IV. CONCLUSIONS

Subcarrier randomization is one of security method which applied on MIMO-OFDM wireless communication. This security method can secure information data from an eavesdropper. Subcarrier randomization needs synchronization to know the position of the randomized subcarrier. We use RSA algorithm for synchronization. Synchronization using the RSA algorithm not only helps to know the randomized subcarrier position on the receiver but also overcomes the phenomenon of CFO and STO. This is proven because the average packet loss is minimal in a MIMO-OFDM system with security is 0.145%.

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