

# ***Data of config\_a***

## *Experimental Clarification of Coulomb-Field Propagation*

Last update of this document: 2016-05-12

### **Experimental setup**

#### **Measurement 1**

#### **Measurement 2**

#### **Measurement 3**

#### **Measurement 4**

#### **Measurement 5**

#### **Further signal-developpment (50 ns/div)**

#### **Further signal-developpment (500 ns/div)**

Report of the experiment: [coulomb\\_experiment.html](#)

Spreadsheed evaluation of the data presented here: [coulomb\\_experiment.xls](#) (config\_a)

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### ***Experimental setup:***

Main experiment (dealing with green and red signals of screen-shots from main oscilloscope):

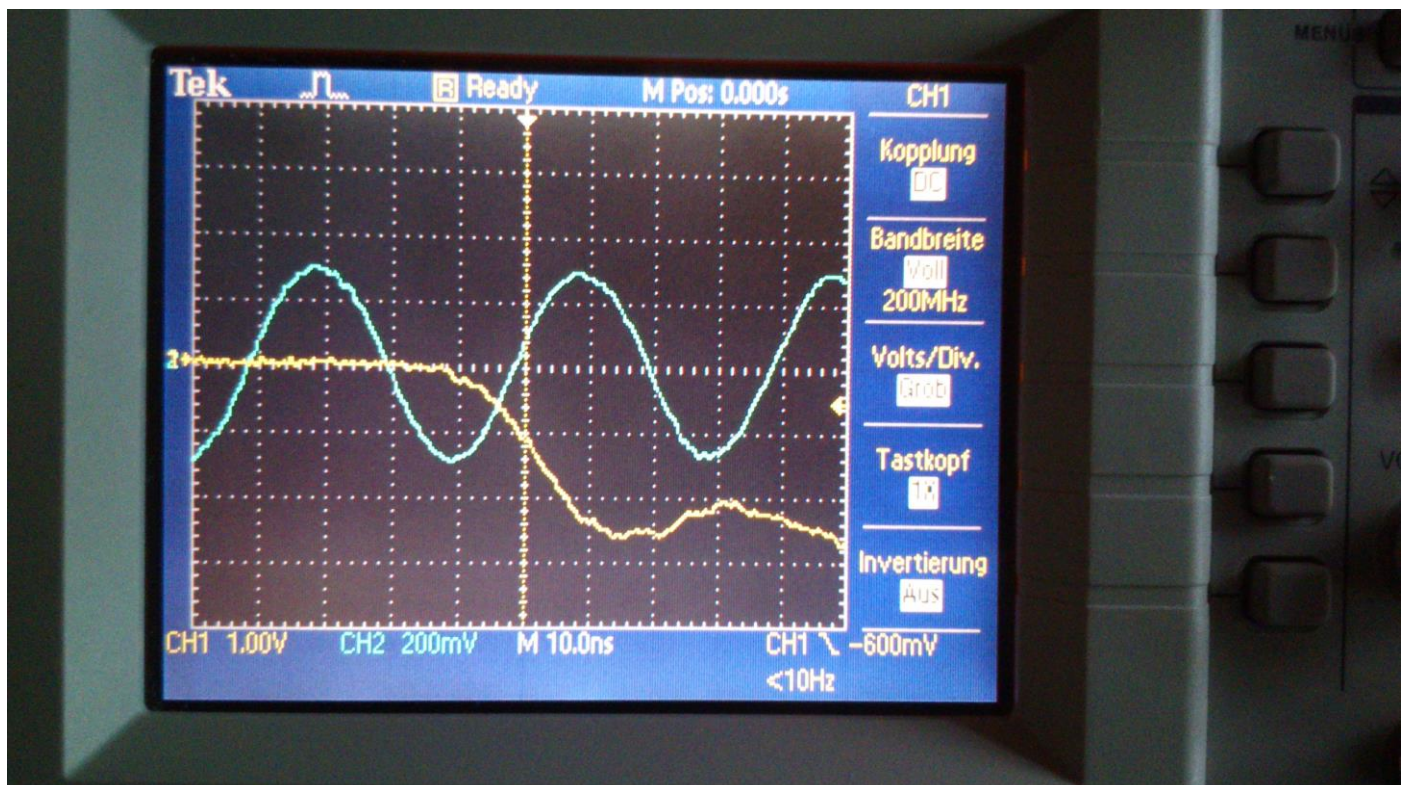
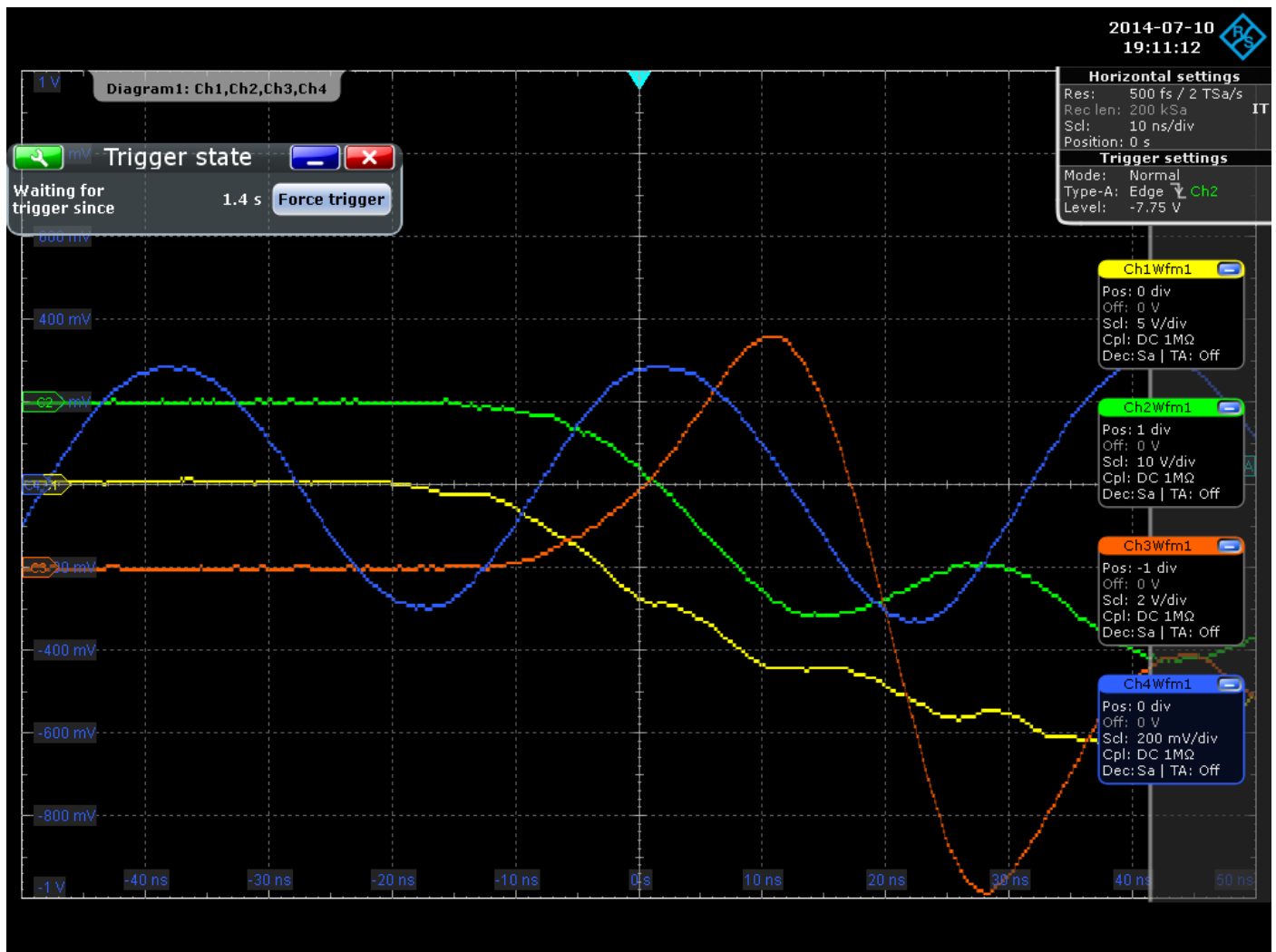
$$\Delta x = 1.65 \text{ m (where } x_{\text{left}} = 1.85 \text{ m and } x_{\text{right}} = 3.5 \text{ m)} \rightarrow \Delta t = \Delta x/c = 5.5 \text{ ns}$$

Control experiment (dealing with yellow signals of screenshots from both oscilloscopes, synchronized by blue signals):

$$\Delta x = 1.5 \text{ m (where dist} = 0.75 \text{ m and } x = 2.25 \text{ m)} \rightarrow \Delta t = \Delta x/c = 5 \text{ ns}$$



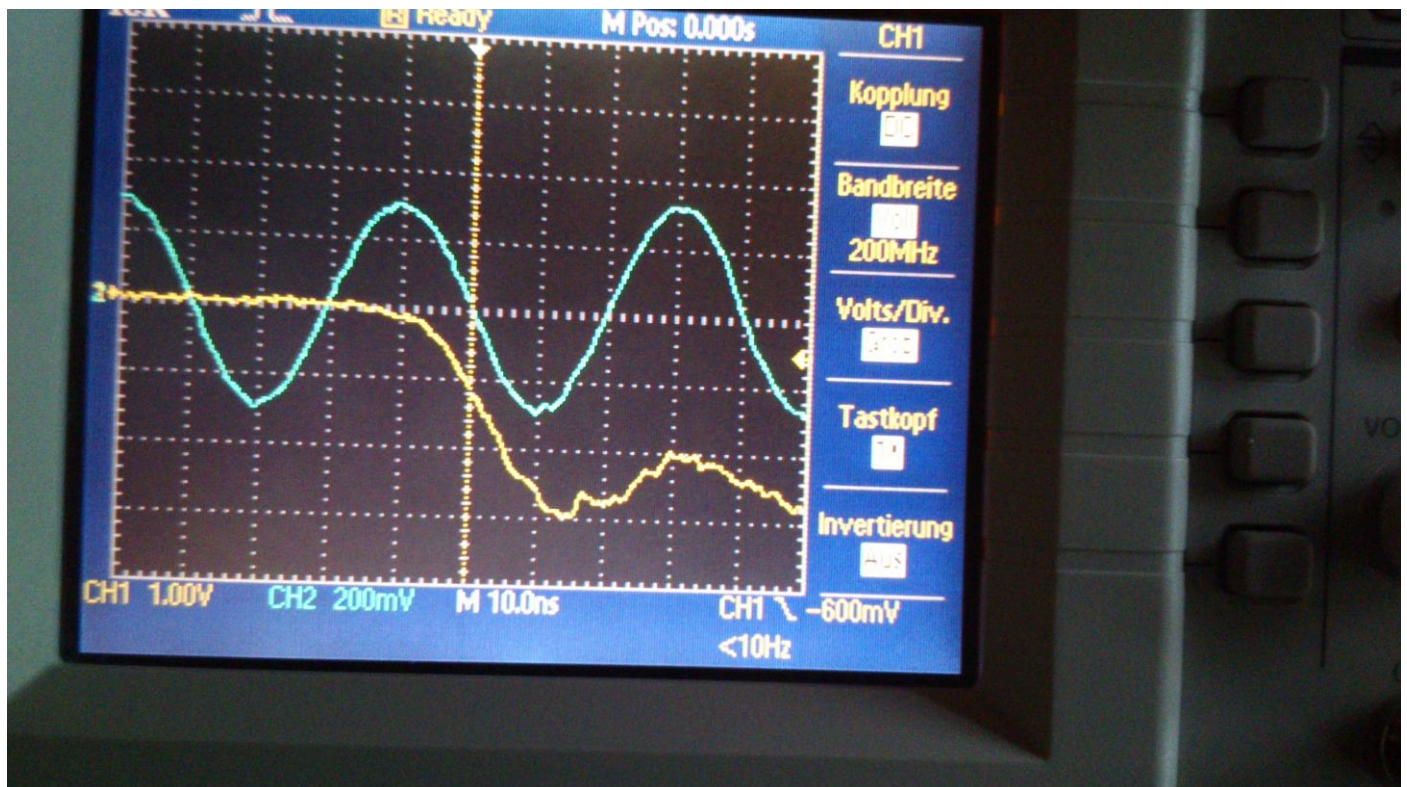
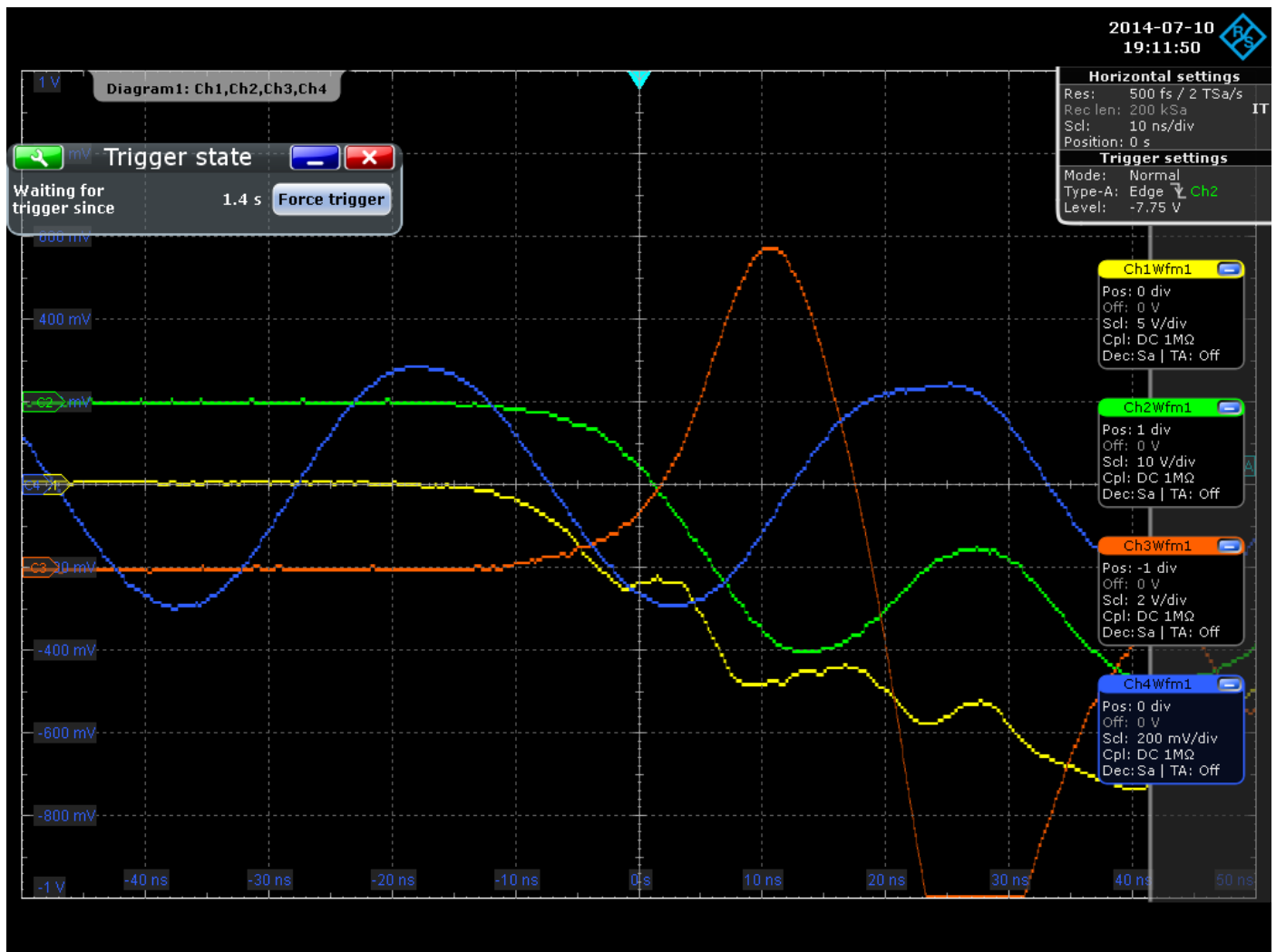
## Config\_a, measurement 1:



End of config\_a, measurement 1

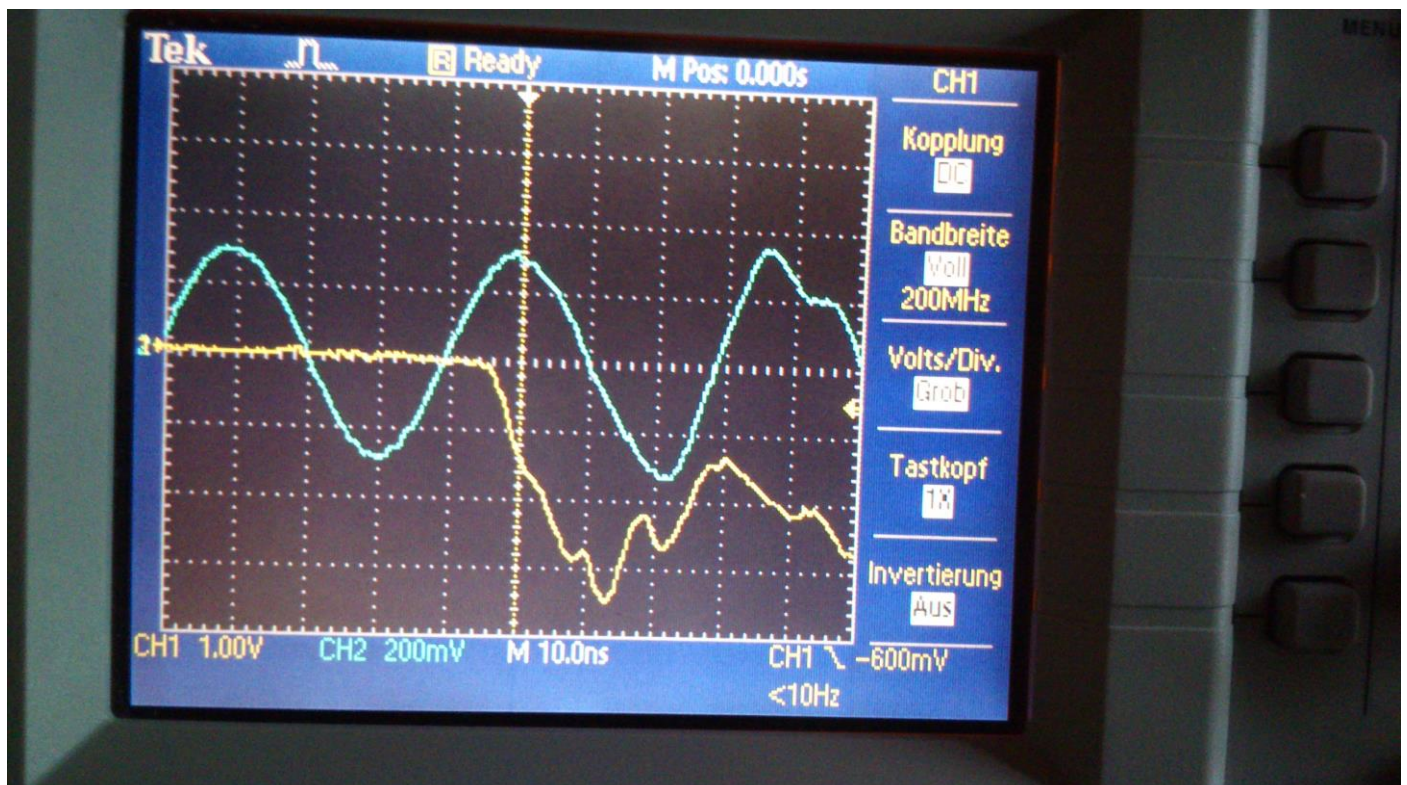
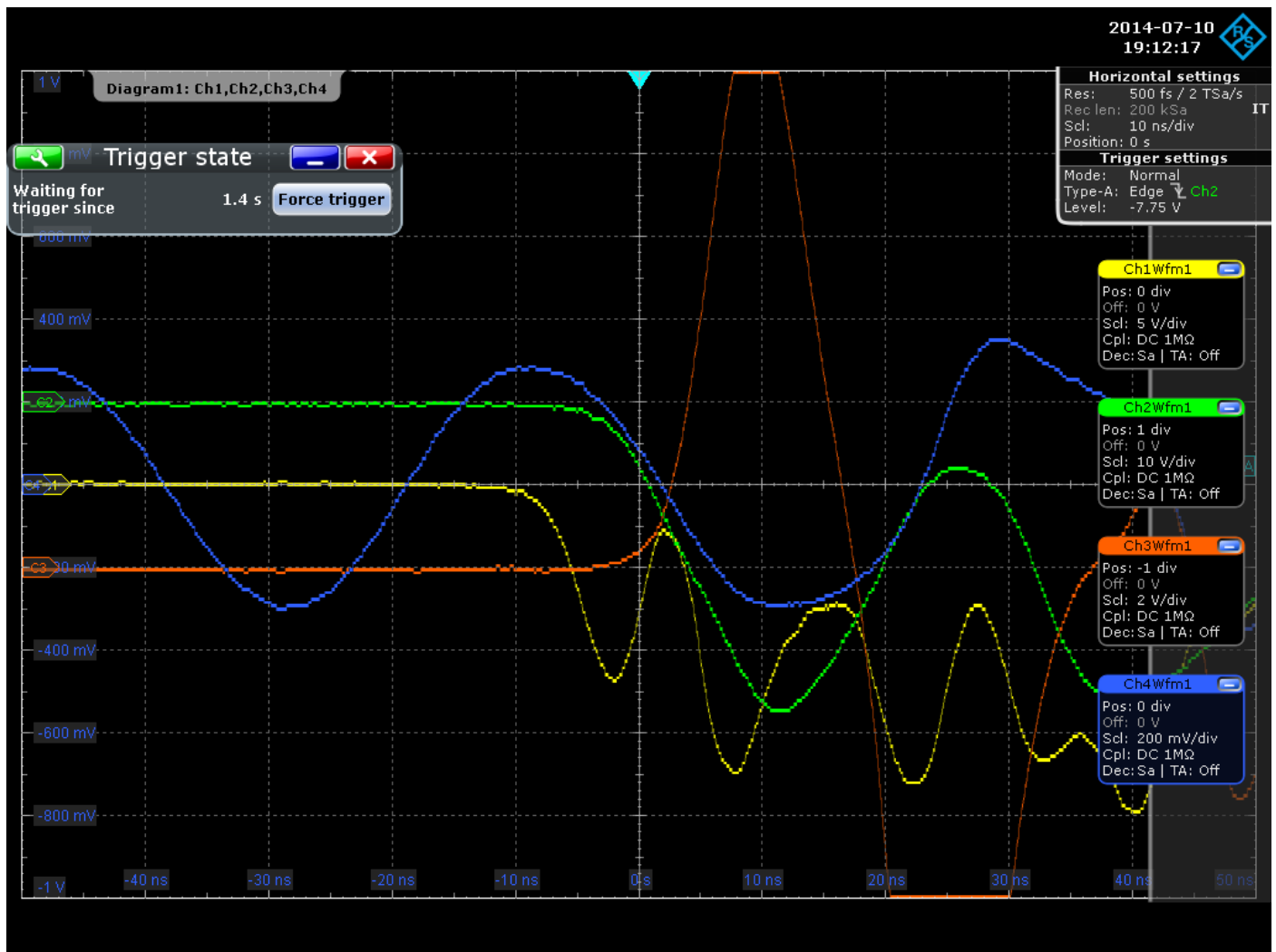


## Config\_a, measurement 2:



End of config\_a, measurement 2

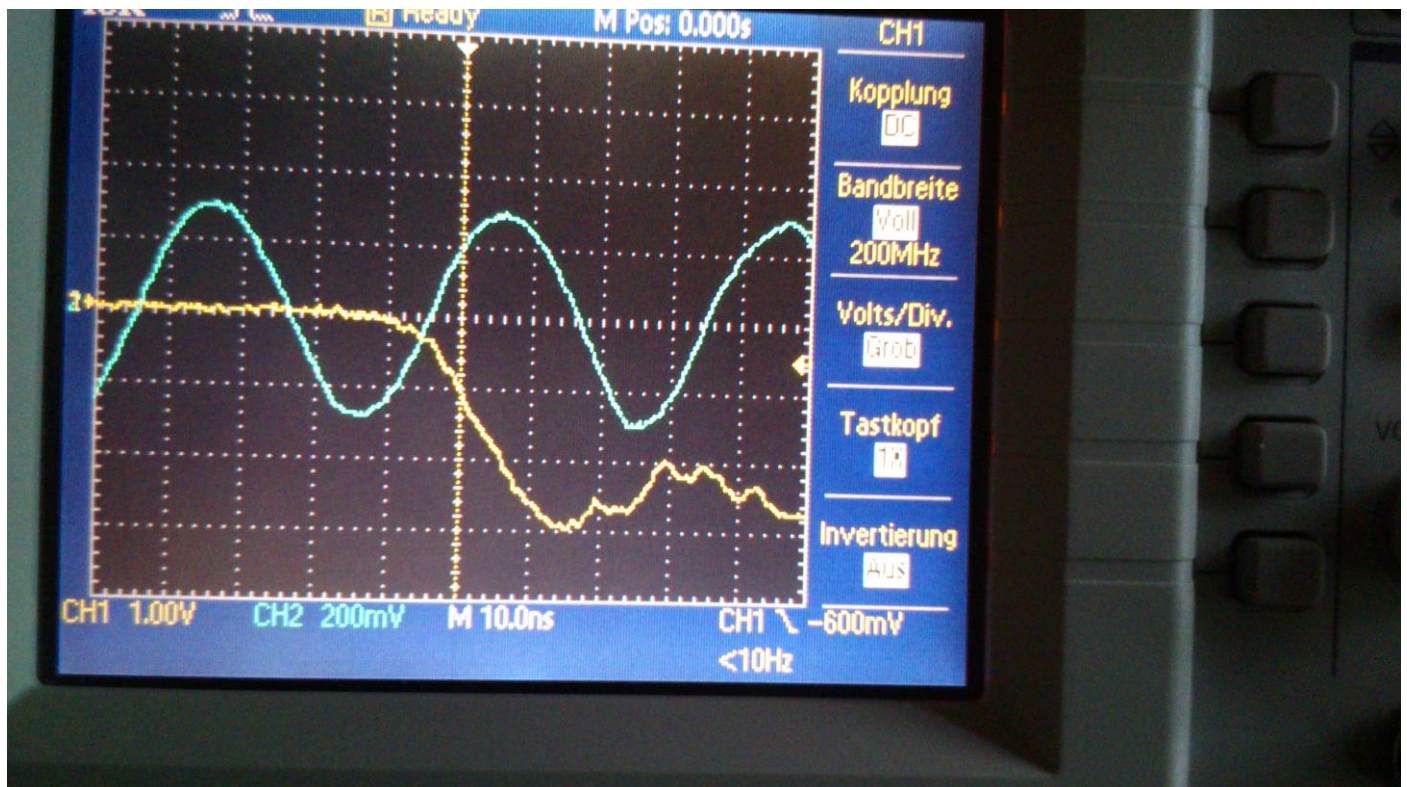
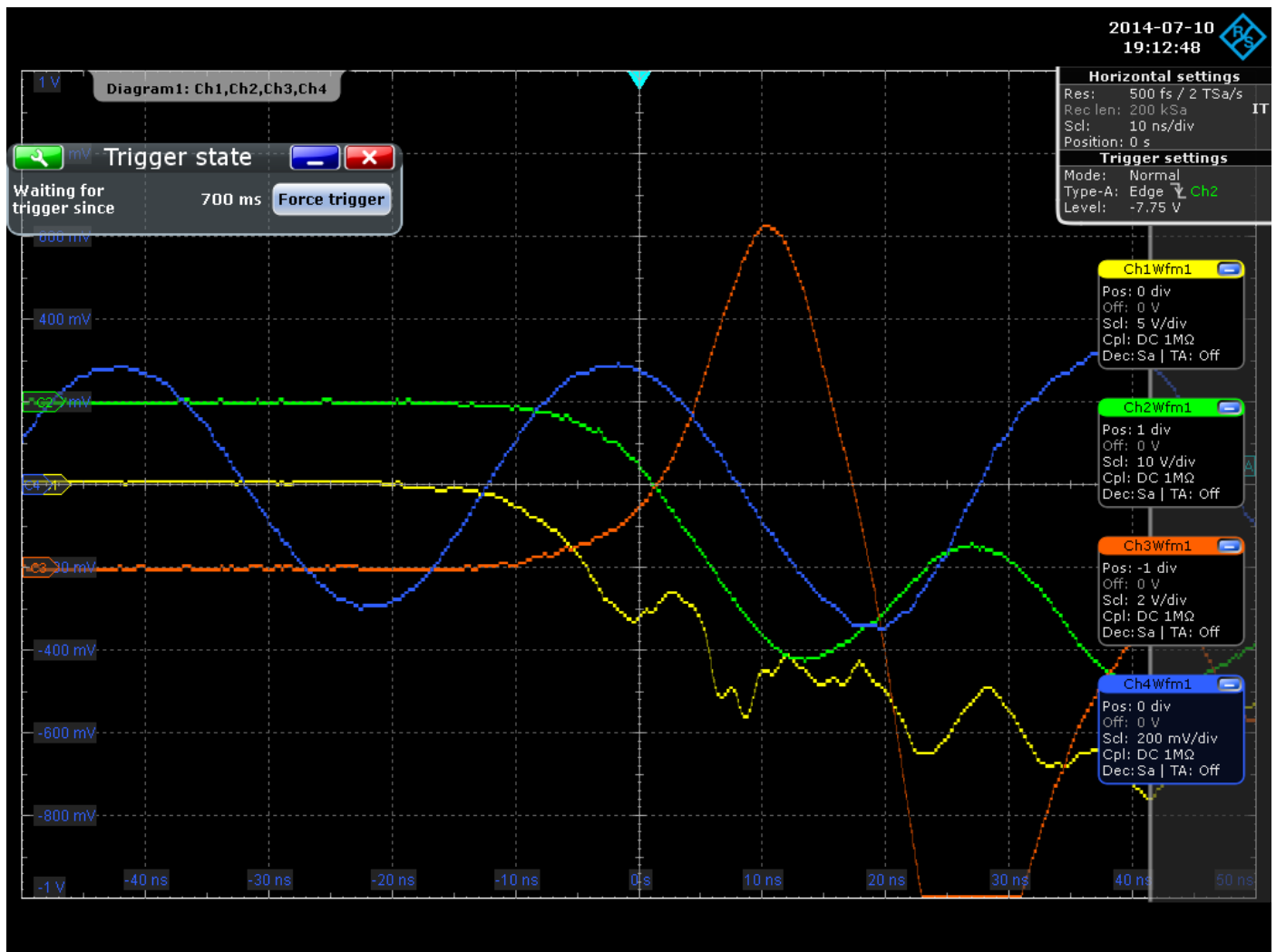
### Config\_a, measurement 3:



End of config\_a, measurement 3

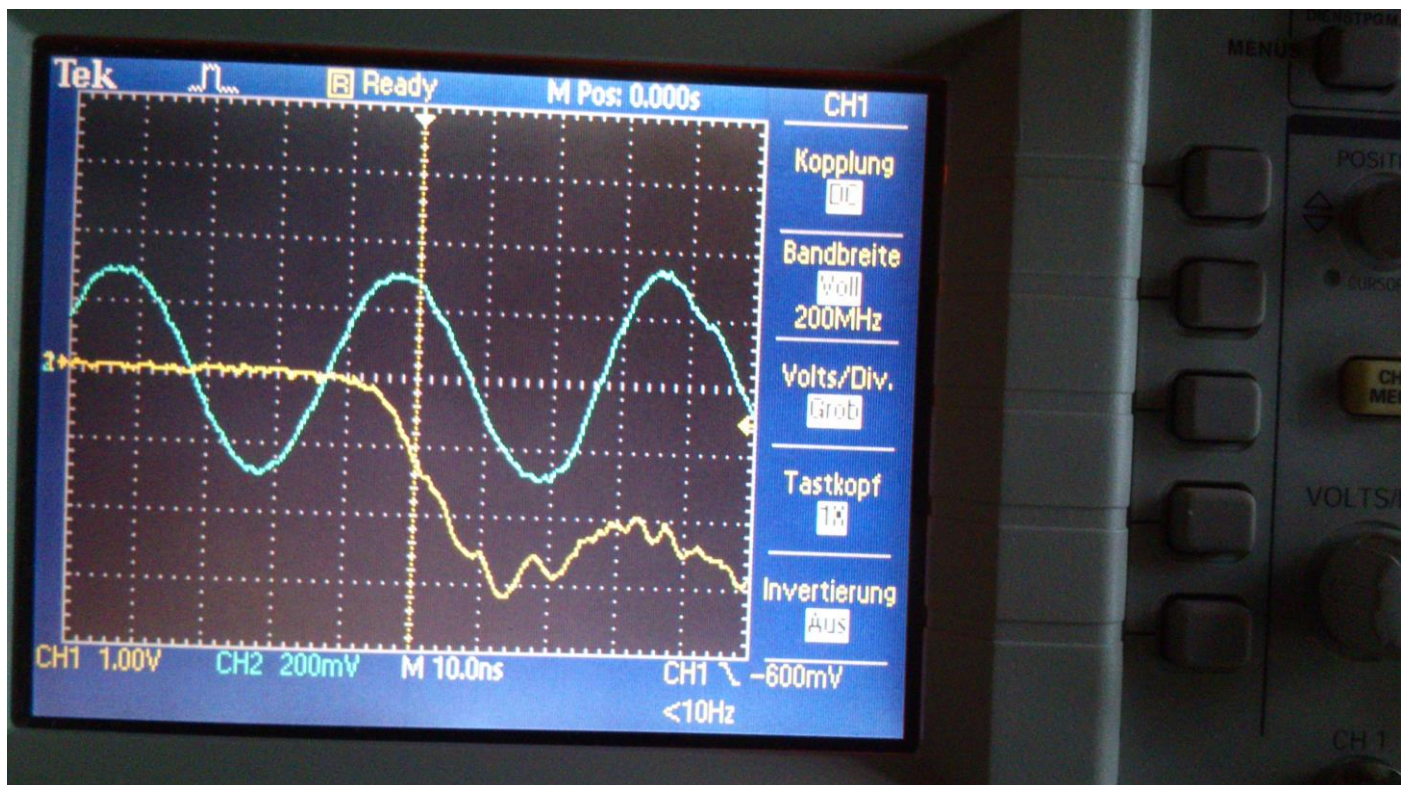
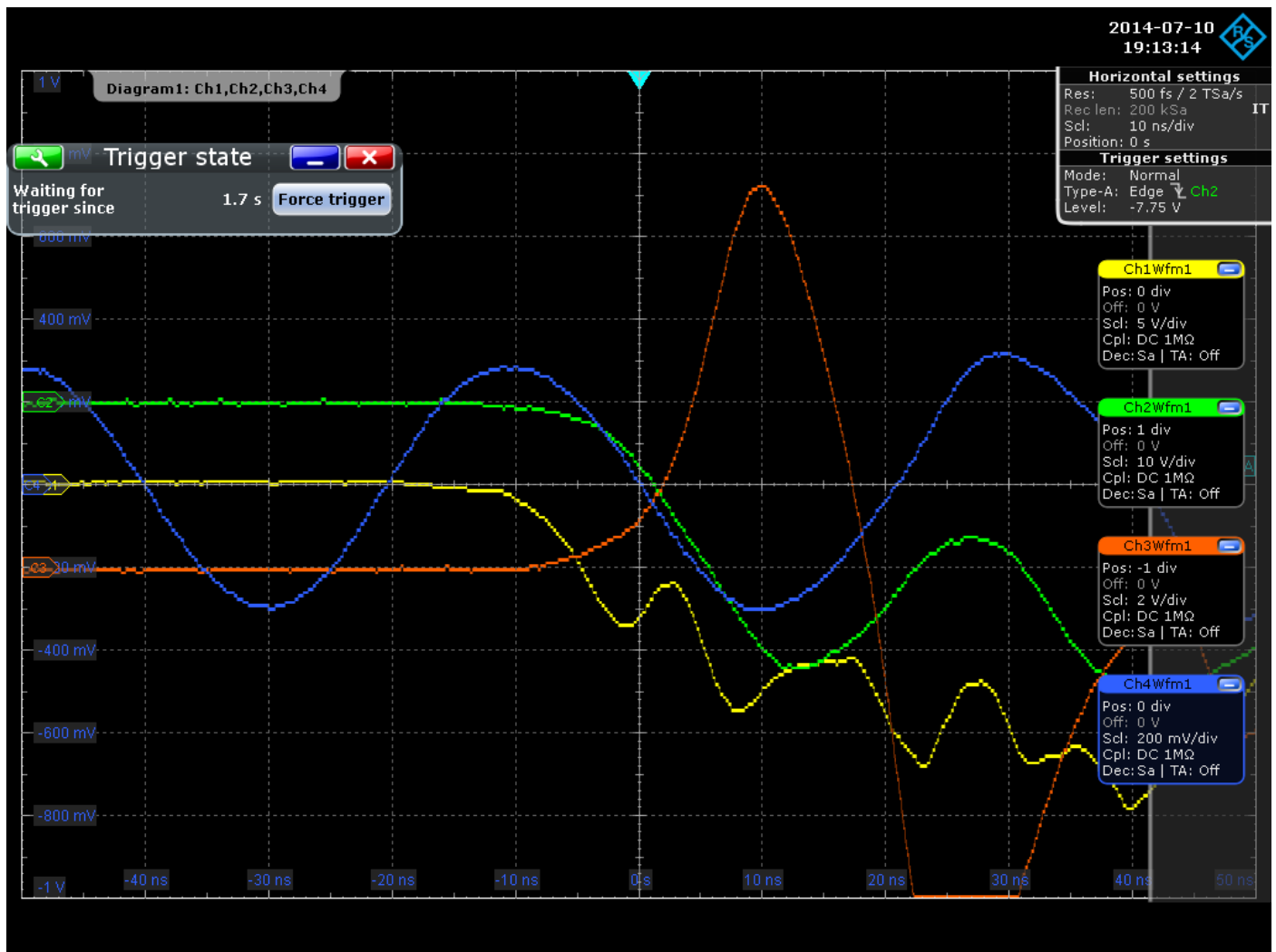


*Config\_a, measurement 4:*



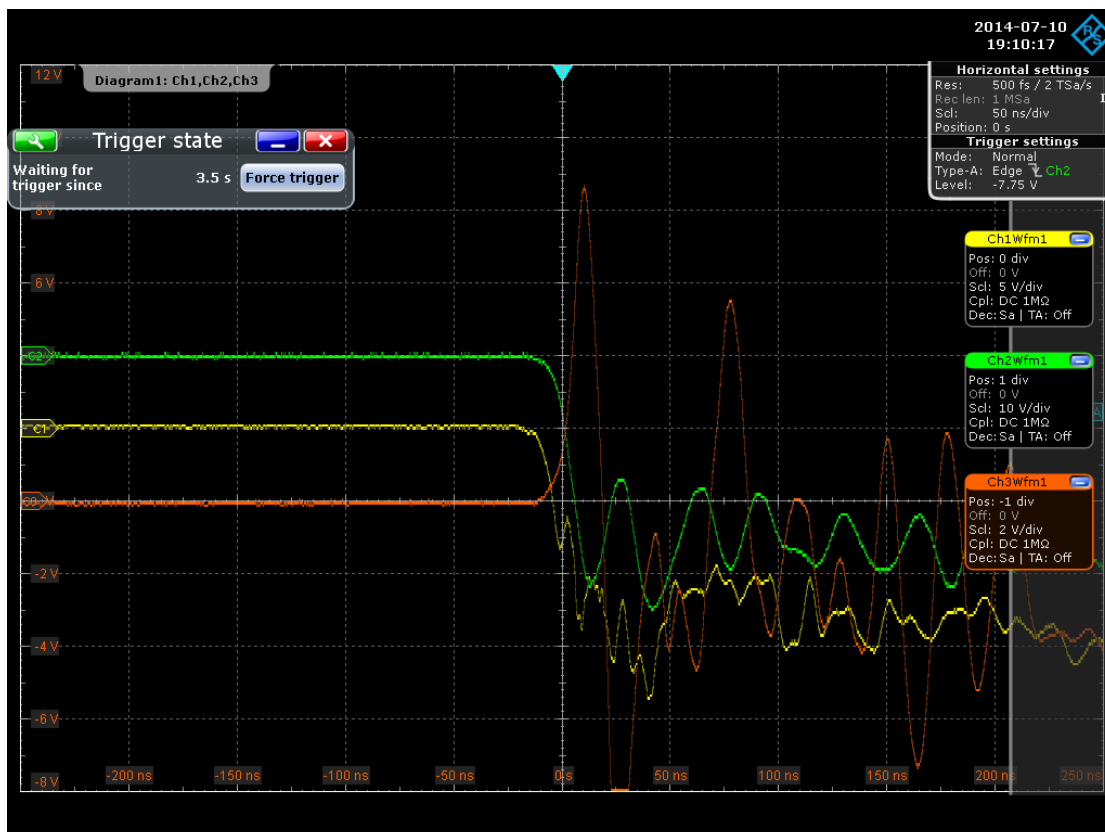
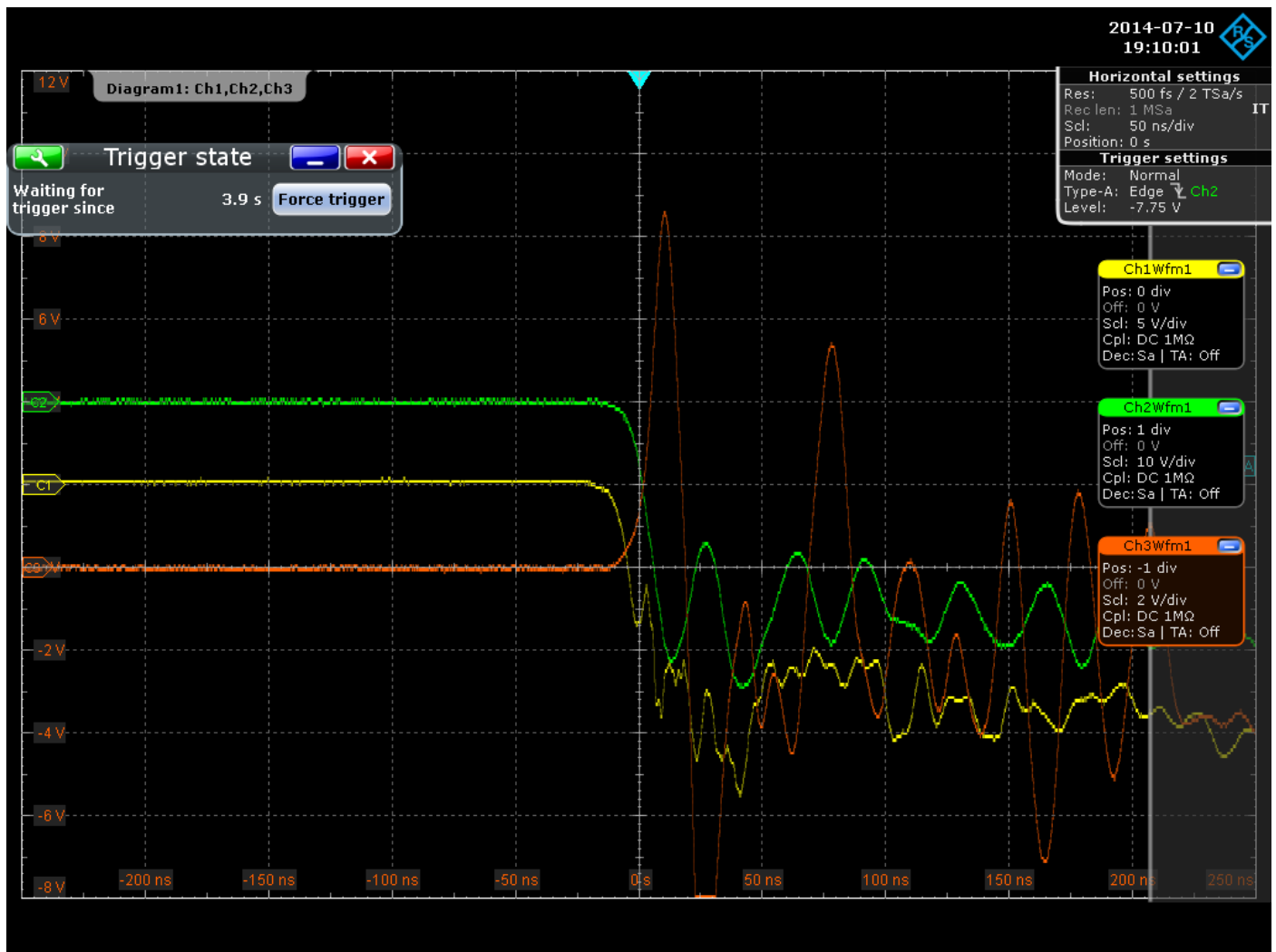
*End of config\_a, measurement 4*

## Config\_a, measurement 5:



End of config\_a, measurement 5

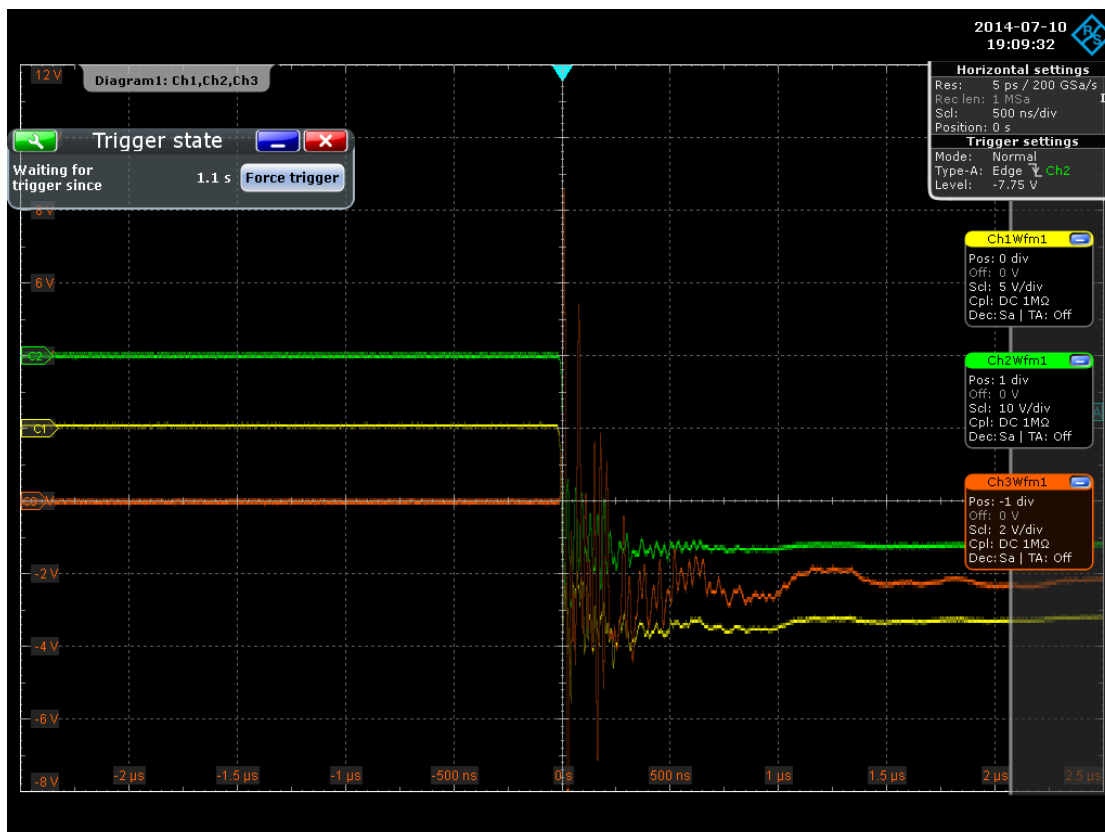
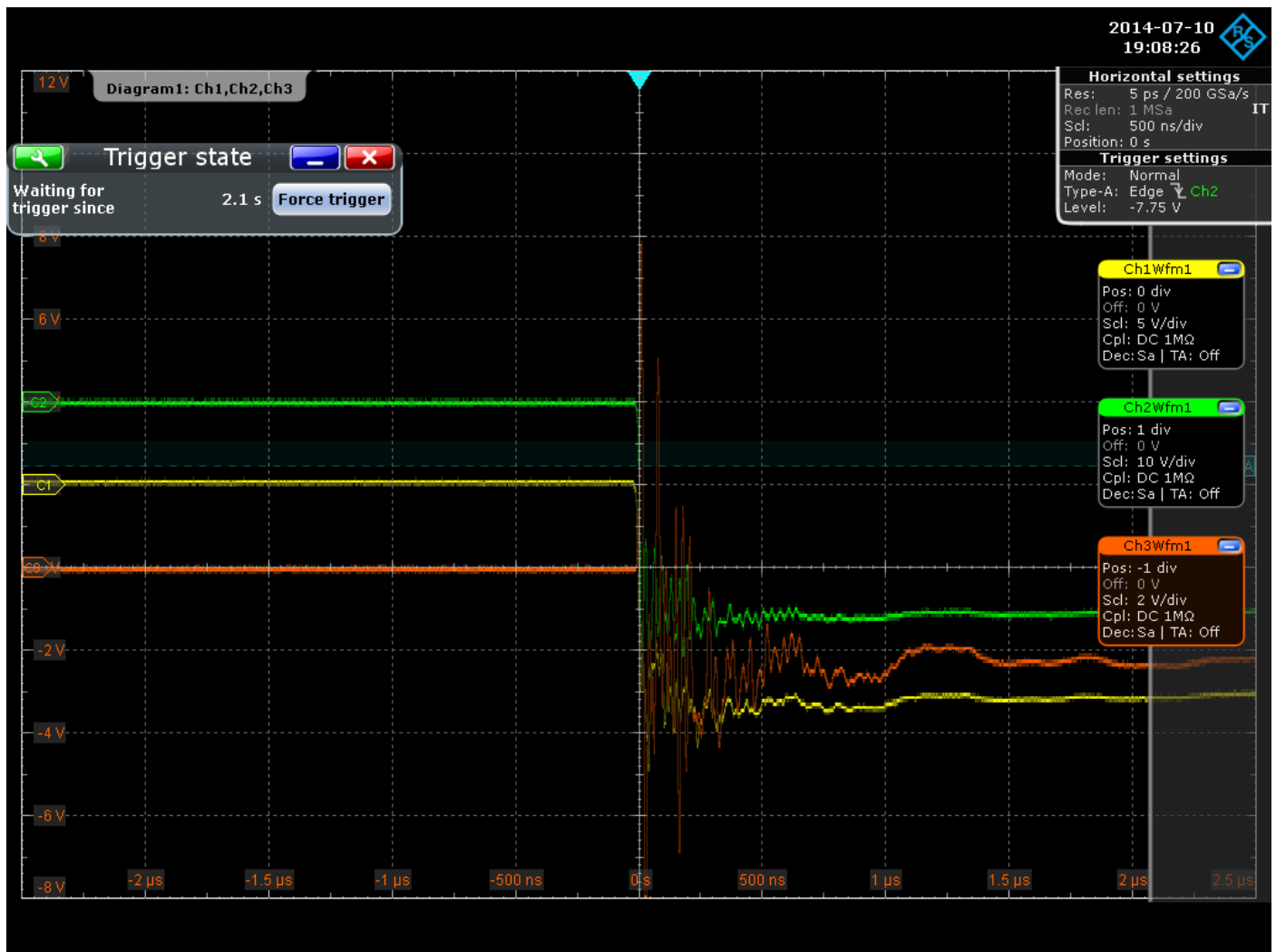
*Config\_a, further signal-development (50 ns/div):*



*End of config\_a, further signal-development (50 ns/div)*



*Config\_a, further signal-development (500 ns/div):*



*End of config\_a, further signal-development (500 ns/div)*