# **Calculations:**

 $f_{wave} = f_{cpu}/[(prescalar of timer)*(steps in timer)*(steps in wave form)]$ 

Sawtooth high:  $f_{sawtooth} = 16 \text{ million}/(64*1*255) = 980.39 \text{ Hz}$ 

Sawtooth low:  $f_{sawtooth} = 16 \text{ million}/(64*255*255) = 3.844 \text{ Hz}$ 

Triangle high:  $f_{triangle} = 16 \text{ million}/(64*1*510) = 490.16 \text{ Hz}$ 

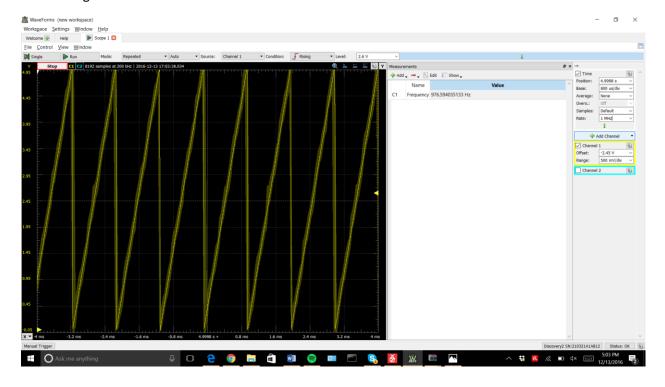
Triangle low:  $f_{triangle} = 16 \text{ million/}(64*255*510) = 1.922 \text{ Hz}$ 

Sine high:  $f_{sine} = 16 \text{ million}/(64*1*255) = 980.39 \text{ Hz}$ 

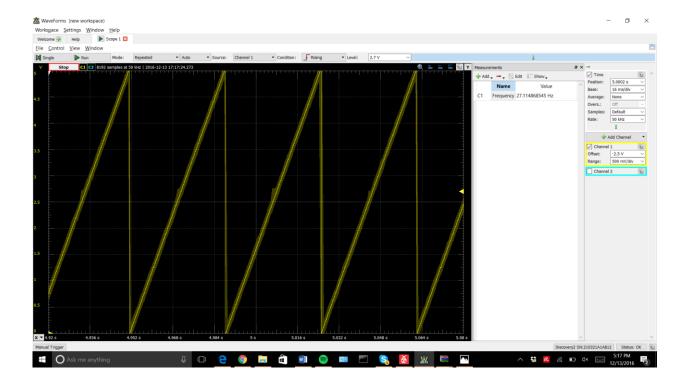
Sine low:  $f_{sine} = 16 \text{ million}/(64*255*255) = 3.844 \text{ Hz}$ 

## **Screenshots:**

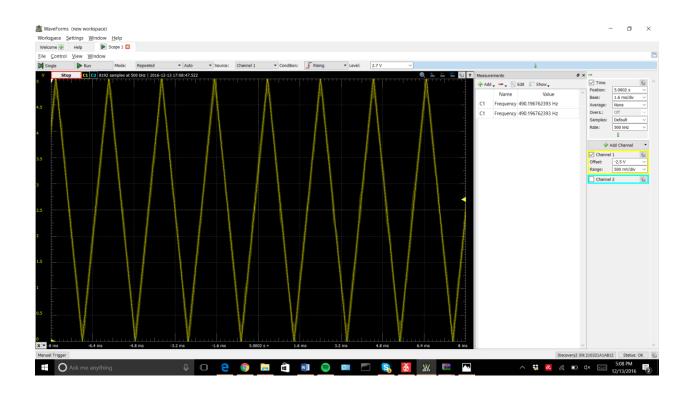
### Sawtooth high:



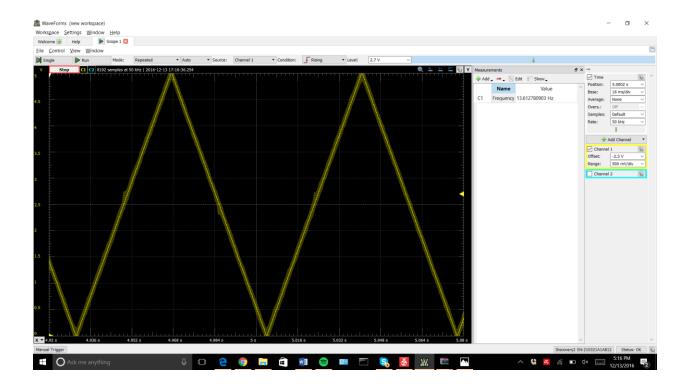
#### Sawtooth low:



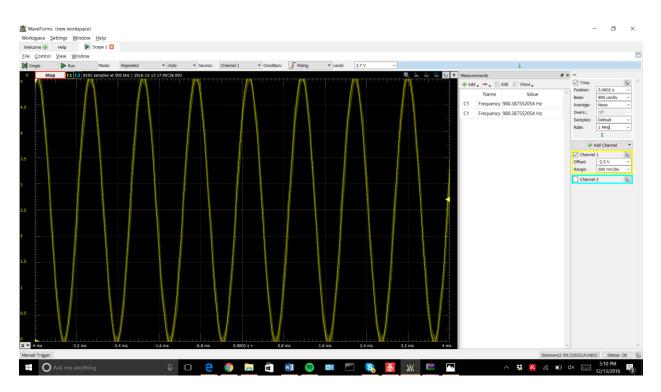
## Triangle High:



# Triangle Low:



# Sine High:



### Sine Low:

