Heads-up on Work to Broaden the General Market Presence

Slight SDD21 Channel Compliance Compromise

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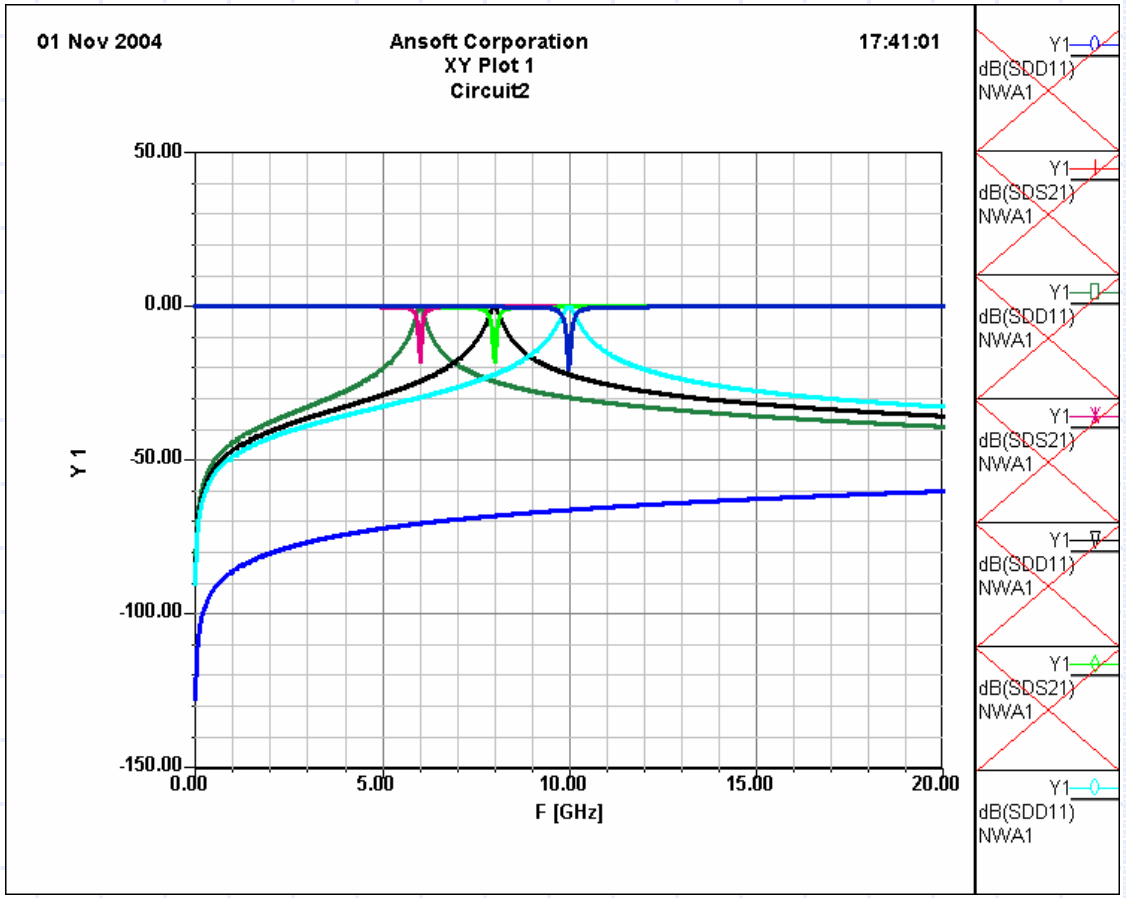
Rational: Broaden the General Market

- Many channels are above the proposed ad hoc SDD21 line below Nyquist and below SDD21 above Nyquist.
- Can all channels that are above the SDD21 line work?
  - If not, what are the characteristics of channels above the line that don't work?
- Question that comes to mind:
  Does any of this really matter?
- What slight compromises can we make to widen the general market

Work in Progress

- Determine if the effects of deep SDD21 notches below the spec line above Nyquist do not effect performance
- Determine if the effects of positive deviations in SDD21 anywhere in the range impact performance.
  - I.e. the ripple factor
- Procedure will be to cascade s-parameters with known pathological effects, like notches, to ad hoc channels and then evaluate the eye opening or the like.

Examples of effects that can be cascaded with channels responses: 6GHz, 8GHz, 10GHz notch



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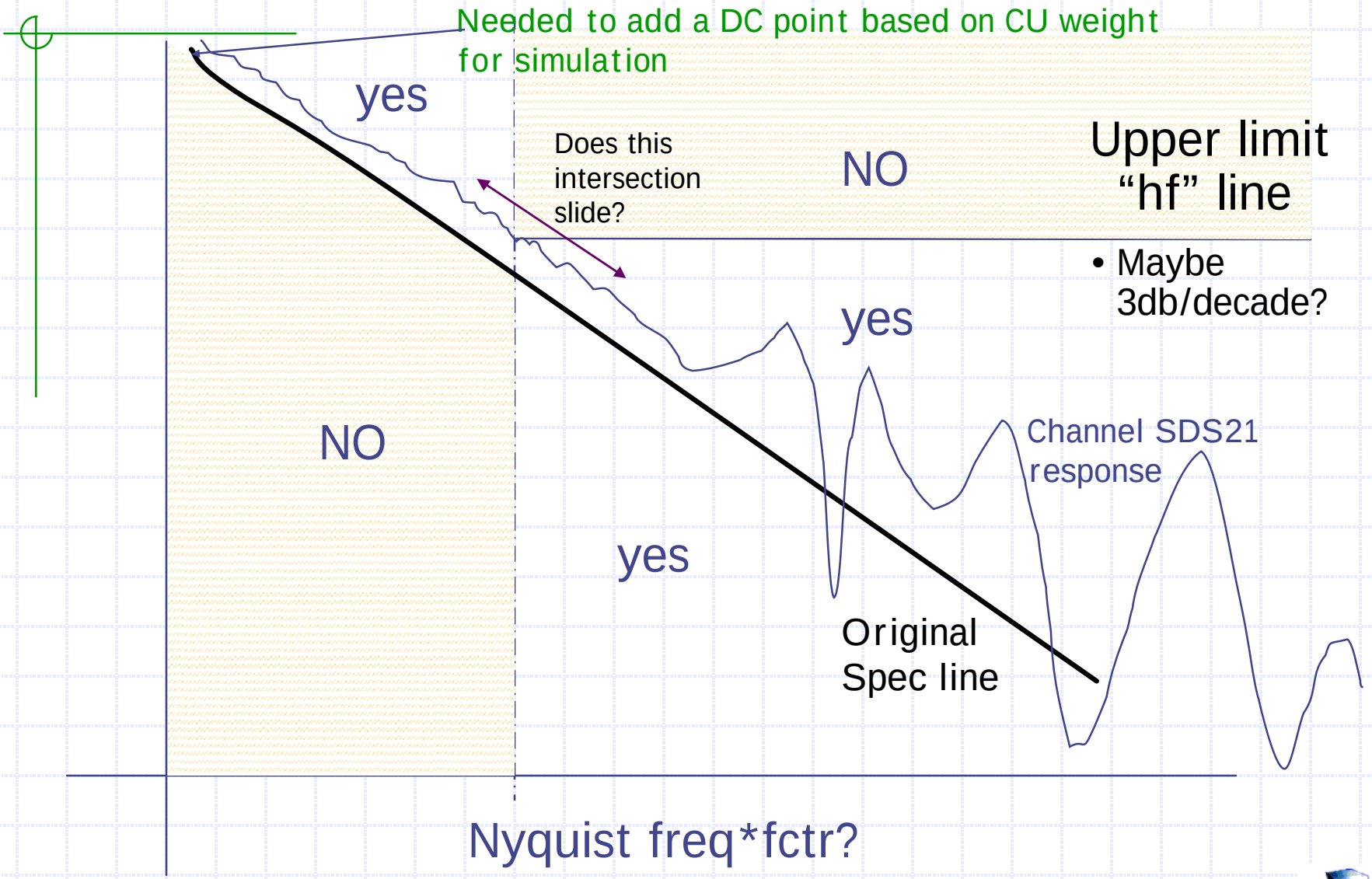
Some thoughts so far



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Question to group:

- Can we agree in principle to consider a compromise to the SDD21 spec line if it will broaden the general market presence?
  - Assuming there is data to support this.
- Consider that a loss model that looks like a uniform lossy transmission line is not the whole story.