

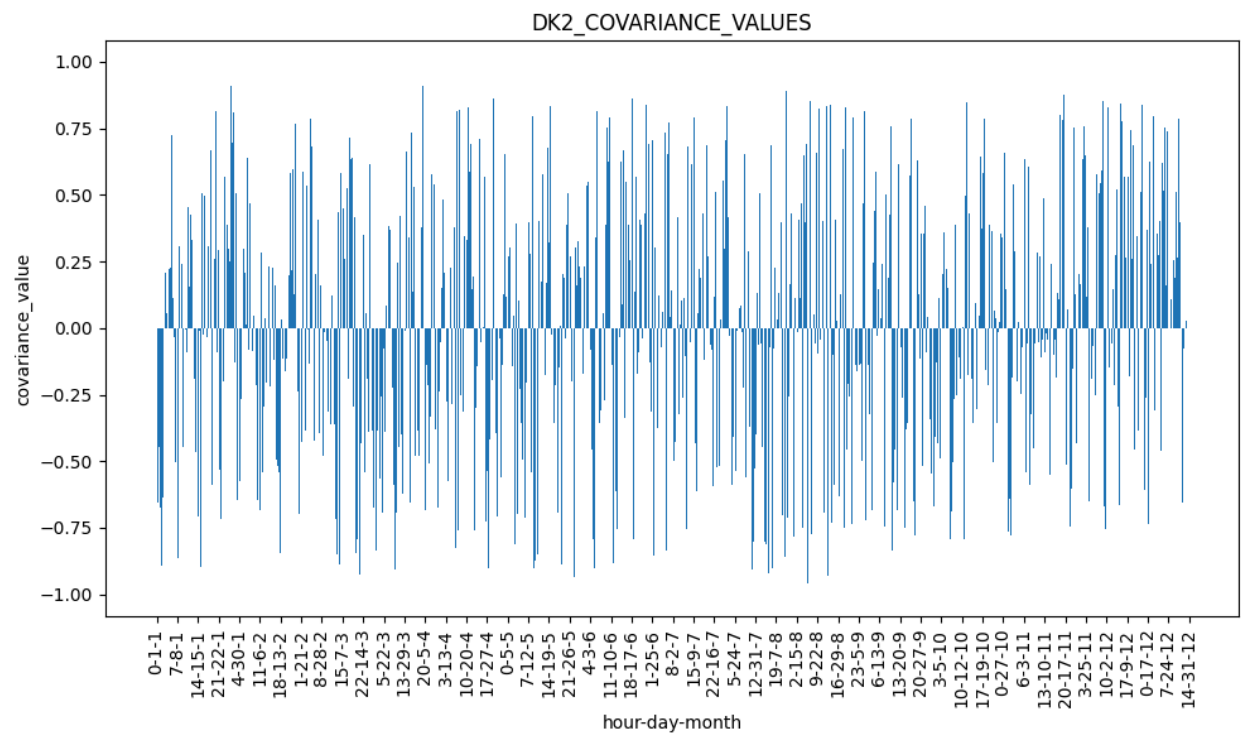
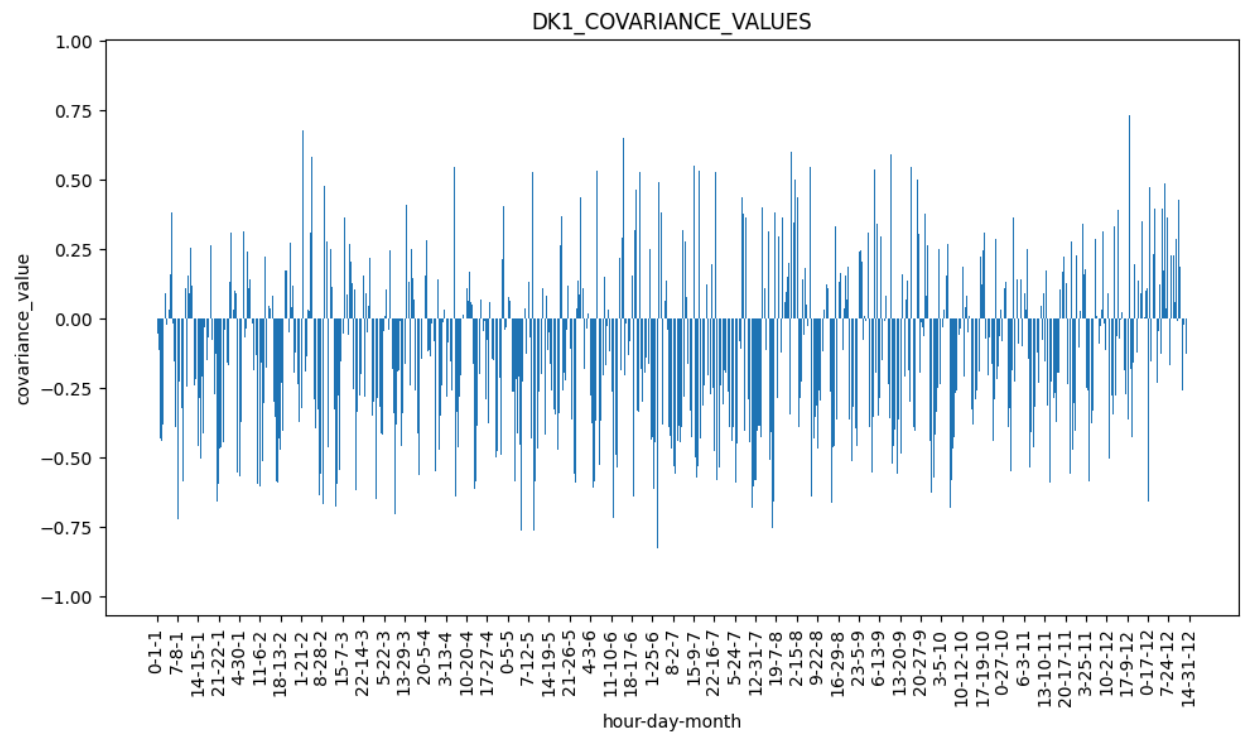
ReadMe

- To calculate the mean covariance value for each hour of the day,. you compute the average covariance value using all the data points collected during the corresponding hour for each day in that year. This process is repeated every hour, from the 1st to the 24th.

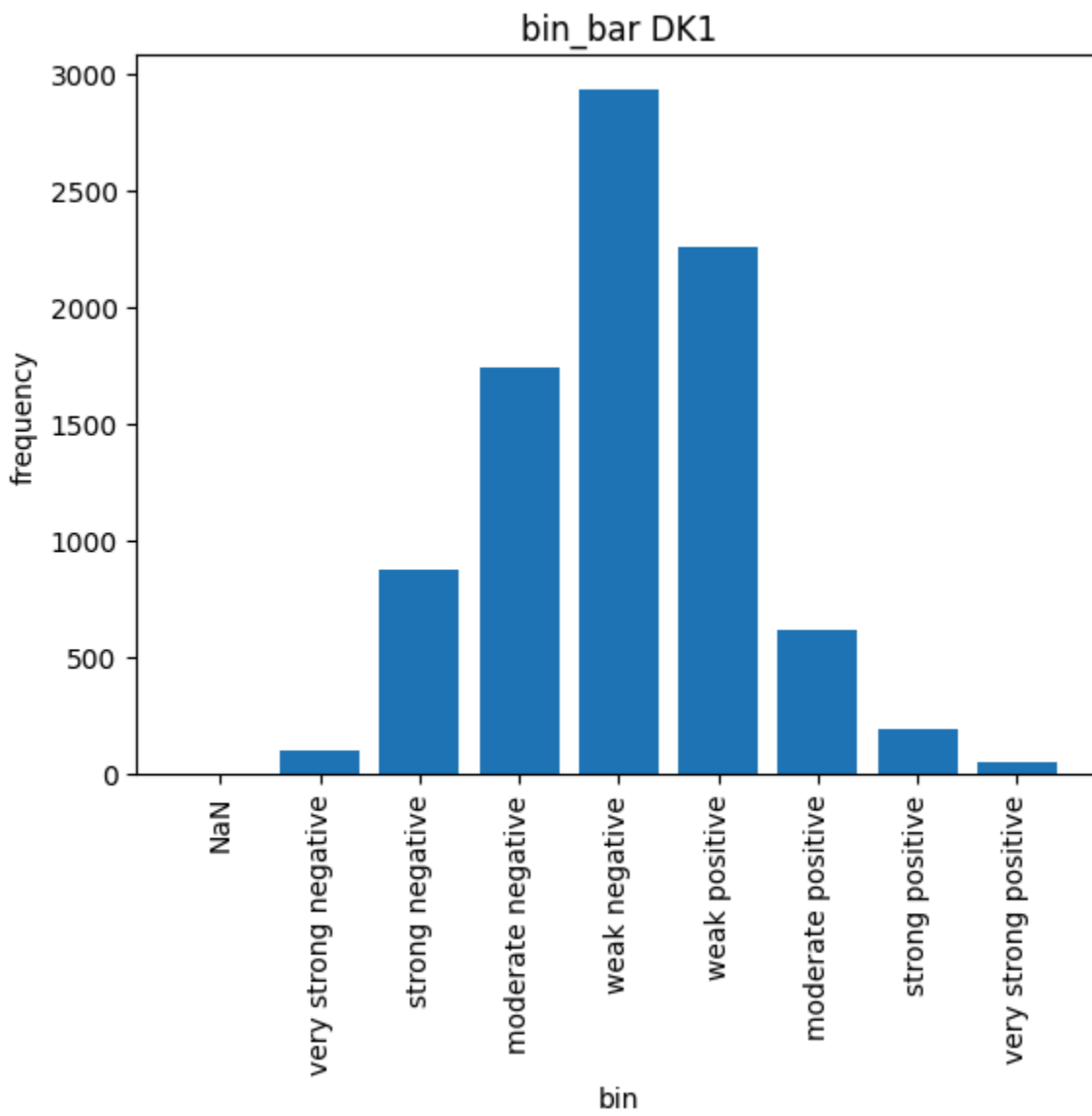
VA

- ☒ ~~Make the table of the NO and VA (8760*6). column-year~~
- ☒ ~~Draw some random graphs on it (line graph) (x years,y values)~~
- ☒ ~~Make 2 table for the DK1 and DK2 (8760*6)~~
- ☒ ~~Calculate r(8760) by using the pearson r libraries~~
- ☒ ~~Make Bar graph (bin-size)~~
- ☒ ~~Highest r value of the 6 year and also the graph like link (quantile graph also)~~
- ☒ ~~Histogram for the whole 8760 values (line graph)~~
- ☒ ~~Break the data into months (highest r, quantile graph)~~

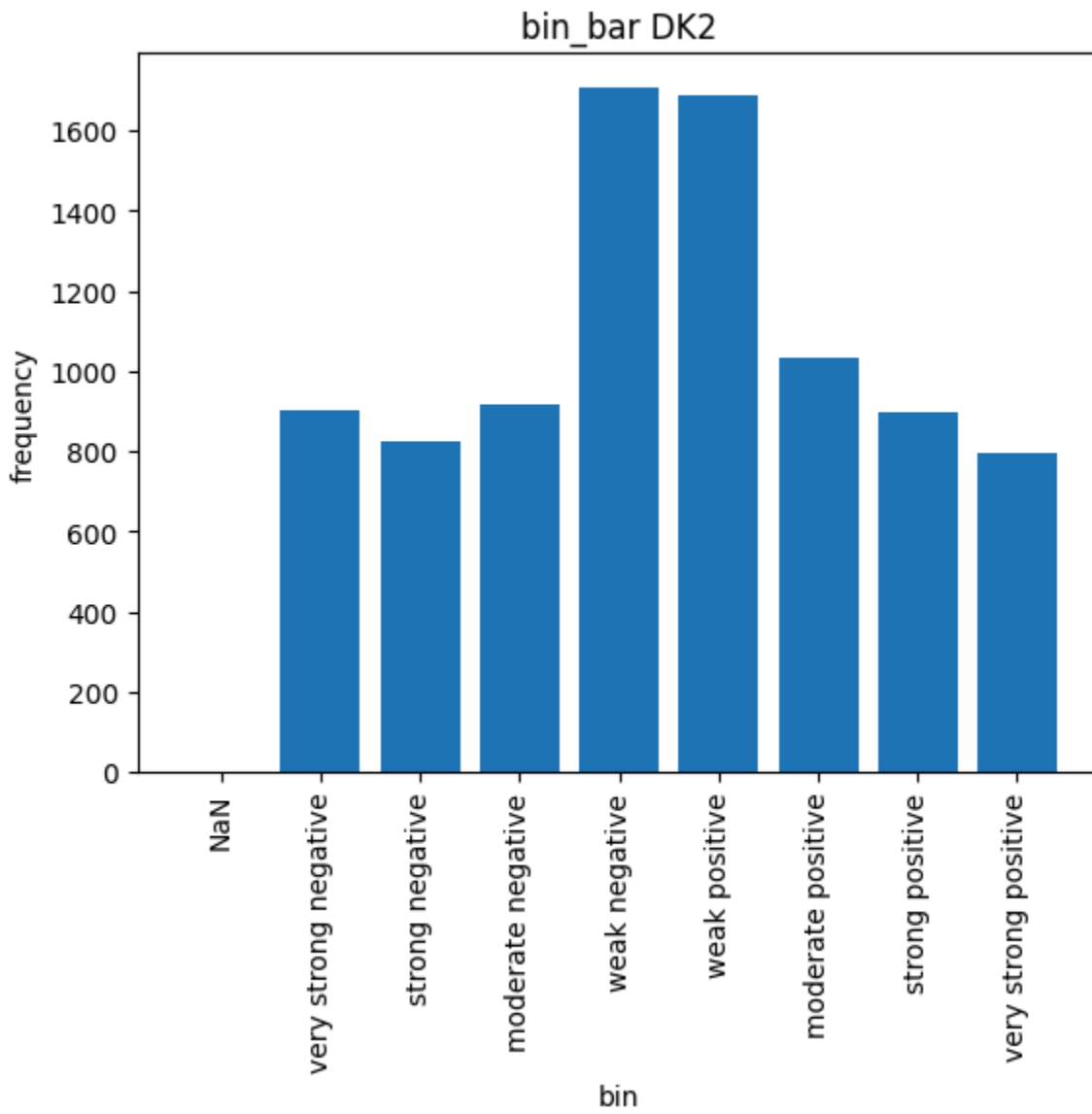
HISTOGRAM GRAPHS OVER THE YEARS



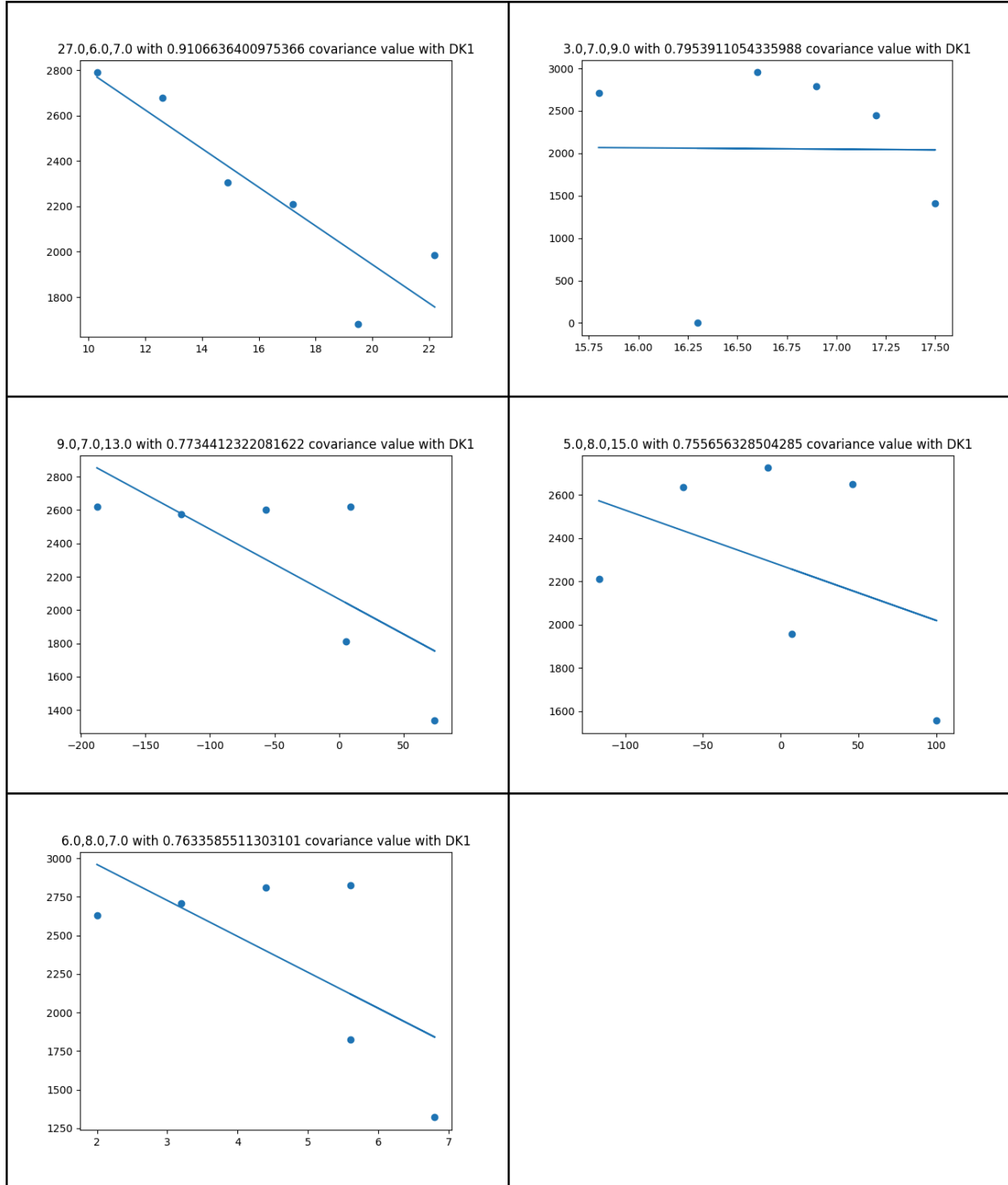
Bin Graph DK1



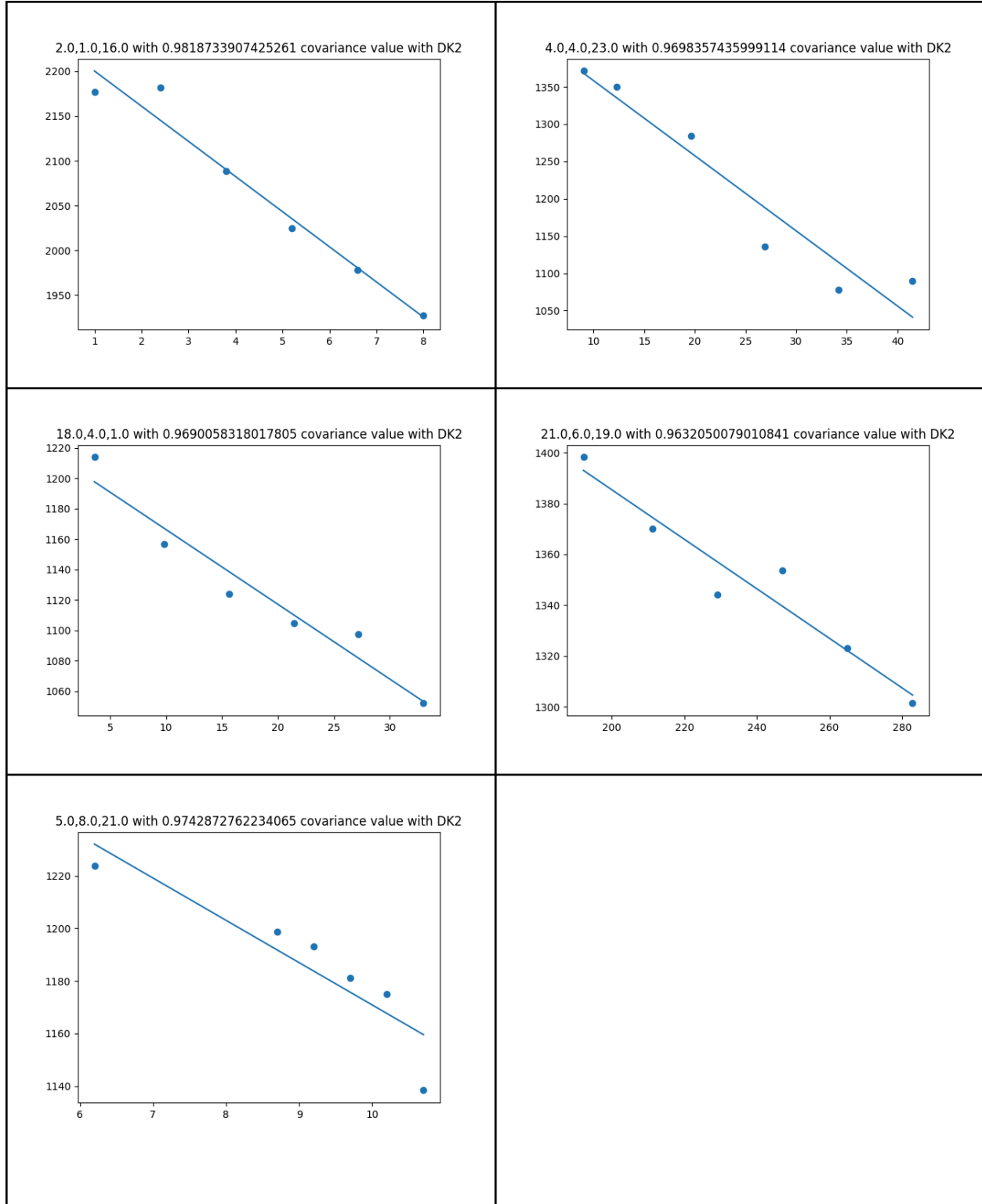
Bin Graph DK2



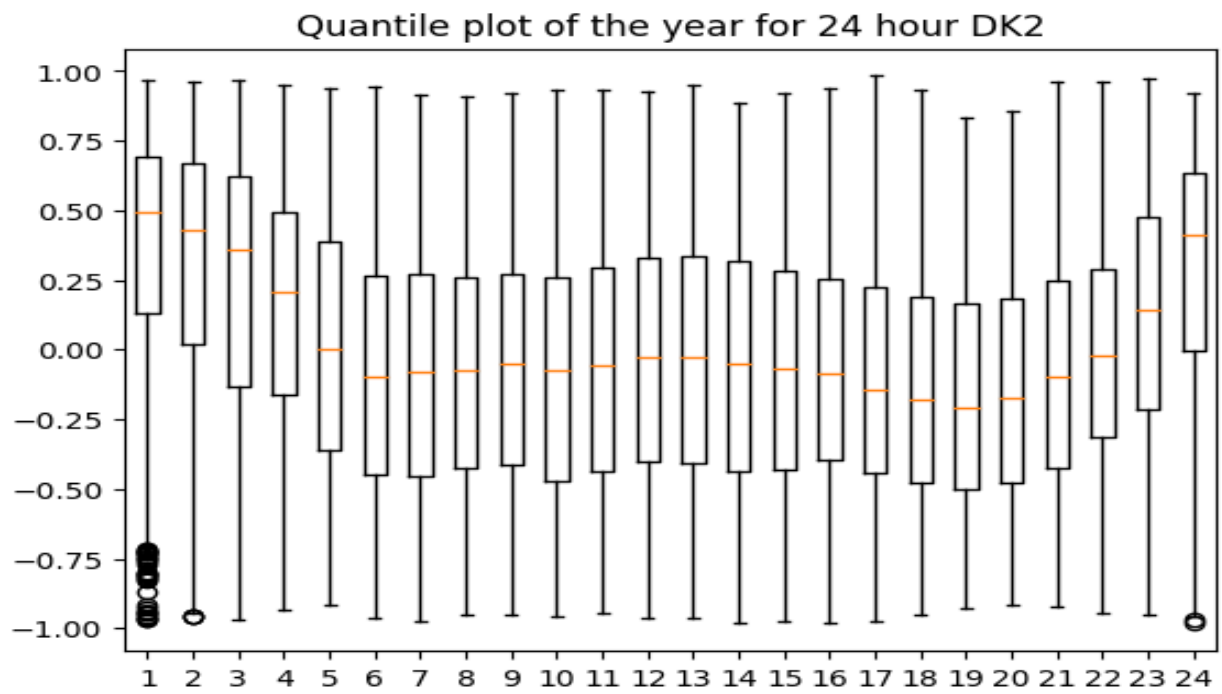
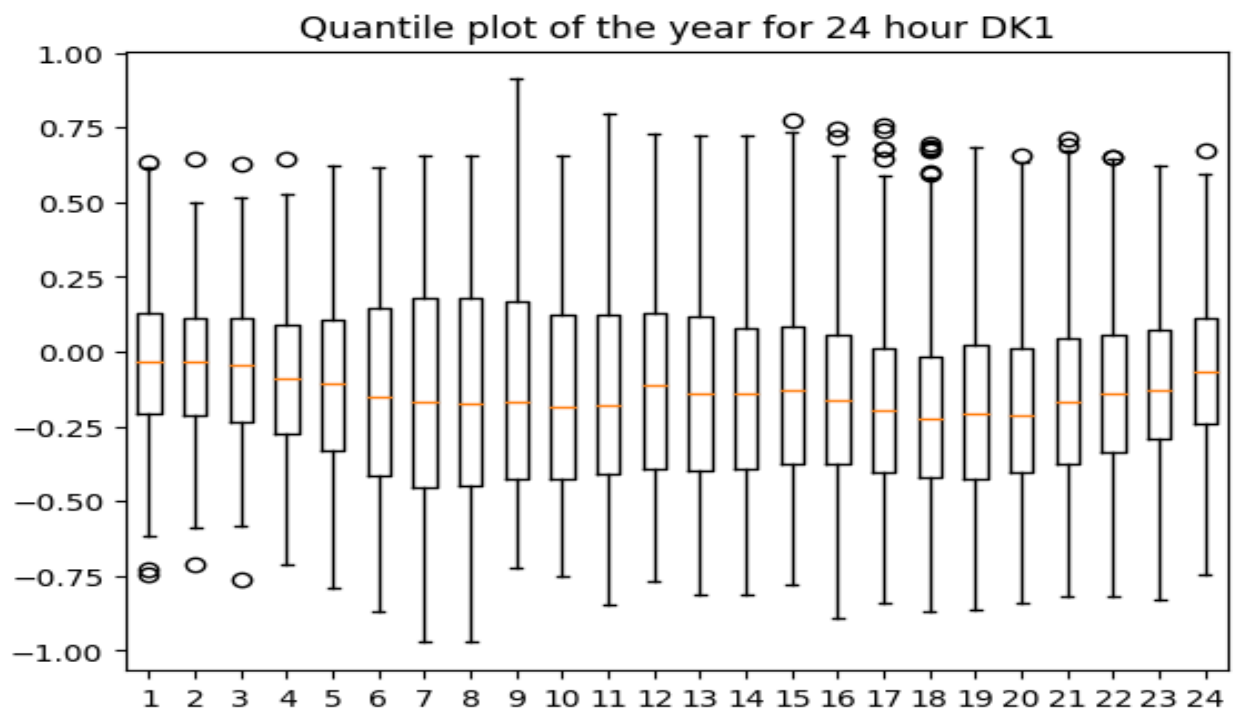
Highest Covariance values (link) graph DK1



Highest Covariance value (link) graph DK2

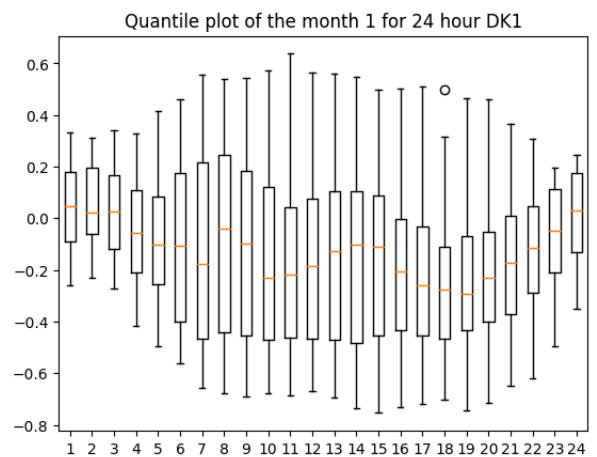


QUANTILE GRAPH OVER THE YEAR

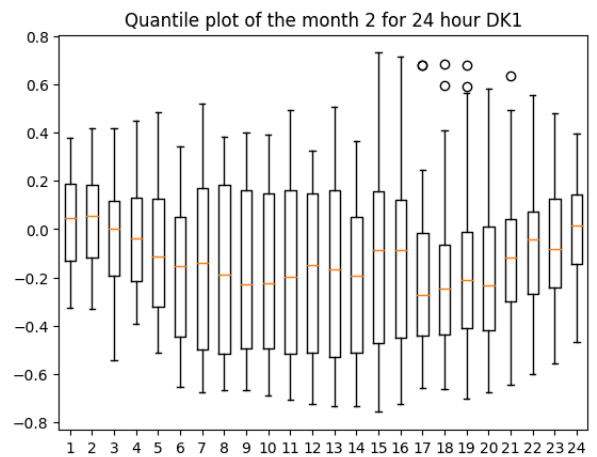


QUANTILE GRAPH OVER THE MONTH WITH HIGHEST COVARIANCE VALUE IN THAT MONTH (DK1)

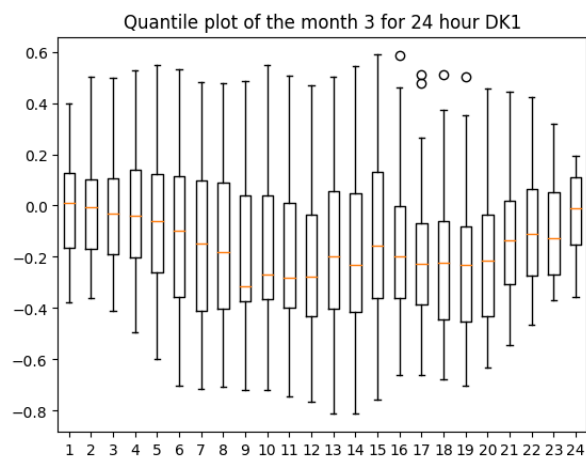
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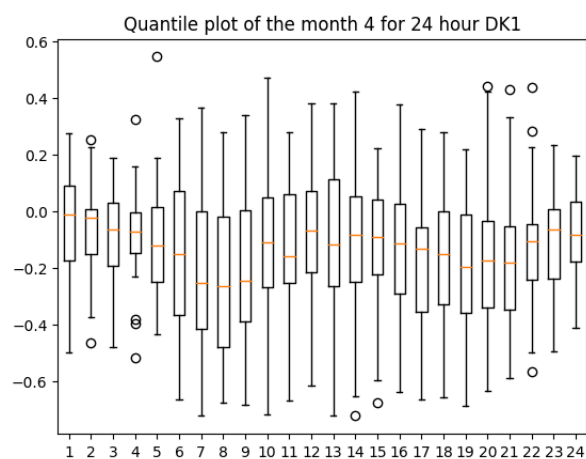
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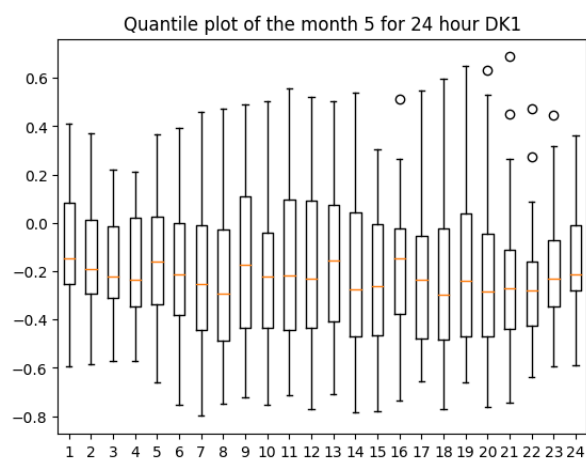
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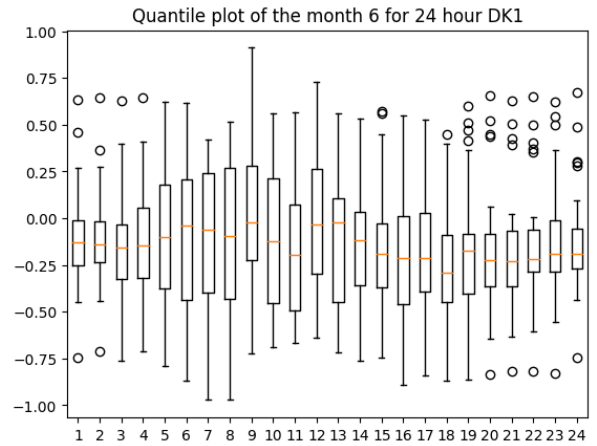
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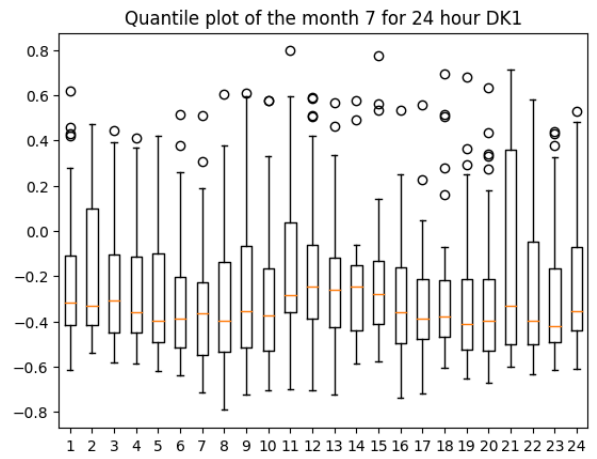
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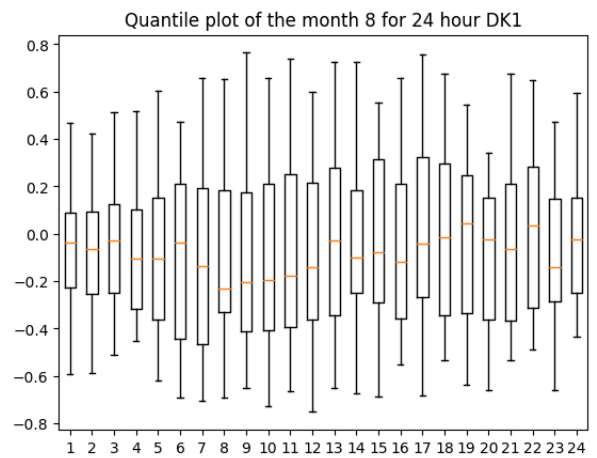
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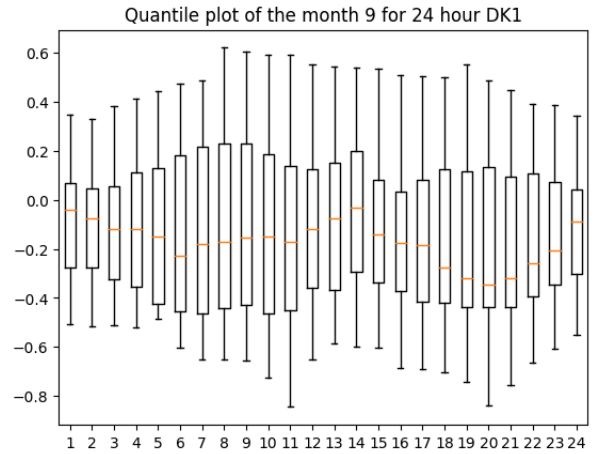
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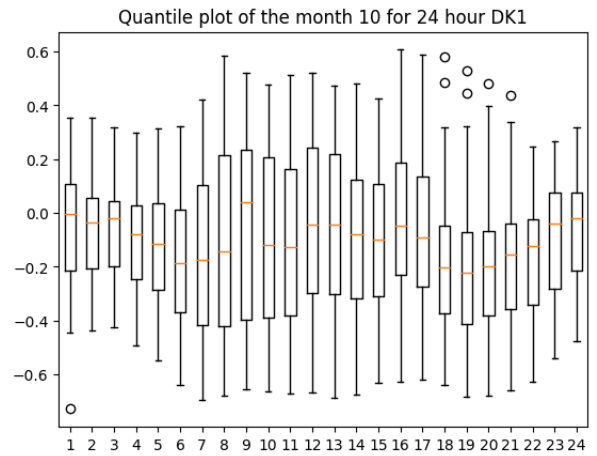
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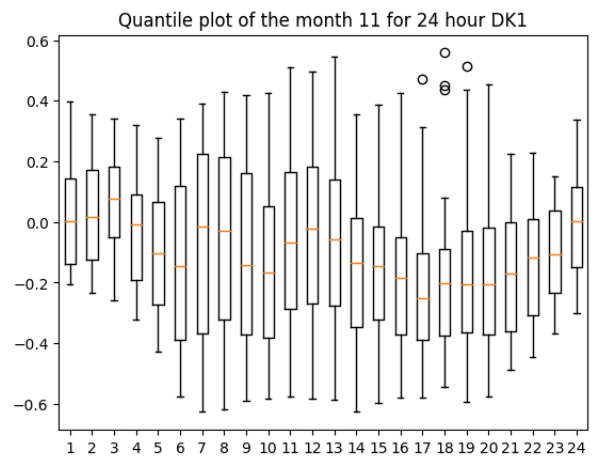
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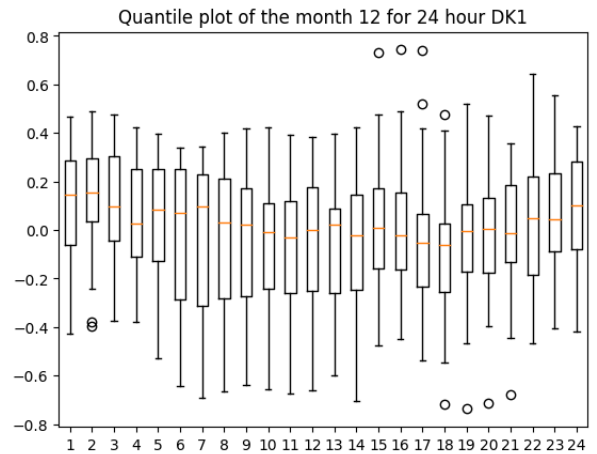
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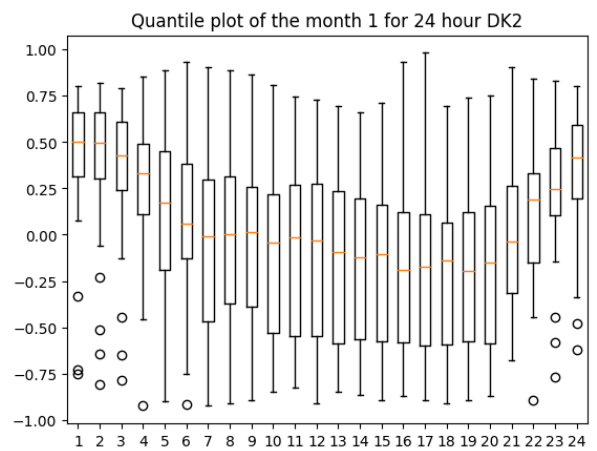


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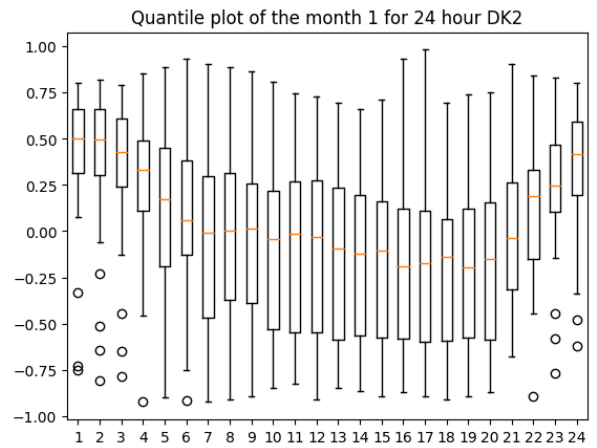


QUANTILE GRAPH OVER THE MONTH WITH HIGHEST COVARIANCE VALUE IN THAT MONTH(DK2)

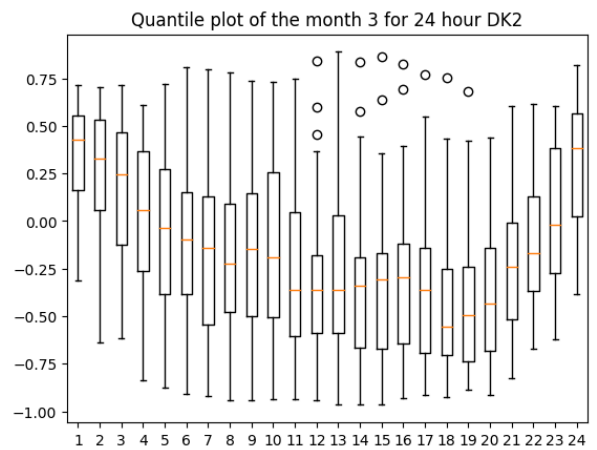
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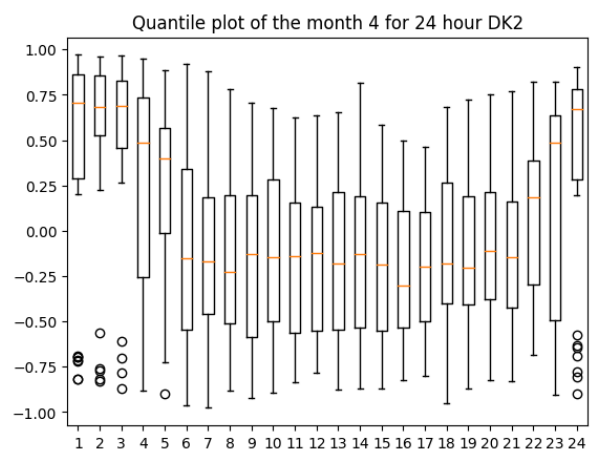
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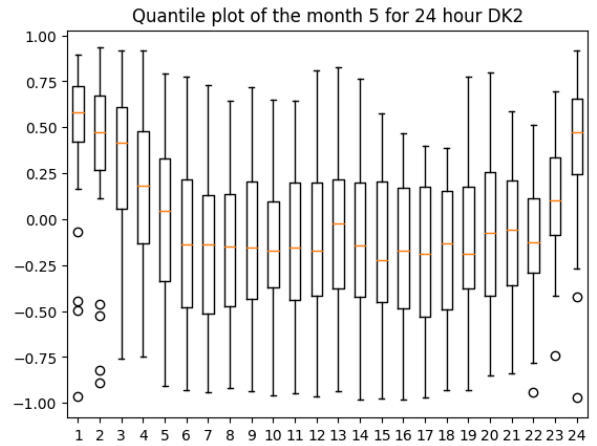
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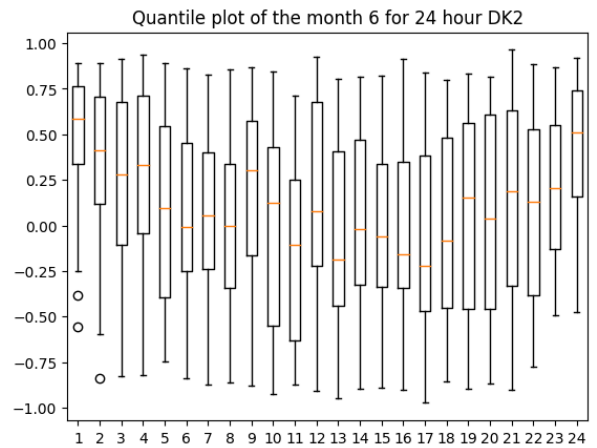
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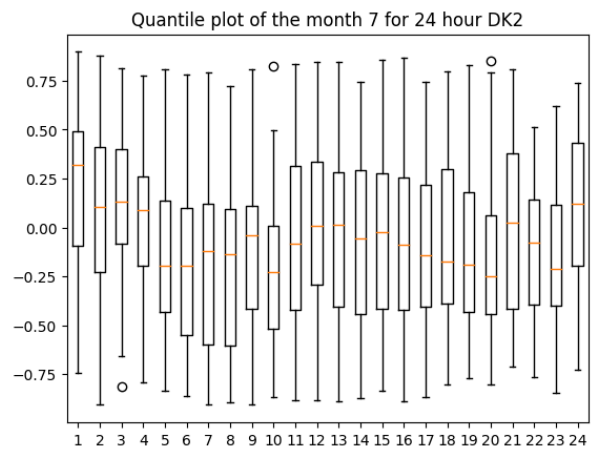
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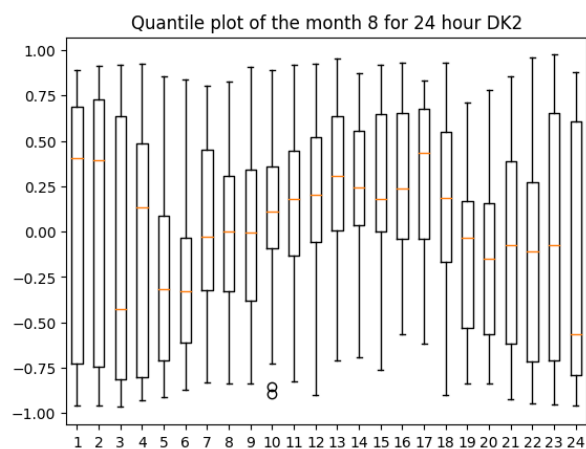
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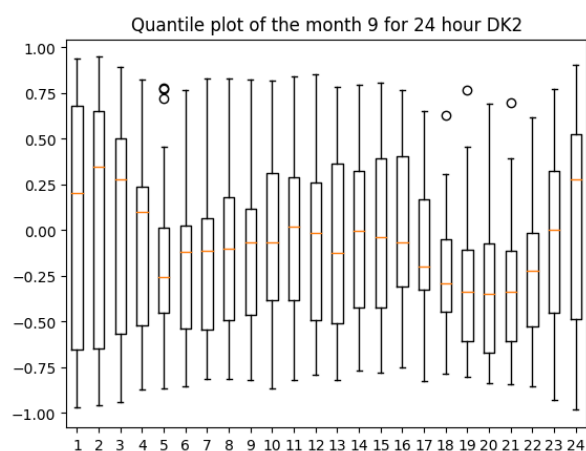
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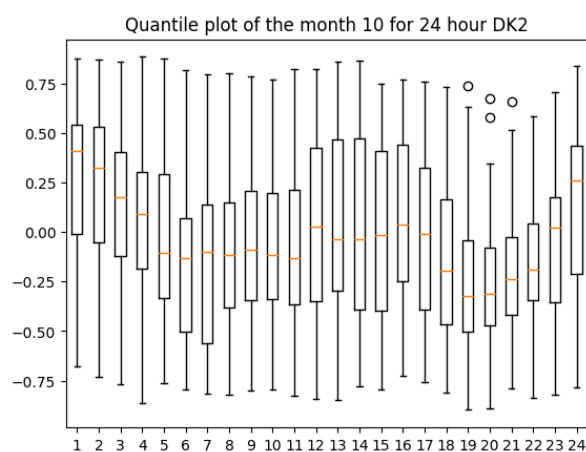
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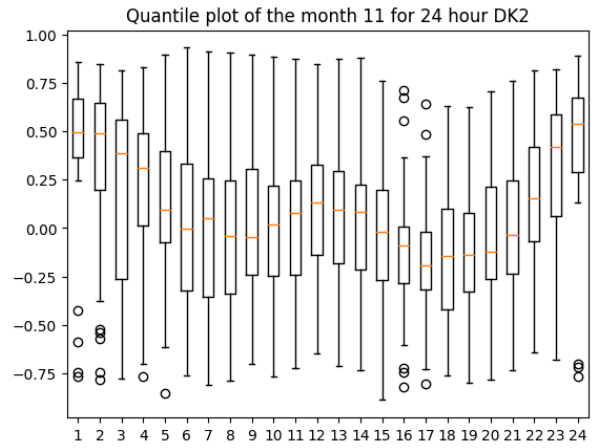
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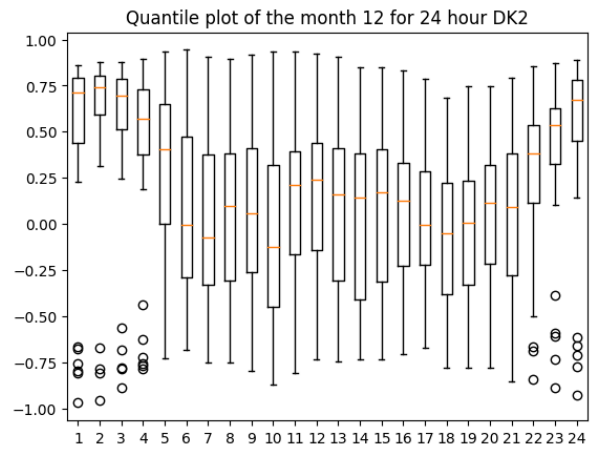
0.883043



0.932038



0.943188



High correlation days when both factories are available?

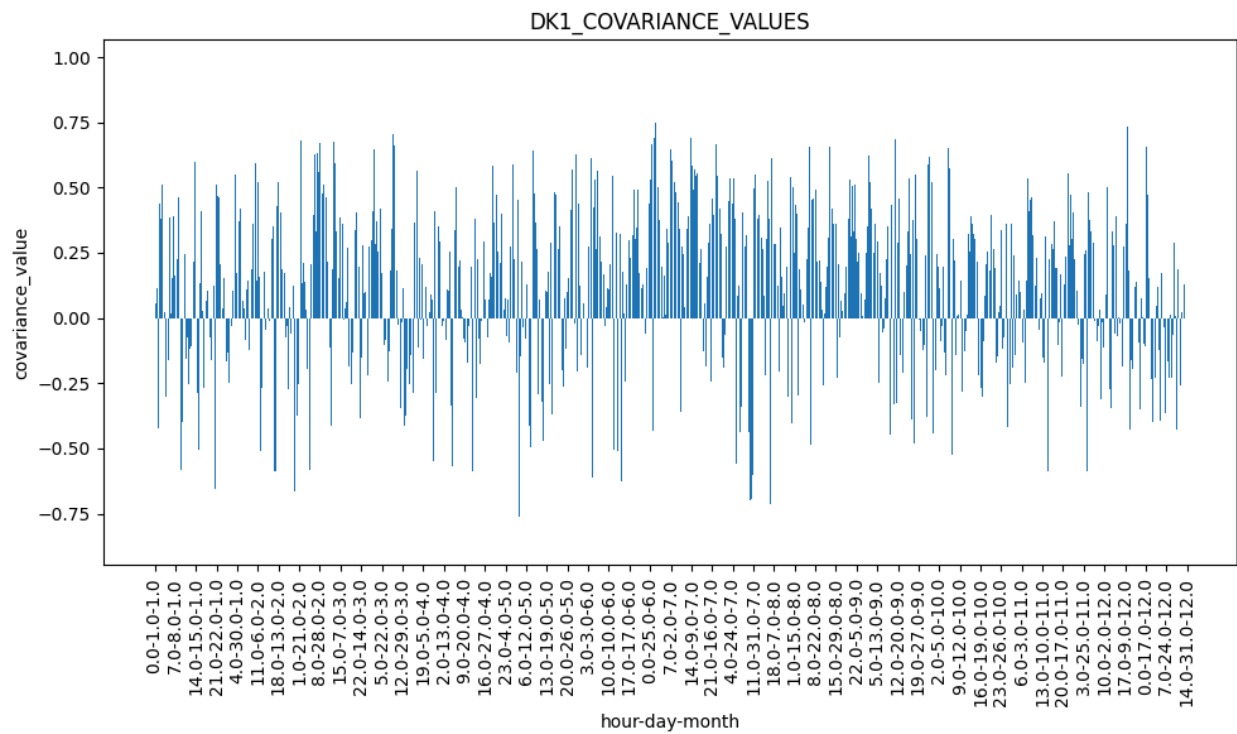
Month	Day
1	3
6	5
6	14
8	6
8	13

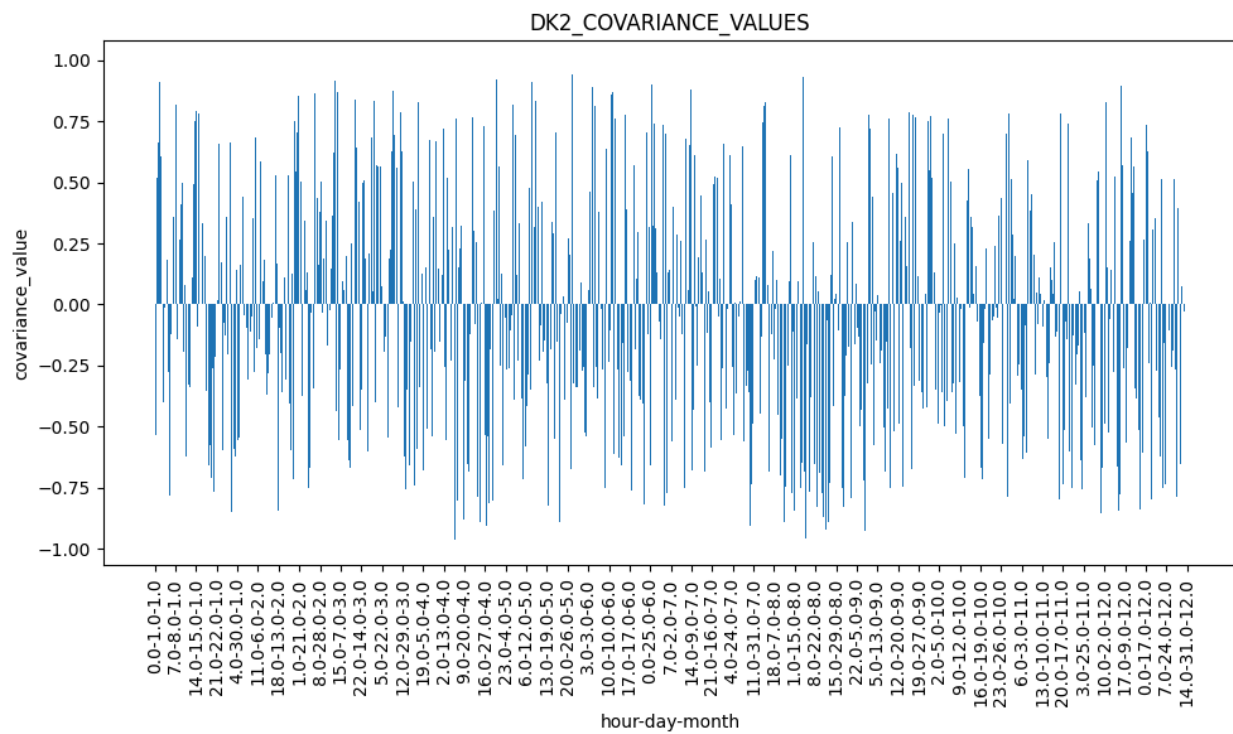
High correlation Hours when both factories are available?

Month	Hour
7	10
7	20
8	12

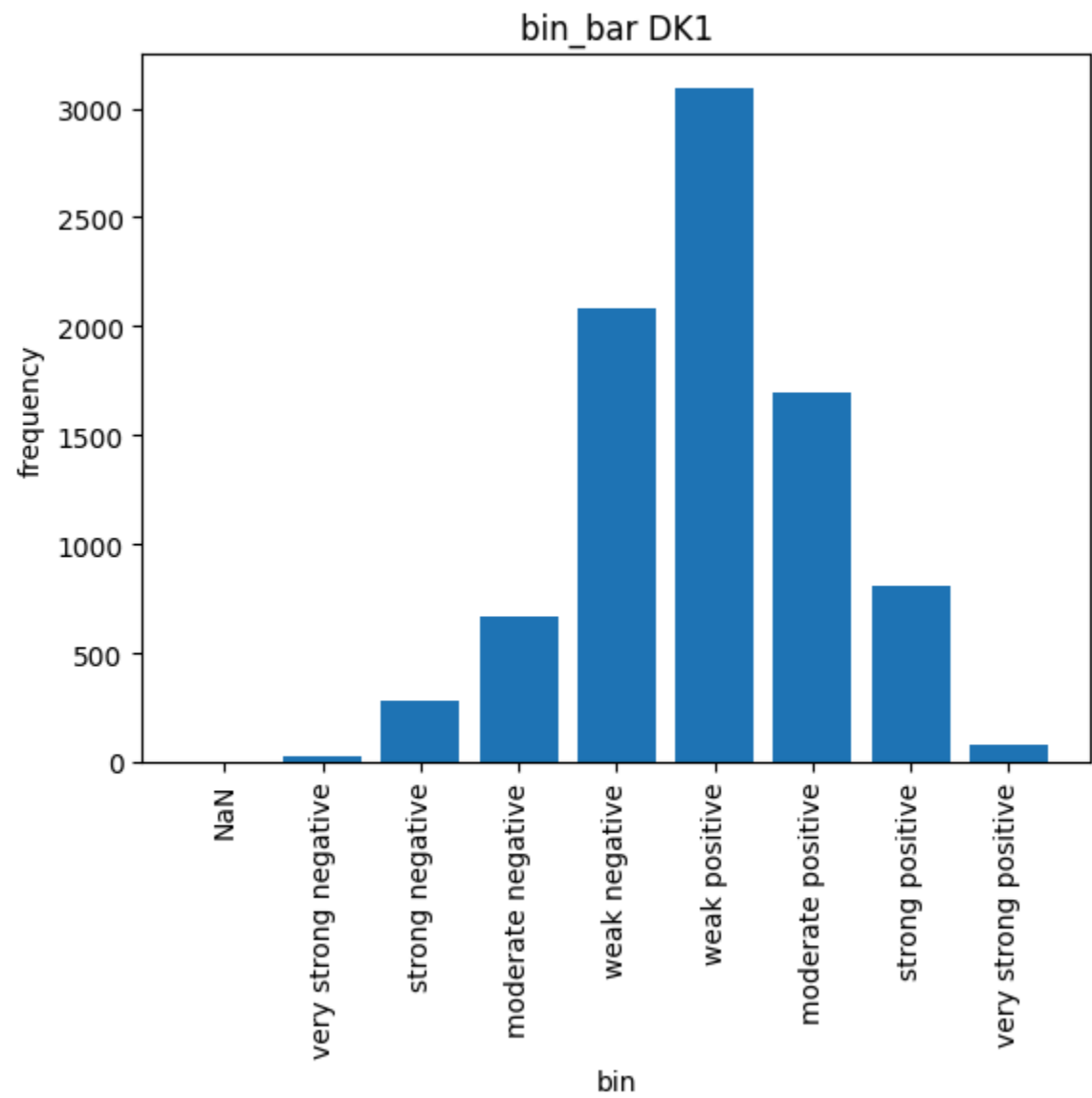
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HISTOGRAM GRAPHS OVER THE YEARS

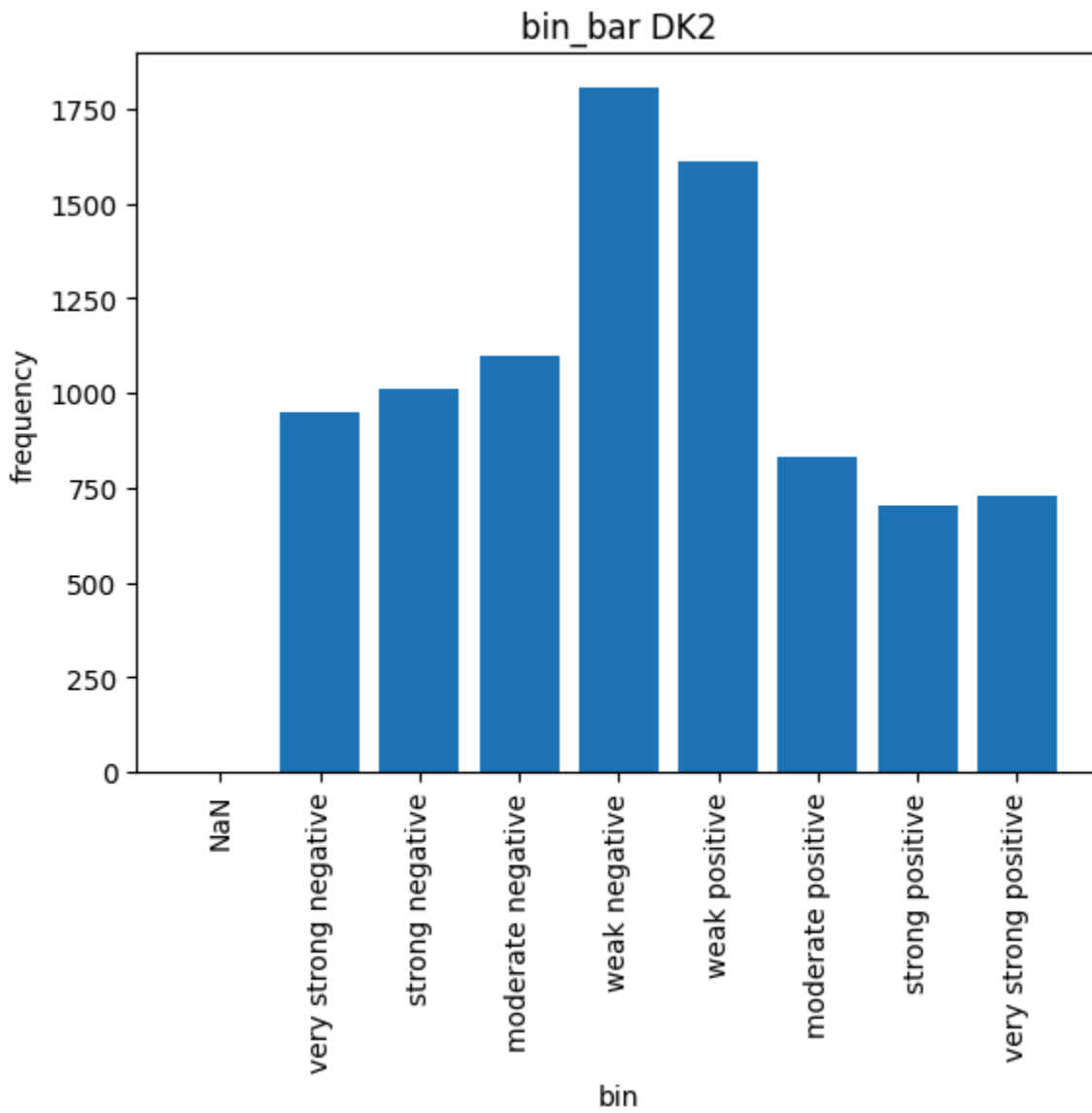




Bin Graph DK1

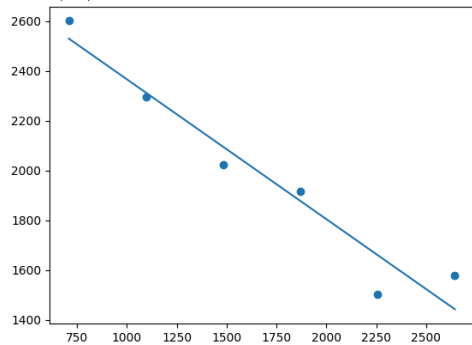


Bin Graph DK2

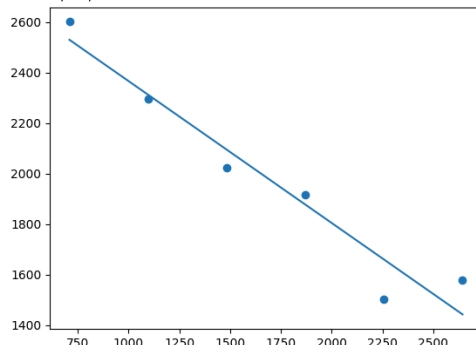


Highest Covariance values (link) graph DK1

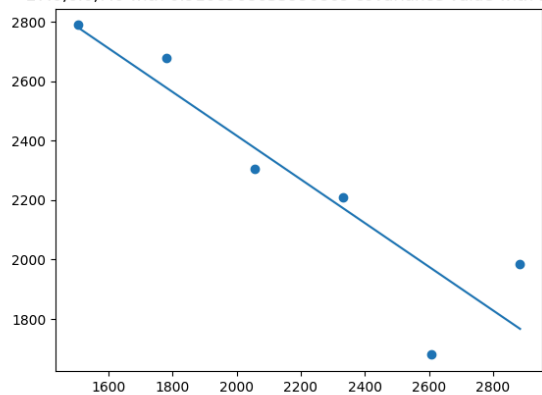
27.0,6.0,5.0 with 0.968243708372143 covariance value with DK1



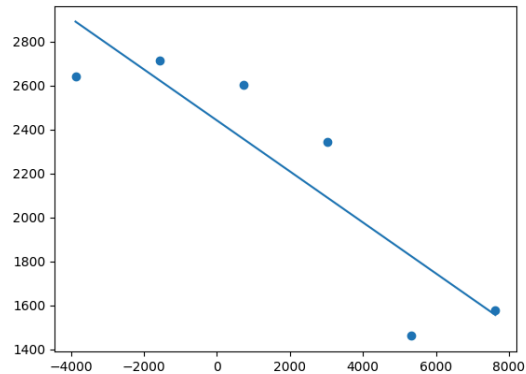
27.0,6.0,5.0 with 0.968243708372143 covariance value with DK1



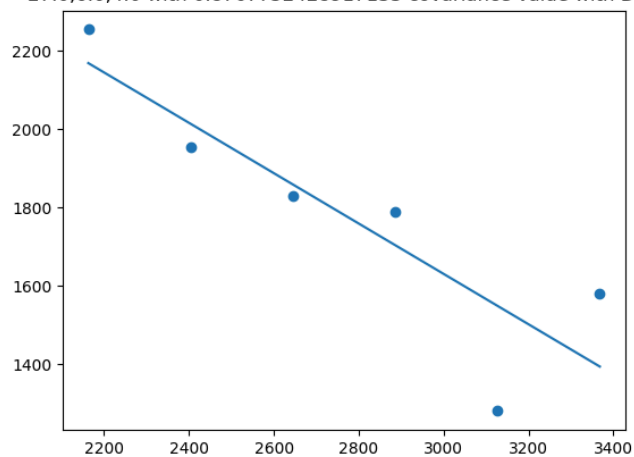
27.0,6.0,7.0 with 0.9106968635990869 covariance value with DK1



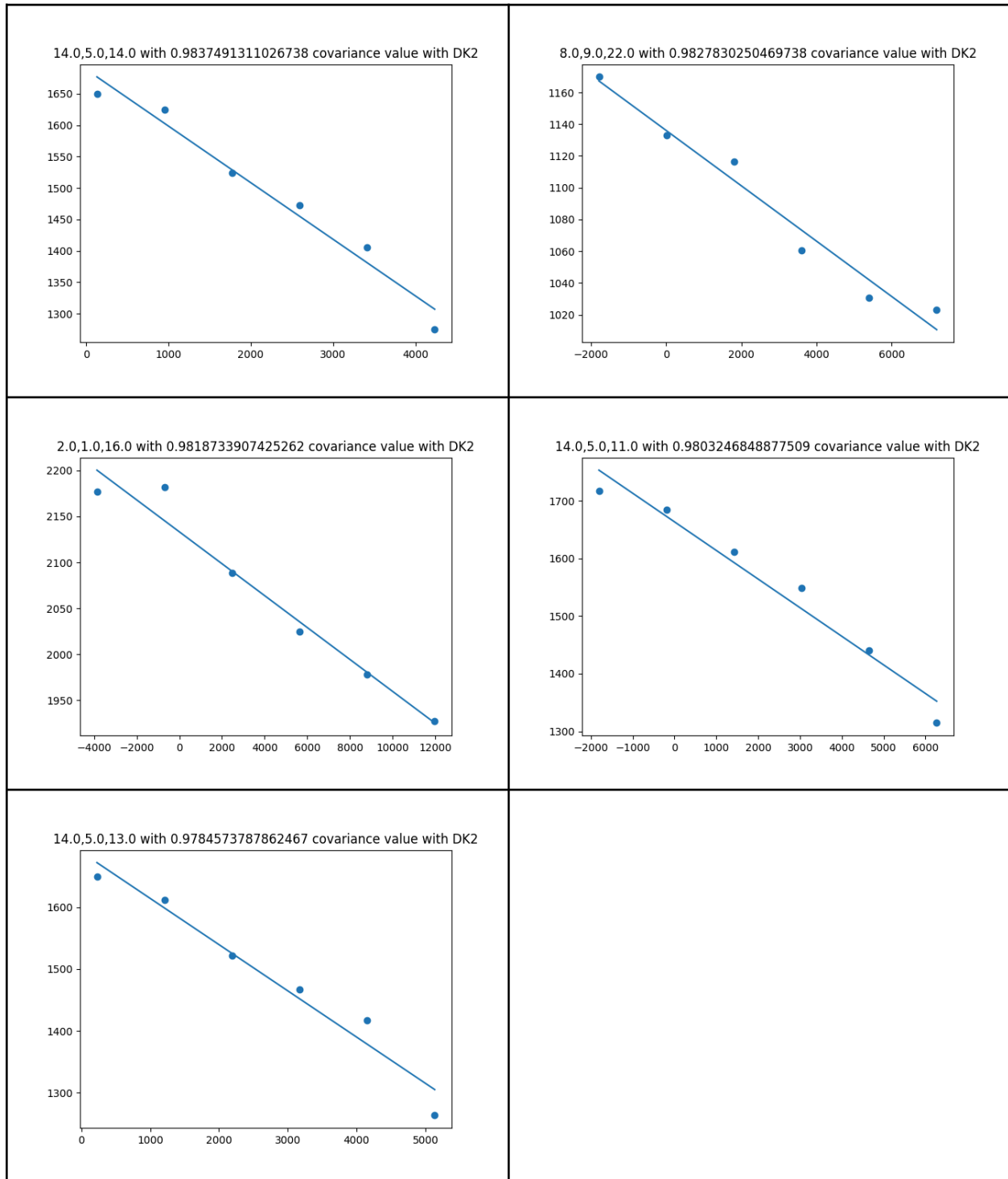
26.0,6.0,14.0 with 0.8904320173896414 covariance value with DK1



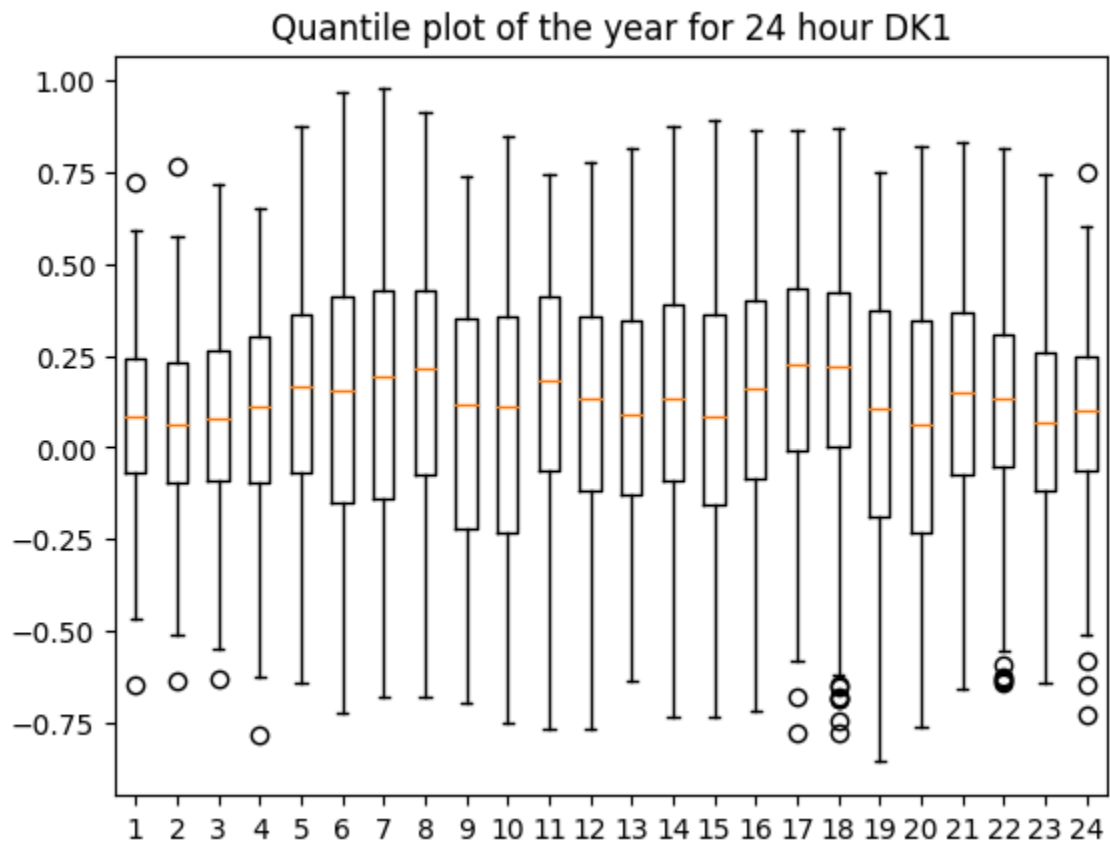
27.0,6.0,4.0 with 0.8767752428917133 covariance value with DK1



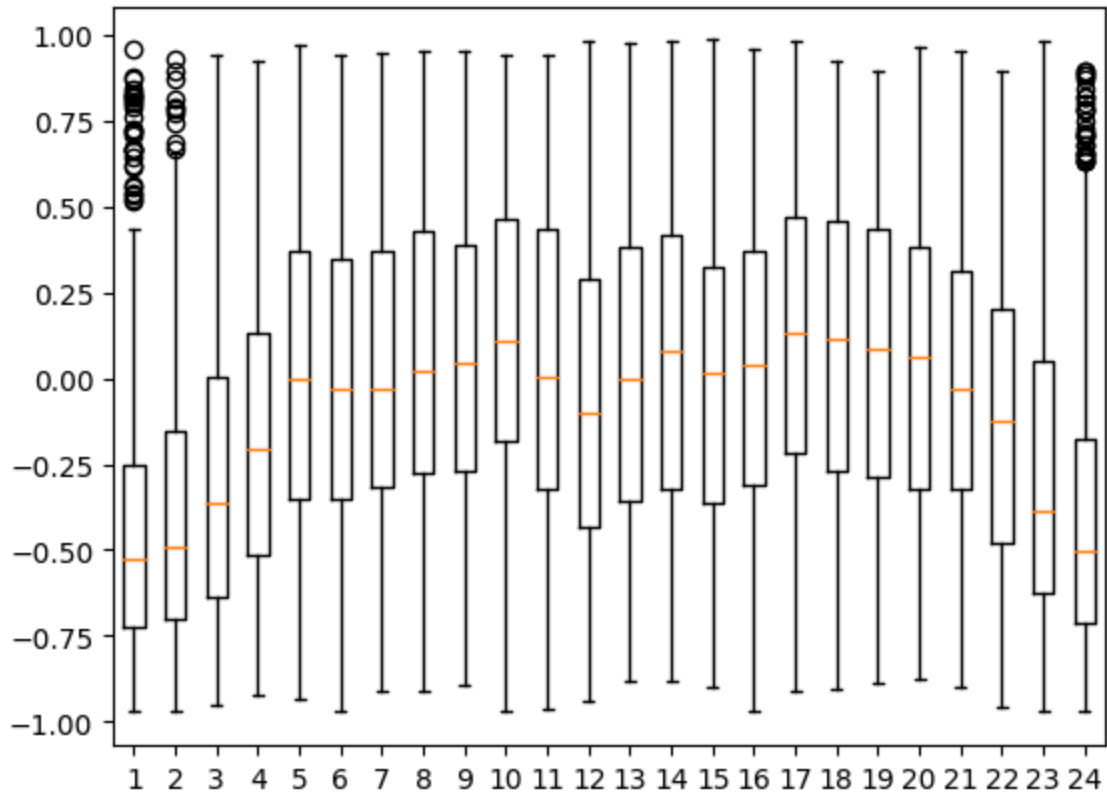
Highest Covariance value (link) graph DK2



QUANTILE GRAPH OVER THE YEAR

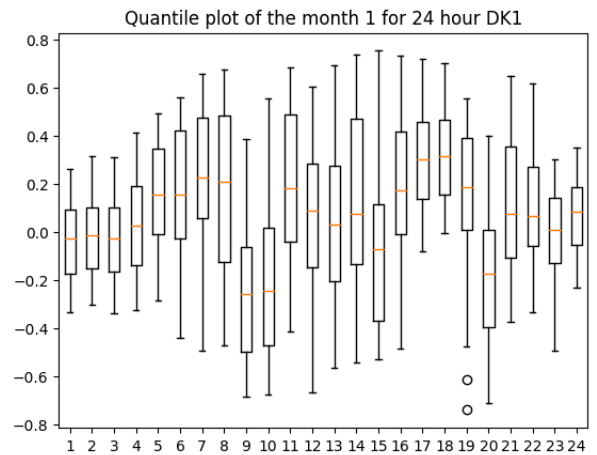


Quantile plot of the year for 24 hour DK2

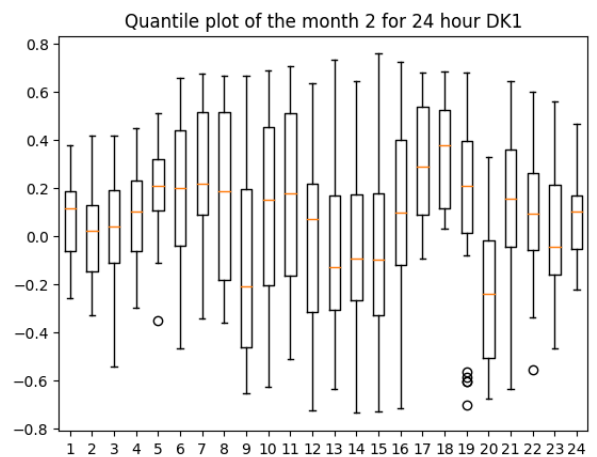


QUANTILE GRAPH OVER THE MONTH WITH HIGHEST COVARIANCE VALUE IN THAT MONTH(DK1)

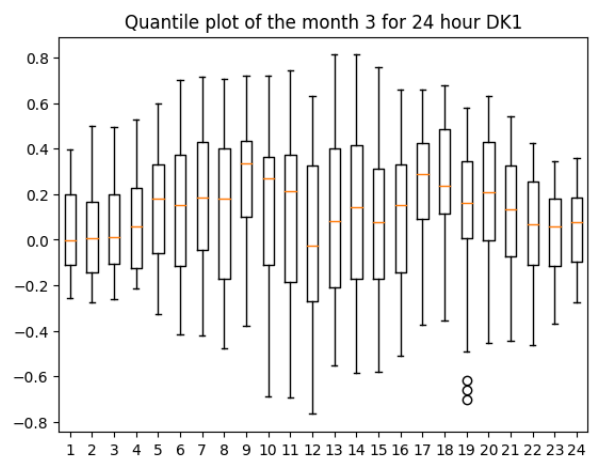
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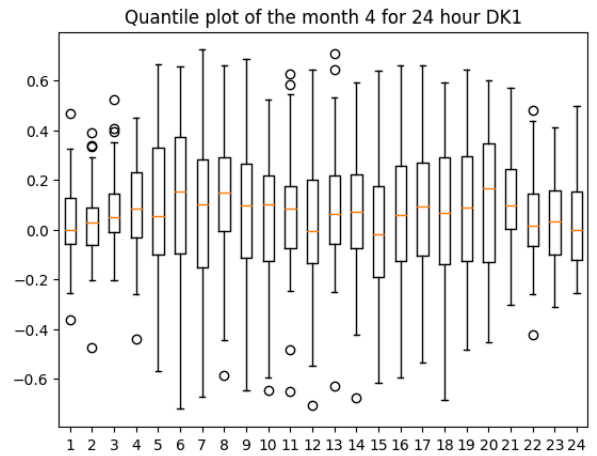
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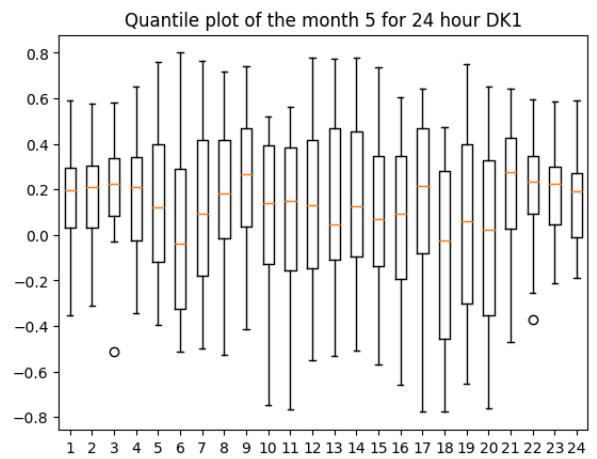
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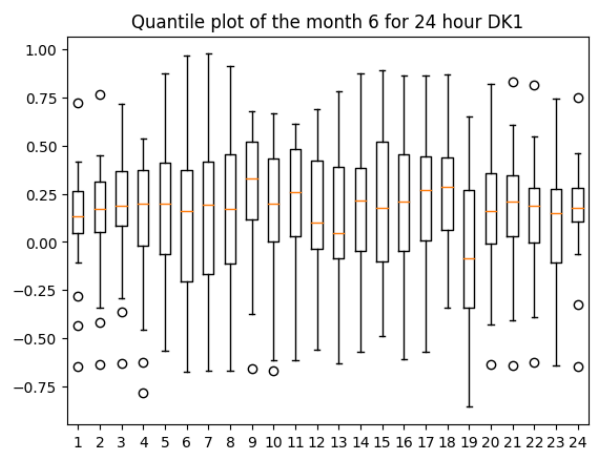
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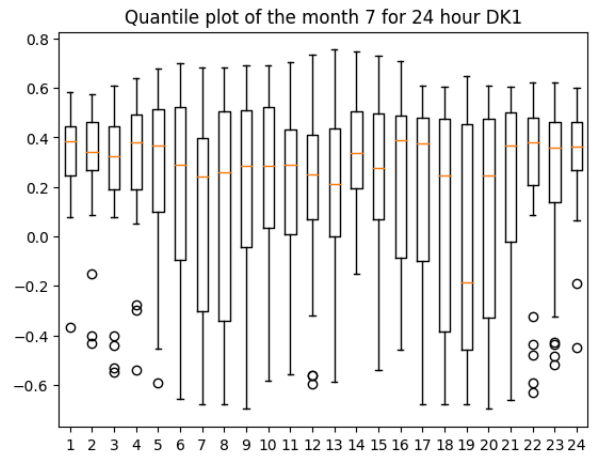
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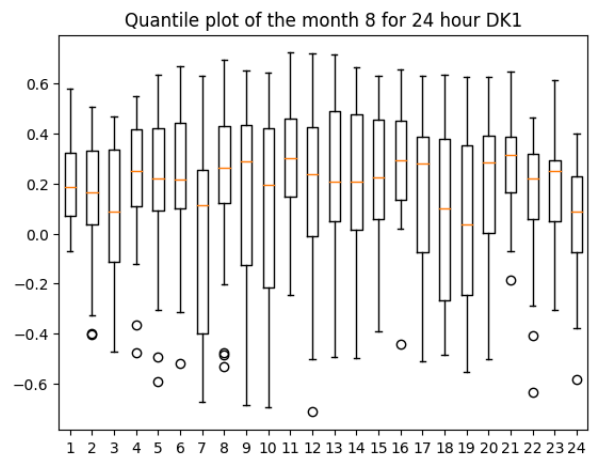
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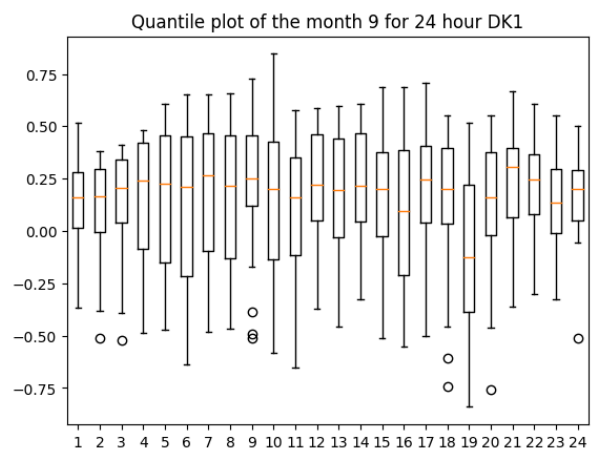
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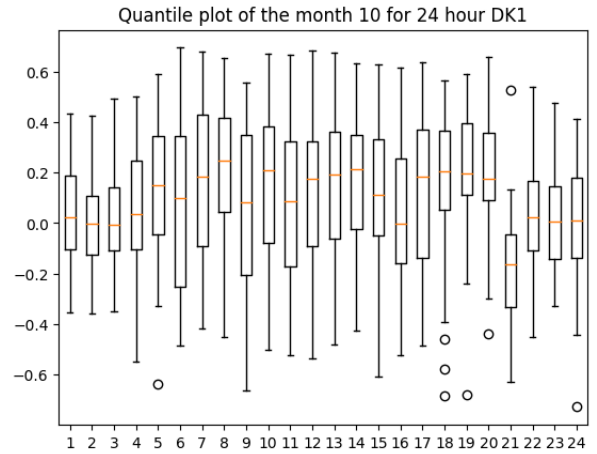
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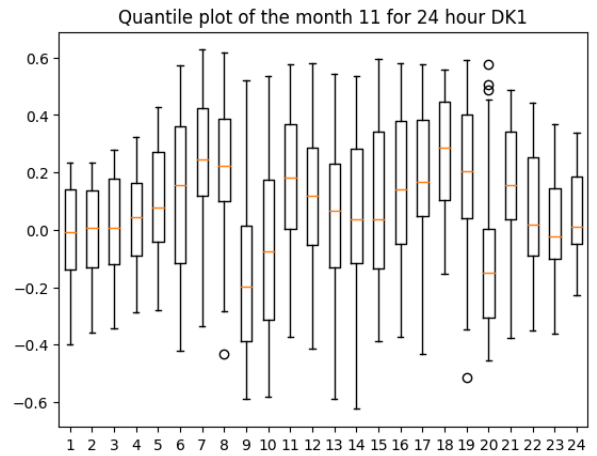
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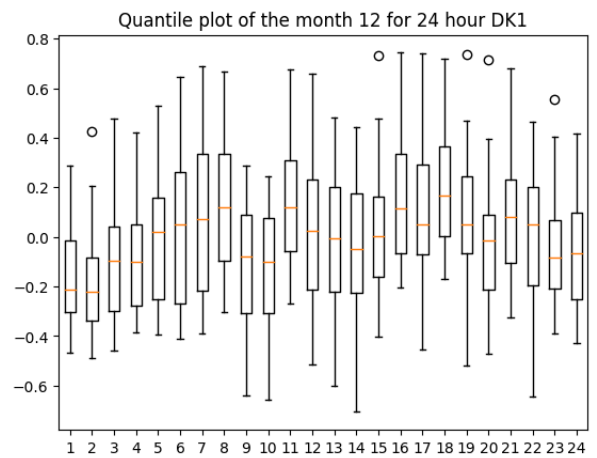
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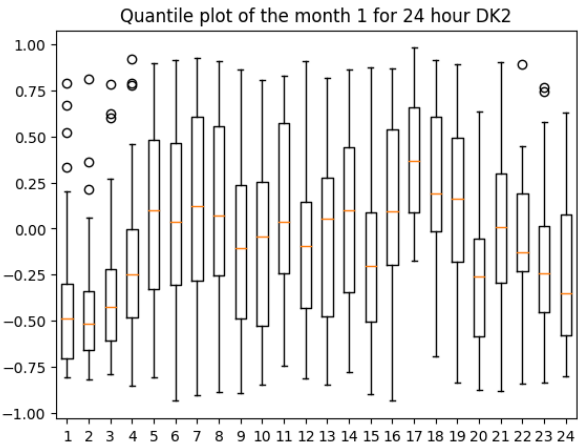


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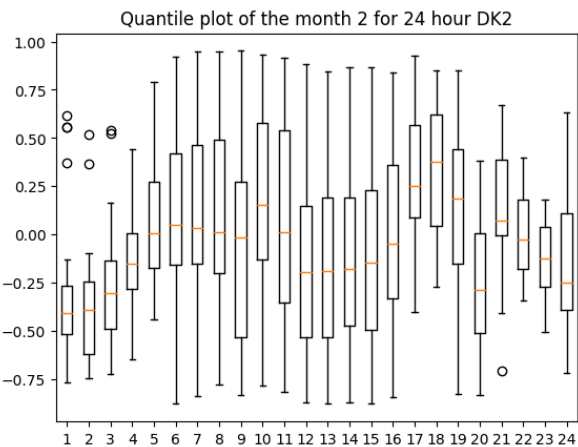


QUANTILE GRAPH OVER THE MONTH WITH HIGHEST COVARIANCE VALUE IN THAT MONTH (DK2)

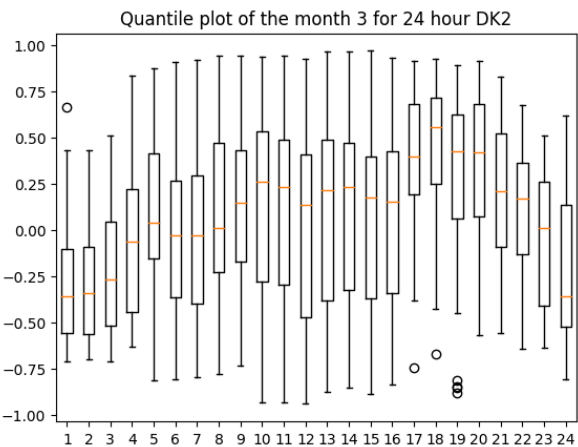
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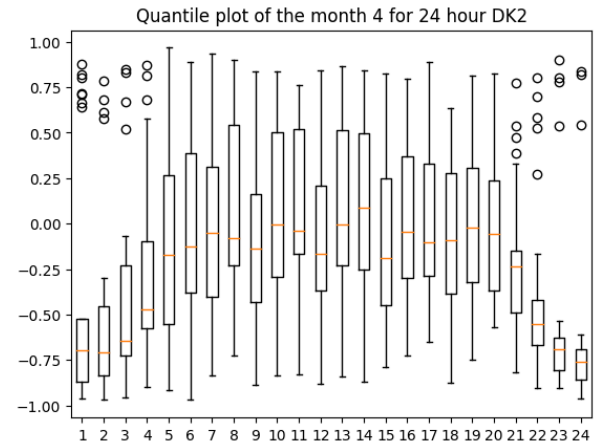
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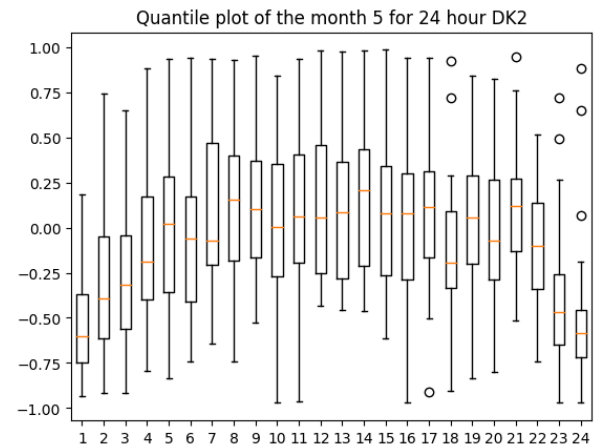
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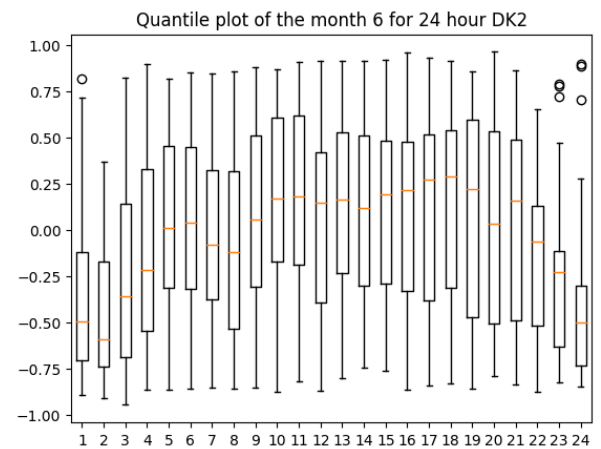
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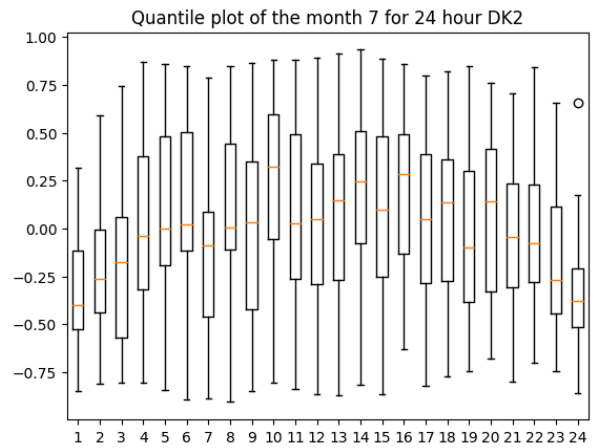
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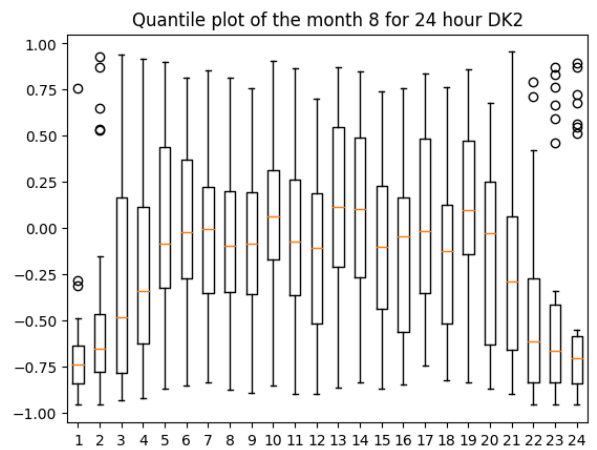
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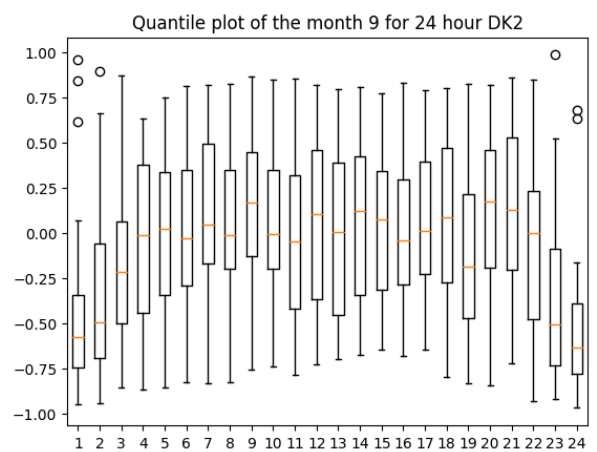
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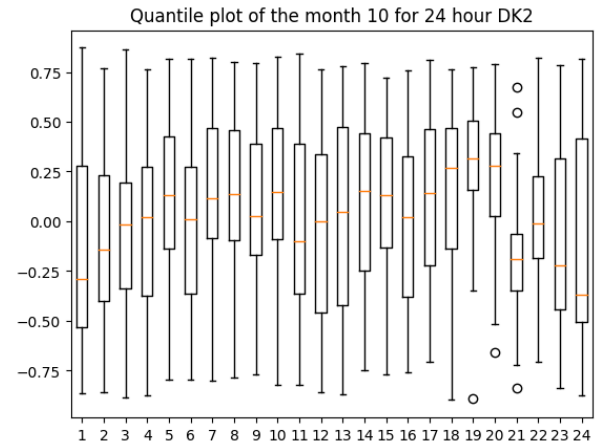
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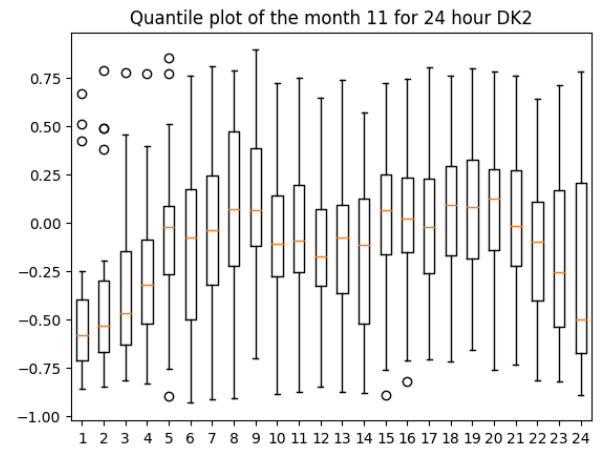
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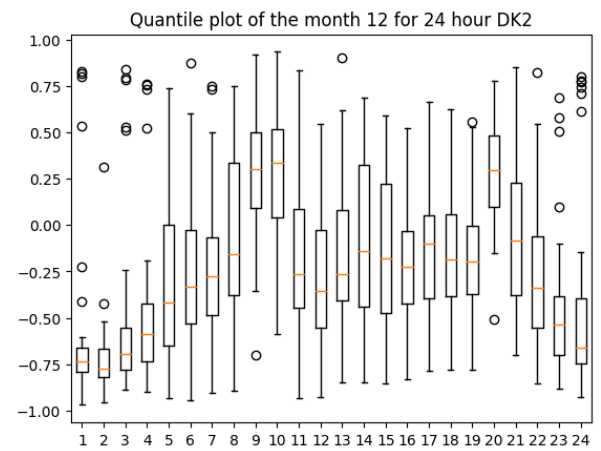
0.871221



0.89465



0.934385



High correlation days when both factories are available?

ReadMe-

For these days in the year, both factories have correlation values higher than 0.5 for more than 12 hours per day.

Month	Day
2	26
3	5
3	19
5	14
6	25
7	2
7	9
7	17
8	6
8	27
9	3
9	10
10	1
10	8

High correlation Hours when both factories are available?

ReadMe-

For these hours in the month, the covariance value is greater then 0.5 for atleast 7 days in the 30 days.

Month	Hour
1	7
1	10
2	10
2	16
2	17
3	17
6	8
7	5
7	9
7	13
7	14