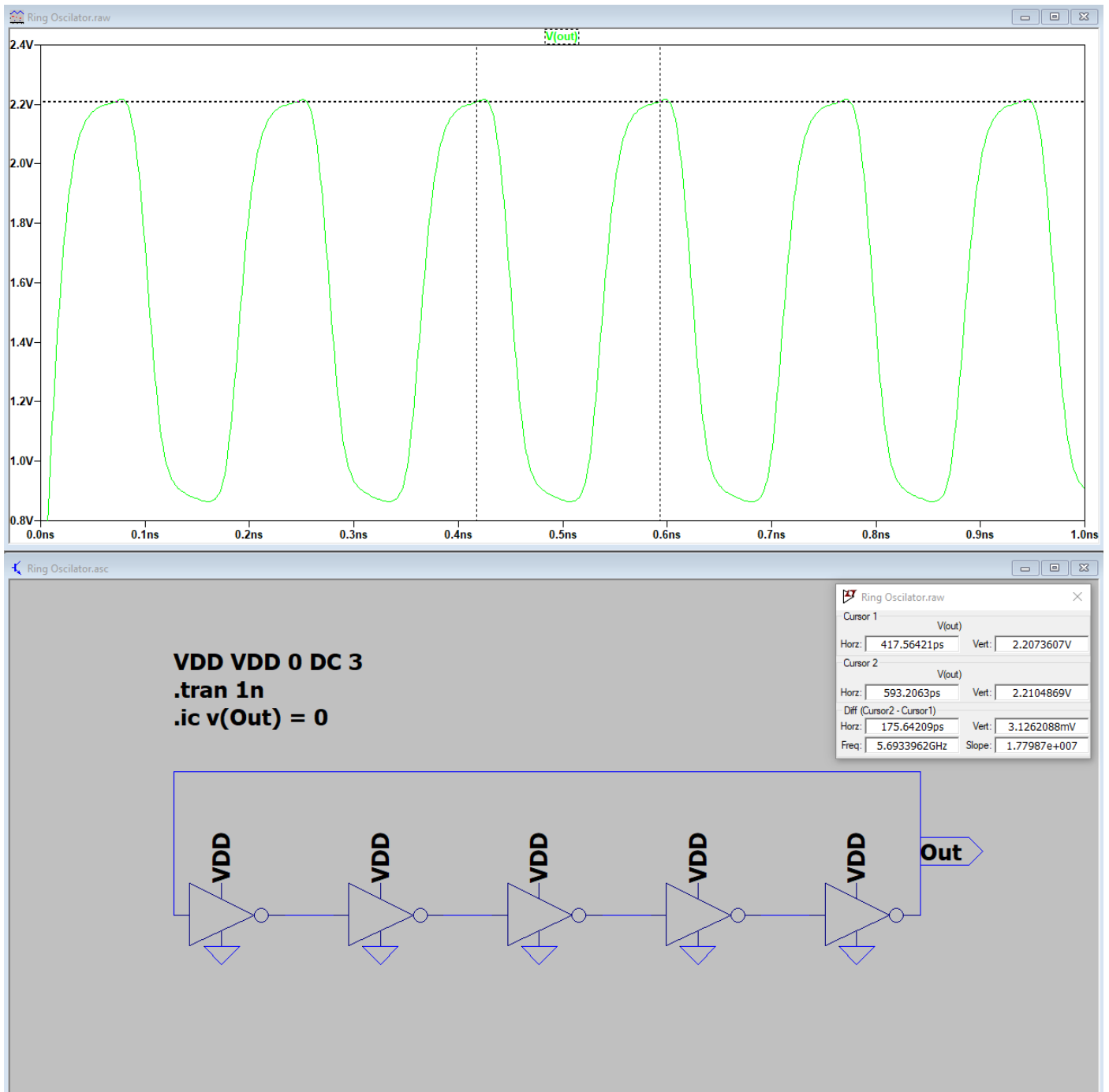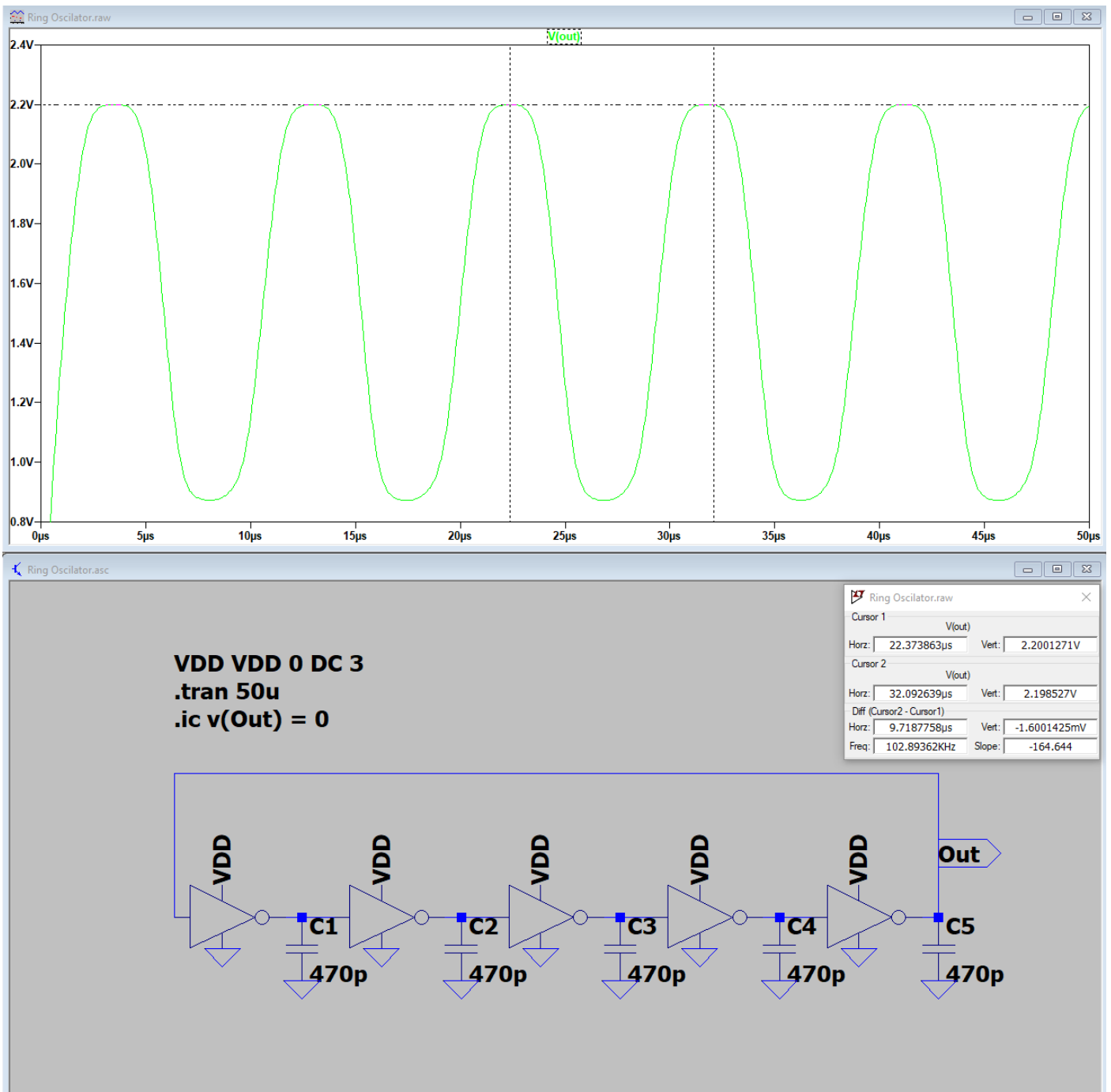# RING OSCILATOR

- V_{dd} = 3V C_p = 0

Frequency: 5.66 GHz
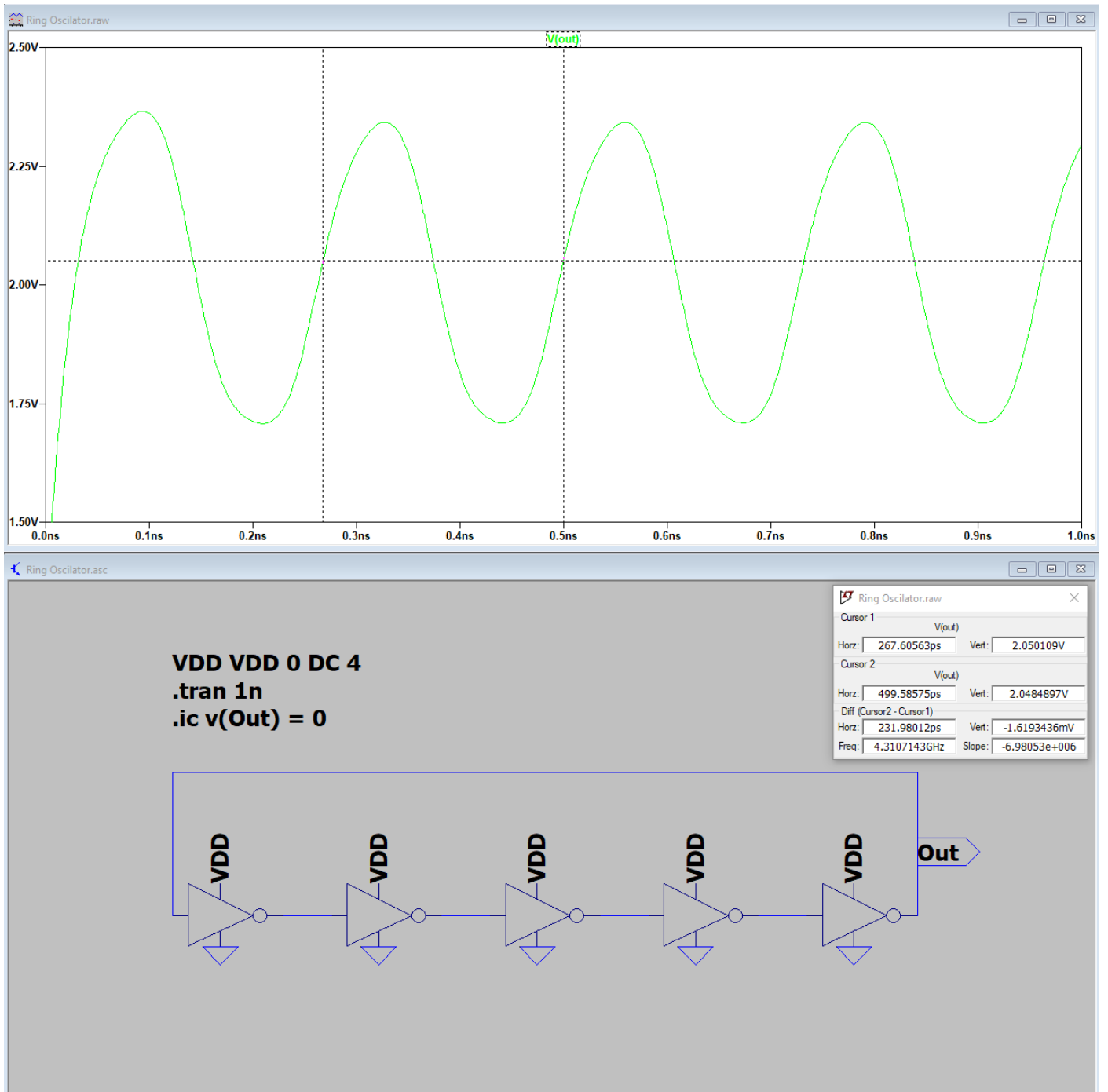
Period: 175 ps

- $V_{dd} = 3V$ $C_p = 470pF$

Frequency: 102 KHz

Period: 9.71 us
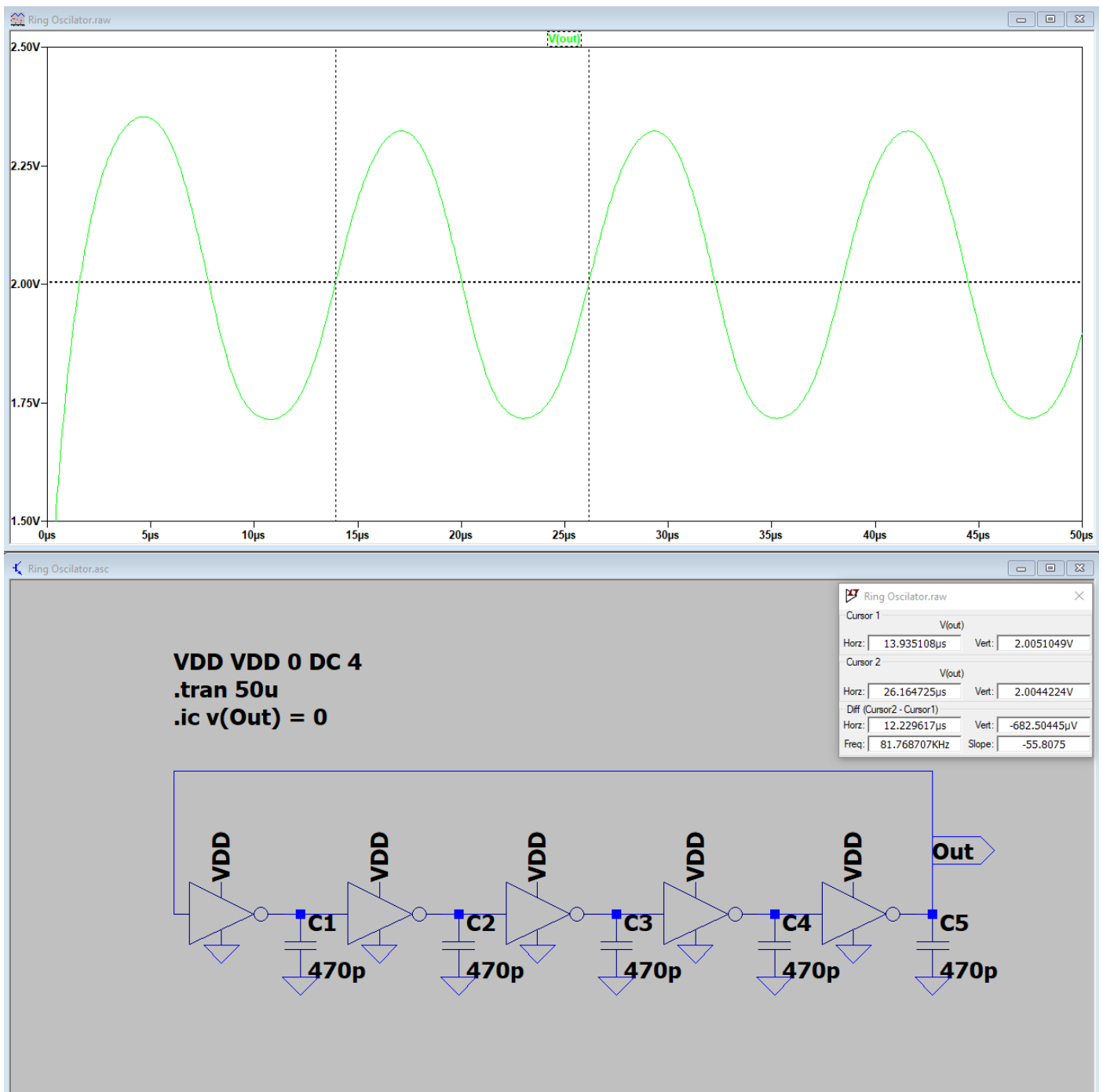
- $V_{dd} = 4V$ $C_p = 0$
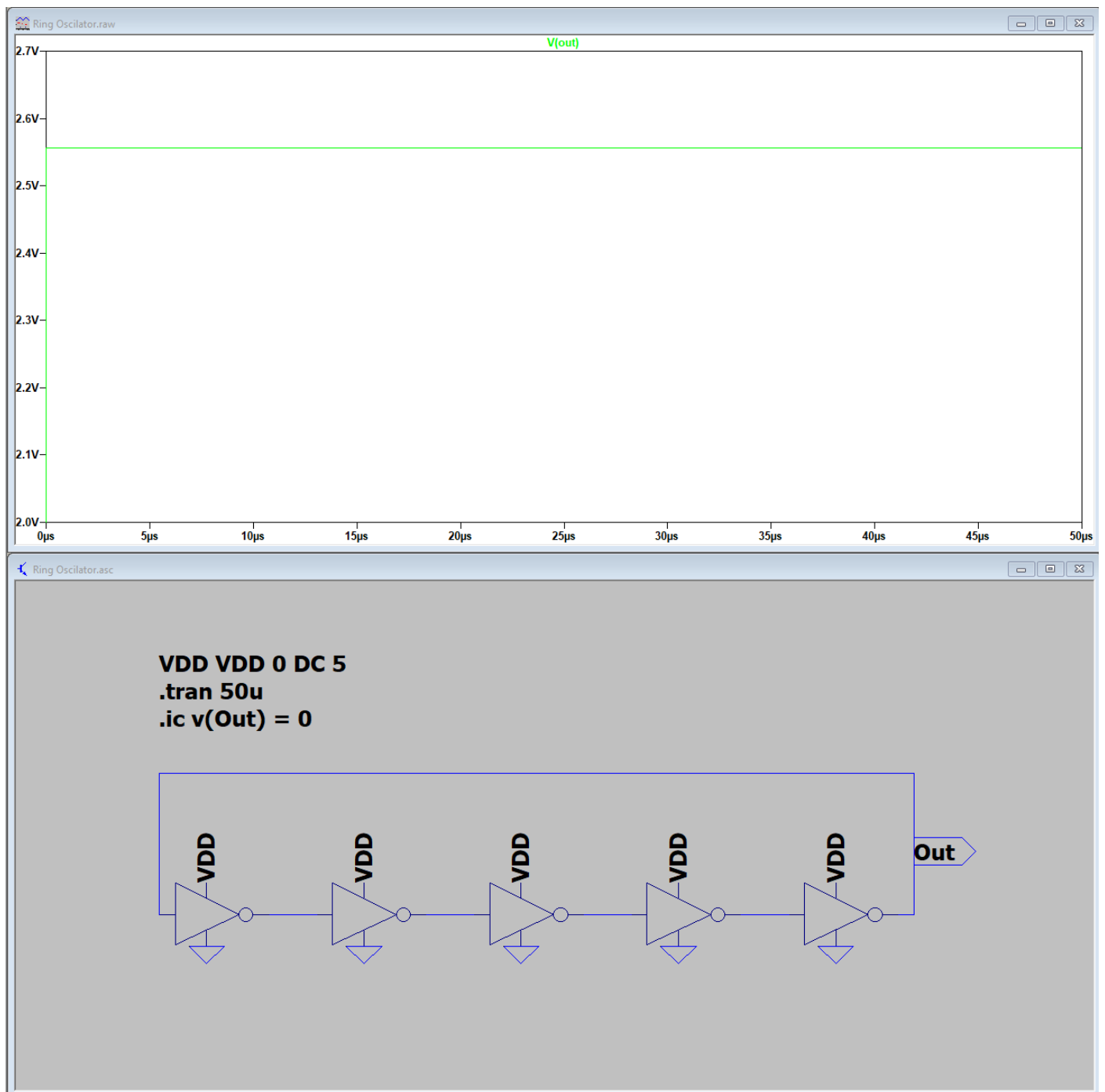

Frequency: 4.31 GHz

Period: 231 ps

- V_{dd} = 4V C_p = 470pF

VDD VDD 0 DC 4
.tran 50u
.ic v(Out) = 0

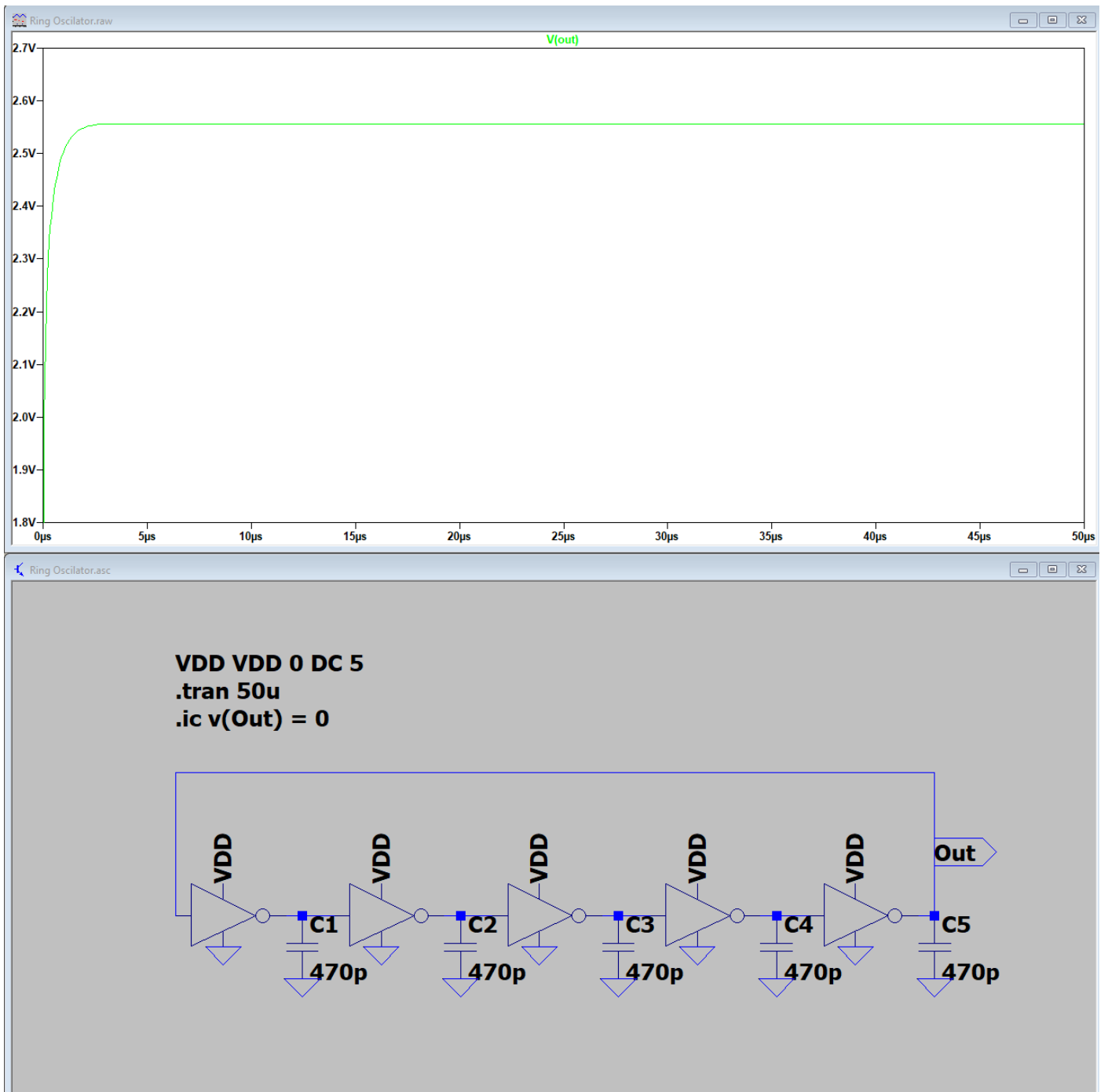Frequency: 81.7 KHz

Period: 12.2 us

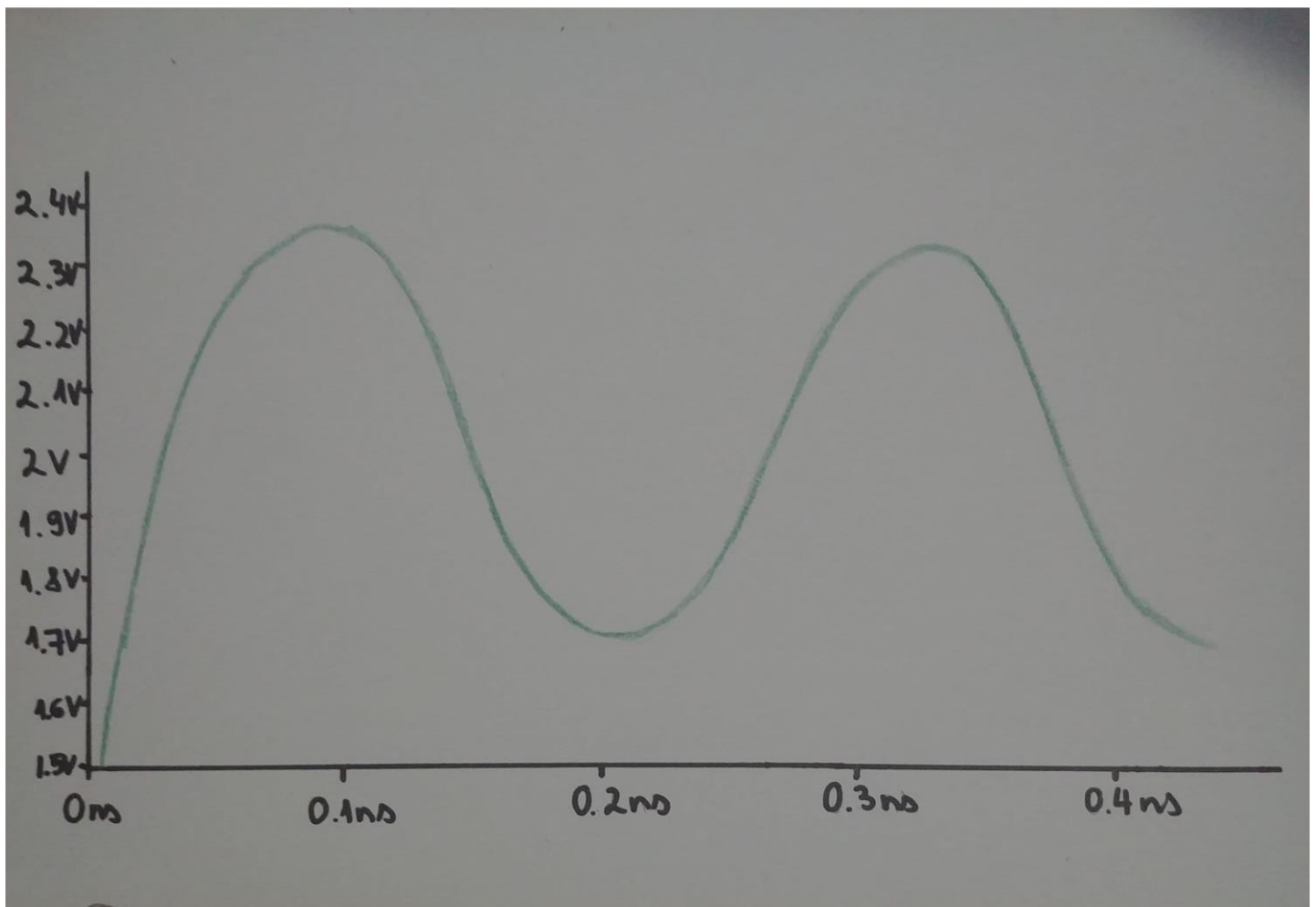- $V_{dd} = 5V$ $C_p = 0$

Frequency: N/A

Period: N/A

- $V_{dd} = 5V$ $C_p = 470pF$

Frequency: N/A

Period: N/A

- $V_{dd} = 3V \quad C_p = 0$

RC OSCILATOR

Got the RC Oscilator working with R = 20kΩ