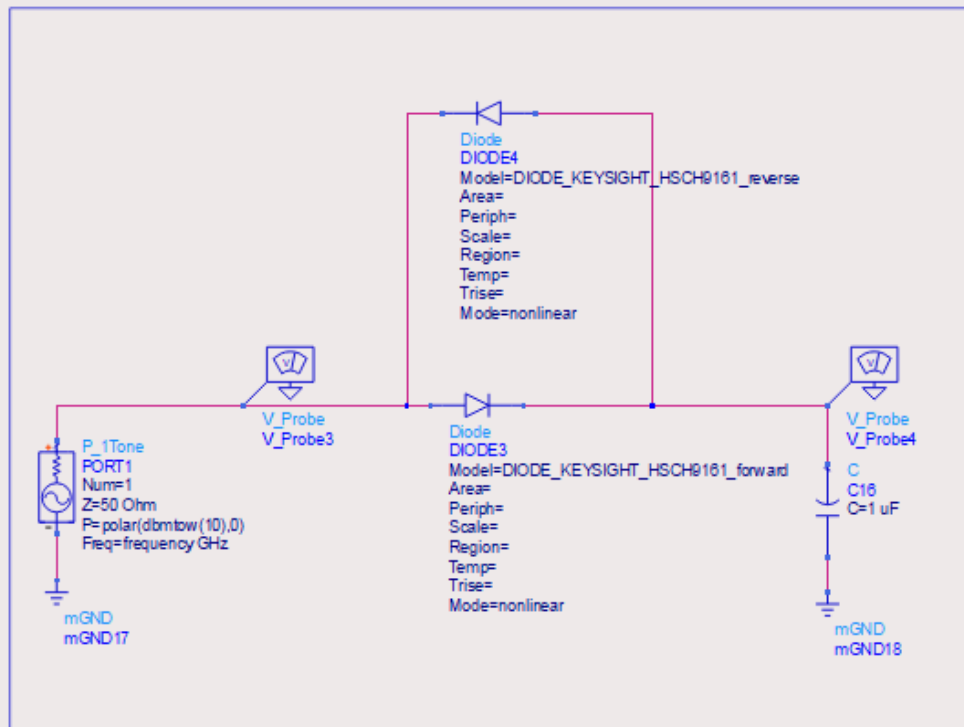
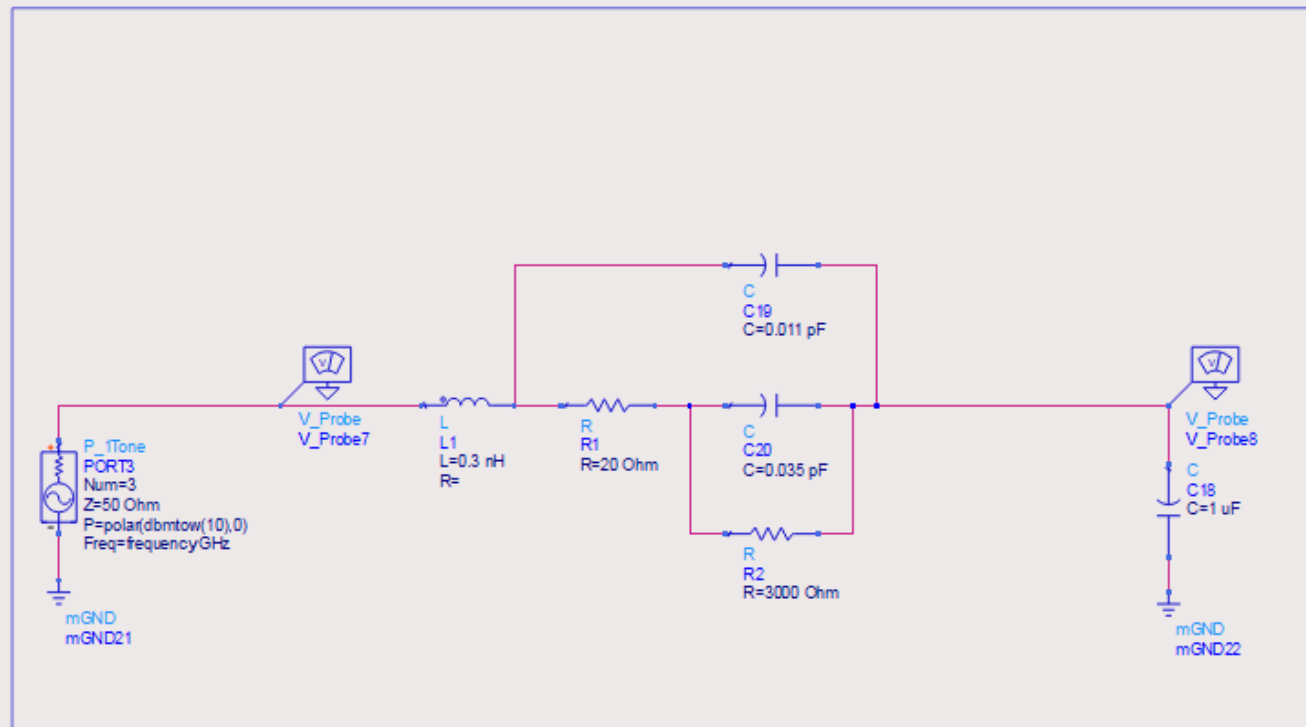


Simulation avec approche diode forward/reverse



Simulation approche schéma equivalent petits signaux



Diode Model
DIODE_KEYSIGHT_HSC9161_reverse
Is=84e-8 Bv=10 Vjsw=
Rs=10 Ibv=10e-12 Fcsw=
Gleak= Nbv= AllowScaling=no
N=40 Ibv= Tnom=
Tt=0.1e-9 Nbv= Trise=
Cd= Kf= Xti=2
Cjo=0.030e-12 Af= Eg=1.42
Vj=0.26 Ffe= AllParams=
M=0.5 Jsw=
Fc= Rsw=
Imax= Gleaksw =
Imelt= Ns=
Isr= Ikp=
Nr= Cjsw=
Ikf= Msw=



Diode Model
DIODE_KEYSIGHT_HSC9161_forward
Is=12e-8 Bv=10 Vjsw=
Rs=50 Ibv=10e-12 Fcsw=
Gleak= Nbv= AllowScaling=no
N=1.2 Ibv= Tnom=
Tt=3e-12 Nbv= Trise=
Cd= Kf= Xti=2
Cjo=0.03e-12 Af= Eg=1.42
Vj=0.26 Ffe= AllParams=
M=0.5 Jsw=
Fc= Rsw=
Imax= Gleaksw =
Imelt= Ns=
Isr= Ikp=
Nr= Cjsw=
Ikf= Msw=



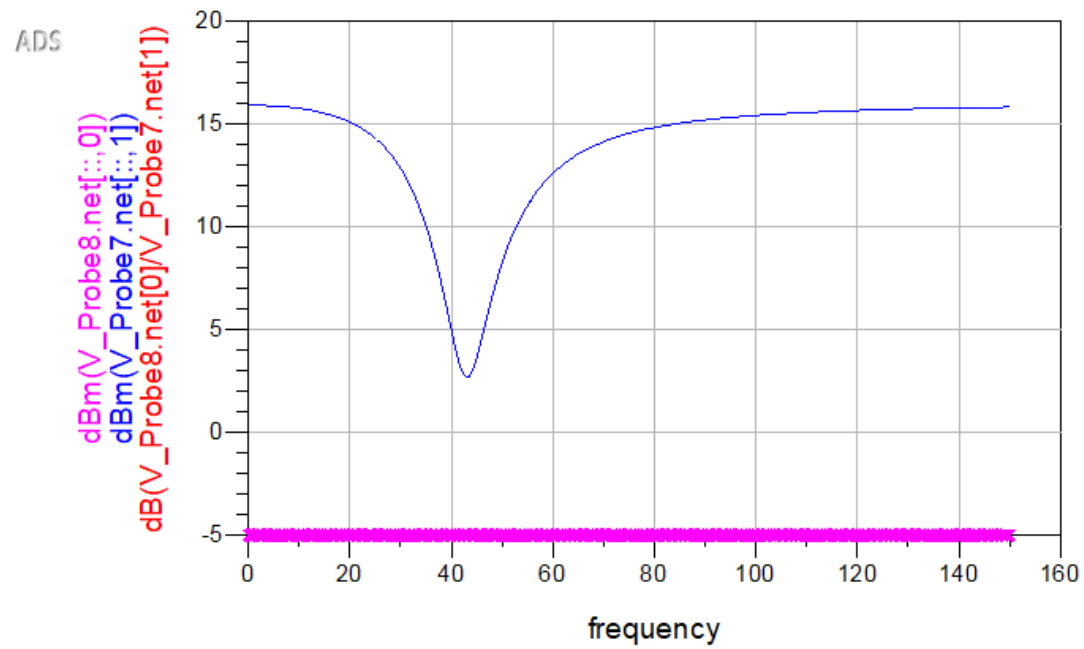
PARAMETER SWEEP

ParamSweep
Sweep1
SweepVar="frequency"
SimInstanceName[1]="HB1"
SimInstanceName[2]=
SimInstanceName[3]=
SimInstanceName[4]=
SimInstanceName[5]=
SimInstanceName[6]=
Start=0.01
Stop=150
Step=0.1

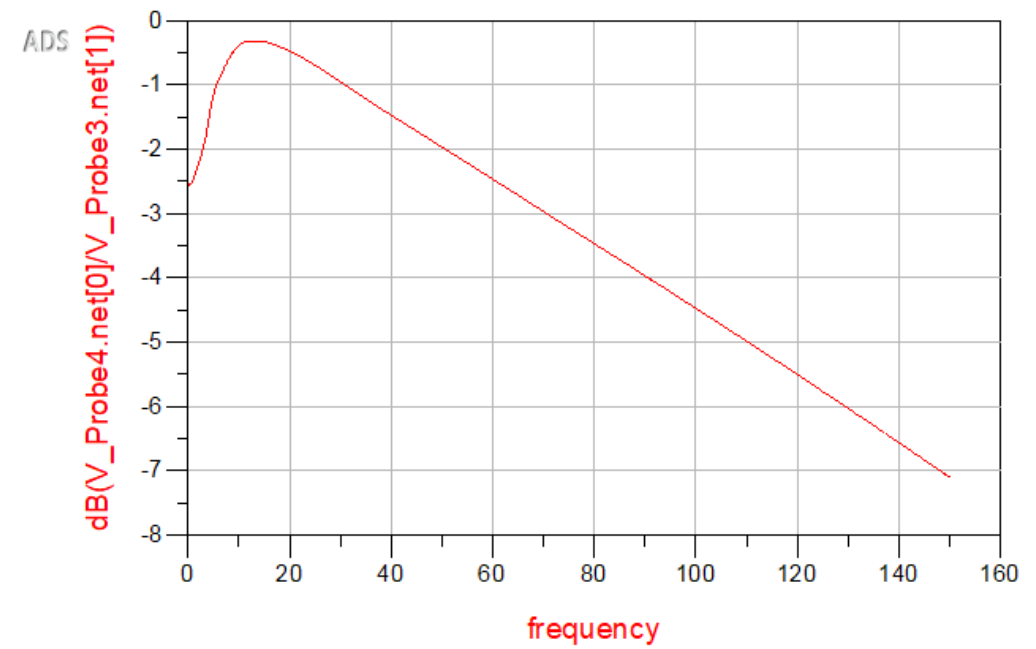


HARMONIC BALANCE

HarmonicBalance
HB1
Freq[1]=frequencyGHz
Order[1]=4



Small signal schematic approach
Blue = input signal
Pink = output signal
Red = V_Gain



SPICE schematic approach
Red = V_Gain