

To: FCC OET Laboratory, ATTN Steve Martin

From: CURRENT Technologies

Regarding: Correspondence 31239, FCC ID TY7210-0115, EA749943

NOTE: This reply to correspondence modifies the operational description and is included in the Request for Confidentiality filed with the original application.

The correspondence noted above raised two questions. These questions are listed in boldface below, with the answer directly below the questions:

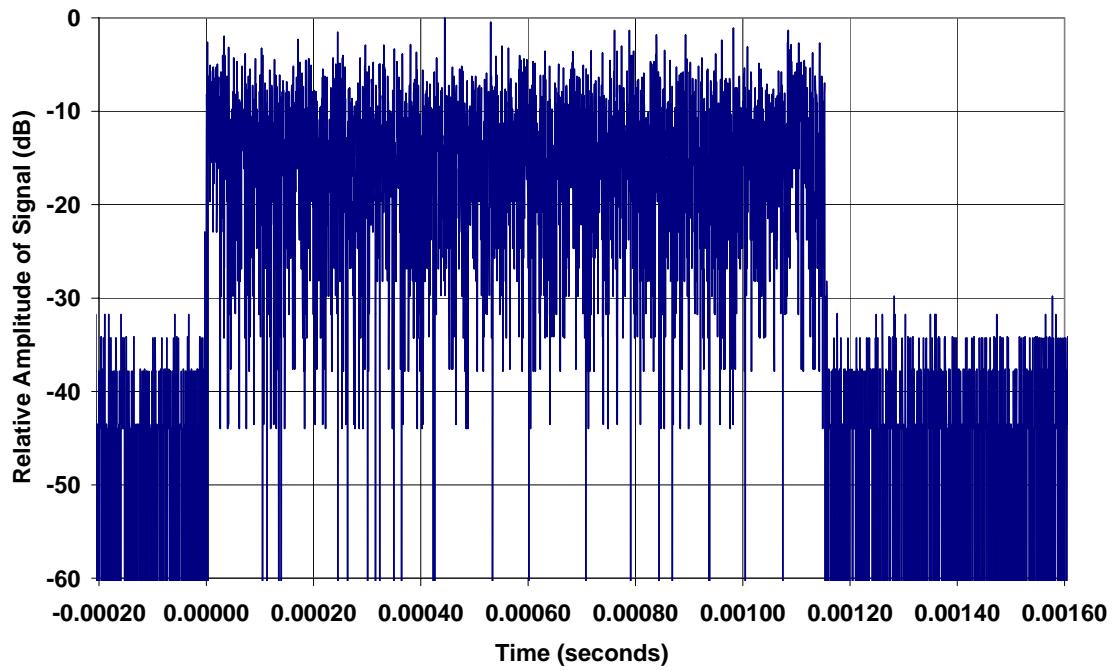
Q: We await a new version of the ‘Notching Instructions’ document correcting the number of carriers that must be masked.

A: A Revised Notching Instructions is attached to this correspondence.

Q: Please provide quantitative measurement of RF injection duty factor achieved during testing.

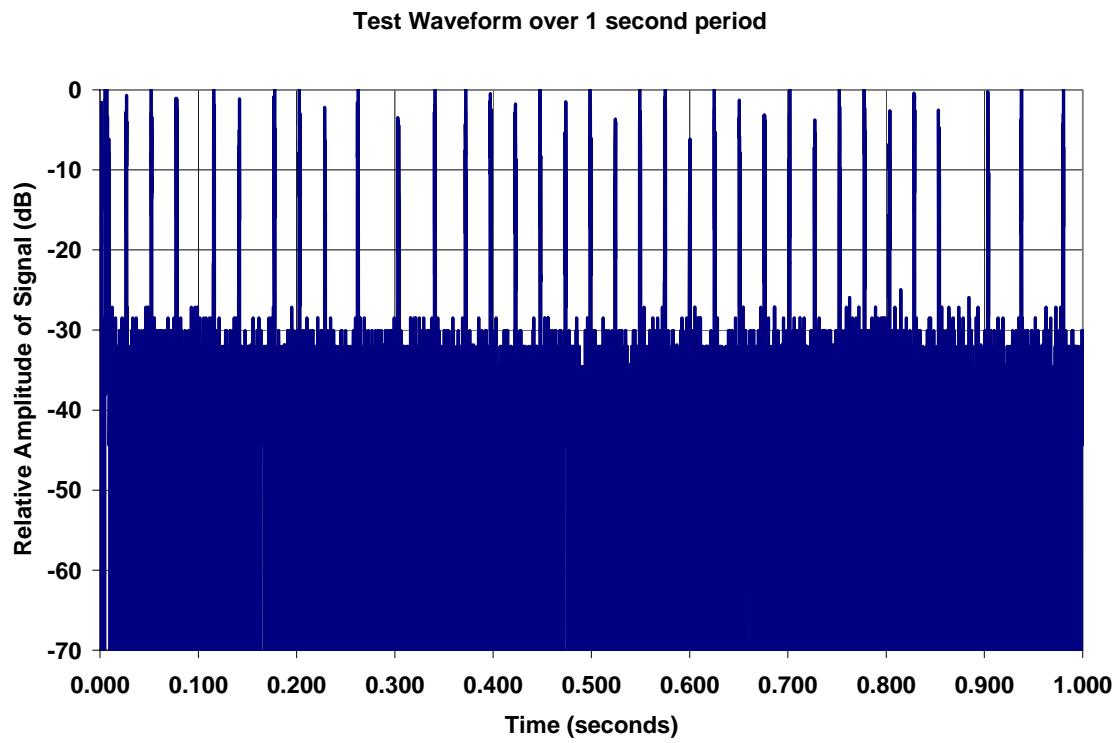
A: As noted in the reply to correspondence 31194, the ‘*mfgviperon*’ command is designed to create repeated system overhead messages that fully exercise the quasi-peak detector and can be duplicated in both the field and lab environment. The command creates a burst of 200 OFDM symbols that get repeated at least 40 times per second, easily exceeding the 20 pps requirement. To illustrate this point, the signal was generated in a laboratory and its time domain waveform captured. This data is shown below. The figure below shows a plot of the 200 OFDM symbol burst.

Test Waveform - Zoom on Test Pulse



Note that the burst is longer than 1 ms, ensuring that the signal remains continuously on during the rise time of quasi-peak detection filter.

A plot of the bursts over a full second is shown below, in a plot of a full second of the waveform.



The repeated bursts ensure that the quasi-peak filter decay constant is not allowed to fully discharge, thereby ensuring that the measurement will register the maximum possible emissions as called out in Appendix C.