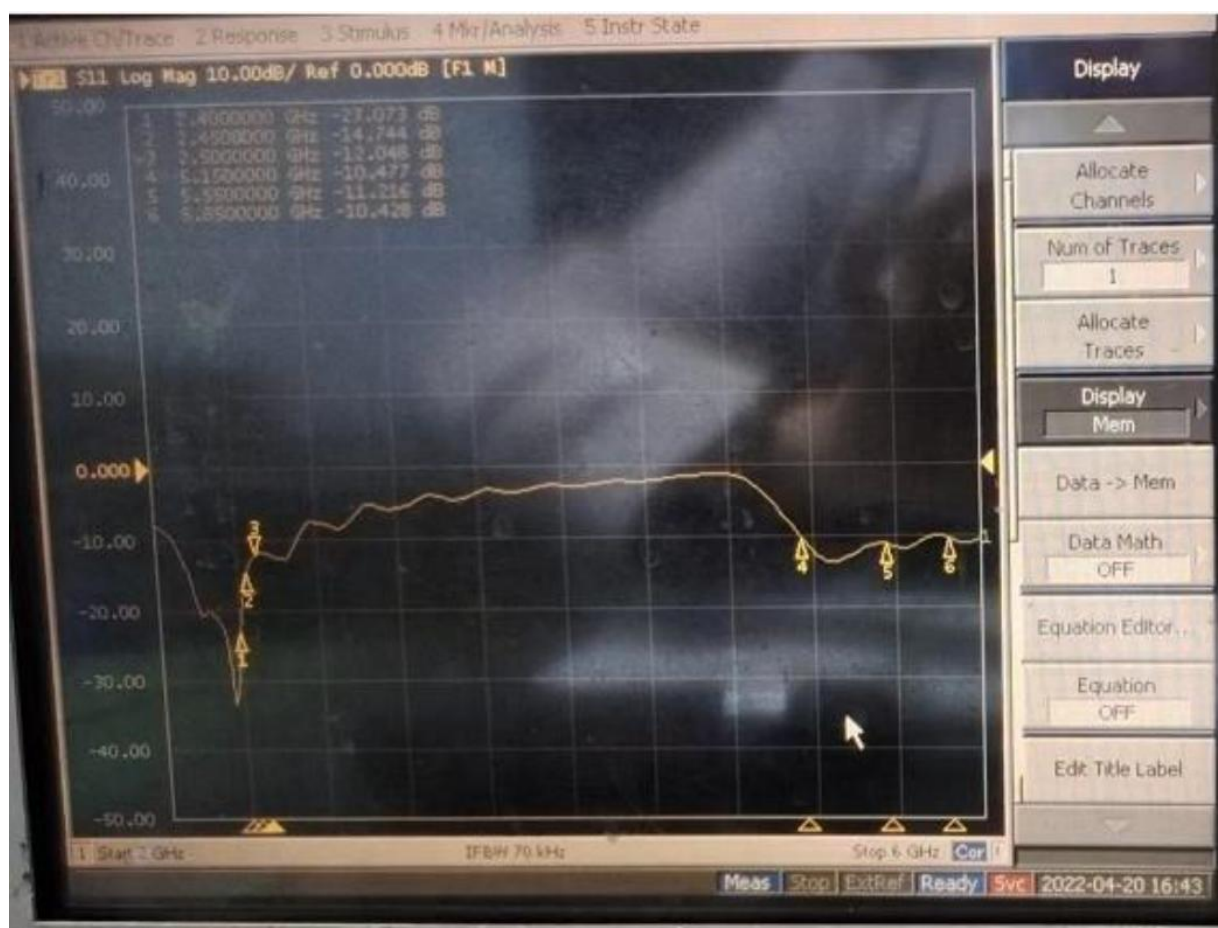
S 参数测试

S Parameter Test

Agilent E5071C Network Analyzer

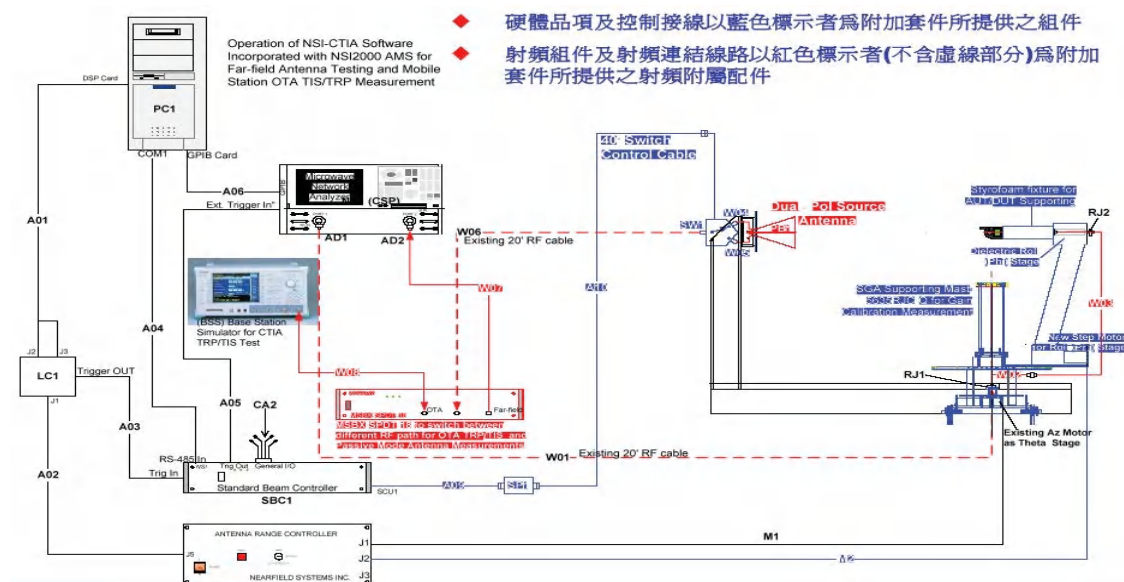


RF Antenna (NO. 1)

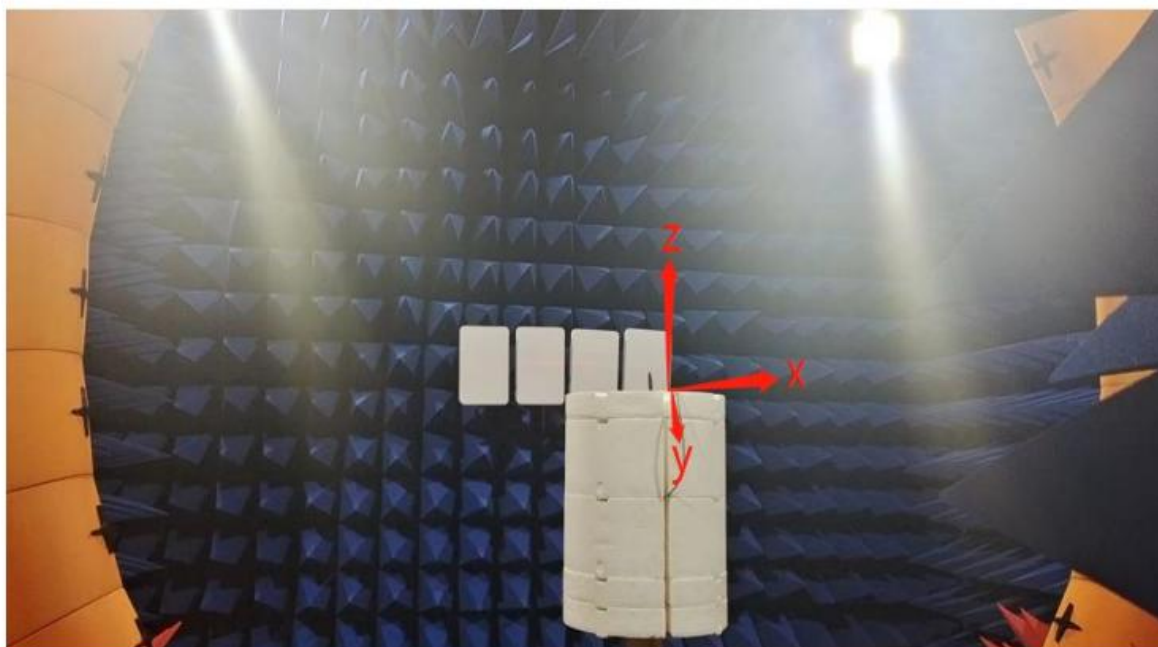


测试设备 Test Setup

NFC-500S 3D Chamber Coordinate System Definition

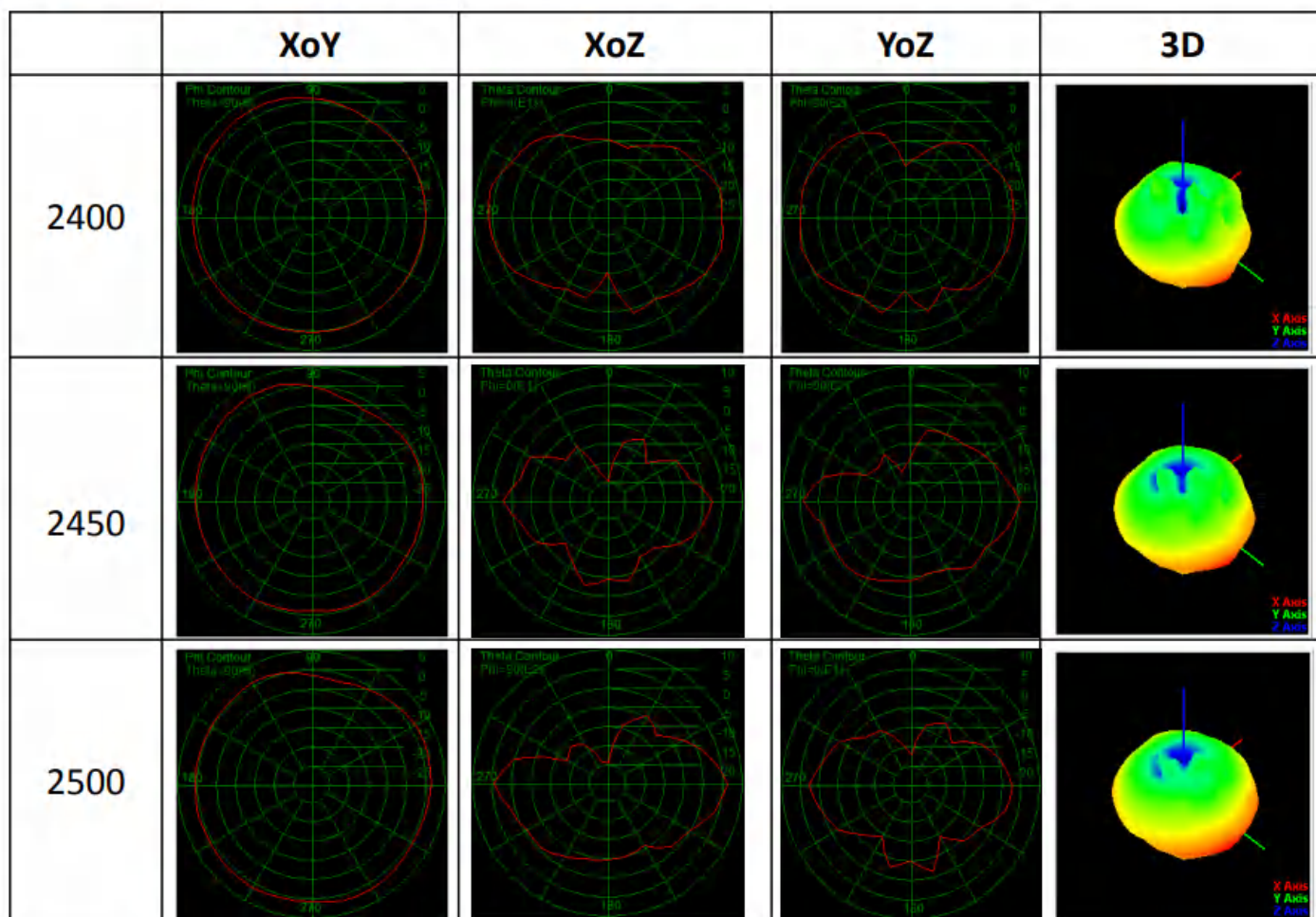


Antenna Introduction



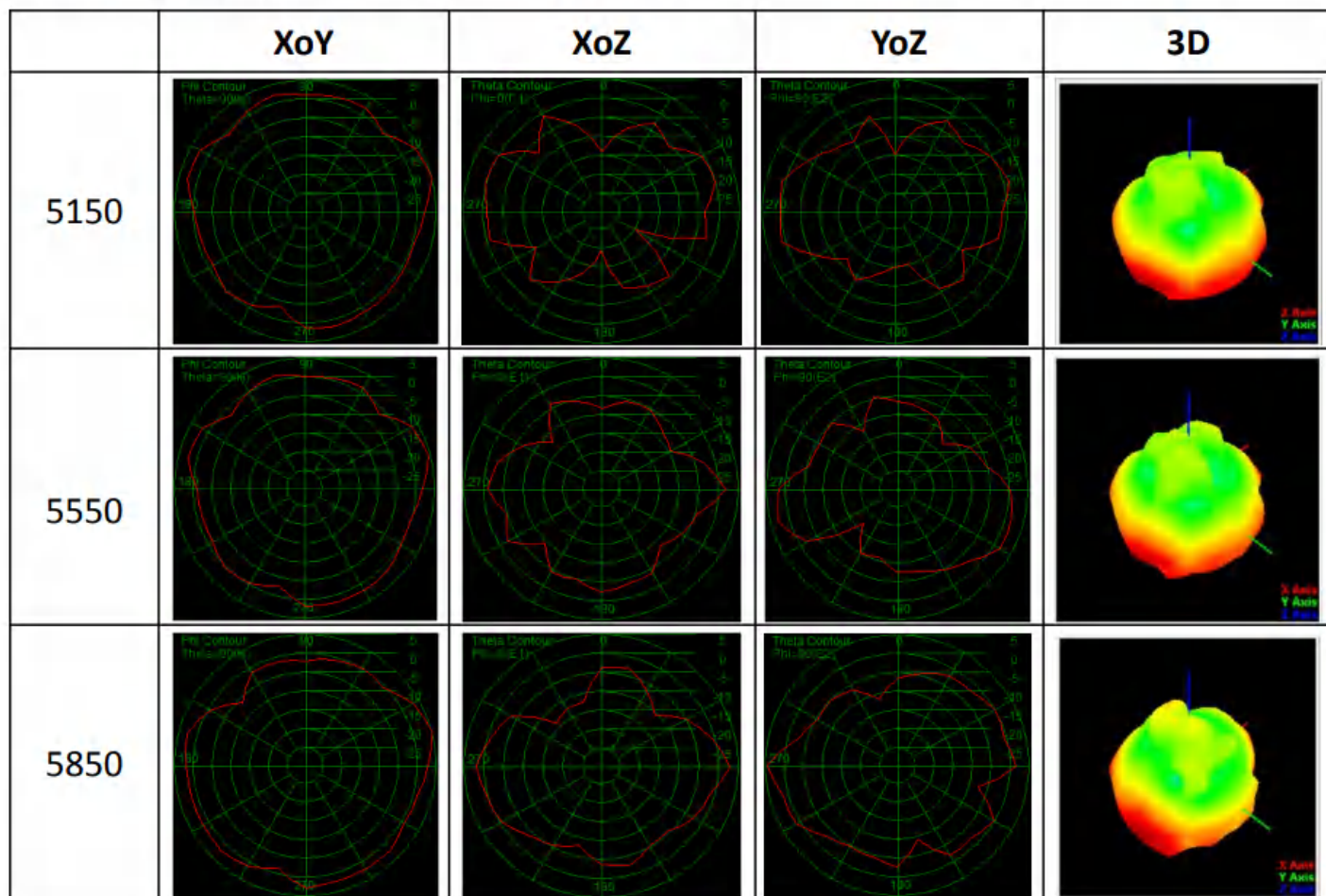
方向图

Gain & Patterns test results 3D patterns



方向图

Gain & Patterns test results 3D patterns



测试效率

Test Efficiency

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	2.52	68.9%
2	2410.0	2.56	67.6%
3	2420.0	2.58	67.2%
4	2430.0	2.57	68.5%
5	2440.0	2.59	68.7%
6	2450.0	2.55	67.5%
7	2460.0	2.58	68.6%
8	2470.0	2.54	68.6%
9	2480.0	2.53	68.6%
10	2490.0	2.54	68.7%
11	2500.0	2.50	67.4%
12	5150.0	2.52	68.5%
13	5200.0	2.50	68.4%
14	5250.0	2.52	68.3%
15	5300.0	2.46	68.4%
16	5350.0	2.55	68.8%
17	5400.0	2.48	68.3%
18	5450.0	2.49	68.4%
19	5500.0	2.44	68.1%
20	5550.0	2.53	68.6%
21	5600.0	2.47	68.9%
22	5650.0	2.54	69.1%
23	5700.0	2.59	69.1%
24	5750.0	2.53	69.8%
25	5800.0	2.57	68.9%
26	5850.0	2.58	68.5%