

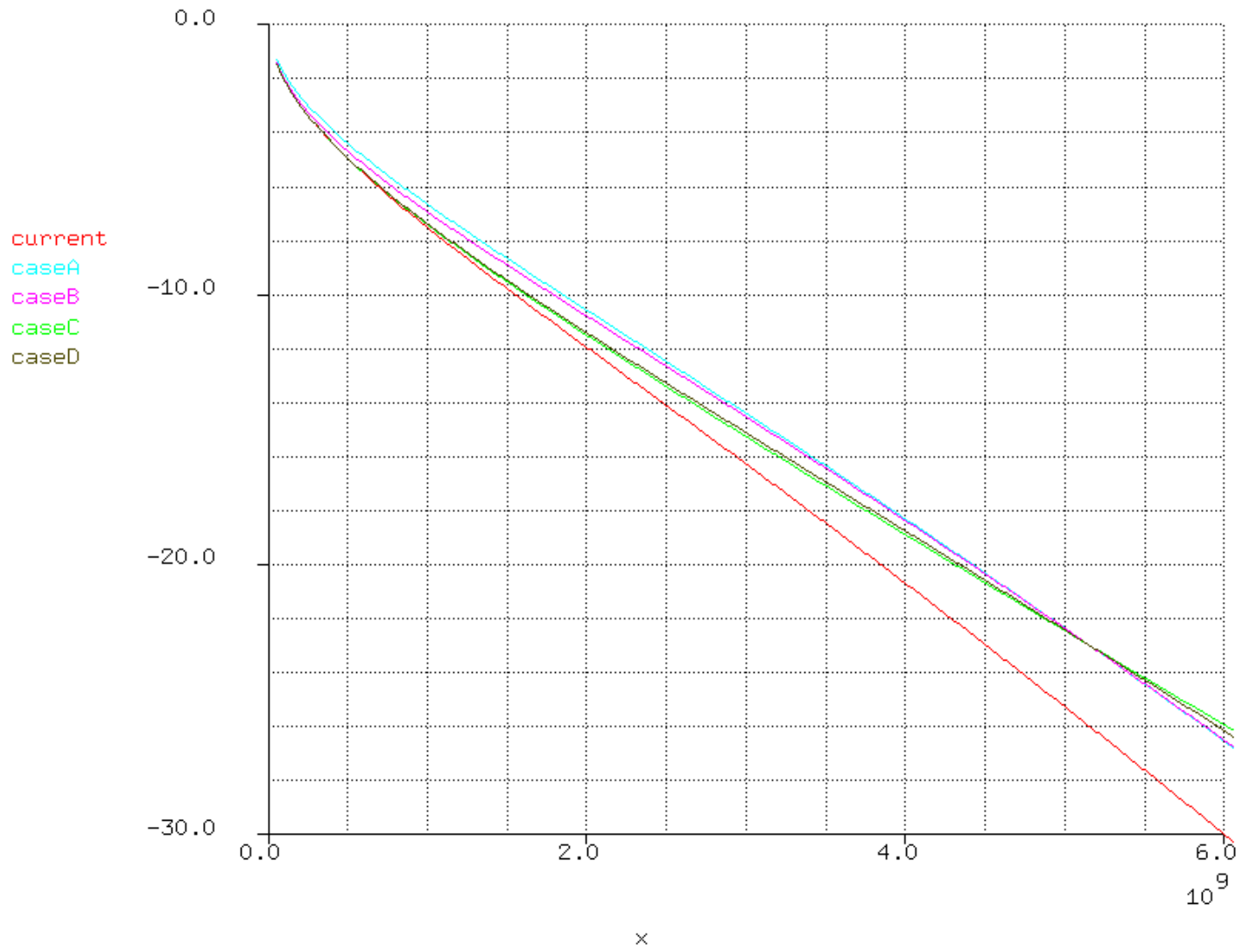
Parameters for lower loss channel

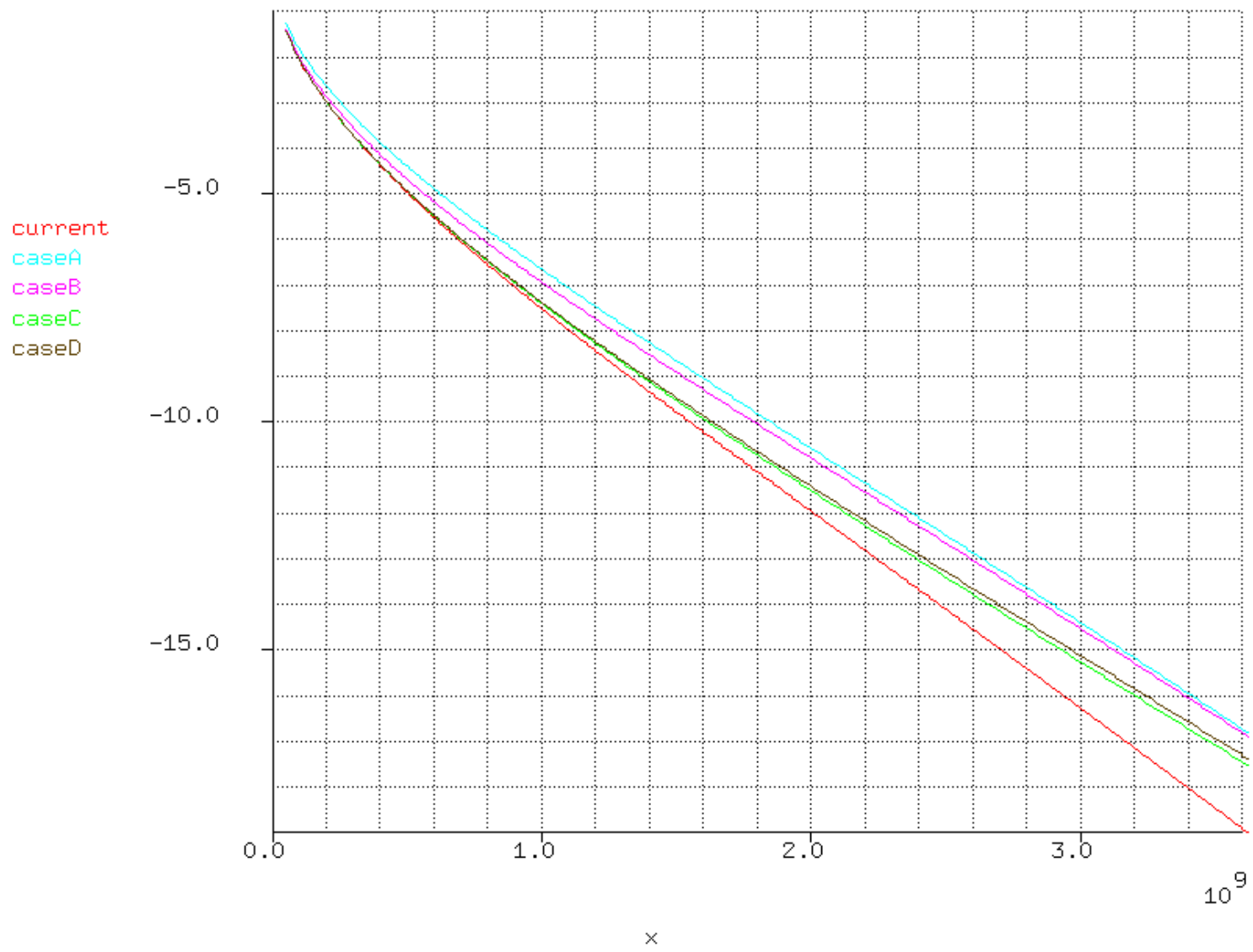
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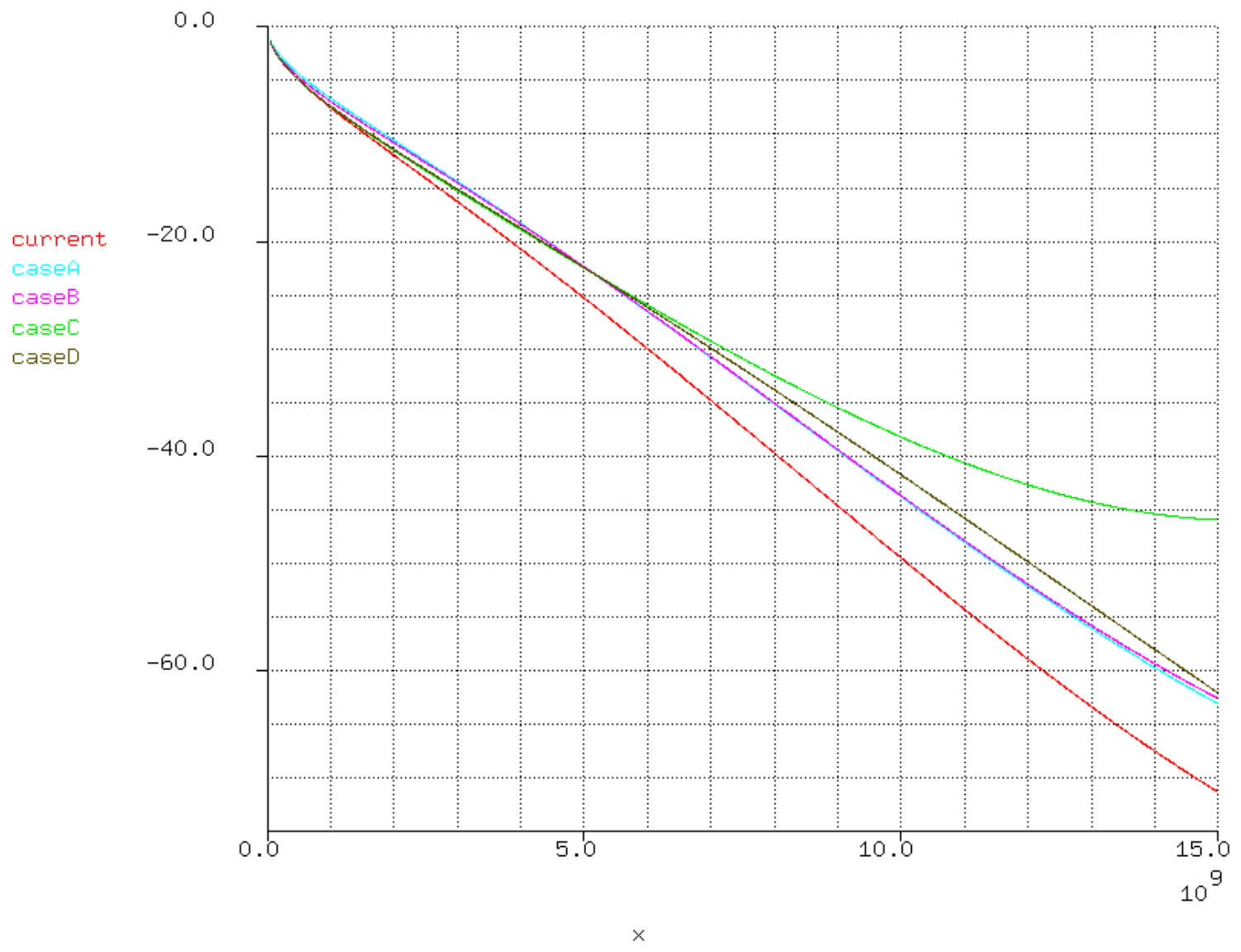
I have 4 sets of $b_1\dots b_4$ prepared but i can produce other cases fairly easily. The cases are:

- Case A: Simply scale all b s by $23/26$. This would reflect what would happen if the channel were just shortened.
- Case B: Scale only b_2 . This assumes that attenuation will be reduced by reducing dielectric loss, and that dielectric loss is reflected primarily in the linear term, b_2 .
- Case C: Scales only b_3 . I thought that you might more attenuation at low frequencies than Case B gives. Changing b_3 can reduce attenuation at Nyquist with very little change around 1GHz.
- Case D: Case C looked really ugly above 10GHz so i adjusted both b_3 and b_4 .

Curves:







Values:

Current spec:

b1= 2.25e-5
b2= 1.20e-10
b3= 3.50e-20
b4=-1.25e-30

Case A:

b1= 1.99e-5
b2= 1.06e-10
b3= 3.10e-20
b4=-1.11e-30

Case B:

b1= 2.25e-5
b2= 5.30e-11
b3= 3.50e-20
b4=-1.25e-30

Case C:

b1= 2.25e-5
b2= 1.20e-12
b3= 2.20e-20
b4=-1.25e-30

Case D:

b1= 2.25e-5
b2= 1.20e-12
b3= 1.77e-20
b4=-4.10e-31