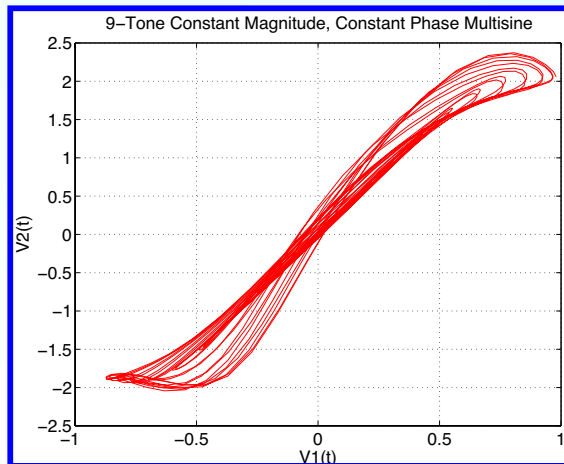


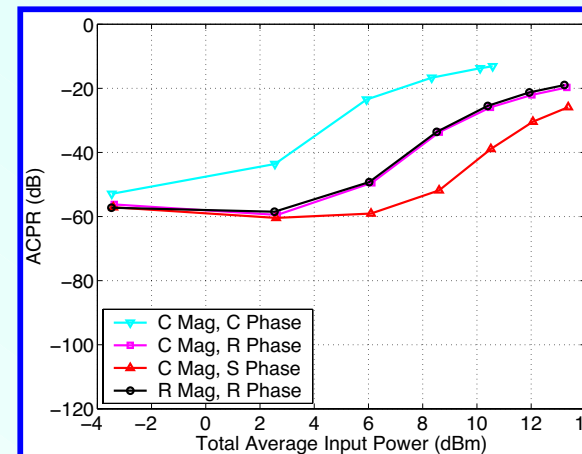
- Kate Remley: Nonlinear Device Characterization Project (with Don DeGroot, Jeff Jargon)
- Guest researchers:
 - Dominique Schreurs
 - Fabien Ndagijimana

- Equipment:
 - LSNA
 - vector signal analyzer
 - vector signal generator
 - simulation software
 - 40 GHz broadband receiver

Research Topics Include: Multisines for System Test

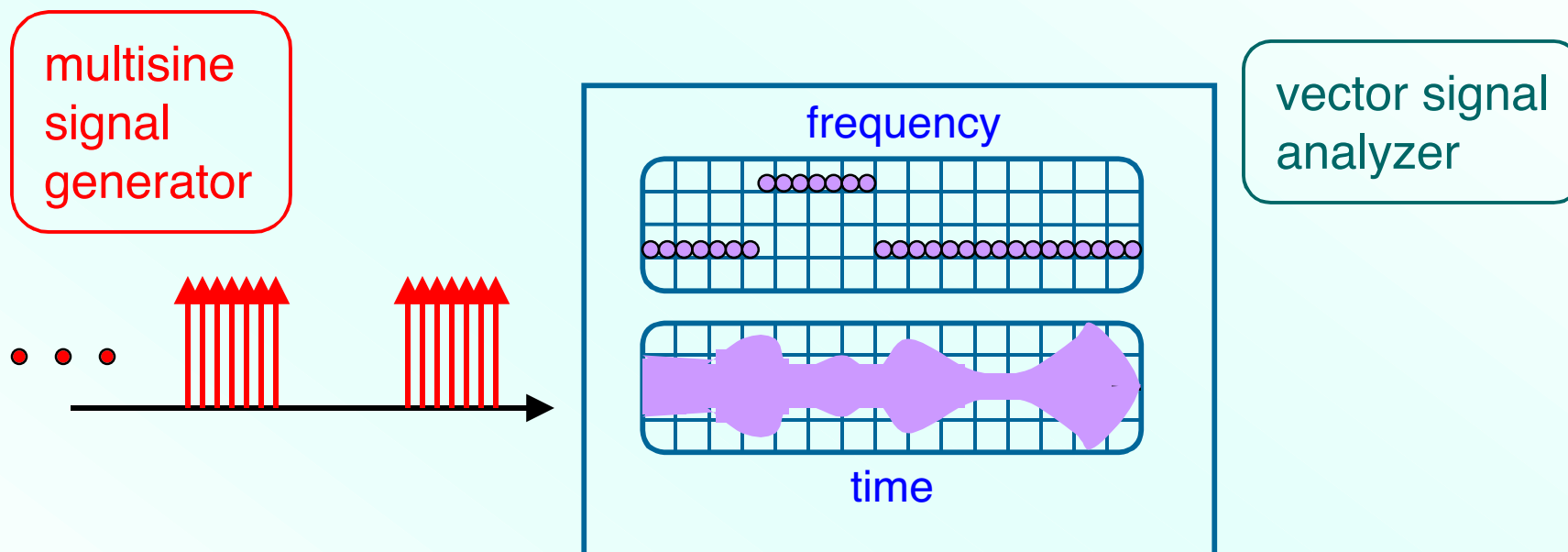


Compression tests (measured on LSNA)

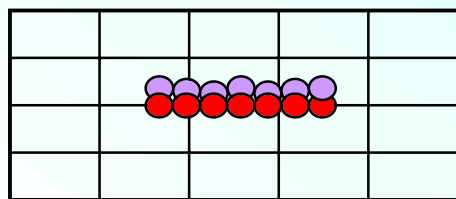


ACPR: power amplifier(measured on LSNA)

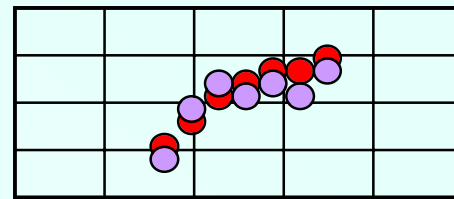
For vector signal analyzers, LSNA's, other receivers



0 dBm



magnitude



0°

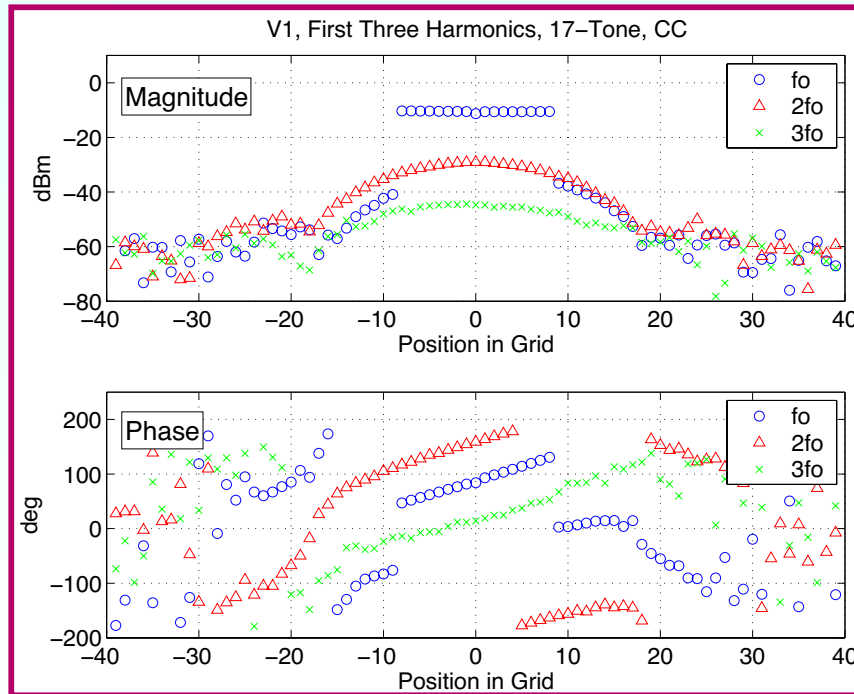
phase

Differences between “known” and “measured” = calibration coefficients

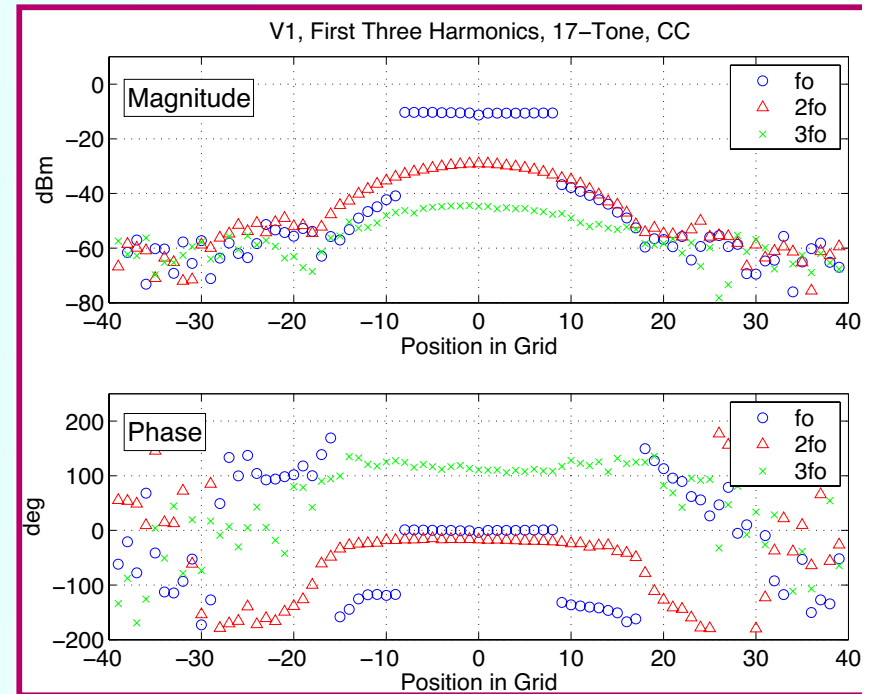


Phase Detrending of Measured Multisines

Magnitudes and phases before and after detrending



phases not detrended



phases detrended

I will demonstrate the detrending algorithm after User's Forum!