

```
In [7]: from datetime import datetime
from IPython.core.display import display, HTML
```

```
In [36]: from glob import glob
import os
from pathlib import Path
```

```
dates = """ 2023/10/10 2023/04/10 2022/10/10 2022/04/10 2021/10/10 2021/04/10 2020/10/10 2020/04/10
2019/10/10 2019/04/10 2018/10/10 2018/04/10 2017/10/10 2017/04/10 2016/10/10 2016/04/10 2015/10/10
2015/04/10 2014/10/10 2014/04/10 """ all_dates = [d.strip().replace("/", "") for d in dates.split("\n") if d.strip()]
```

```
In [28]: all_files = glob("images/20*")
```

```
In [31]: files = [dt.split('\\')[-1] for dt in all_files if datetime.fromtimestamp(os.path.getatime(dt))]
```

```
In [32]: files
```

```
Out[32]: ['20131010',
'20140410',
'20141010',
'20150410',
'20151009',
'20160408',
'20161010',
'20170410',
'20171010',
'20180410',
'20181010',
'20190410',
'20191010',
'20200410',
'20201009',
'20210409',
'20211008',
'20220408',
'20221010',
'20231010']
```

```
In [33]: all_dates = ['20131010',
'20140410',
'20141010',
'20150410',
'20151009',
'20160408',
'20161010',
'20170410',
'20171010',
'20180410',
'20181010',
'20190410',
'20191010',
'20200410',
'20201009',
'20210409',
'20211008',
'20220408',
```

```
'20221010', '20230410',
'20231010']
```

```
In [40]: def _get_img_path(dt, nday=210):
#    dt = dt.replace("/", "")
    trend_img = f"images/{dt}/Trend/RSI_Score_Trend-{nday}-v3.png"
    spy_img = f"images/{dt}/Trend/SPY-{nday}.png"
    return spy_img, trend_img

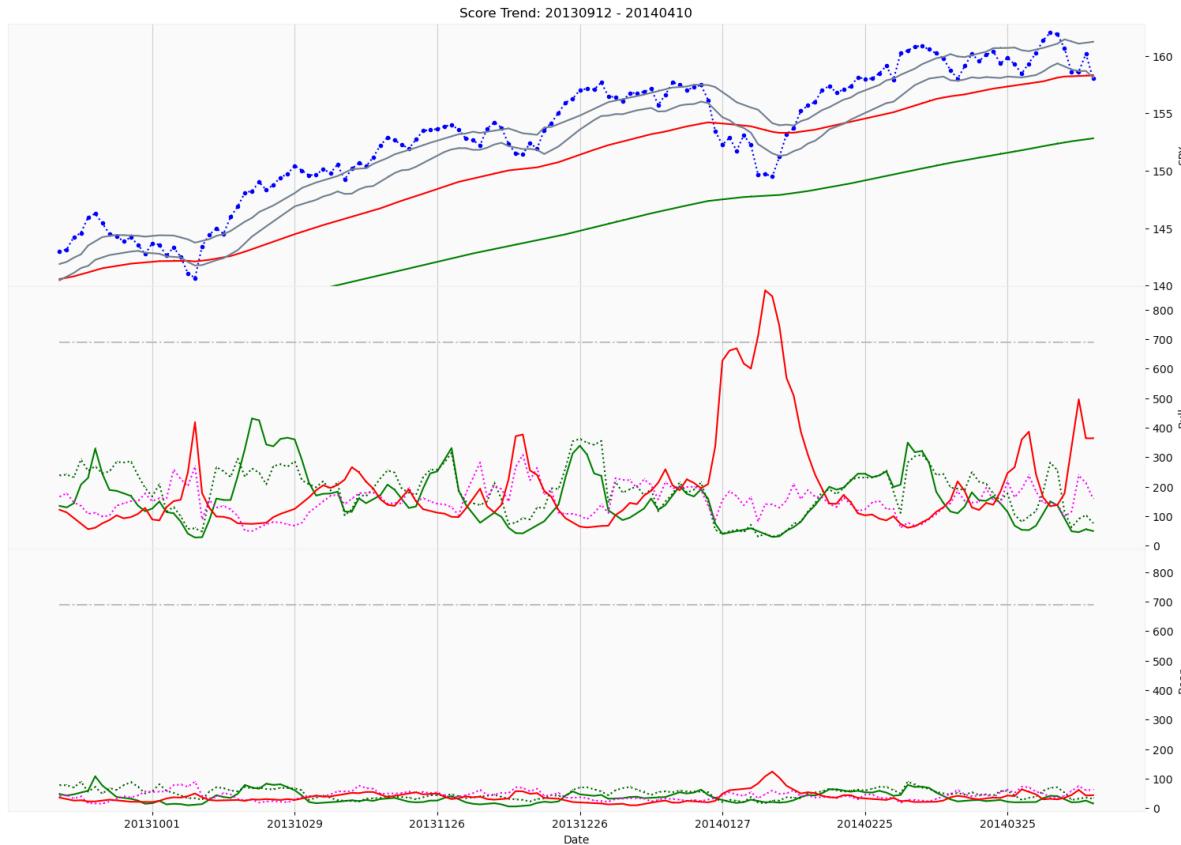
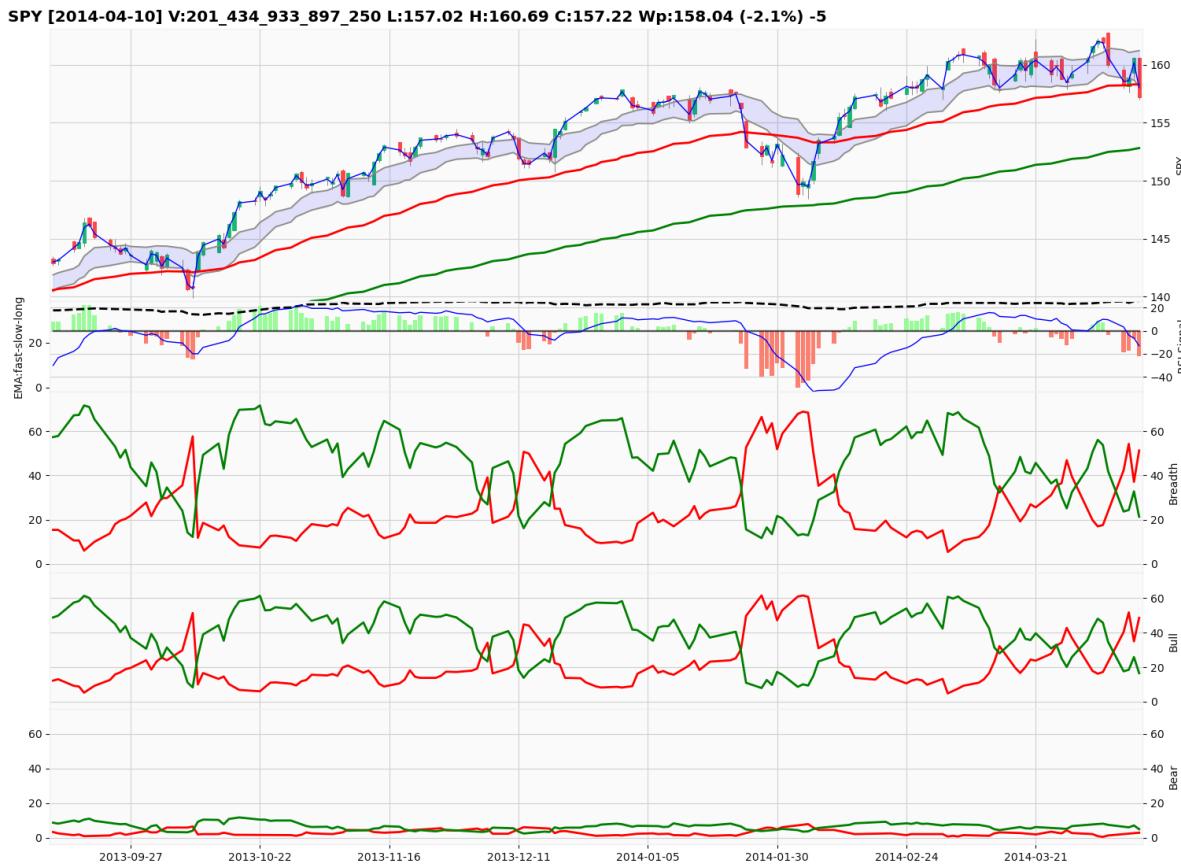
def trow(dt, width=800, height=1000):
    ret_err = []
    spy_img, trend_img = _get_img_path(dt)
    ret = ""
    if Path(spy_img).exists():
        ret += f"""
        <tr>
        <img src='{spy_img}' width={width} height={height} />
        </tr>"""
    else:
        ret_err.append(spy_img)
        # print(f"{spy_img} not found")

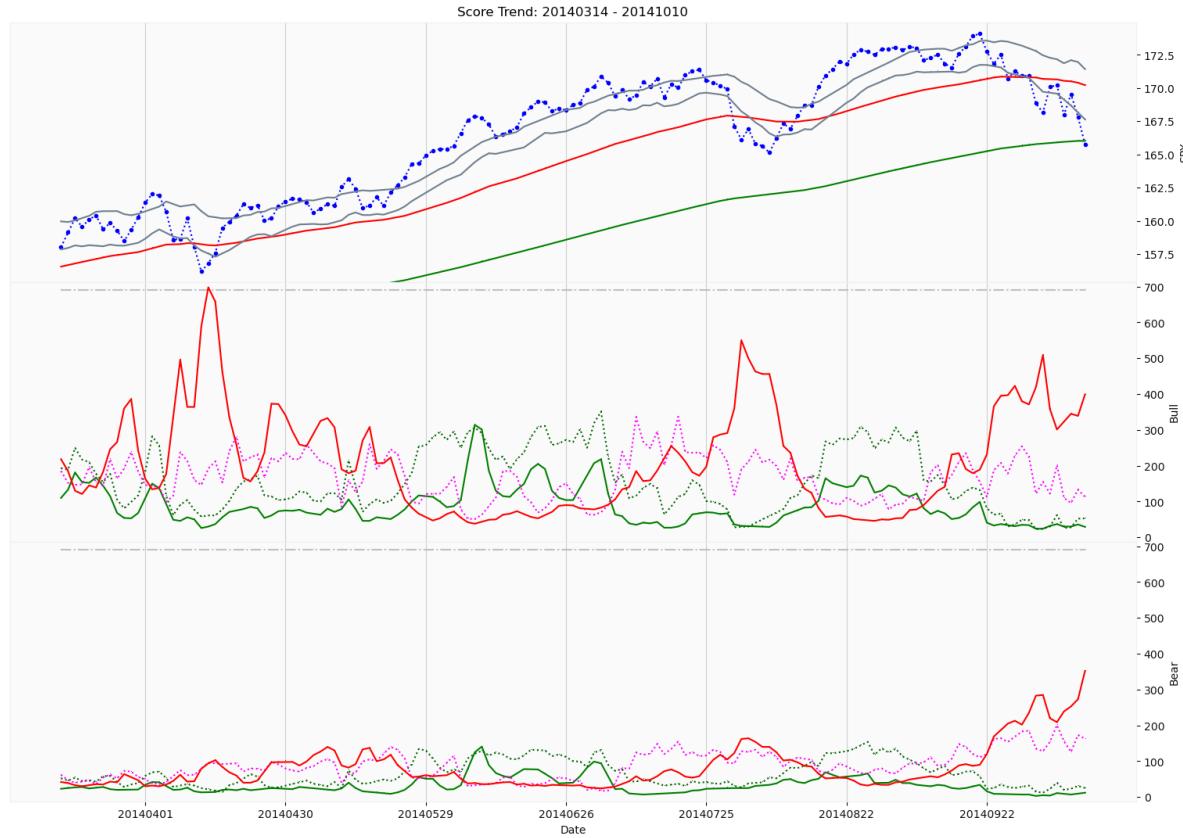
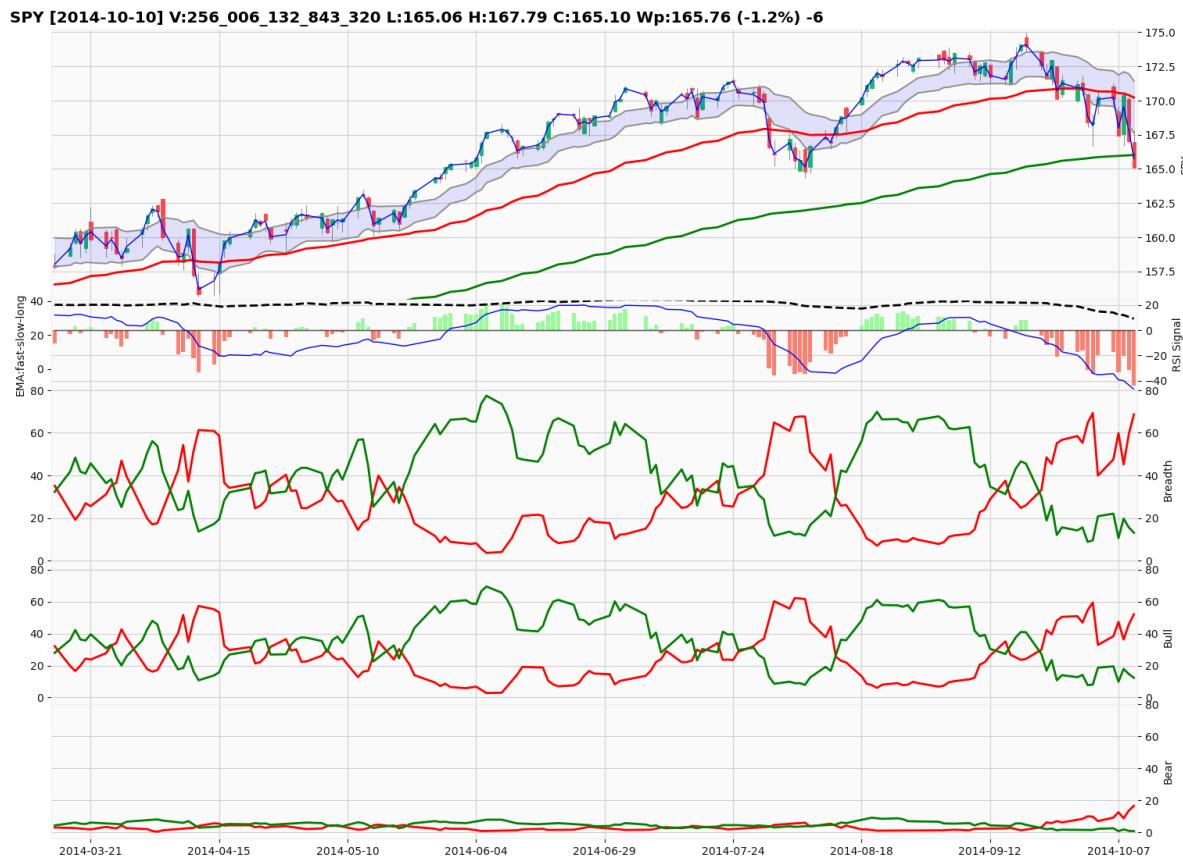
    if Path(trend_img).exists():
        ret += f"""
        <tr>
        <img src='{trend_img}' width={width} height={height} />
        </tr>"""
    else:
        ret_err.append(trend_img)
        # print(f"{trend_img} not found")

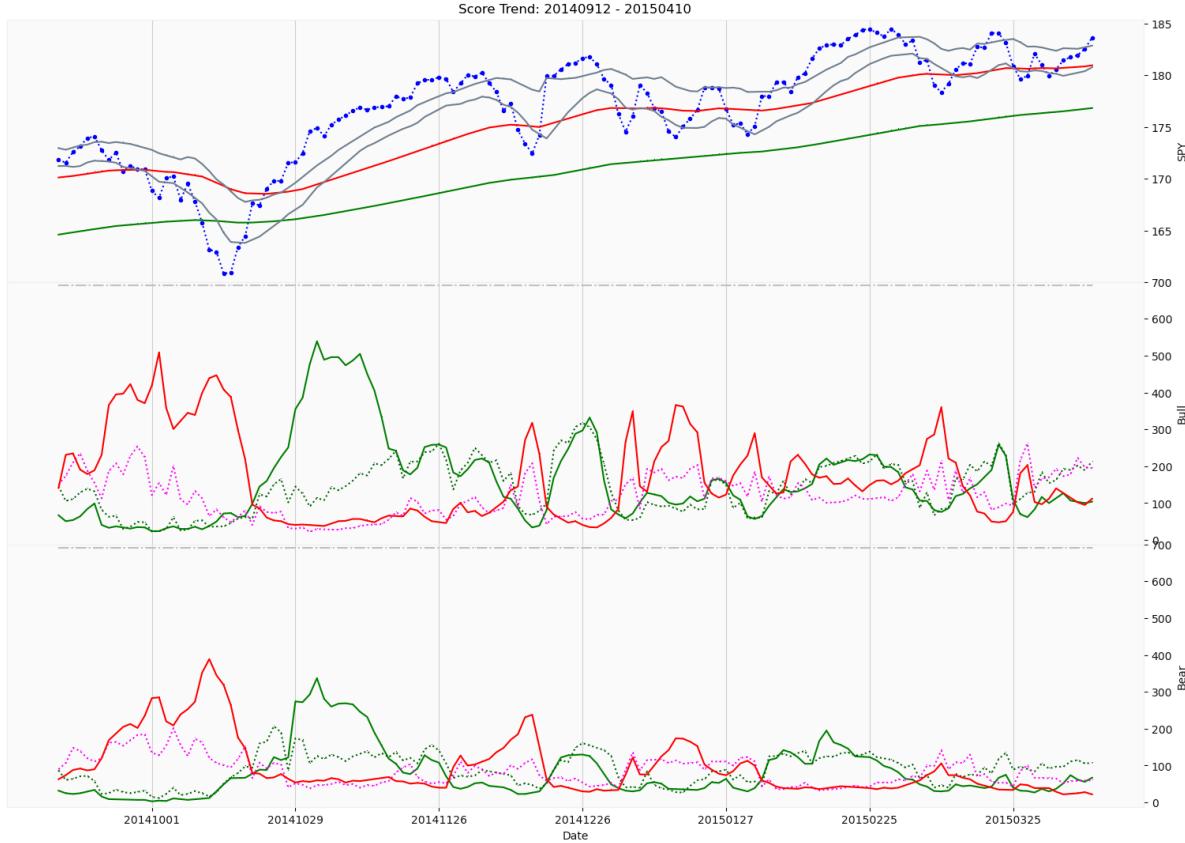
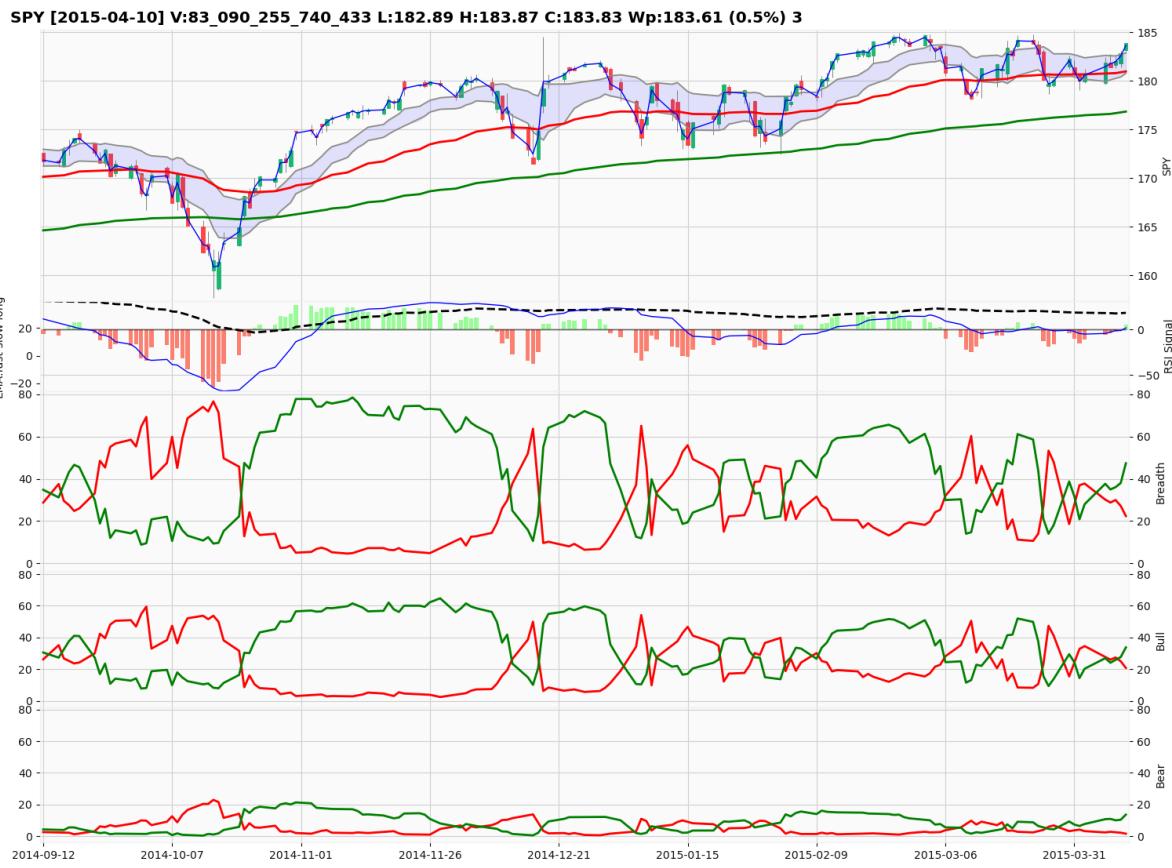
    return ret, ret_err
```

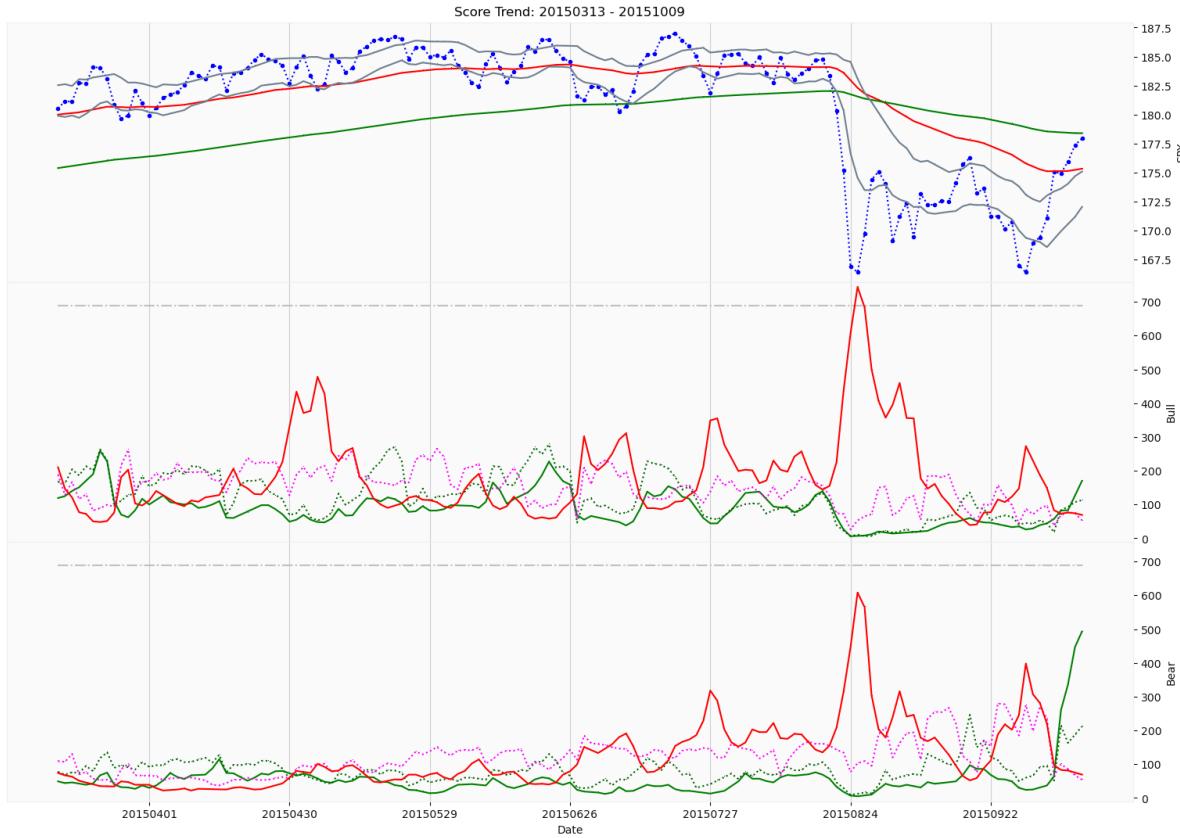
```
In [41]: errors = []
html = "<table>"
for dt in all_dates:
    ret, ret_err = trow(dt)
    if ret_err:
        errors += ret_err
    if ret:
        html += ret
html += "</table>"
display(HTML(html))

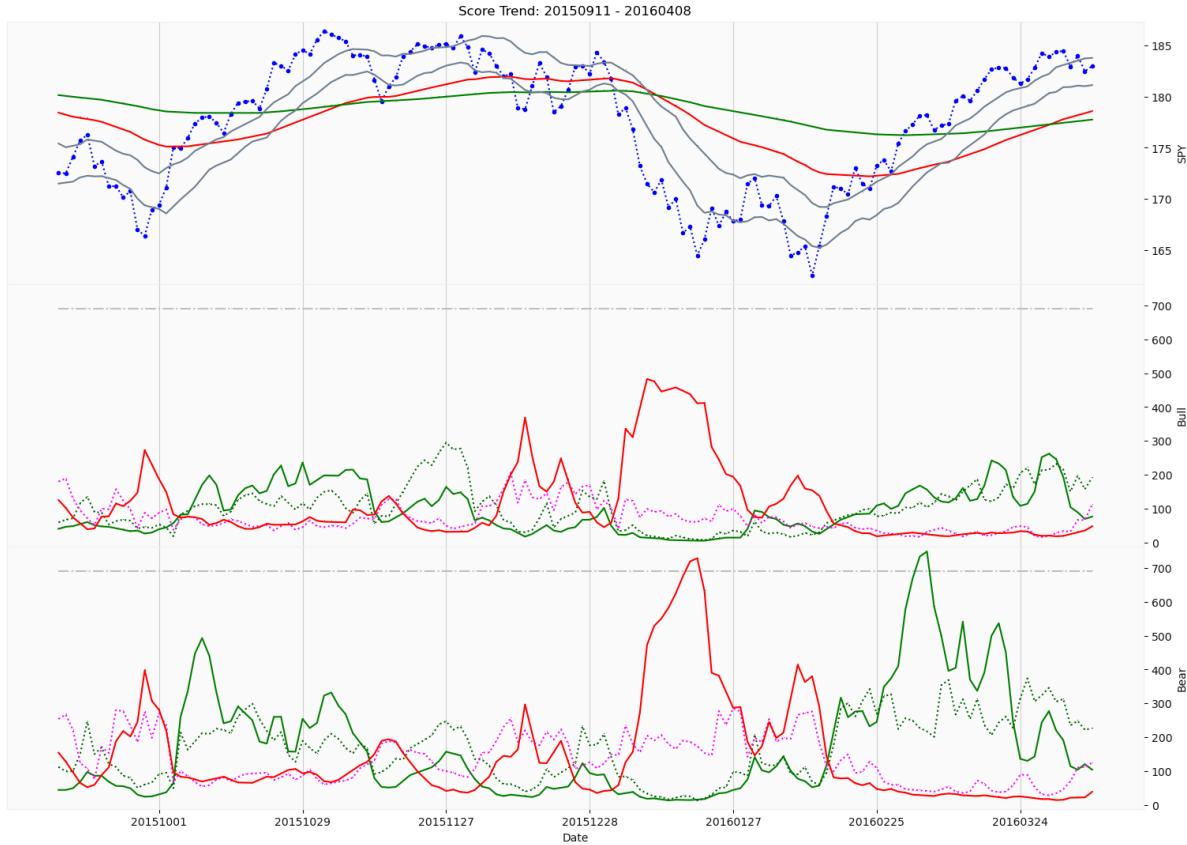
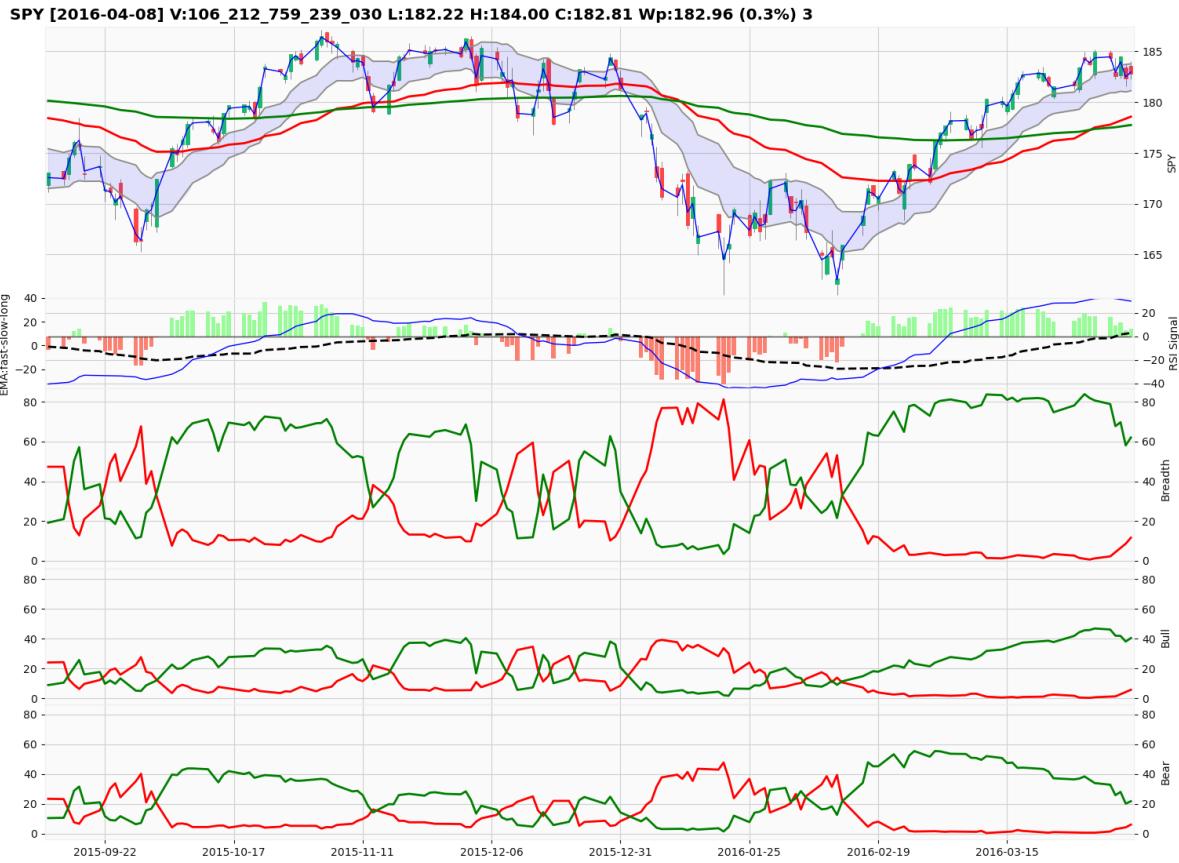
print(errors)
```

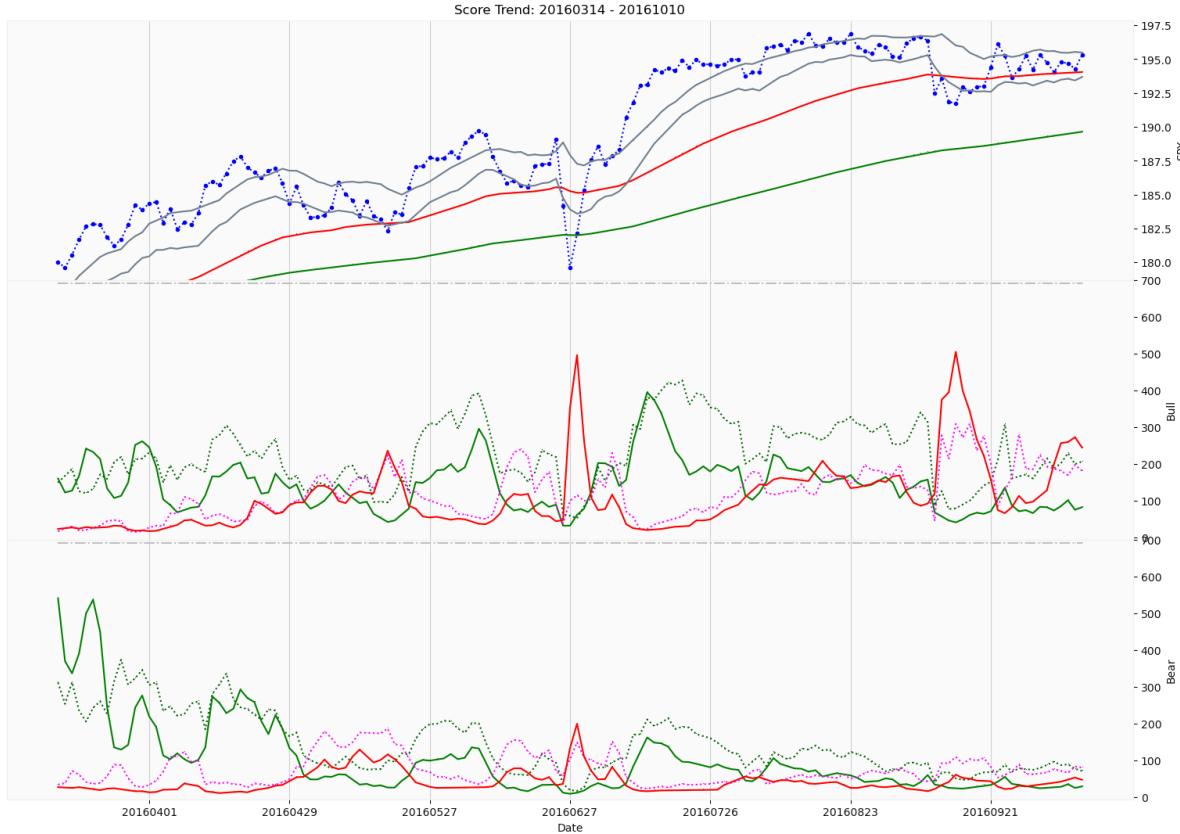
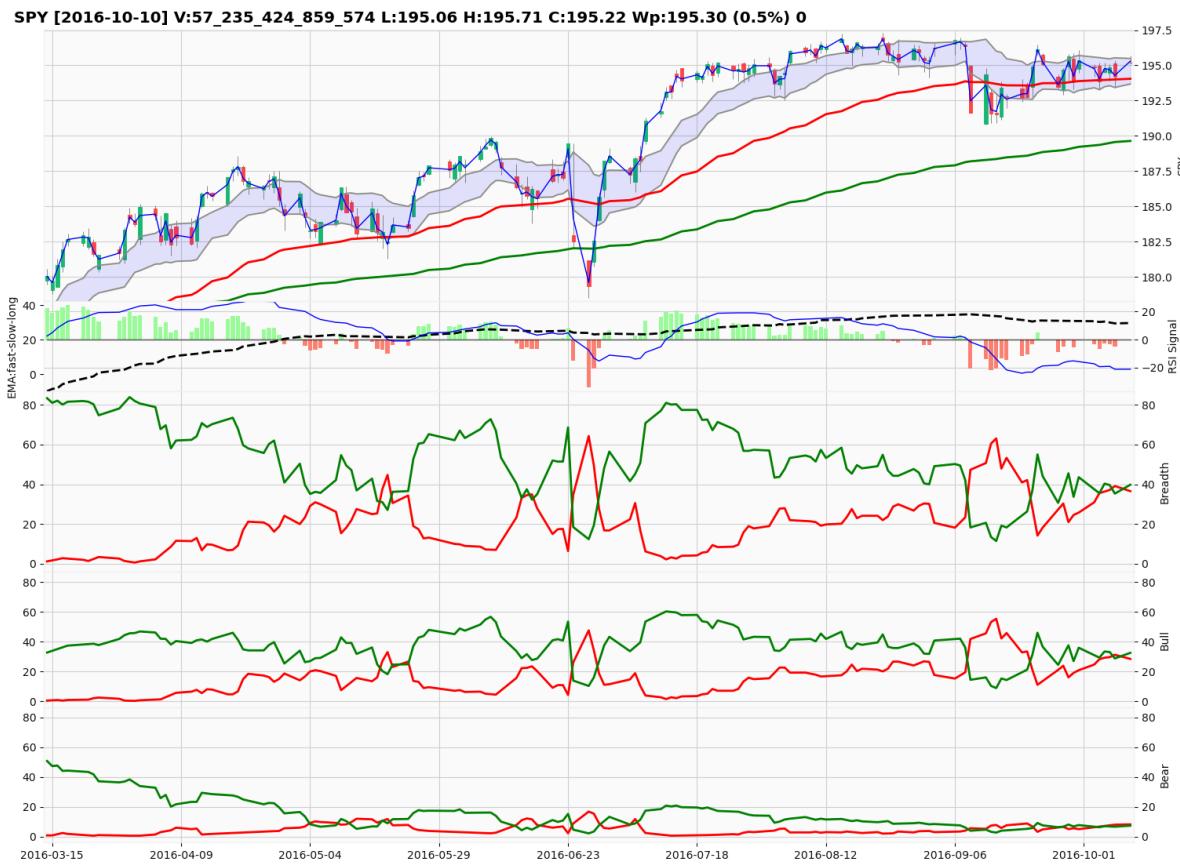


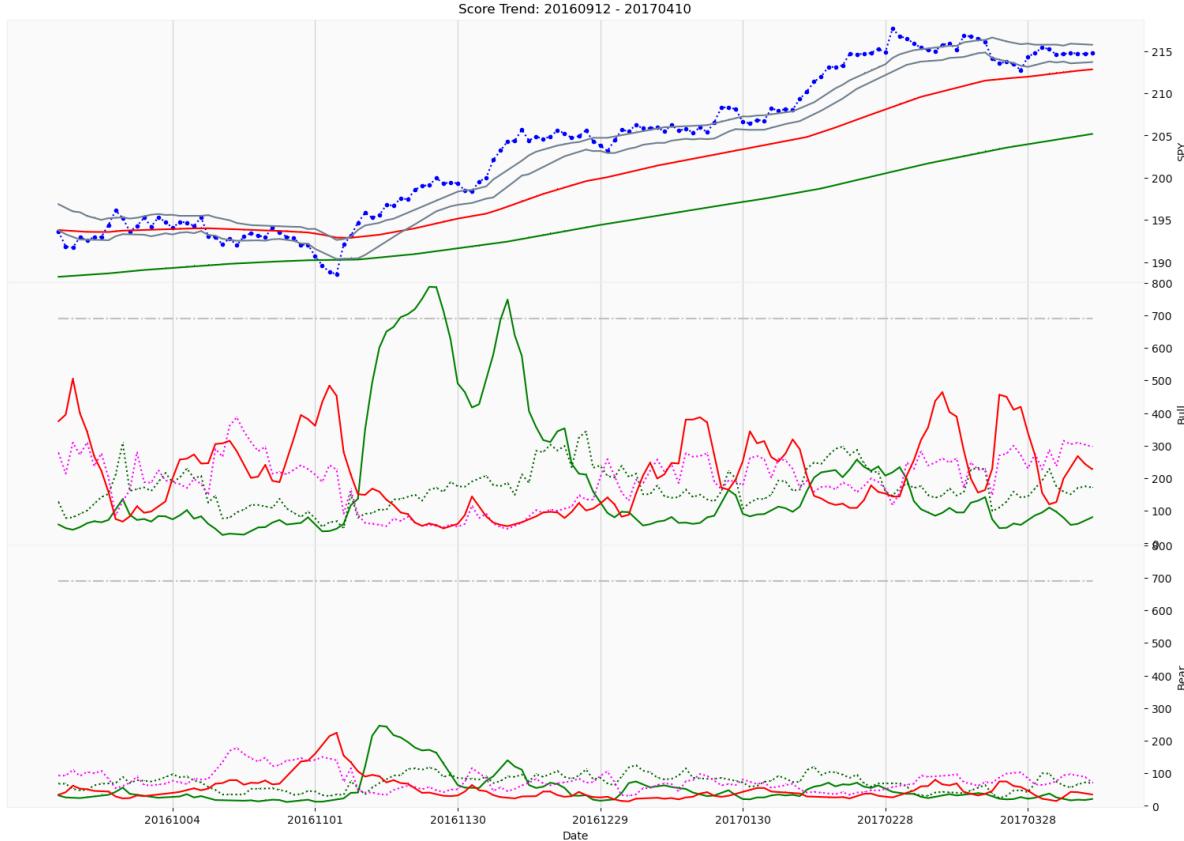
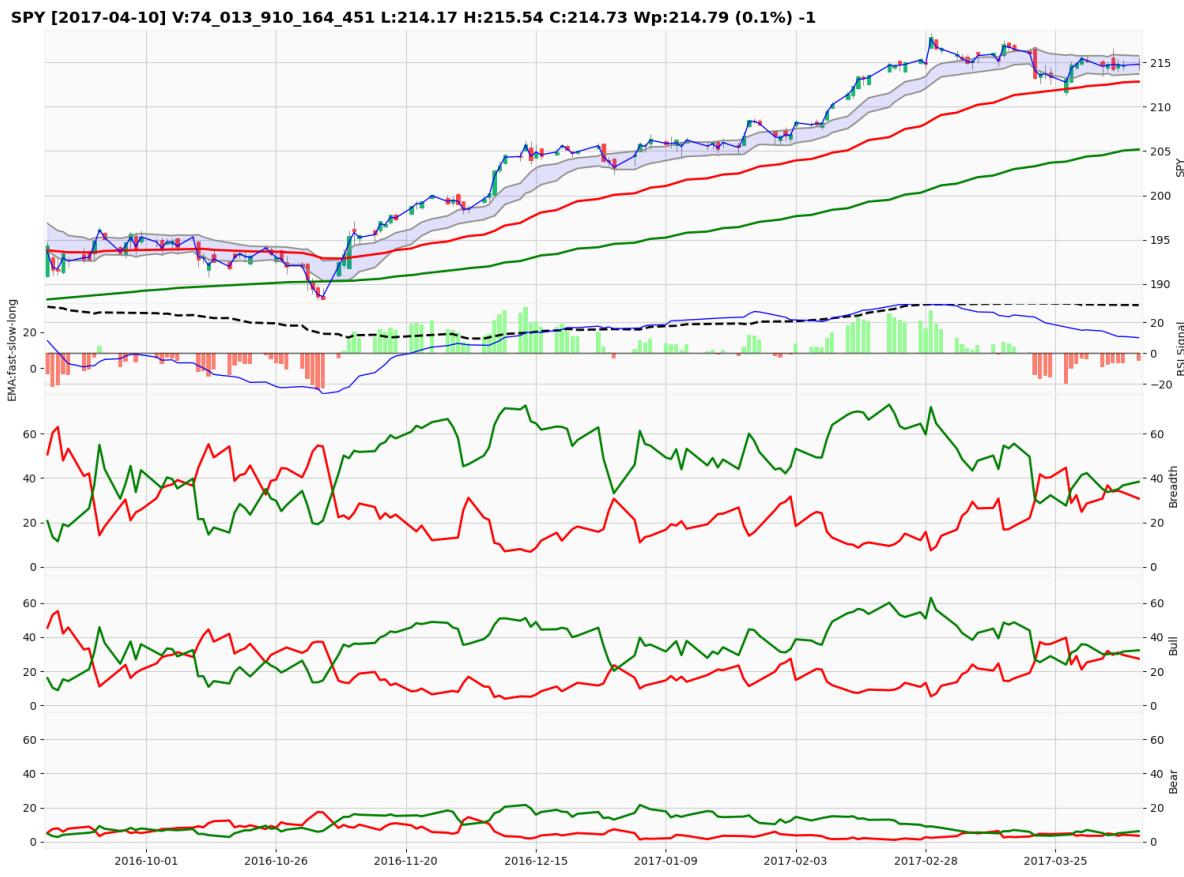


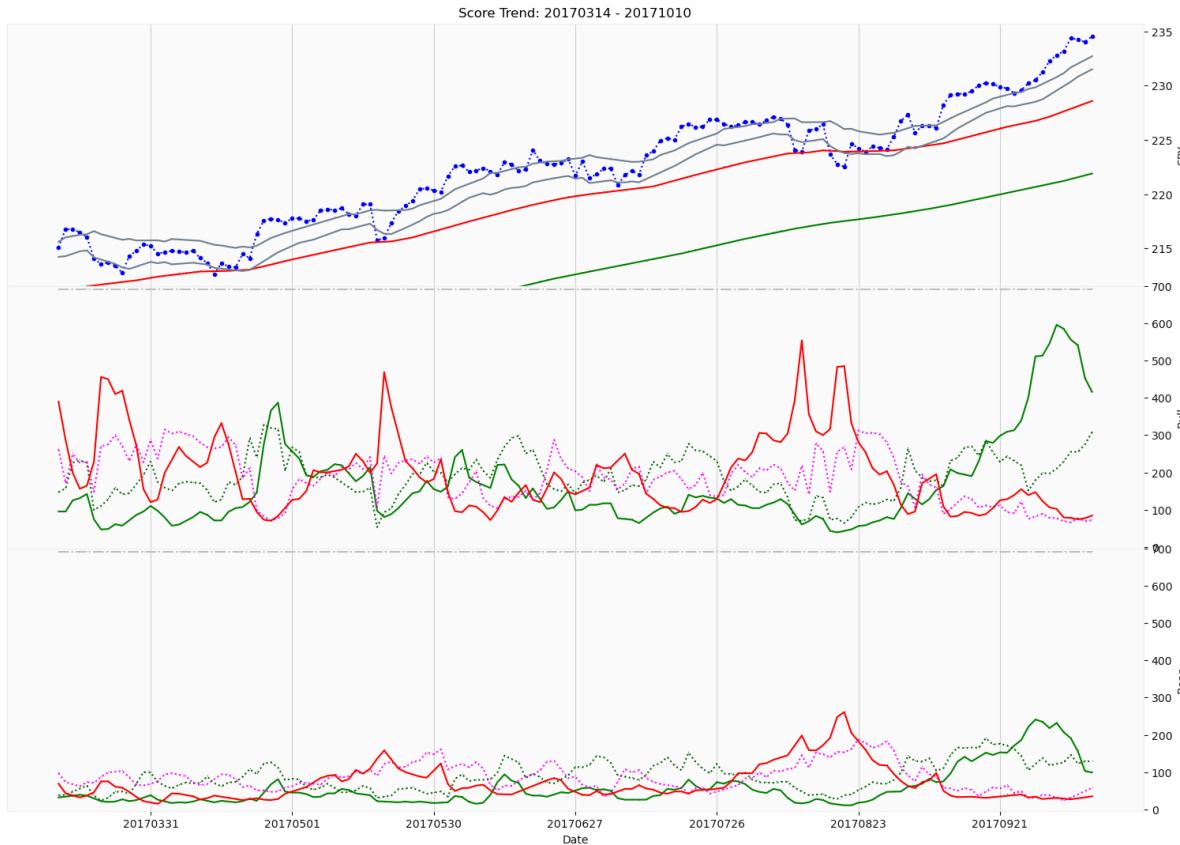
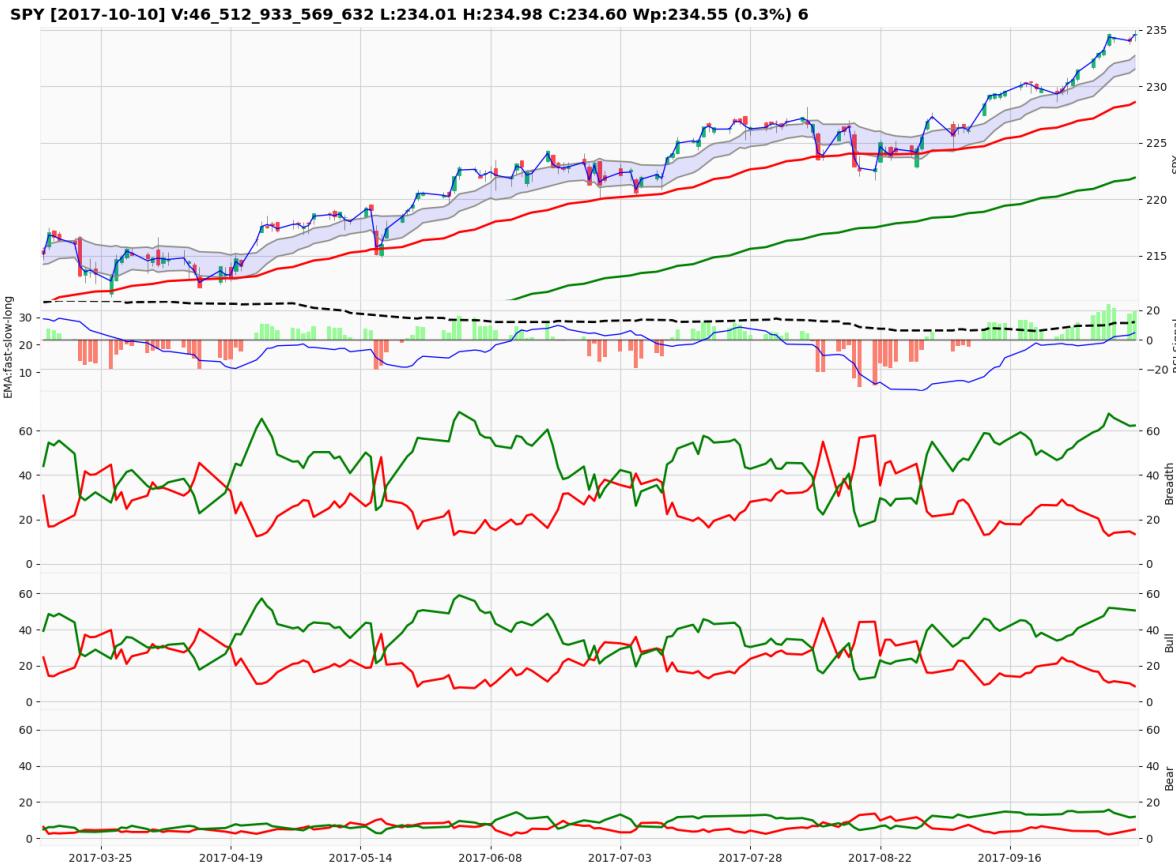


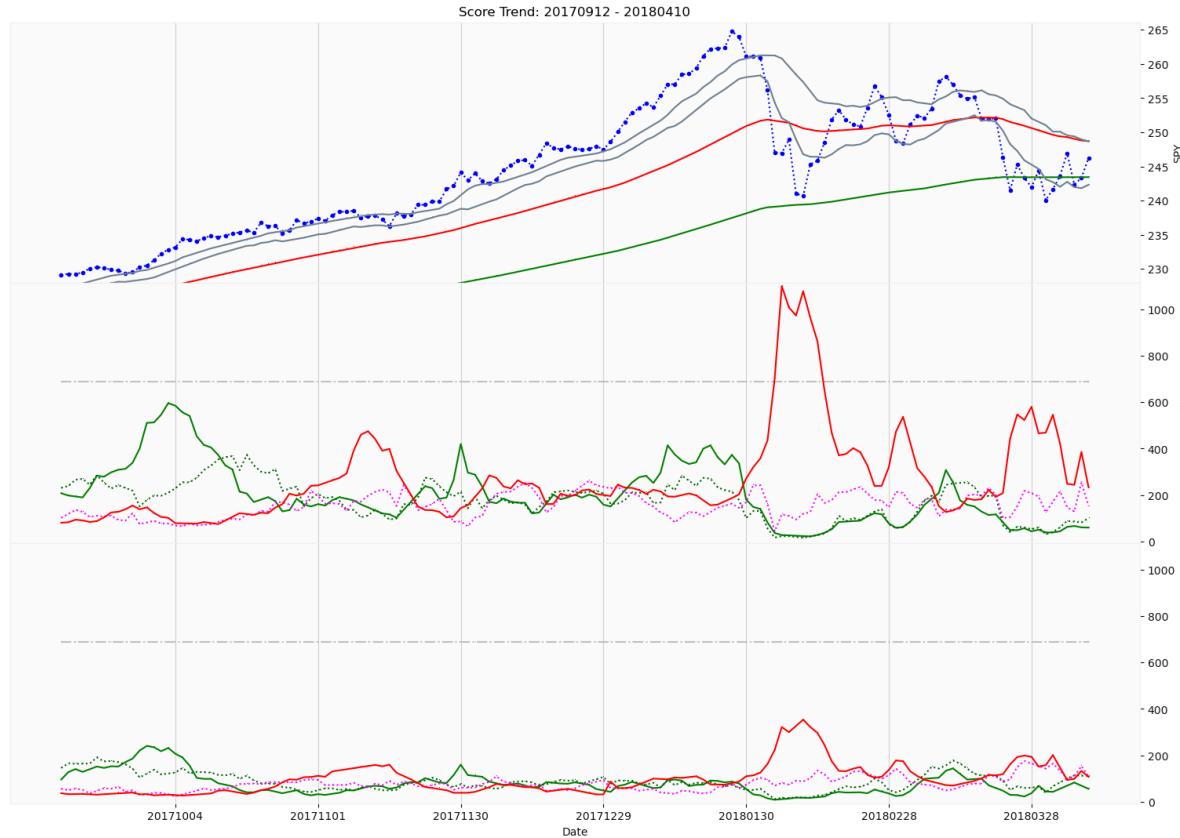
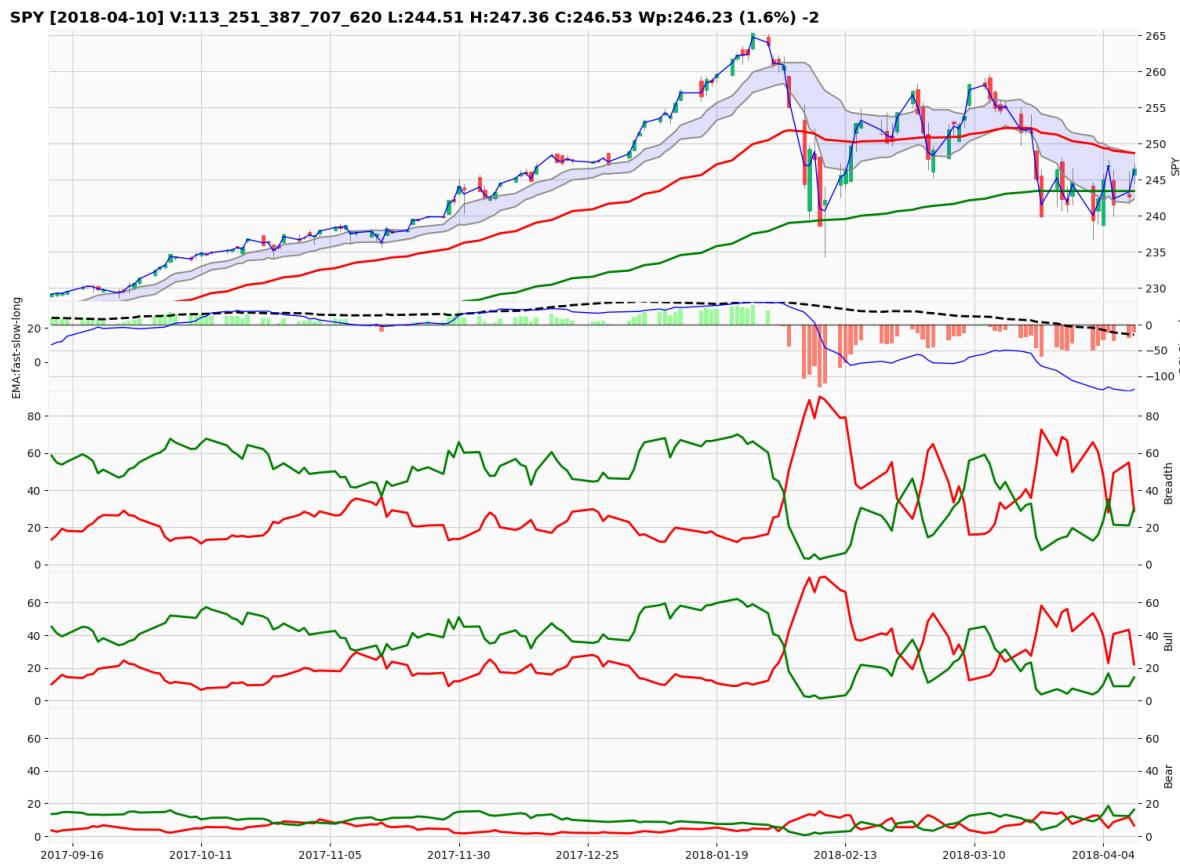


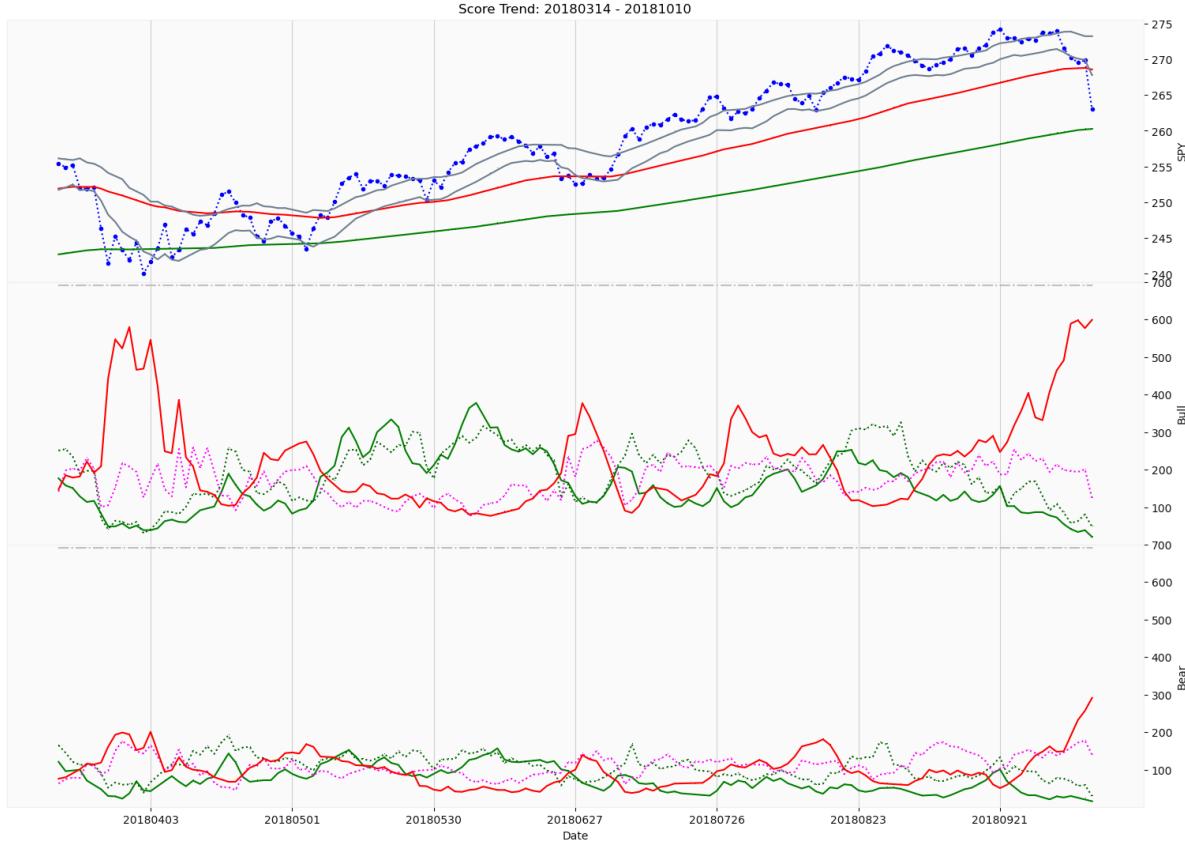
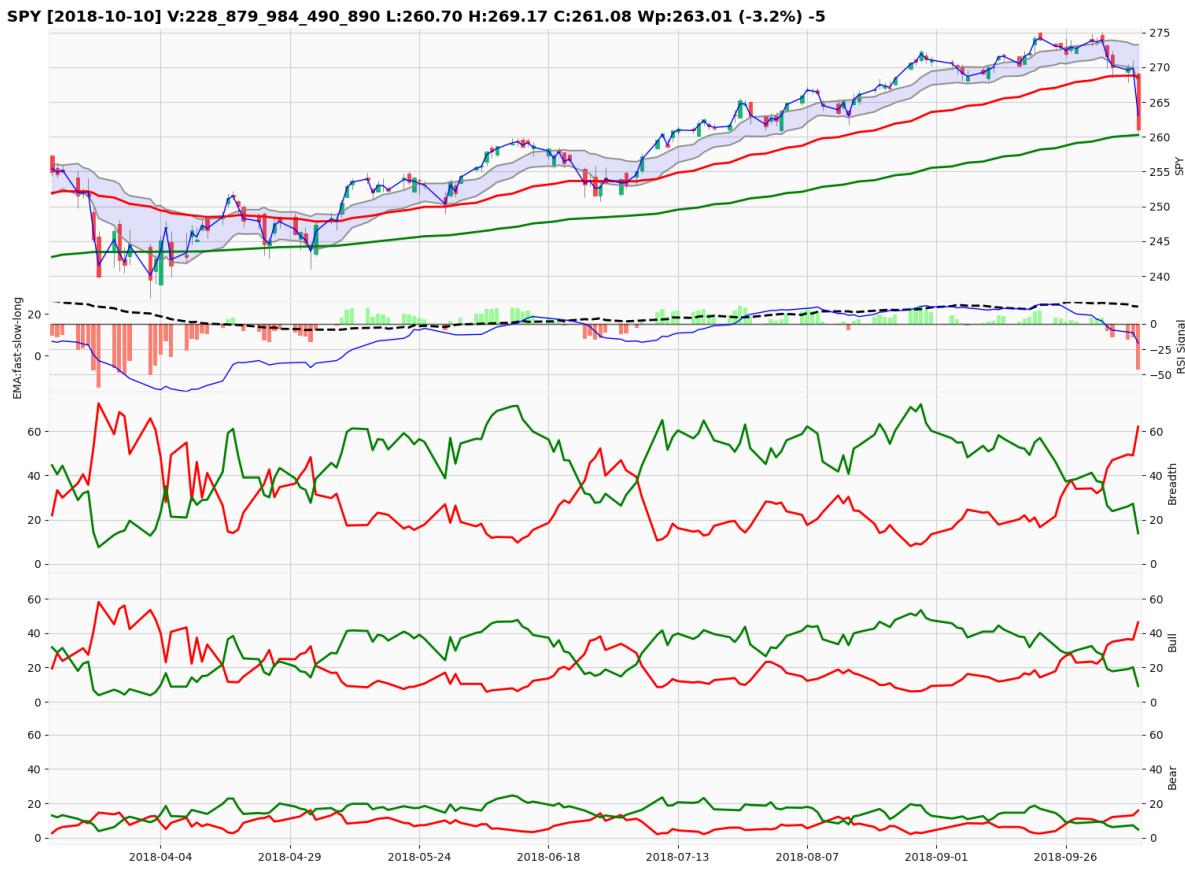


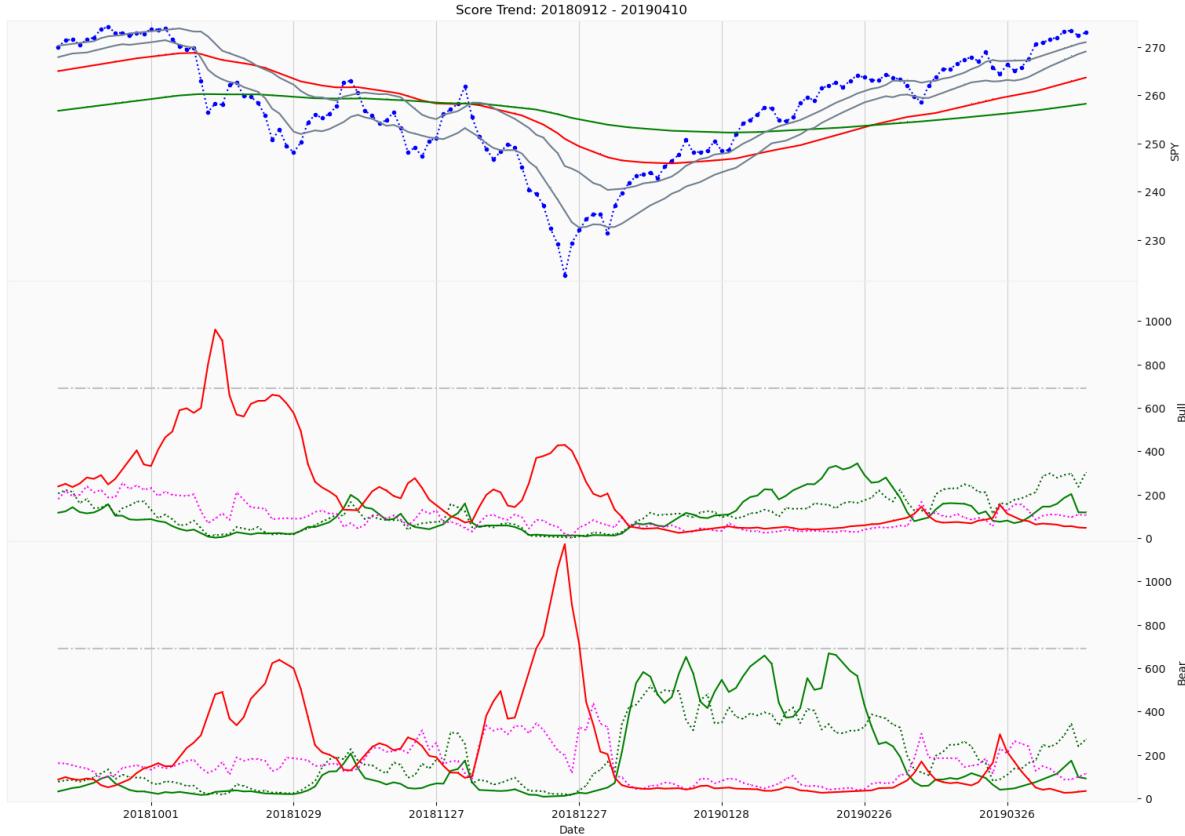
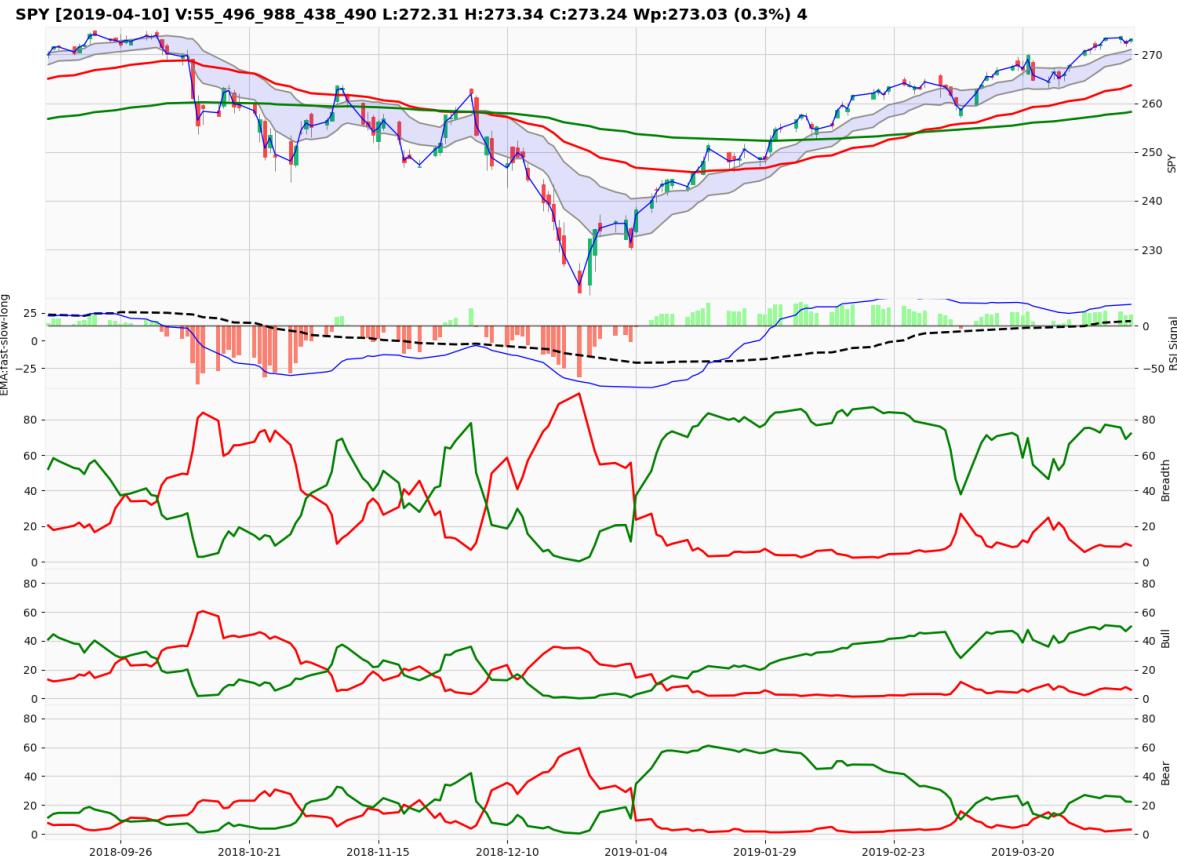


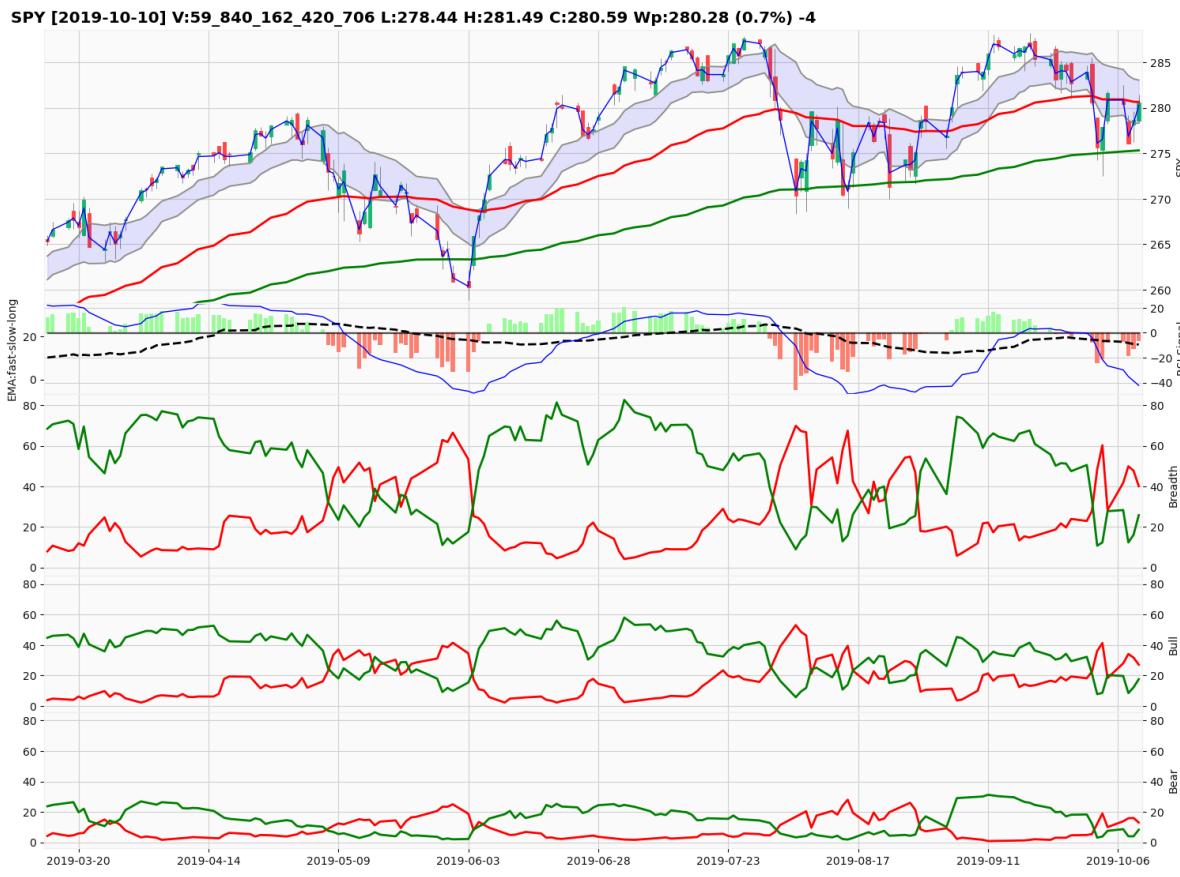


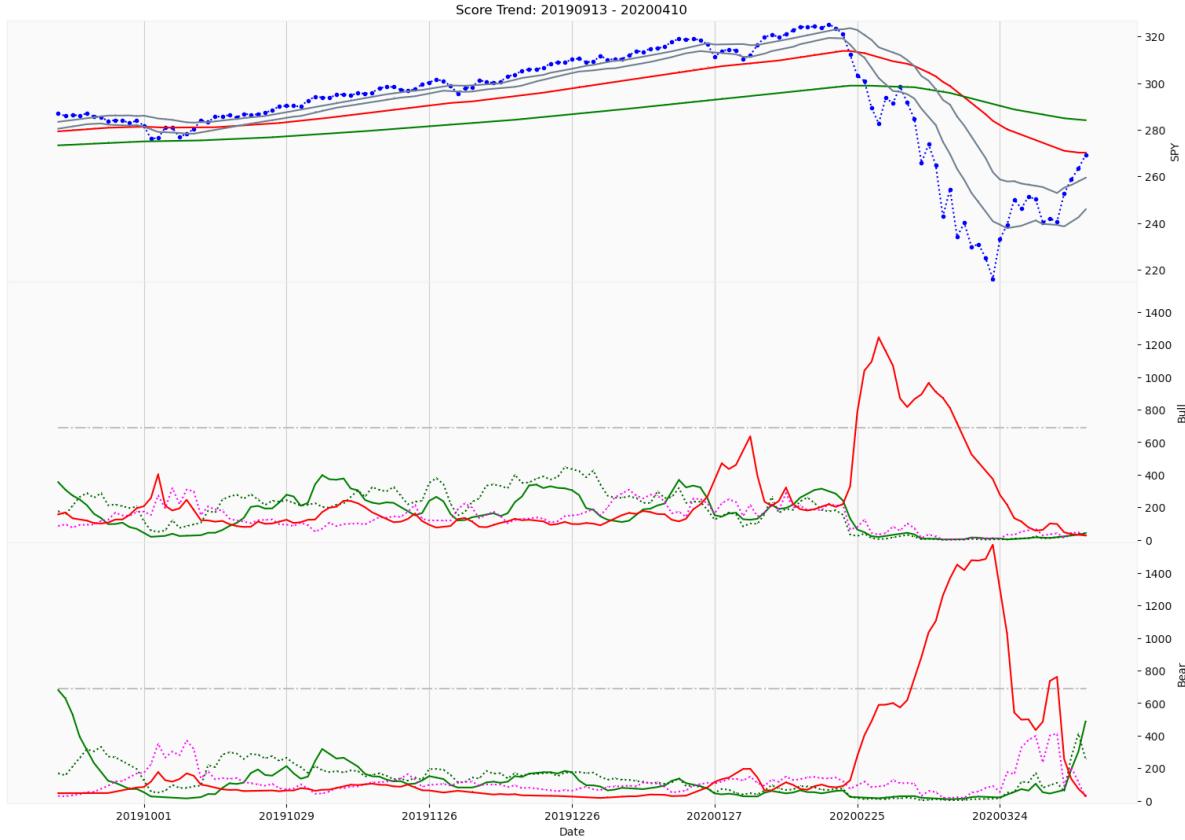
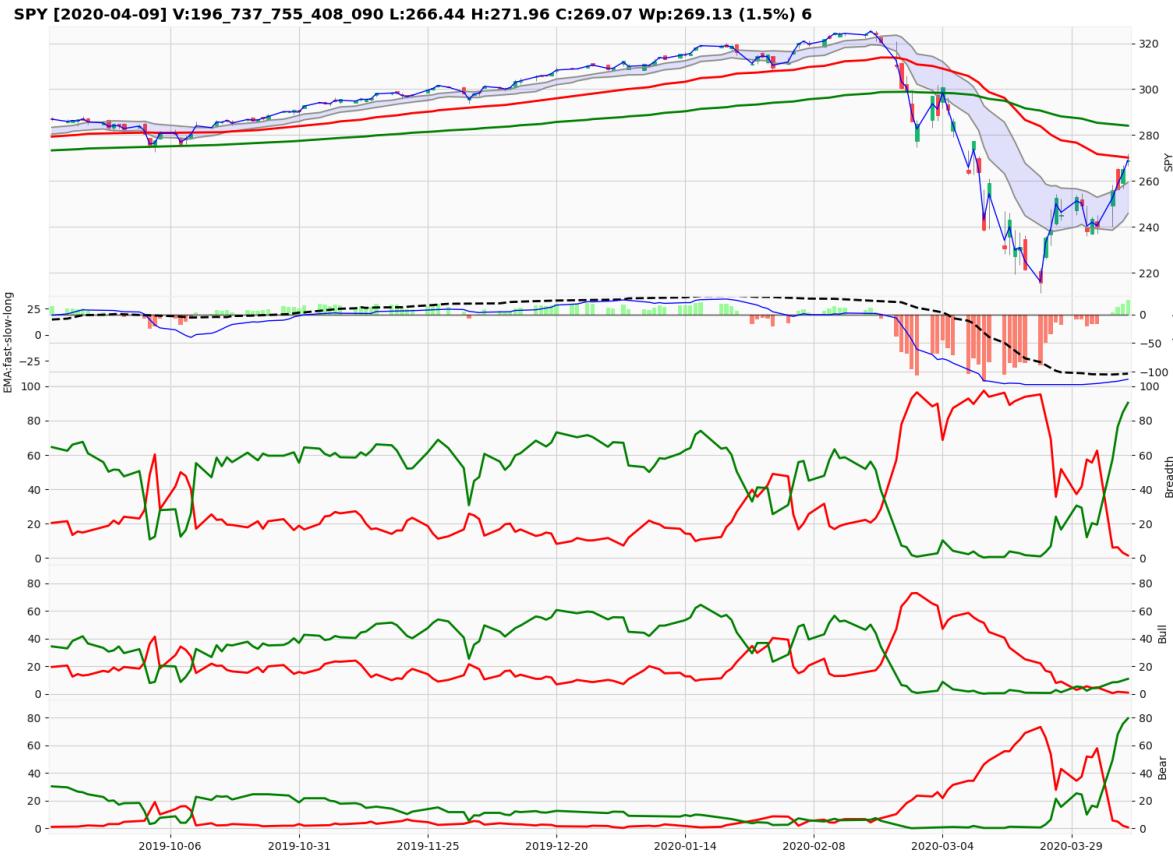


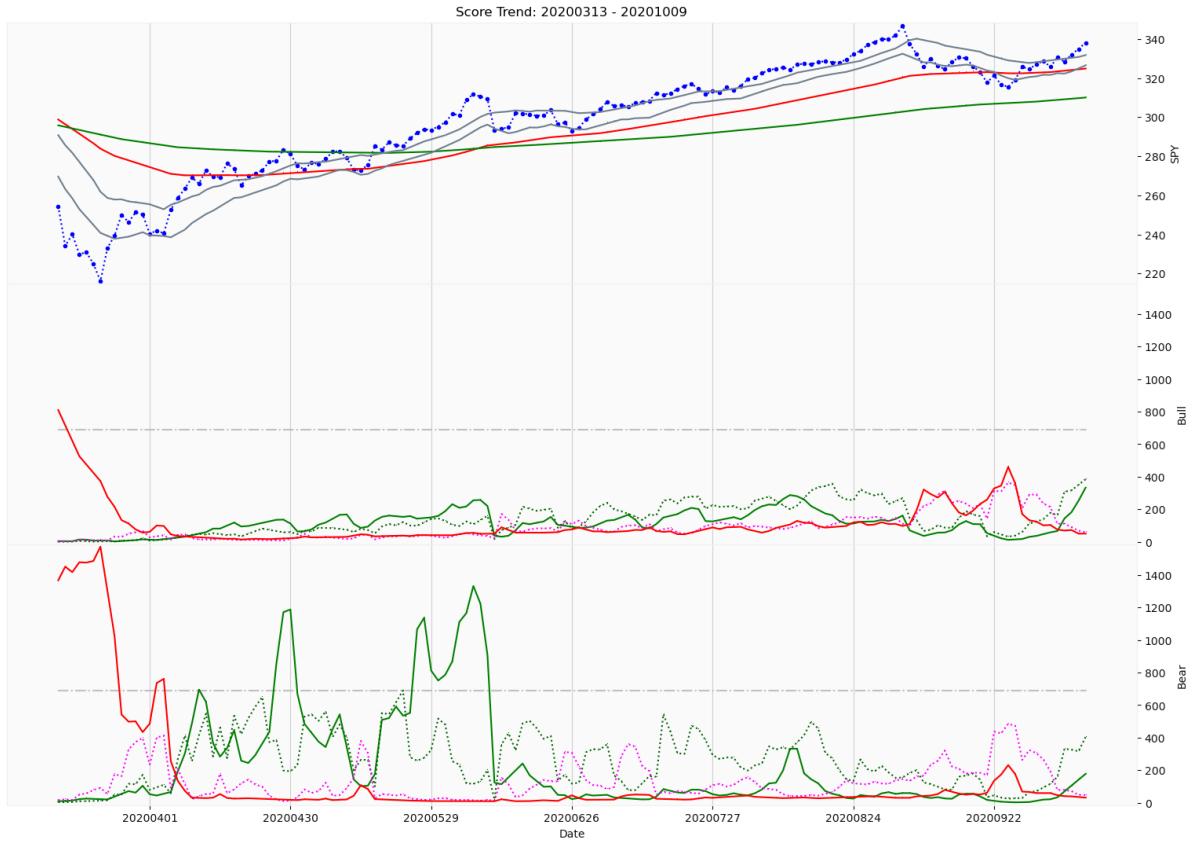
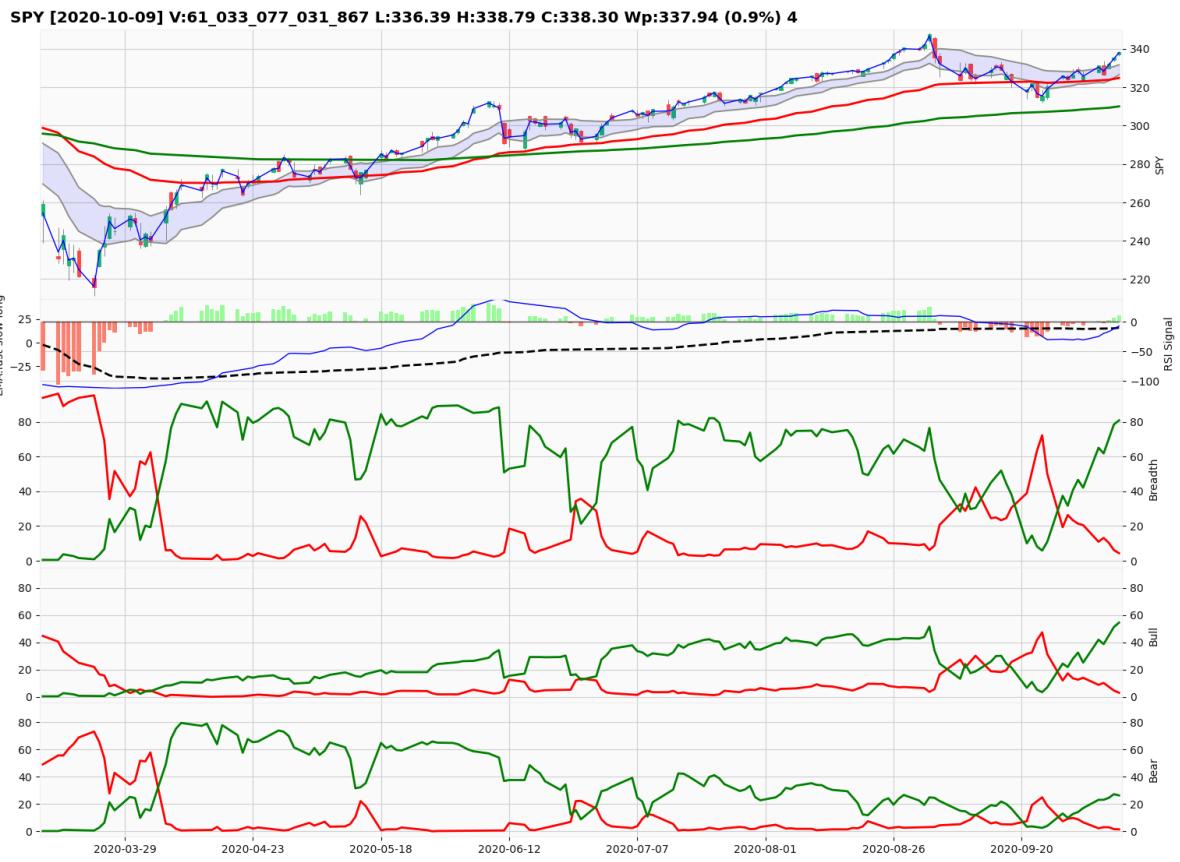


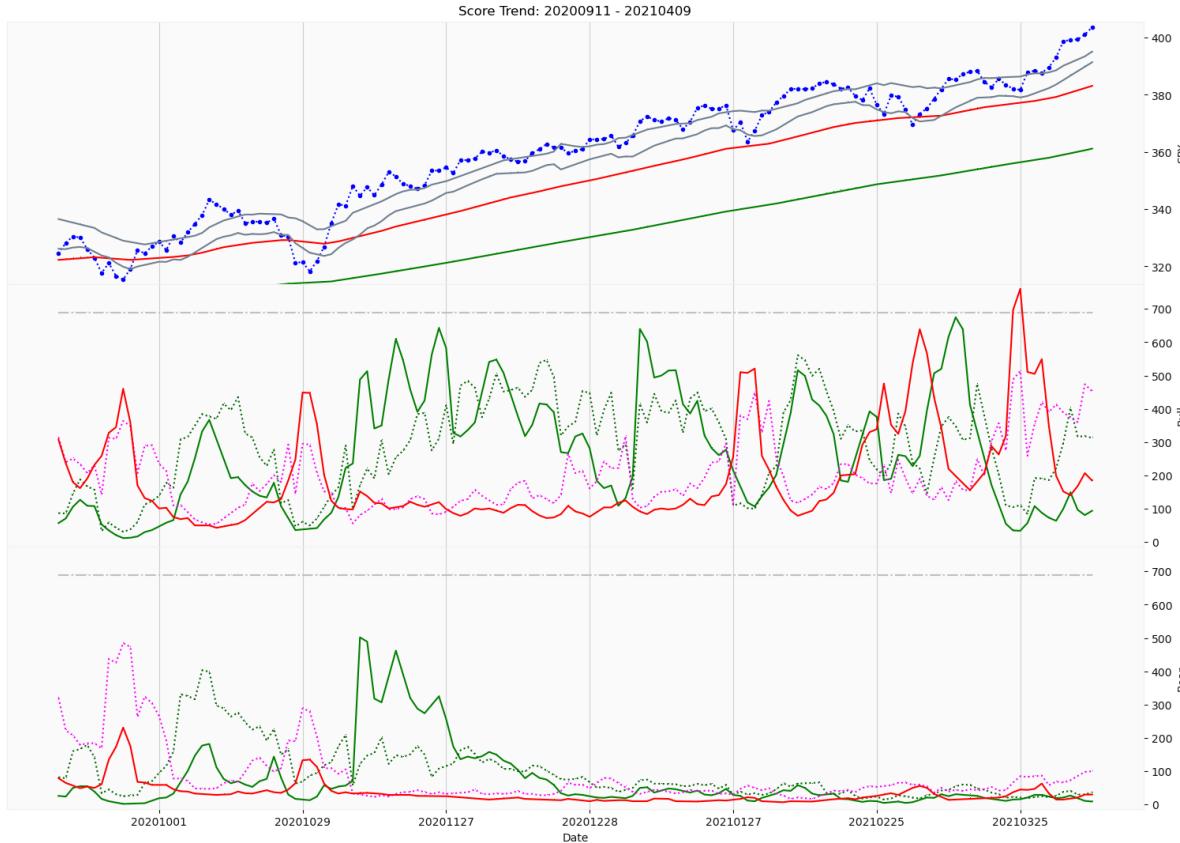
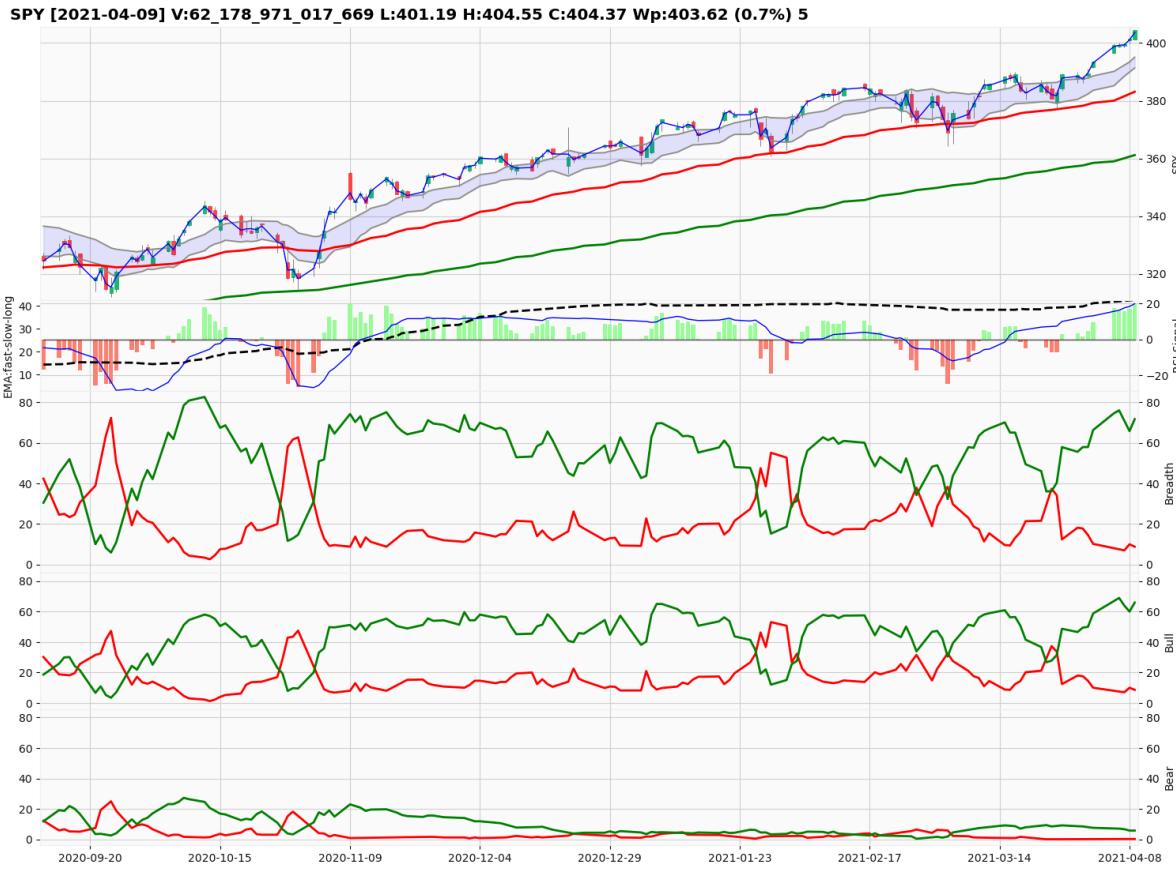


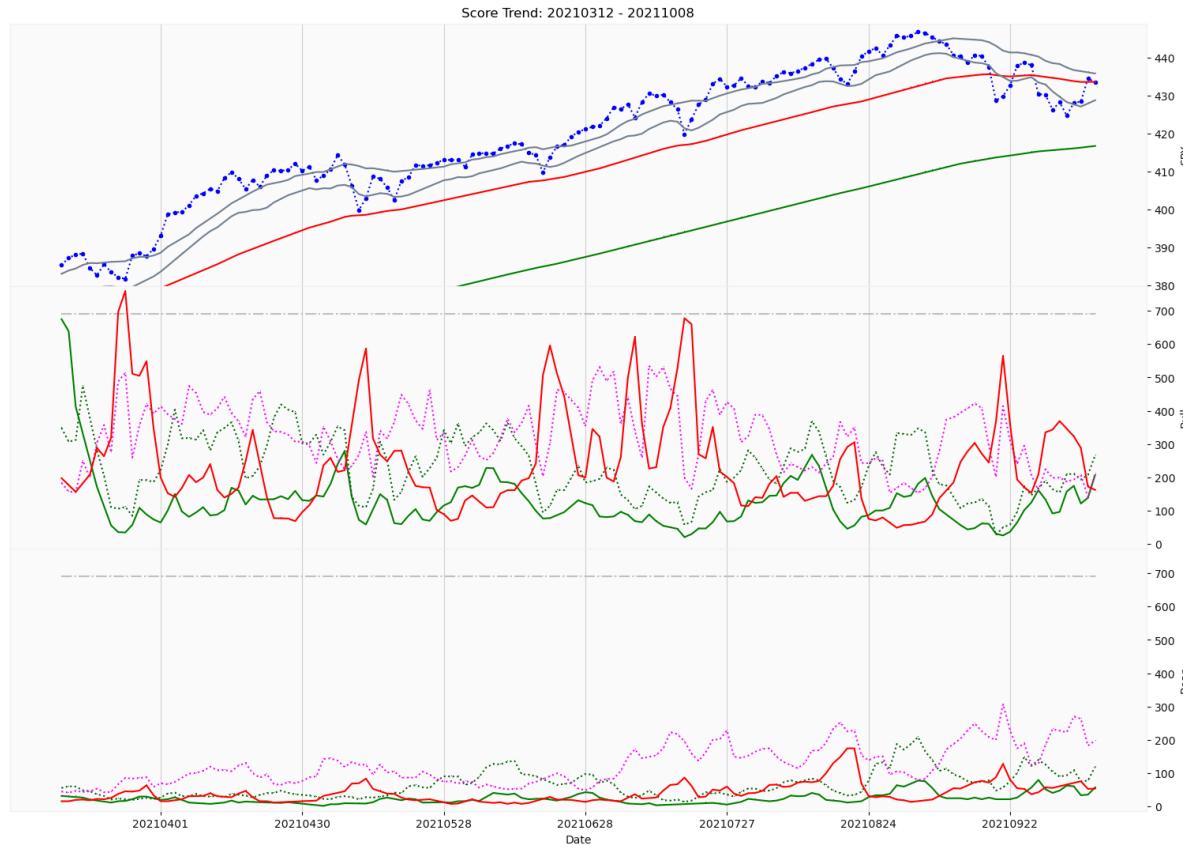
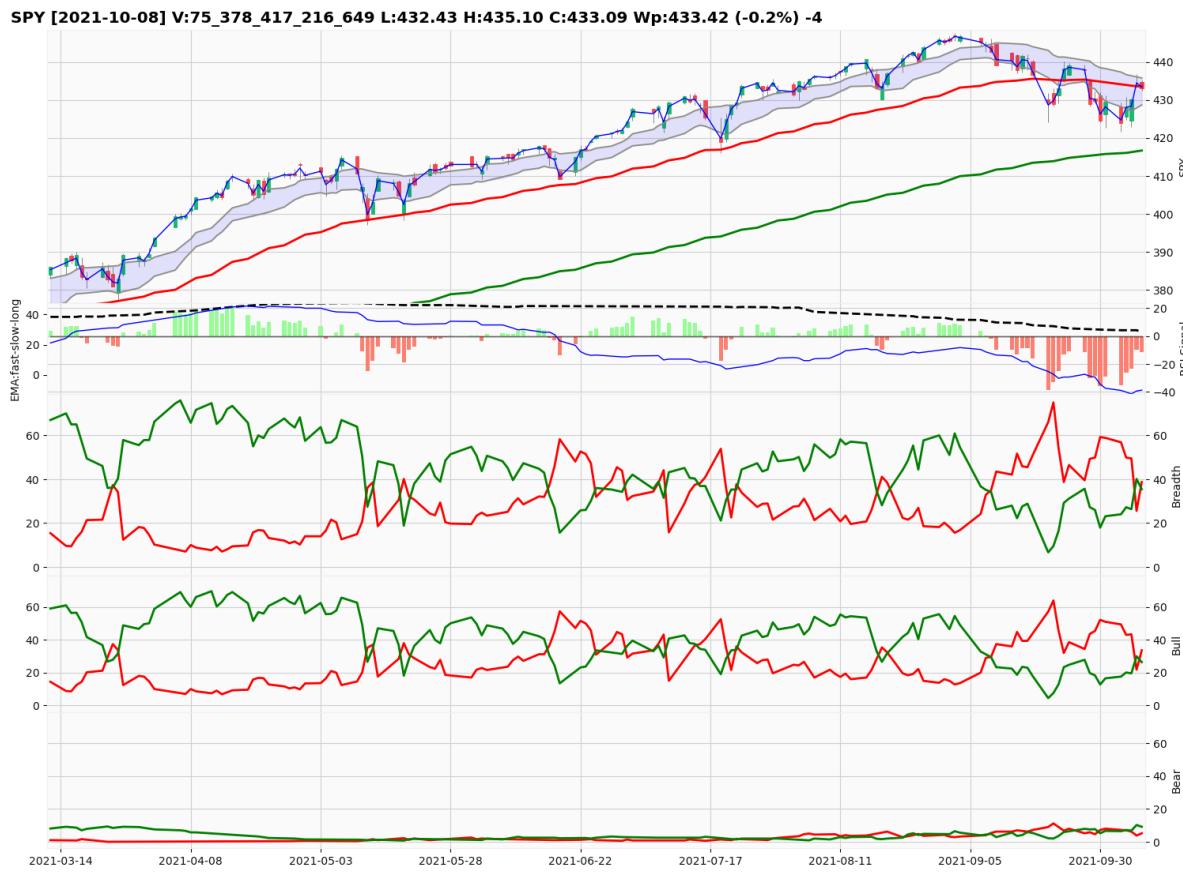


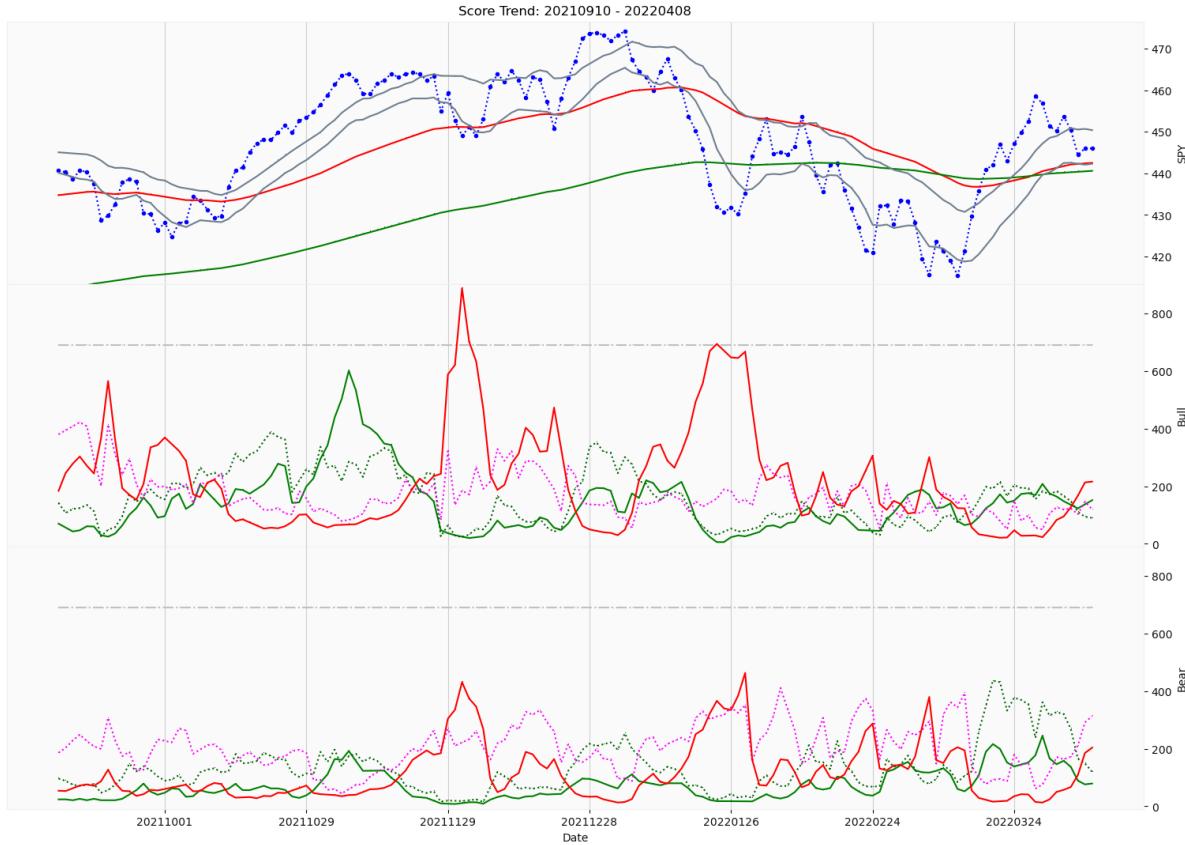
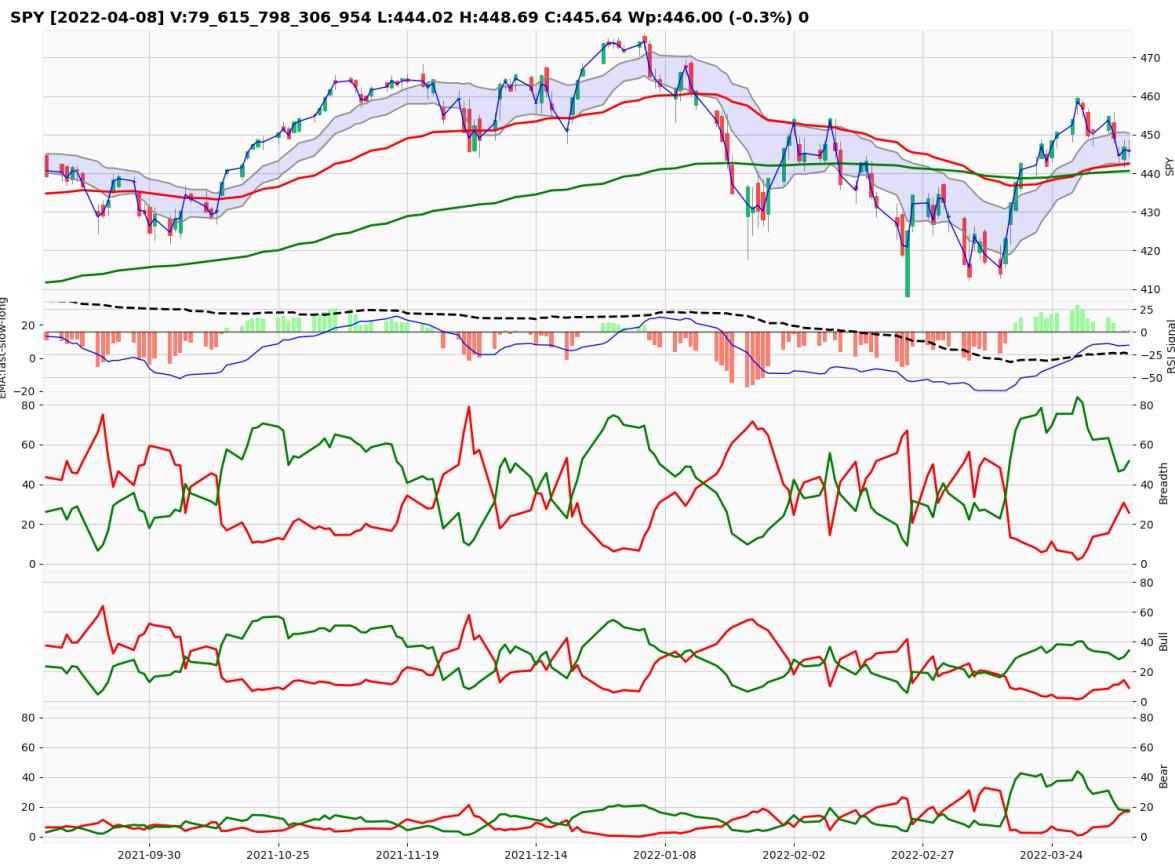


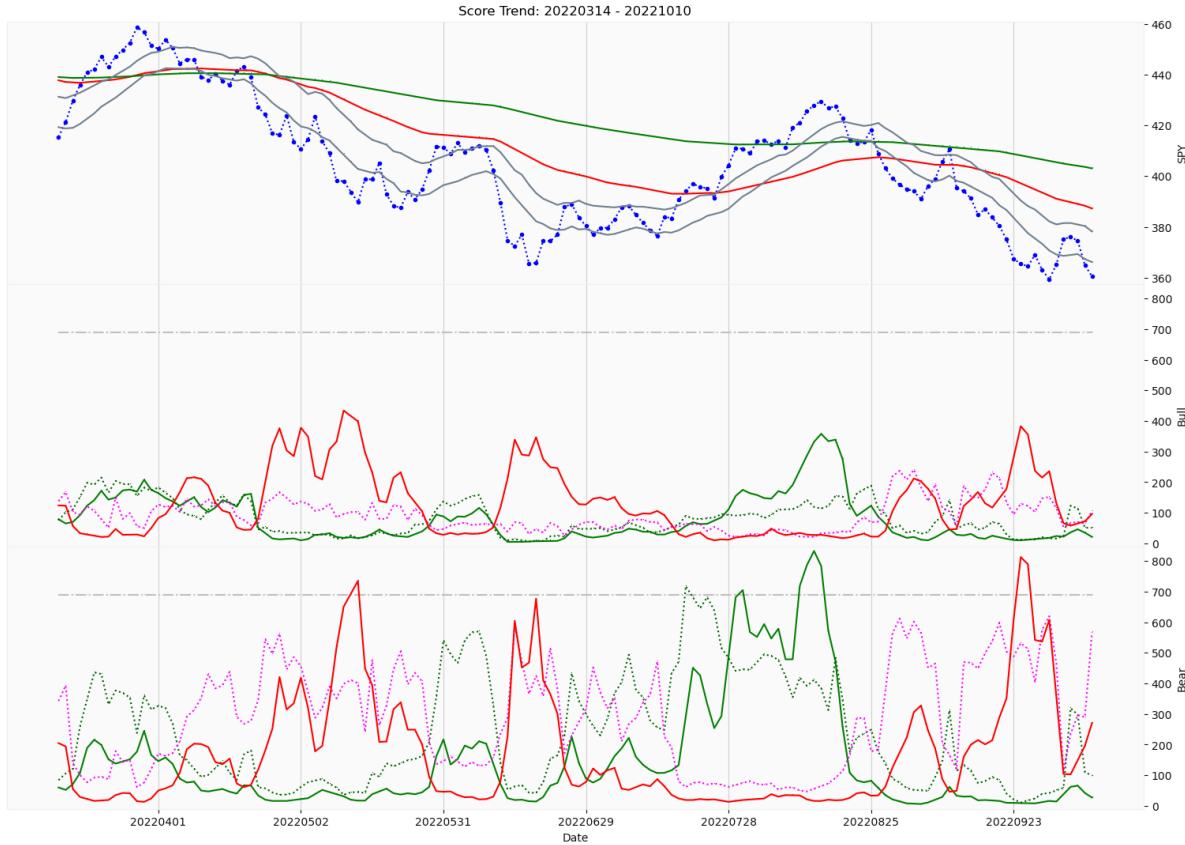
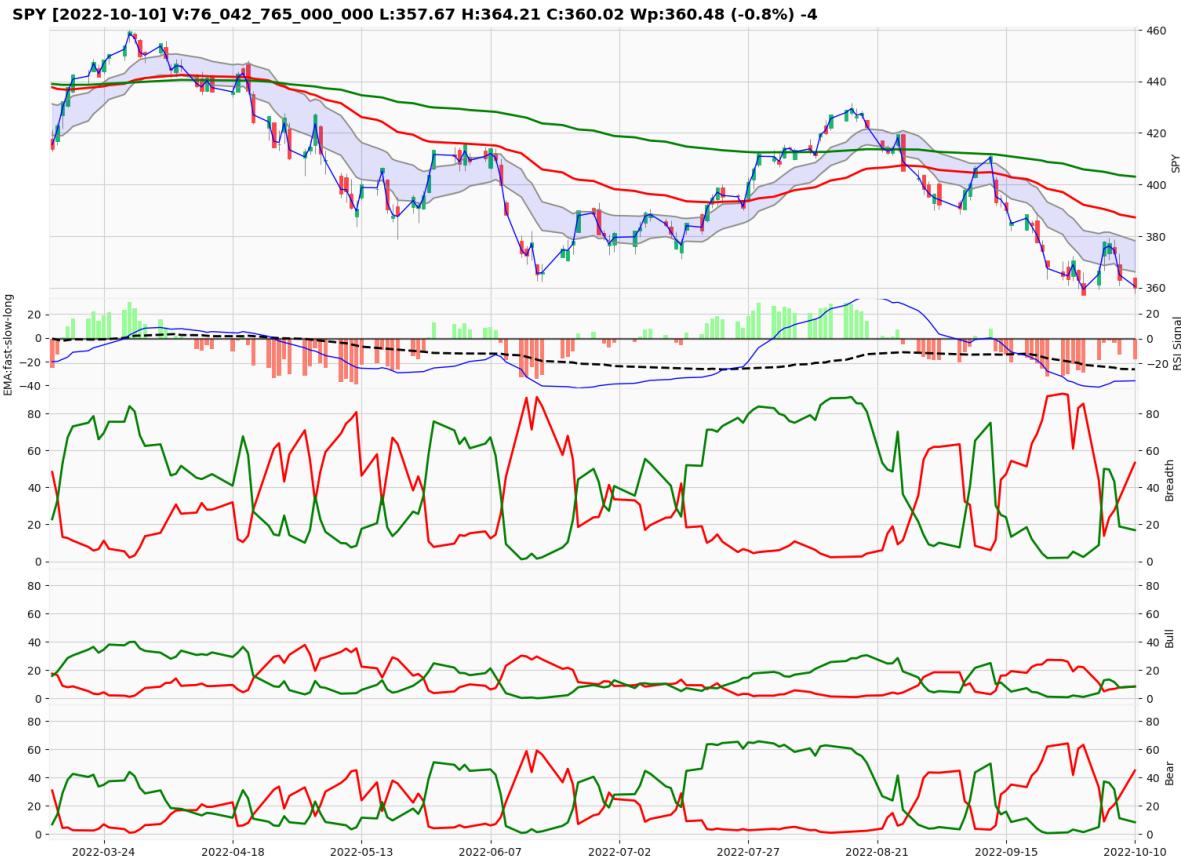


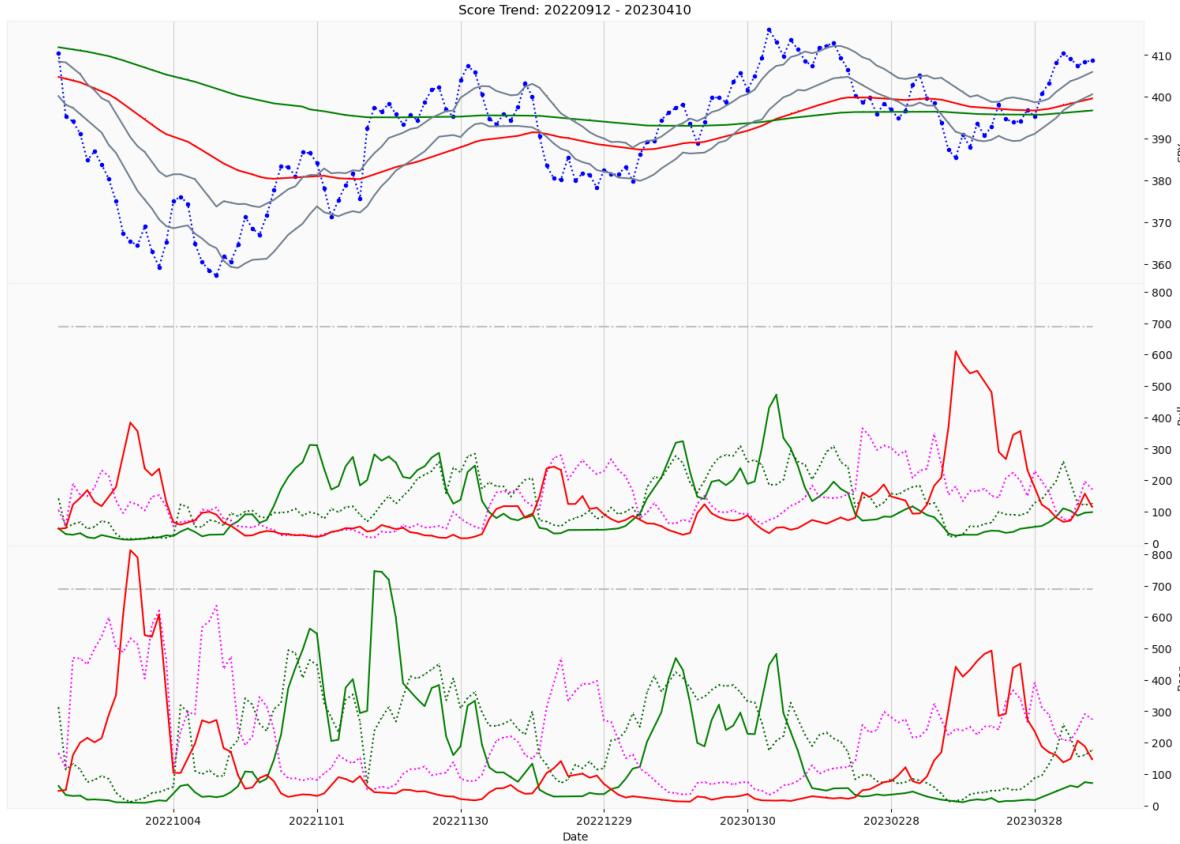
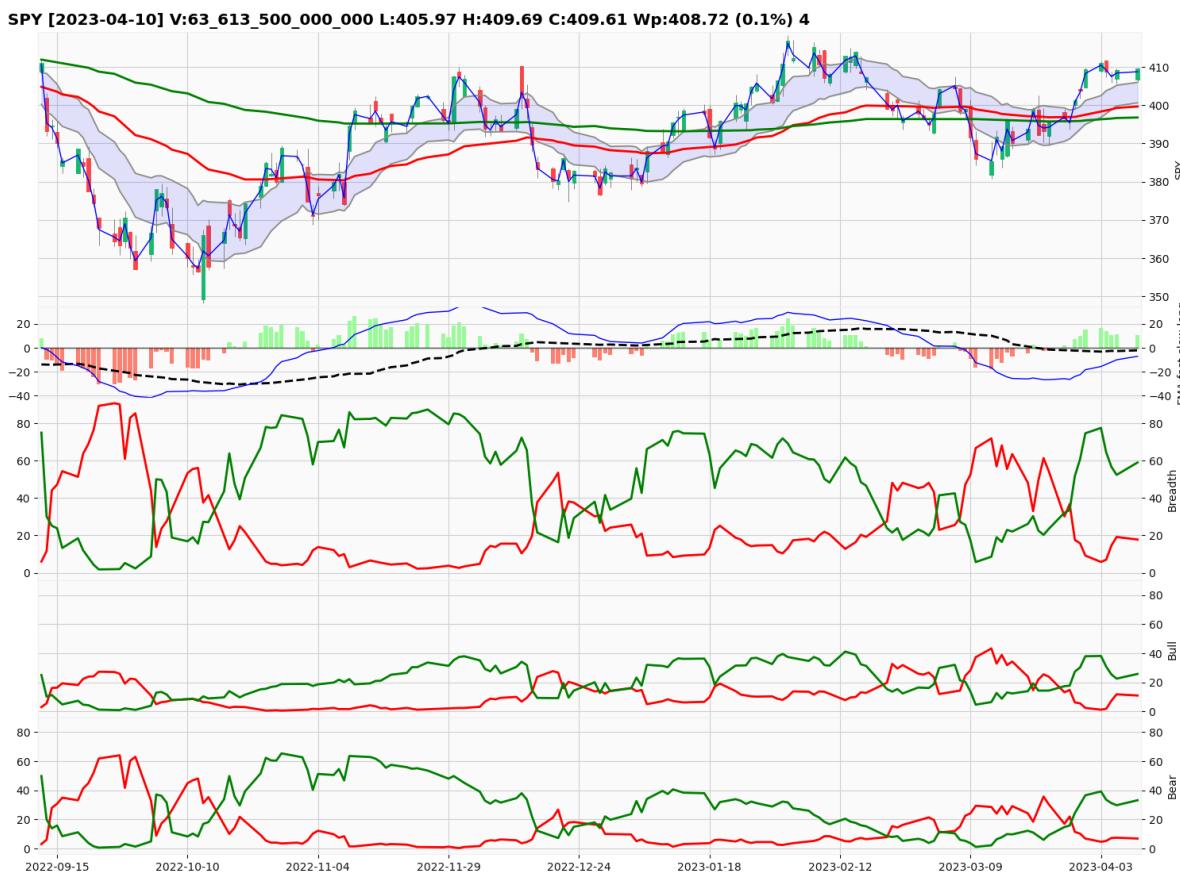


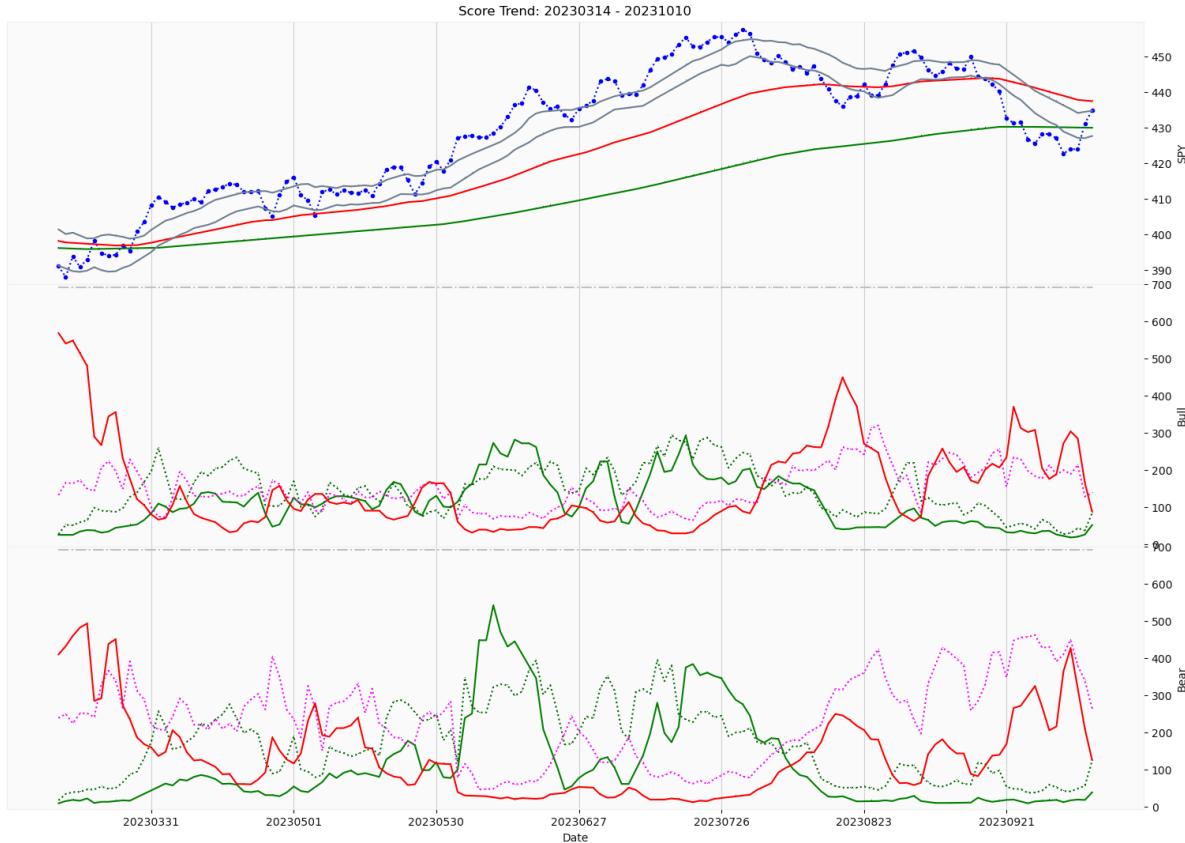
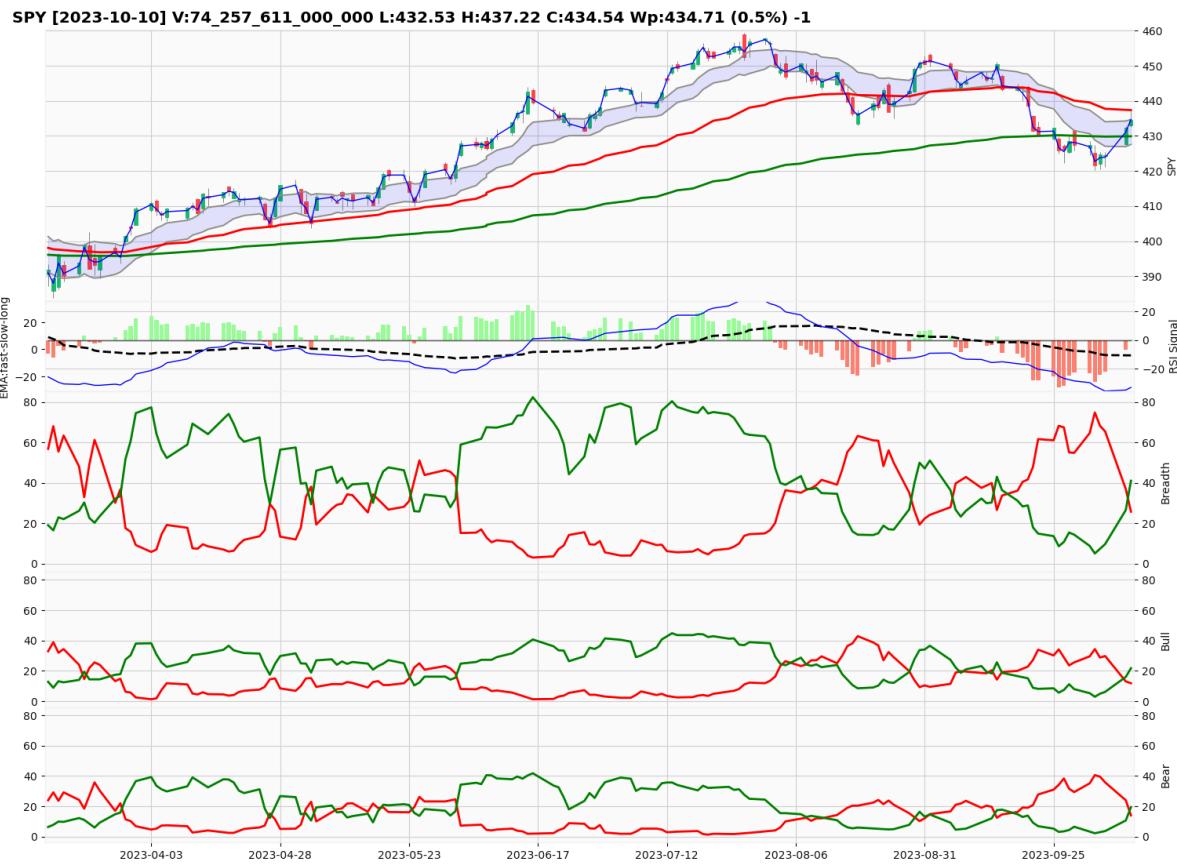












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[ 'images/20131010/Trend/SPY-210.png', 'images/20131010/Trend/RSI_Score_Trend-210-v3.png' ]
```

In []: