

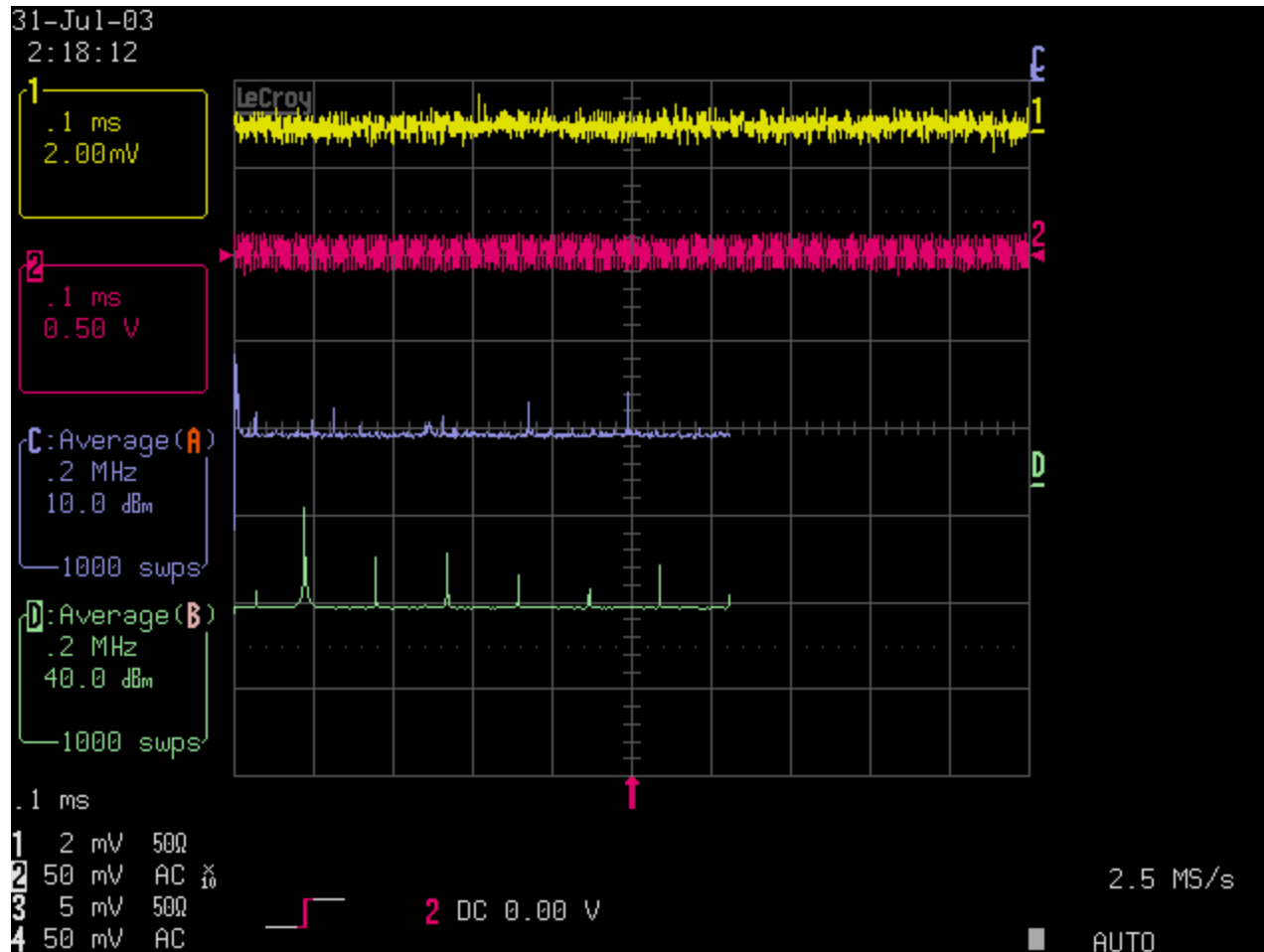
## New Iseg

Trigger on oscillator pick-up ~1" above the cw multiplier.

Compare Fourier power spectrum (ave. over 1000 spectra) between coaxial output and oscillator pick-up.

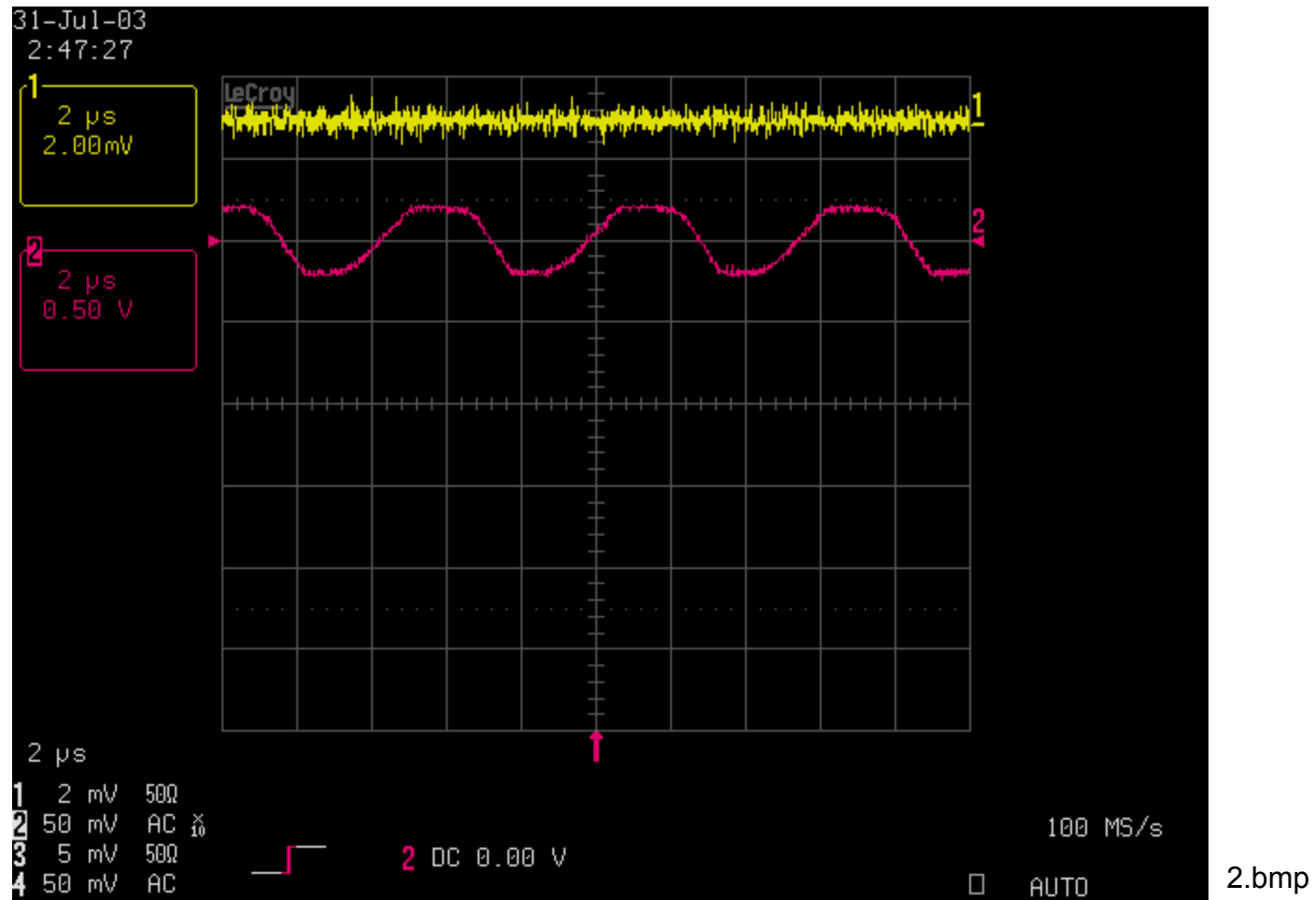
The only match found is around ~50kHz.

HV enabled. DAC=4000



1.bmp

This is the coax output (top) and the oscillator pickup(bottom)



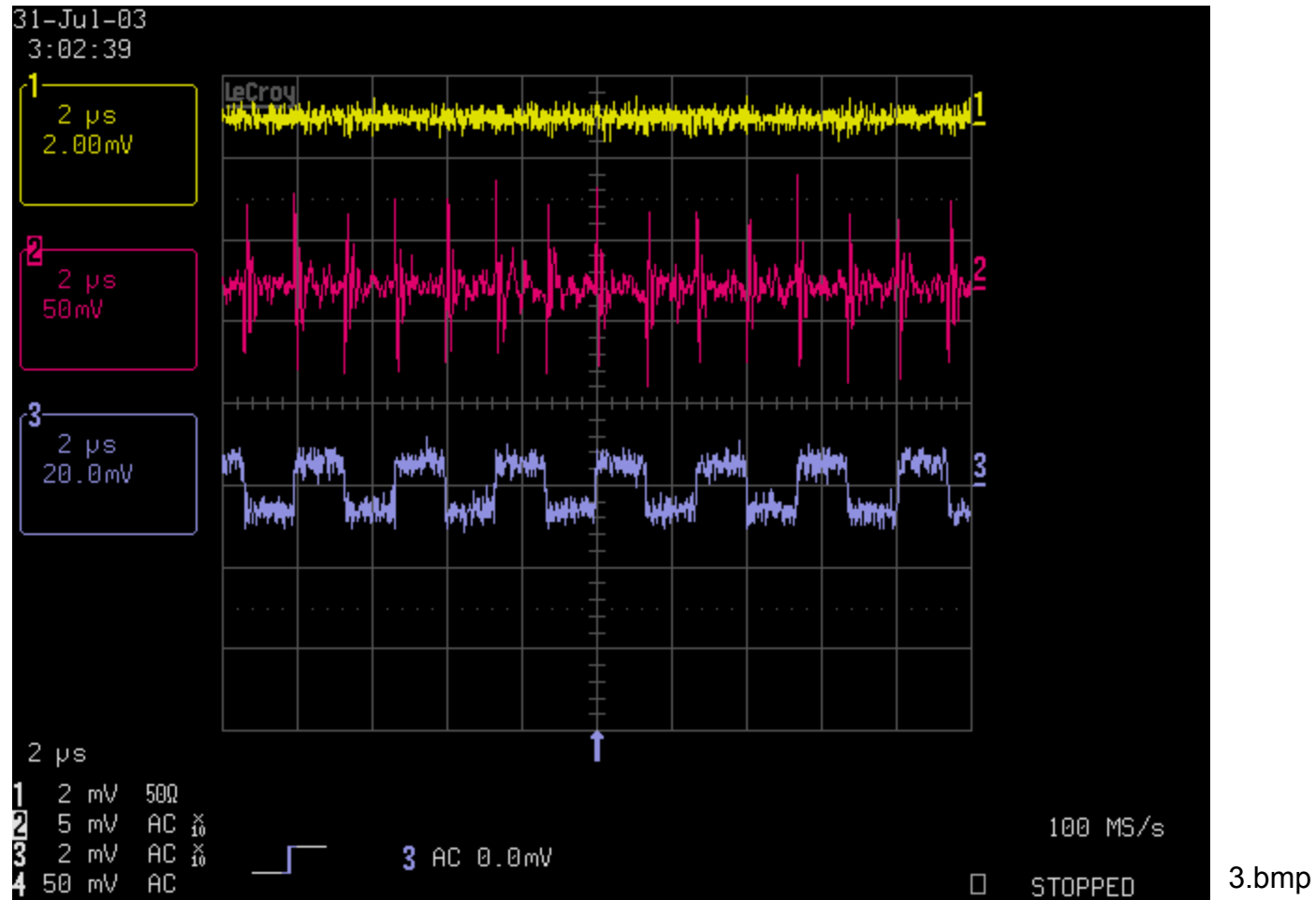
The oscillator signal when HV is disabled.

The same signals are present when HV is enabled, but the pick-up signal is swamped by the cw noise.

Top: coax output

Middle: 10x probe touching the core of one of the transformers

Bottom: 10x probe on the Burr-Brown dc/dc converter case.



Noise across the  $1\text{M}\Omega$  resistor w.r.t. analog side ground. (HV disabled)

