

Spurious Emissions Tests

I hereby certify that after installation of the KTQQ transmitter and antenna, I conducted tests to assure full compliance with 47 C.F.R. Sections 73.317(b),(c)and(d).

Note that I permanently installed a two cavity band pass filter tuned to 88.1 MHz between the output of the FM transmitter and the input to the coaxial feed line. This added a further measure of security to prevent the possible reception, generation and/or re-radiation of inter-modulation products.

Using a Hewlett Packard spectrum analyzer and external wire antenna, I found the width of the carrier to meet or exceed FCC specifications, and I found no spurious radiation was being emitted. Please see attached photos of the HP screen, one with the KTQQ carrier on, the other with the KTQQ carrier off.

I scanned across the entire spectrum from 80 to 200 MHz seeking any sign of spurious radiation, with special attention to the aircraft band. Nothing was seen.

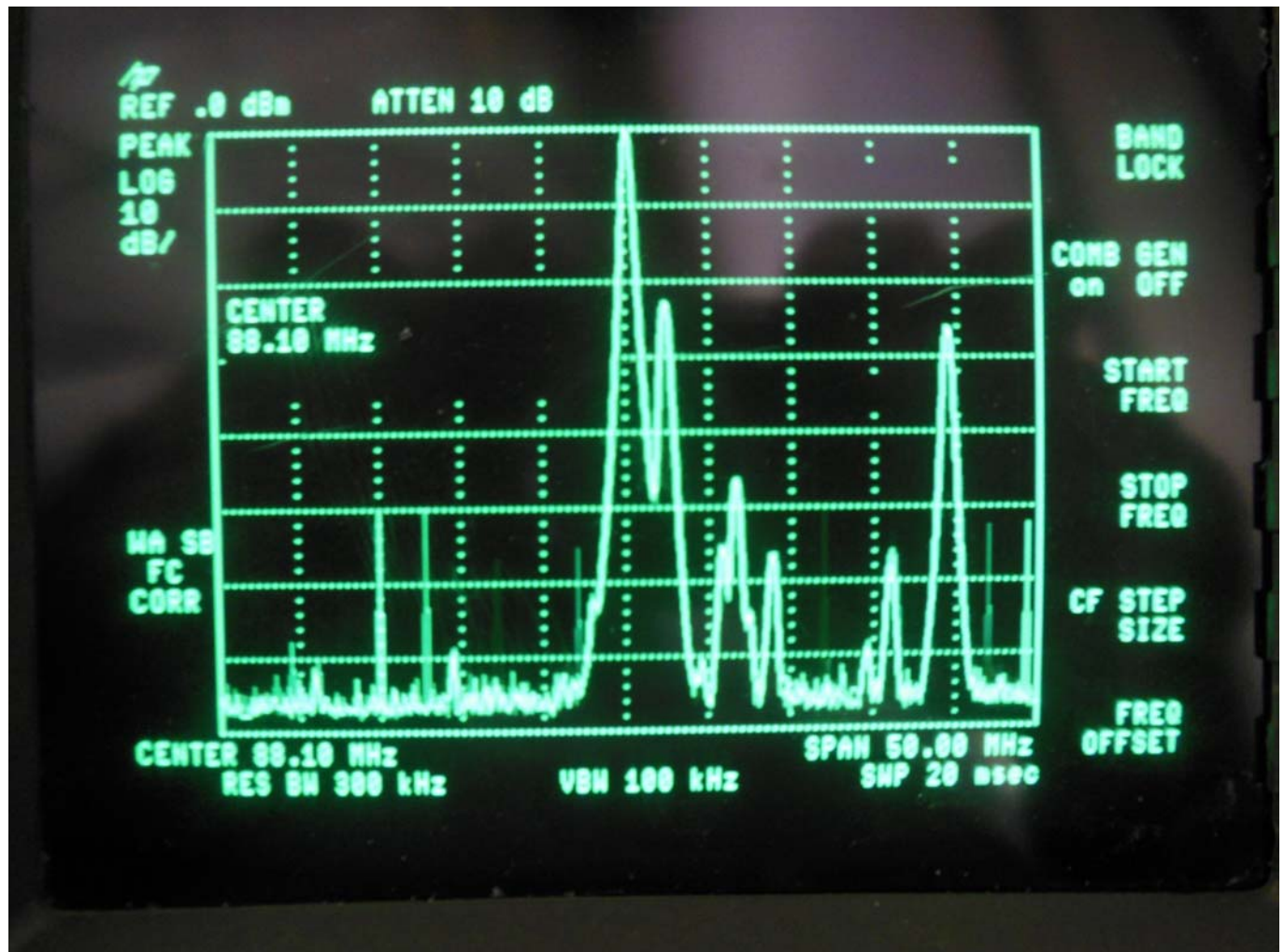
Ronald L. Myers
KTQQ
Installation Engineer

June 12, 2012

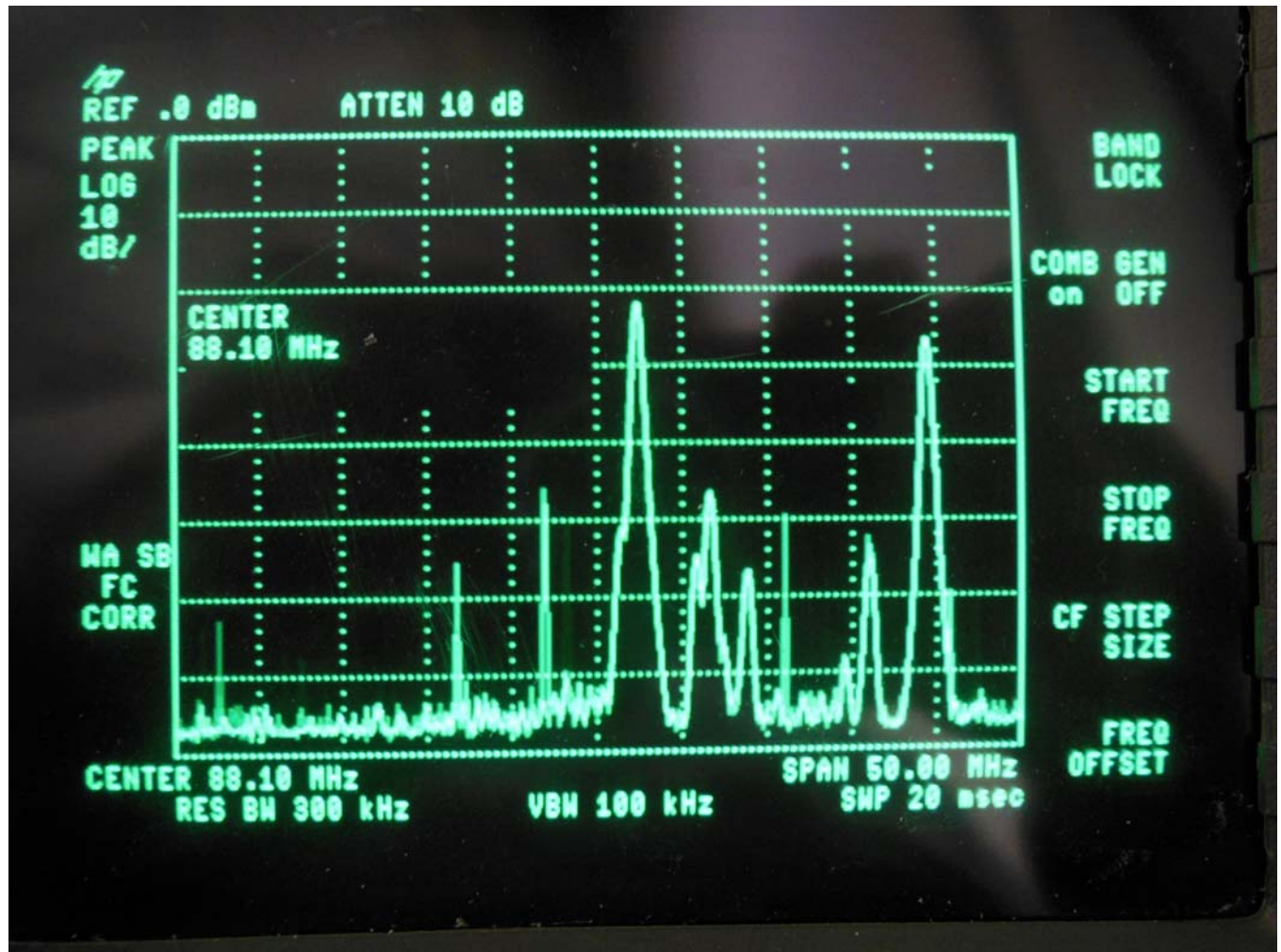
Photos of HP Spectrum Analyzer

KTQQ 88.1 MHz – with Carrier On

Taken at about 5 pm on June 12, 2012



KTQQ 88.1 MHz – with Carrier Off



One notes several rapidly floating narrow carriers between 50 and 45 dB down, the source of which is not known. These are clearly not being caused by the KTQQ transmitter because they did not disappear when our carrier was switched off.