

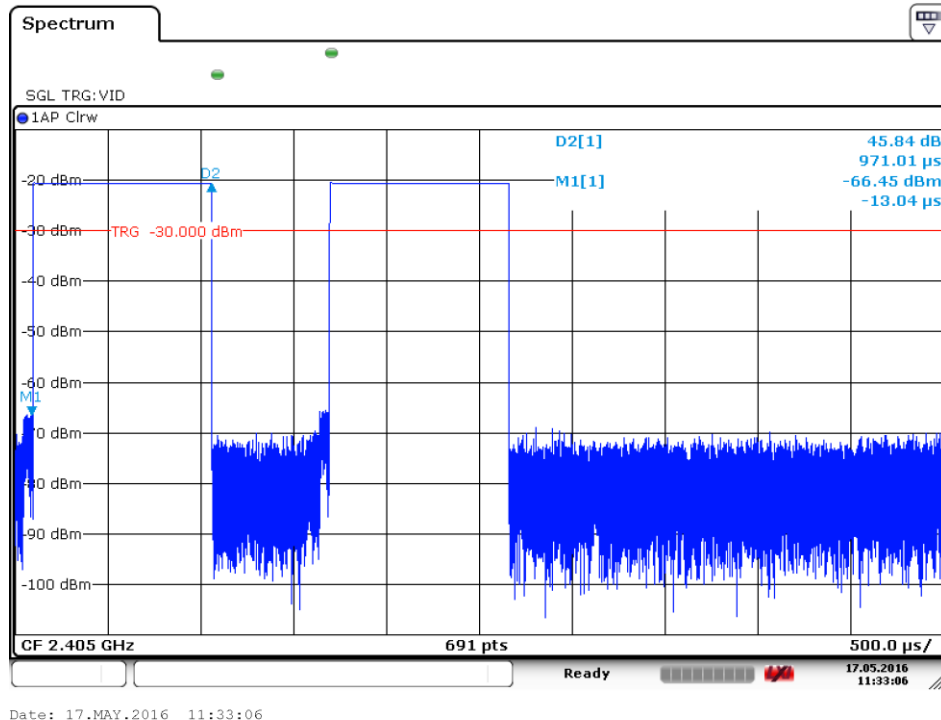
PTM535Z duty cycle

PTM535Z is device which transmits limited amount of telegrams when triggered to send. Each telegram consists of frames and number of frames sent is defined by 3 standard settings which user can choose.

1. **Default setting** is 2 frames per one telegram

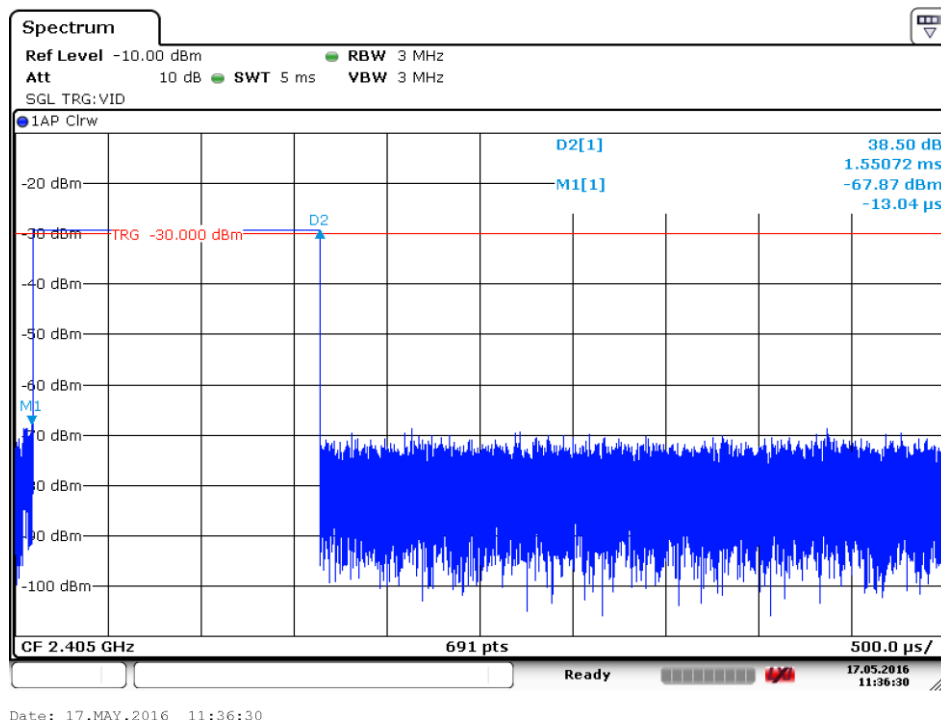
This case is called security level 2 and per frame we transmit 24 bytes.

Length of each frame is **0.971 ms**.



2. With default setting mentioned above user can transmit **Commissioning telegram**

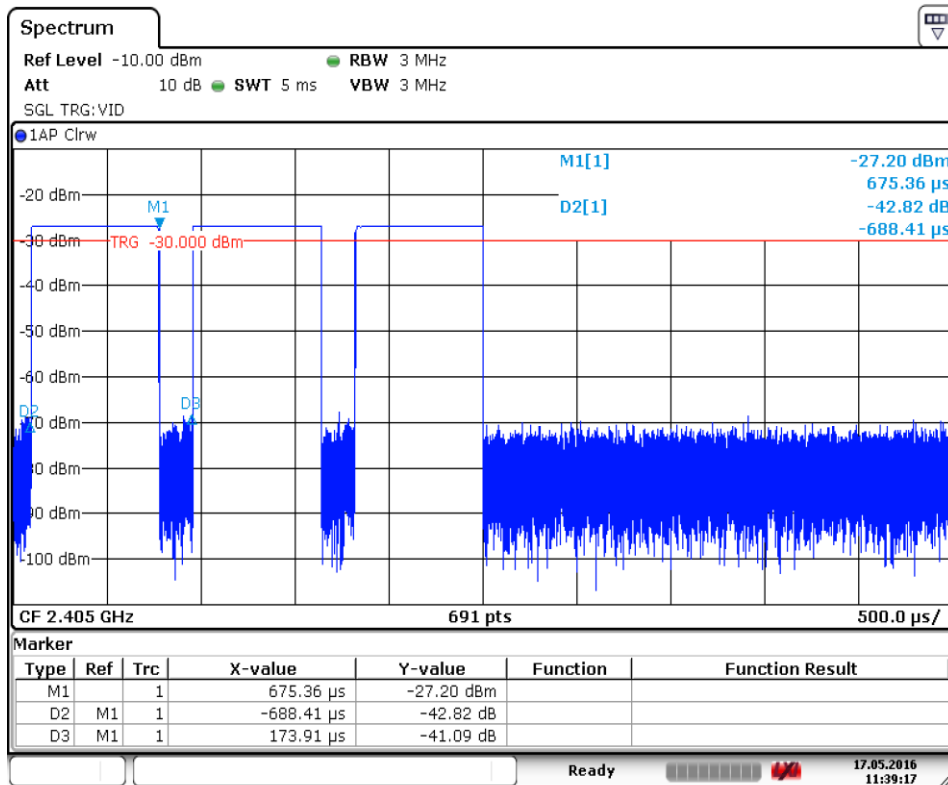
This telegram consists of one frame with length of 42 bytes and total length **1.55 ms**.



3. User can also choose to transmit 3 frames per telegram in so called **Unsecure mode**

PTM535Z duty cycle

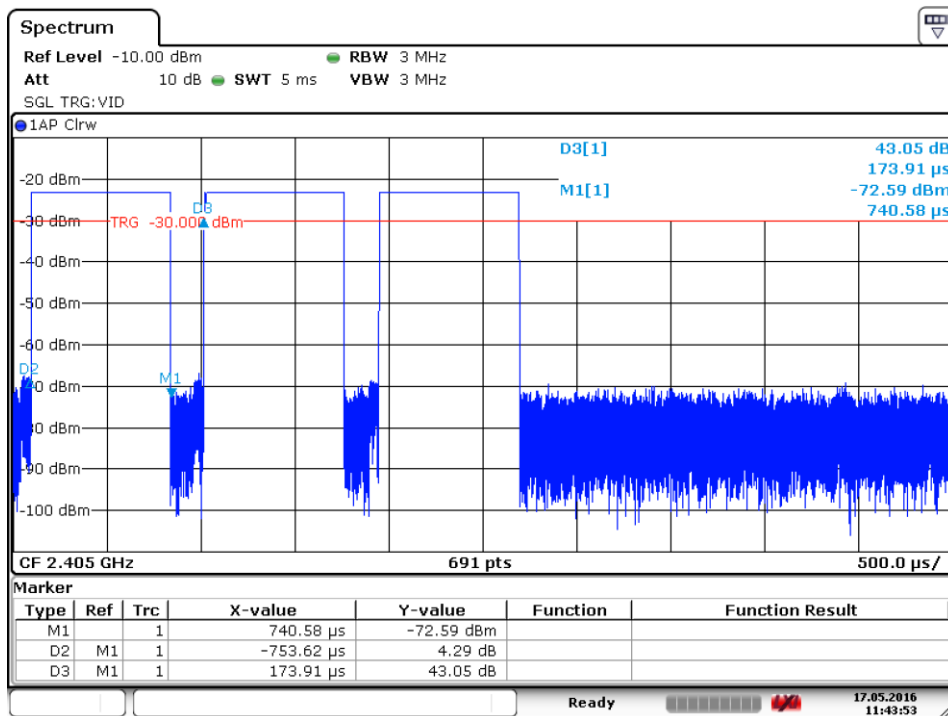
In this case length of each frame is 15 bytes which corresponds to total **0.688 ms** per frame



Date: 17.MAY.2016 11:39:17

- In unsecure mode user can also trigger a commissioning telegram

This will result in sending 3 frames, 17 bytes long each with total time per frame of **0.754 ms**

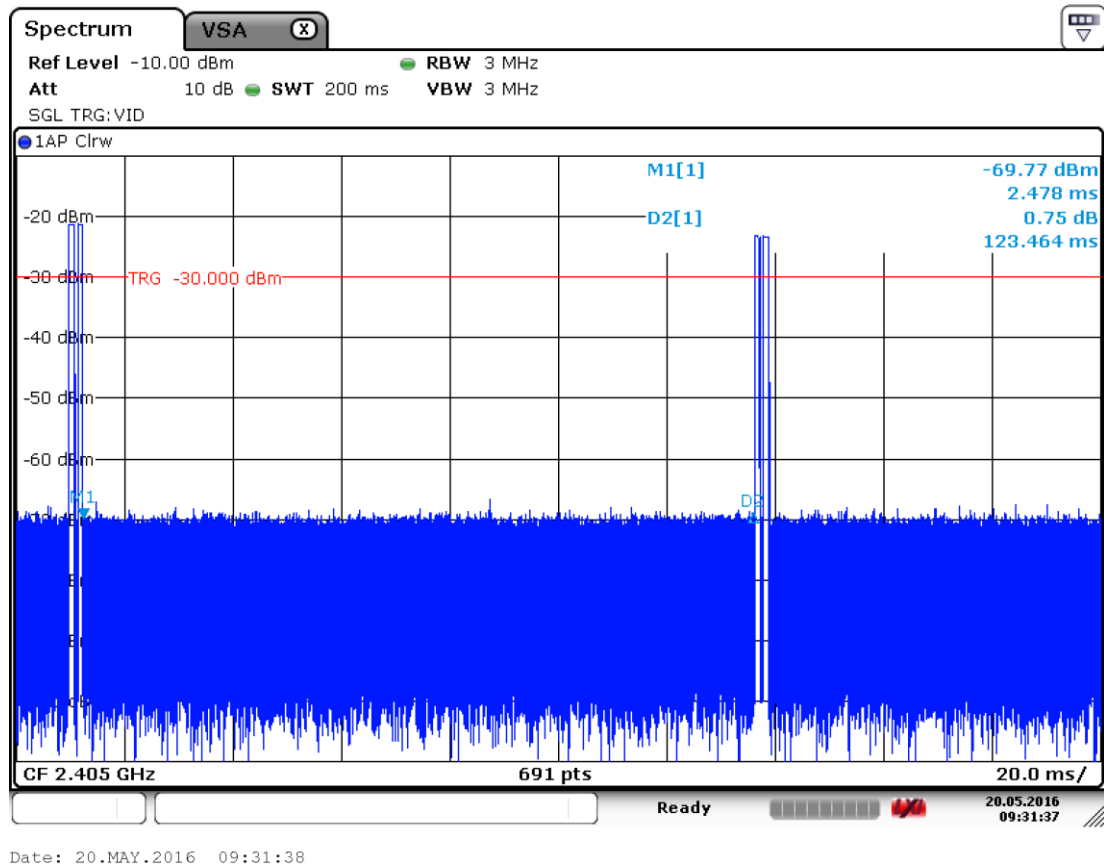


Date: 17.MAY.2016 11:43:53

PTM535Z duty cycle

How fast can user send telegrams?

Telegram sending is triggered when pulse from power supply is detected (PTM535Z is meant to be used with energy harvesting electro-dynamic generator – EnOcean ECO 200) and based on the above mentioned possible settings it is not possible to send more than 3 frames within 100 ms. Figure below demonstrates that.



With sending commissioning telegrams triggering is even slower, because commissioning telegram is sent on every second pulse detected.