

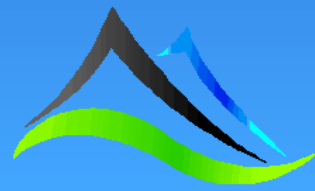
Signal Processing

We don't need black boxes!

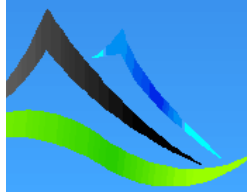
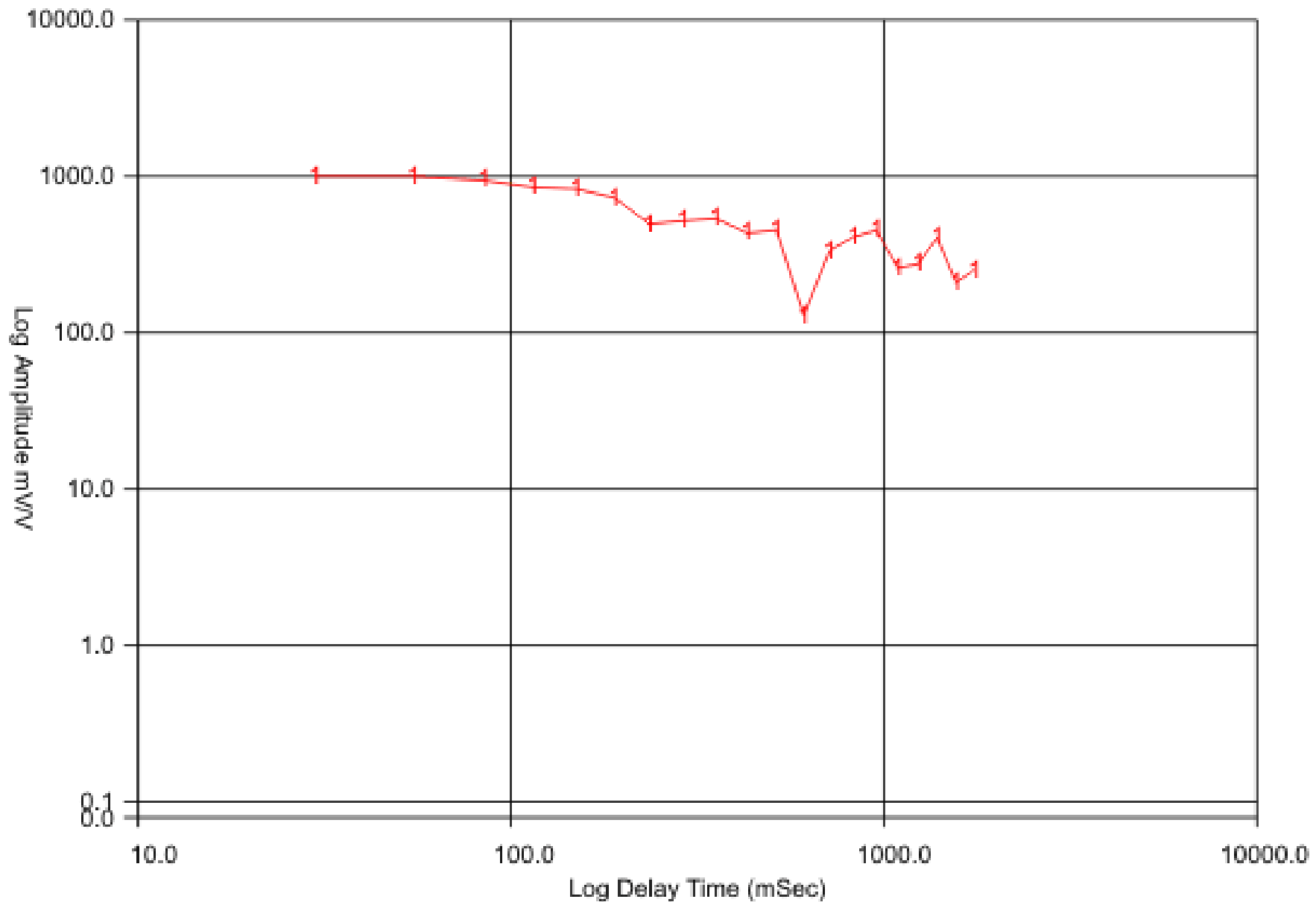
Kim Frankcombe
ExploreGeo

Modern 3D-IP surveying. Practical techniques
and short cuts.

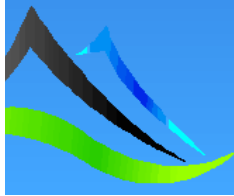
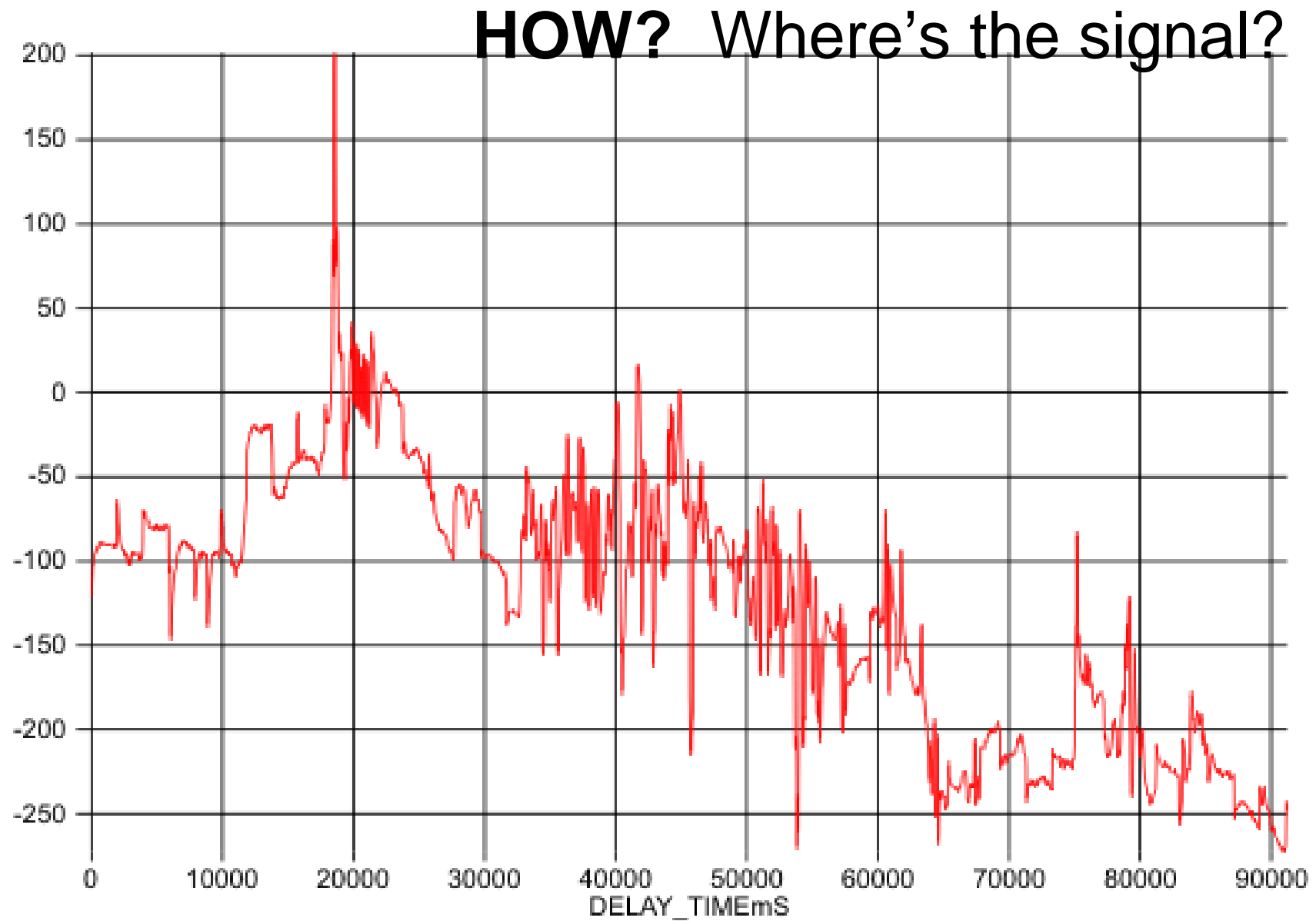
ASEG Conference - Perth 2015



What produced this decay?



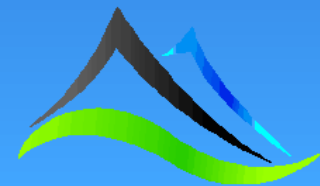
This did!



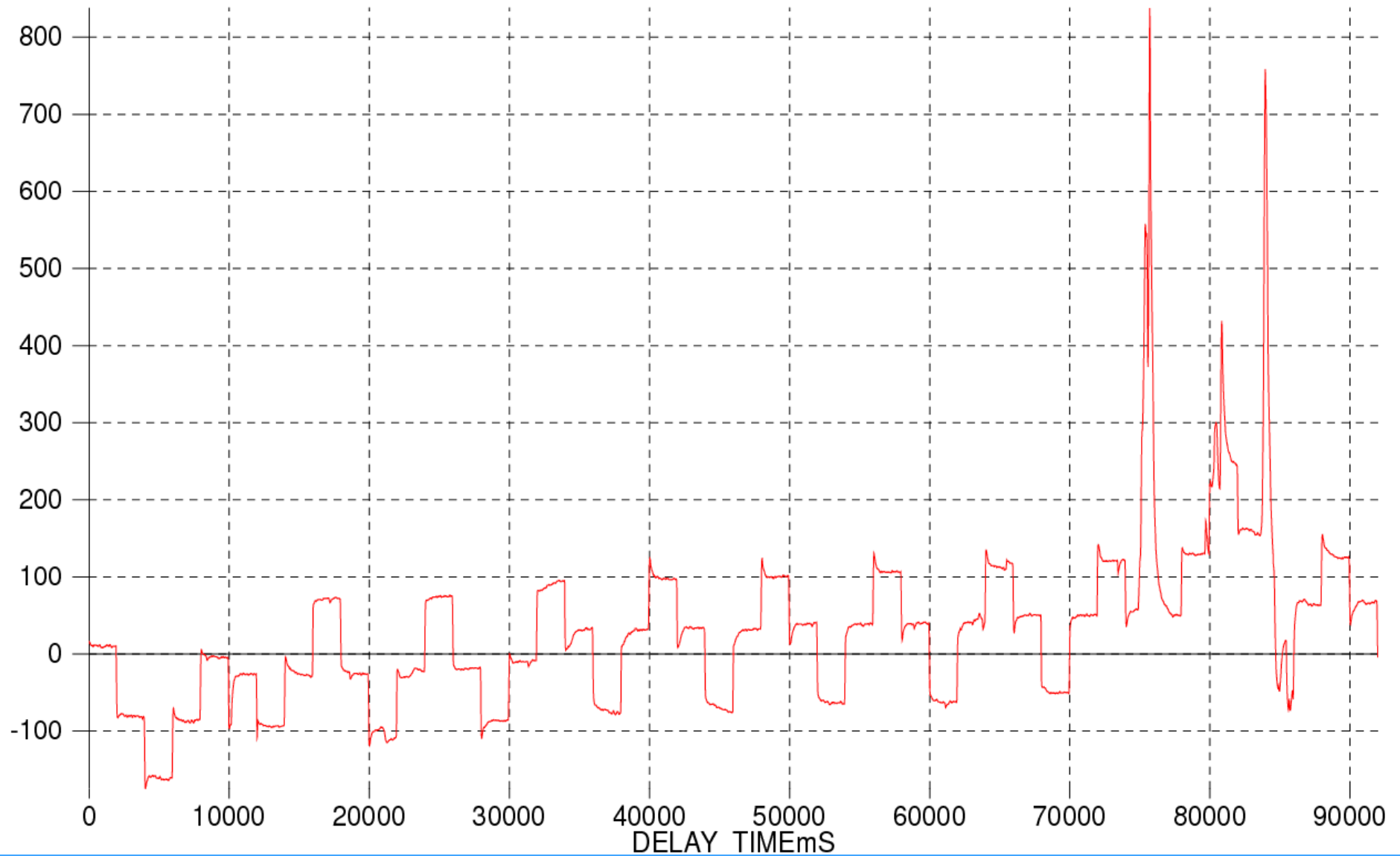
So what do we do?

Start a conversation - get a test data set

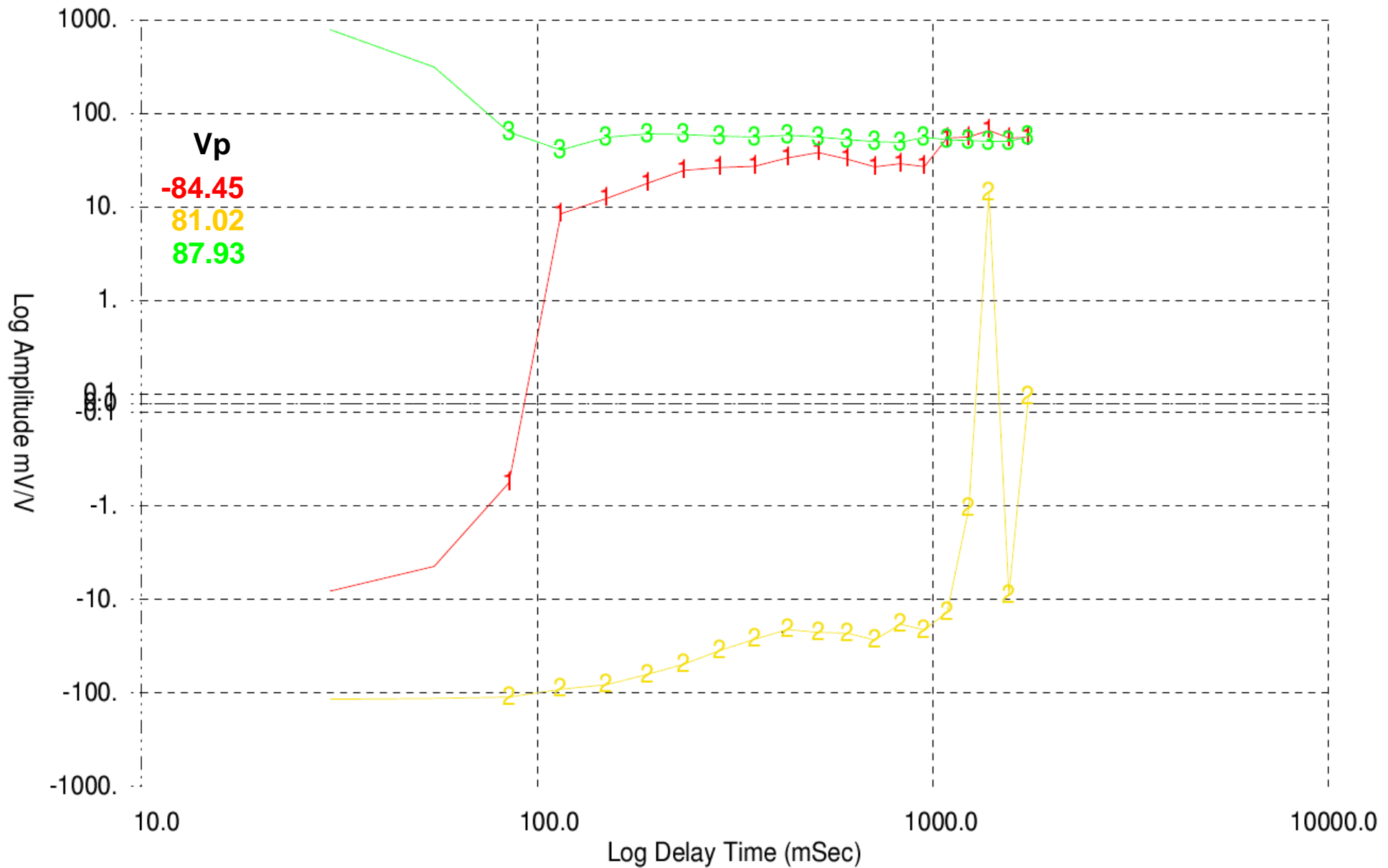
- 24 IP fullwave data sets, 20 from GDD, 4 from Search Rx
- 13 EM fullwave data sets all from Smartem 24
- Open Challenge to take fullwave and convert to stacked and binned decays and calculate V_p using the same time windows as the OEM
- 17 people said they would give it a go
- 2 submitted IP data, 1 submitted EM data.
Plus Several dog ate my homework stories.



Example Fullwave IP



3 decays from this data set





We deserve better!

What most end users believe is RAW data is actually heavily interpreted and arguable not always well interpreted!

We need open and testable processing workflows so that we understand how the decay was created and have some confidence in our data.

