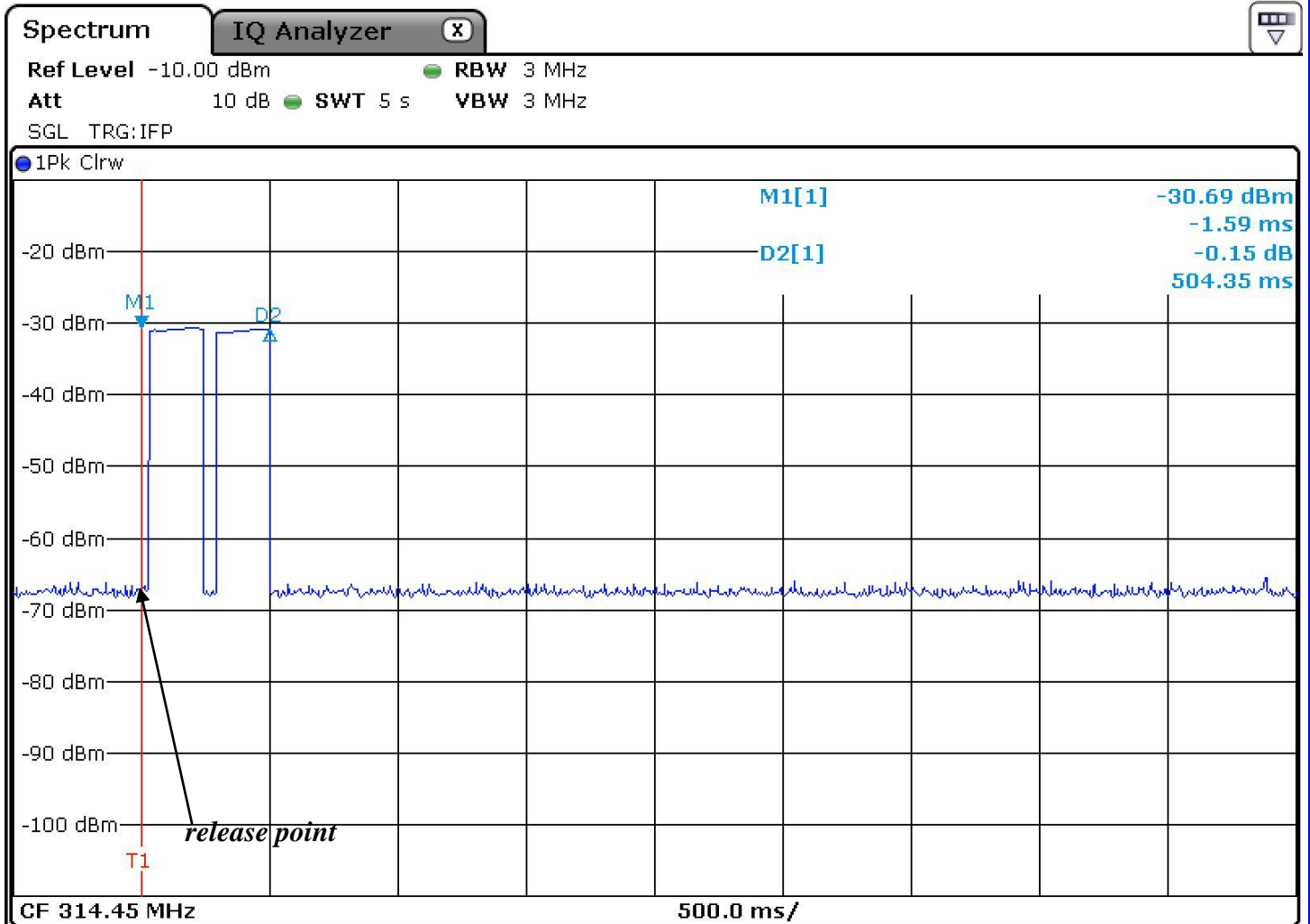


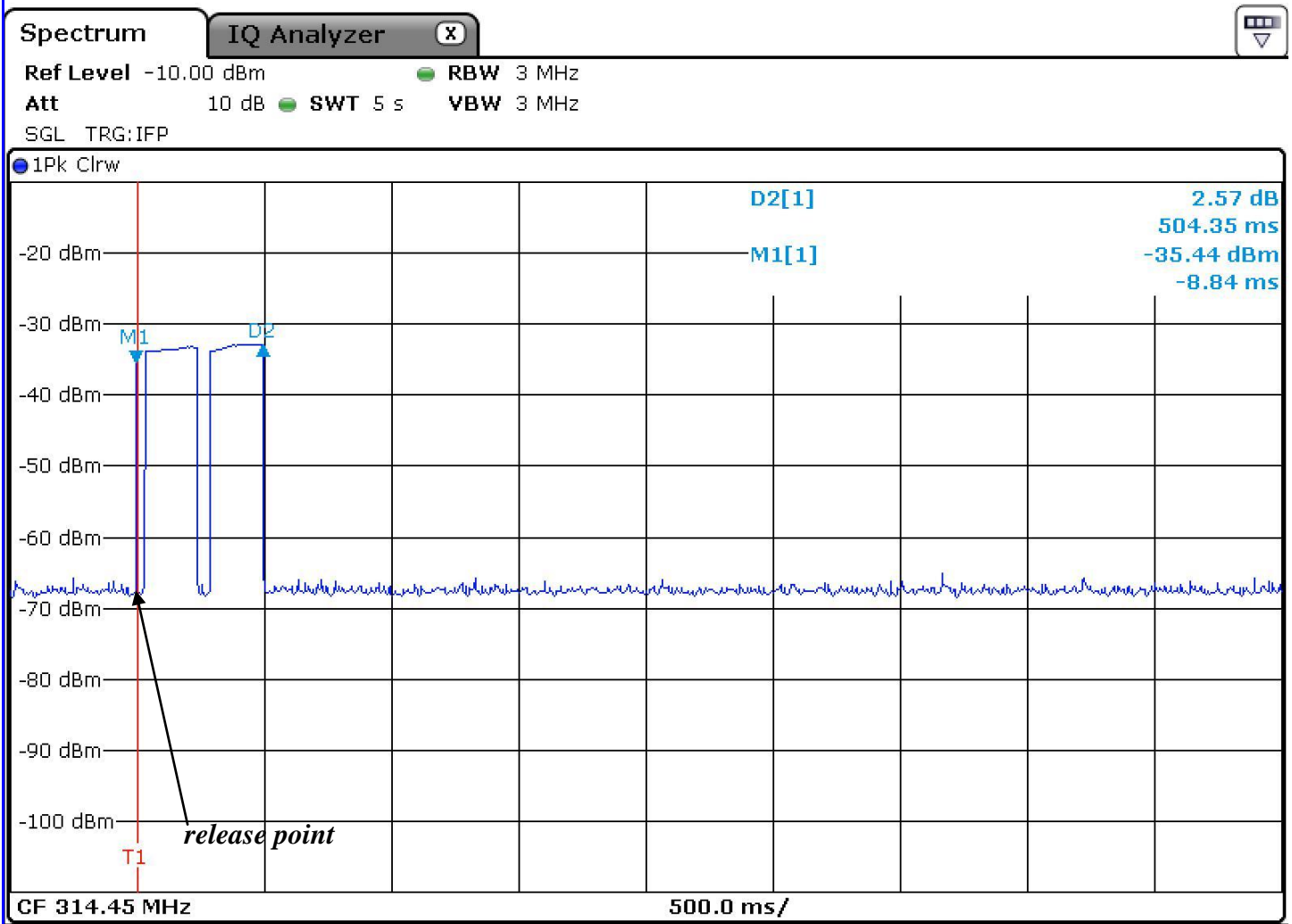
Annex no. 11

Transmission Time Operation Characteristics

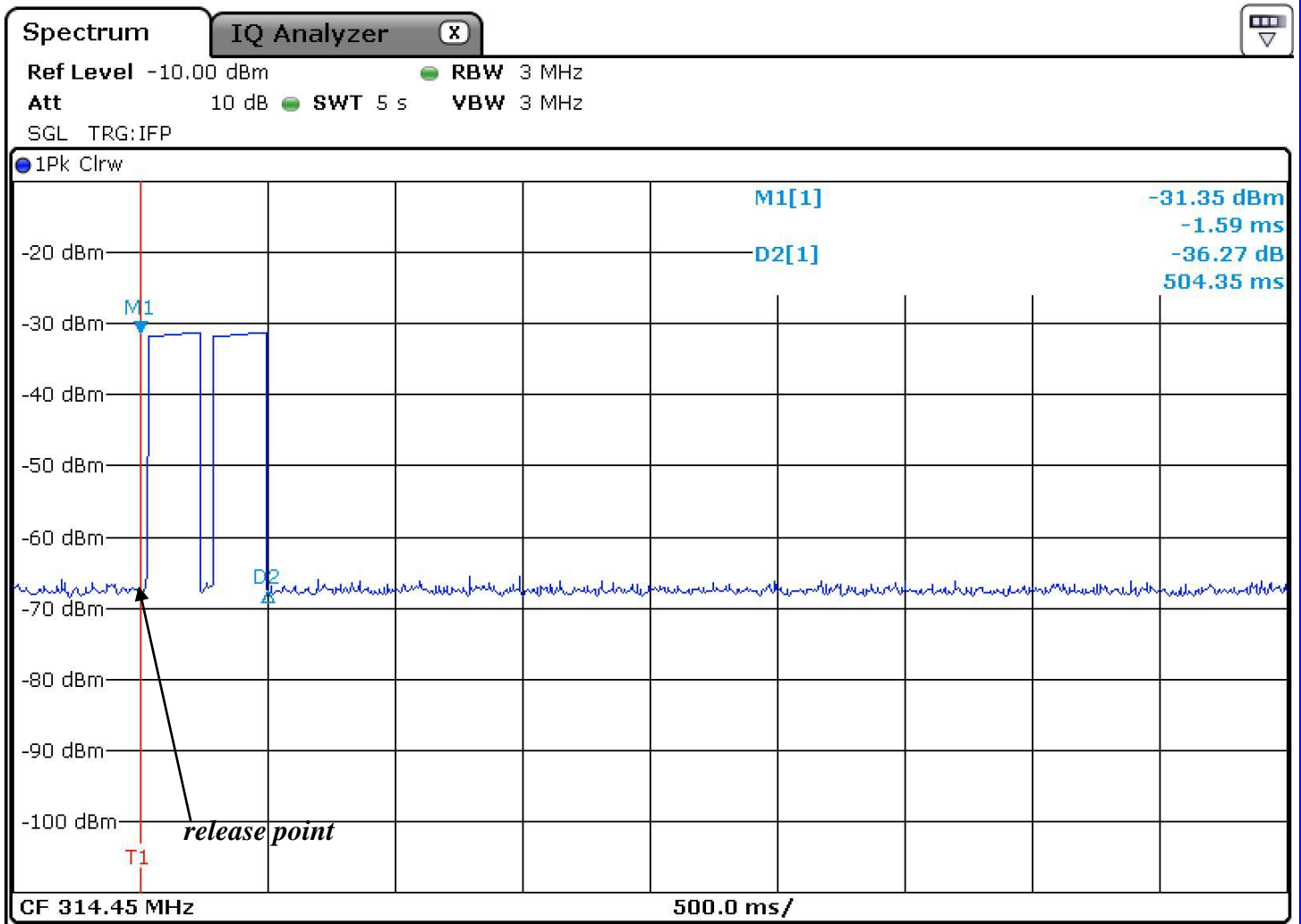
Transmission time (open button)



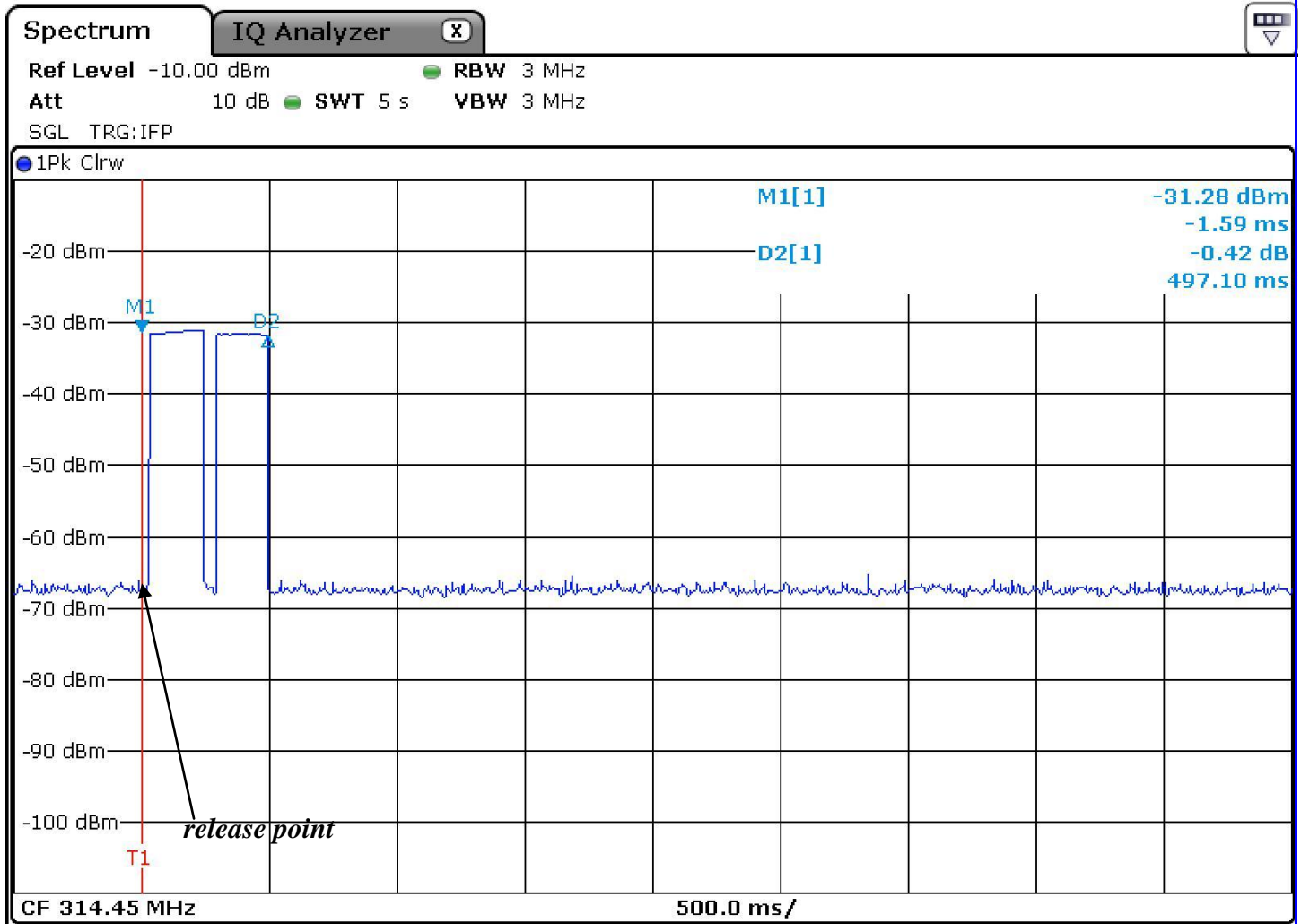
Transmission time (close button)



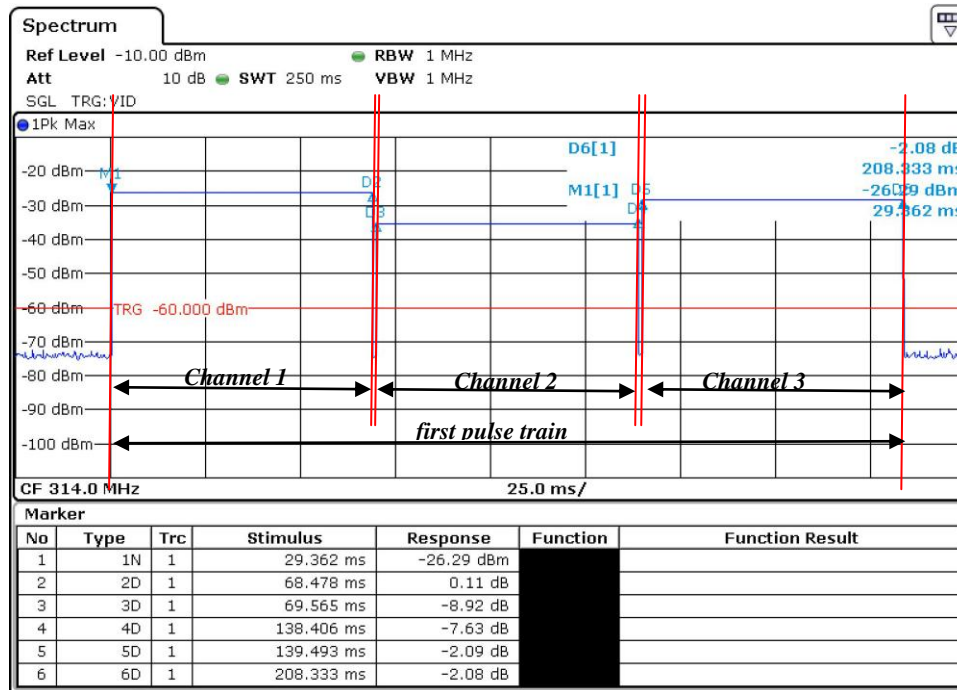
Transmission time (trunk button)



Transmission time (panic button)

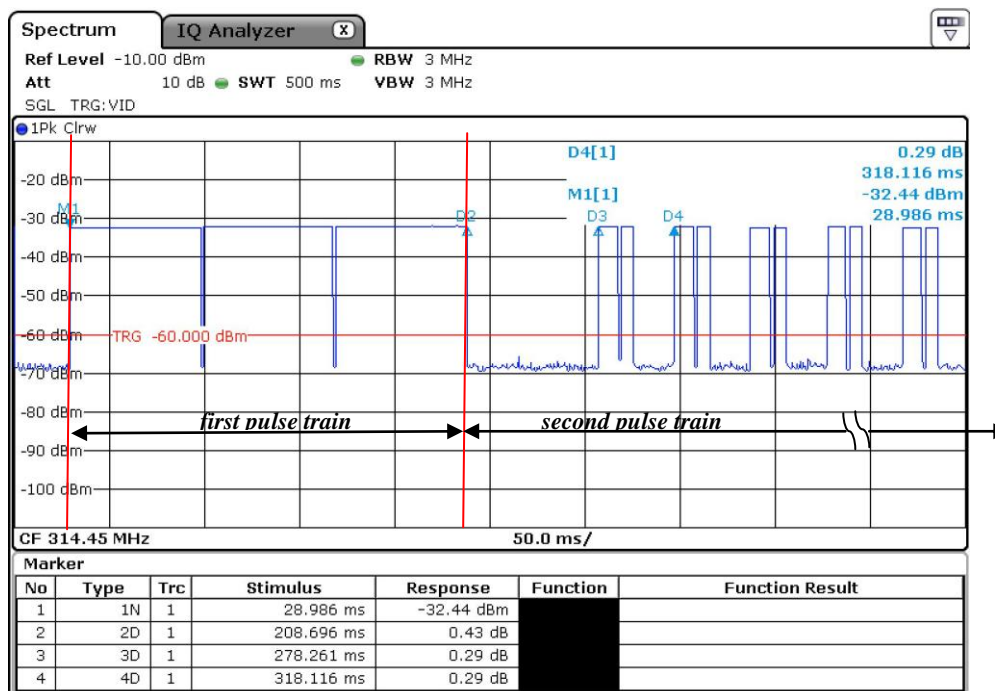


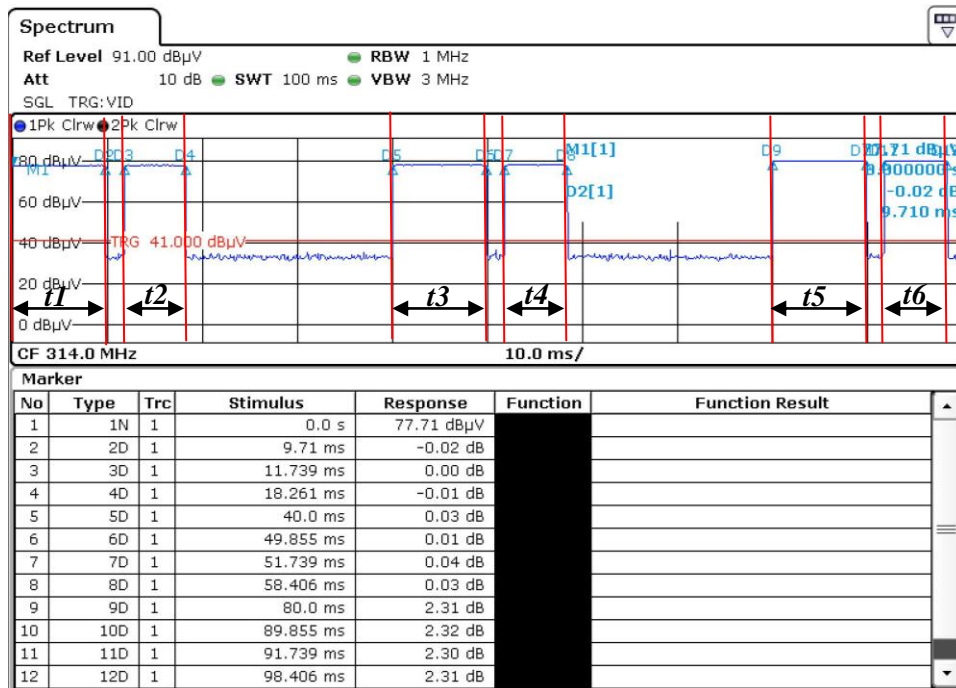
Transmission time per channel



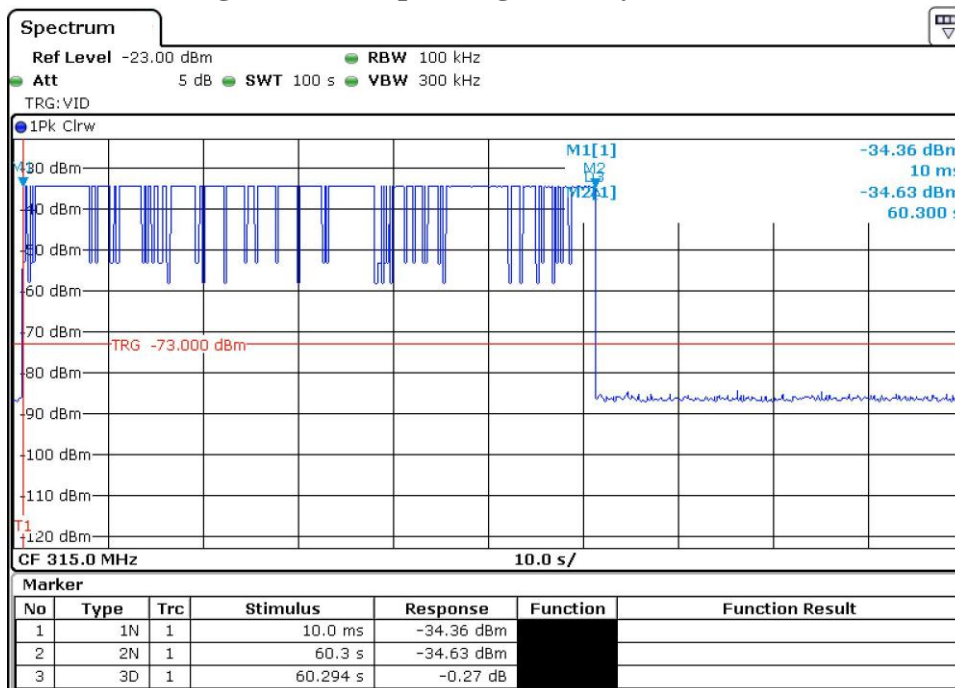
In the first pulse train one channel transmit once only after another
 The chronological order is Channel 1 (314.00MHz), Channel 2 (314.90MHz), Channel 3 (314.45MHz)

worst case transmission in any 100 ms time period per channel during first pulse train = 68.84 ms





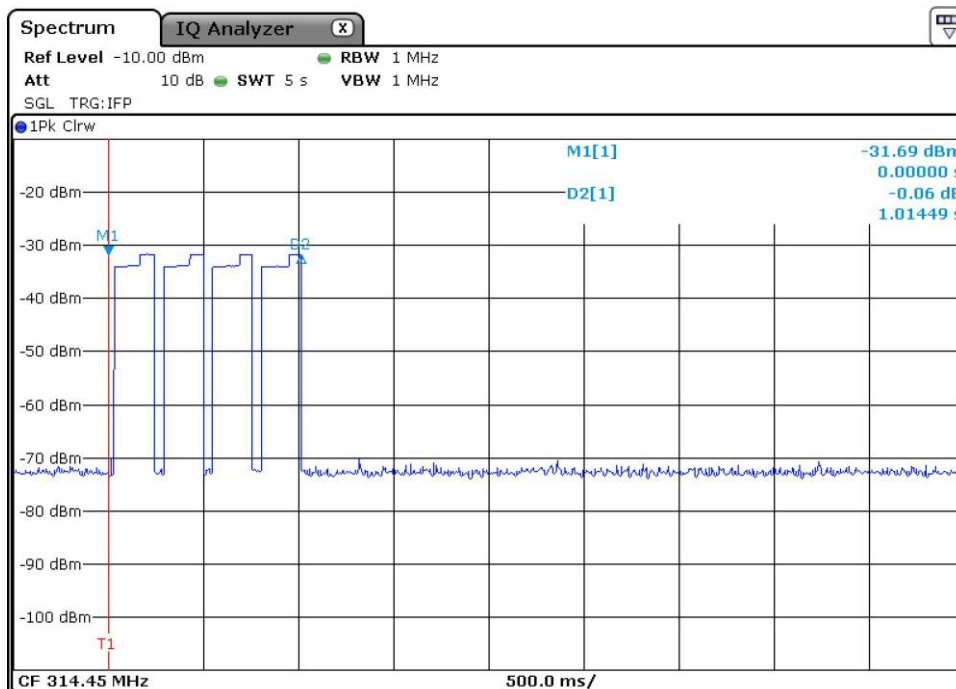
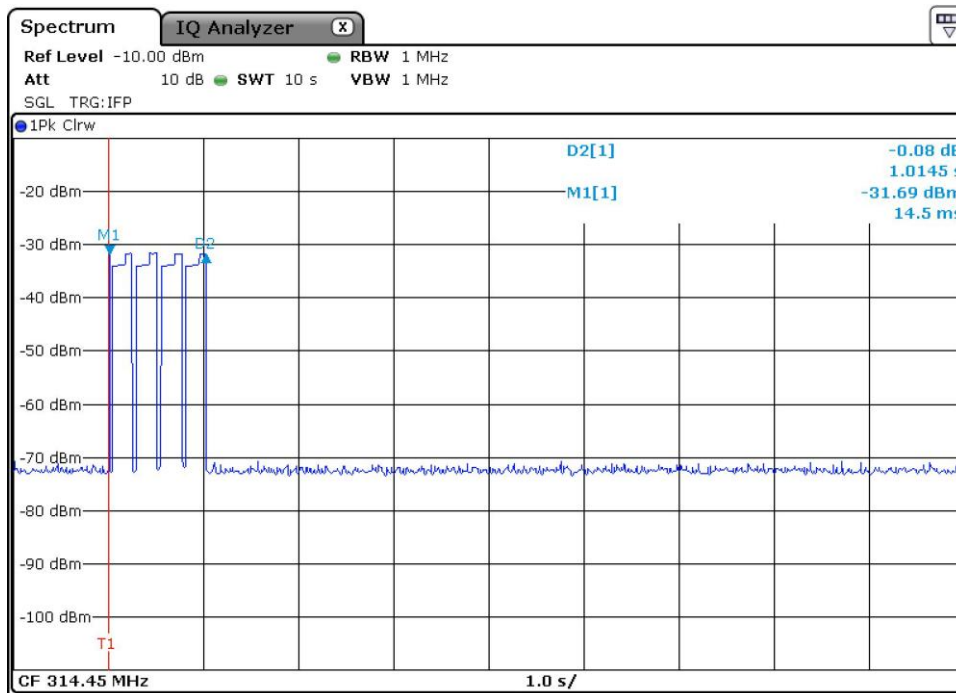
The second pulse train to be in progress after a longer actuation of any button.
 The maximum duration during continuous pressing is nearly 60 seconds. (See Plot below)



$t_1 = 9.855 \text{ ms}$, $t_2 = 6.522 \text{ ms}$, $t_3 = 9.855 \text{ ms}$, $t_4 = 6.667 \text{ ms}$, $t_5 = 9.855 \text{ ms}$, $t_6 = 6.667 \text{ ms}$
 $t_1 + t_2 + t_3 + t_4 = 49.421 \text{ ms}$

worst case transmission in any 100 ms time period during second pulse train = 49.421 ms

Transmitter activated automatically



In automatic mode one channel transmit once only after another and this is repeated for four times. The worst case transmission in any 100 ms time period is the same as per the first pulse train = 68.84 ms

Calculating the averaging factor

The worst case transmission time per channel is 68.84 ms in a 100 ms time sweep.

The averaging factor was calculated by the following formula:

$$\begin{aligned}\text{averaging factor} &= 20 \cdot \lg (\text{TX}_{\text{ON}} / 100 \text{ ms}) \\ &= 20 \cdot \lg (68.84 / 100 \text{ ms}) \\ &= -3.2 \text{ dB}\end{aligned}$$