

IV. CONCLUSION

We analyzed the effect of the linearization technique that uses baseband signals of the 2nd order nonlinearity adequately shaped and processed in magnitude and phase in baseband and then modulate the 2nd harmonic of the fundamental useful signal carrier. The linearization signals formed in this way are then inserted at the input and output of the main amplifier of DPA (linearization method 1) as well as at the output of the main and auxiliary amplifier of DPA (linearization method 2). The linearization was performed for the 5G FBMC signal.

It can be concluded that very acceptable improvement in adjacent channels power was achieved by applying the proposed linearization technique. On the bases of the obtained results, it can be noticed that the 2nd method provides slightly better results for higher power than the application of the 1st method.

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