SUN ZU Lab

Weekly Insight
May 2021

Timezone: UTC
Period: 2021-05-03 ~ 2021-05-09

About SUN ZU Lab

SUN ZU Lab is a leading independent provider of liquidity analysis for investors already active or crypto-curious. We provide quantitative research on the liquidity of all digital assets to help investors improve their execution strategies and source the highest level of liquidity at the lowest cost.

Our product line includes research reports, software tools, and bespoke developments to fulfill the needs of the most demanding digital investor.

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Prices

Turnovers

Spreads

Fragmentation

Data provided by KAIKO

Prices

Price BTC-USD (1)

1 point = 5-min

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Volume at Price

KRAKEN BITSTAMP BITFINEX COINBASE

Price ETH-USD (1)

1 point = 5-min
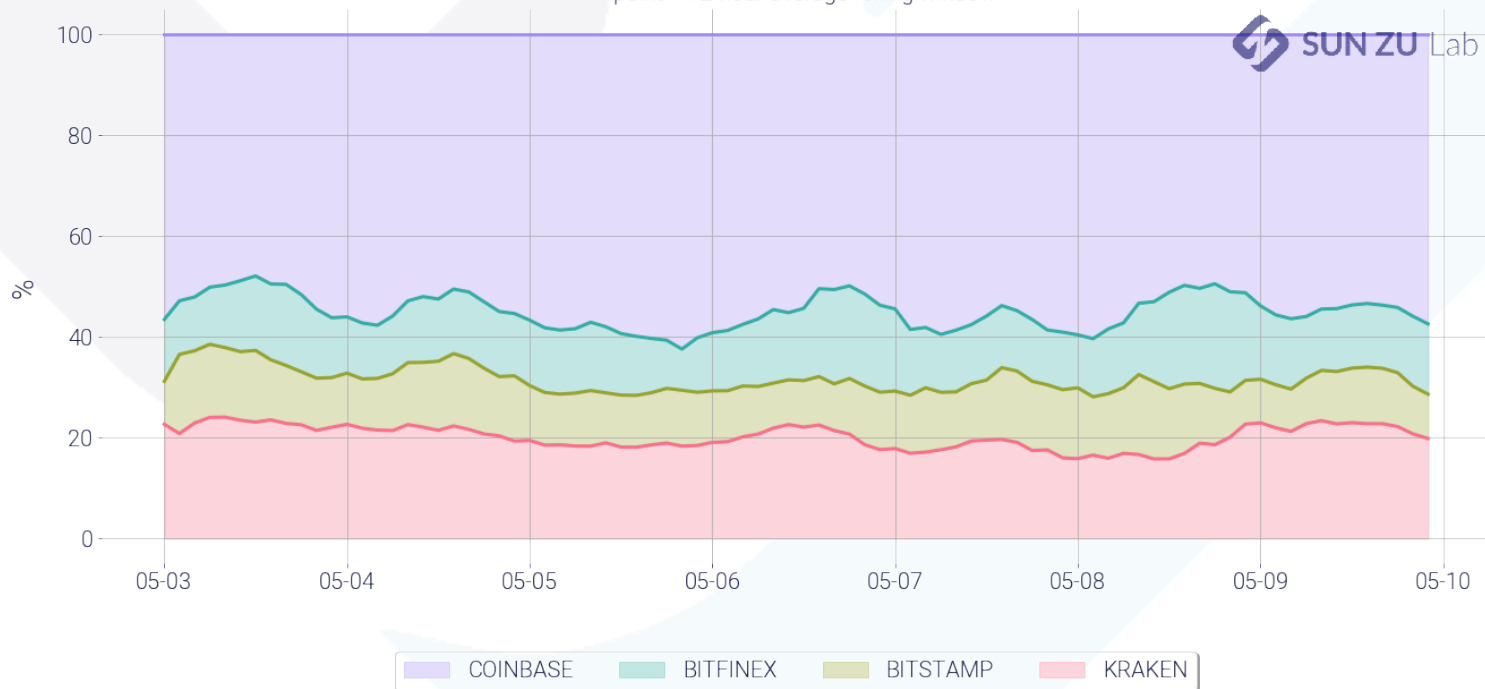
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Volume at Price

KRAKEN BITSTAMP BITFINEX COINBASE

Turnovers

Turnover Repartition by Exchange BTC (2)

1 point = 12-hour average rolling window

Legend: COINBASE | BITFINEX | BITSTAMP | KRAKEN
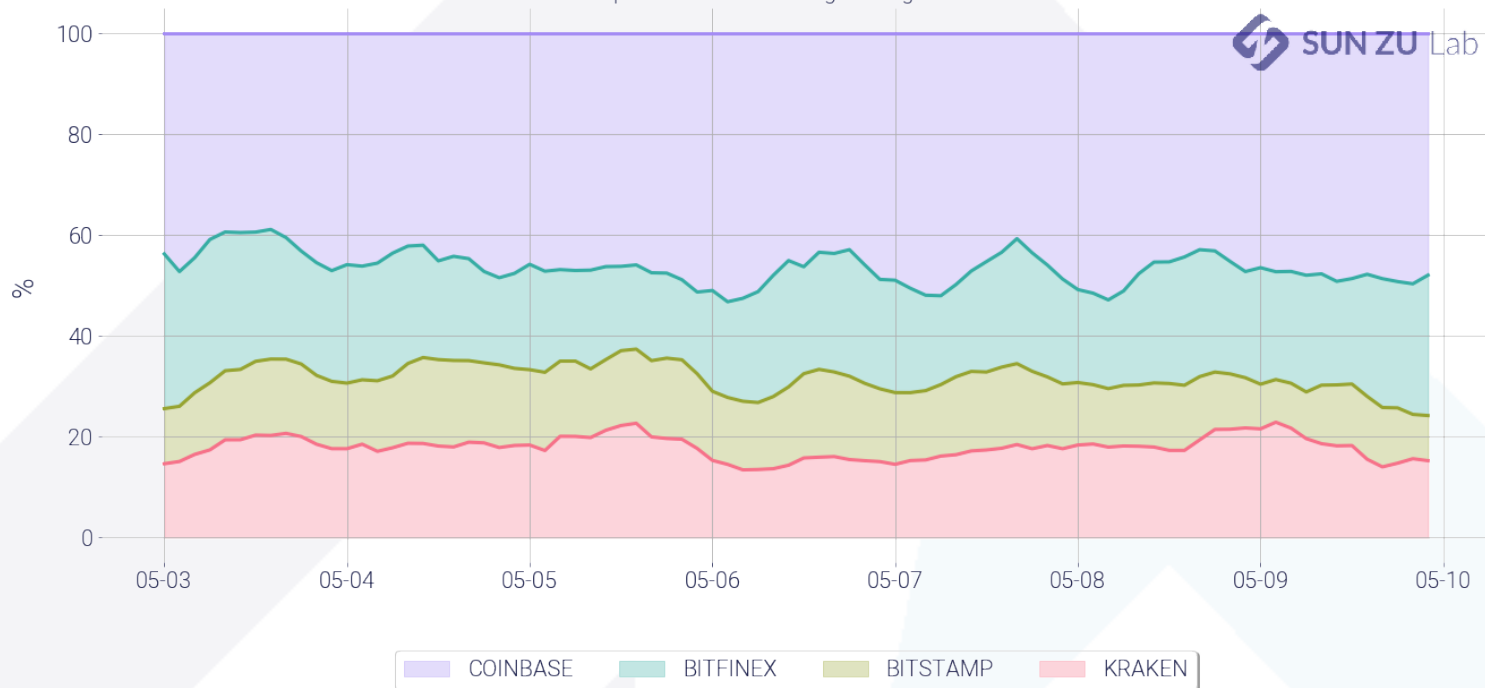
Turnover Repartition by Exchange ETH (2)

1 point = 12-hour average rolling window

Legend: COINBASE | BITFINEX | BITSTAMP | KRAKEN

Turnover by Unit of Quotation BTC (3)

1 bin = 1-day

| | KRAKEN | BITSTAMP | BITFINEX | COINBASE |

Turnover by Unit of Quotation ETH (3)

1 bin = 1-day

| | KRAKEN | BITSTAMP | BITFINEX | COINBASE |
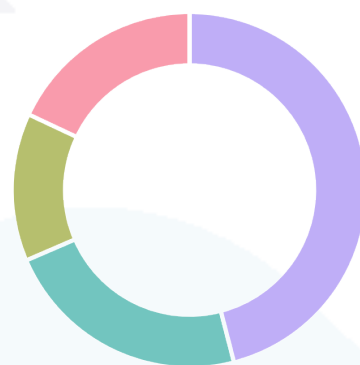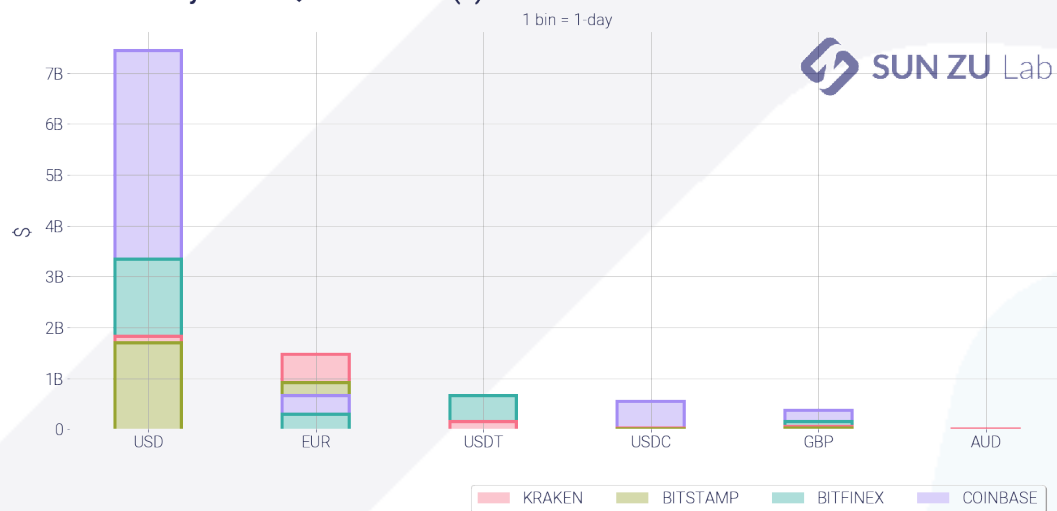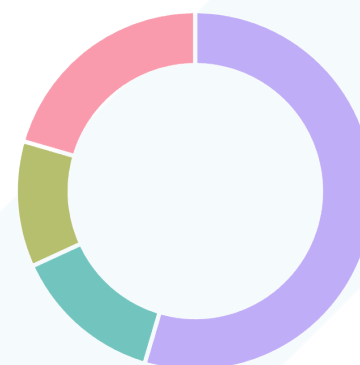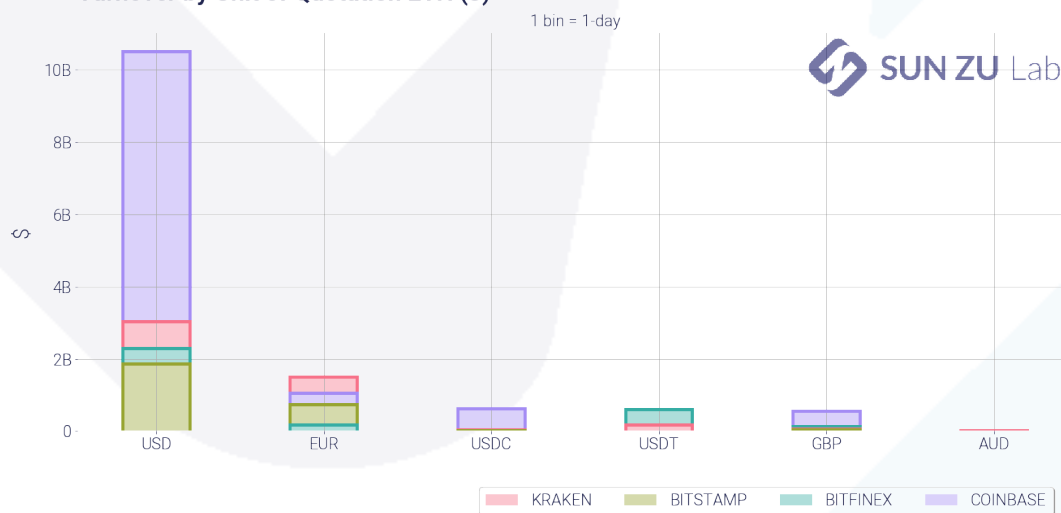
Spreads

Bid Ask Spread BTC-USD (4)

1 point = 2-hour average spread

| BITSTAMP | BITFINEX | COINBASE | KRAKEN |

Bid Ask Spread ETH-USD (4)

1 point = 2-hour average spread

| BITSTAMP | BITFINEX | COINBASE | KRAKEN |
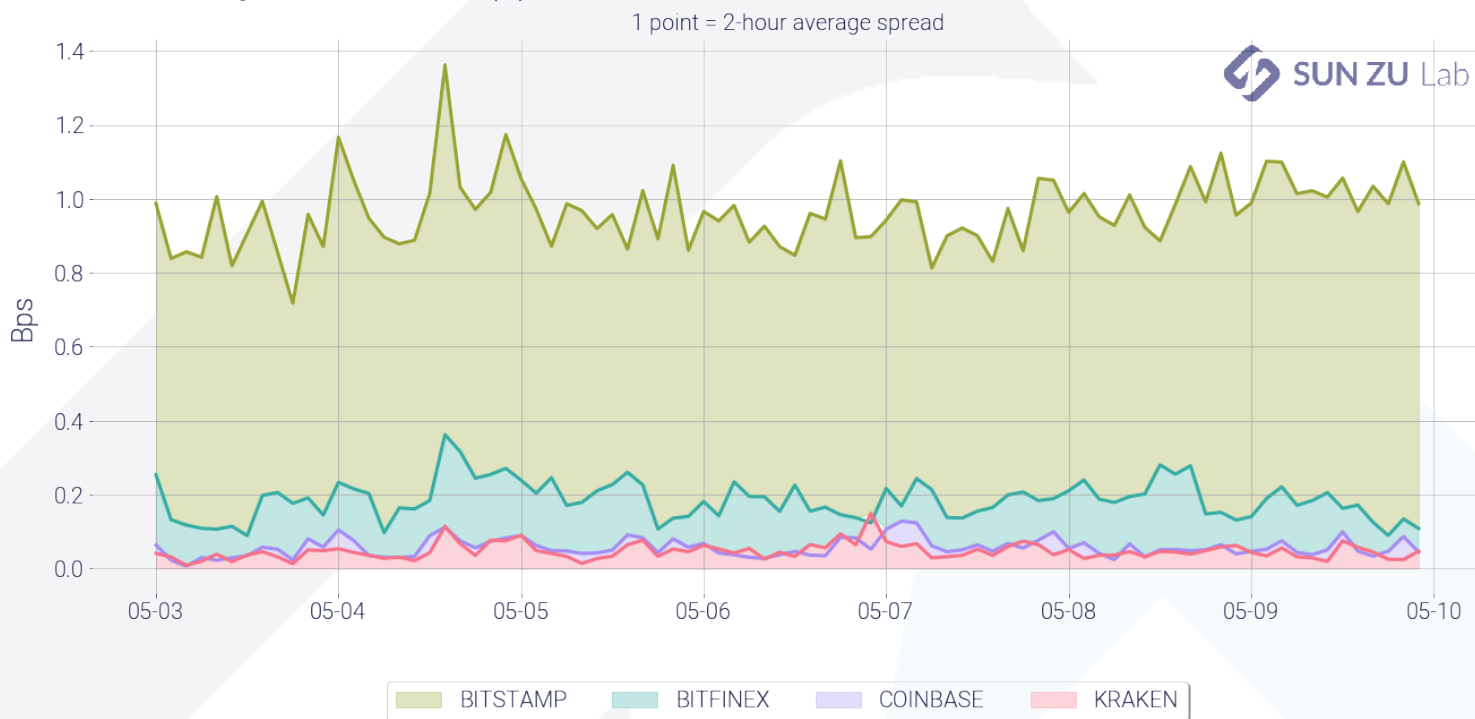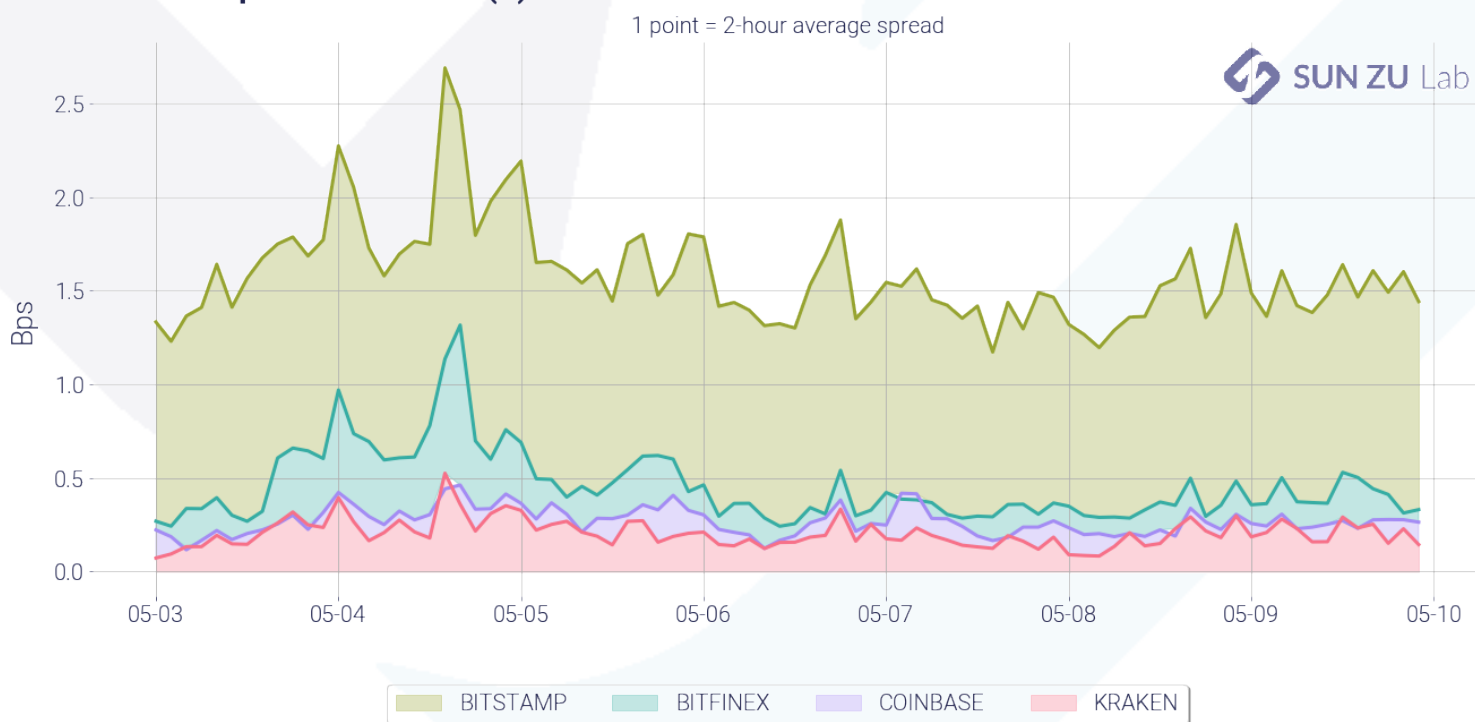
Fragmentation
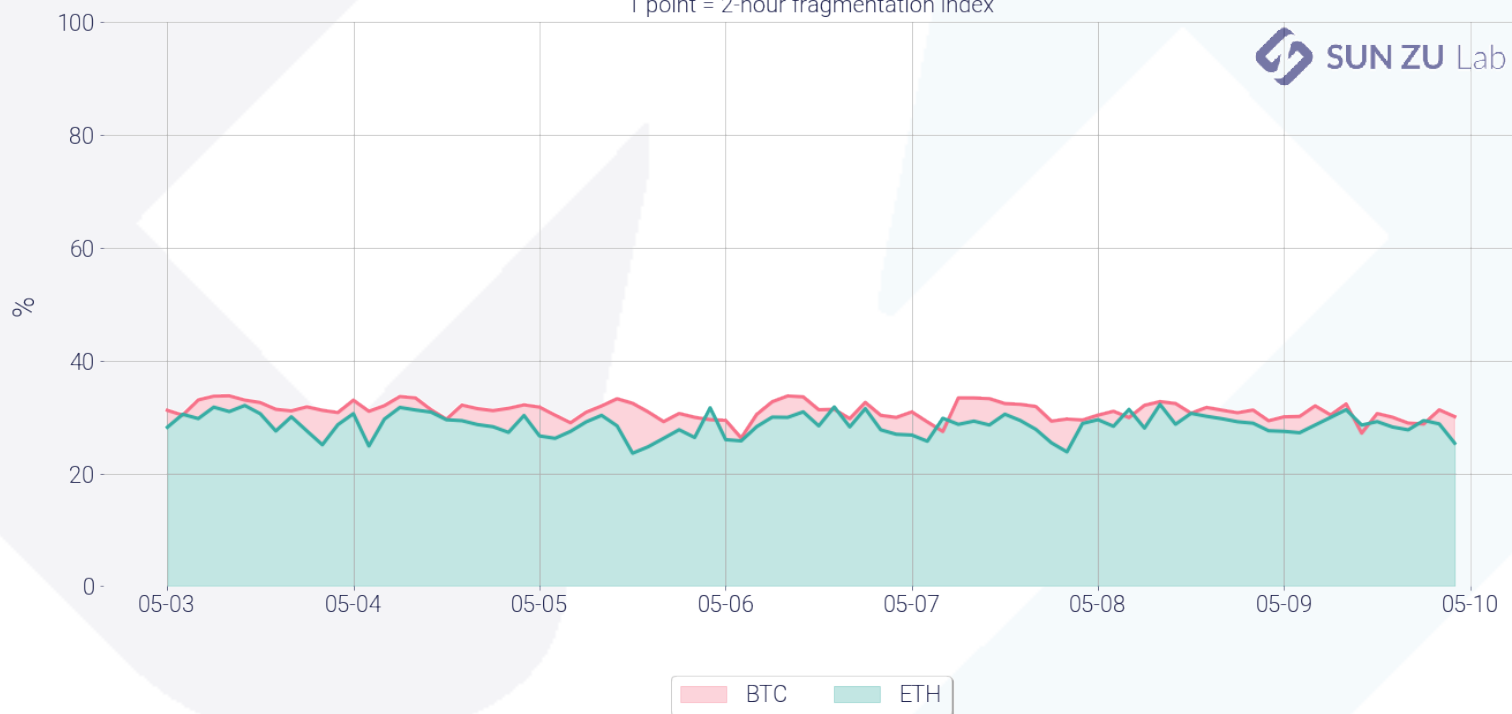
Fragmentation Efficiency Index (5)

Price & Volume at Price (1)

This graph presents a 5' time series of the instrument price on each of the selected venues.
Each point is a disc, the diameter of which is proportional to the volume at the last traded price.
The chart will highlight exchanges where average trade size is the largest.
The right part of the graph shows the volume at each price level, each bar presents the total volume traded over the entire period.
NB: bars are cumulative, that is each bar is stacked on top of the others.

Turnover Repartition by Exchange (2)

This chart presents the repartition of turnover (volume*price) across different venues.
The data is charted on a 12-hour rolling window to improve readibility.

Turnover by Unit of Quotation (3)

This chart shows total turnover by unit of quotation (fiat and digital), across different venues.
The pie chart on the right illustrates the aggregate partition across venues.

Bid Ask Spread (4)

This chart presents the 2-hour average bid-ask spread on each venue.

Fragmentation Efficiency Index (5)

This chart presents the 2-hour fragmentation efficiency index (FEI) as discussed in
'Market Microstructure in Practice' (LeHalle & Laruelle, World Scientific 2013).
It is calculated as: $- SUM(q_i * ln(q_i)) / \log N$, where N = number of venues,
q_i = market share of the i-th venue (such that $SUM(q_i) = 1$).
The FEI is an indicator that varies between 0 and 1: it is close to 0 if liquidity is fragmented and highly concentrated on a small number of venues, and close to 1 if on the contrary it is spread almost evenly across all venues.