

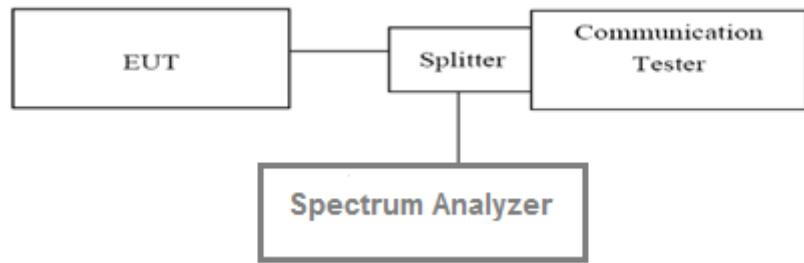
## 4.4. Band Edge compliance

### LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

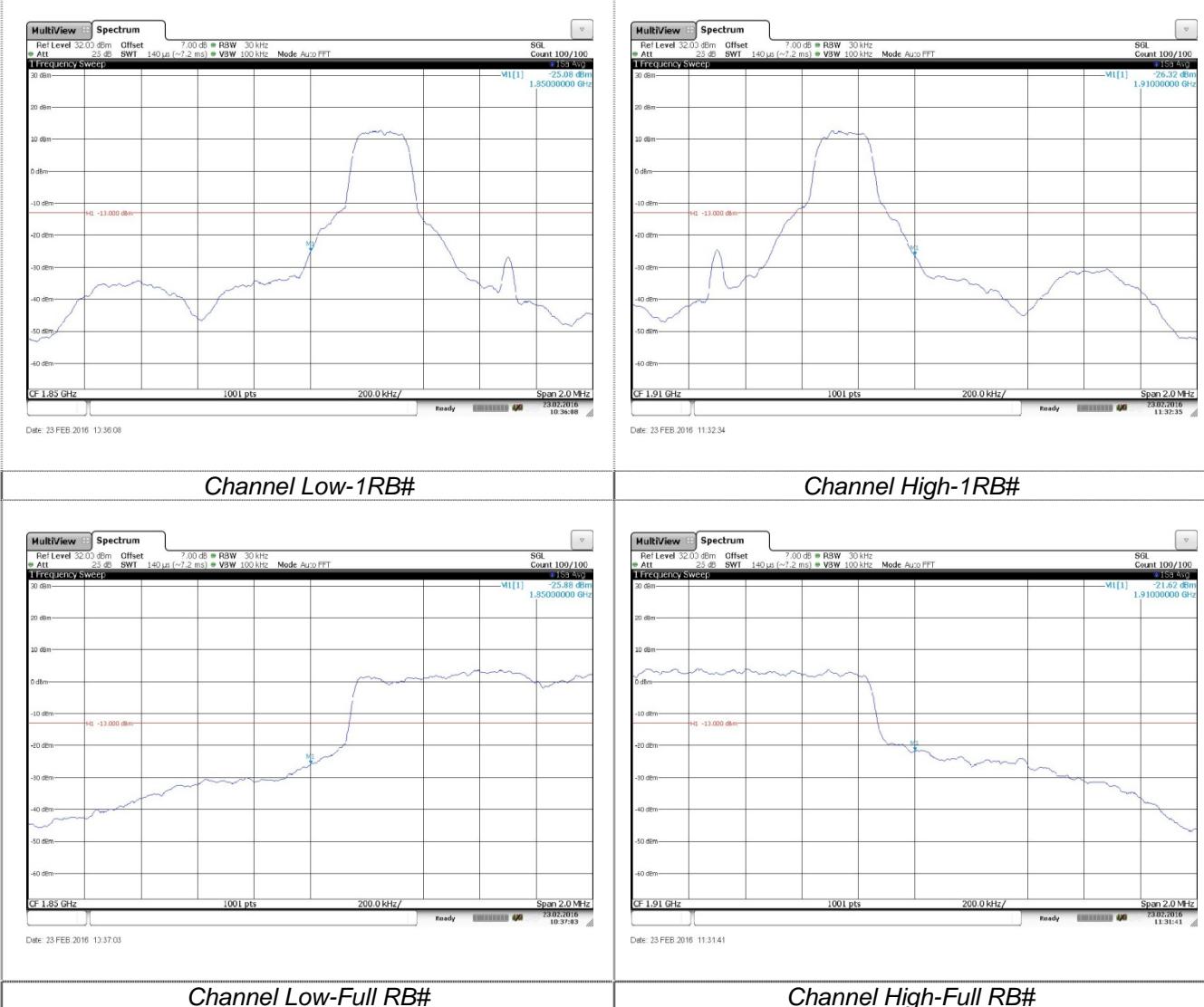
### TEST CONFIGURATION

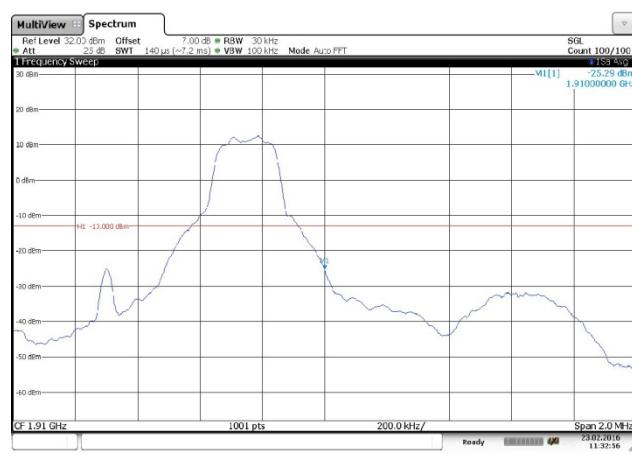
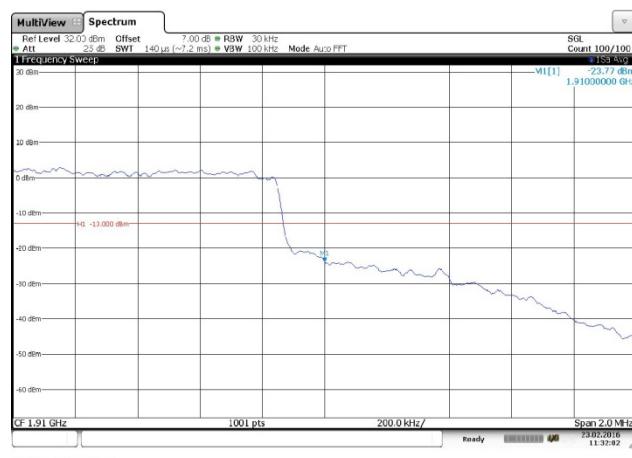


### TEST PROCEDURE

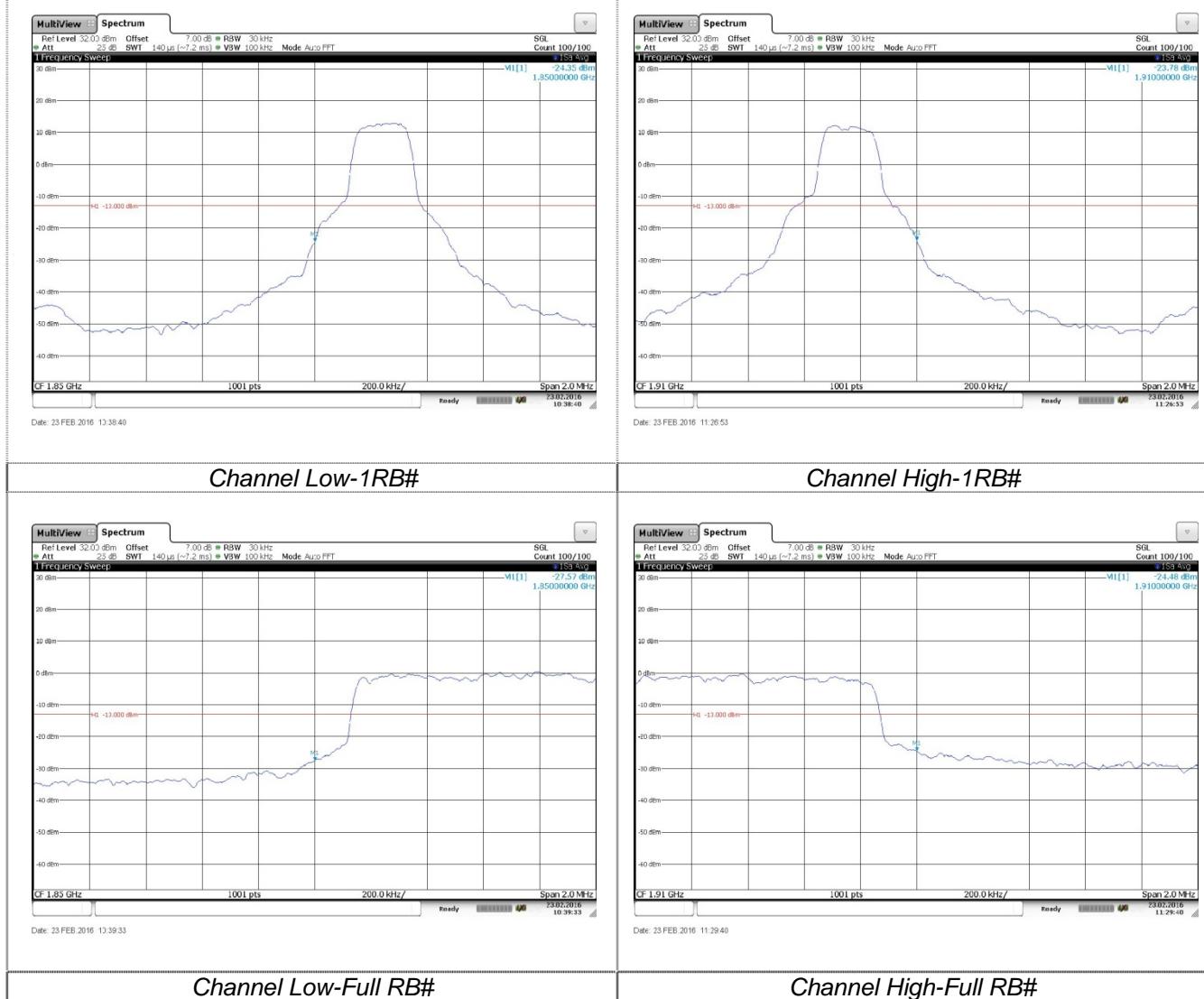
1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW>= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with RMS detector.

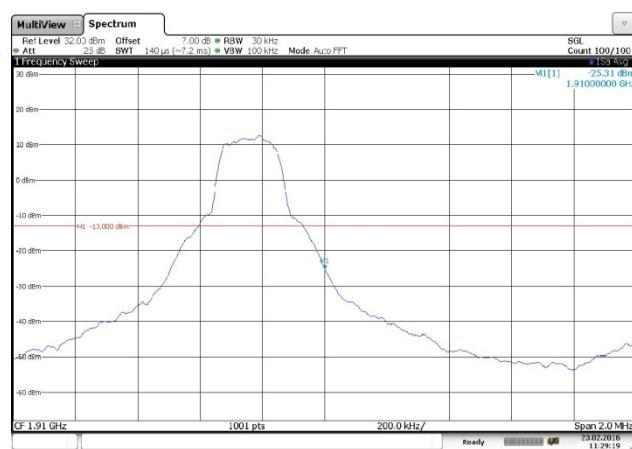
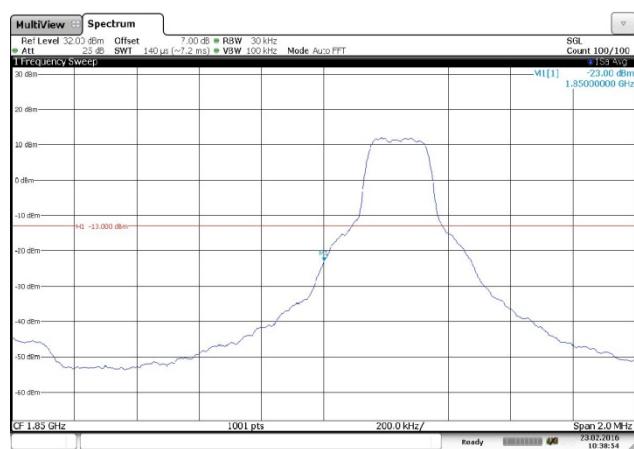
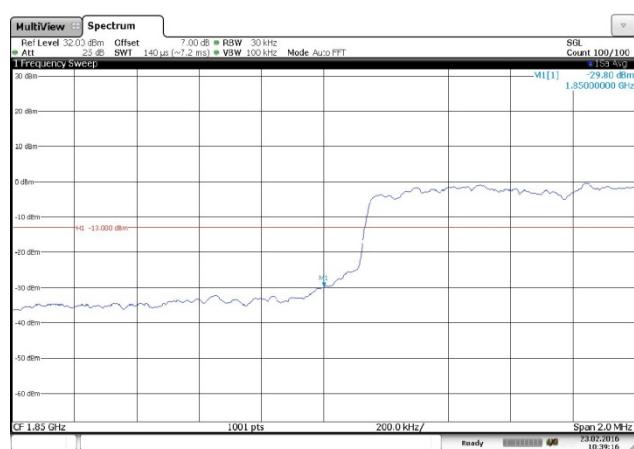
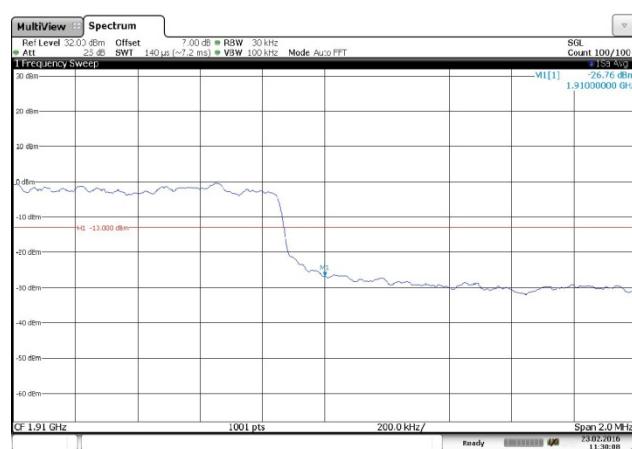
### TEST RESULTS

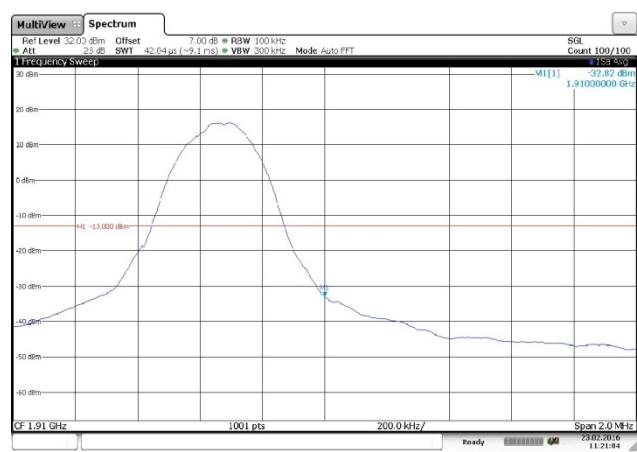
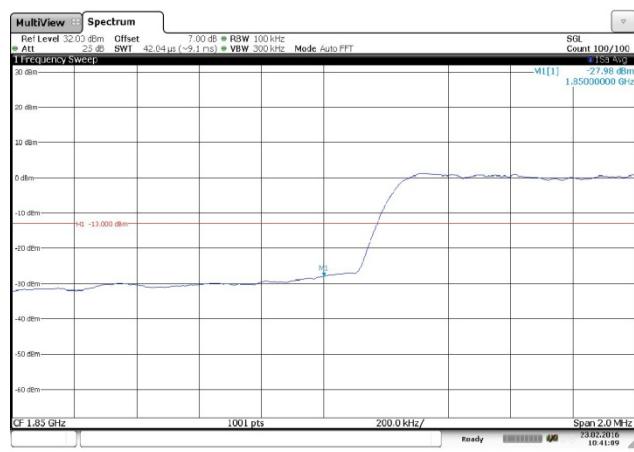
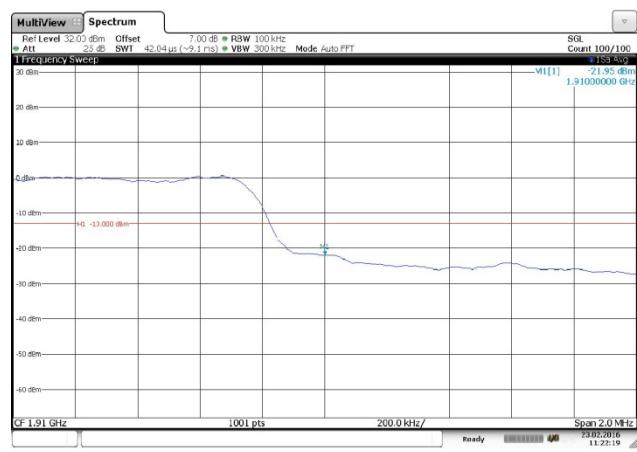
*LTE Band 2-1.4MHz-QPSK*

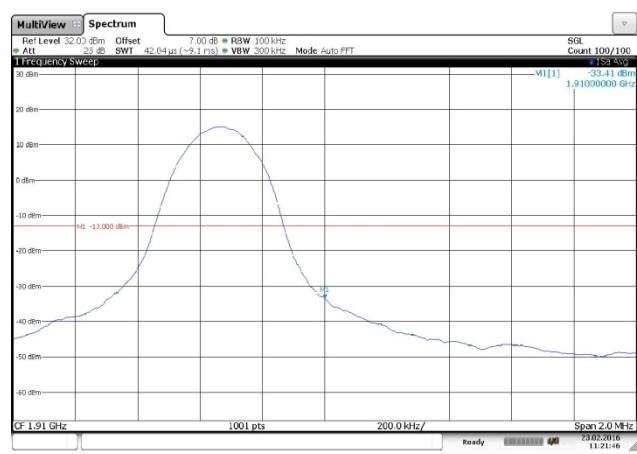
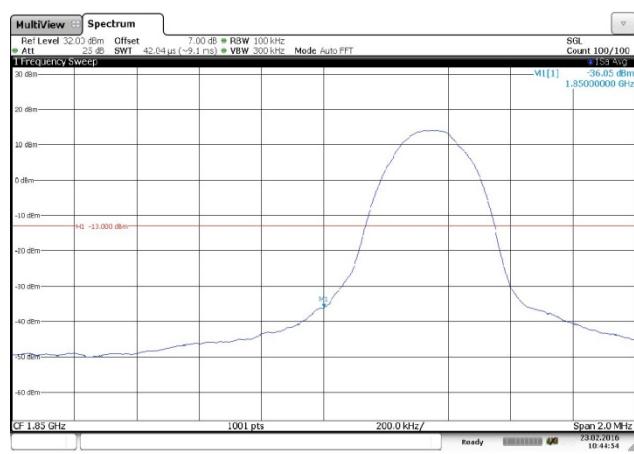
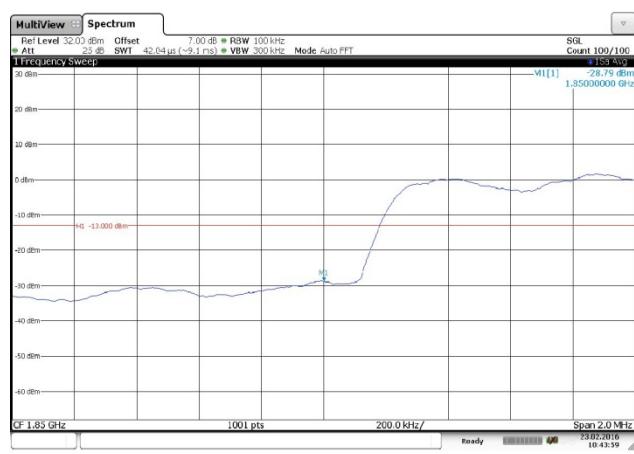
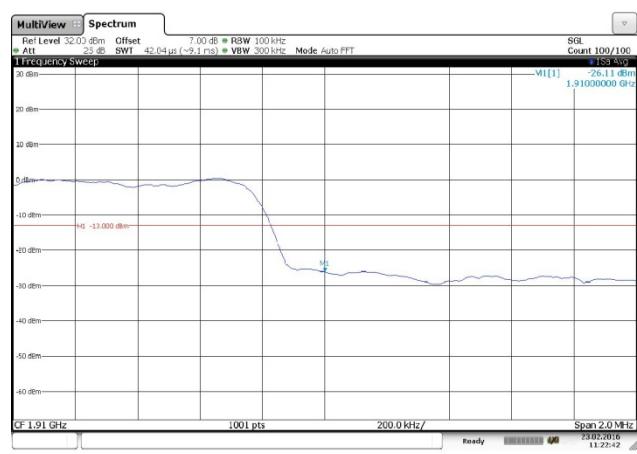
**LTE Band 2-1.4MHz-16QAM****Channel Low-1RB#****Channel High-1RB#****Channel Low-Full RB#****Channel High-Full RB#**

## LTE Band 2-3MHz-QPSK

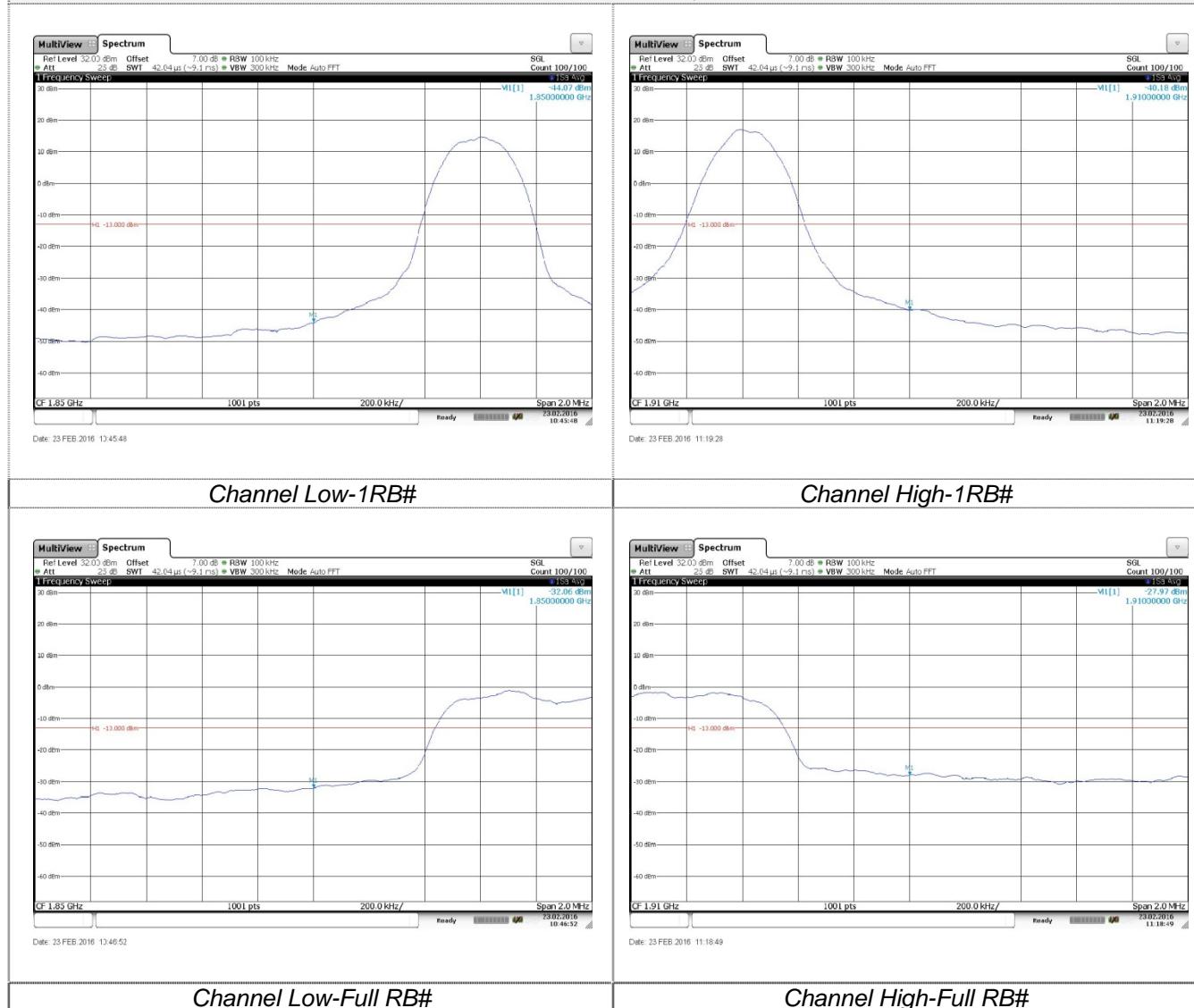


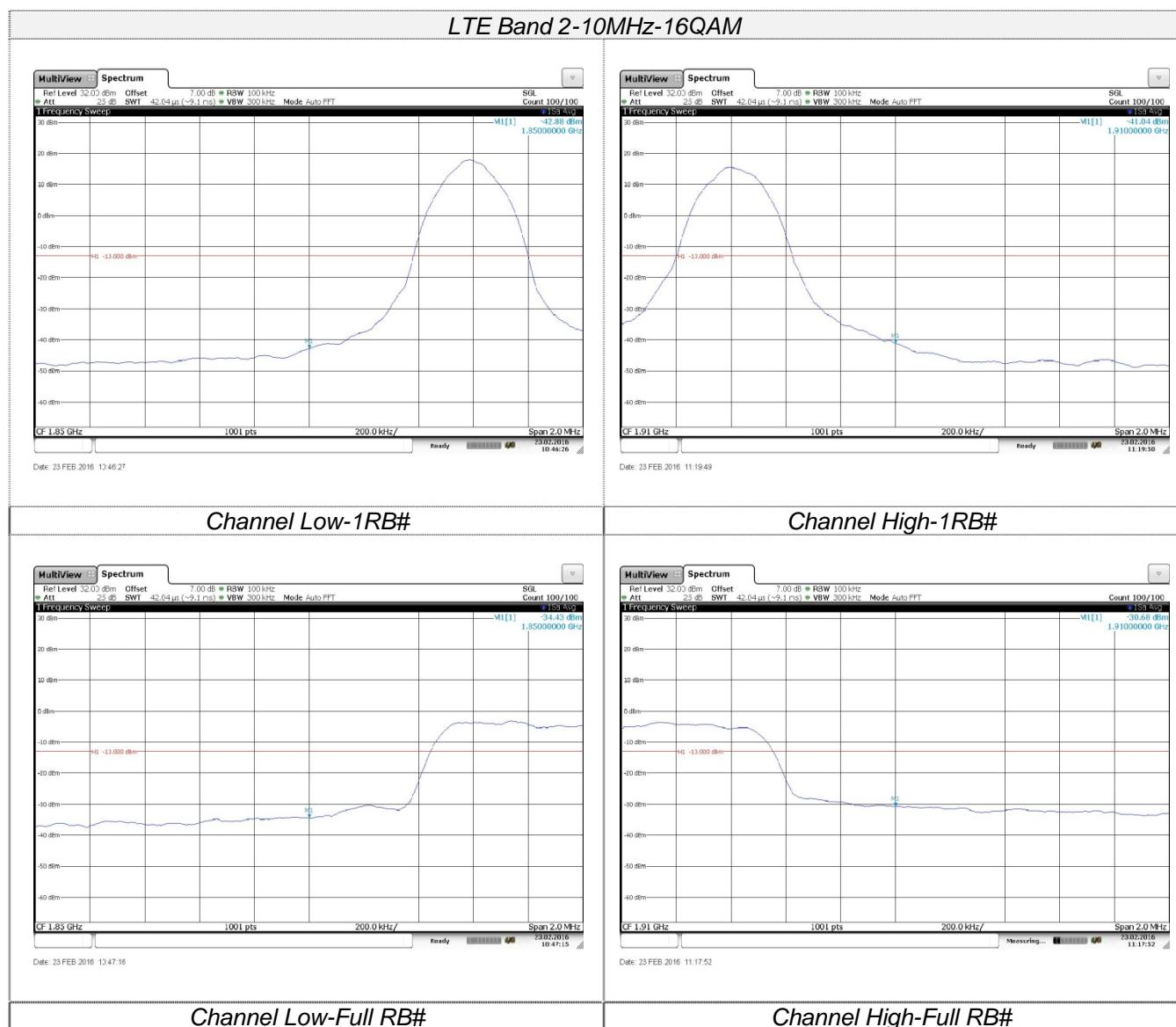
**LTE Band 2-3MHz-16QAM****Channel Low-1RB#****Channel High-1RB#****Channel Low-Full RB#****Channel High-Full RB#**

**LTE Band 2-5MHz-QPSK****Channel Low-1RB#****Channel High-1RB#****Channel Low-Full RB#****Channel High-Full RB#**

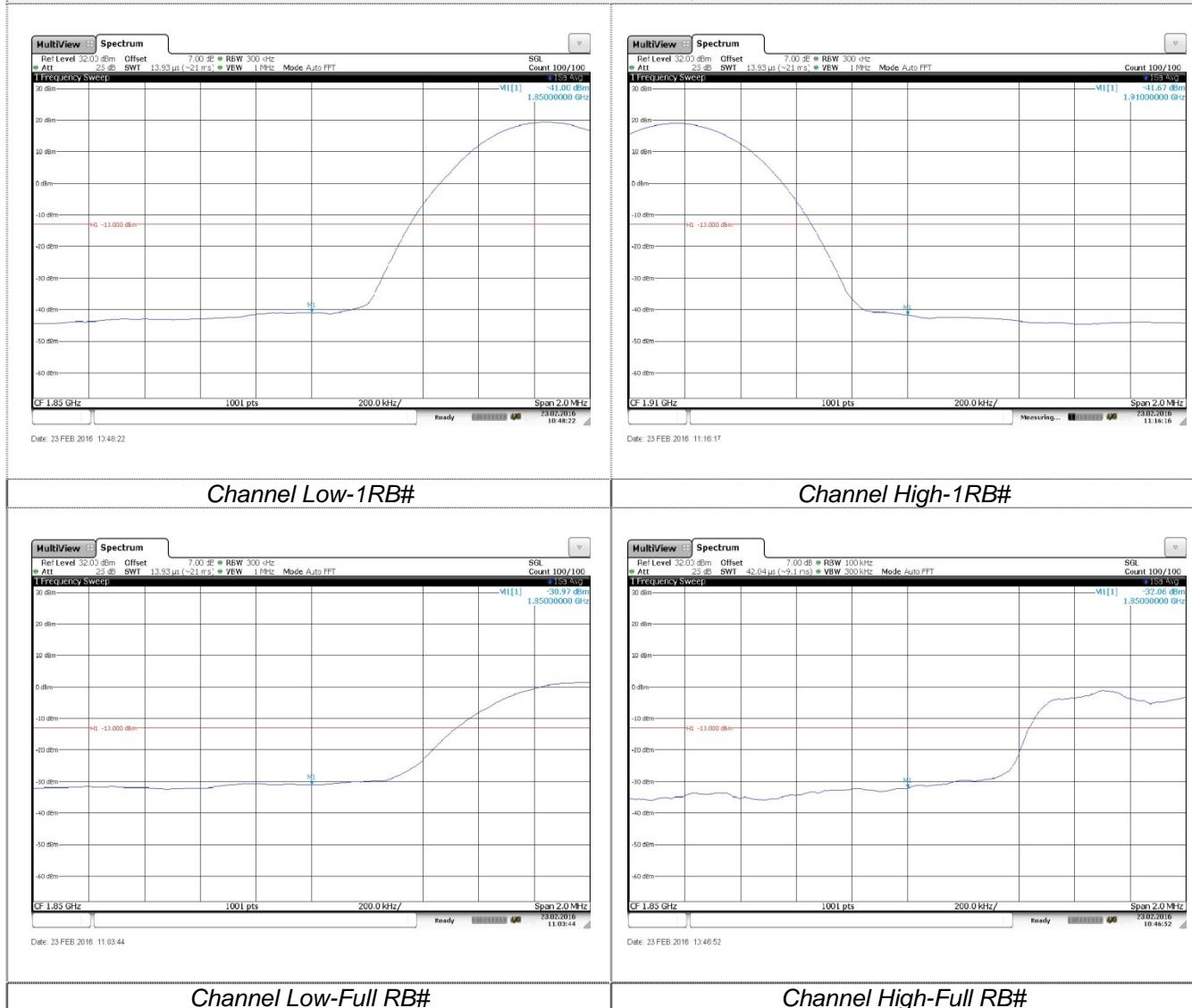
**LTE Band 2-5MHz-16QAM****Channel Low-1RB#****Channel High-1RB#****Channel Low-Full RB#****Channel High-Full RB#**

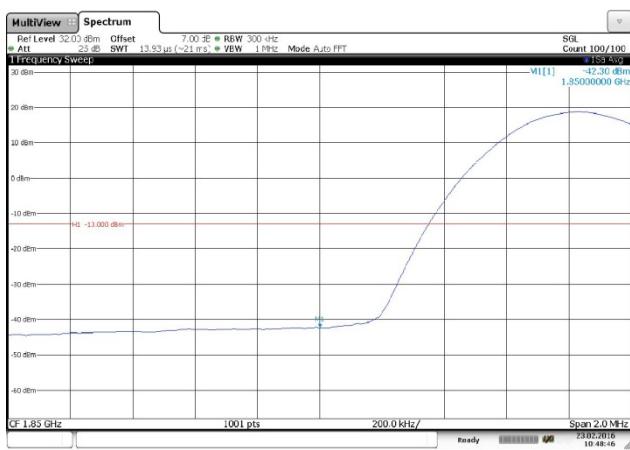
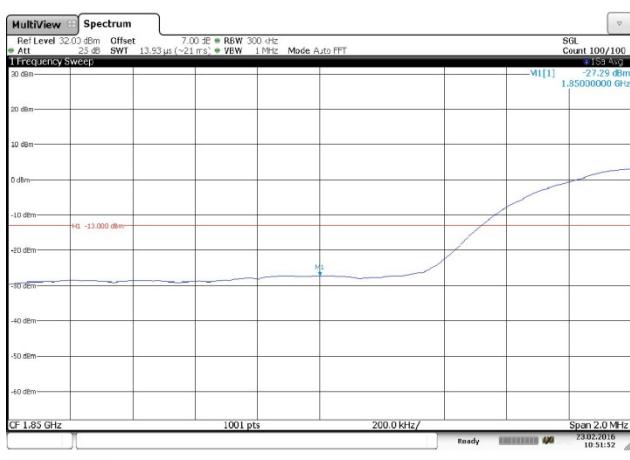
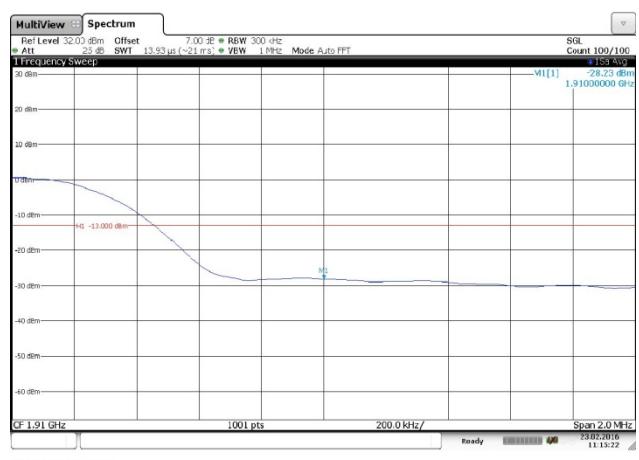
## LTE Band 2-10MHz-QPSK





## LTE Band 2-15MHz-QPSK



**LTE Band 2-15MHz-16QAM****Channel Low-1RB#****Channel High-1RB#****Channel Low-Full RB#****Channel High-Full RB#**