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This report has been prepared in support of an application for a license to cover construction permit BPFT-20130523AAO to demonstrate the compliance of FM translator station K221BI Chan 221D, Wenatchee, WA with the transmitter system emission requirements specified in §73.317 of the Rules & Regulations of the Federal Communications Commission. These measurements were taken on June 4, 2015, using a HP 8591E spectrum analyzer, connected to the -55 dB sample port of an in-line Bird watt meter between the output of the transmitter combiner and the antenna. K221BI operates into a common antenna with FM translator stations K208EY, K232ED and K286CA. All four stations were operating at their respective authorized powers and with normal program modulation at the time these measurements were taken. The spectrum analyzer measurement attached to this report show the spectrum across a .5 MHz span centered on the Channel 221. With the K221BI carrier unmodulated, the amplitude of the spectrum analyzer was adjusted to place the carrier amplitude at the top of the spectrum analyzer screen. Modulation was then restored and all subsequent measurement included or referenced in this report was taken at the same amplitude setting. A sweep of the spectrum from 75 MHz through the 10th harmonic of K221BI detected no emissions above -80 dBc, with the exception of the carriers of the four translator stations operating into the antenna. As demonstrated by these measurements, all emissions are within the mask specified in §73.317

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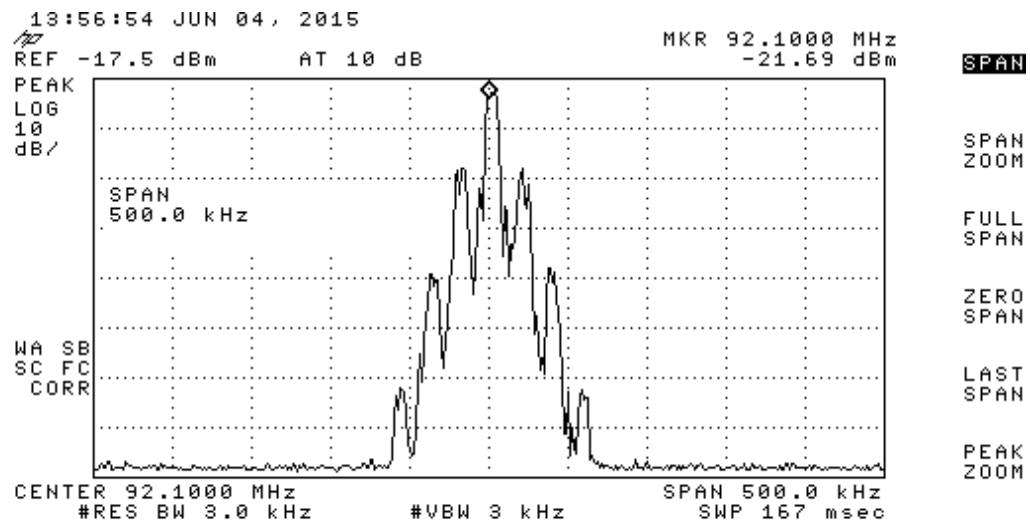


Figure 1

Normal Program Modulation

K221BI

Wenatchee, WA

ERP: 99W

Required Attenuation > 600kHz from carrier: -63 dBc