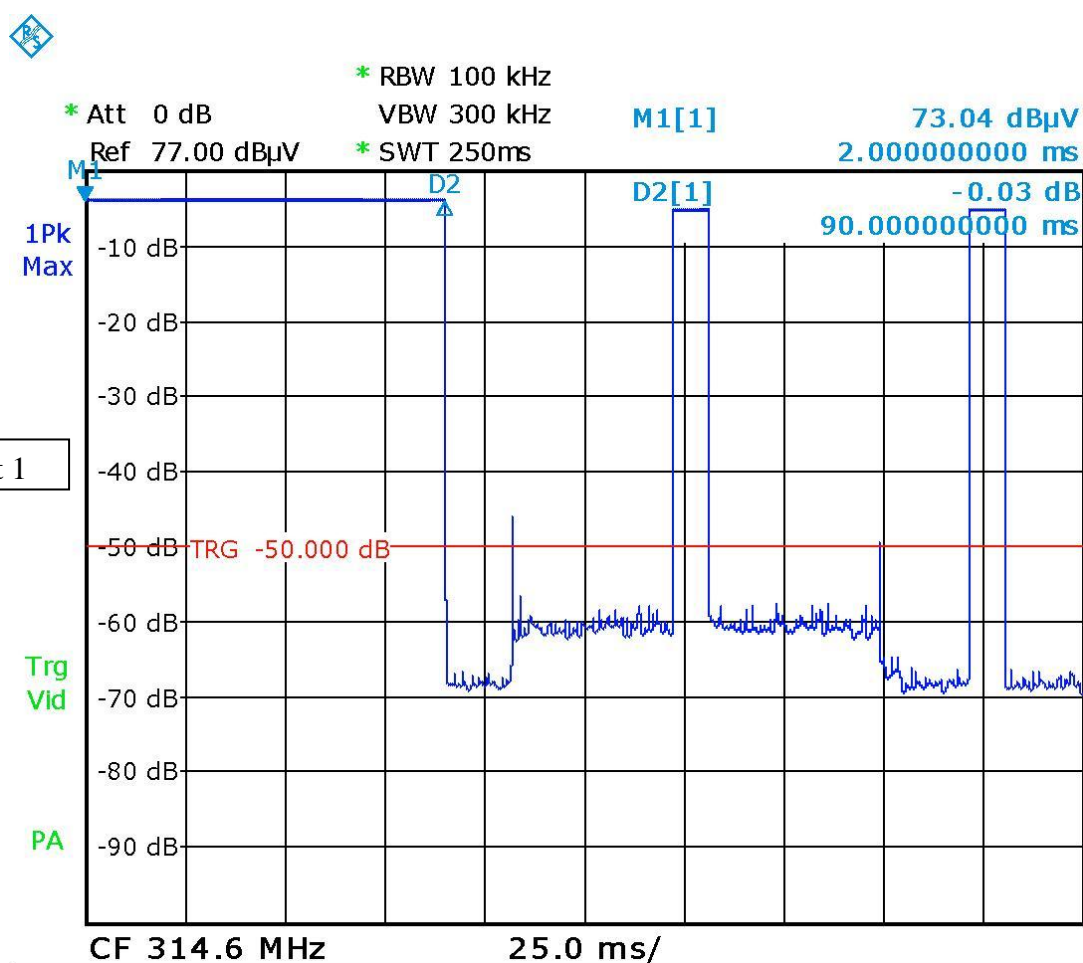


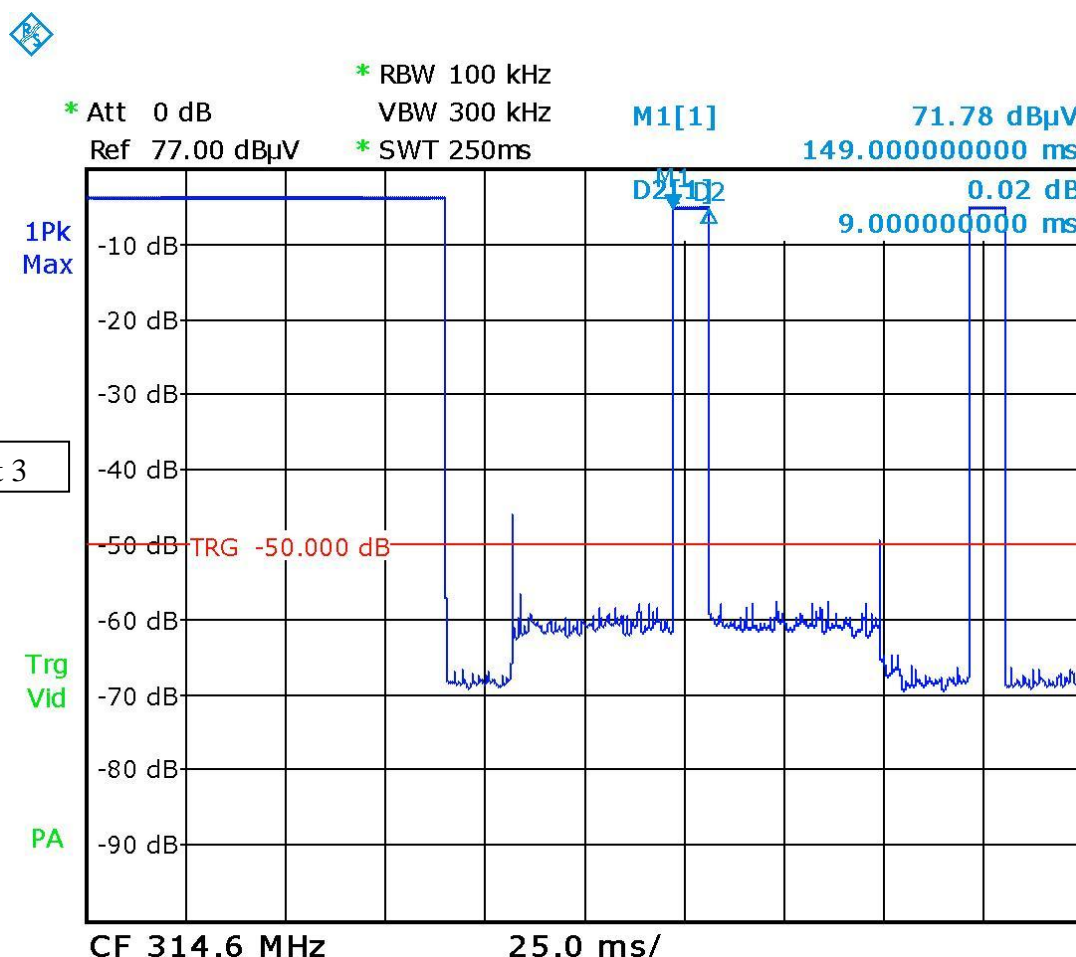
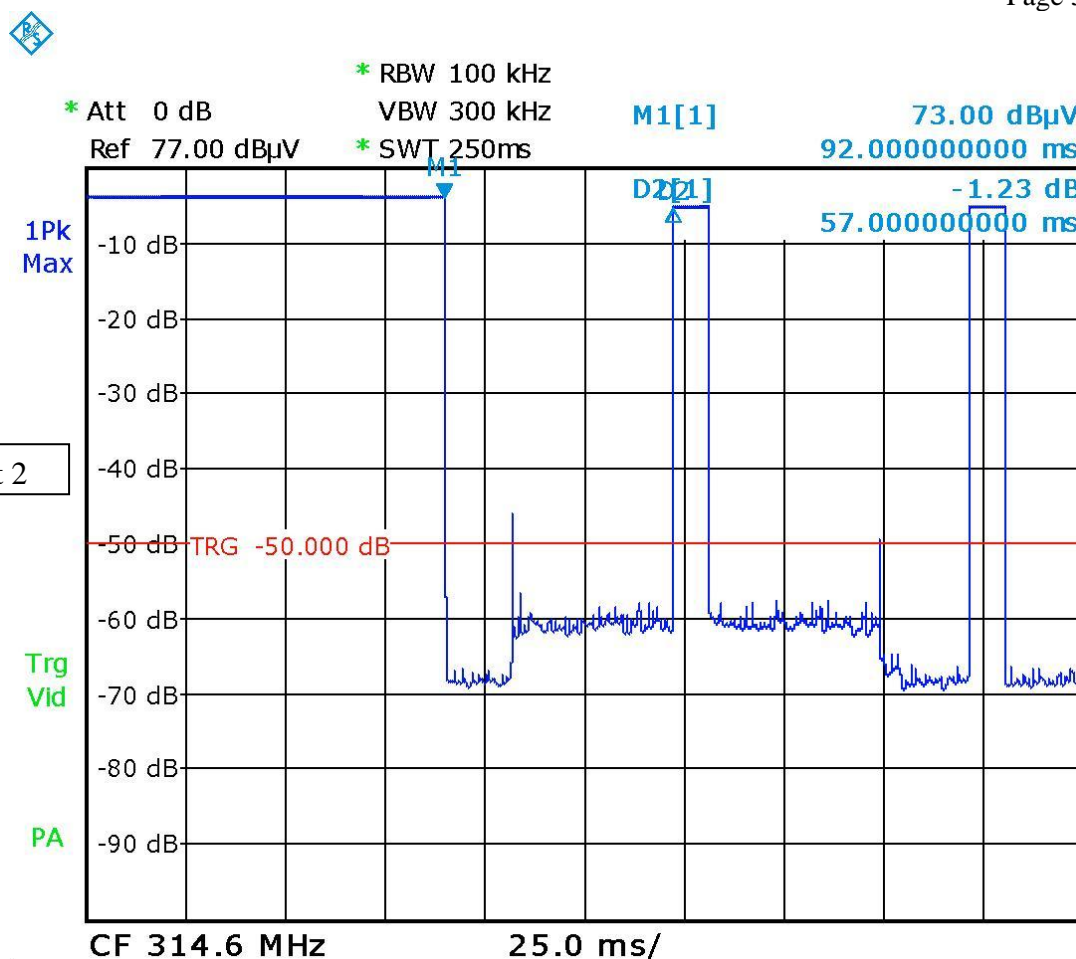
## **Periodic operation characteristics**

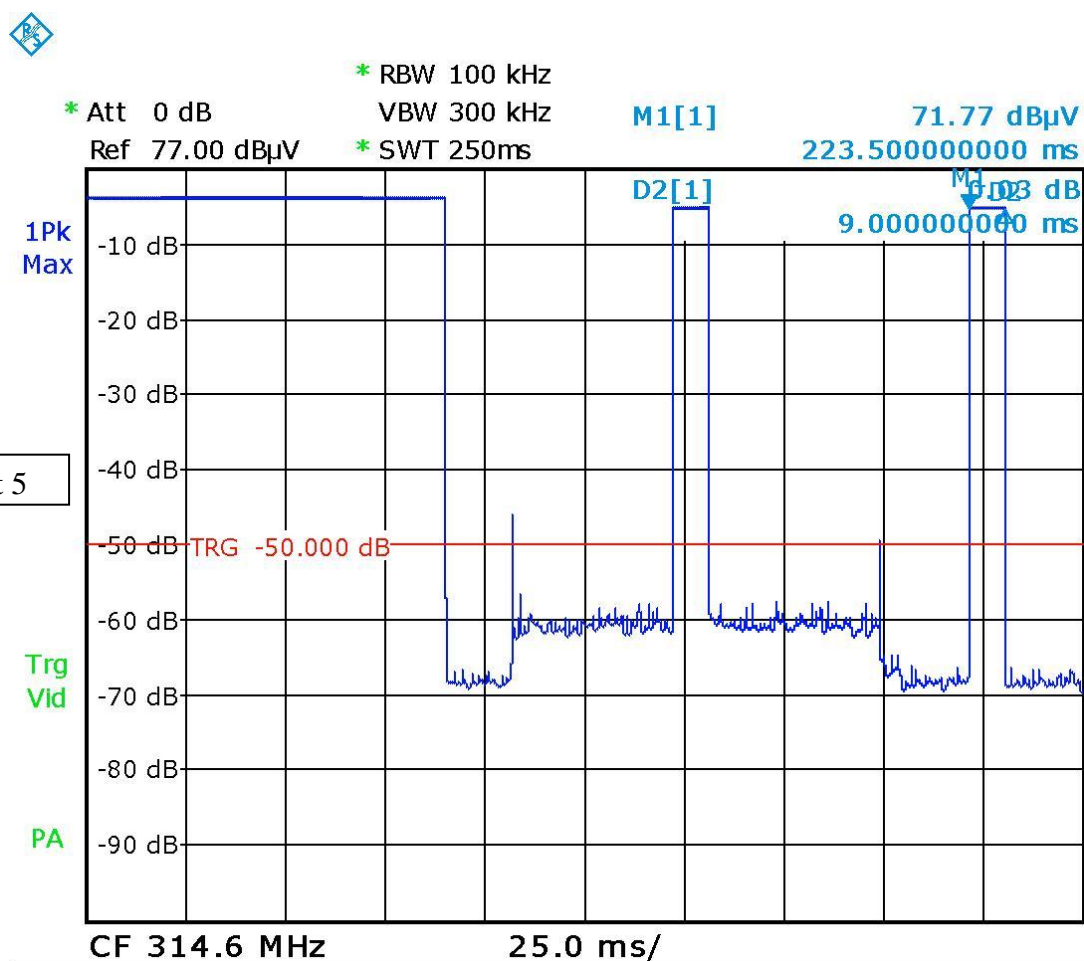
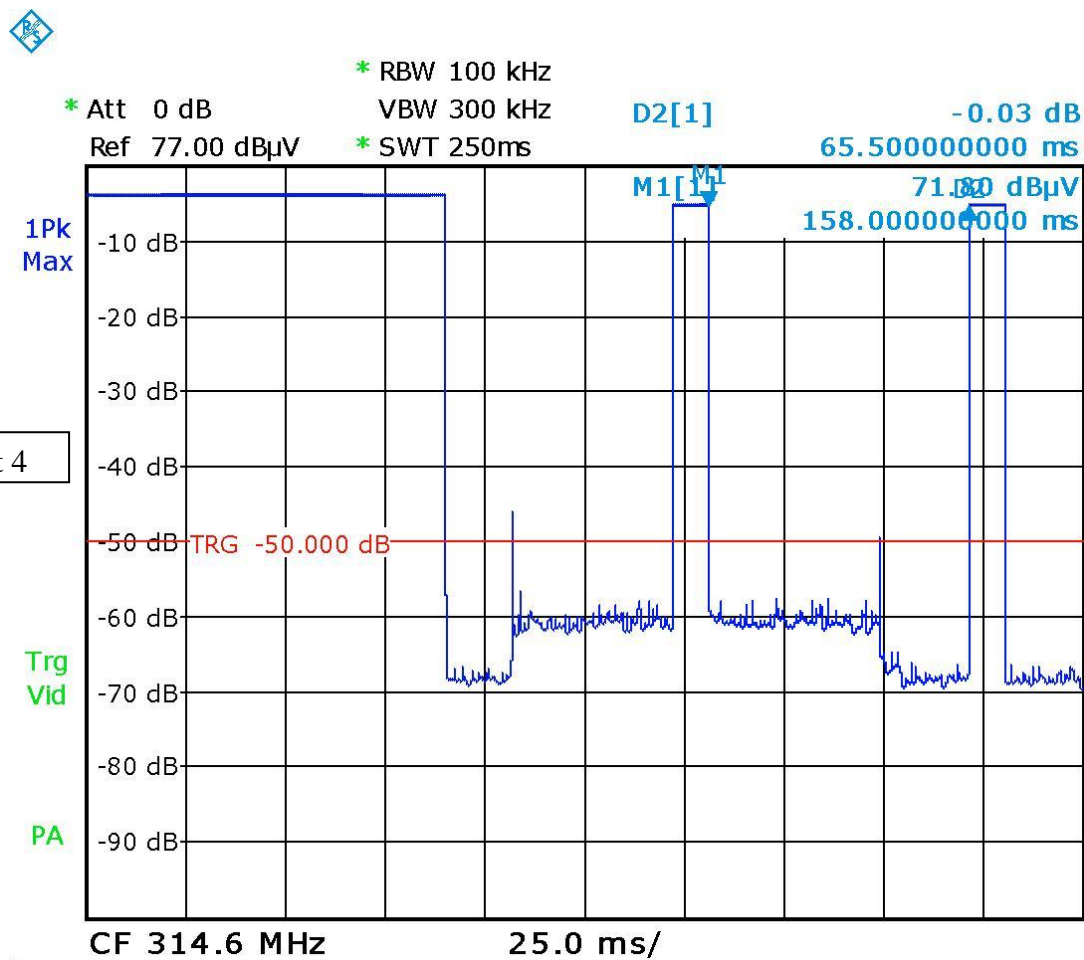
**5WK49963**

(a) The provisions of this Section are restricted to periodic operation within the band 40.66 - 40.70 MHz and above 70 MHz. Except as shown in paragraph (e) of this Section, the intentional radiator is restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Continuous transmissions, voice, video and the radio control of toys are not permitted. Data is permitted to be sent with a control signal. The following conditions shall be met to comply with the provisions for this periodic operation:

(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

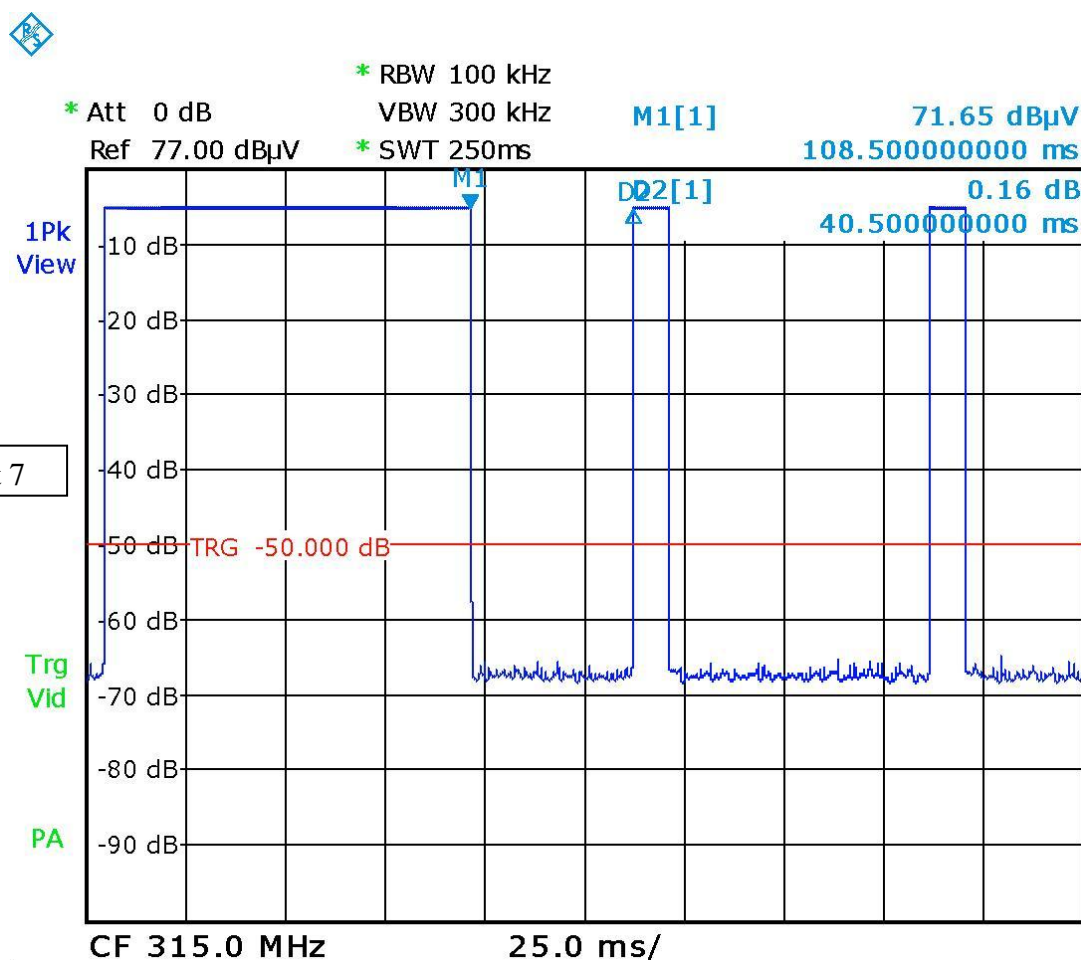
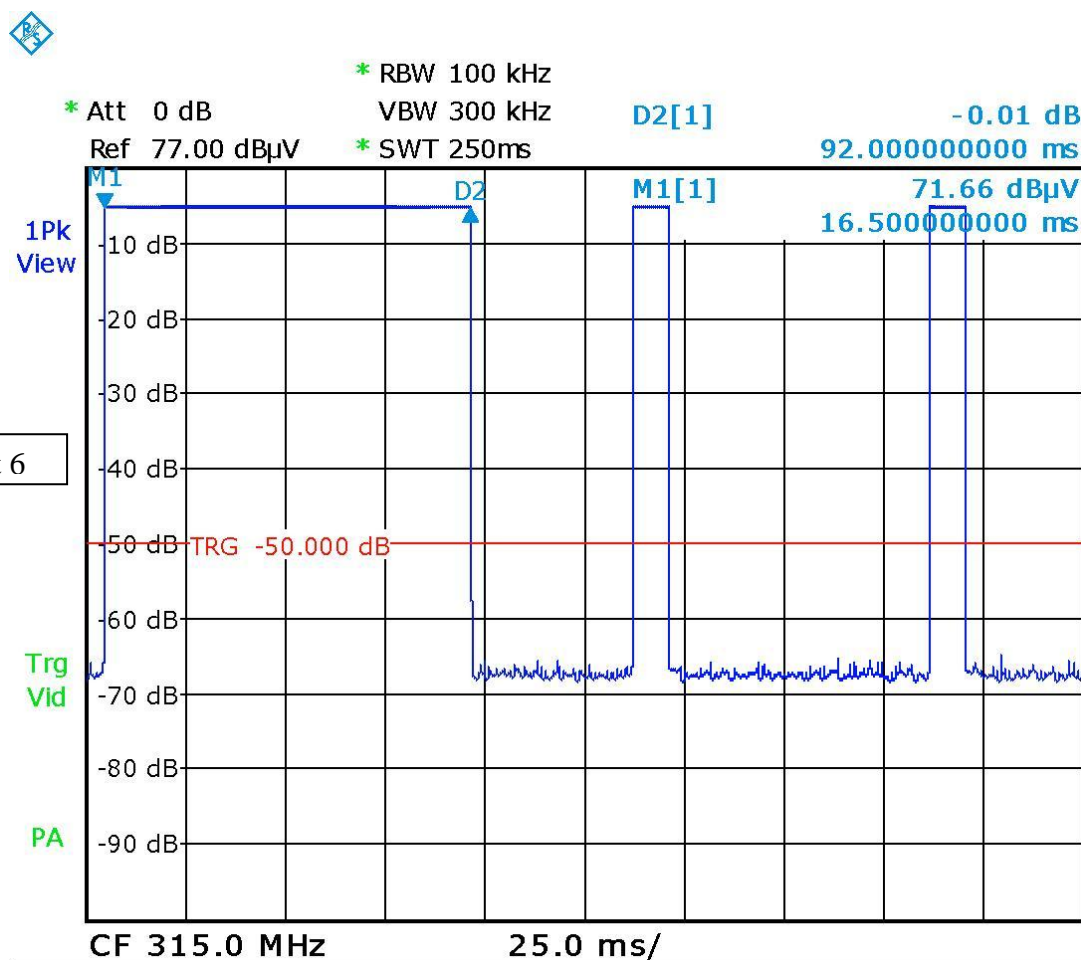


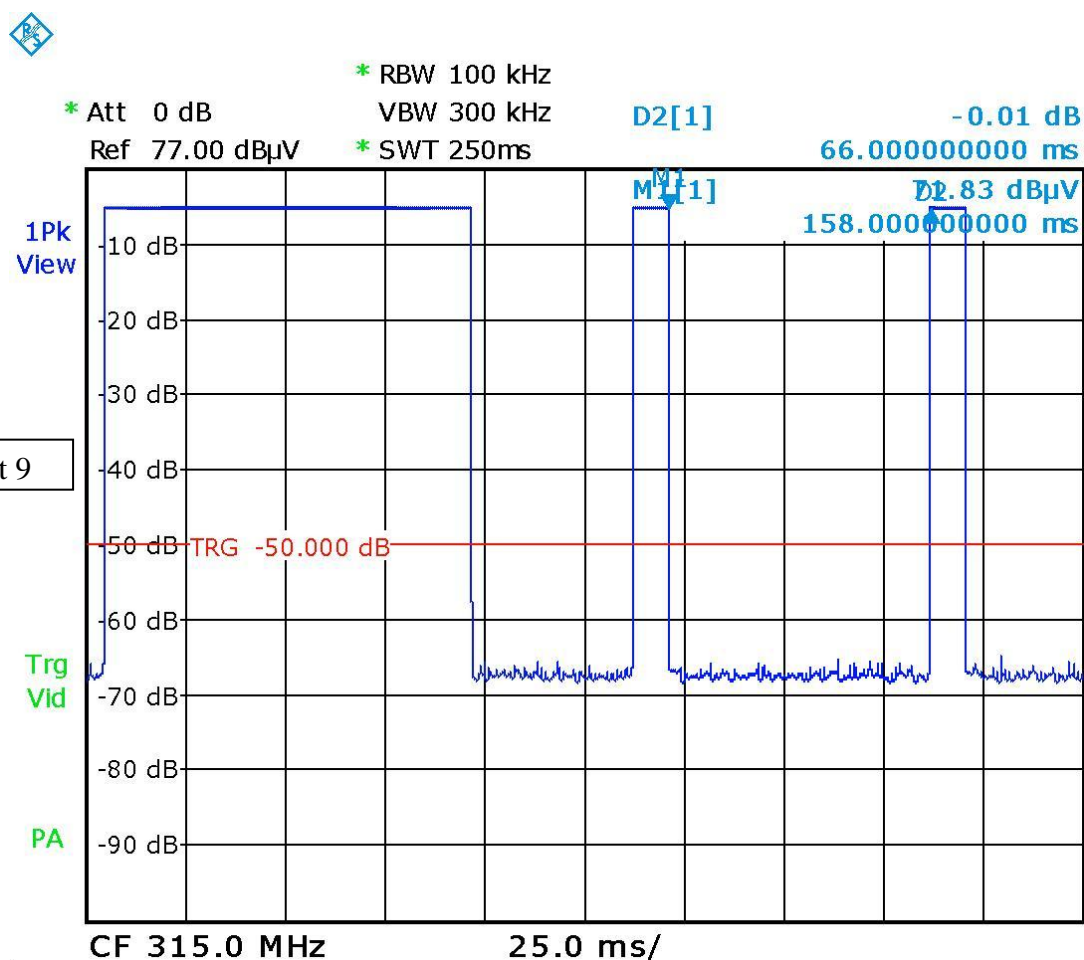
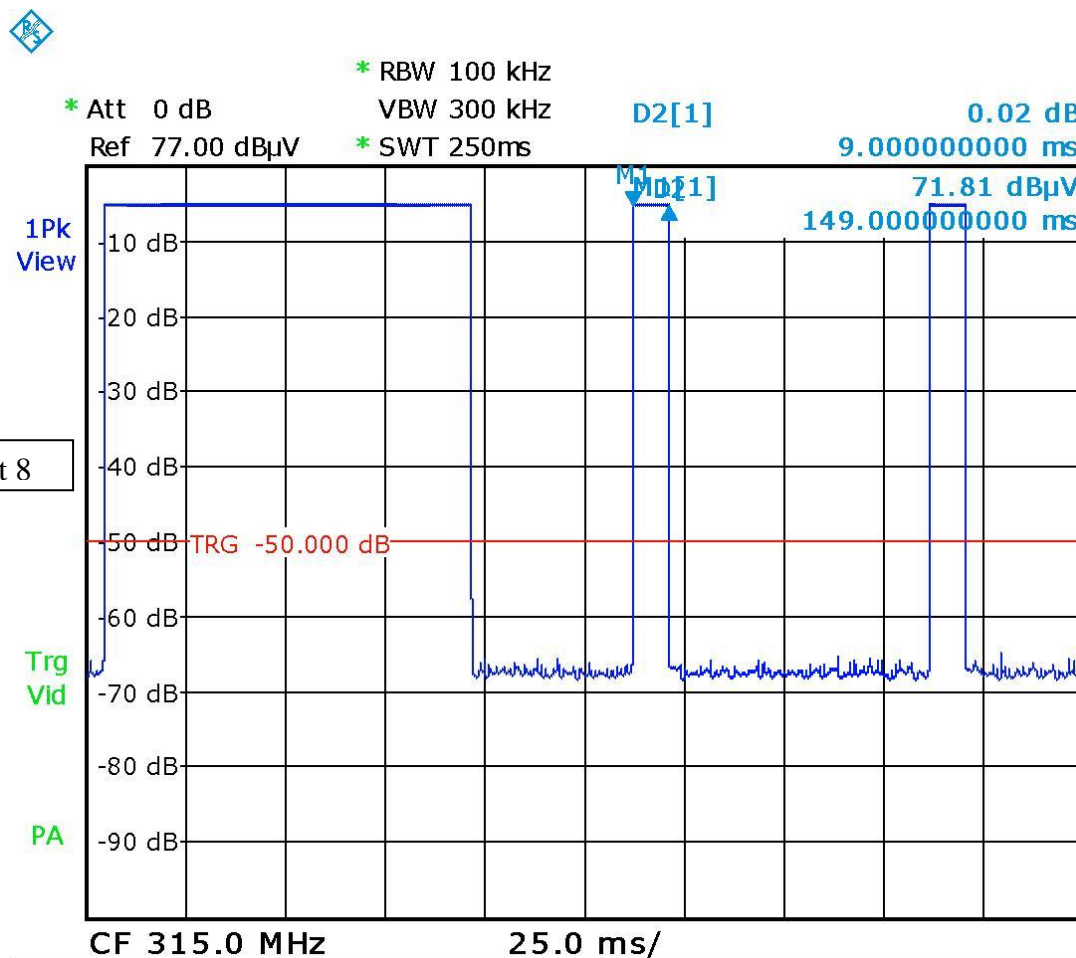


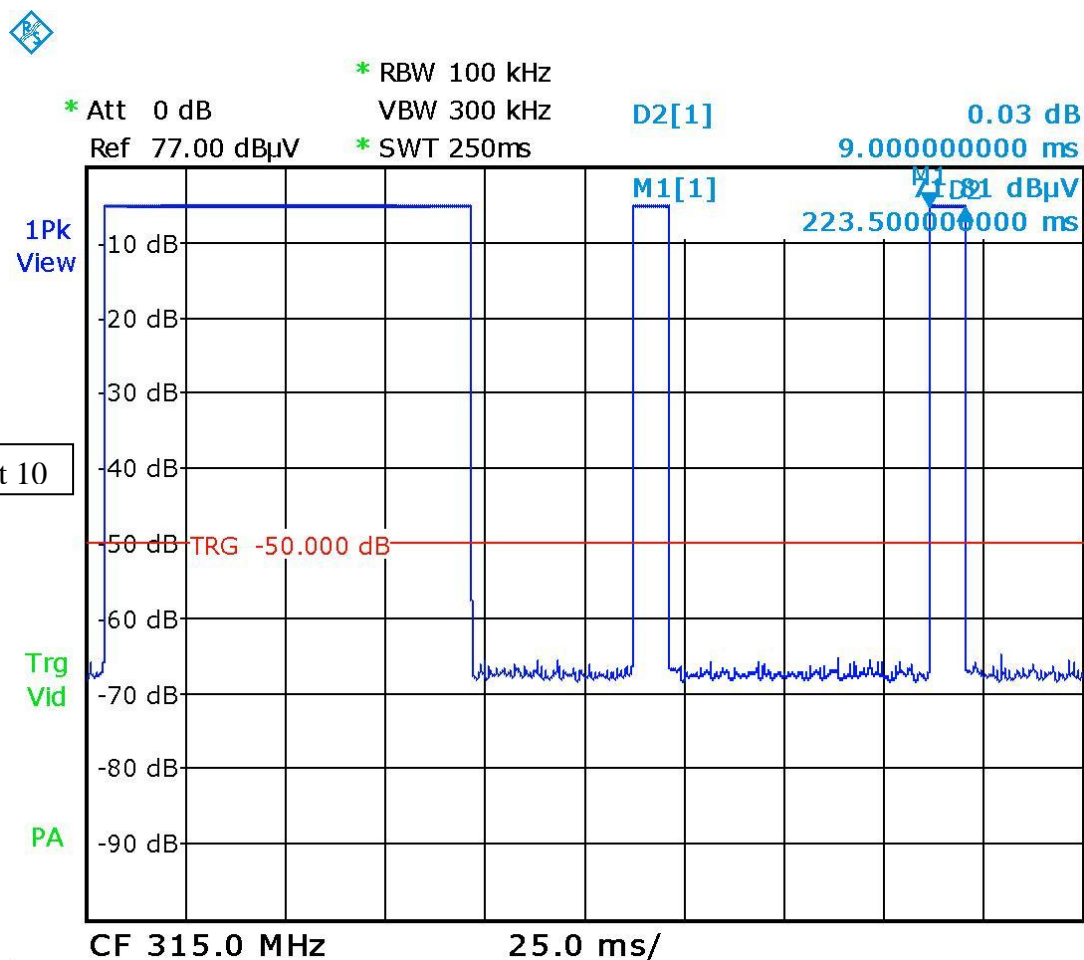


**Screen shot 1 to 5 shows the transmitter transmission times of the lower channel after release an button and the following "comfort telegrams" after the successful car units acknowledge.**

**The total transmission time for this operating mode is shorter than 250 ms!**



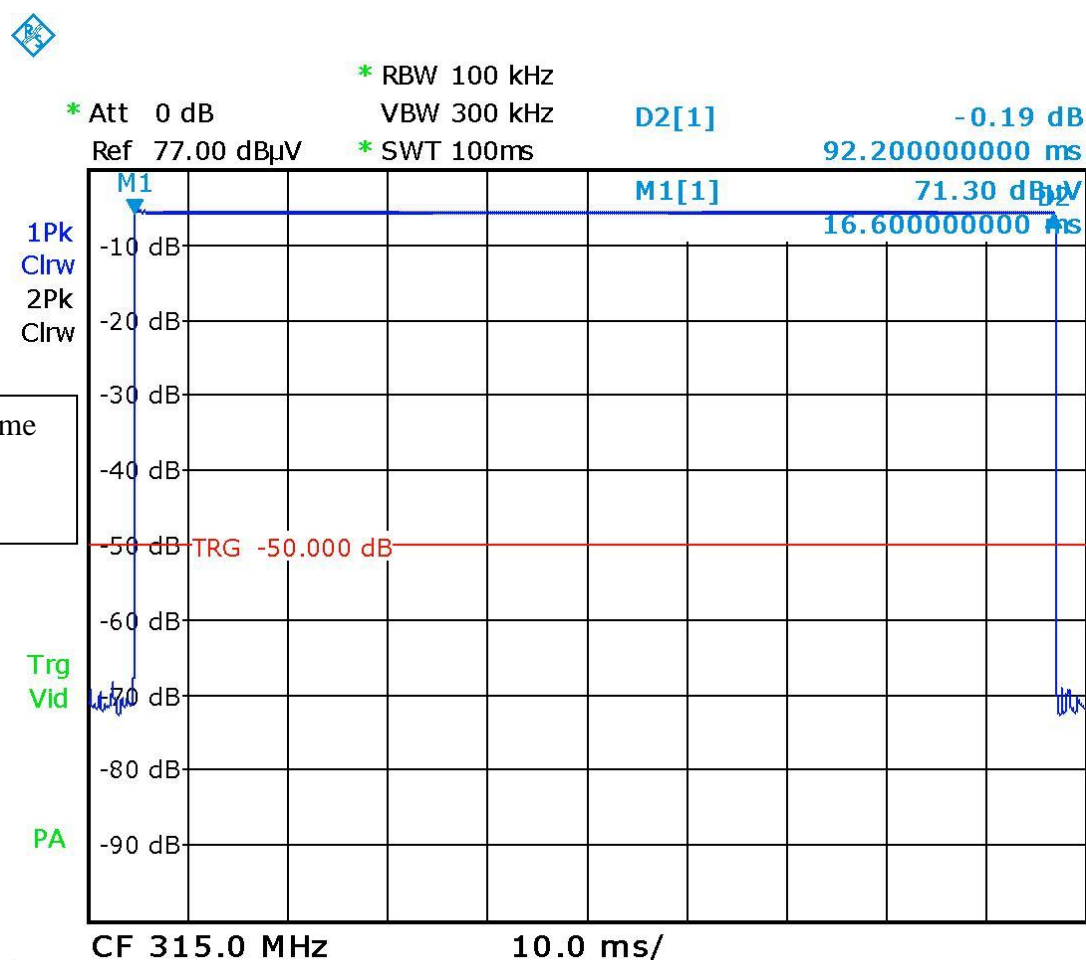
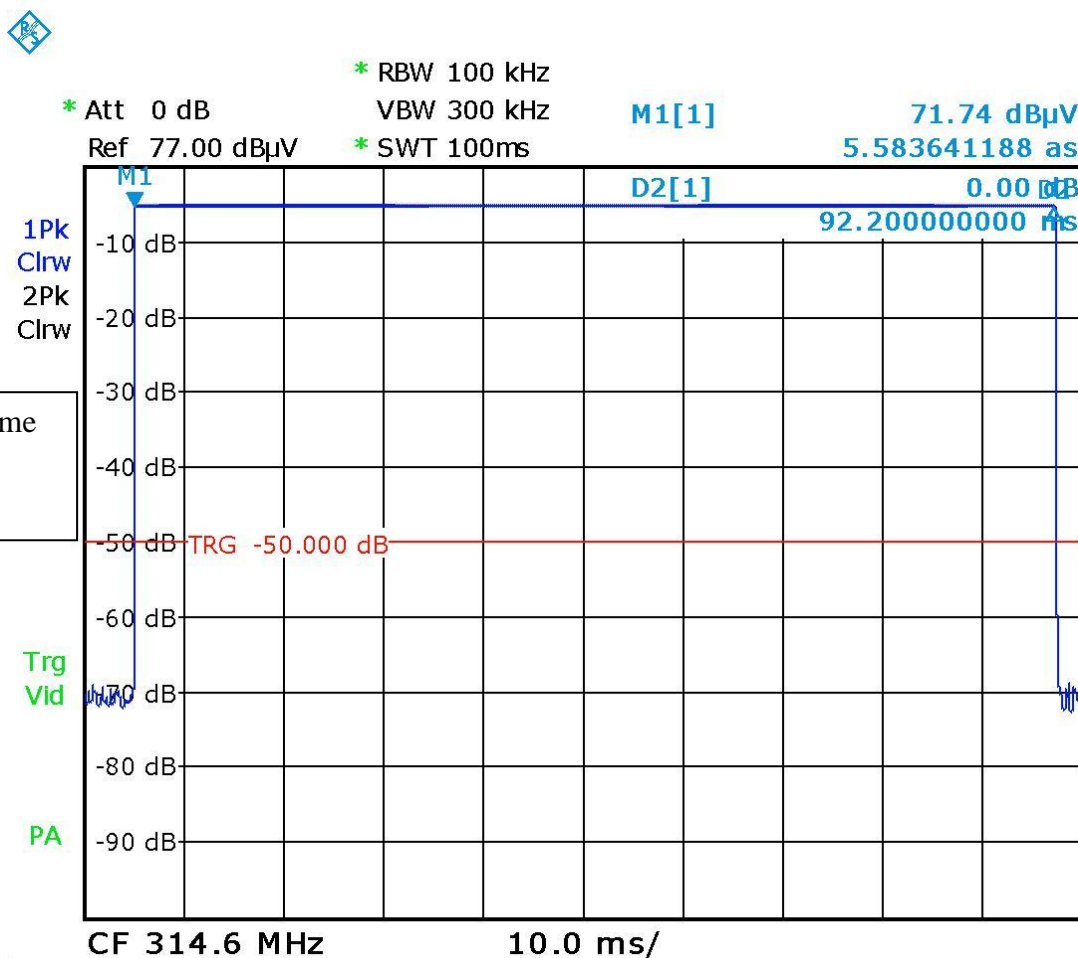


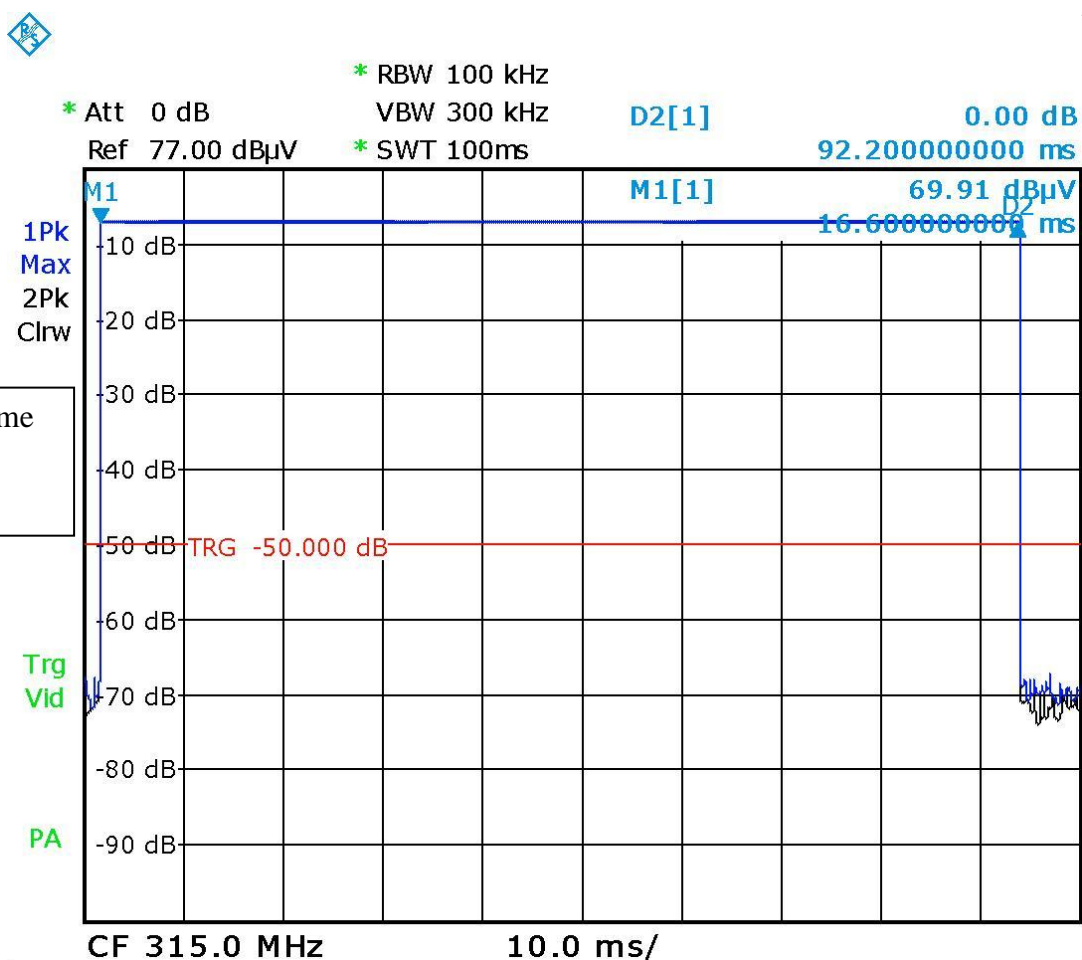
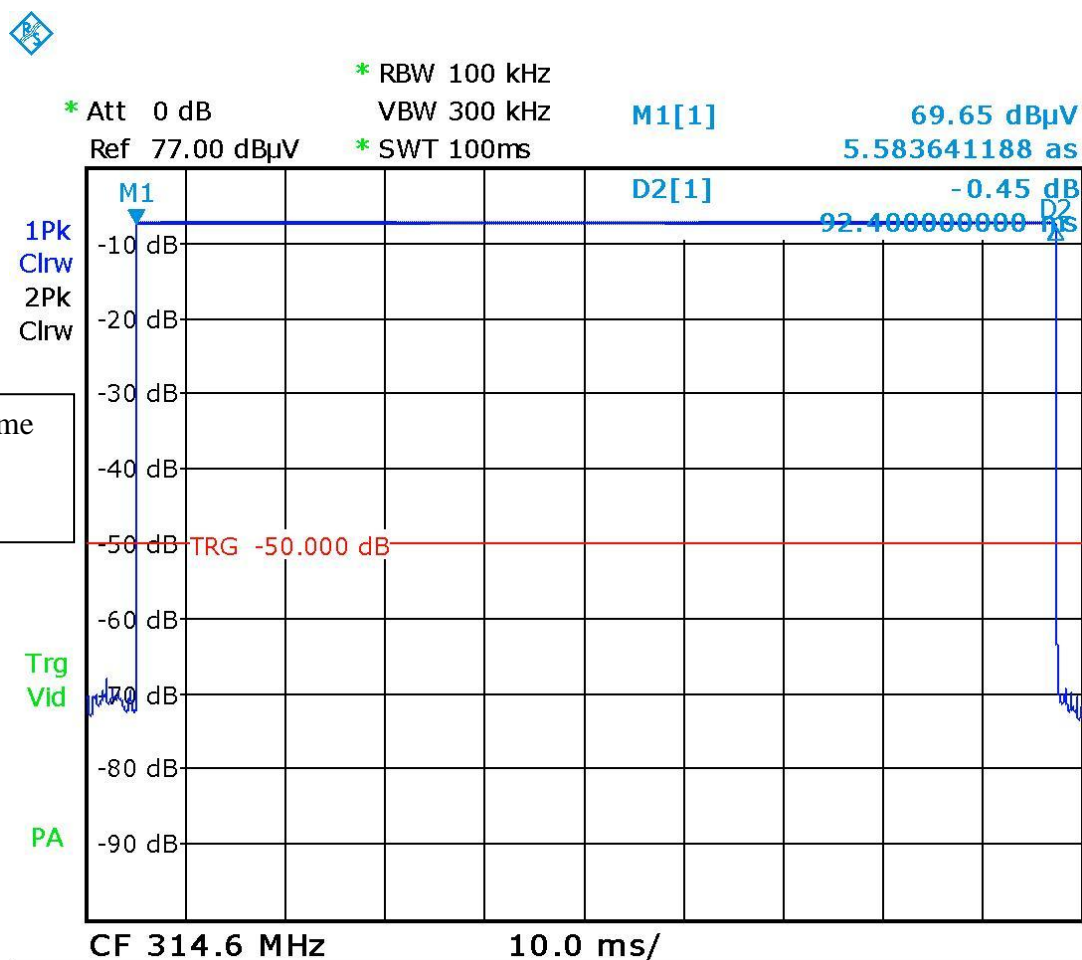


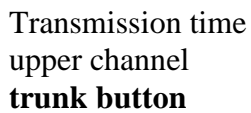
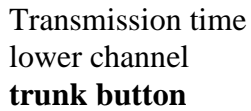
Screen shot 6 to 10 shows the transmitter transmission times of the upper channel after release an button and the following "comfort telegrams" after the successful car units acknowledge.

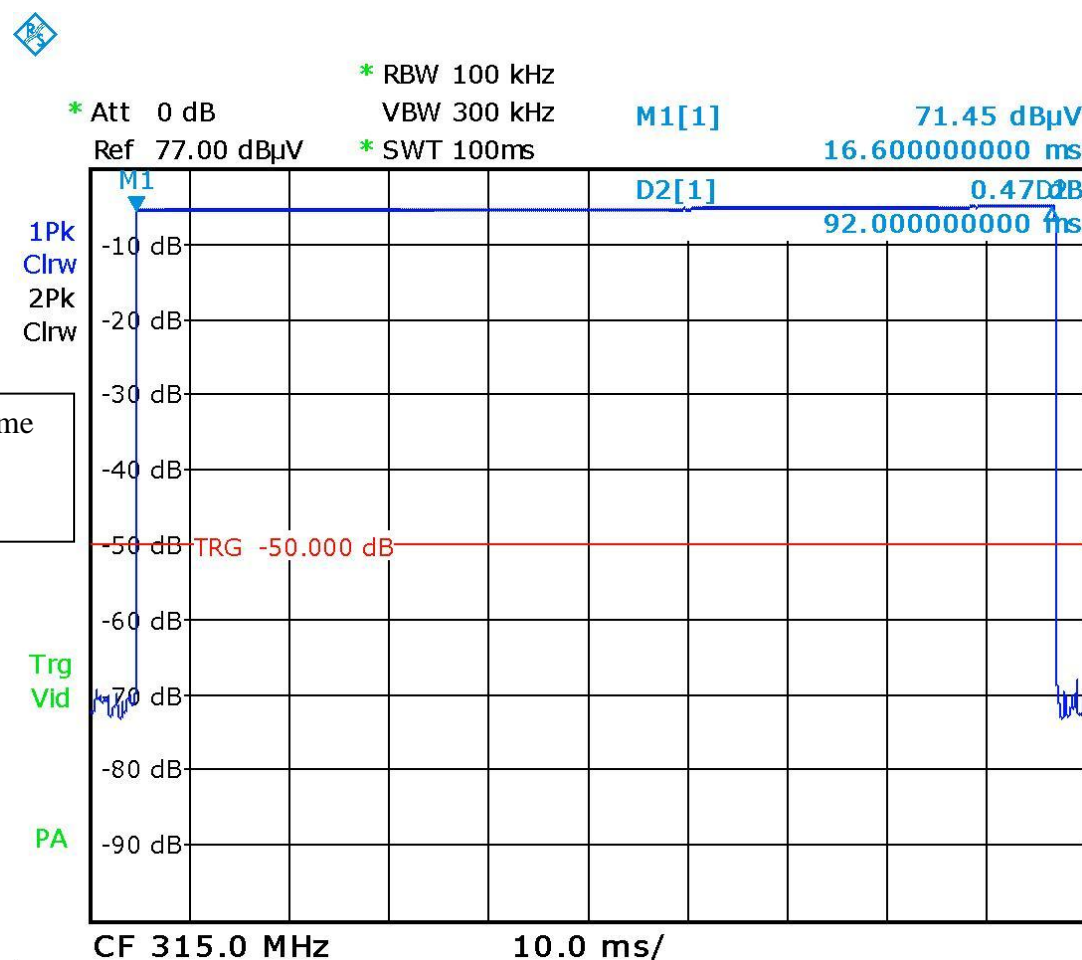
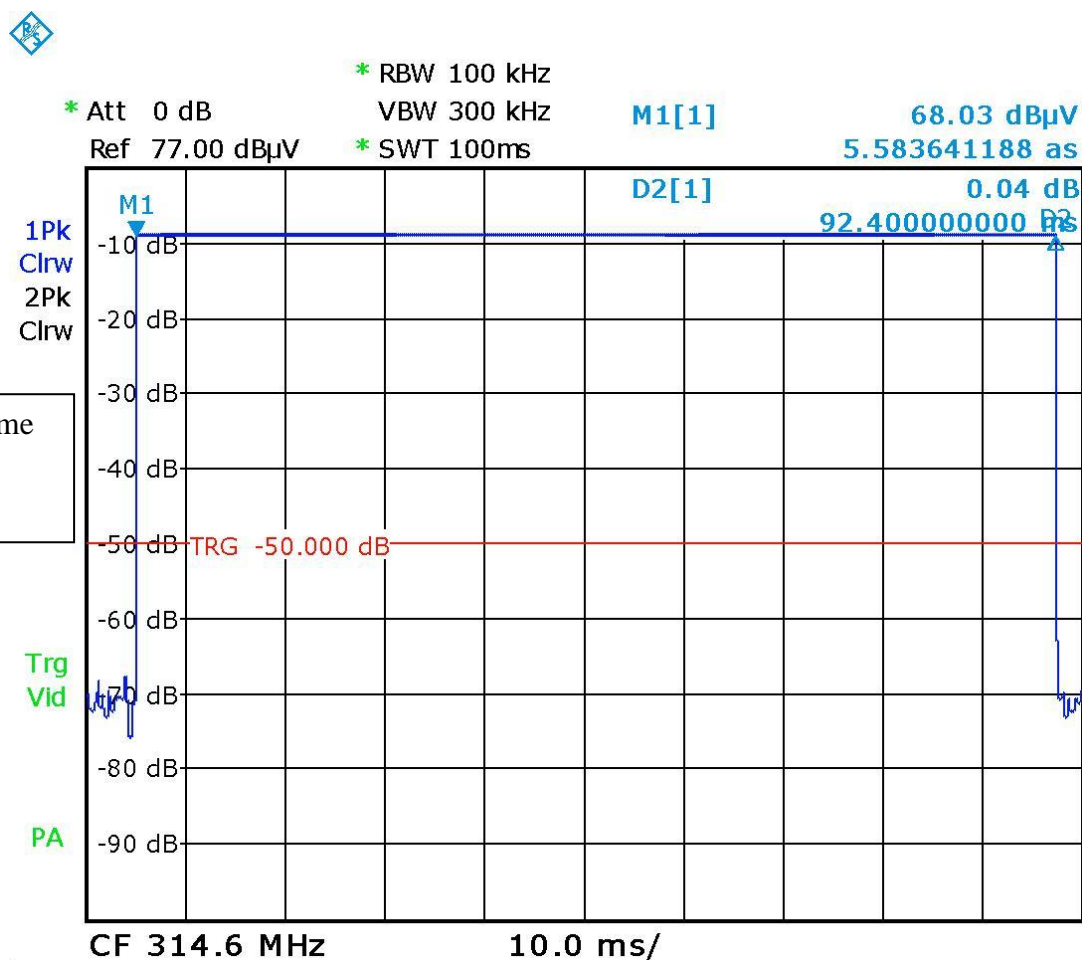
The total transmission time for this operating mode is shorter than 250 ms!

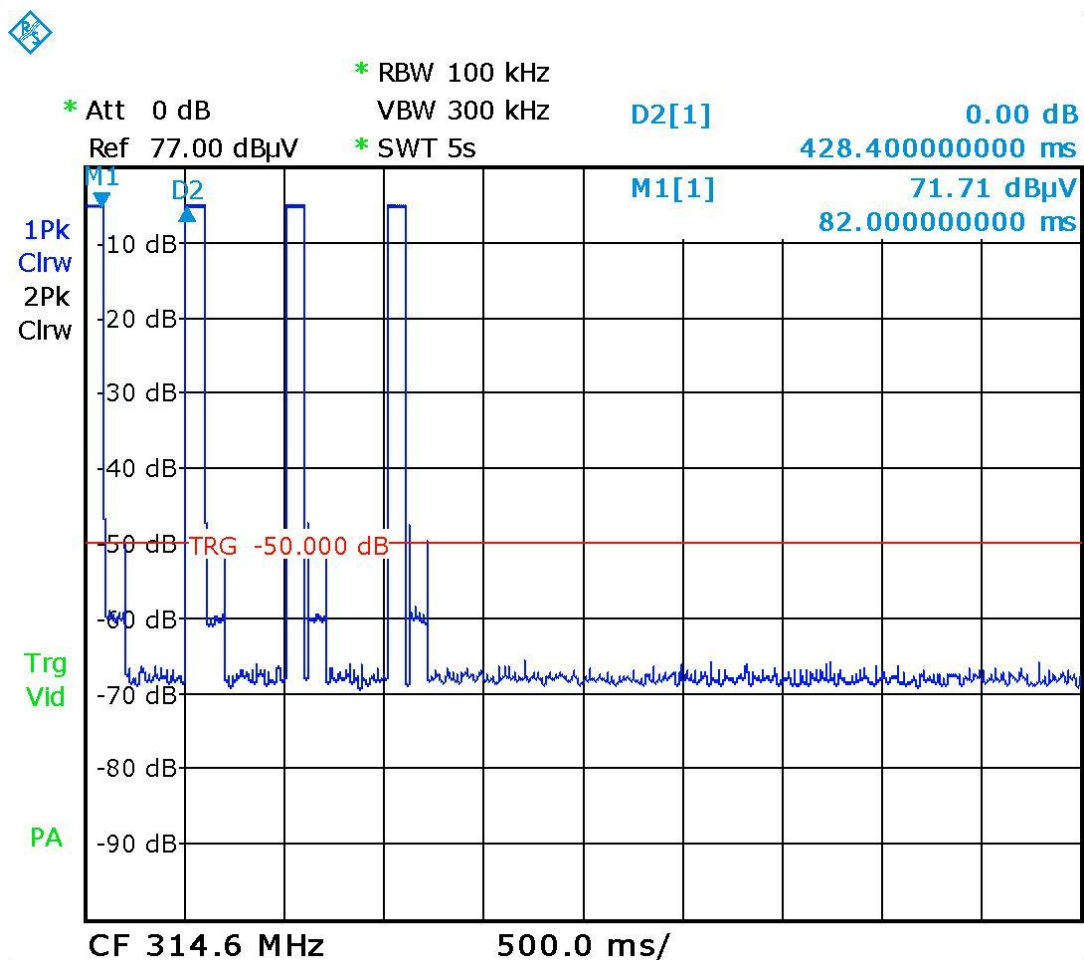








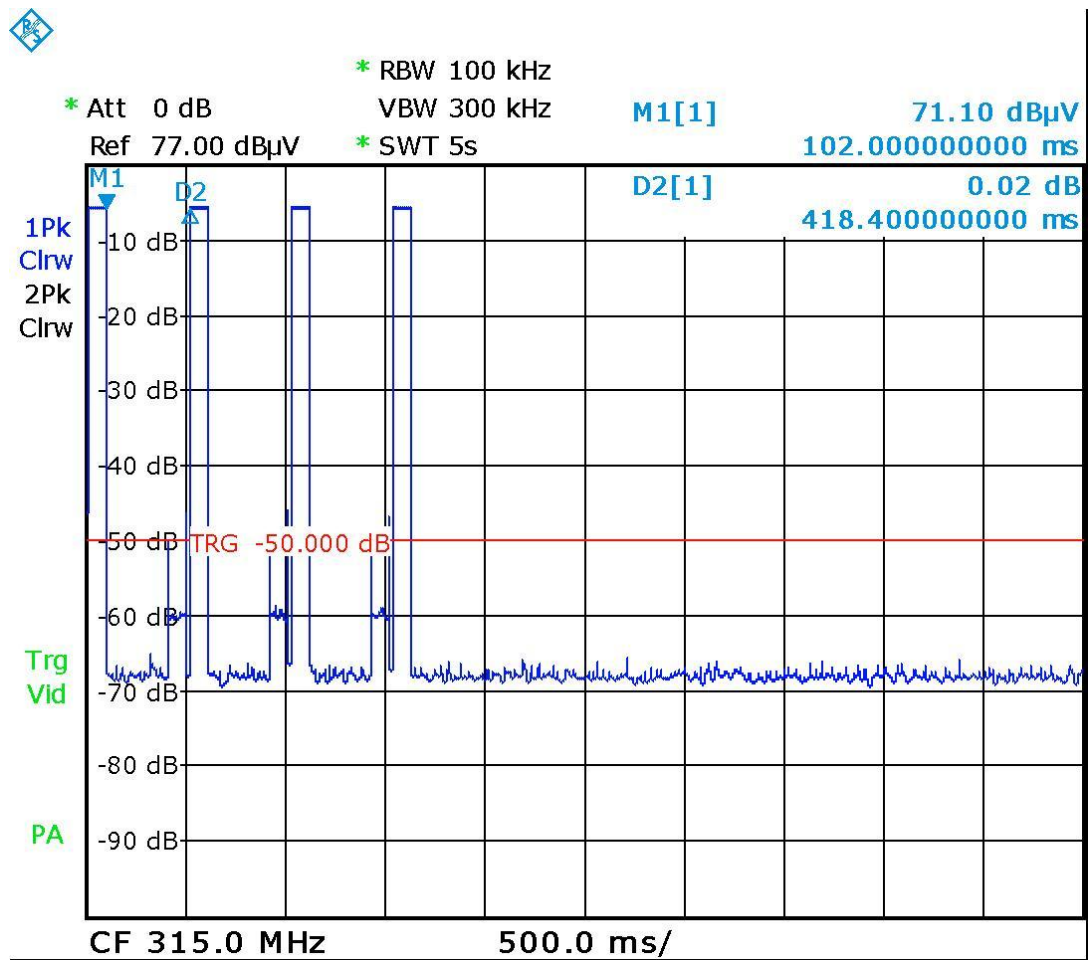




### Lower channel

The screen shot shows the transmitter transmission time during continuous pressing of one arbitrarily button

The total transmission time for this operating mode is maximal 1.6 seconds!



### Upper channel

The screen shot shows the transmitter transmission time during continuous pressing of one arbitrarily button

The total transmission time for this operating mode is maximal 1.7 seconds!

### **Calculation of the average correction factor**

The average correction factor is computed by analyzing the "worst case" on time in any 100msec time period and using the formula: Corrections Factor +  $20 \cdot \log$  (worst case on time/100msec). Analysis of the remote transmitter worst case on time in any 100msec time period is an on time of 50msec, therefore the correction factor is  $20 \cdot \log (50/100) = -6$  dB. The maximum correction factor to be applied is 20 dB per section 15.35 of the FCC rules.

**The measured worst case on time in an 100ms period is 92.4 ms.**  
**From this follows:**

**Average correction factor =  $20 \cdot \log (92.4 \text{ ms}/100 \text{ ms}) = \underline{-0.7 \text{ dB}}$**