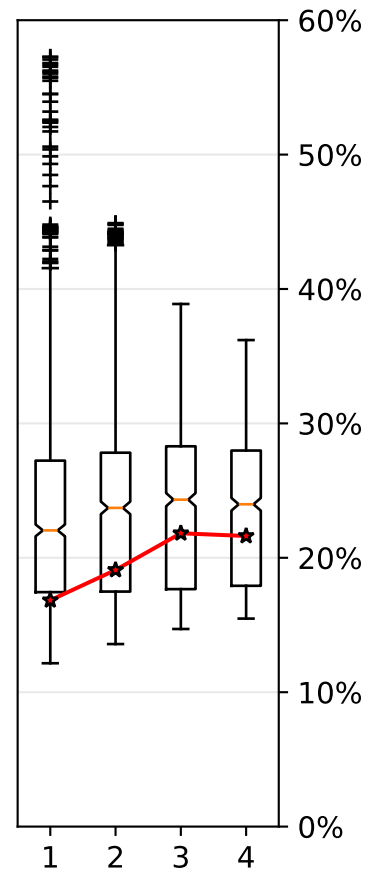
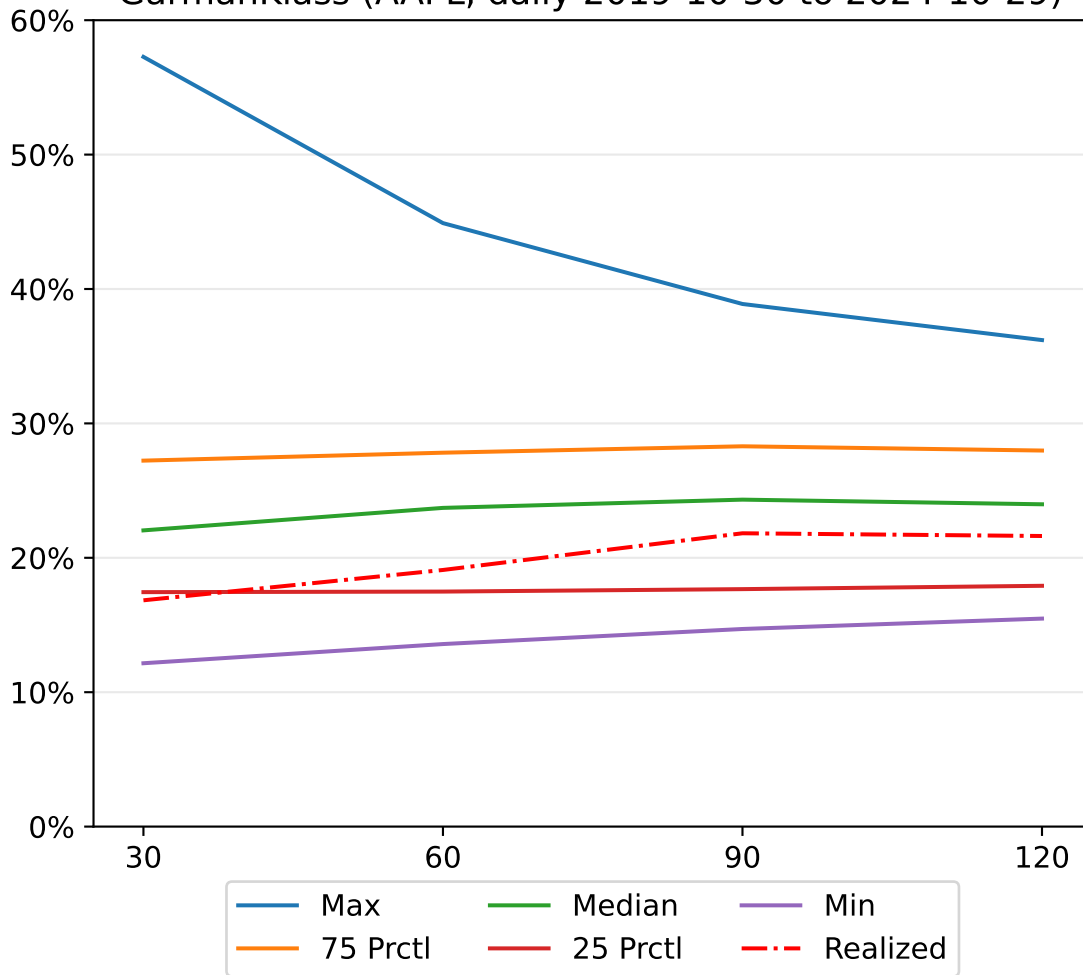
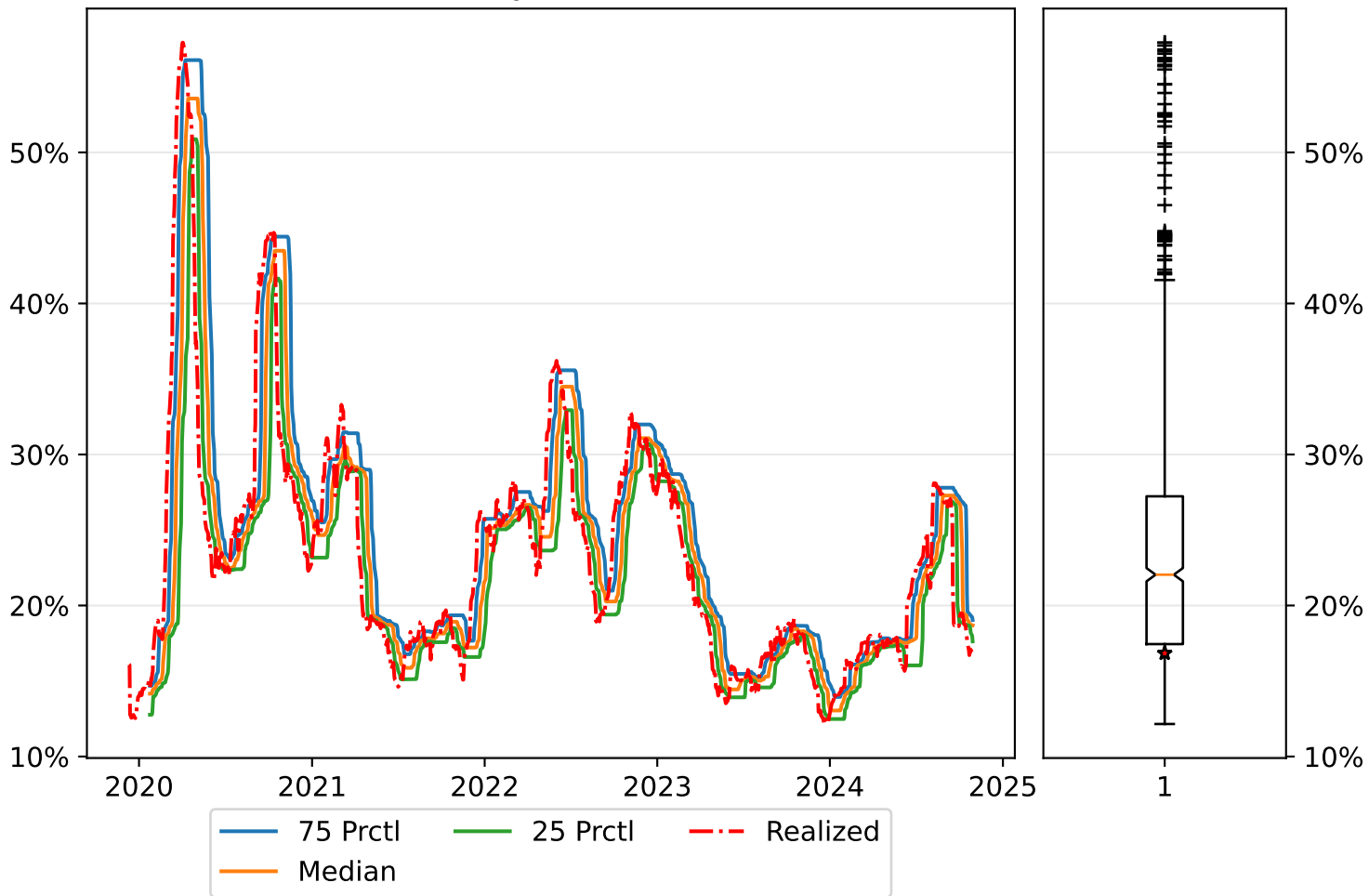


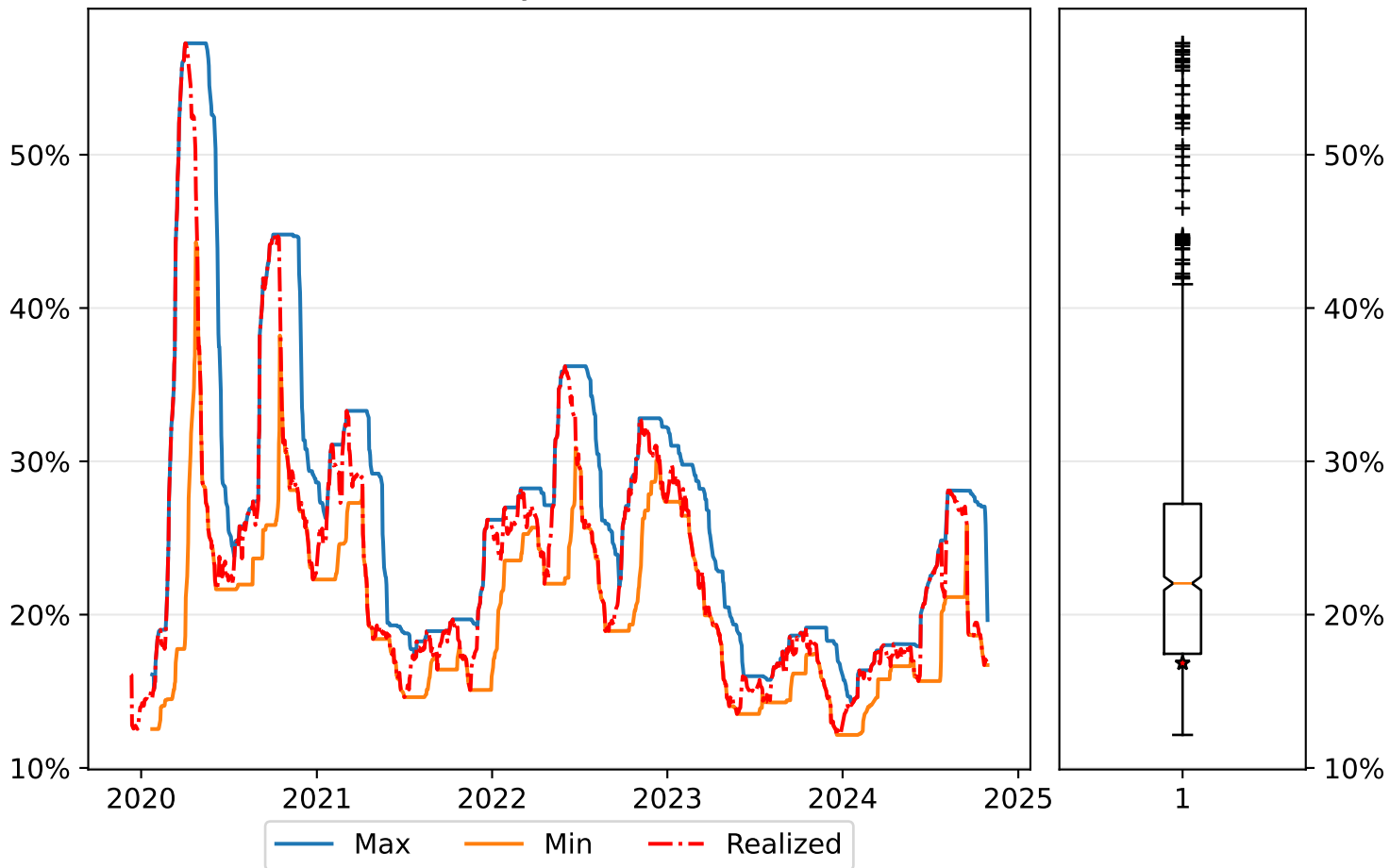
GarmanKlass (AAPL, daily 2019-10-30 to 2024-10-29)



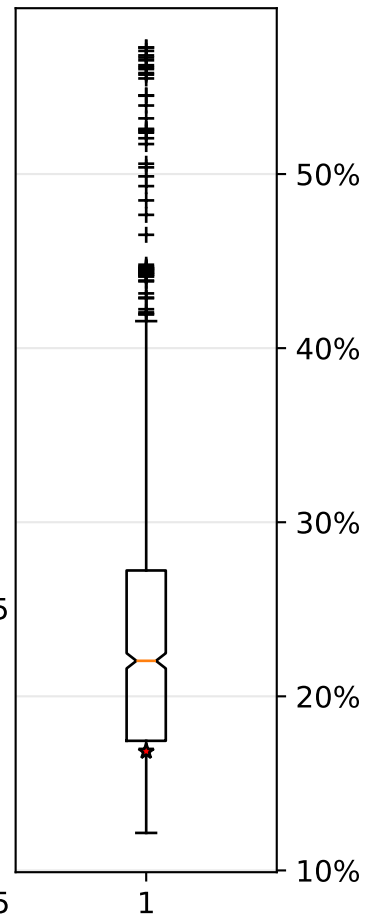
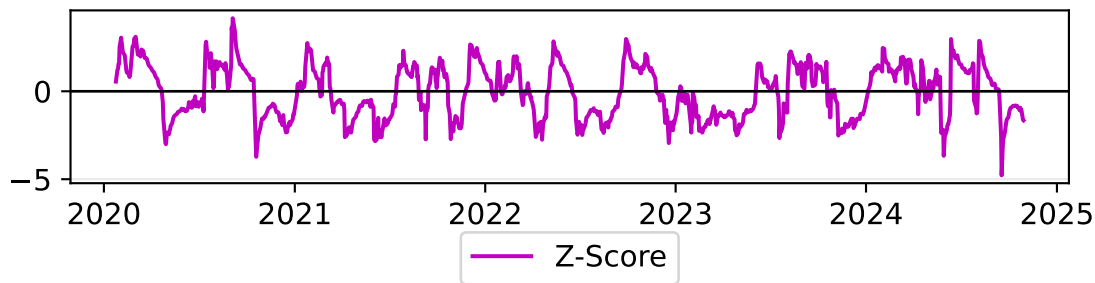
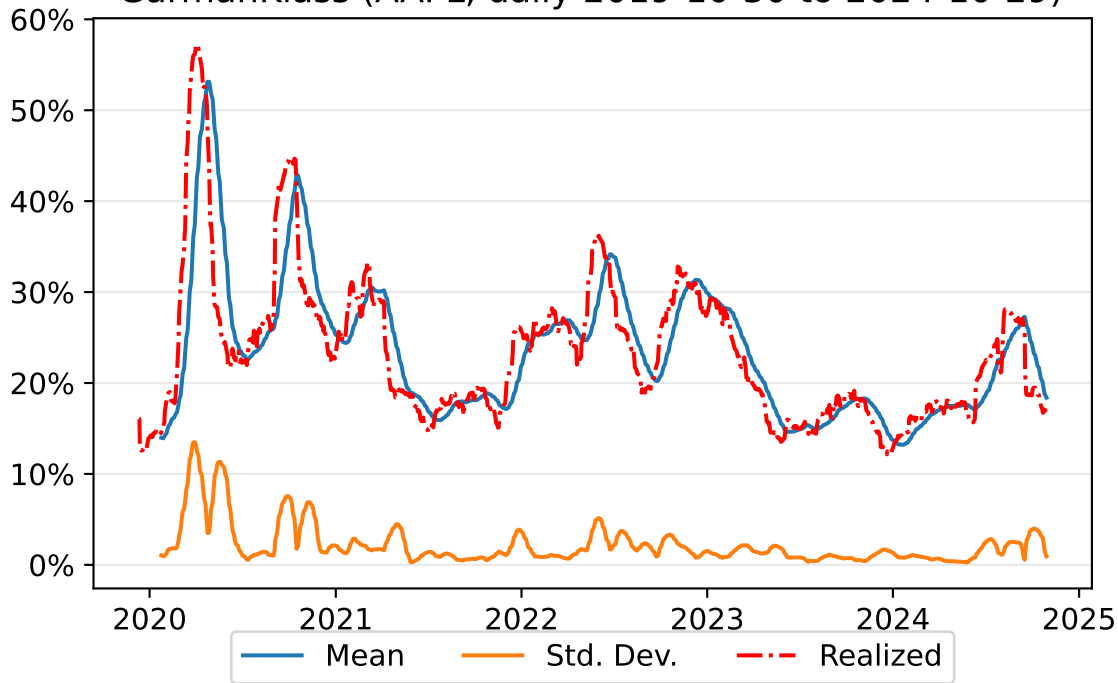
GarmanKlass (AAPL, daily 2019-10-30 to 2024-10-29)



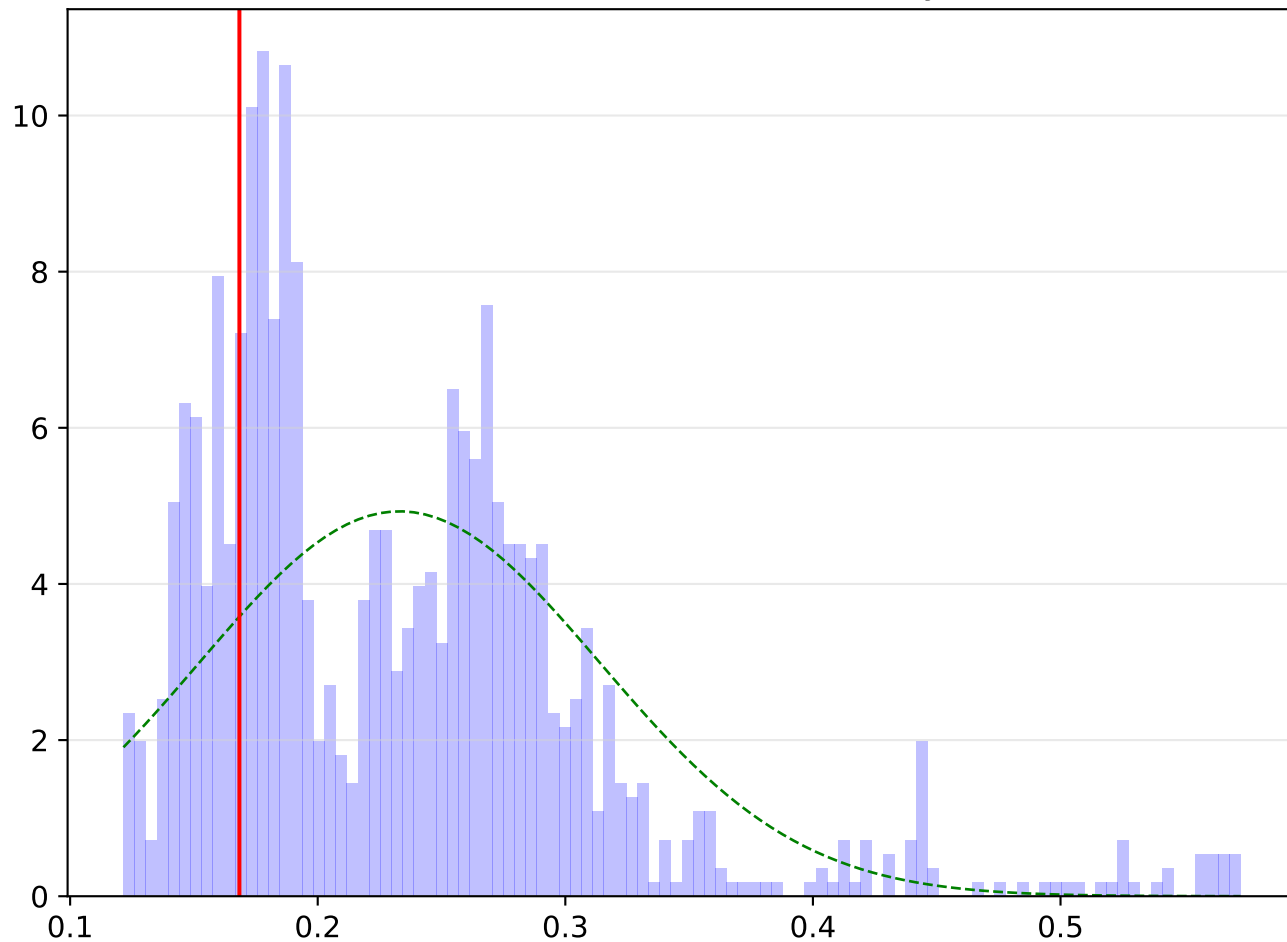
GarmanKlass (AAPL, daily 2019-10-30 to 2024-10-29)



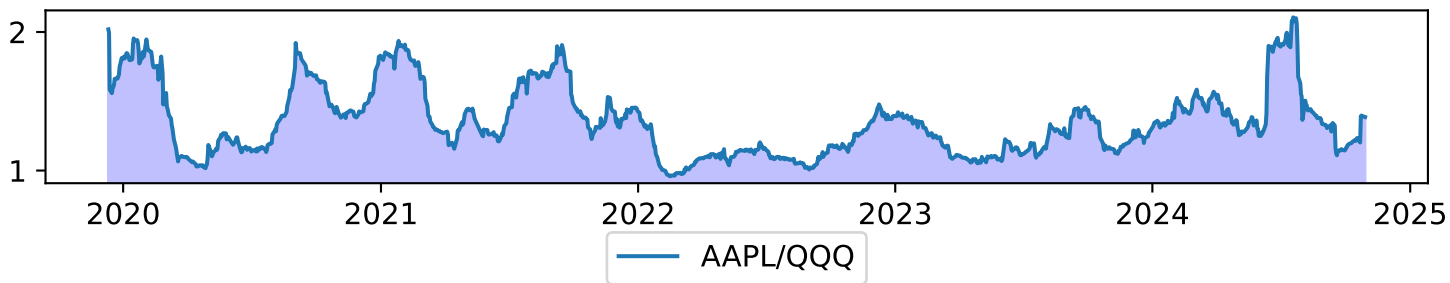
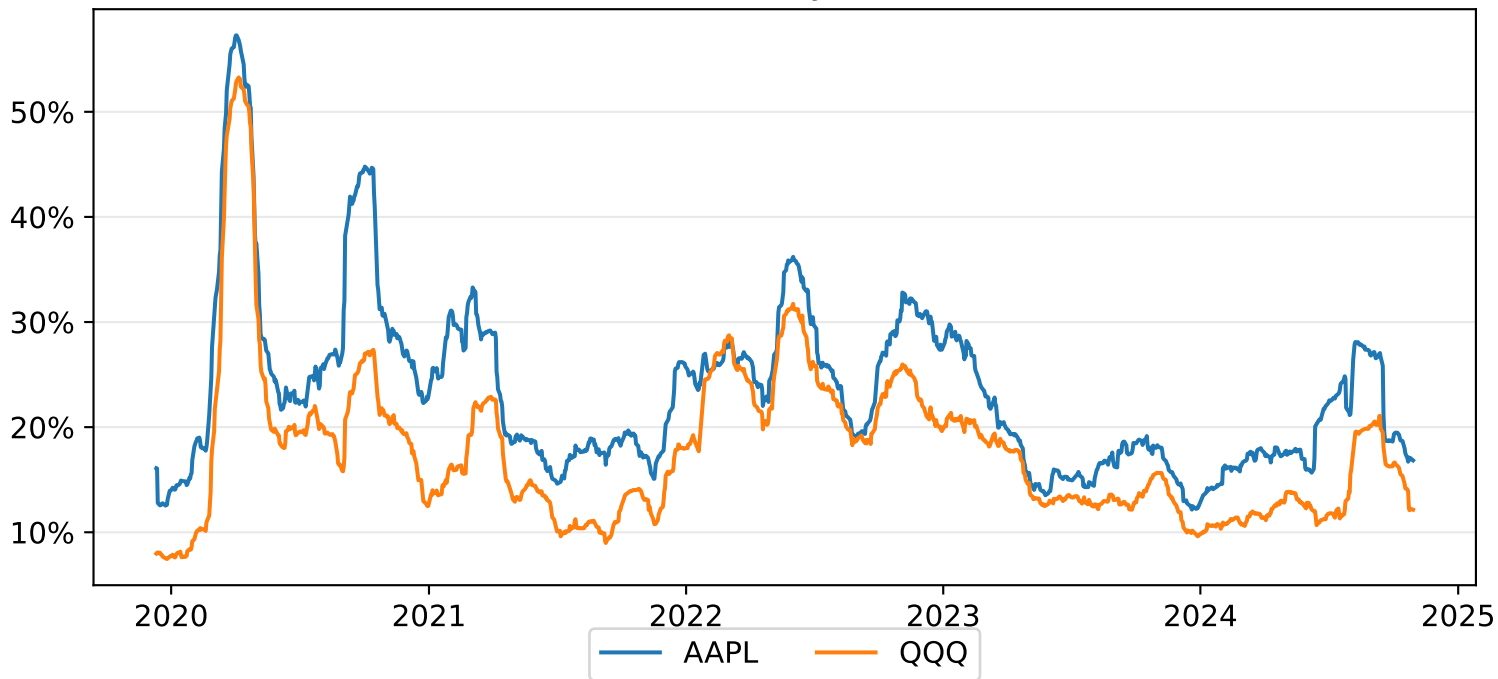
GarmanKlass (AAPL, daily 2019-10-30 to 2024-10-29)



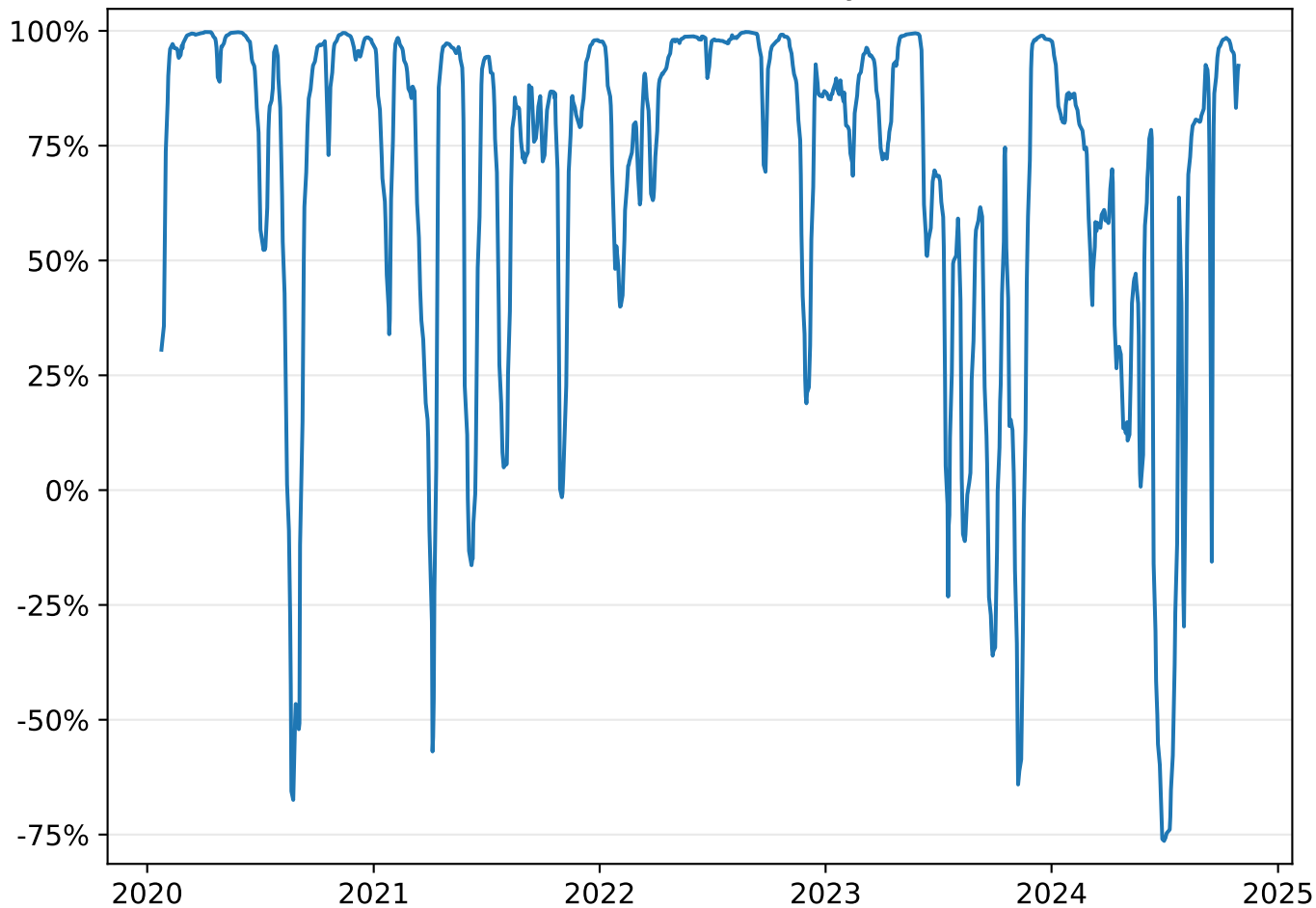
Distribution of GarmanKlass estimator values (AAPL, daily 2019-10-30 to 2024-10-29)



GarmanKlass (AAPL v. QQQ, daily 2019-10-30 to 2024-10-29)



GarmanKlass (Correlation of AAPL v. QQQ, daily 2019-10-30 to 2024-10-29)



# OLS Regression Results

```

=====
Dep. Variable:          y      R-squared (uncentered):          0.970
Model:                  OLS    Adj. R-squared (uncentered):          0.970
Method:                  Least Squares    F-statistic:          4.024e+04
Date:                    Tue, 29 Oct 2024    Prob (F-statistic):          0.00
Time:                    23:05:32    Log-Likelihood:          2139.0
No. Observations:        1229    AIC:          -4276.
Df Residuals:            1228    BIC:          -4271.
Df Model:                 1
Covariance Type:          nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
x1	1.2526	0.006	200.592	0.000	1.240	1.265

```

=====
Omnibus:                12.688    Durbin-Watson:          0.014
Prob(Omnibus):           0.002    Jarque-Bera (JB):          16.582
Skew:                    0.126    Prob(JB):          0.000251
Kurtosis:                3.510    Cond. No.          1.00
=====

```

## Notes:

- [1]  $R^2$  is computed without centering (uncentered) since the model does not contain a constant.
- [2] Standard Errors assume that the covariance matrix of the errors is correctly specified.