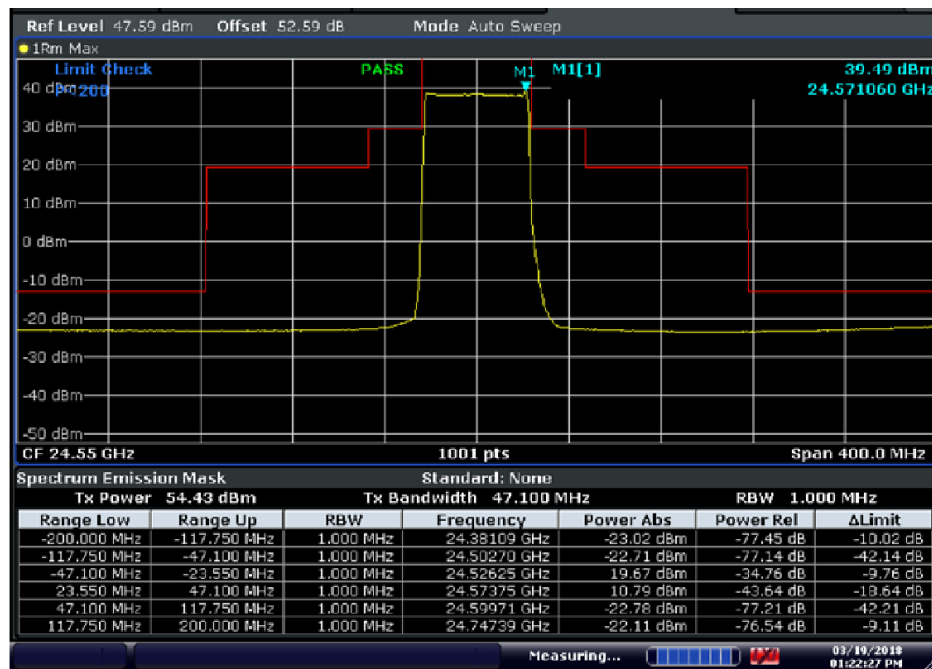


## Addendum

The lower-power EchoGuard CR variant was achieved through a digital decrease in the factory programmed power amplifier bias setting and minor software threshold settings in the radar application code; there are no design changes or hardware changes.

As a result of changing the bias setting, we incurred an 18dB relative increase in the high side emitted spectrum during the FM retrace from the sawtooth waveform. In the regular EchoGuard model, retrace spectrum is >47dB down and compliant to the FCC part 87.139 first mask offset point of -25dB below carrier spectrum. In the EchoGuard CR variant, spectrum is -28.8dB down and thus remains compliant to FCC part 87.139 requirement of -25dB down. (See Addendum Figure 1 - EchoGuard Baseline Spectrum, Figure 2 – EchoGuard CR Measured Spectrum.)



Date: 19 MAR 2018 13:22:27

Figure 1 – EchoGuard Baseline Spectrum Mask compliance to FCC Part 87.139 Mask  
40MHz/Division, Reference NEMCO test Report ID: 348292-1R2TRFWL pg 28



Figure 2 – Modified EchoGuard CR FCC Spectrum Mask 10MHz/div Compliance tested at Echodyne. Shows compliance with first 25dB mask step required by FCC. All other offsets unchanged.