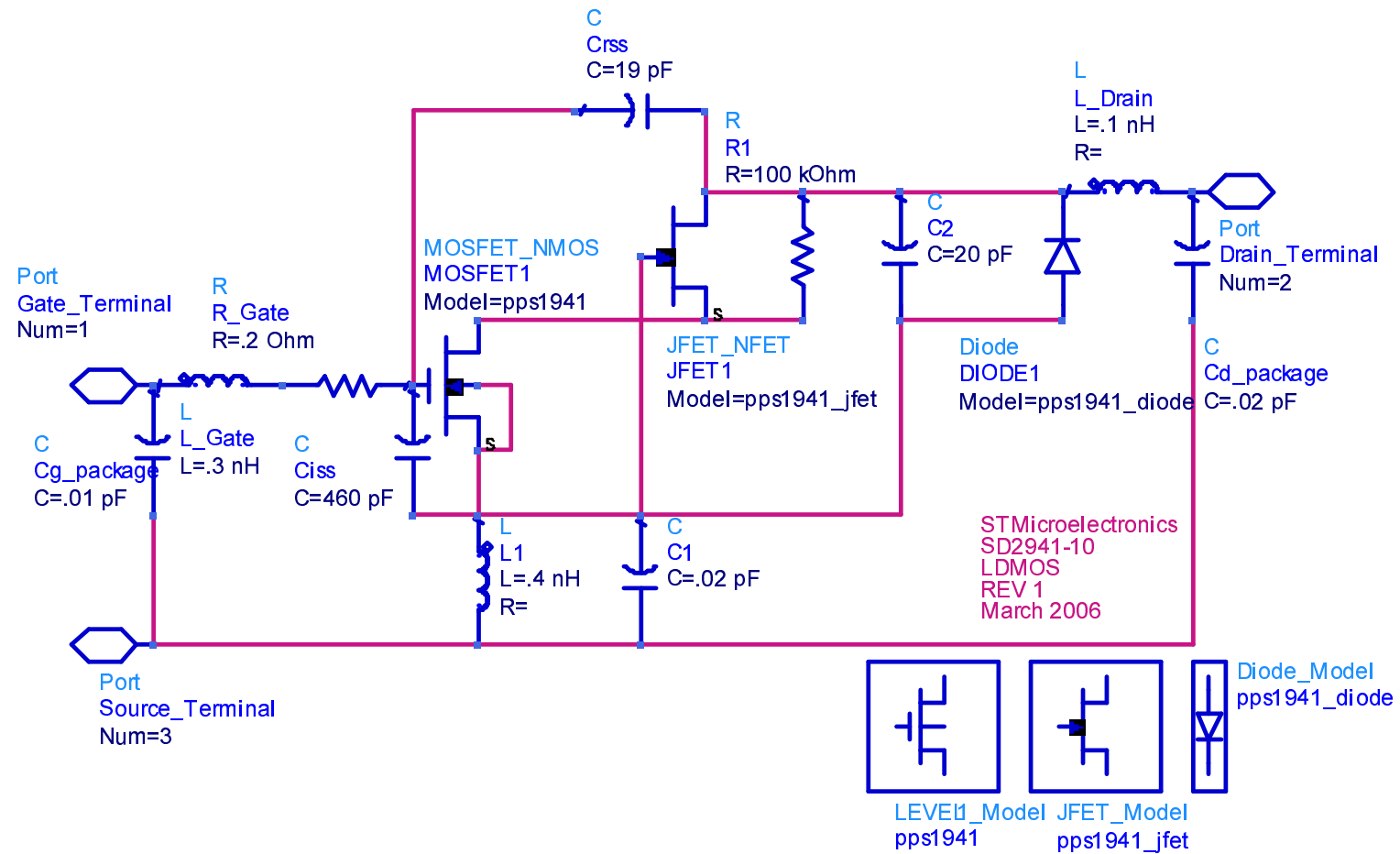




SD2941-10
Large Signal model
measured / modeled s-parameters

Quakertown, PA.
Qtn-jp-108-rev0
May 18 2006



SD2941-10 model

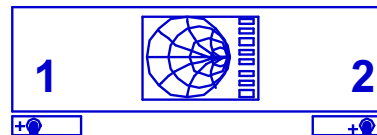


SET frequency Start / Stop
 Set Gate Voltage = VBias1
 SET Drain Voltage = VBias2

SP_NWA
 SP_NWA1
 Start=50 MHz
 Stop=250 MHz
 NumPoints=5
 VBias1=3.2
 VBias2=50
 Port1Z=50
 Port2Z=50

S_StabCircle
 S_StabCircle1
 S_StabCircle1=s_stab_circle(S,51)

L_StabCircle
 L_StabCircle1
 L_StabCircle1=l_stab_circle(S,51)



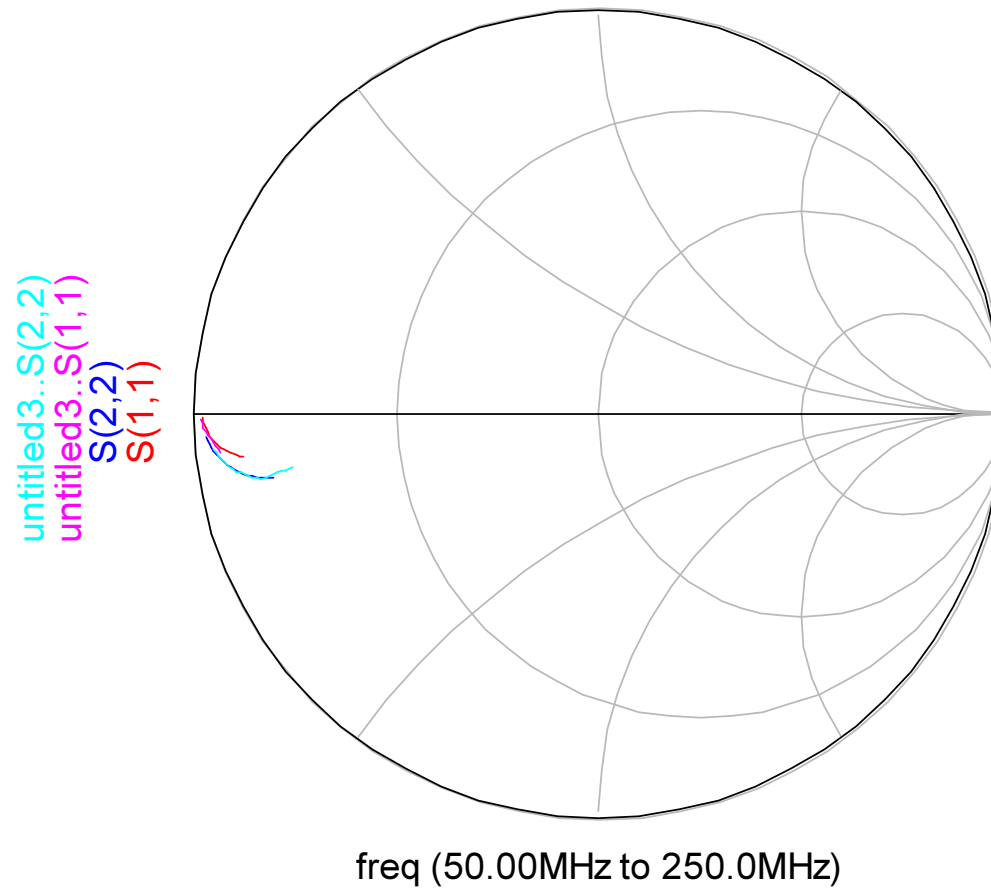
SD41_10_ADS2005A_revision_1
 X1

STMicroelectronics
 ADS2005A
 RF Small Signal template revision 0
 John Pritiskutch_ST_Quakertown
 March 30 2006

StabFact
 StabFact1
 StabFact1=stab_fact(S)

MaxGain
 MaxGain1
 MaxGain1=max_gain(S)

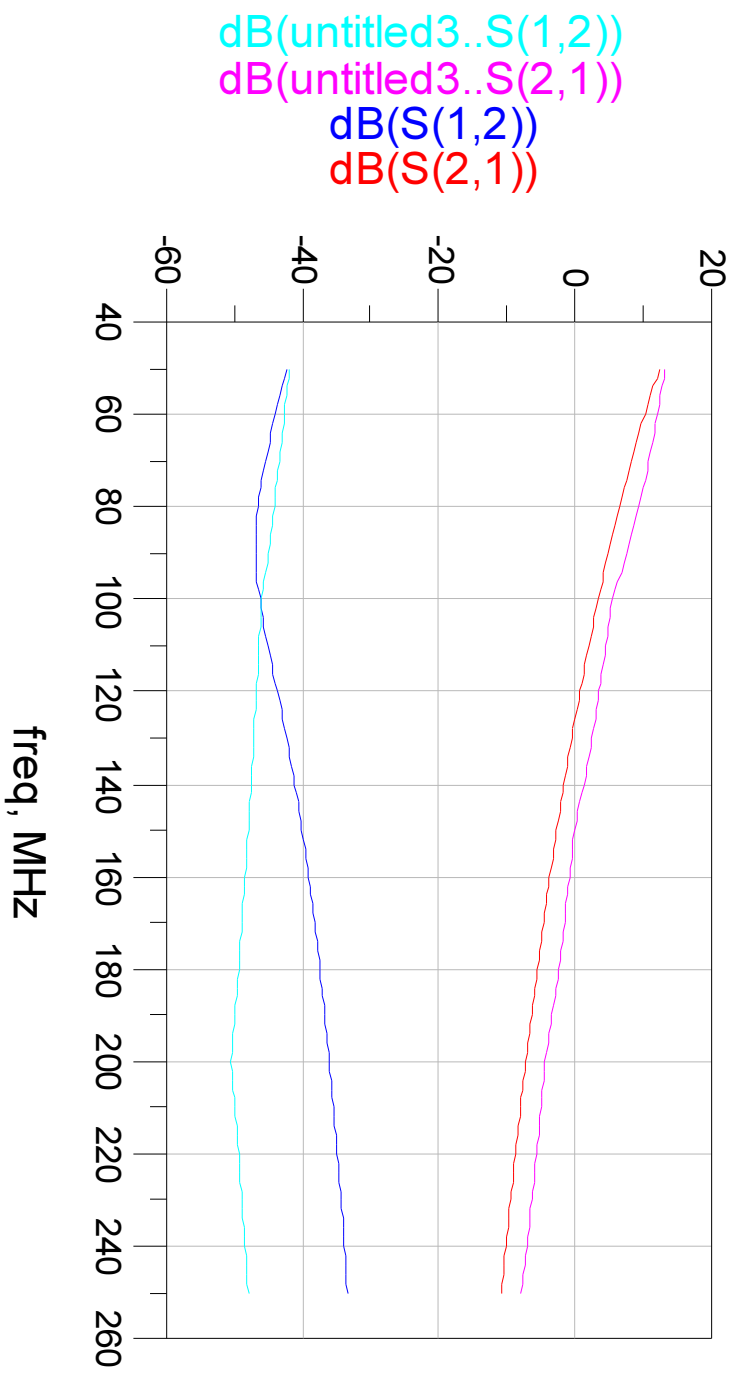




Untitled = MEASURED

Blue/red = MODELED





freq	S(1,1)	S(2,1)	S(1,2)	S(2,2)
50.00 MHz	0.885 / -172.982	4.187 / 56.519	0.008 / -8.420	0.821 / -168.692
100.0 MHz	0.940 / -175.014	1.488 / 37.184	0.005 / 50.493	0.910 / -171.258
150.0 MHz	0.964 / -176.889	0.737 / 28.097	0.010 / 82.921	0.948 / -173.805
200.0 MHz	0.975 / -178.336	0.436 / 24.030	0.016 / 88.097	0.966 / -175.661
250.0 MHz	0.980 / -179.489	0.289 / 22.946	0.021 / 89.047	0.974 / -177.044

modeled



! Frequency	S11	S21	S12	S22				
# Mhz	S	MA	R	50				
50	0.94	-174	4.569	66.7	0.008	-9	0.766	-170
100	0.955	-176	1.862	45.8	0.005	-15	0.852	-169
150	0.969	-177	0.99	32.5	0.004	2	0.91	-171
200	0.977	-178	0.606	23.6	0.003	36	0.94	-173
250	0.983	-179	0.402	17.7	0.004	57	0.957	-175

measured

