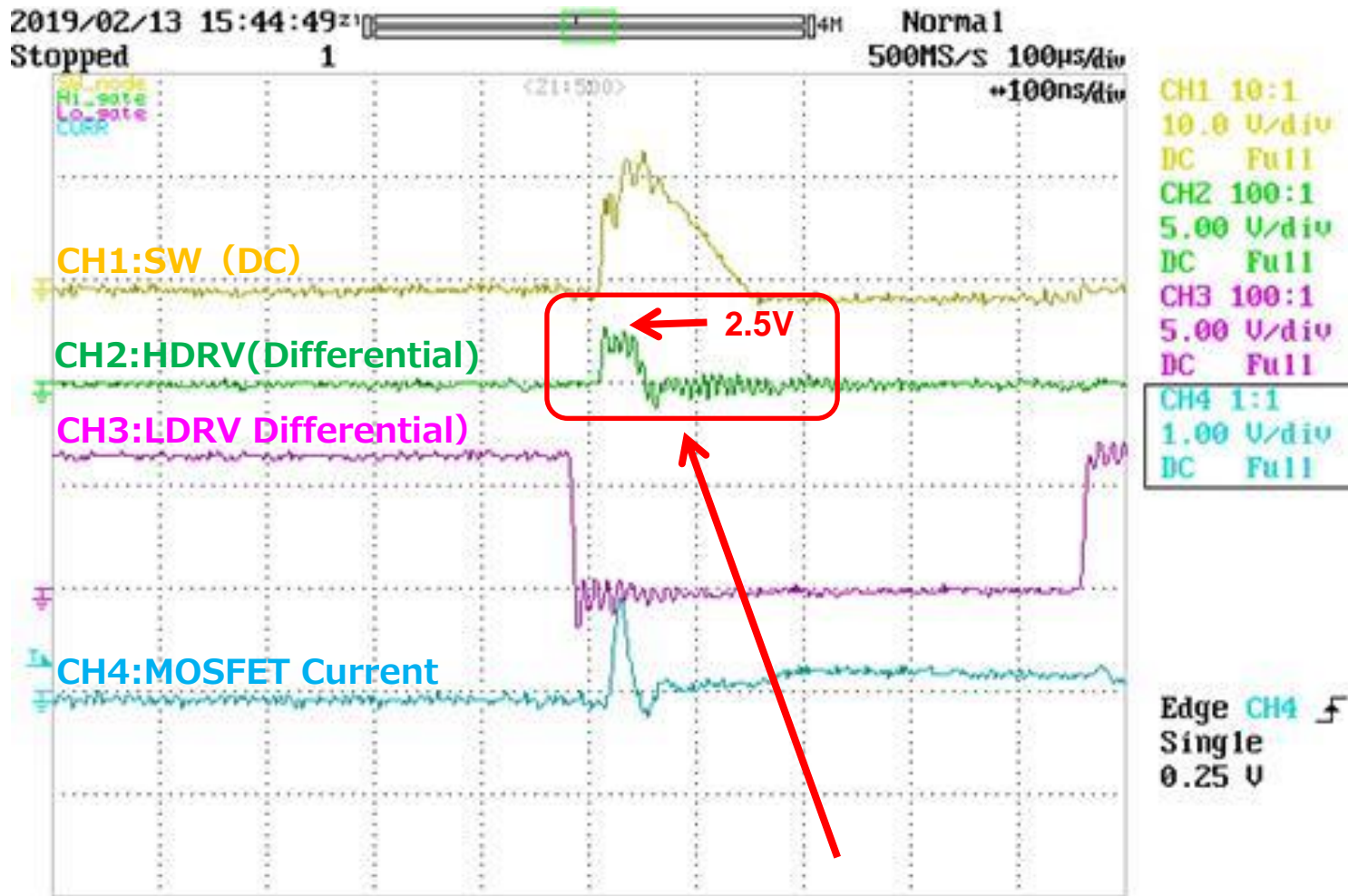


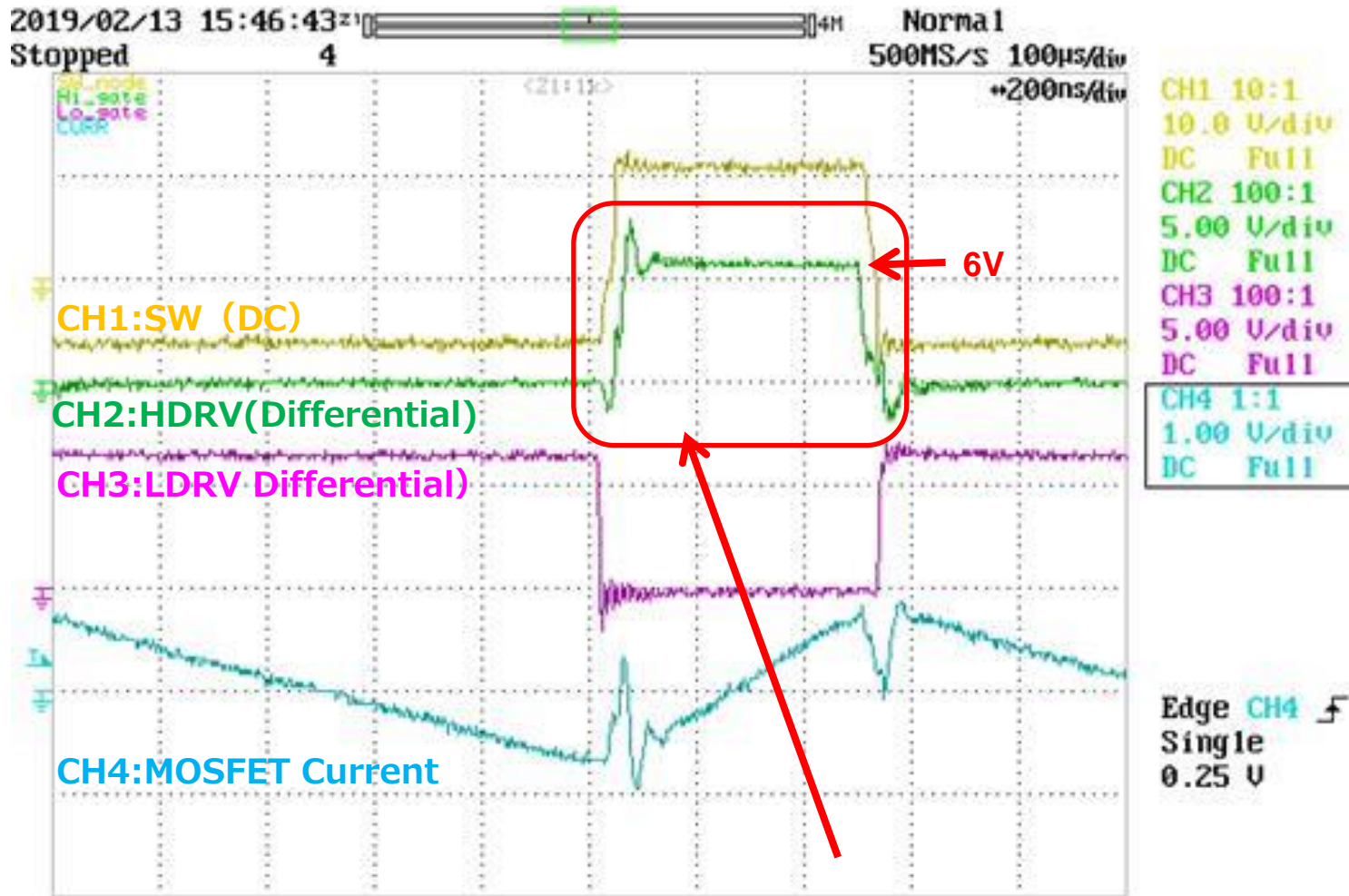
1. TPS40304 Expanded waveform ROC=4.7kΩ temperature 25°C、Before the soft start



CH1:SW (DC)
CH2:HDRV
(Differential)
CH3:LDRV
(Differential)
CH4:MOSFET
Current

This occurs only before the soft start of the output voltage.
Why is the gate voltage operating at 2.5V?

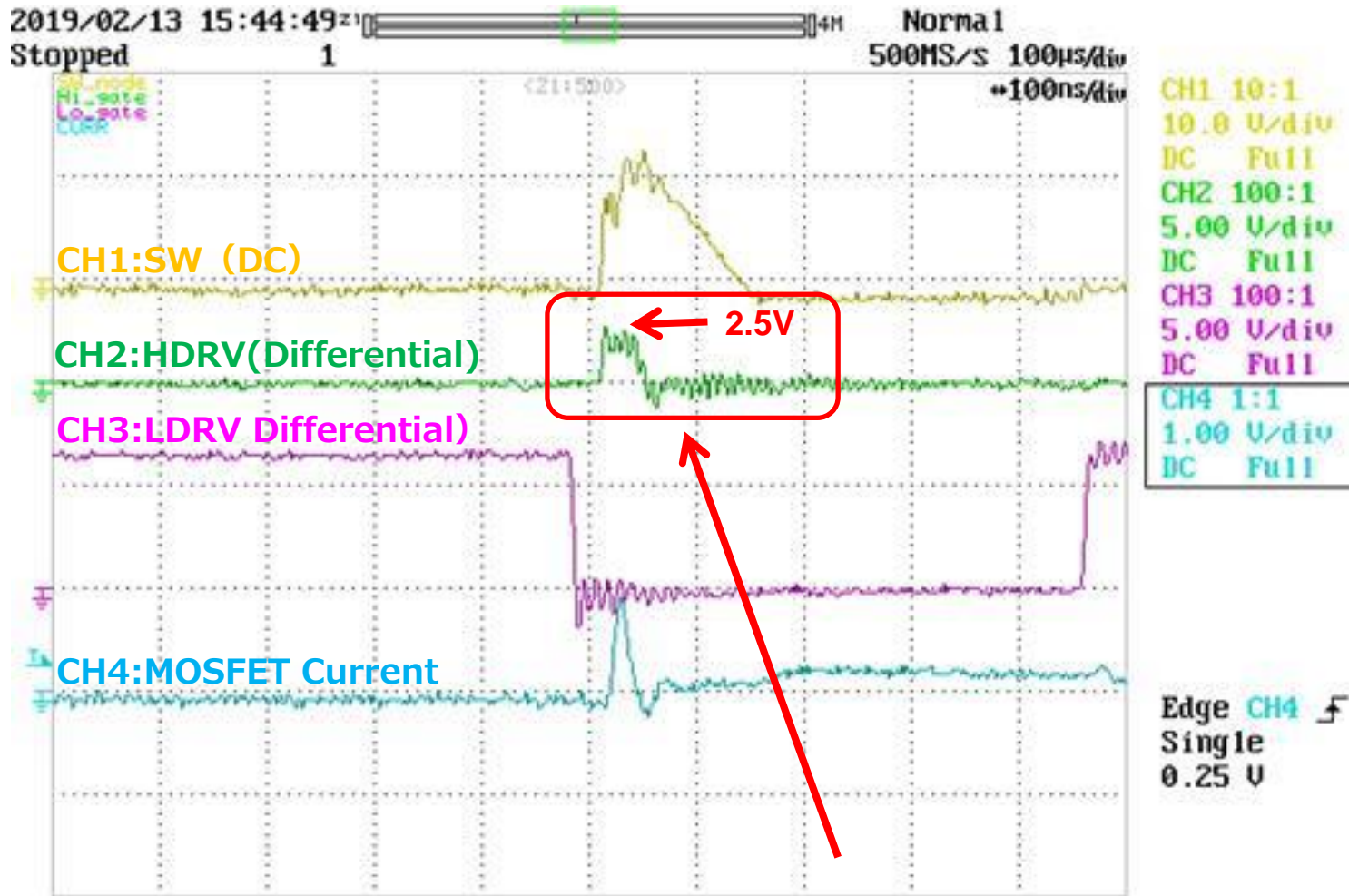
1. TPS40304 Expanded waveform ROC=4.7kΩ temperature 25°C、 After the soft start



CH1:SW (DC)
CH2:HDRV
(Differential)
CH3:LDRV
(Differential)
CH4:MOSFET
Current

After the output voltage rises with soft start, the gate voltage outputs 6V.

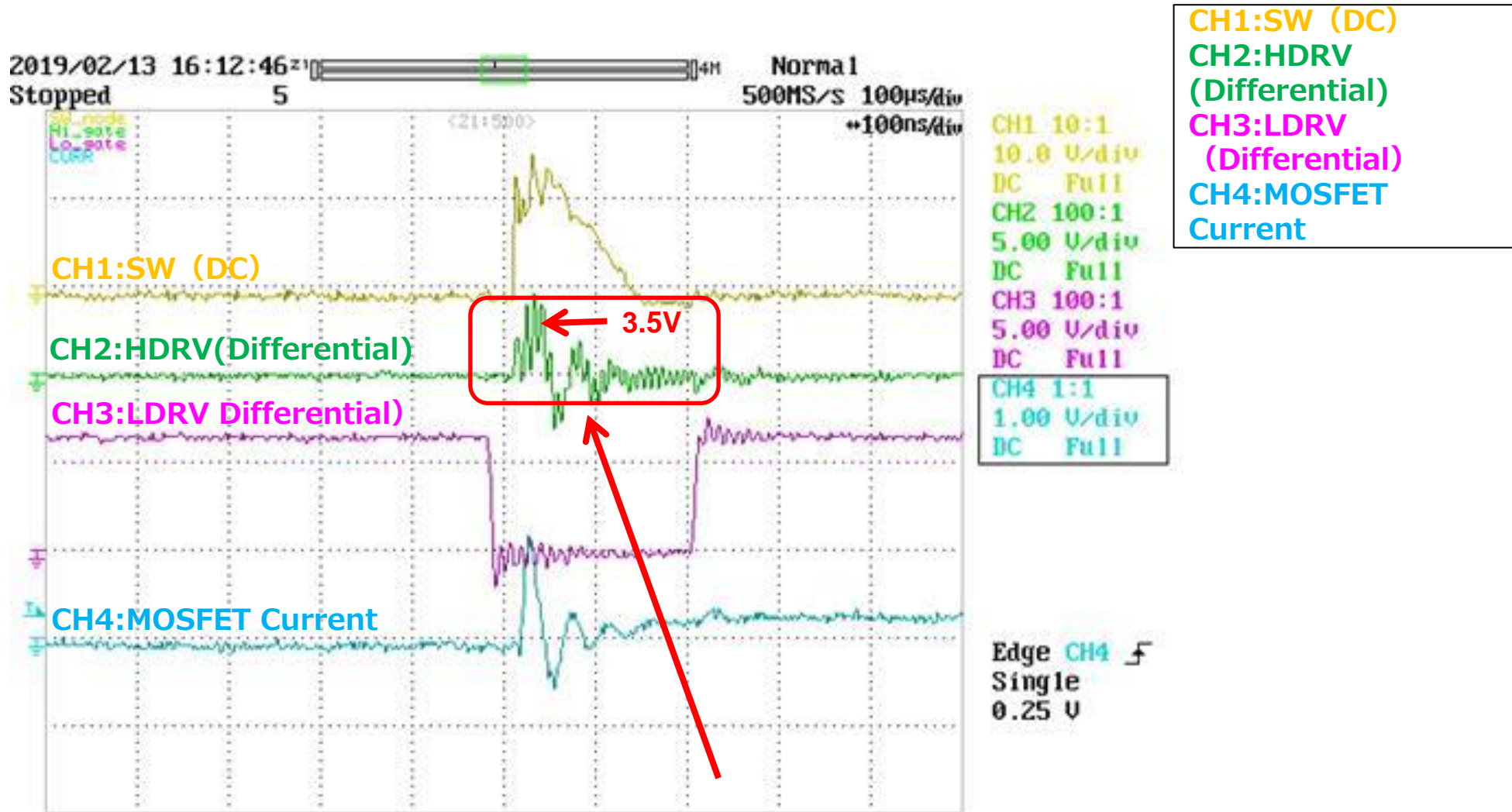
2. TPS40304 Expanded waveform ROC=4.7kΩ temperature 25°C、Before the soft start



CH1:SW (DC)
CH2:HDRV
(Differential)
CH3:LDRV
(Differential)
CH4:MOSFET
Current

This occurs only before the soft start of the output voltage.
Why is the gate voltage operating at 2.5V?

2. TPS40304 Expanded waveform ROC=4.7k Ω temperature 25 $^{\circ}$ C、 Before the soft start、 change to 0 Ω



This occurs only before the soft start of the output voltage.
Why is the gate voltage operating at 3.5V?