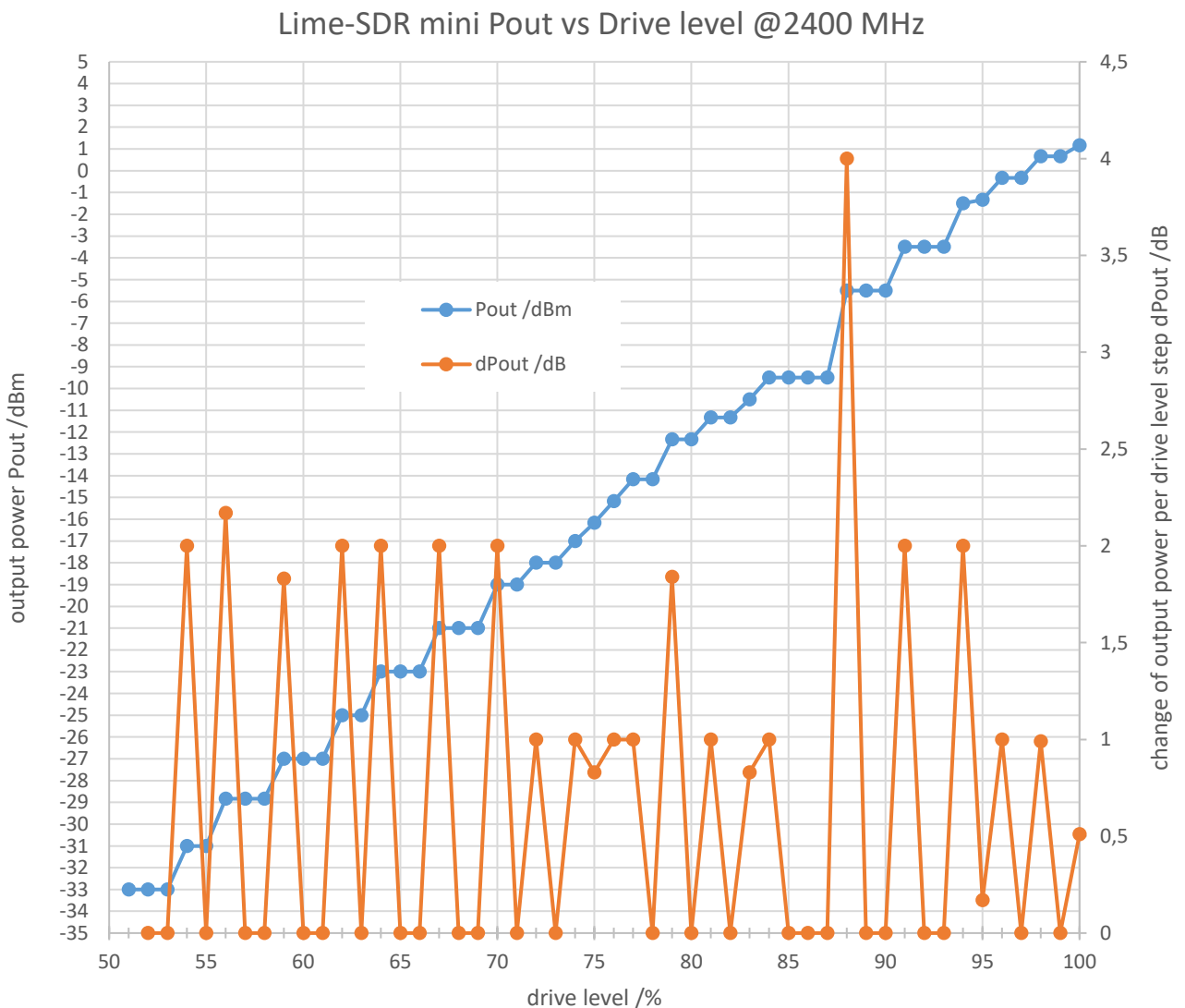


LimeSDR mini TX output power at 2.4 GHz

Ole OZ2OE and Matthias DD1US, November 20th 2019

The LimeSDR mini with the software SDR-Radio is generally a good solution to work Qatar-OSCAR 100.

Ole OZ2OE measured the output power of his LimeSDR mini at 2.4 GHz as function of the drive level as adjusted in SDR-Console version 3.0.17. He was kind enough to provide me his data and I generated the graph below.



As can be seen the maximum output power of his unit is +1.2dBm. The output power can be reduced to -33dBm when changing the drive level in SDR-Console from 100% to 51%. This should be sufficient for most applications. Please note, that the change of output power is not constant for all drive level steps. Some steps do not change the output power at all while other steps change the output power up to 4dB. The resolution of the setup used for the power measurements has a resolution of 0.17dB (1/6 dB).

We are very interested, whether other LimeSDR minis show the same characteristic. If you have data or feedback please send them to us. In addition, if you have any questions, we will be happy to answer them by Email.

Best regards

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