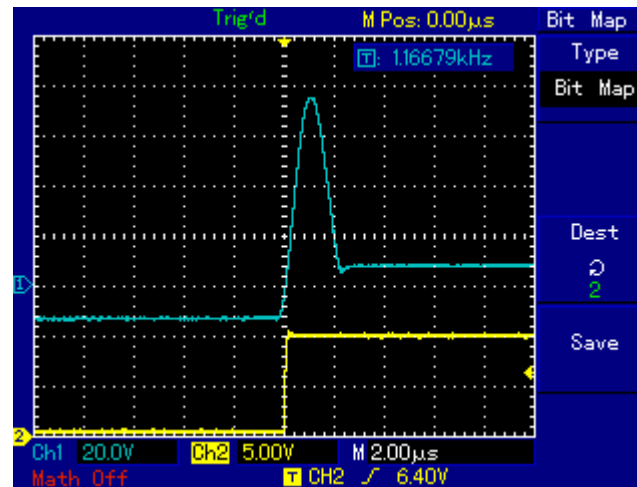
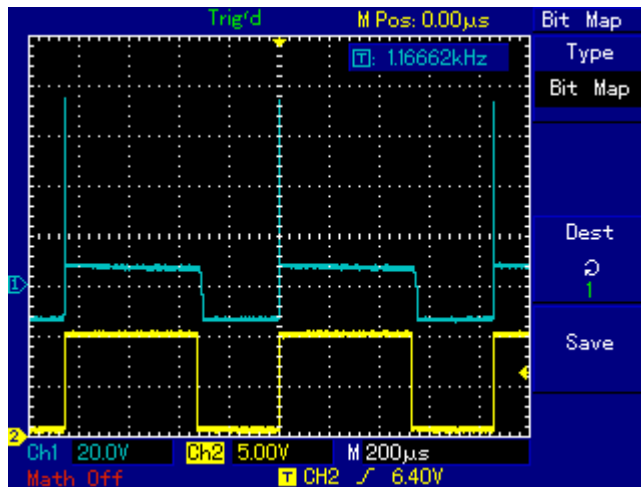
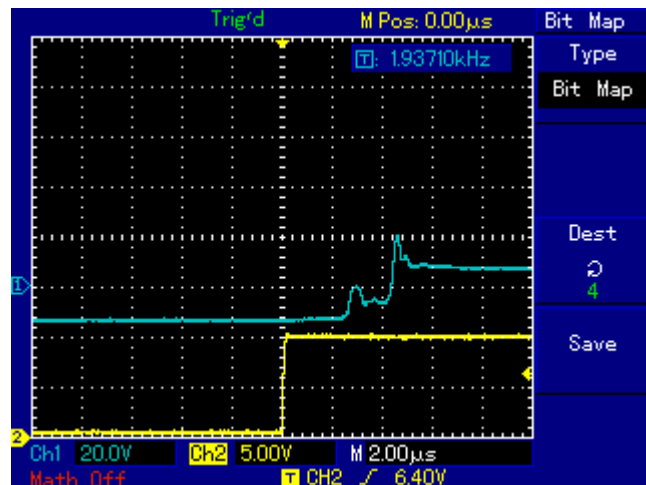


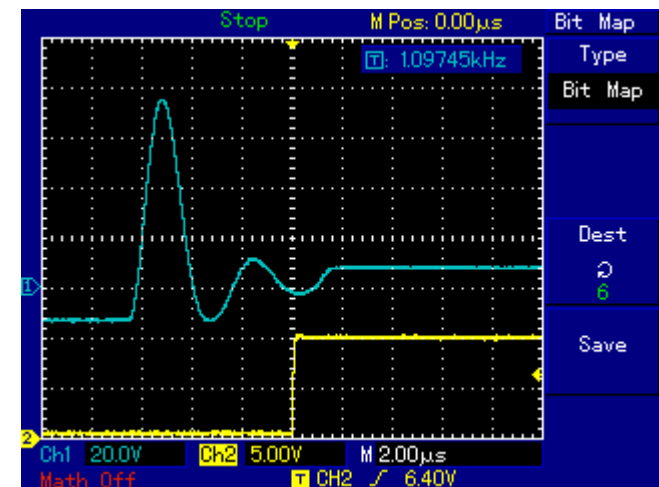


h-wave Is this it ?
 $f = 1,6562 \text{ kHz}$
 $I \approx 420 \text{ mA}$
 $V_{in} 23,77\text{V}$, $V_{charge} 12,10\text{V}$
 $\text{Ch1 } pk \approx 88,8 \text{ V}$, $hi \approx 64,8\text{V}$, $lo \approx -14,4\text{V}$
 $\text{Ch2 } +d = 61,7\%$, $-d = 38,3\%$

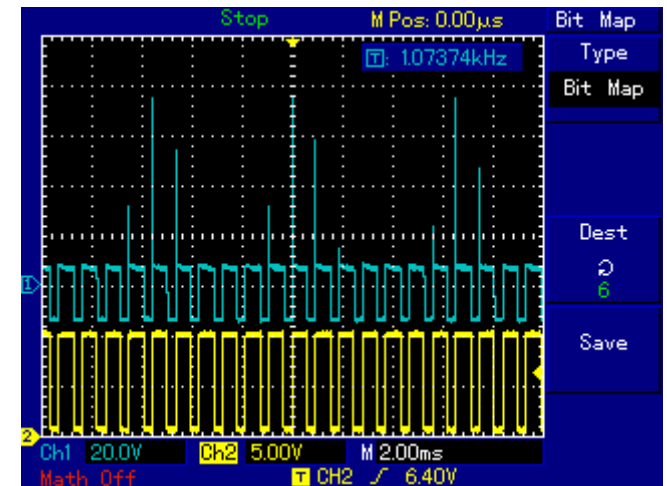
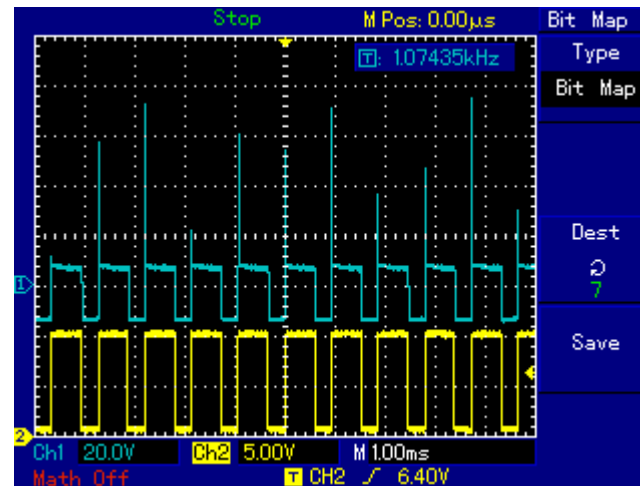
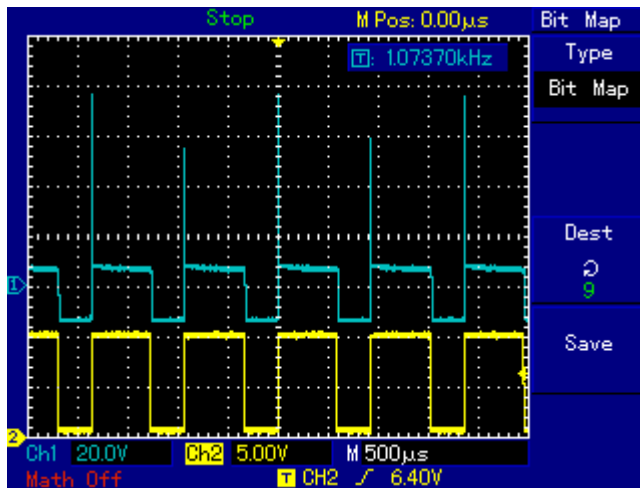
Ch1: pk = peak, hi =high, lo = low; Ch2: +d = +duty, -d = -duty - values from DSO measurement function



Same setup like above.
 Frequency changed to: $1,9371 \text{ kHz}$
 $\text{Ch2 } +d = 62,0\%$, $-d = 38,0\%$
 $I \approx 500 \text{ mA}$



Same setup like above.
 Frequency changed to $1,0974 \text{ kHz}$
 $\text{Ch2 } +d = 62,3\%$, $-d = 37,7 \text{ \% OFF}$
 $I \approx 430 \text{ mA}$



Peak of the h-Pulses varies. With time base $\geq 2\text{ms}$ the DSO sampling seems to have problems.

When i use Ch1 as trigger and set the trigger threshold to 65,5V then still with time base 5ms the frequency is calculated correct. If i set the trigger threshold to 68V , then the DSO can not calculate the frequency any more. For me that's prove, that the majority of the h-pulses are at least 65,6 V and the DSO has problems to digitize the narrow h-pulses at higher time bases.

With higher time base, i wanted to see how the h-pulses peak varies, to see if there is a certain pattern, which may give a clue how to do further optimisation. With my DSO, it seems not possible to achive this.

