

Data of config_b

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-developoment (50 ns/div)

Further signal-developoment (500 ns/div)

Report of the experiment: coulomb_experiment.html

Spreadsheed evaluation of the data presented here: coulomb_experiment.xls (config_b)

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Experimental setup:

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

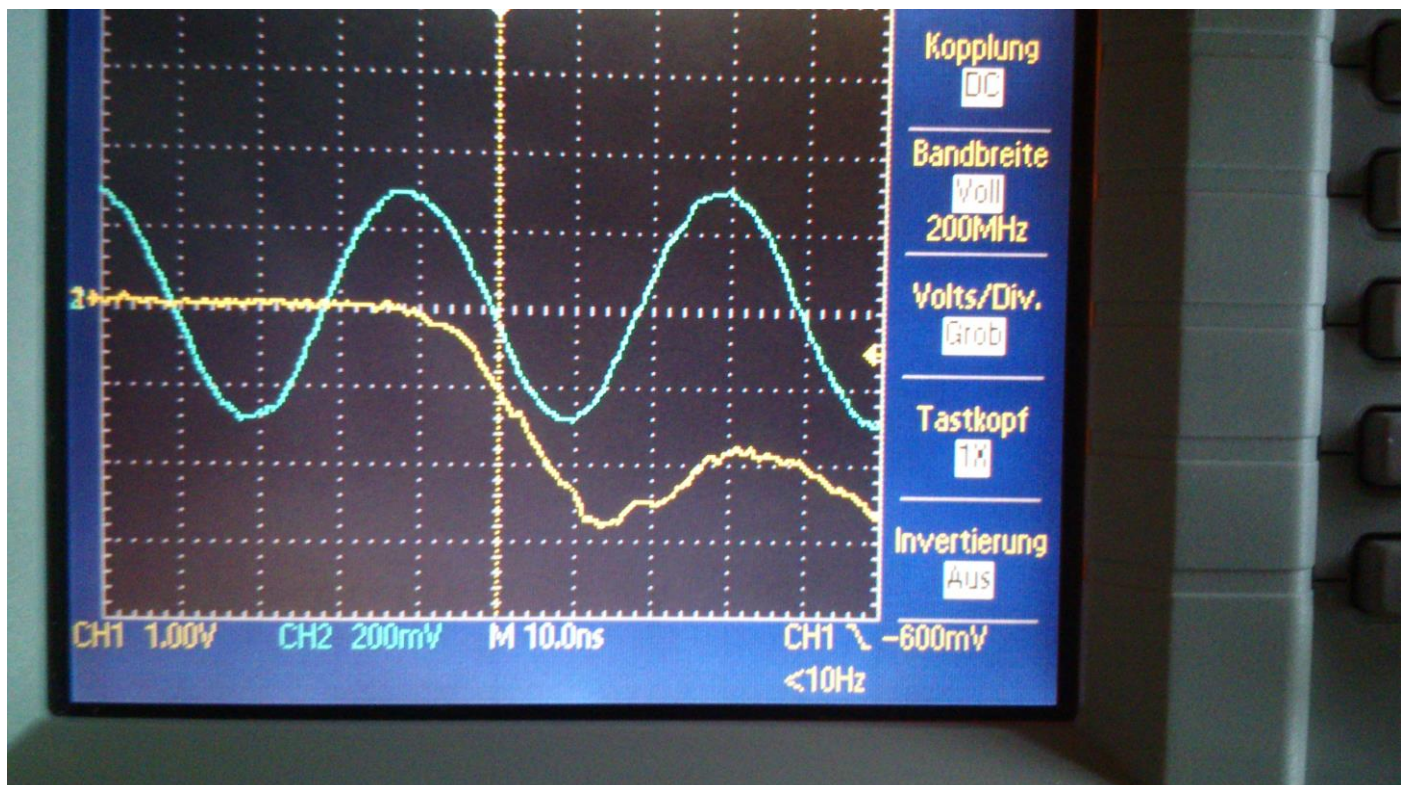
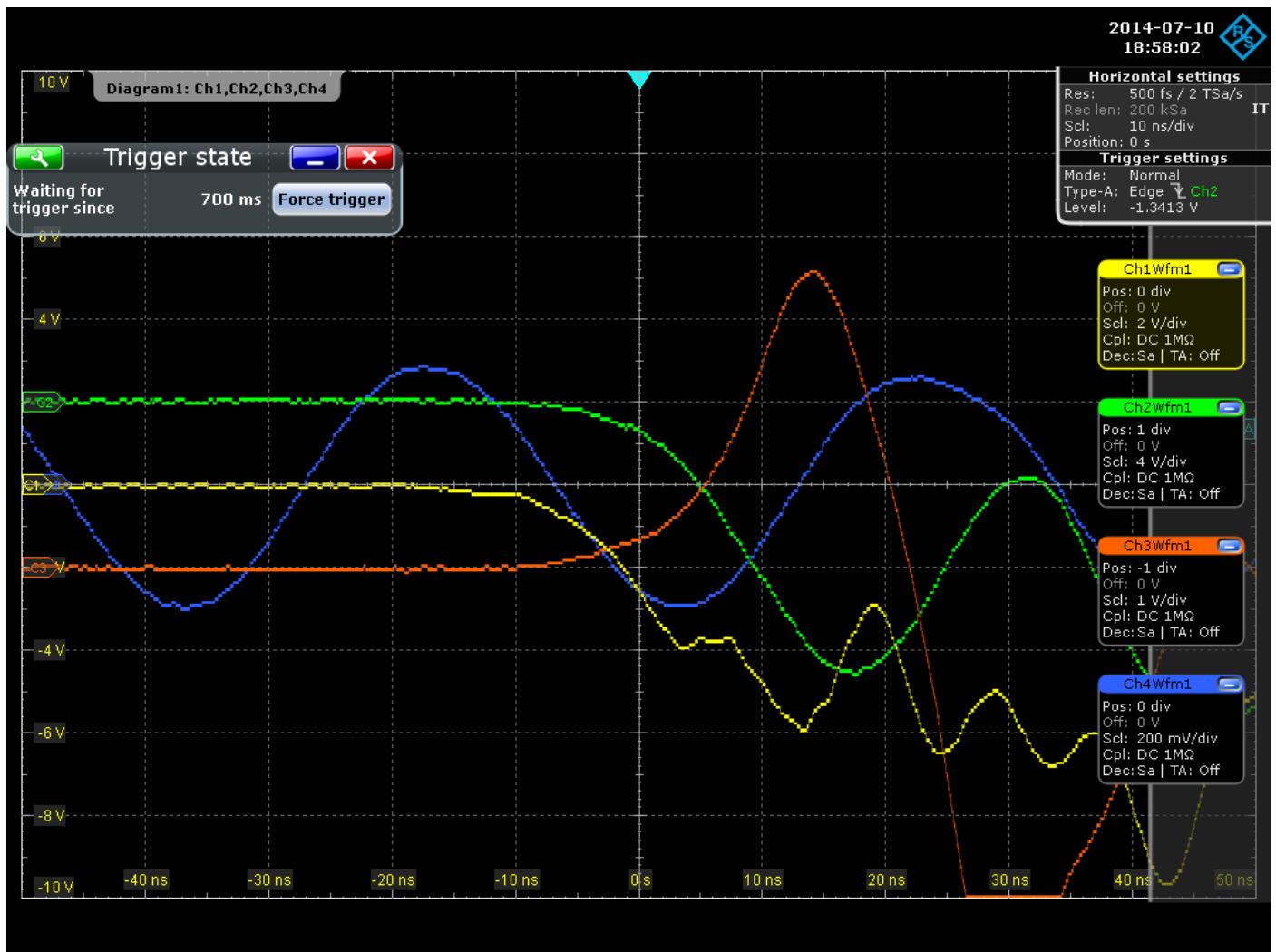
$$\Delta x = 1.65 \text{ m (where } x_{\text{left}} = 2.6 \text{ m and } x_{\text{right}} = 4.25 \text{ m)} \rightarrow \Delta t = \Delta x/c = 5.5 \text{ ns}$$

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

$$\Delta x = 2.25 \text{ m (where dist} = 0.75 \text{ m and } x = 3 \text{ m)} \rightarrow \Delta t = \Delta x/c = 7.5 \text{ ns}$$

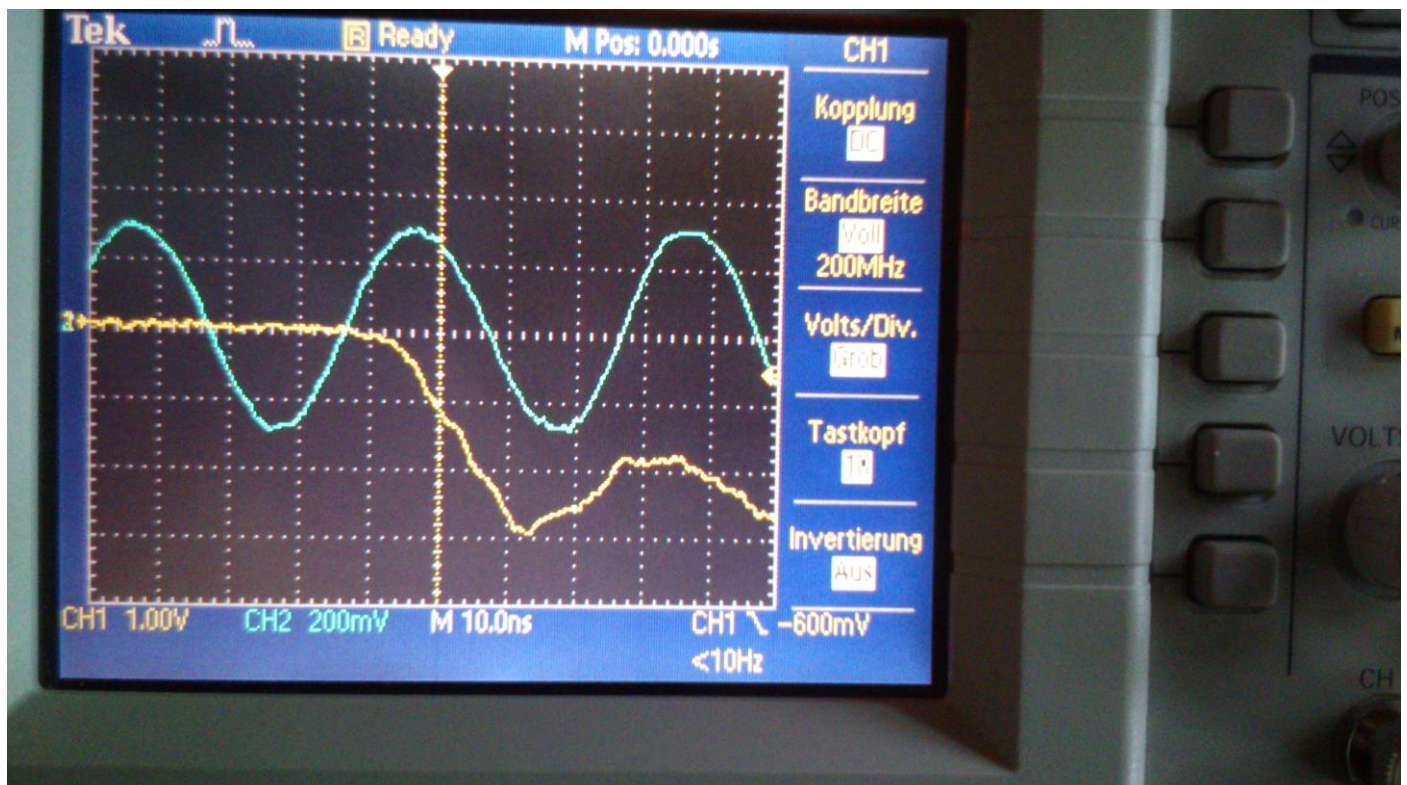
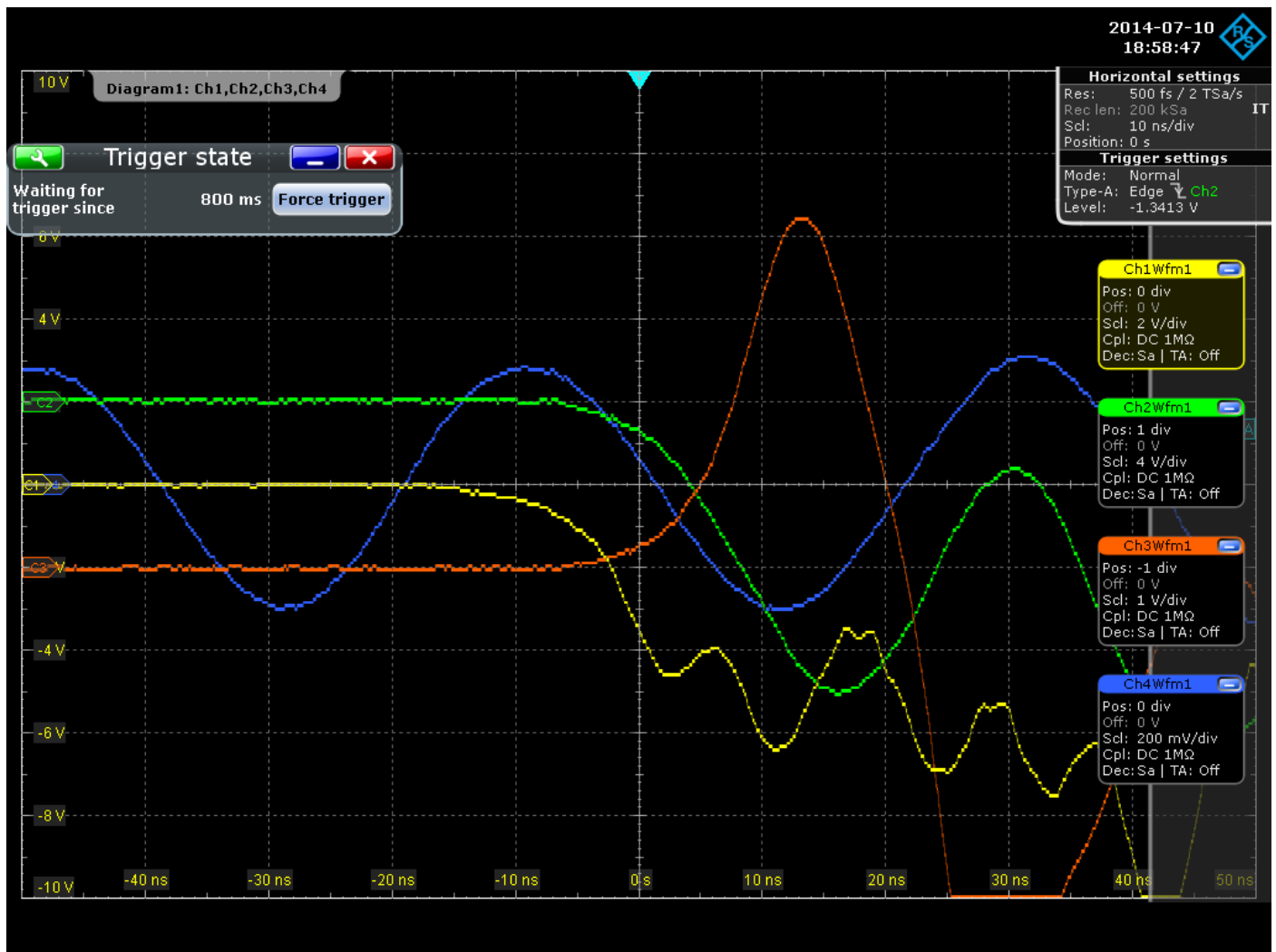


Config_b, measurement 1:



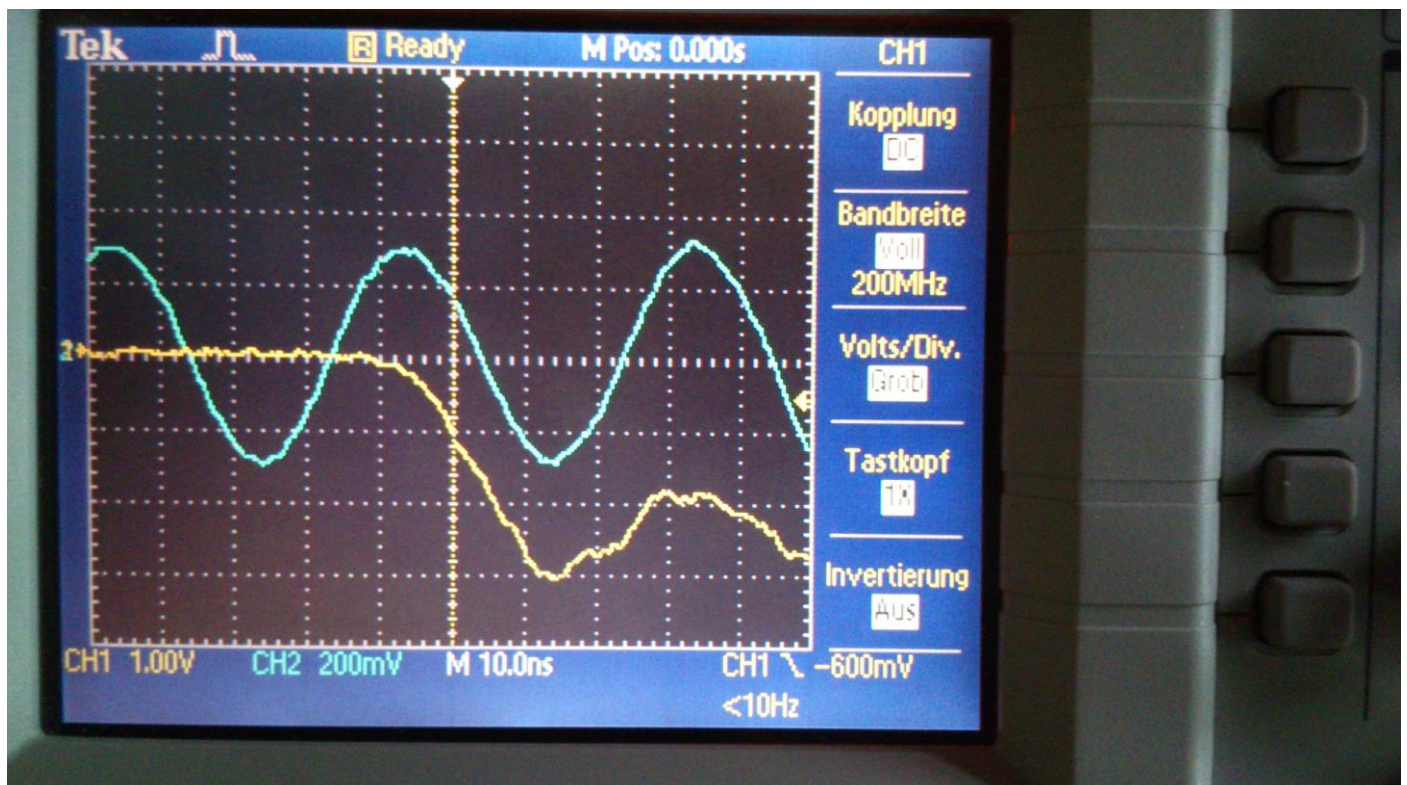
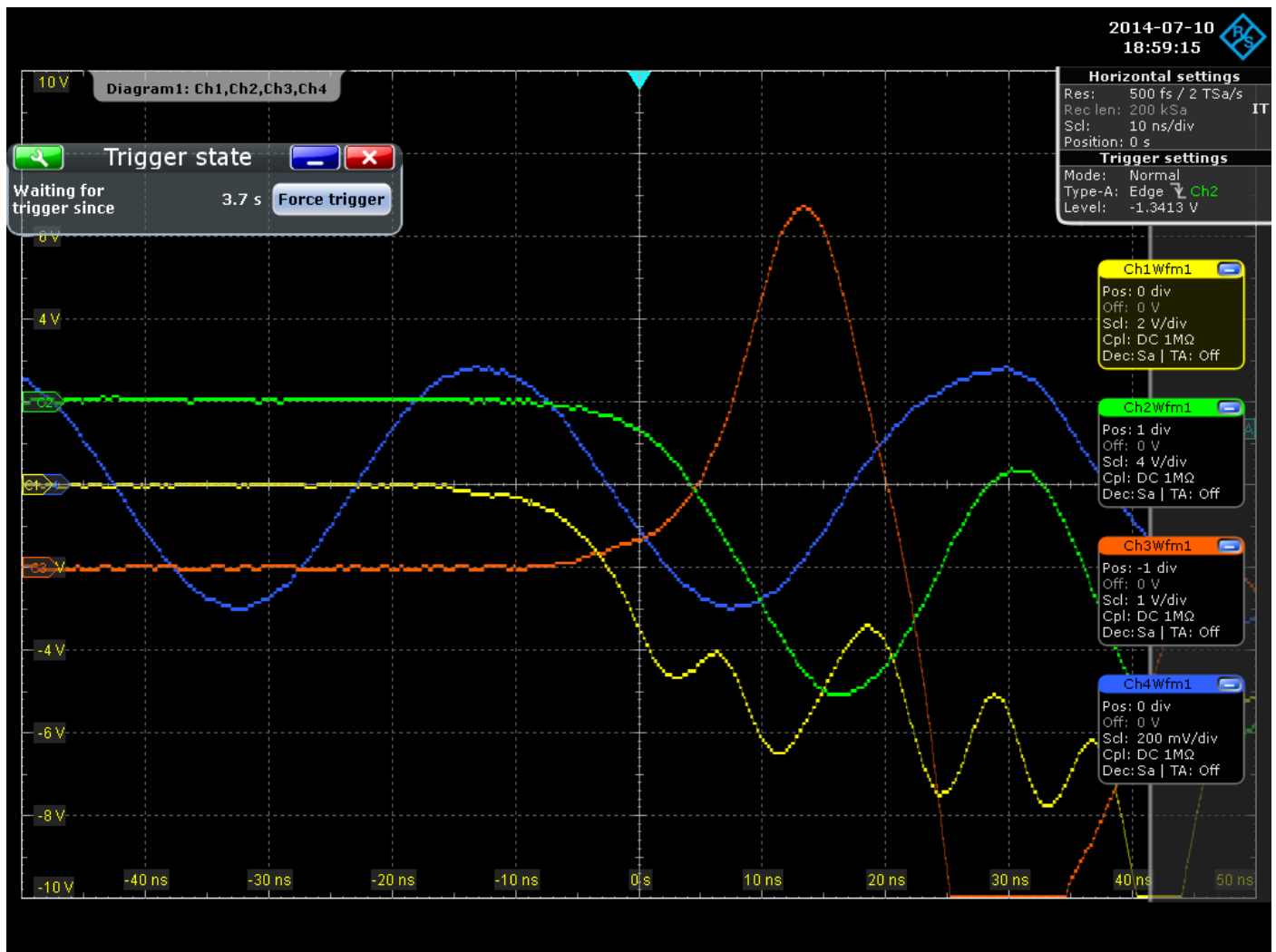
End of config_b, measurement1

Config_b, measurement 2:



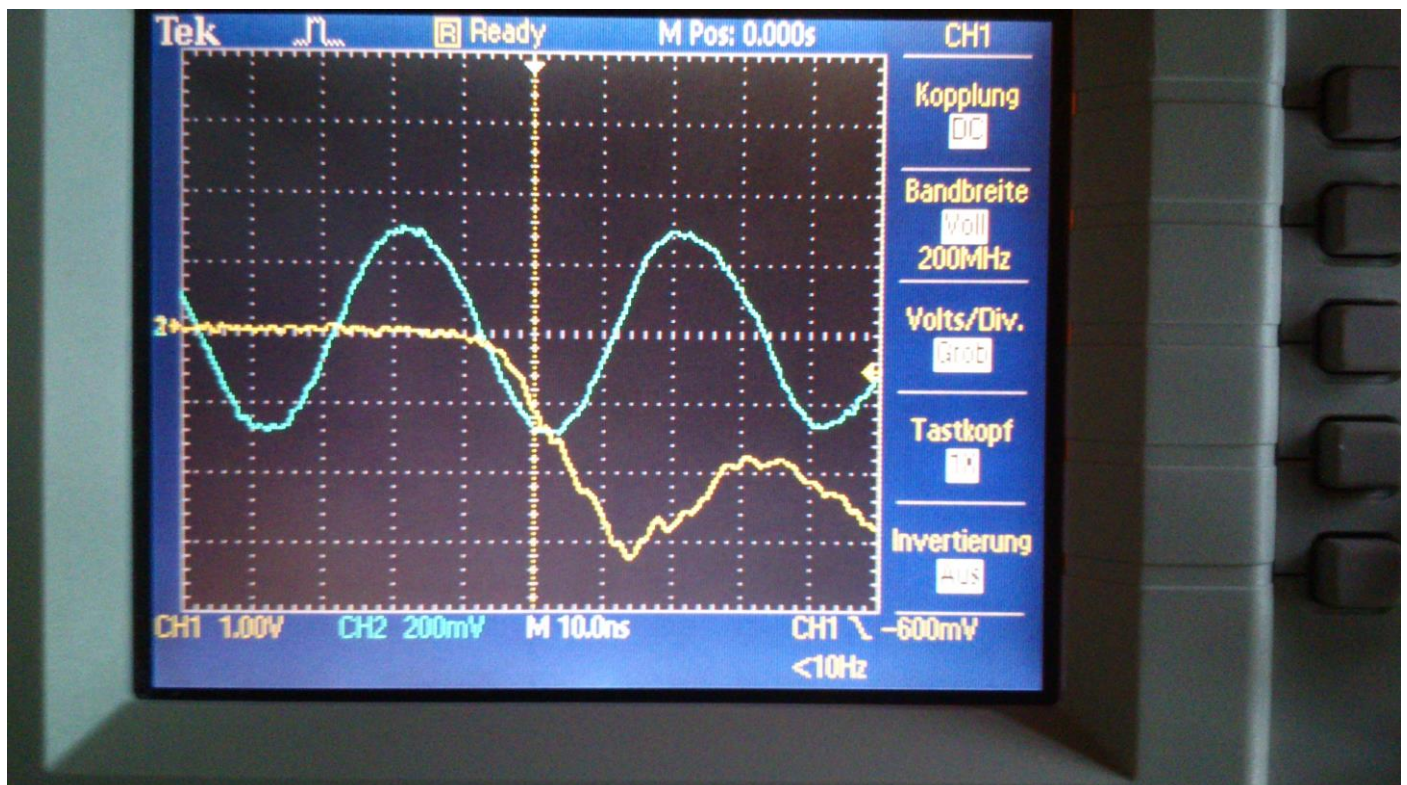
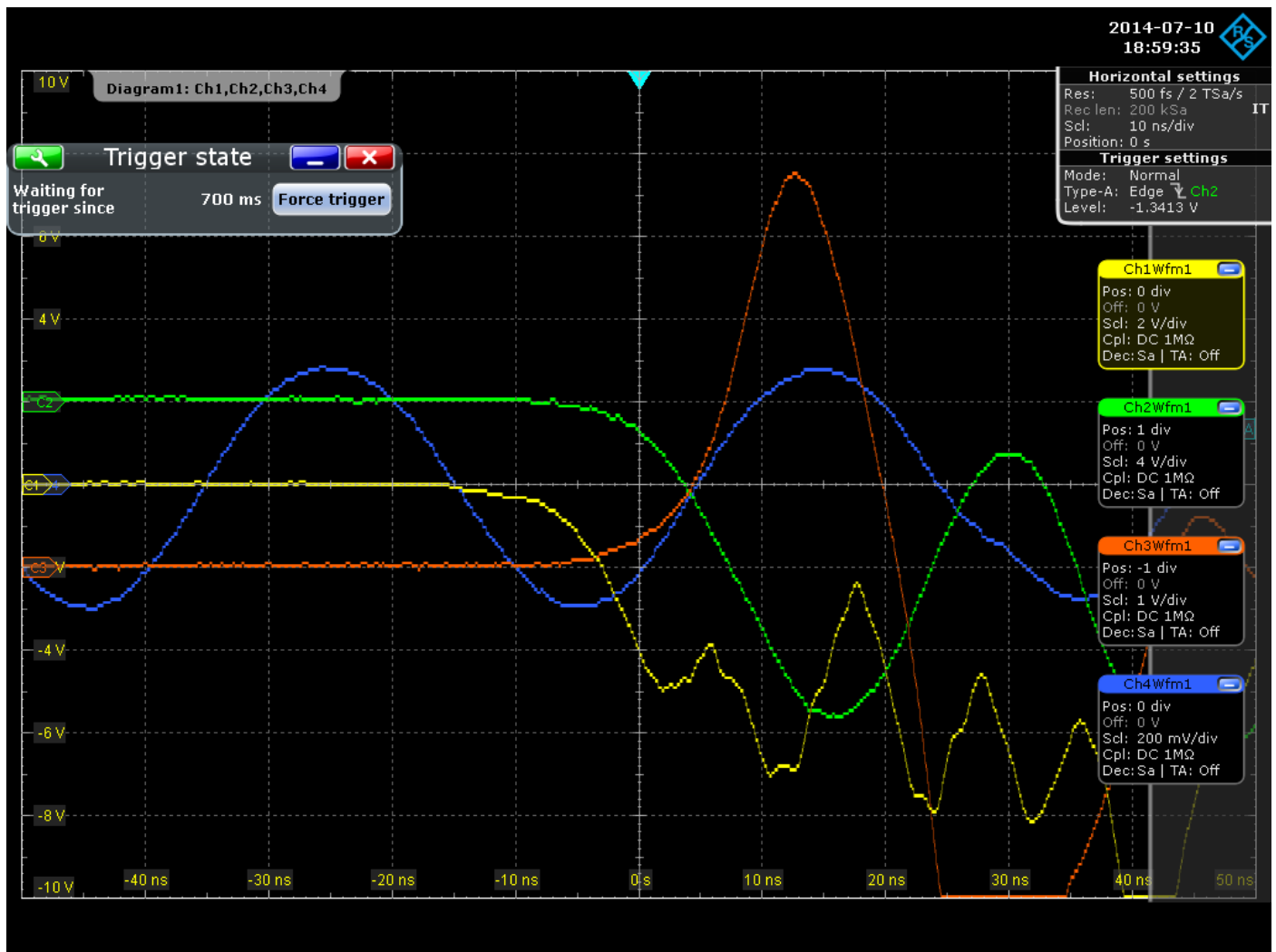
End of config_b, measurement2

Config_b, measurement 3:



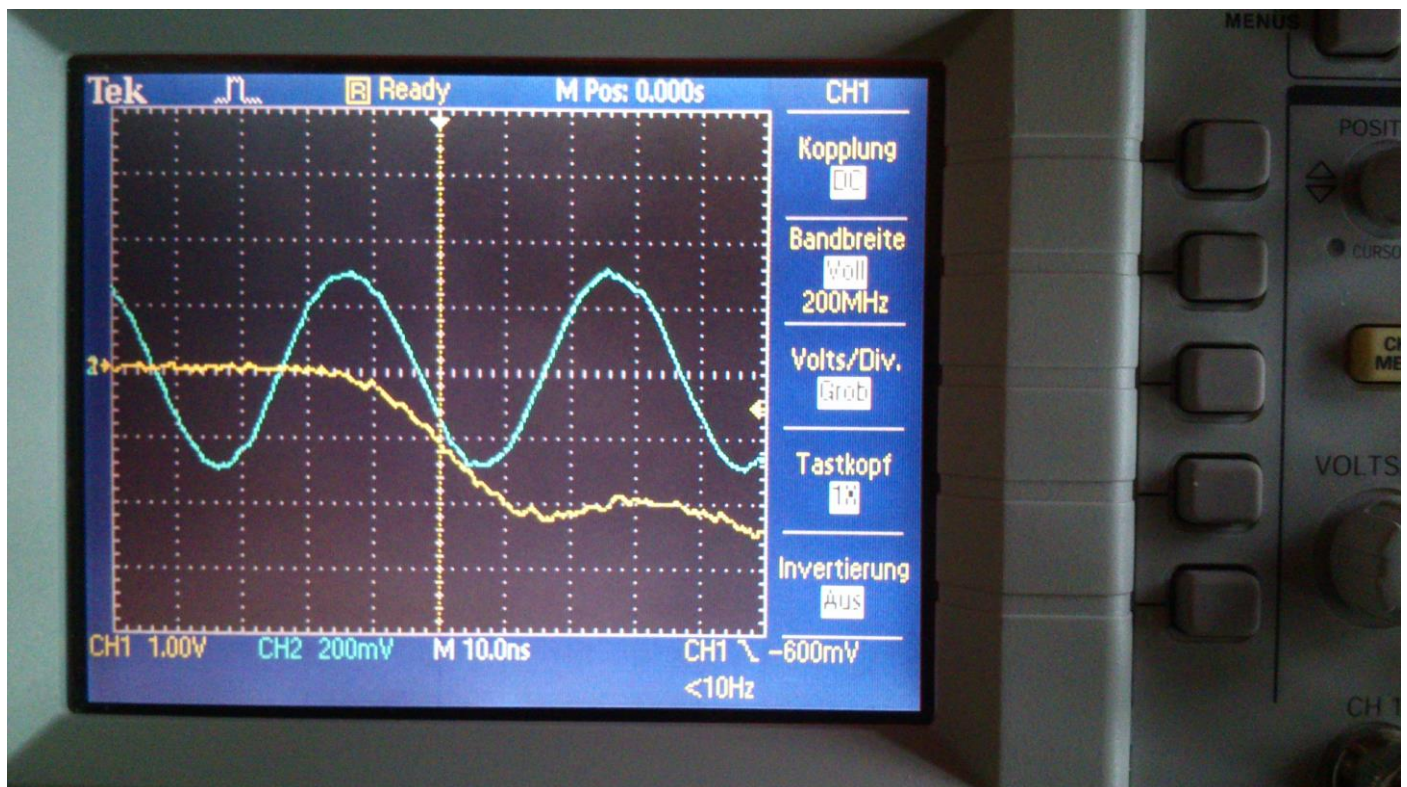
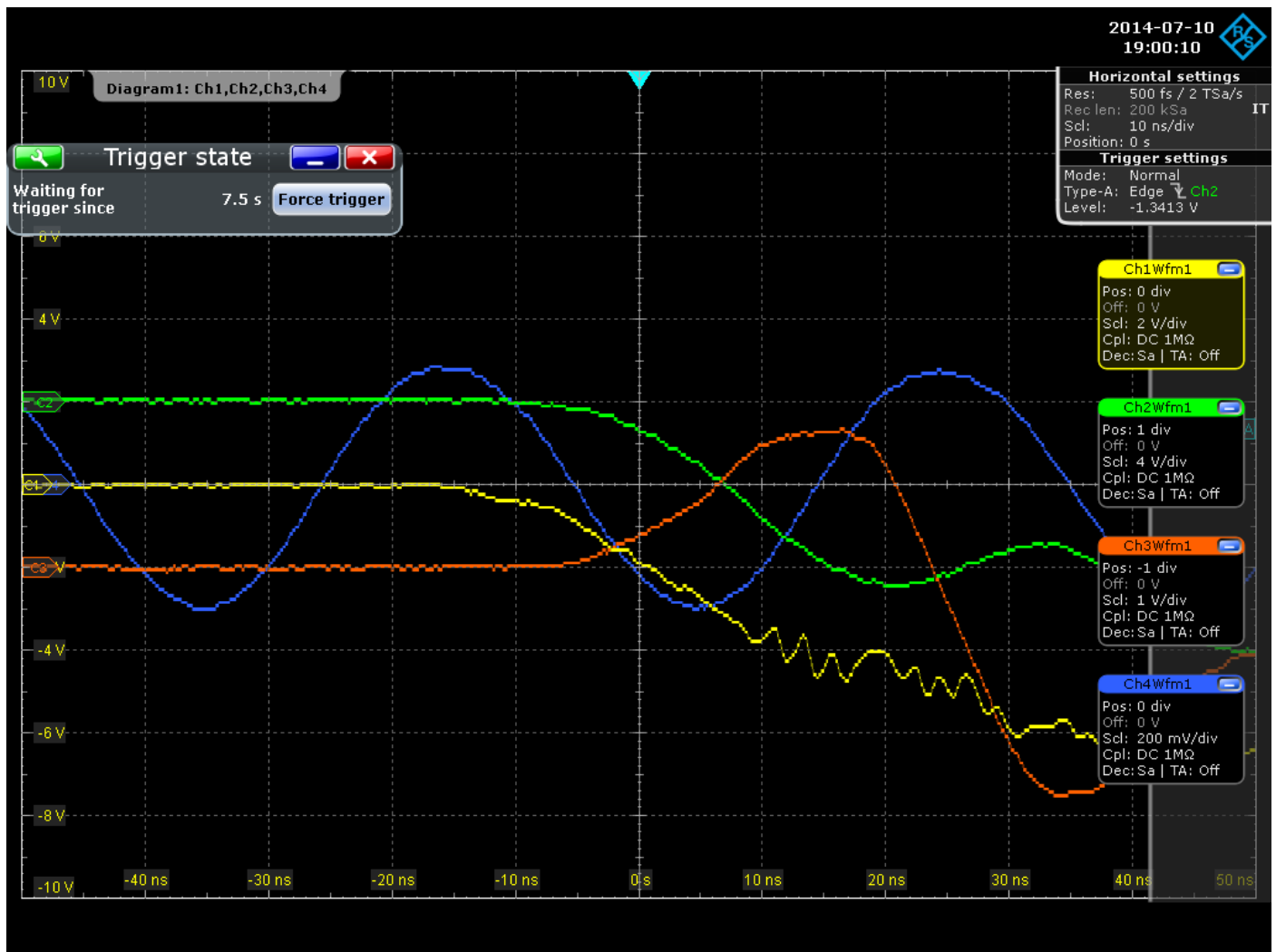
End of config_b, measurement3

Config_b, measurement 4:



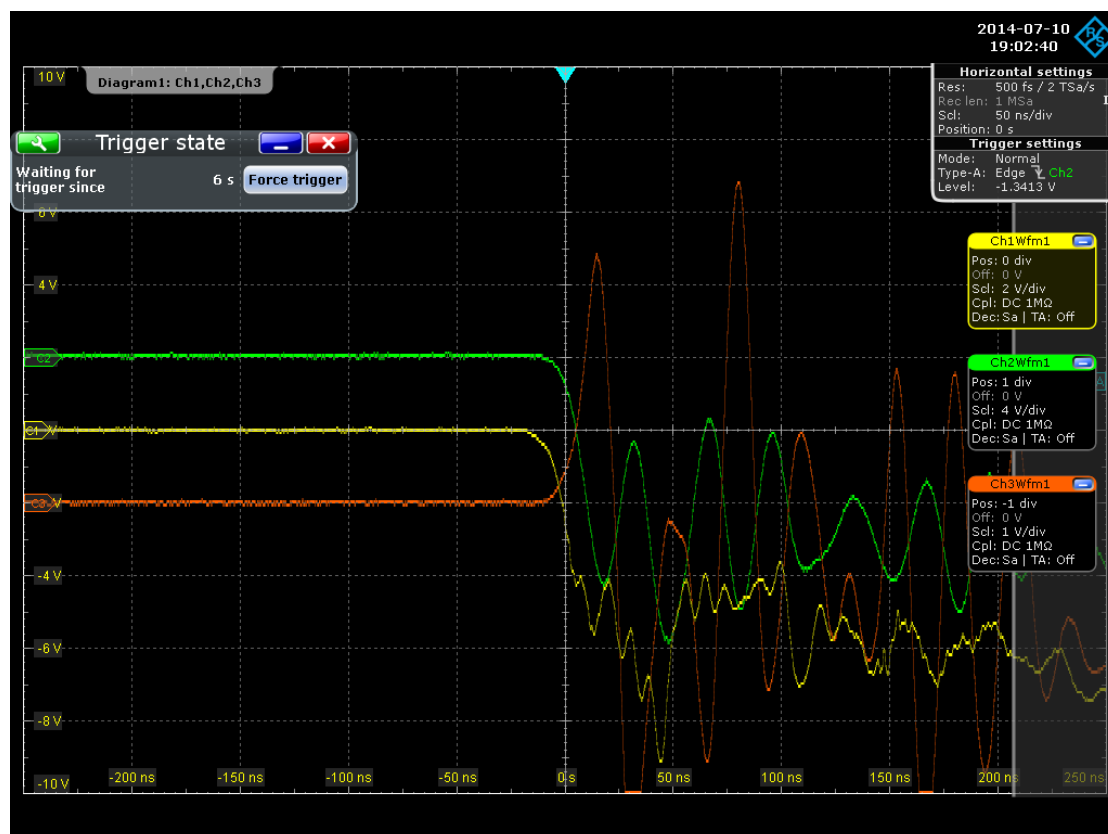
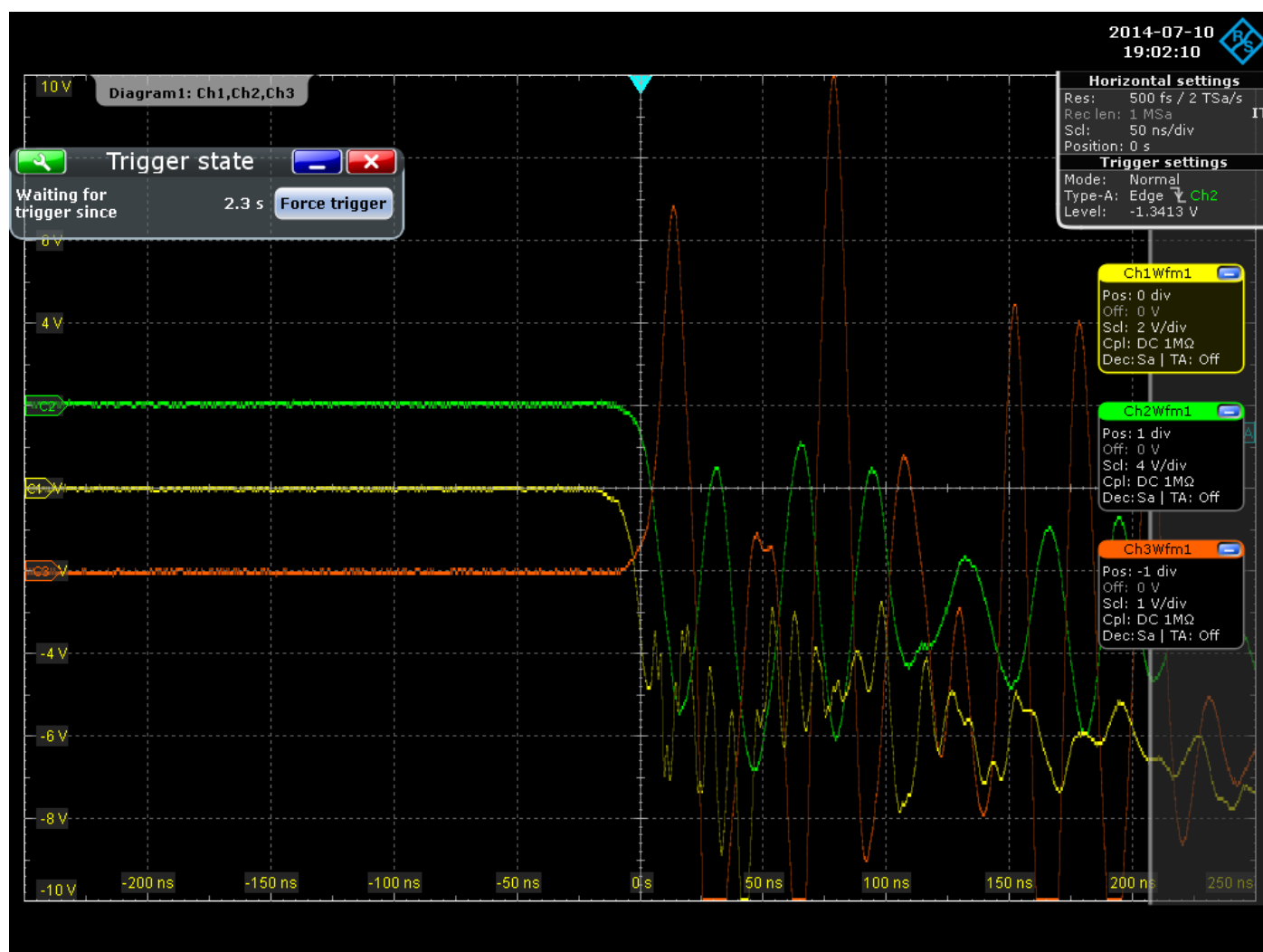
End of config_b, measurement4

Config_b, measurement 5:



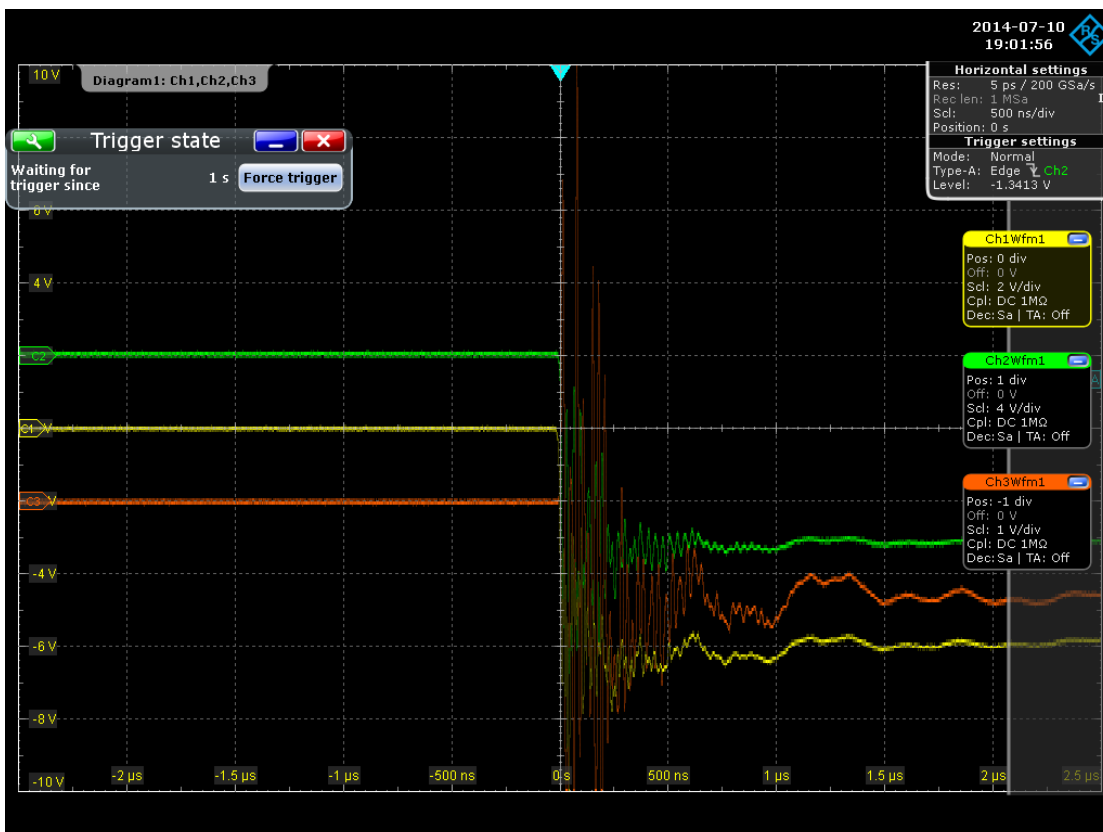
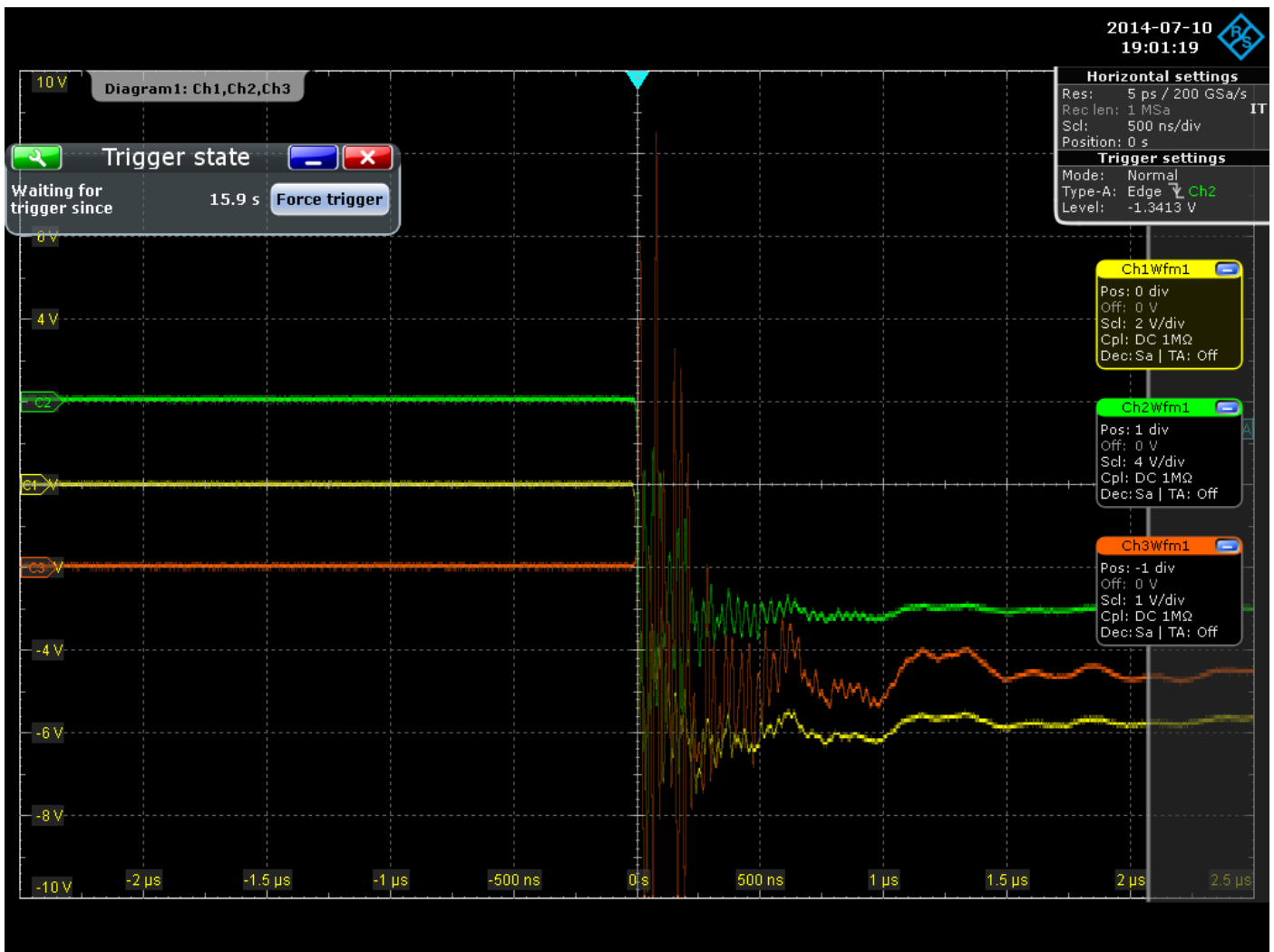
End of config_b, measurement5

Config_b, further signal-development (50 ns/div):



End of config_b, further signal-development(50 ns/div)

Config_b, further signal-development (500 ns/div):



End of config_b, further signal-development(500 ns/div)