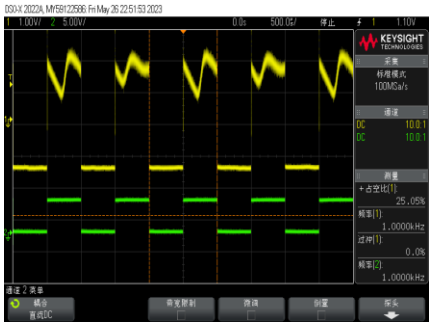
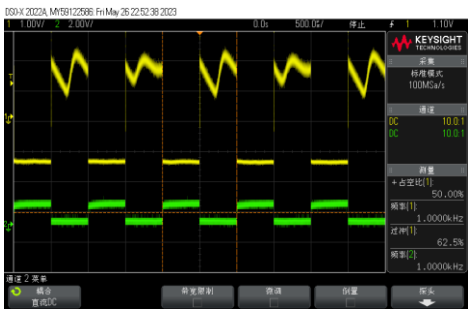
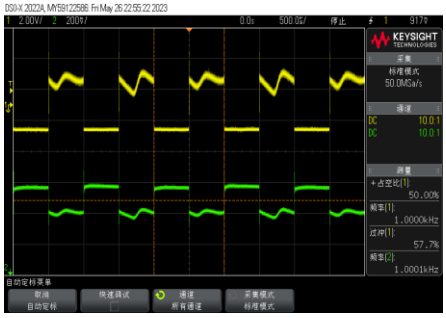
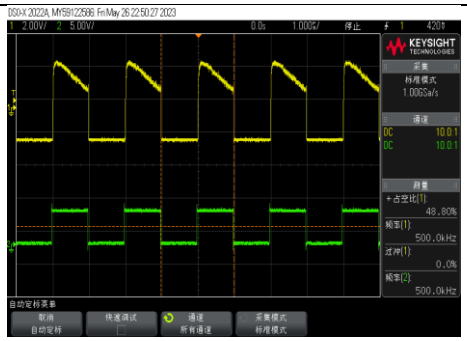
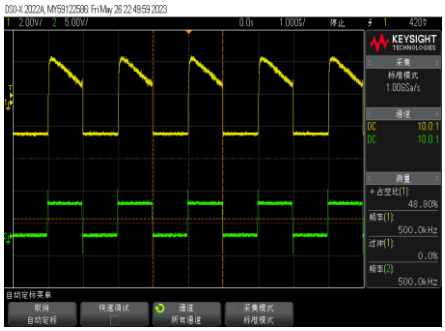
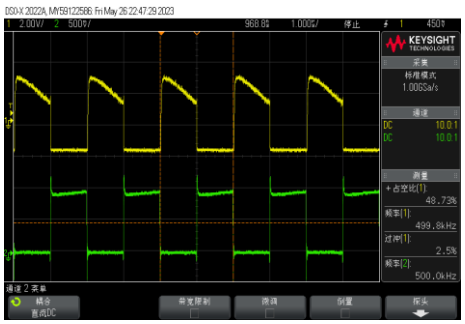
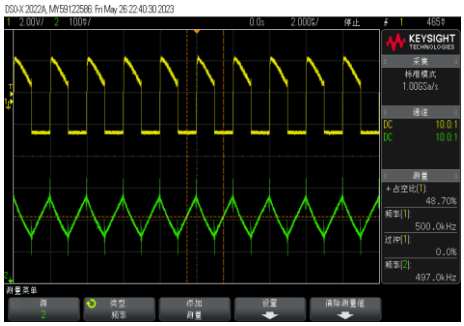
Thank you very much for your reply, I have a problem with the expression, I have made a form for this purpose, I removed R9 and C11 before using them so that I could implement external control of the duty cycle, which is the only modification I made.

What puzzles me at the moment is that the waveform in the low and medium frequency bands is too bad, especially the 1KHz waveform. Is it because the circuit itself does not output a full square waveform, but only a reduction of the frequency; or what is the reason.

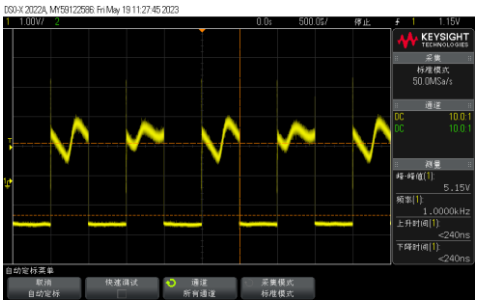
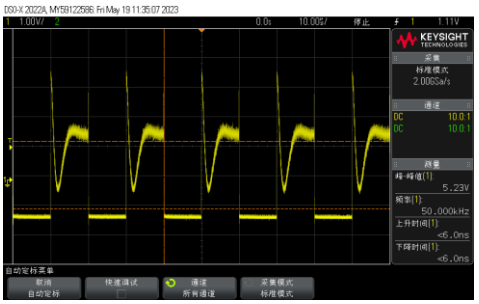
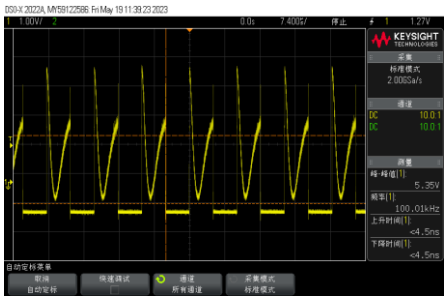
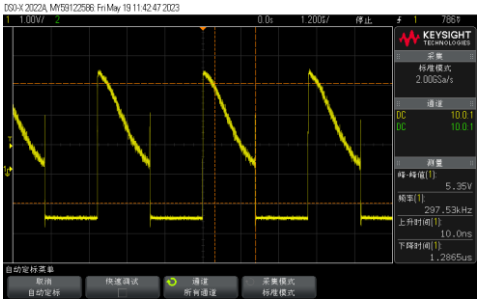
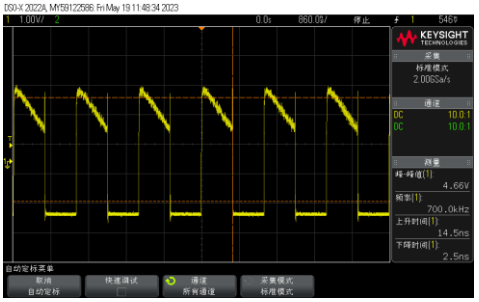
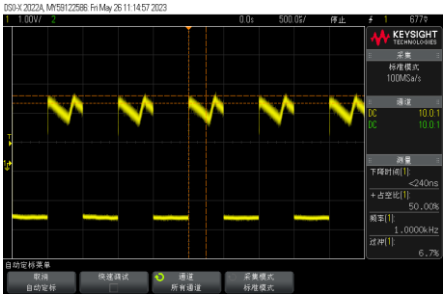
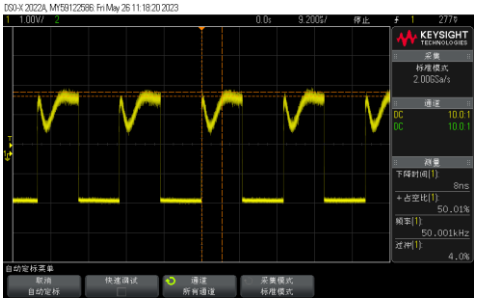
I sincerely hope you can reply!

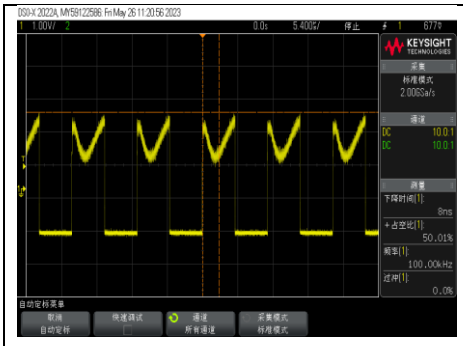
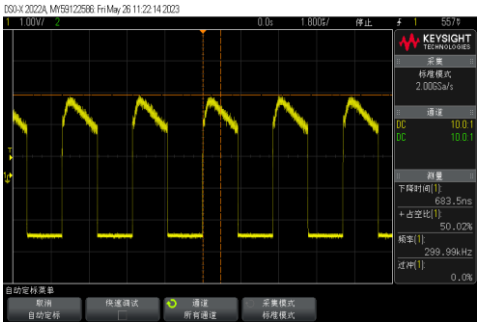
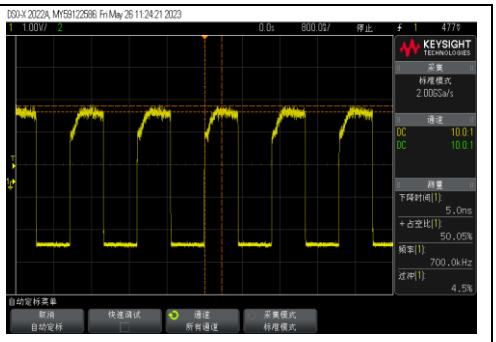
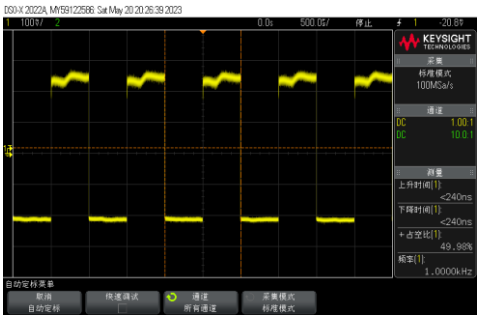
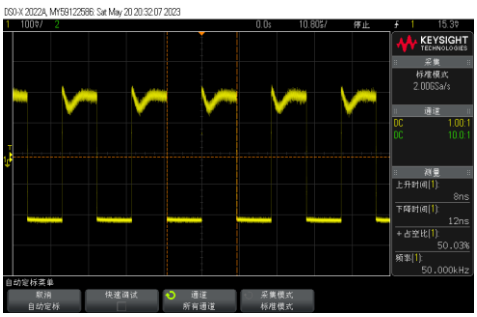
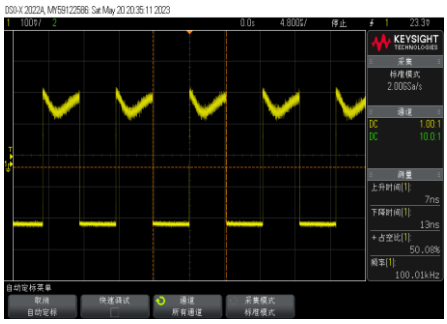
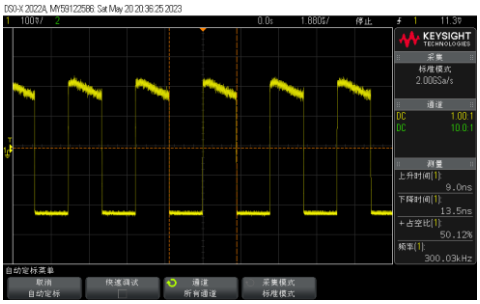
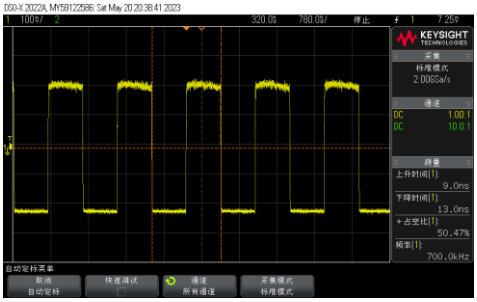
Vbus=2,5V LD：HL63603TG Yellow：Output light Green ： Detection point waveform Input frequency: 1KHz Duty cycle:50%	 IN+	 Vg
	 KA	 TP5

Vbus=2,5V LD：HL63603TG Yellow：Output light Green ： Detection point waveform Input frequency: 500KHz Duty cycle:50%	 IN+	 Vg

	 KA	 TP5

Yellow: Output light

Red: HL63603TG	1KHz	50KHz
		
100KHz	300KHz	700KHz
		
Green: PLT5 520B	1KHz	50KHz
		
100KHz	300KHz	700KHz

		
Blue: PLT5 450B	1KHz	50KHz
		
100KHz	300KHz	700KHz