

Project Number: 99ME45100

Issue Date: November 19, 1999

File Number: NC3932

Model: FFPA-8689-120 (Amplifier) and HPC8689-400 (Shelf)

FCC ID: MCD FFPA8689-120

Two Signal Intermodulation Distortion Measurement

Test Procedure

Two signals were applied to provide two-tones that would produce 3rd order intermodulation (IMD's) that would fall out of the 869-894 MHz transmit cellular band and other 3rd order IMD's that would be in the 869-894 MHz transmit band. The signals were modulated with AMPS, TDMA, and CDMA. The input was adjusted to produce and output of 50.8 dBm out of the amplifier, 50.0 dBm out of the shelf.

The frequency range from 30MHz to 10GHz was investigated for conducted spurious emissions. This measurement was performed to ensure that any out-of-band emissions produced by the intermodulation of the two injected frequencies were at least 60dB down from the fundamental.

Results:

No out of band emissions were found to be within 60dB of the injected frequencies.

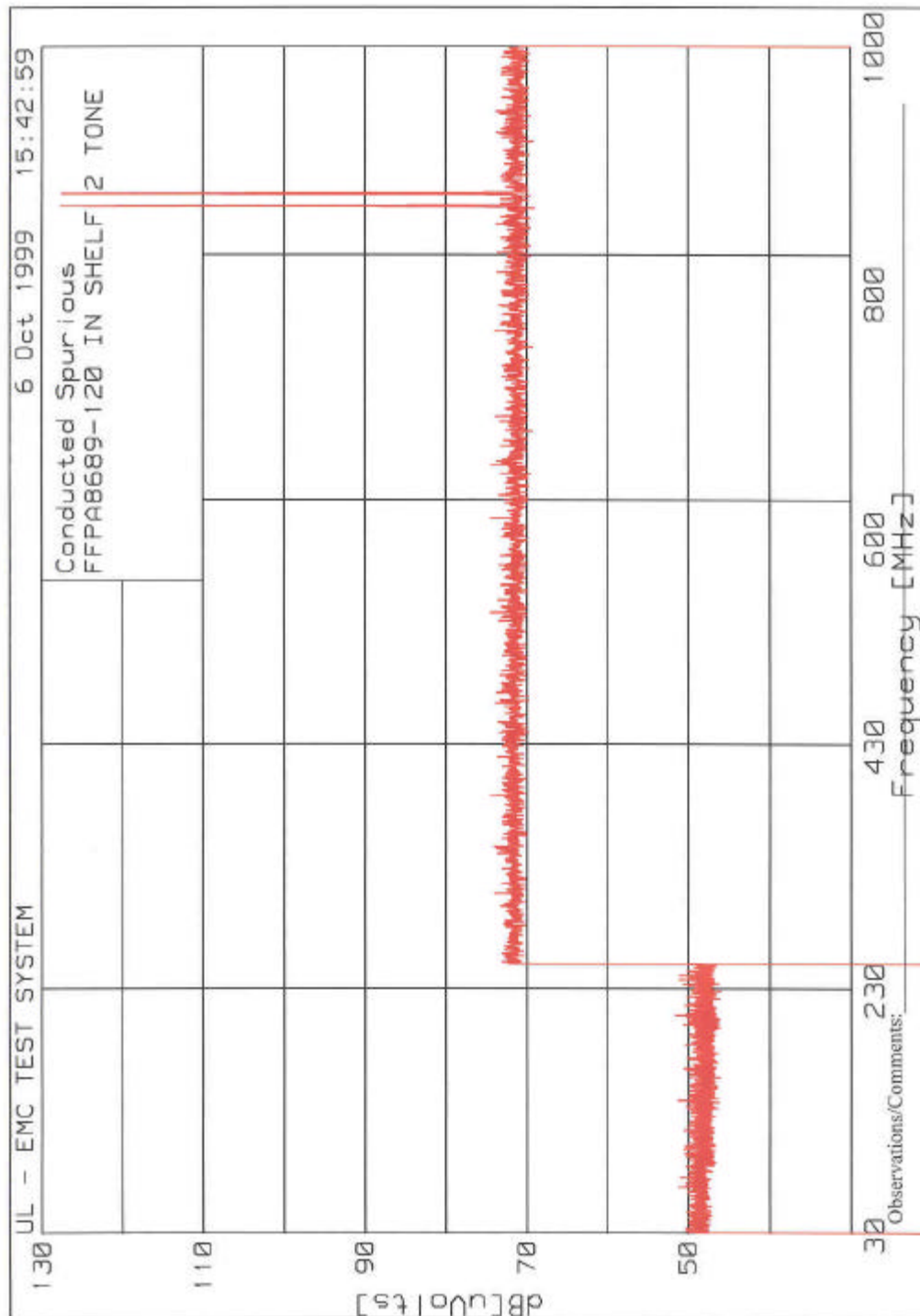
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Tested By: Vid-Vol

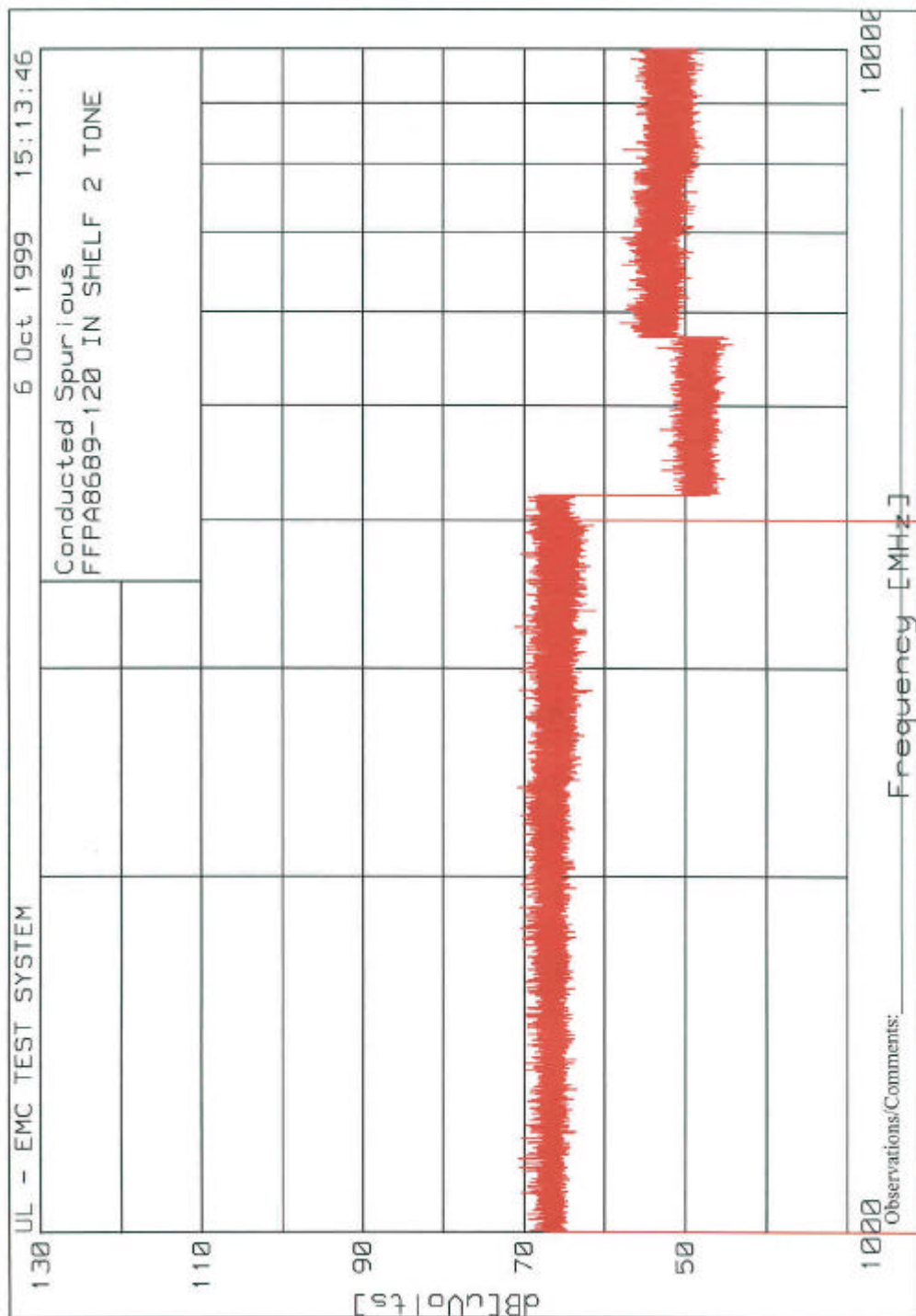
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Tested By: W.D. Wink

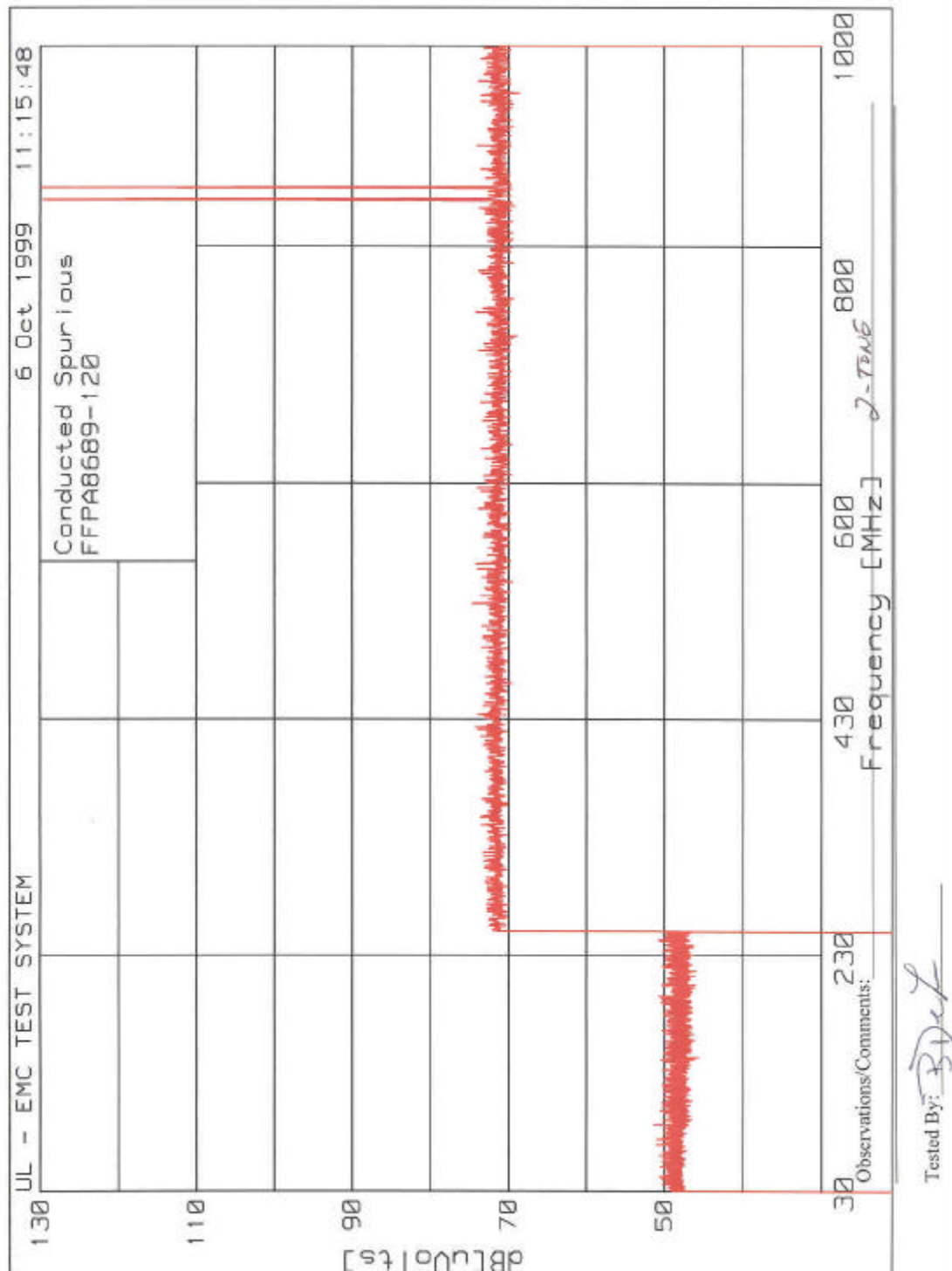
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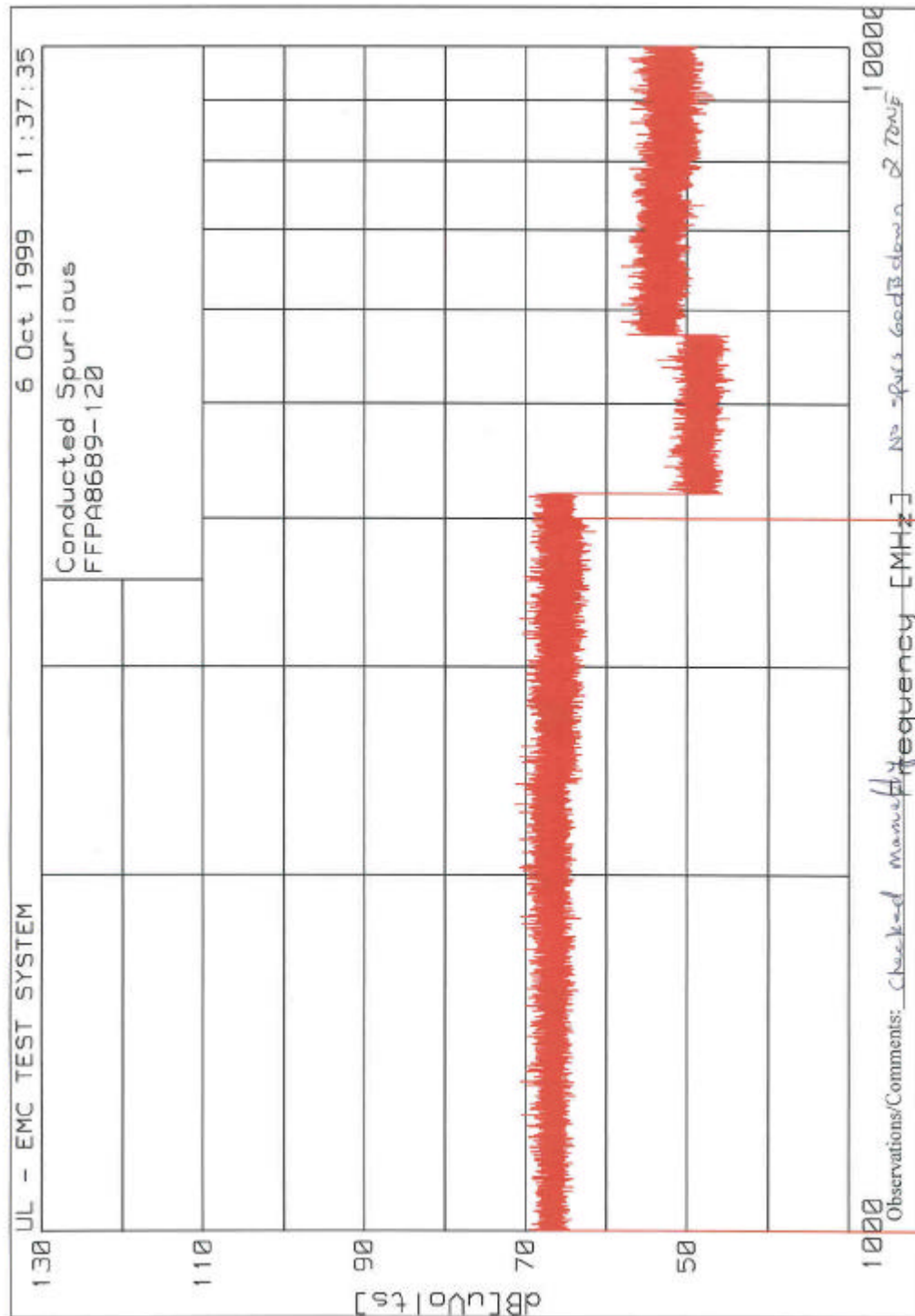
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