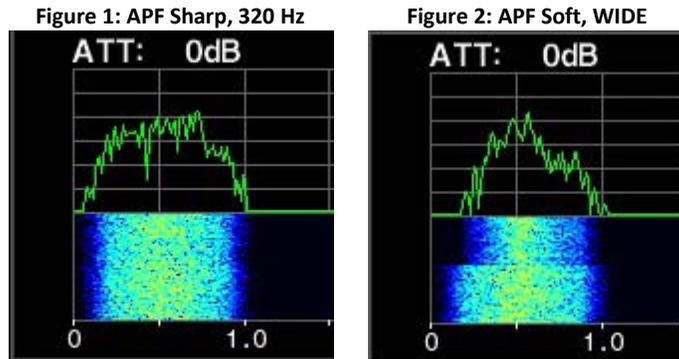


## IC-7610 APF Sharp & Soft Passbands

*by Adam Farson VA7OJ/AB4OJ*



Recently, I conducted a brief test to compare the SHARP and SOFT APF settings in the IC-7610. Figures 1 and 2 (above) are screen captures of the audio spectrum analyzer (Audio FFT Scope) with noise loading at S6 applied to the MAIN RX input.

### APF settings:

- Mode: CW, FIL1, 600 Hz BW, -350 Hz SFT
- APF: 320 Hz (SHARP), WIDE (SOFT)
- APF LEVEL 6 dB (max).

Note that the passband is much more “rounded” in SOFT than in SHARP. Also, the sound is “softer” in SOFT, as compared to the somewhat “brighter” or “harsher” tonal quality in SHARP.

As this APF operation is the same as that of the IC-7700 (firmware V2.00 and higher), IC-7600 (firmware V2.0) and IC-7851 (as I recall), it is unlikely to be changed in the IC-7610. Displaying the actual bandwidth in SOFT rather than “WIDE/MID/NAR” might be a nice refinement.

Adam Farson VA7OJ/AB4OJ/April 30, 2018

*Copyright © 2018 A. Farson VA7OJ/AB4OJ. All rights reserved.*