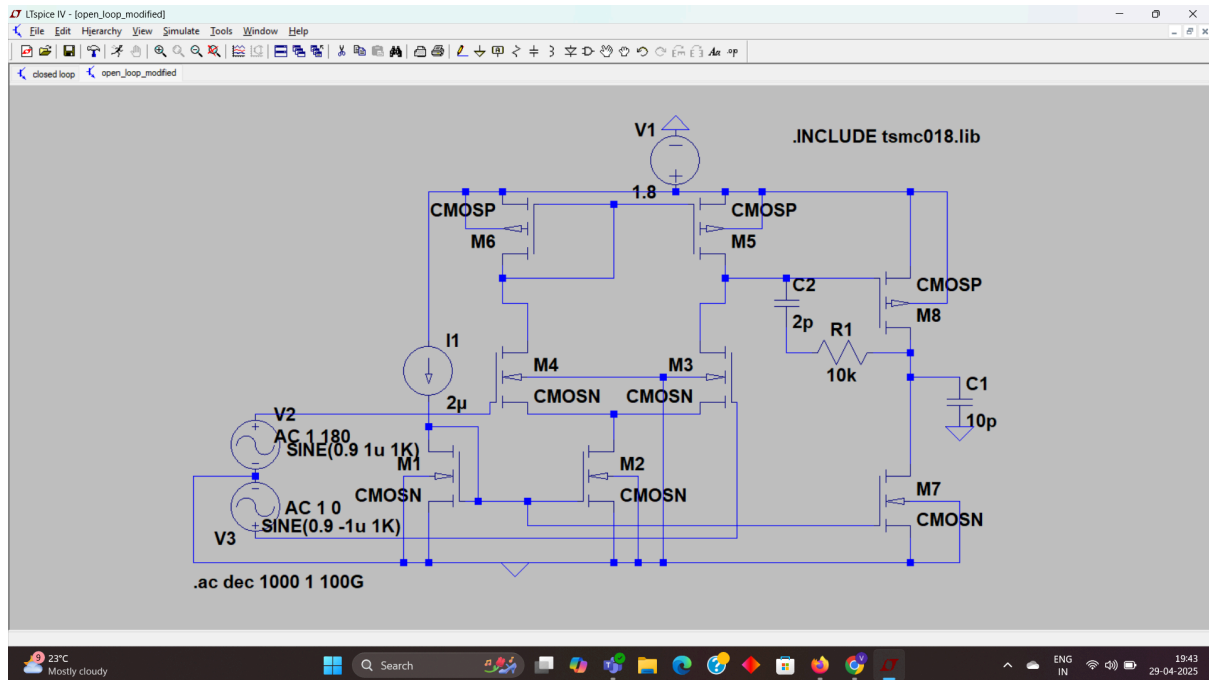


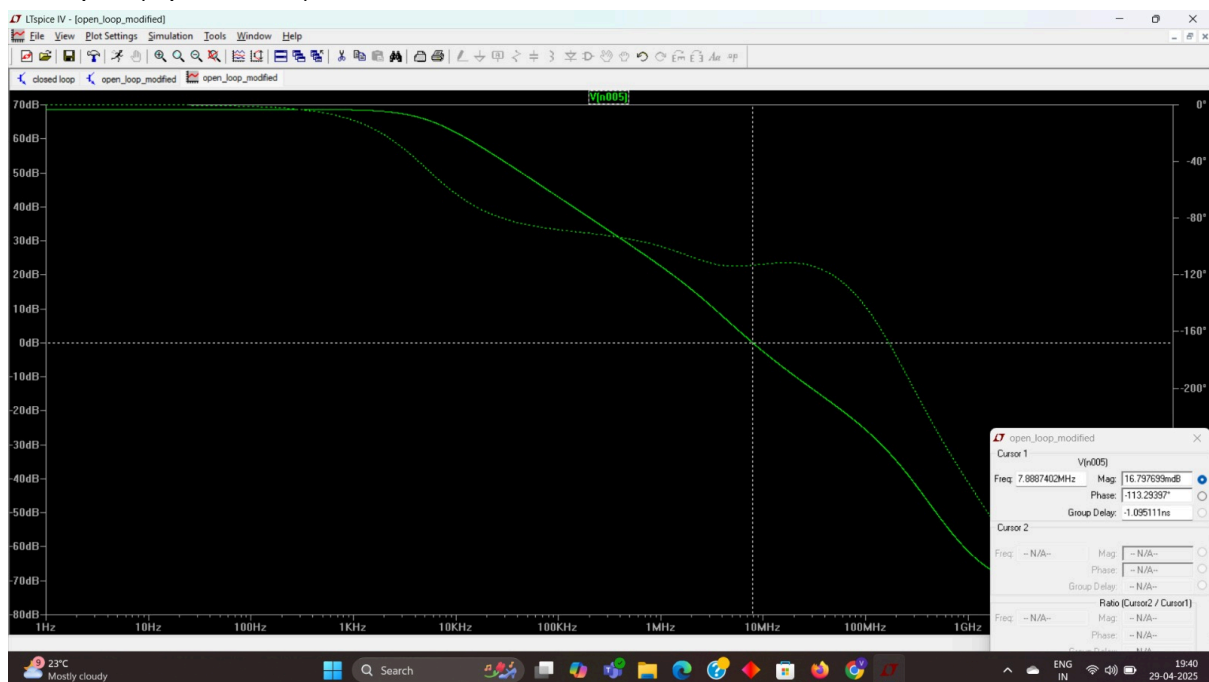
A.v.s.l.rajeshwari
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ECE

Open Loop Analysis



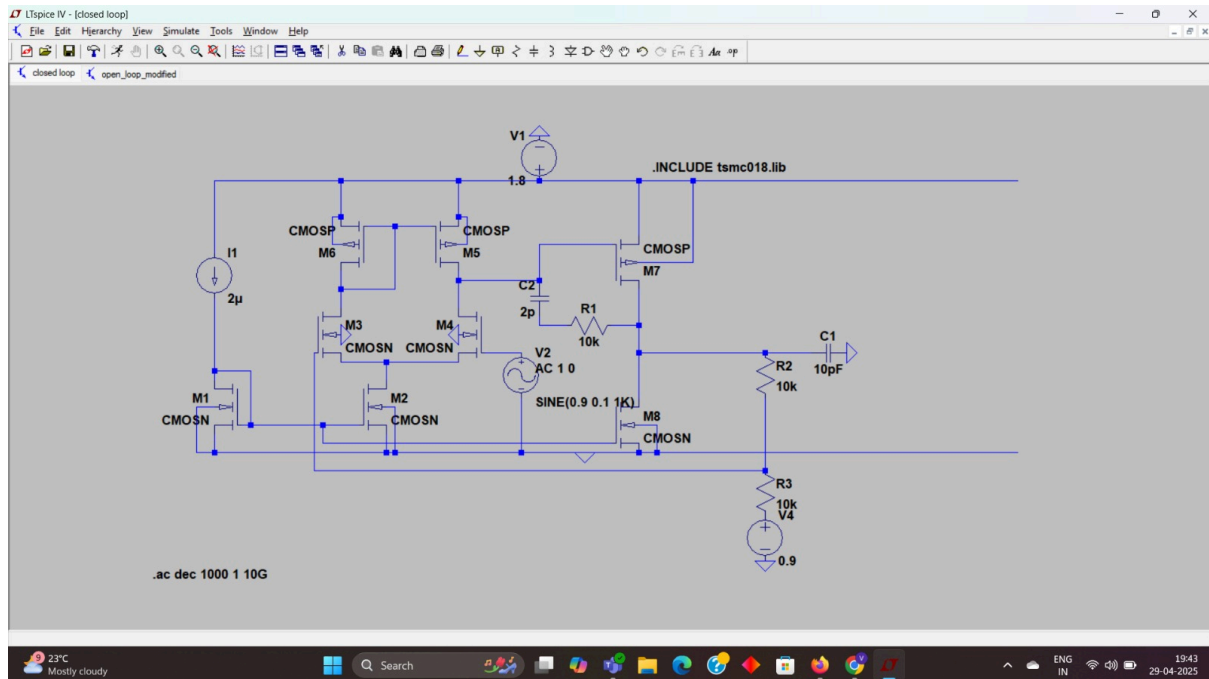
$C_c = 2\text{pF}$, $R_z = 10\text{k}$, $C_L = 10\text{pF}$

Bode plot (Open circuit)

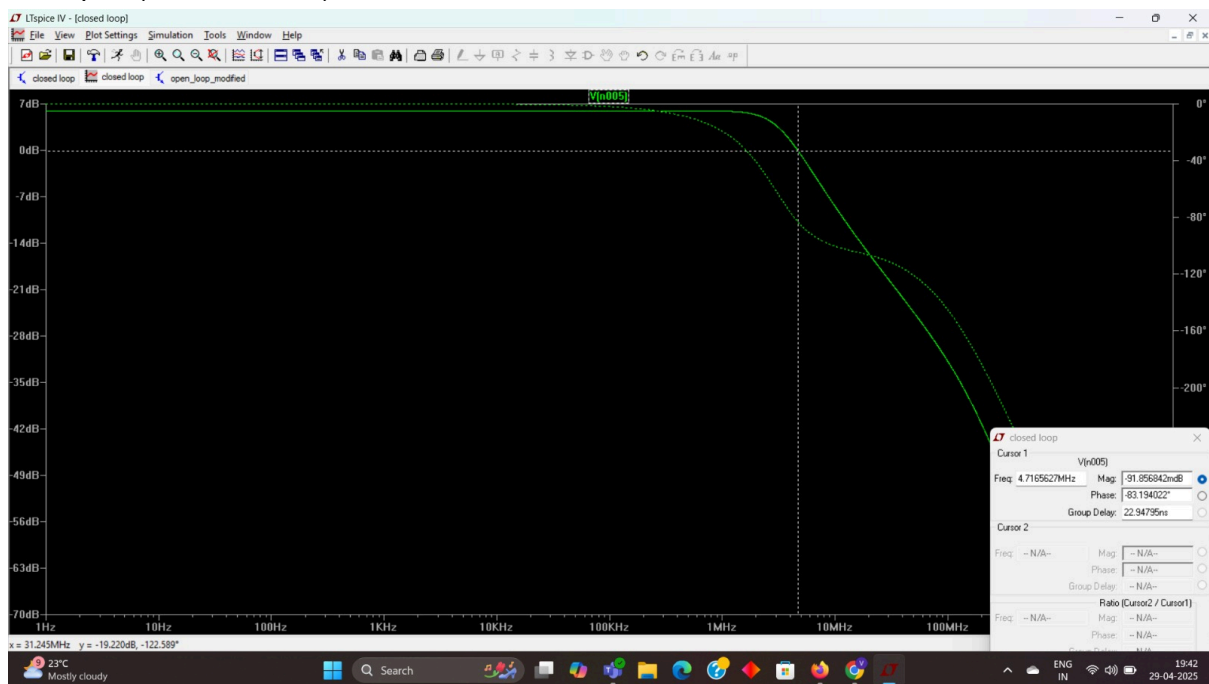


Low frequency gain : 68.55db (2680)
Phase Margin : 66.70 degrees

Closed Loop Analysis

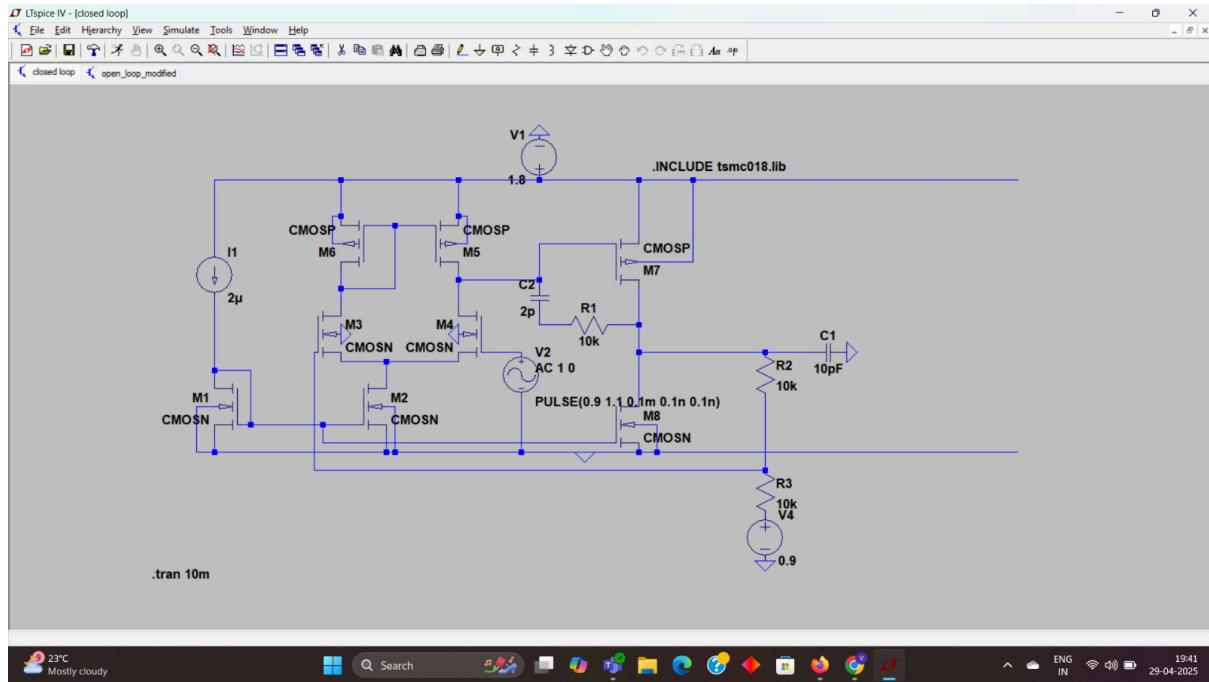


Bode plot (Closed circuit)

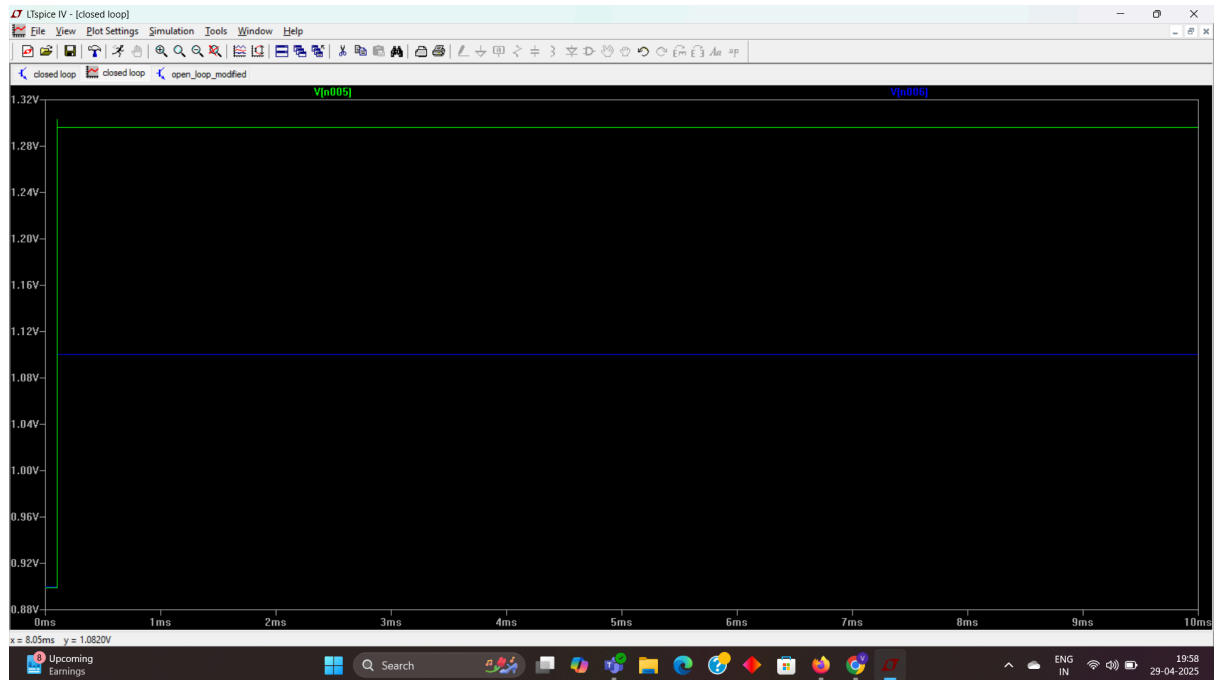
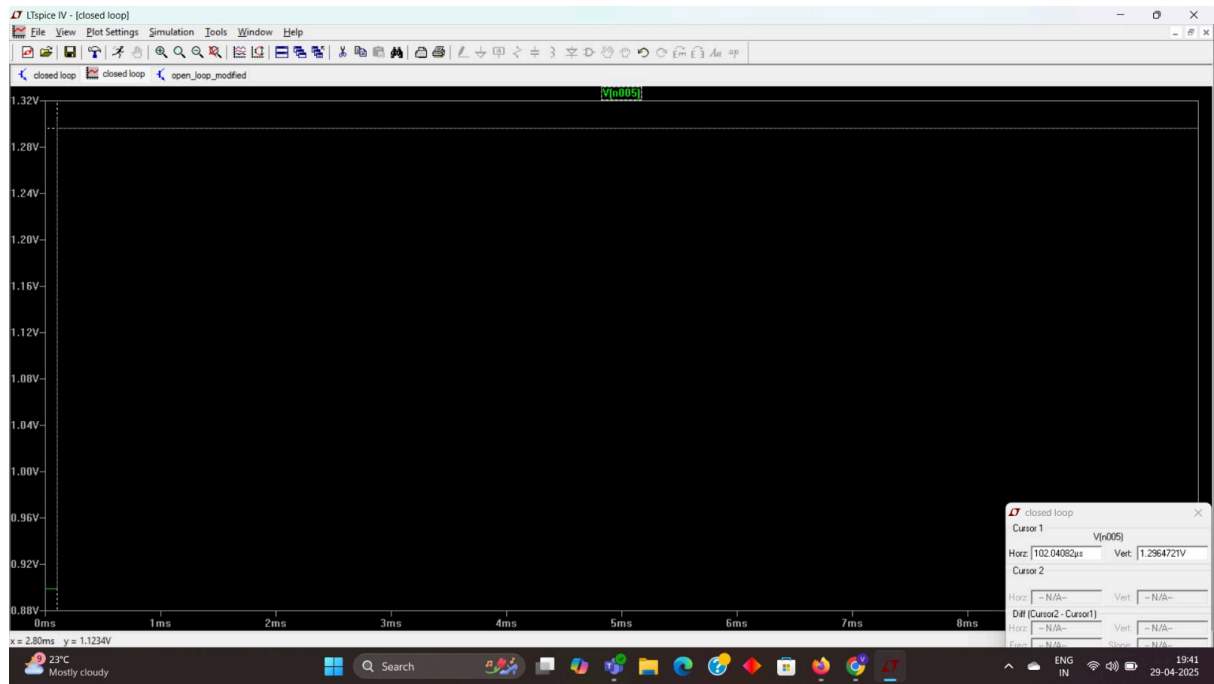


Low Frequency Gain : 5.981db (2)
Phase Margin : 96.8 degrees

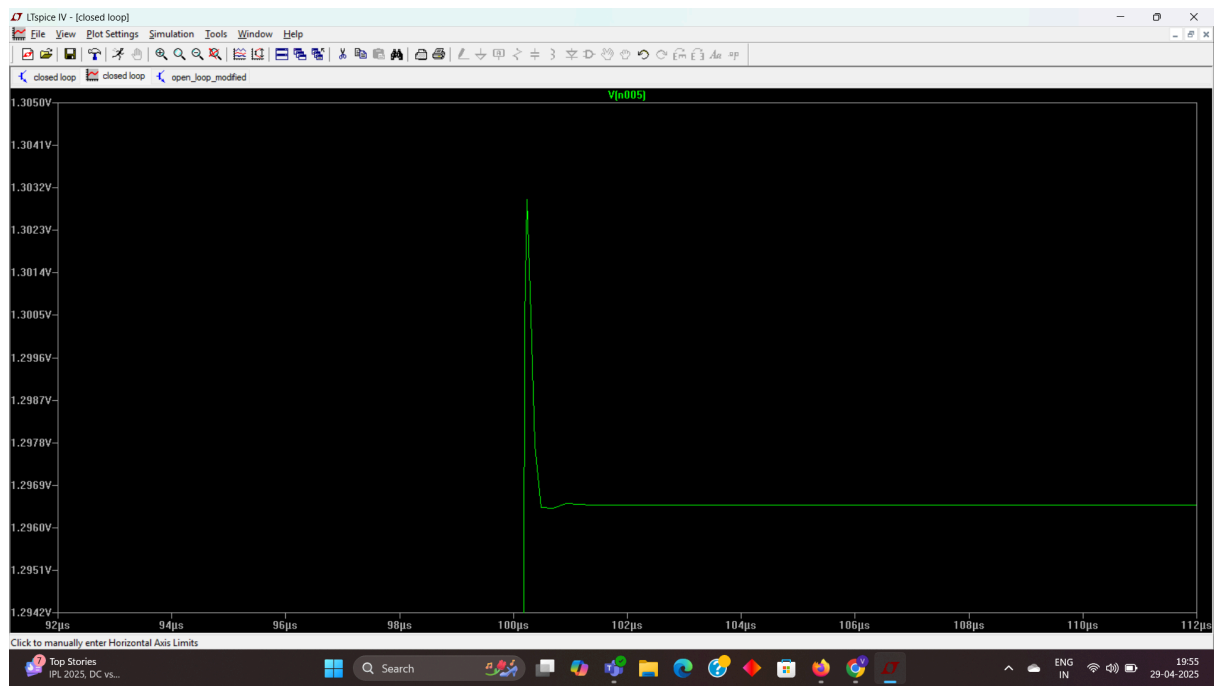
Step Response



Step Response of Closed Loop Circuit



Blue plot is input (offset 0.9, steady state 1.1, Amplitude 0.21)
 Green plot is output (offset 0.9, steady state 1.296, Amplitude 0.406)
 Gain = $0.406/0.21 = 1.93 \sim 2$



This overshoot here is very low so it's a good response