

Run the cell below to create your tear sheet.

In [1]:

```
bt = get_backtest('5f9442c8a3928546af1f2b92')  
bt.create_full_tear_sheet()
```

100% Time: 0:00:05|#####
 #####|

Start date 2016-01-05

End date 2020-10-15

Total months 57

Backtest

Annual return	17.587%
Cumulative returns	116.992%
Annual volatility	17.158%
Sharpe ratio	1.03
Calmar ratio	0.78
Stability	0.89
Max drawdown	-22.518%
Omega ratio	1.35
Sortino ratio	1.54
Skew	-0.34
Kurtosis	17.47
Tail ratio	1.42
Daily value at risk	-2.092%
Gross leverage	0.18
Daily turnover	50.963%
Alpha	0.19
Beta	0.00

Worst drawdown periods	Net drawdown in %	Peak date	Valley date	Recovery date	Duration
0	22.52	2019-08-12	2020-04-29	2020-07-27	251
1	13.70	2017-09-08	2018-03-01	2018-07-11	219
2	12.76	2016-12-09	2016-12-29	2017-08-30	189
3	9.42	2018-12-07	2018-12-14	2019-01-02	19
4	7.16	2019-01-14	2019-03-14	2019-06-21	115

Stress Events	mean	min	max
New Normal	0.07%	-11.00%	8.00%

Top 10 long positions of all time	max
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NGD-27323	102.33%
GG-22226	101.09%
AEM-154	101.07%
HMY-15814	100.83%
PVG-42366	100.52%
OR-47173	100.42%
AUY-25714	99.88%
GOLD-64	99.50%
HL-3585	99.34%
AGI-44156	96.66%

Top 10 short positions of all time	max
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HL-3585	-133.74%
NEM-5261	-109.57%
GSS-9738	-95.93%
ALO-42115	-84.13%
GOLD-23906	-80.27%
DRD-15796	-78.06%
GG-22226	-72.44%
SA-26203	-61.22%
GSV-38137	-52.89%
USAU-2344	-52.16%

Top 10 positions of all time	max
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HL-3585	133.74%
NEM-5261	109.57%
NGD-27323	102.33%
GG-22226	101.09%
AEM-154	101.07%
HMY-15814	100.83%
PVG-42366	100.52%
OR-47173	100.42%
AUY-25714	99.88%
GOLD-64	99.50%

```
/venvs/py35/lib/python3.5/site-packages/matplotlib/axes/_axes.py:6521: Mat
plotlibDeprecationWarning:
The 'normed' kwarg was deprecated in Matplotlib 2.1 and will be removed in
3.1. Use 'density' instead.
    alternative="'density'", removal="3.1")
/venvs/py35/lib/python3.5/site-packages/statsmodels/nonparametric/kdetool
s.py:20: VisibleDeprecationWarning: using a non-integer number instead of
an integer will result in an error in the future
    y = X[:m/2+1] + np.r_[0,X[m/2+1:],0]*1j
/venvs/py35/src/pyfolio/pyfolio/perf_attrib.py:564: UserWarning: Could not
determine risk exposures for some of this algorithm's positions. Returns f
rom the missing assets will not be properly accounted for in performance a
ttribution.
```

7 assets were missing factor loadings, including: AU-629, DRD-15796, GFI-9936, GOLD-23906, HL_PRB-9172..SBSW-44120. Ignoring for exposure calculati on and performance attribution. Ratio of assets missing: 0.146. Average al location of selected missing assets:

AU-629	-15384.750000
DRD-15796	18693.192500
GFI-9936	23381.828333
GOLD-23906	-18097.261250
HL_PRB-9172	6596.262301
SBSW-44120	34672.877333
dtype: float64.	

```
warnings.warn(missing_stocks_warning_msg)
/venvs/py35/src/pyfolio/pyfolio/perf_attrib.py:612: UserWarning: This algo
rithm has relatively high turnover of its positions. As a result, performa
nce attribution might not be fully accurate.
```

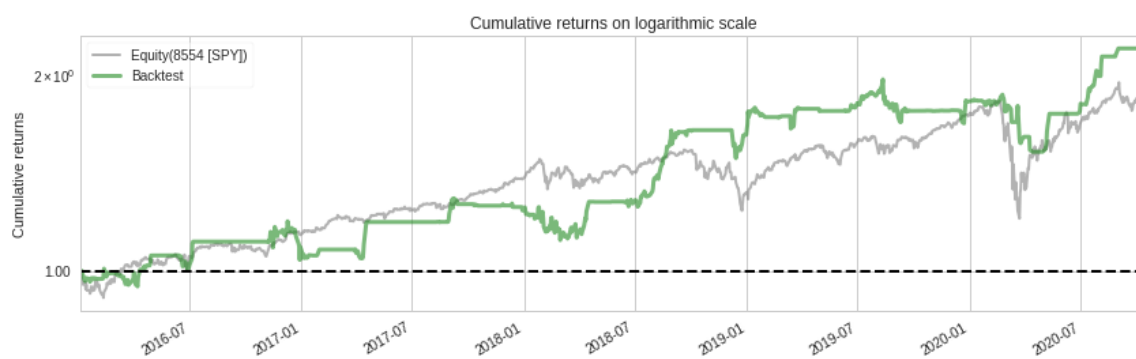
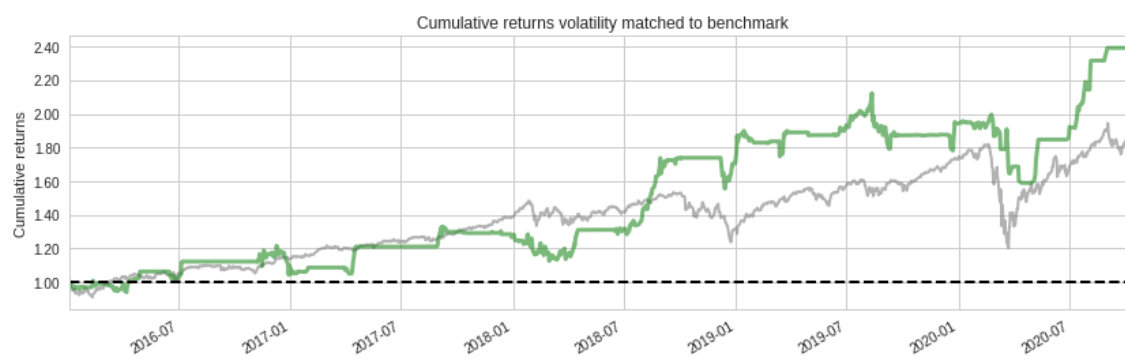
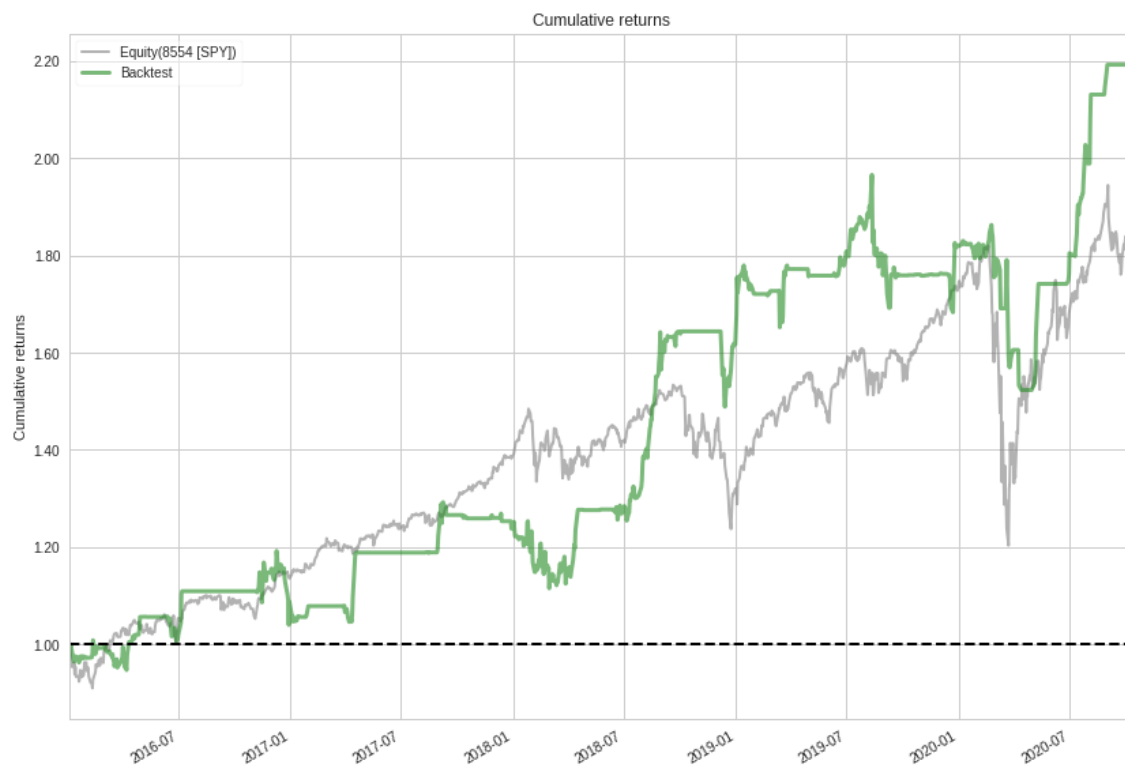
Performance attribution is calculated based on end-of-day holdings and doe s not account for intraday activity. Algorithms that derive a high percent age of returns from buying and selling within the same day may receive ina ccurate performance attribution.

```
warnings.warn(warning_msg)
```

Performance Relative to Common Risk Factors

Summary Statistics	
Annualized Specific Return	0.55%
Annualized Common Return	8.68%
Annualized Total Return	17.56%
Specific Sharpe Ratio	0.23

Exposures Summary	Average Risk Factor Exposure	Annualized Return	Cumulative Return
basic_materials	-0.02	4.17%	21.57%
consumer_cyclical	0.00	0.00%	0.00%
financial_services	0.00	0.00%	0.00%
real_estate	0.00	0.00%	0.00%
consumer_defensive	0.00	0.00%	0.00%
health_care	0.00	0.00%	0.00%
utilities	0.00	0.00%	0.00%
communication_services	0.00	0.00%	0.00%
energy	0.00	0.00%	0.00%
industrials	0.00	0.00%	0.00%
technology	0.00	0.00%	0.00%
momentum	-0.22	1.10%	5.36%
size	-0.10	2.20%	10.98%
value	0.12	1.28%	6.27%
short_term_reversal	-0.11	0.55%	2.64%
volatility	0.14	0.50%	2.43%



Rolling portfolio beta to Equity(8554 [SPY])

