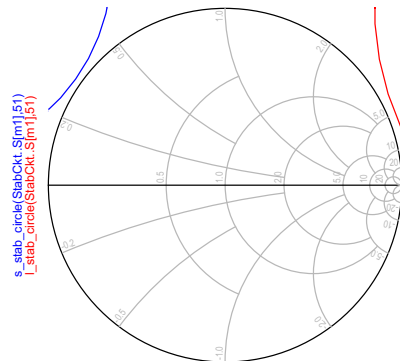
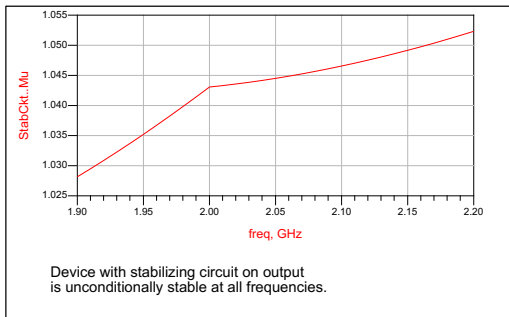
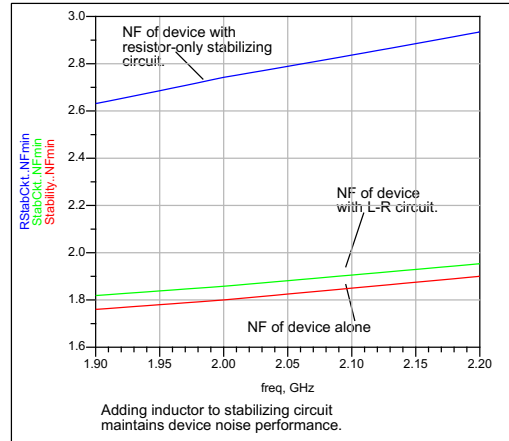


# AFTER adding output stabilizing circuit:



indep(l\_stab\_circle(StabCkt..S[m1],51)) (0.000 to 51.000)  
indep(s\_stab\_circle(StabCkt..S[m1],51)) (0.000 to 51.000)  
Load and source stability circles now fall outside Smith Chart. All passive source and load terminations will produce stable circuit.



Results at m1 marker frequency:

Stability..Mu[m1]	StabCkt..Mu[m1]
0.902	1.043

MU > 1 - circuit now stable at the price of...

Stability..NFmin[m1]	StabCkt..NFmin[m1]	...in[m1] - NFmin[m1]
1.800	1.858	0.058

0.058 dB higher NF

dB(Stability..S(2,1)[m1])	dB(StabCkt..S(2,1)[m1])	...B(StabCkt..S(2,1)[m1])
8.787	8.574	0.213

and 0.213 dB drop in gain.

Sopt at 2GHz, used in Matching.dsn

mag(StabCkt..Sopt[m1])	phase(StabCkt..Sopt[m1])
0.444	98.626