## CLAIMS

1. A method of wireless communication by a transmitter, the method comprising:

generating, by the transmitter, a reference signal having a non-constant envelope which is used for nonlinearity estimation by a receiver, wherein the generating the reference signal comprises modulating the reference signal to have a first dynamic range, the first dynamic range being higher than a second dynamic range of another signal having a constant envelope;

transmitting, by the transmitter, the reference signal;

receiving, from the receiver, feedback associated with the nonlinearity estimation; and

performing at least one digital pre-distortion (DPD) operation based on the feedback, wherein the performance of the at least one DPD operation based on the feedback comprises adjusting one or more coefficients associated with at least one of a high-power amplifier (HPA) or a digital to analog converter (DAC).

2. The method of claim 1, wherein the reference signal comprises a primary synchronization signal.

3. The method of claim 2, wherein the primary synchronization signal is based on a Zadoff-Chu sequence.

4. The method of claim 1, wherein the reference signal comprises one of a short training sequence (STS) or a guard interval (GI).

5. The method of claim 1, wherein the reference signal comprises a preamble having the non-constant envelope.

6. An apparatus for wireless communication, the apparatus comprising: a memory; and at least one processor coupled to the memory and configured to:

generate a reference signal having a non-constant envelope which is used for nonlinearity estimation by a receiver, wherein the generation of the reference signal comprises modulation of the reference signal to have a first dynamic range, the first dynamic range being higher than a second dynamic range of another signal having a constant envelope;

transmit the reference signal;

receive, from the receiver, feedback associated with the nonlinearity estimation; and

perform at least one digital pre-distortion (DPD) operation based on the feedback, wherein the performance of the at least one DPD operation based on the feedback comprises adjustment of one or more coefficients associated with at least one of a high-power amplifier (HPA) or a digital to analog converter (DAC).

7. The apparatus of claim 6, wherein the reference signal comprises a primary synchronization signal.

8. The apparatus of claim 7, wherein the primary synchronization signal is based on a Zadoff-Chu sequence.

9. The apparatus of claim 6, wherein the reference signal comprises one of a short training sequence (STS) or a guard interval (GI).

10. The apparatus of claim 6, wherein the reference signal comprises a preamble having the non-constant envelope.

11. An apparatus for wireless communication, the apparatus comprising:

means for generating a reference signal having a non-constant envelope which is used for nonlinearity estimation by a receiver, wherein the means for generating is configured to modulate the reference signal to have a first dynamic range, the first dynamic range being higher than a second dynamic range of another signal having a constant envelope;

means for transmitting the reference signal;

means for receiving, from the receiver, feedback associated with the nonlinearity estimation; and

means for performing at least one digital pre-distortion (DPD) operation based on the feedback, wherein the means for performing the at least one DPD operation based on the feedback is configured to adjust one or more coefficients associated with at least one of a high-power amplifier (HPA) or a digital to analog converter (DAC).

12. The apparatus of claim 11, wherein the reference signal comprises a primary synchronization signal.

13. The apparatus of claim 12, wherein the primary synchronization signal is based on a Zadoff-Chu sequence.

14. The apparatus of claim 11, wherein the reference signal comprises one of a short training sequence (STS) or a guard interval (GI).

15. The apparatus of claim 11, wherein the reference signal comprises a preamble having the non-constant envelope.

16. A non-transitory, computer-readable medium storing computer-executable code for wireless communication by a transmitter, comprising code to execute the method of any one of claims 1 to 5.