THS3001 issues,

Large signal high slew rates get into a secondary non-linearity beyond slew limiting. This is a swept F test, but a super fast large edge is probably going into another mode and then slowly coming out – we used to call this sgueging in CLC.



And then here is some more data laying the THS3491 measured data on top of this,



I did find one swept gain noise comparison to the THS3091, a similar effort to this could be done to the THS3001 – part of the keys here is the lower Rf values for the THS3491.

