

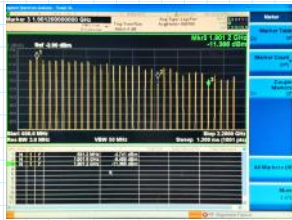
测试-NCO

2024年11月8日 星期五 18:42

2024/11/08

Real-time NCO 测试

RF-DAC 跳频结果:



通道: VOUT_10, 也就是3个通道

Data Path: DAC 0 to F/2

Nyquist Zone: 1

Decoder Mode: SWR optimized

采样率: 4.8 Gsa, 启用内部 PLL, 外参 200M

信号形式: 单音

信号时钟: 200MHz (20x 内部)

80% Nyquist带宽 = 1.92GHz

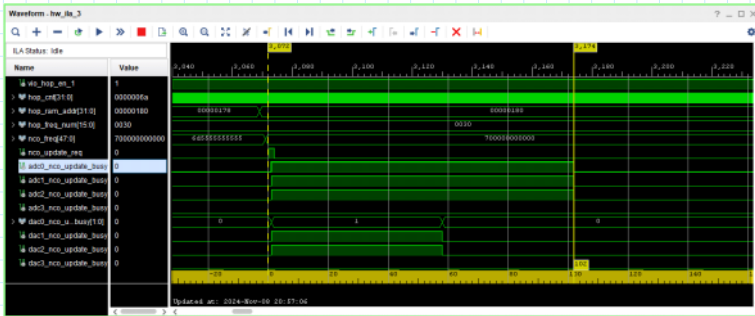
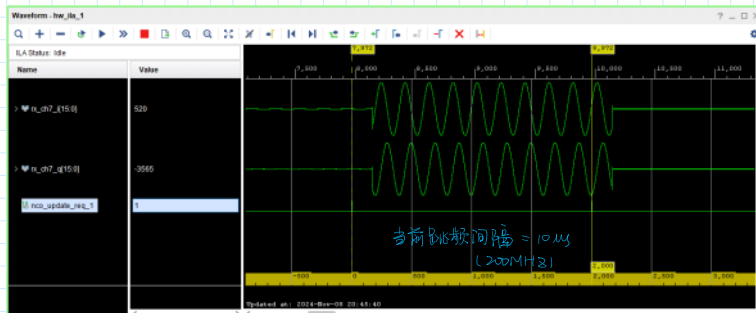
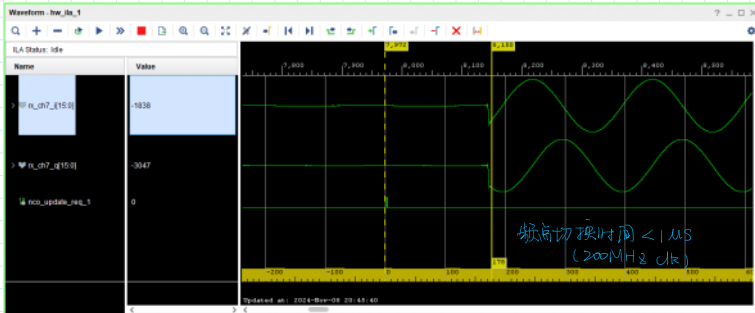
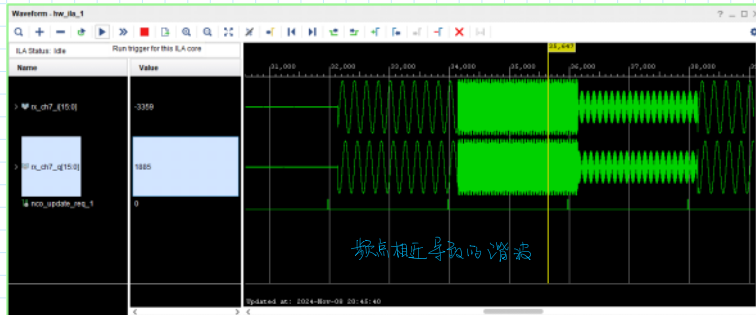
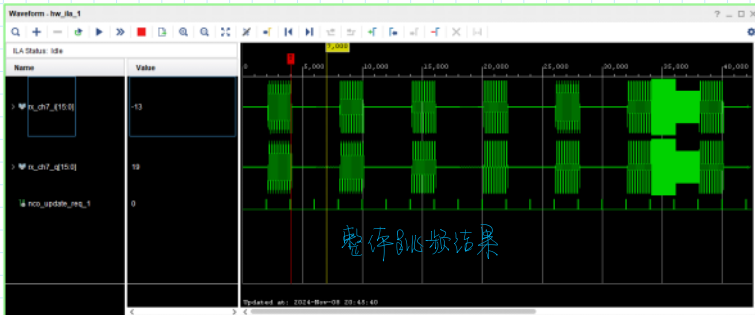
0.24G ~ 2.16G → Zone 1

2.4G ~ 4.56G → Zone 2

跳频范围: 500M ~ 2100M (50M间隔)

参考通道: VIN3_01 (7th)

Zone 2, Mode 2, 可观察到信号偏小



最长频点锁定时间 = 1us
(100MHz)

RF-ADC 跳频结果:

通道: VIN1_01, 也就是3个通道

Nyquist Zone: 1

Calb Mode: 2

采样率: 4.8 Gsa/s, 启用内部 PLL, 外参 200M

信号形式: 单音

信号时钟: 200MHz (20x 内部)

跳频范围: 500M ~ 2100M (50M间隔)

参考Tx通道: VOUT_30 (7th)

