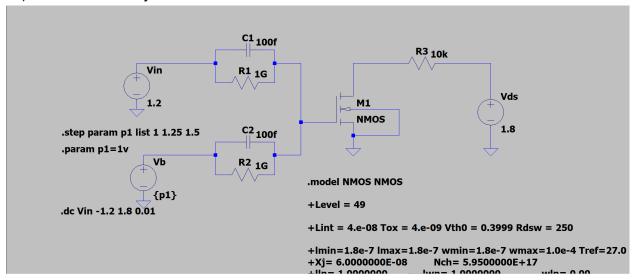
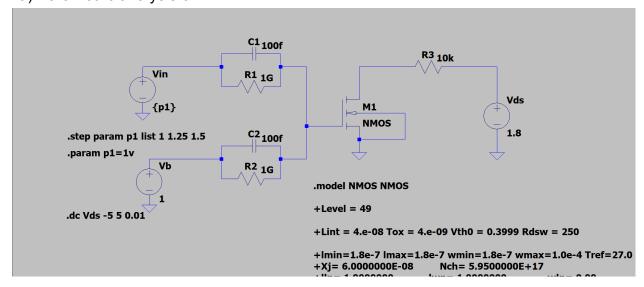
Schematics:

FG-NMOS

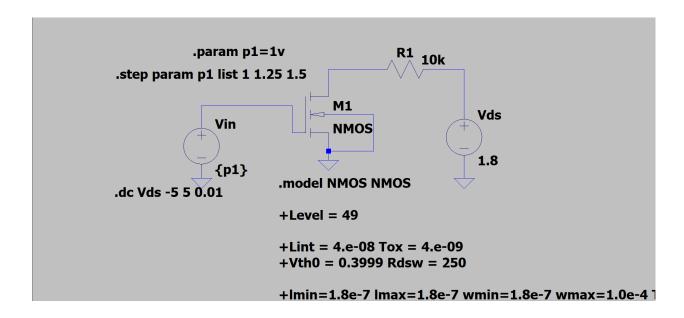
1a) Parametric analysis on Vb



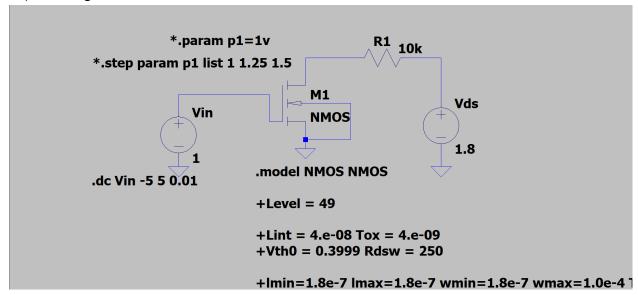
2a) Parametric analysis on Vin



Conventional NMOS
3a) Parametric analysis on Vin



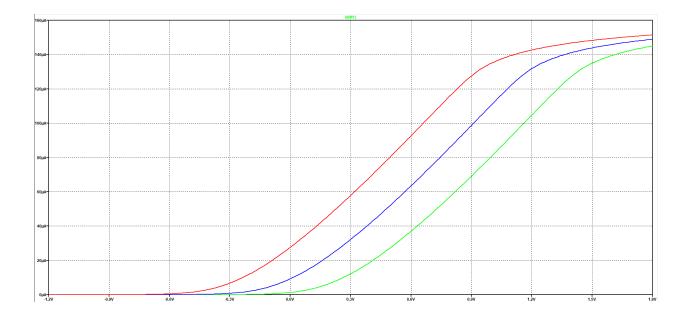
4a) ld vs Vgs



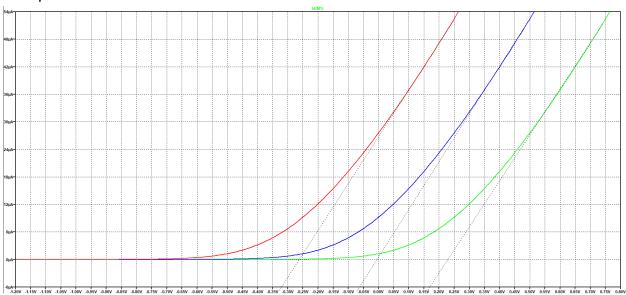
Outputs:

FG-NMOS

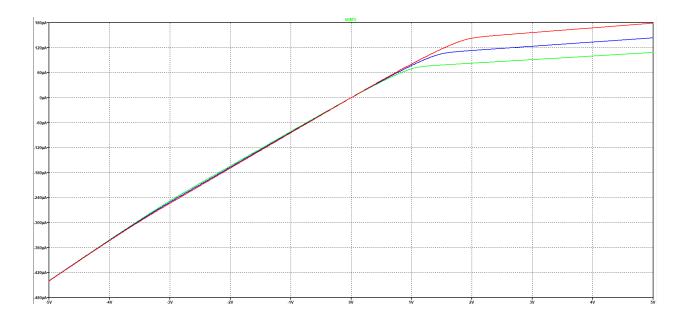
1b)



Extrapolation

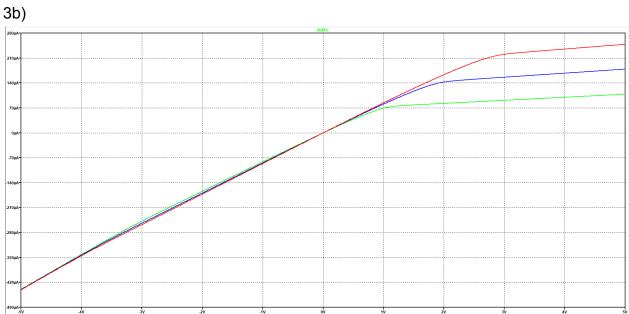


2b)

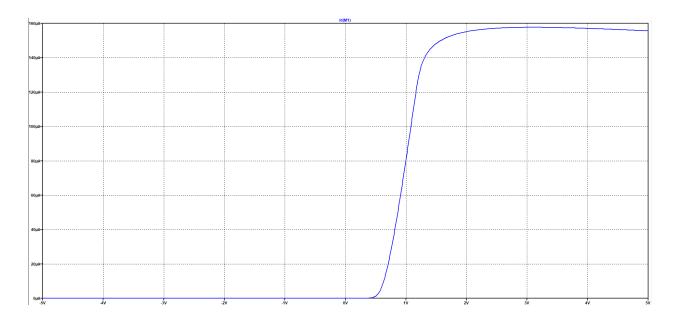


Conventional NMOS





4b)



Results:

FG-NMOS

Vin(V)	Vb(V)	Vth(V)
1.2	1	0.165
1.2	1.25	-0.065
1.2	1.5	-0.325

For conventional NMOS with Vin=1V, Vth=0.57V.