

Spurious Emissions Measurements

The measurements below were made on the afternoon of January 15, 2017.

The measurements are shown in spectrum analyzer screen shots. Each frequency was measured with the carrier centered on the screen, each division is 300 Khz wide on most of the measurements. Each frequency was then “measured” with the same specan settings and the carrier off so as to show background noise and noise floor. Then finally there is a wider shot of the spectrum with all 3 translators turned off, as well as a similar measurement with all 3 on. It is worth noting is that there were “many” signals (almost every channel) that are present on the specan shots as well as and corresponding to the discernable FM broadcast channels that were noted on an IFR service monitor.

The service monitor was tuned to each potential intermod freq and found no discernable audio present on any of them. The following freqs were measured in this manner.

- 103.9 – 3 Mhz and 2.4 Mhz 100.9 101.5 no discernable signal to the noise floor.
- 106.3 + 2.4Mhz and - .6 Mhz 108.7 and 105.7 no discernable signal to the noise floor.
- 106.9 + 3Mhz and .6 Mhz 109.9 and 107.5 no discernable signal to the noise floor.

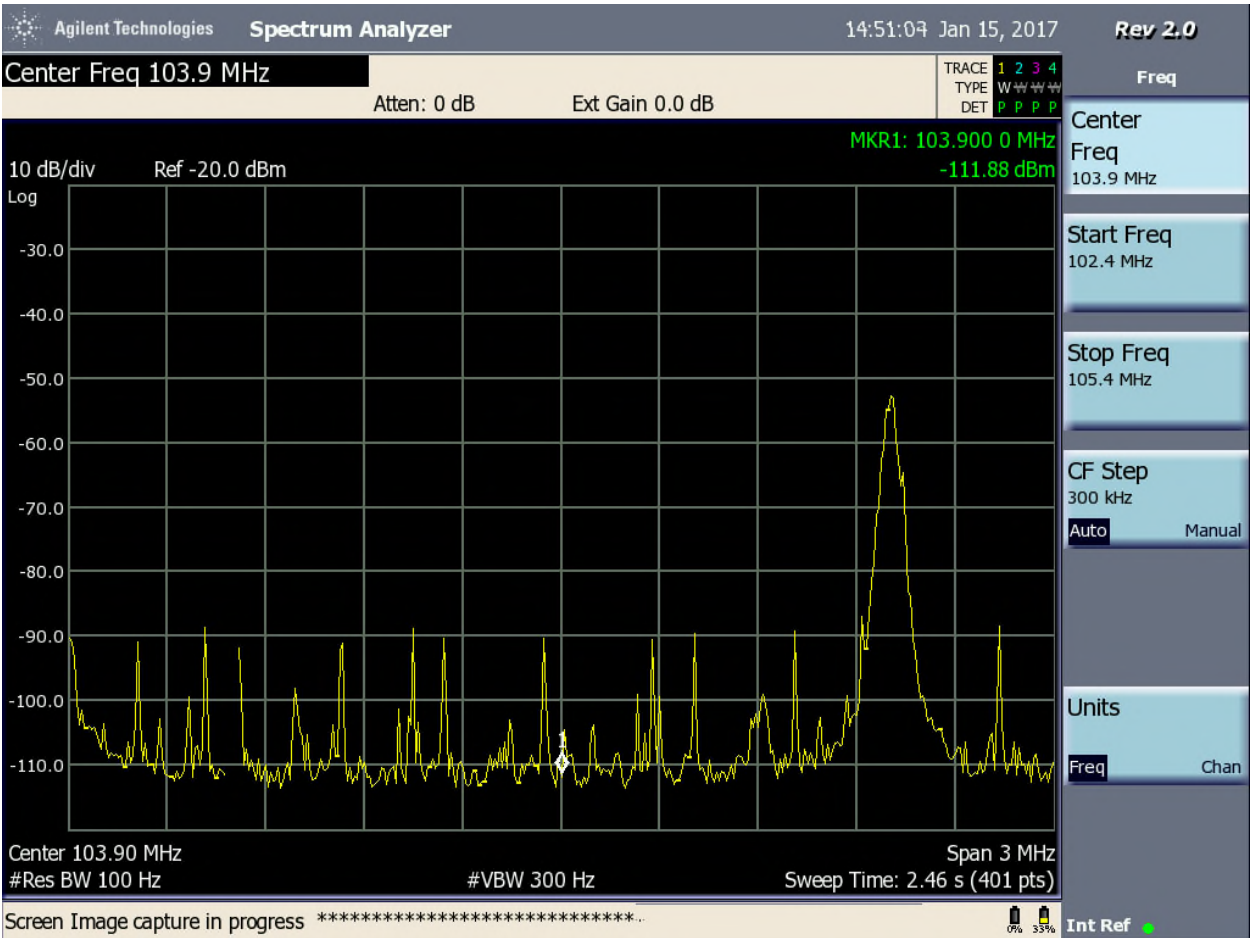


Figure 1 - 103.9 MHz - All Off

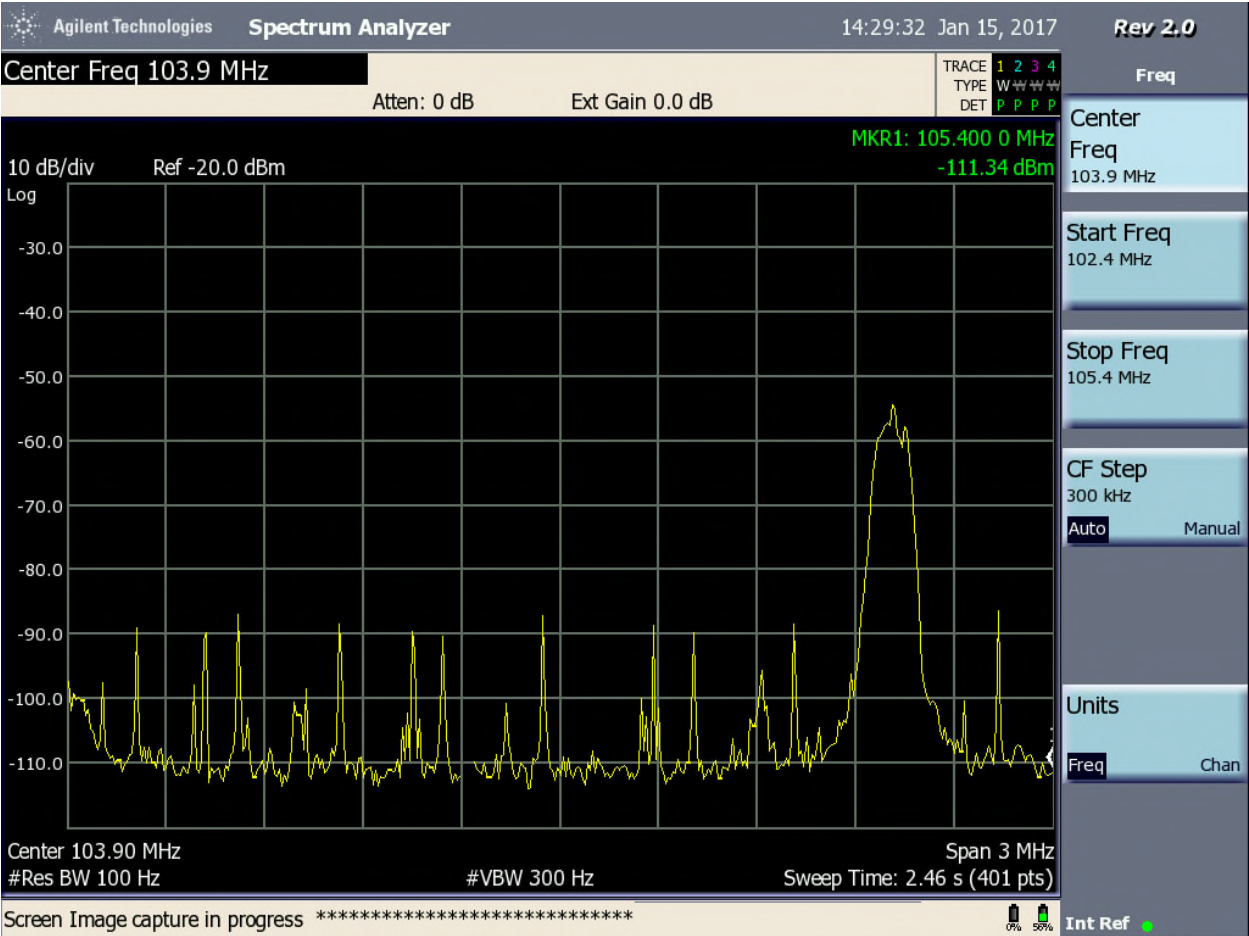


Figure 2 - 103.9 MHz Off

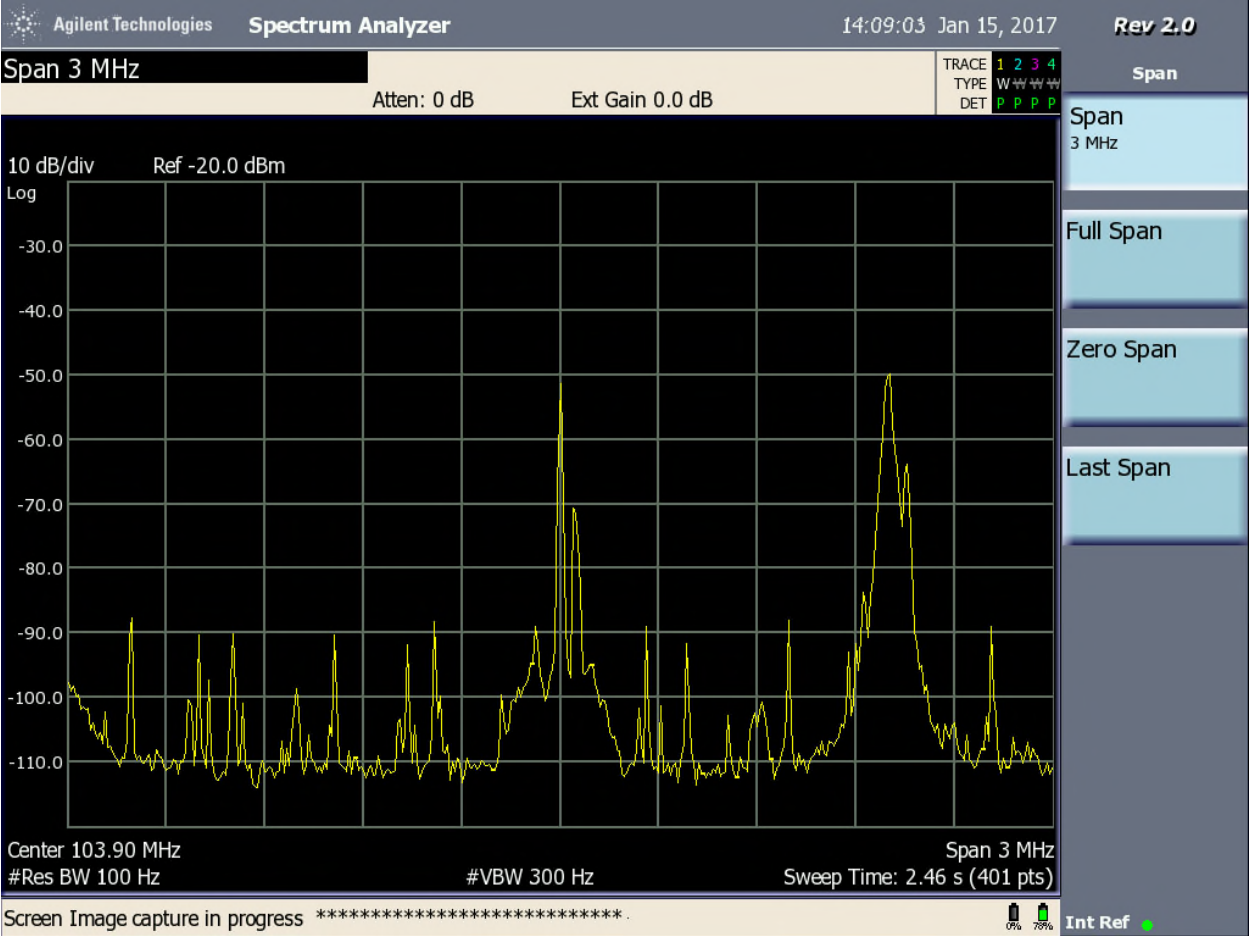


Figure 3 - 103.9 MHz On

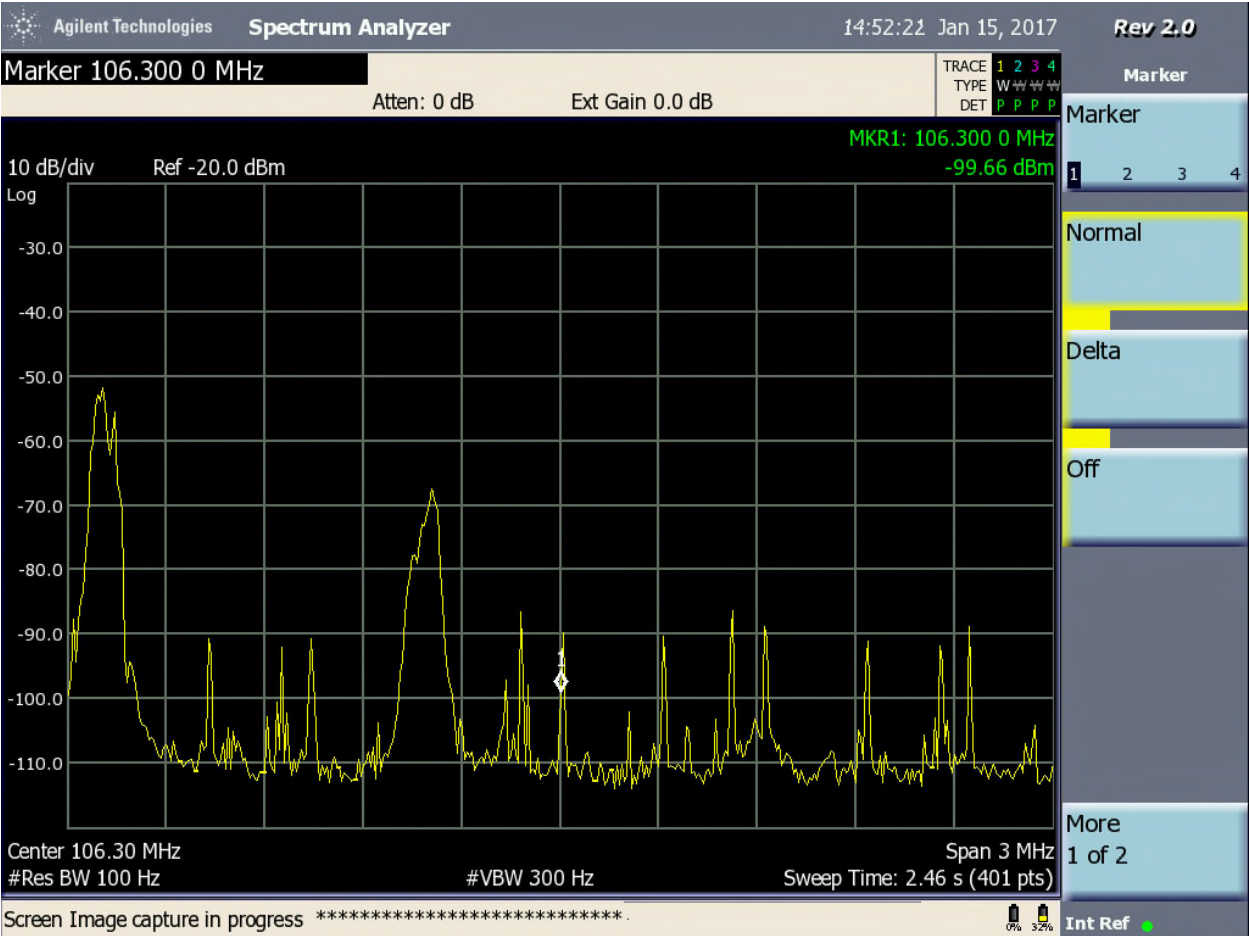


Figure 4- 106.3 MHz All Off

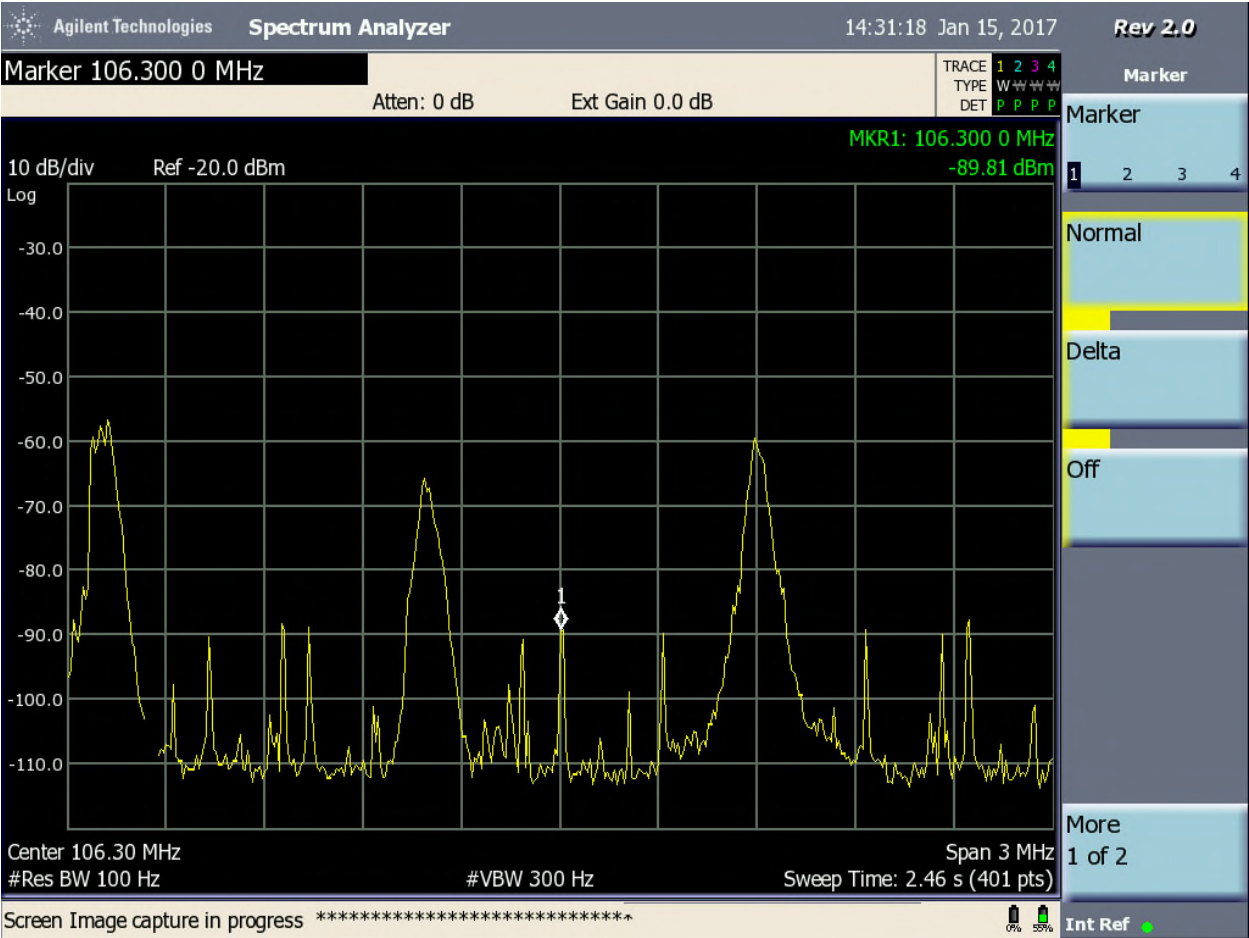


Figure 5 - 106.3 MHz Off



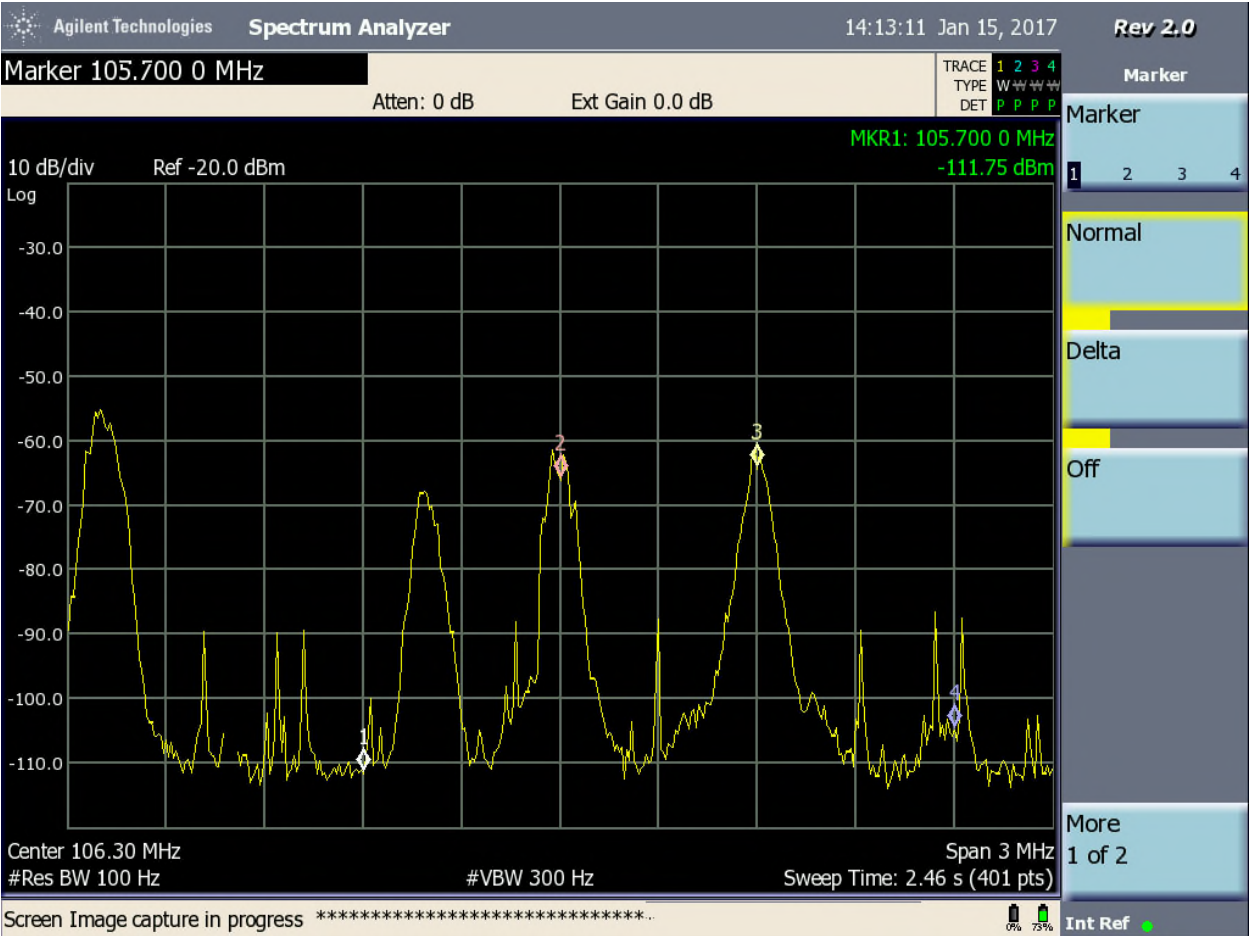


Figure 6 - 106.3 MHz On

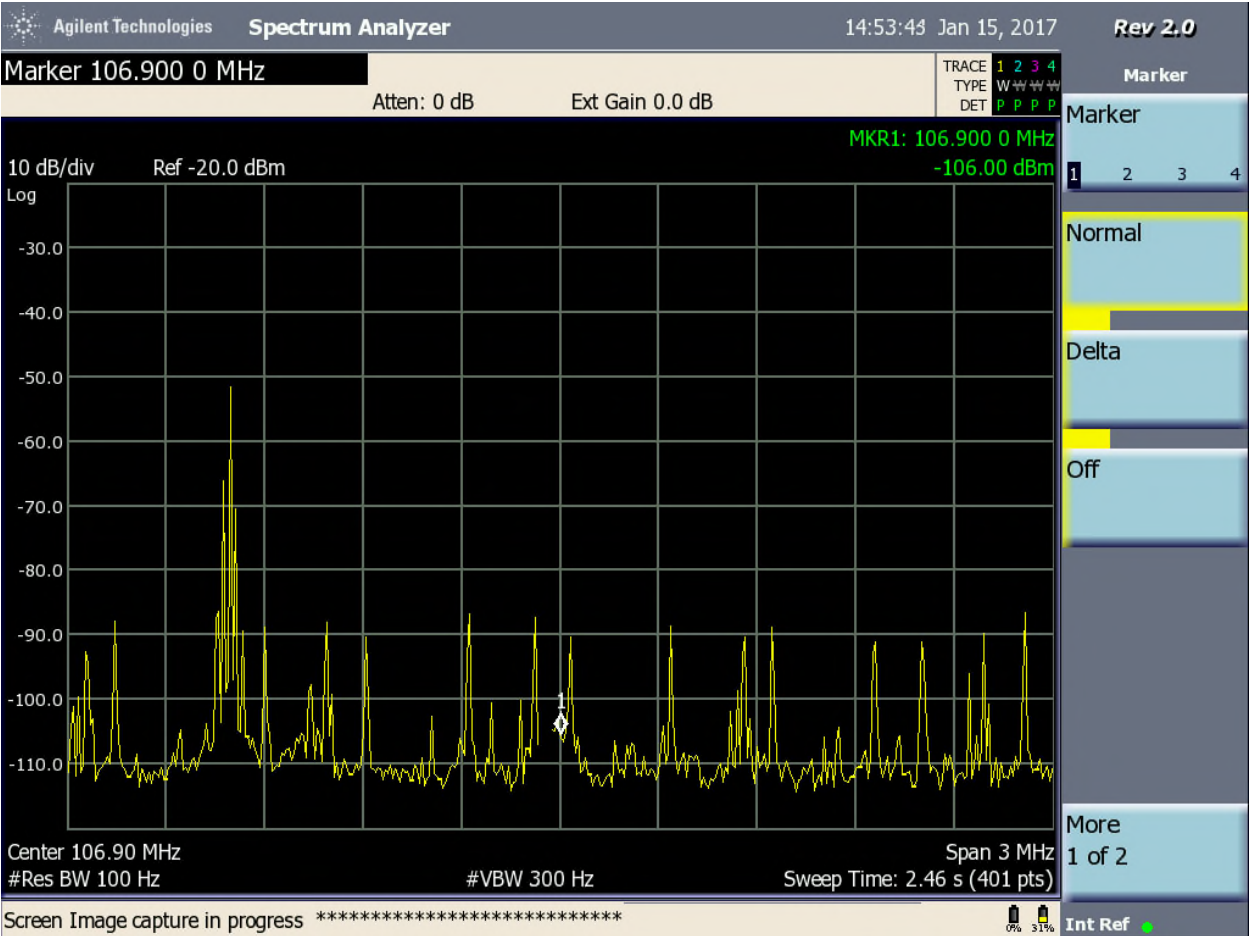


Figure 7 - 106.9 MHz All On

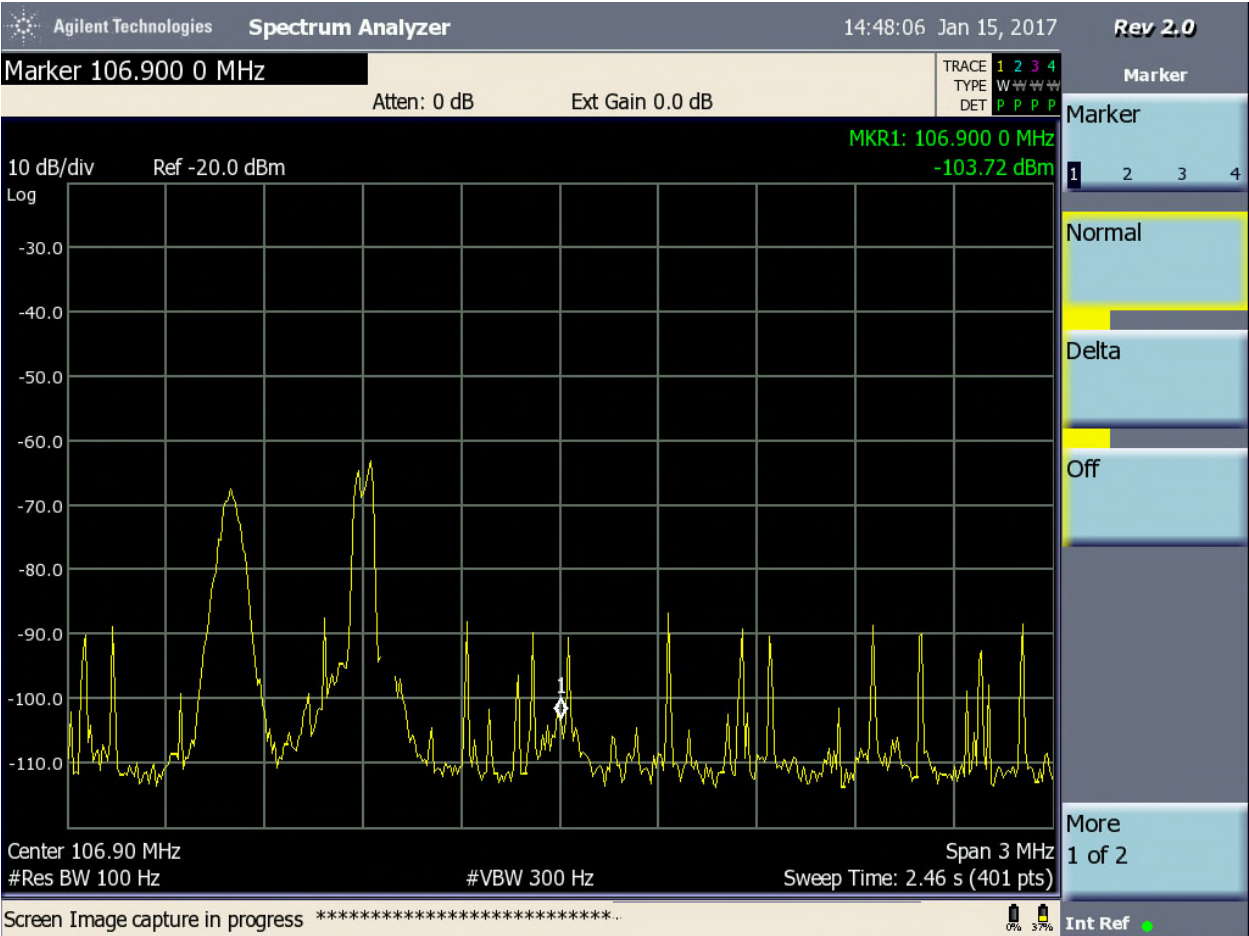


Figure 8 - 106.9 Off

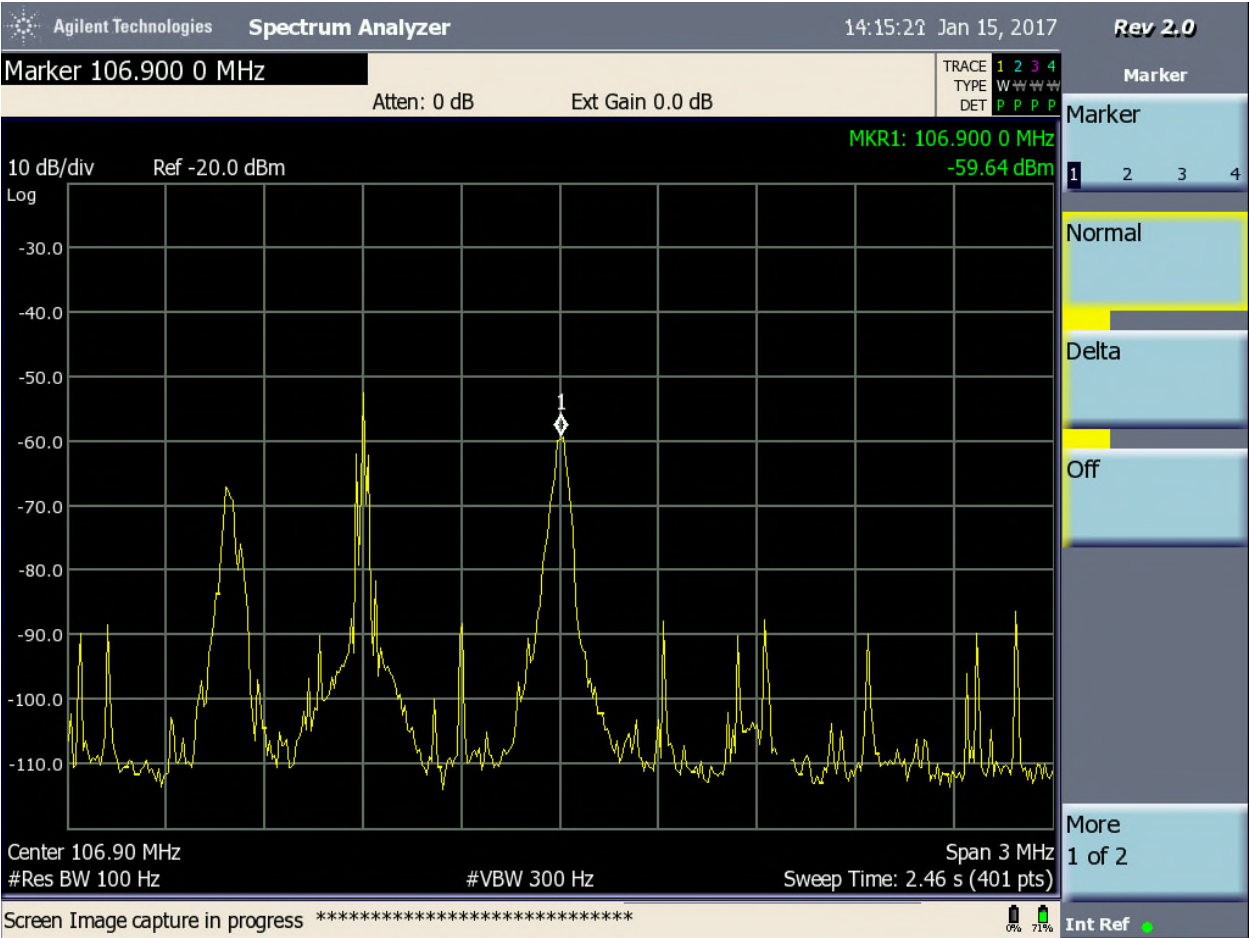


Figure 9 - 106.9 MHz On