# 報告範例

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## 使用資料

- 台指期
- 日盤
- 樣本內:2022-03-14~2022-11-14(8個月)
- 手續費:百萬分之3(原百萬分之2加20元)

### 解釋指標

## 使用指標

● 威廉指標(Williams %R)

$$\label{eq:Wilson} \text{Wiliams } \%R = \frac{\text{Highest High} - \text{Close}}{\text{Highest High} - \text{Lowest Low}}$$

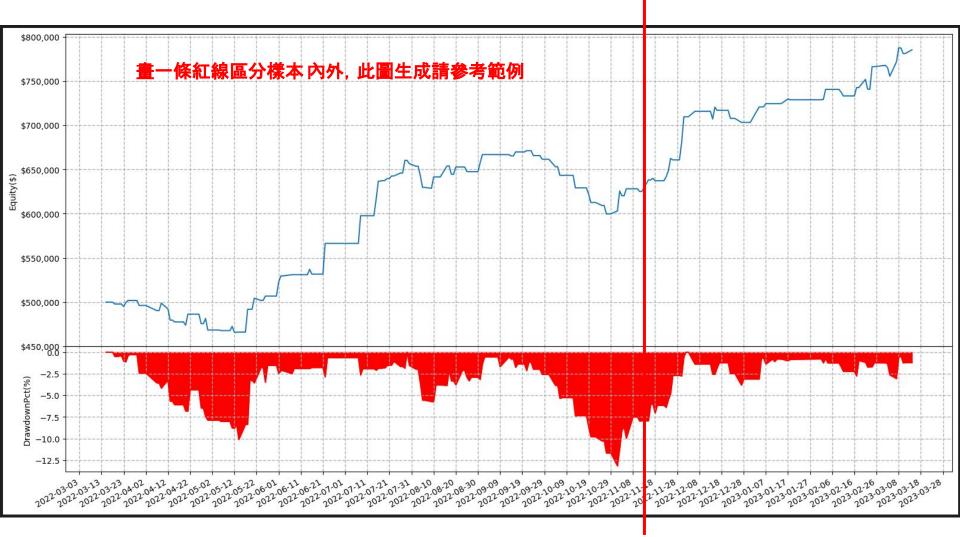
- Talib
  - PercentR = Williams %R 100
  - (收盤價越接近最近n天最高價數值越大)

### 搭配範例



## 多單策略

- 開盤15分後進場:
  - WR 向上穿越 超買區
- 出場:
  - 跌破3根低點停利停損
  - WR 向下穿越 超買區
  - 當沖13:30平倉



## 右邊貼上績效圖

# 改進方向

MDD在 2022 / 10 達到-13%. 增加固定停損

條列觀察到的問題以及改進方向

End 2023-03-13 13:50:00 Duration Exposure Time [%] Equity Final [\$] Equity Peak [\$] Return [%]

Buy & Hold Return [%] Return (Ann.) [%]

Volatility (Ann.) [%] Sharpe Ratio Sortino Ratio

# Trades

Win Rate [%]

Best Trade [%]

Worst Trade [%]

Avg. Trade [%]

Profit Factor

Expectancy [%]

SON

Max. Trade Duration

Avg. Trade Duration

Start

Calmar Ratio

Max. Drawdown [%]

-13.165401 -1.214109 75 days 00:55:00

Avg. Drawdown [%] Max. Drawdown Duration

5 days 02:51:00

Avg. Drawdown Duration

1.144572 -0.32150.04255

2022-03-14 08:50:00

364 days 05:00:00

14.740661

785208.12

790585.916

57.041624

-10.237131

59.382815

29.507406

2.012472

7.285292

4.510521

33.031674

221

0 days 04:05:00

0 days 00:45:00 1.724902

0.04285

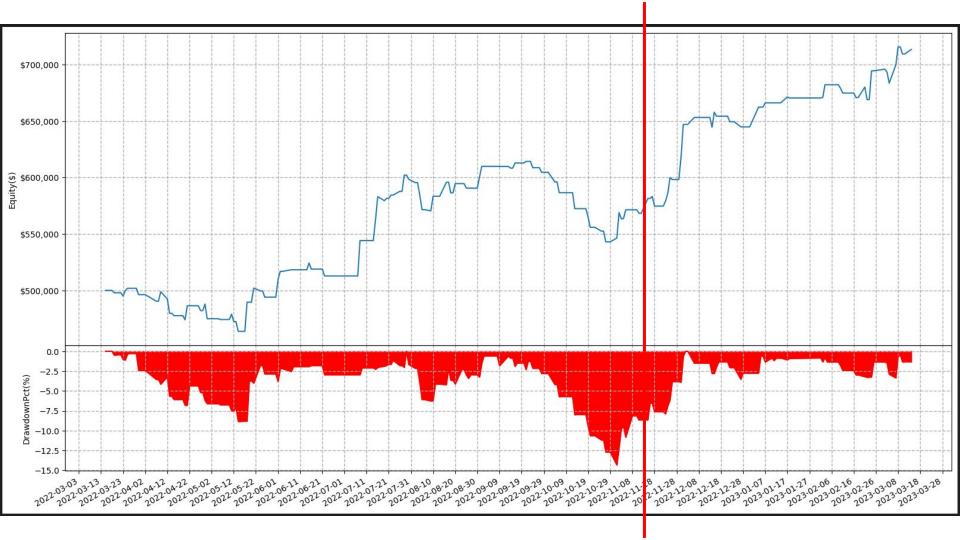
2.640423 strategy WL equity curve trades Size Entry... dtype: object

### 改進策略後, 進出場條件一樣寫清楚

## 多單策略

- 開盤15分後進場:
  - WR 向上穿越 超買區
- 出場:
  - 百分比停損 0.1%
  - 跌破3根低點停利停損
  - WR 向下穿越 超買區
  - 當沖13:30平倉

WL = 65 OB = -30 stop\_pct = 1 #表示0.1%



## 改進方向

- 1. 沒有用, Worst Trade 還是-0.29%
- 改成stop單
- 觀察發現有重複進場問題(停損了又進場)
- 4. 改變進場條件



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Start
End
Duration
Exposure Time
Equity Final
Equity Peak [
Return [%]
Buy & Hold Re
Return (Ann.)
Volatility (A
Sharpe Ratio
Sortino Ratio
Calmar Ratio
Max. Drawdown
Avg. Drawdown
Max. Drawdown
Avg. Drawdown
# Trades
Win Rate [%]
Best Trade [%
Worst Trade [
Avg. Trade [%
Max. Trade Du
Avg. Trade Du
Profit Factor
Expectancy [%
SQN
_strategy
_equity_curve
_trades
dtype: object

xposure Time [%]	13.396936
quity Final [\$]	713408.12
quity Peak [\$]	718785.916
deturn [%]	42.681624
Buy & Hold Return [%]	-10.237131
teturn (Ann.) [%]	44.354156
olatility (Ann.) [%]	26.879203
harpe Ratio	1.650129
ortino Ratio	5.059592
Calmar Ratio	3.093109
lax. Drawdown [%]	-14.339667
vg. Drawdown [%]	-1.428737
lax. Drawdown Duration	75 days 23:10:00
wg. Drawdown Duration	6 days 04:44:00
Trades	221
lin Rate [%]	30.316742
est Trade [%]	1.112657
lorst Trade [%]	-0.296948
vg. Trade [%]	0.031948
lax. Trade Duration	0 days 04:05:00
vg. Trade Duration	0 days 00:41:00
rofit Factor	1.526899
xpectancy [%]	0.032217
QN	2.091874
strategy	WL
equity_curve	
trades	Size Entry
ltype: object	

2022-03-14 08:50:00 2023-03-13 13:50:00 364 days 05:00:00

## 多單策略

- 開盤15分後進場:
  - WR 前一根向上穿越 超買區, 當根>-50
- 出場:
  - 百分比停損 0.1%(改成stop單)
  - 跌破3根低點停利停損
  - WR 向下穿越 超買區
  - 當沖13:30平倉

WL = 65 OB = -30 stop\_pct = 1 #表示0.1%

# ...以此類推