

Siemens 6'th Test Report for WiFi 6E RevA

2022.07.15 / Raymond Wang

EVERY CONNECTION COUNTS



TE
connectivity

Picture for Device



Antenna Position

Picture for Antenna Position



Antenna Position

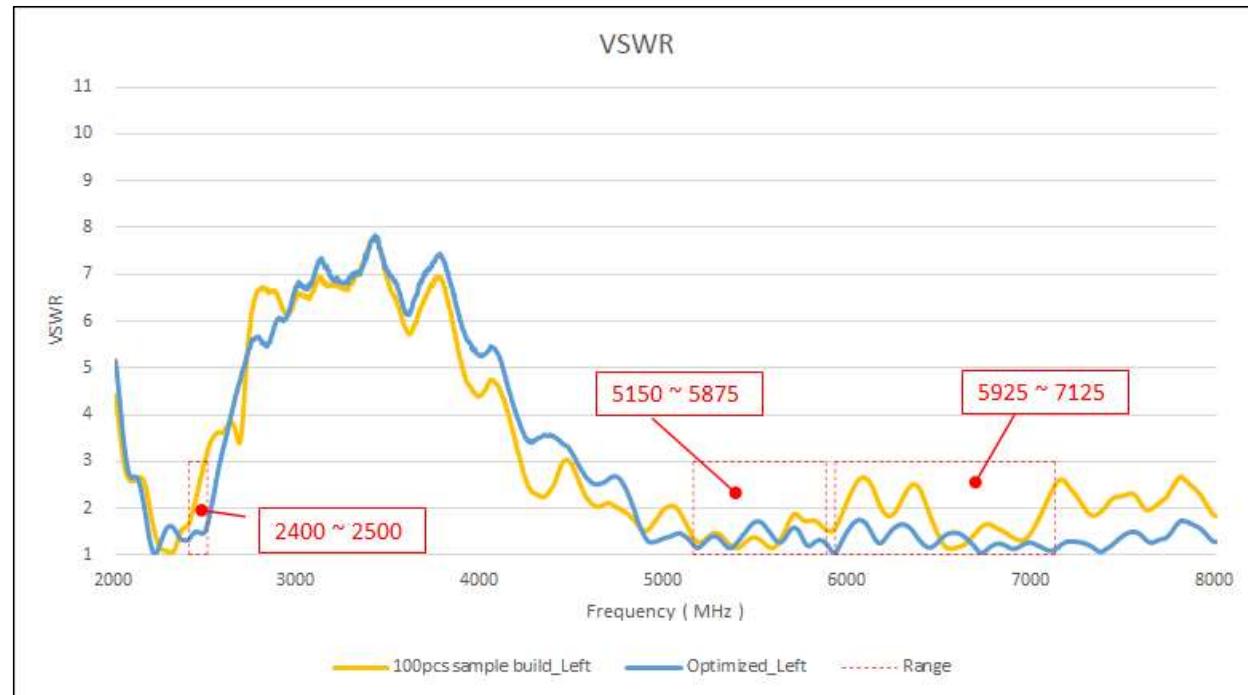


Compare the antenna performance

Compare the performance of optimized sample with 100pcs sample build

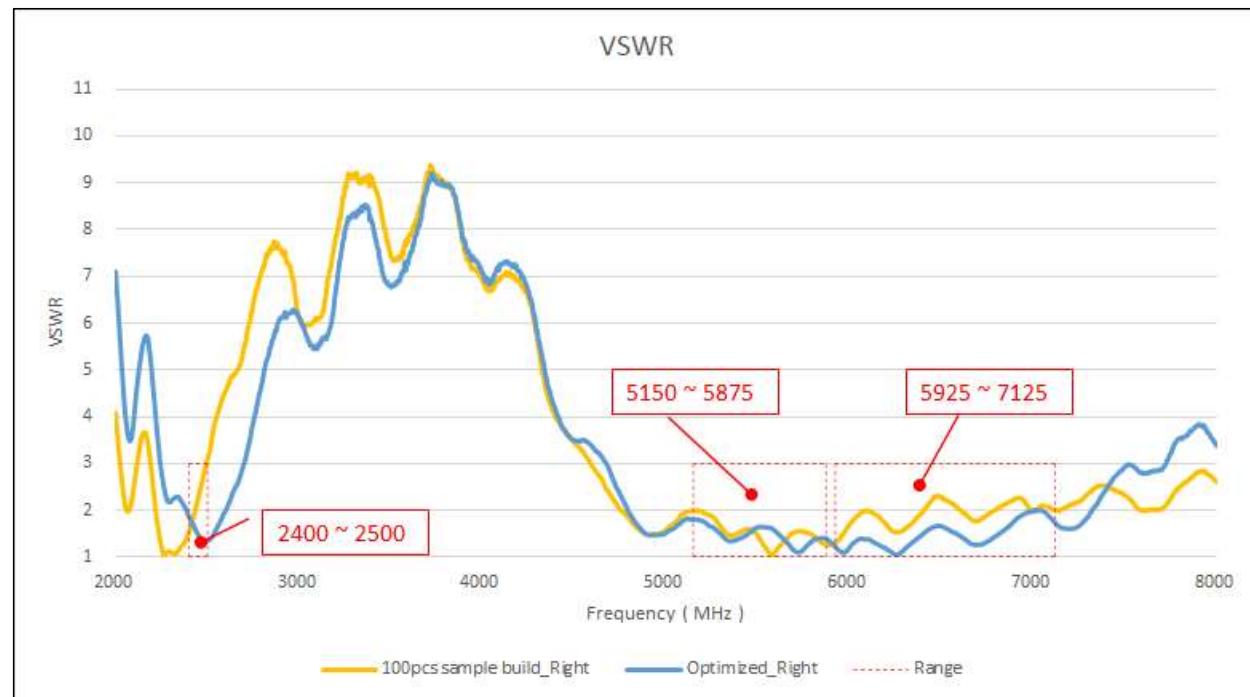
EVERY CONNECTION COUNTS

Compare VSWR for WiFi 6E Left – 100pcs Sample Vs Optimized



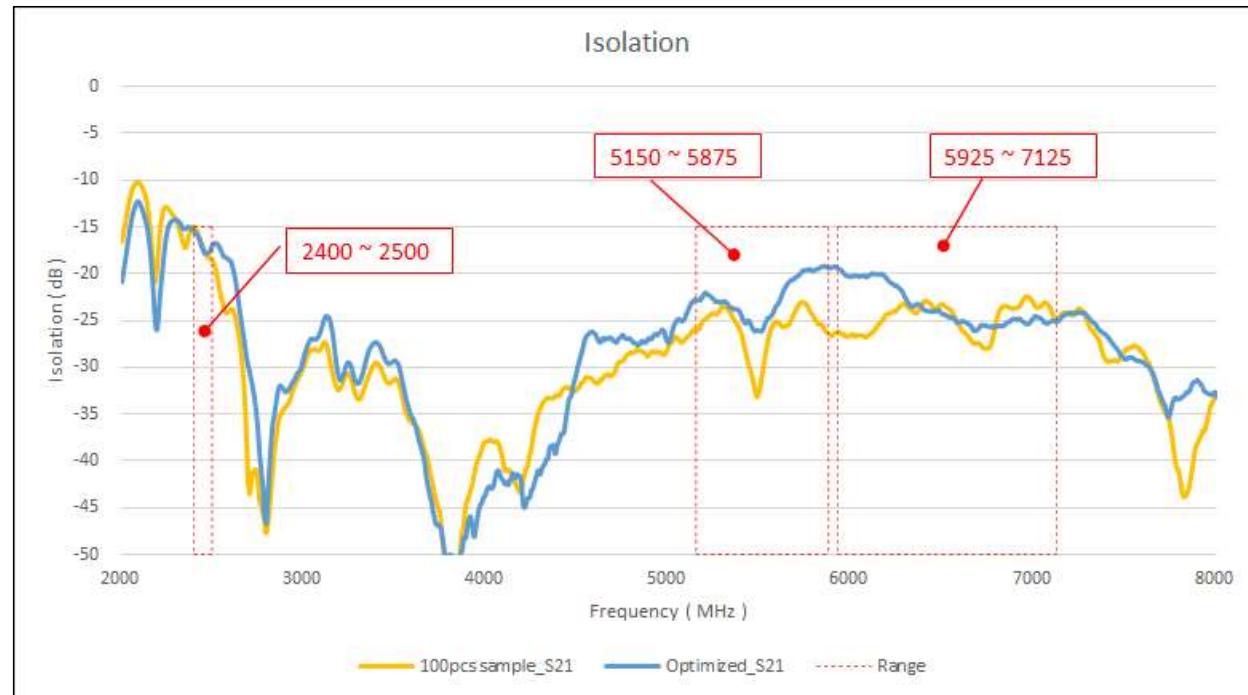
The optimized antenna VSWR is below 2 in all frequency band

Compare VSWR for WiFi 6E Right – 100pcs Sample Vs Optimized



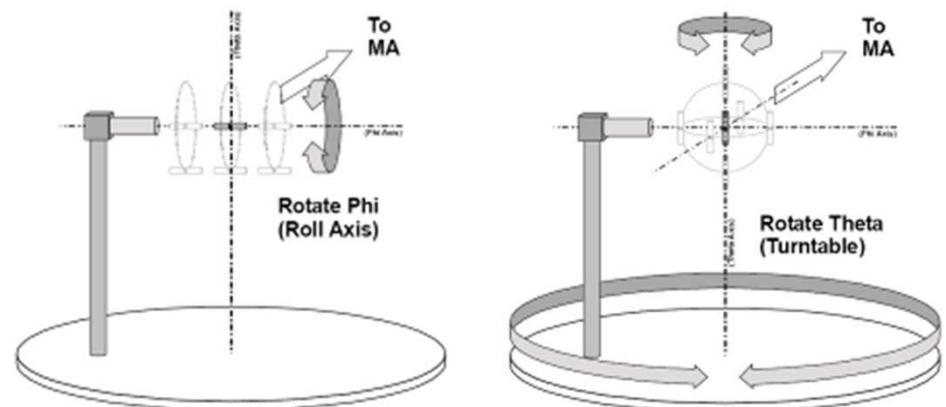
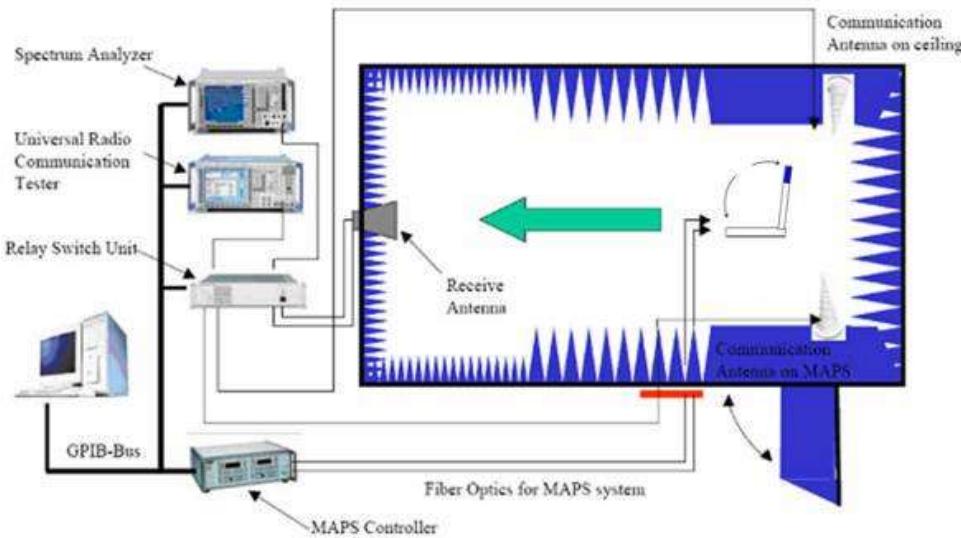
The optimized antenna VSWR is below 2 in all frequency band

Compare WiFi6E left and right Isolation – 100pcs Sample Vs Optimized



The isolation is similar. Both meet the spec of <15dB

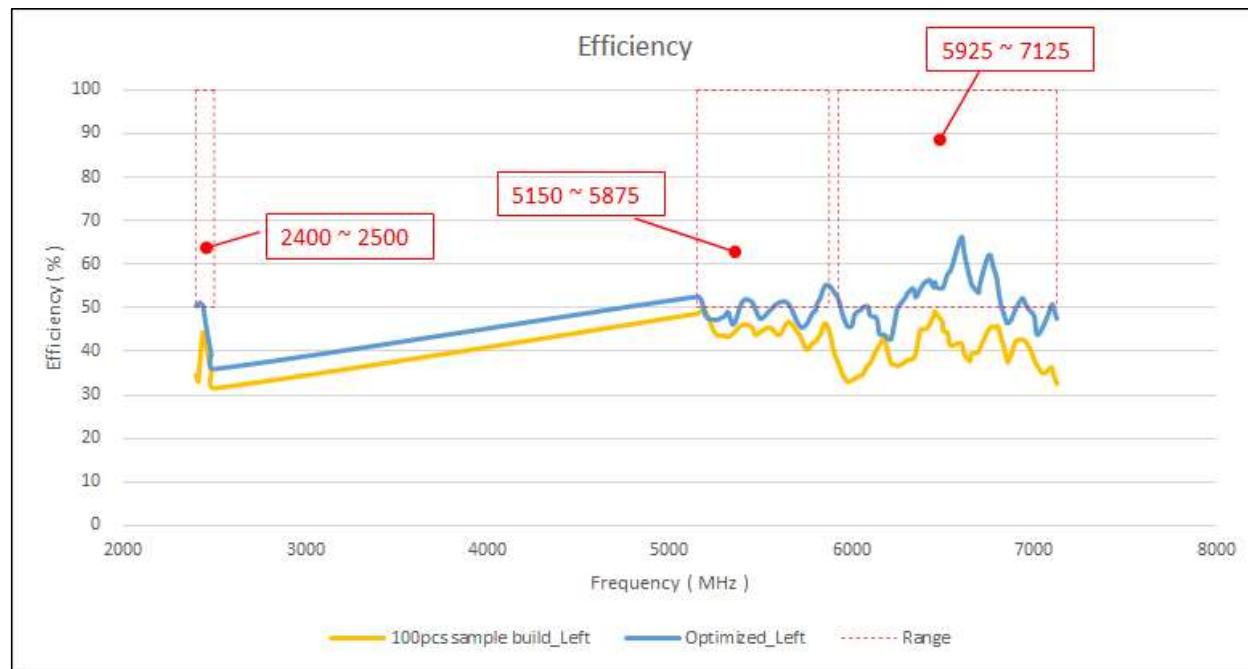
Testing Condition



Antenna Gain Test Setup

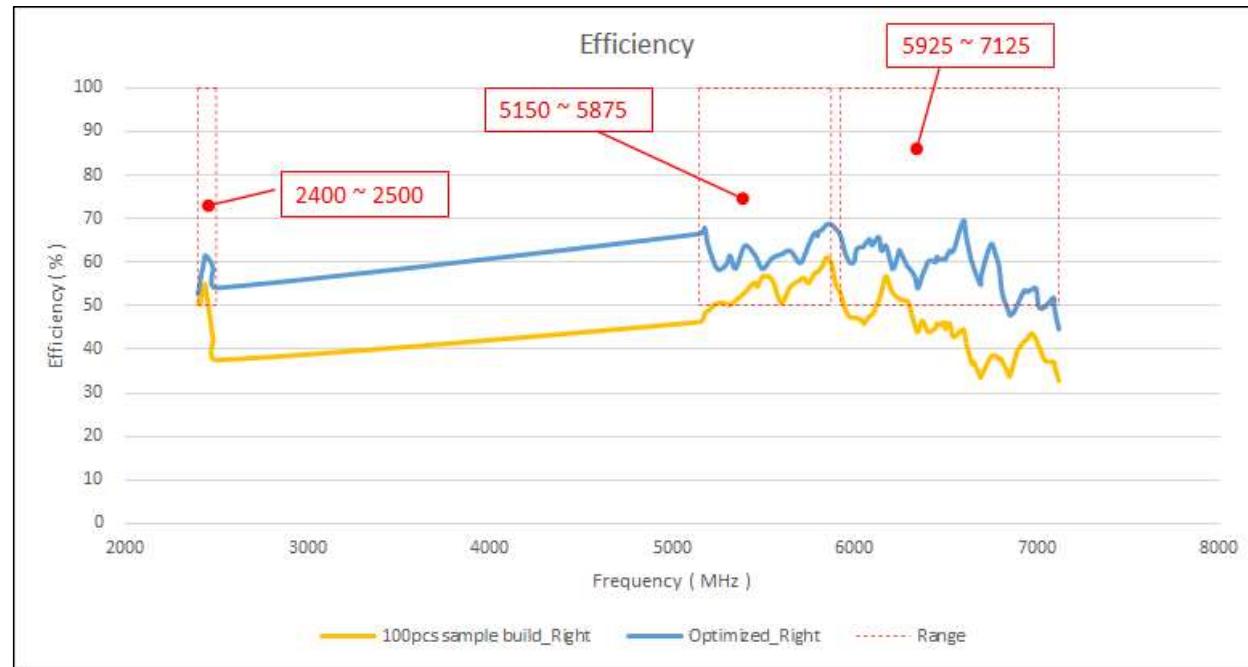
Antenna test in 3'rd party chamber.

Compare Efficiency for WiFi 6E Left – 100pcs Samples Vs Optimized



Optimized antenna efficiency is average about 10% (1dB) better across the frequency range

Compare Efficiency for WiFi 6E Right – 100pcs Sample Vs Optimized

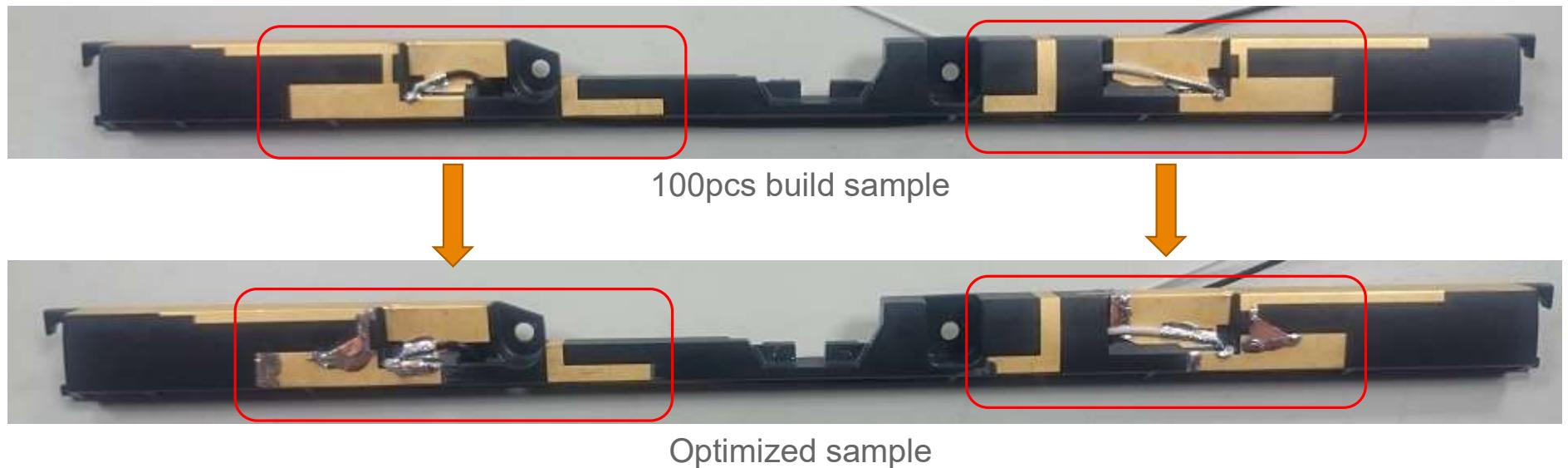


Optimized antenna efficiency is average about 15% (1.5dB) better across the frequency range

TEST RESULT / CONCLUSION

The optimized antenna performance is about 10% and 15% better in antenna efficiency and the VSWR is below 2.

Pictures below show the changes in pattern to optimized the antenna performance.



WHEN
TECHNOLOGY
CONNECTS,
SO DOES HUMANITY.

EVERY CONNECTION COUNTS

