VCO (avsdvco_1v8)

PRE-LAYOUT SIMULATION AND OUTPUT WAVEFORMS

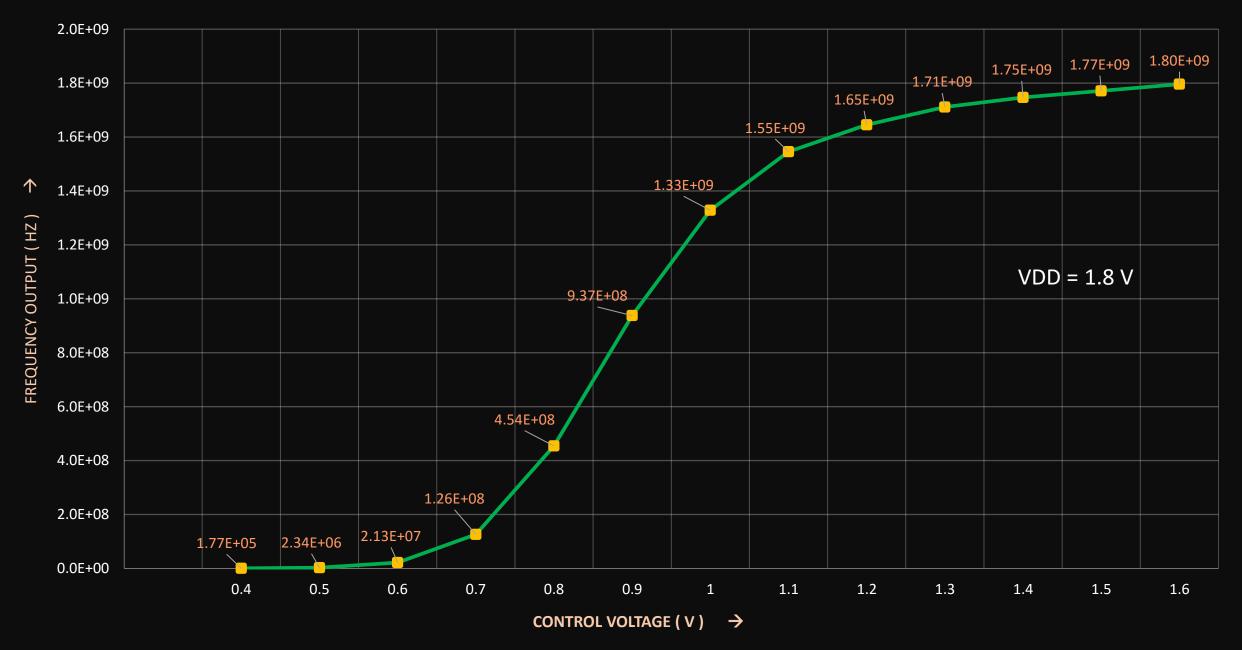
NALINKUMAR S

AVSDVCO_1V8 PLOTS

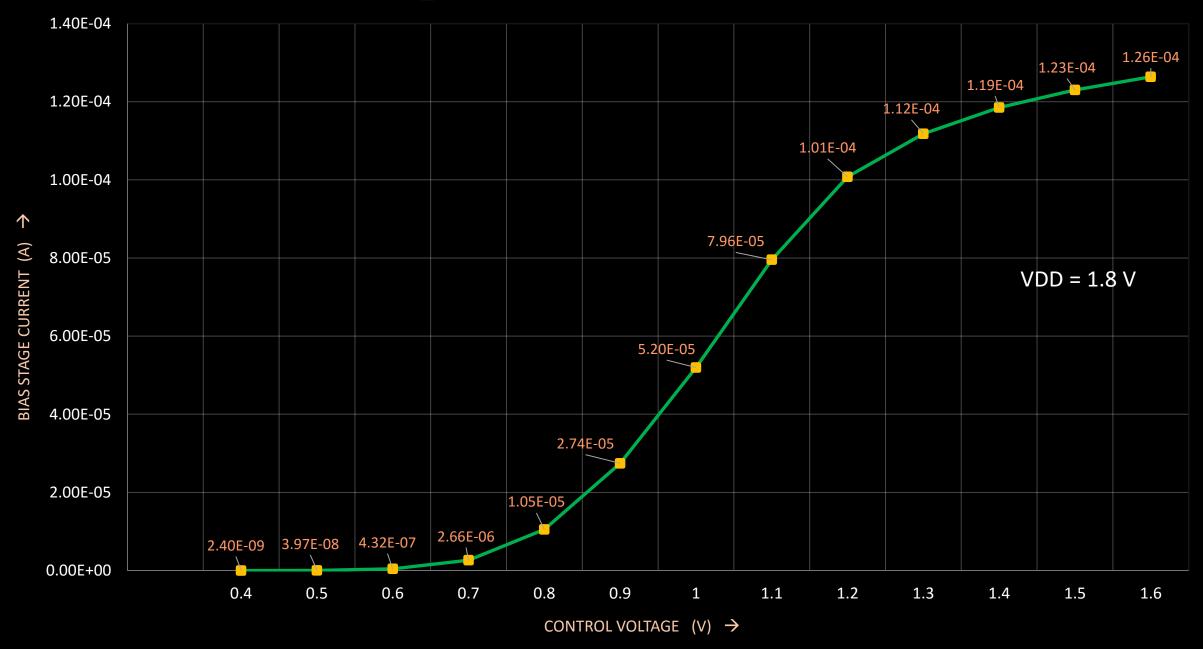
- 1. VCO OUTPUT FREQUENCY (F_OUT) Vs CONTROL VOLTAGE (VCTRL) @ VDD = 1.8 V & TEMP = 27 °C
- 2. BIAS STAGE CURRENT Vs CONTROL VOLTAGE (VCTRL) @ VDD = 1.8 V & TEMP = 27 °C
- 3. VCO OUTPUT FREQUENCY (F_OUT) Vs BIAS VOTAGE (VDD) @ VCTRL = 0.9 V & TEMP = 27 °C
- 4. TRANSIENT ANALYSIS (AMPLITUDE Vs TIME) @ VDD = 1.8 V , VCTRL = 0.9 V & TEMP = 27 °C

Note: 1, 2 & 3 plots are performed for various transient analysis and values are plotted.

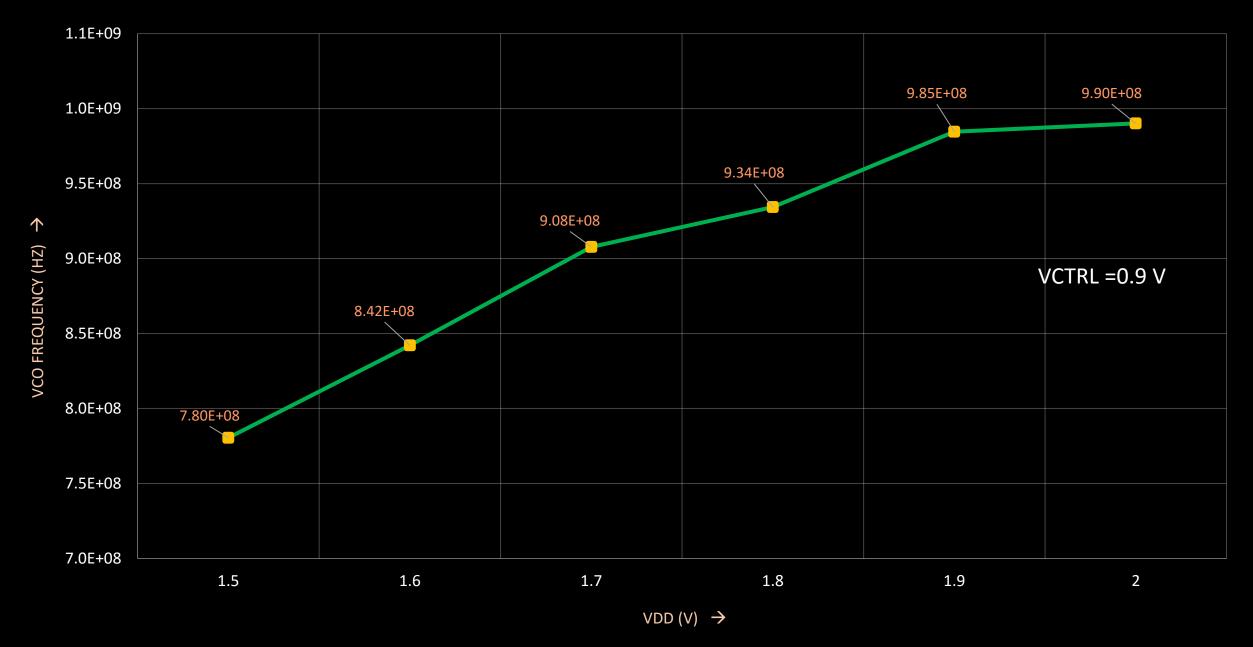
1) AVSDVCO_1V8 OUTPUT FREQUENCY VS CONTROL VOLTAGE



2) AVSDVCO_1V8 BIAS CURRENT VS CONTROL VOLTAGE



3) AVSDVCO_1V8 OUTPUT FREQUENCY VS BIAS VOLTAGE



4) AVSDVCO_1V8 TRANSIENT ANALYSIS @ VCTRL = 0.9 V

