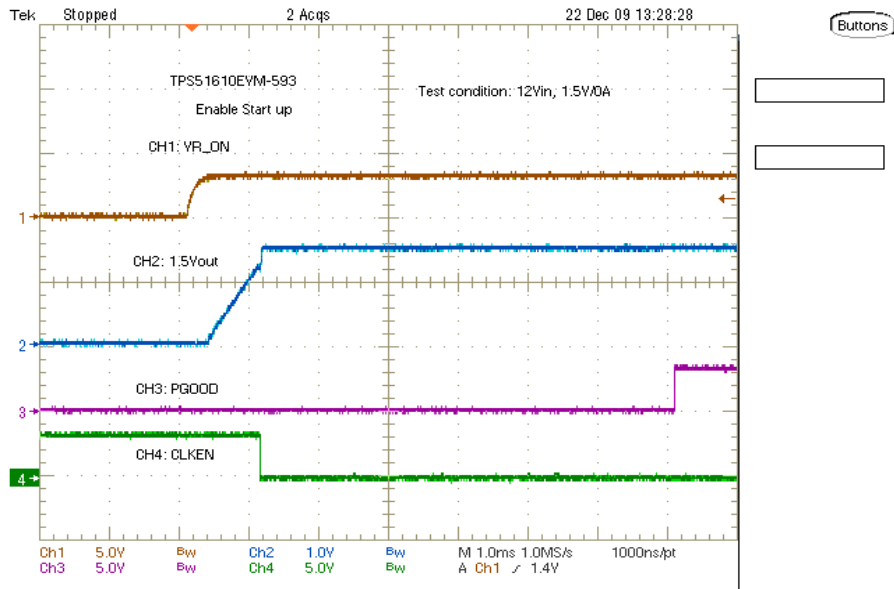
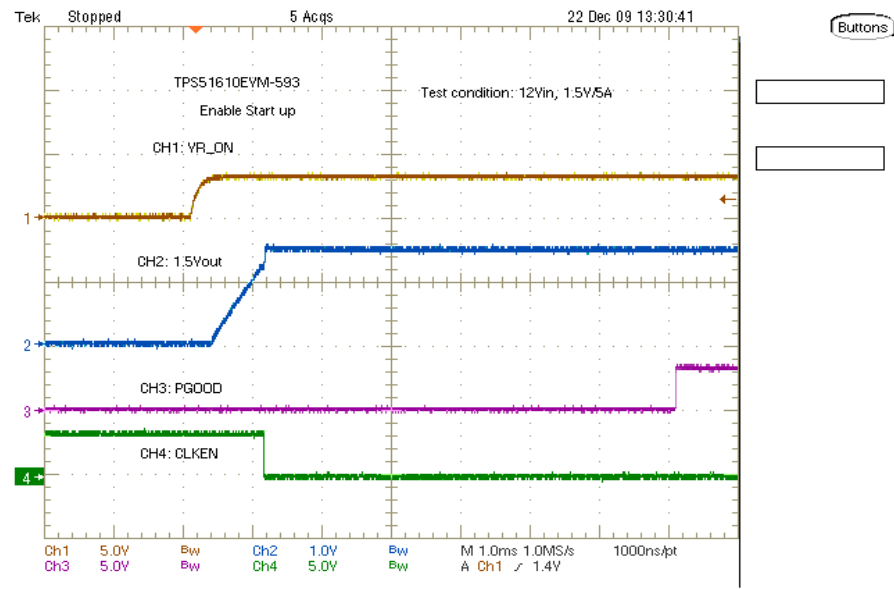


1. Enable Start Up

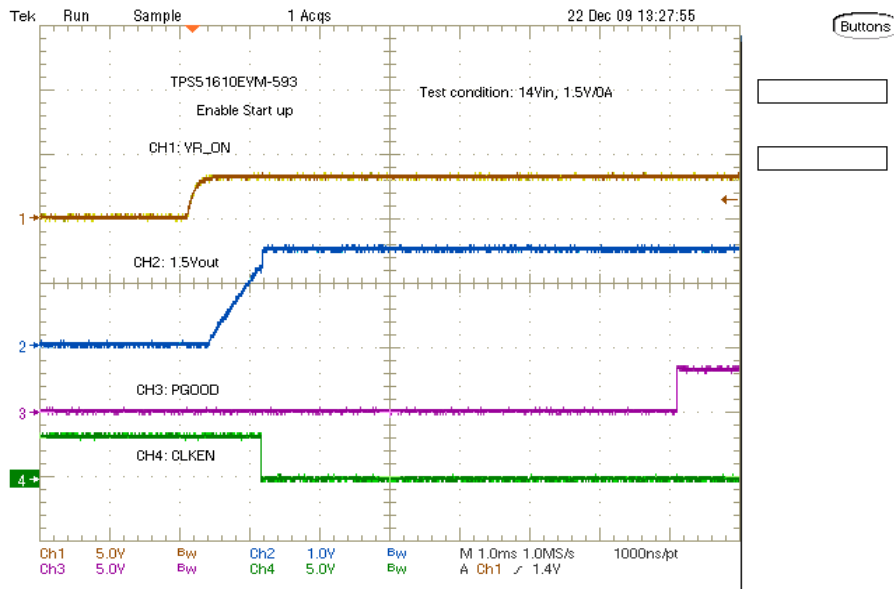
Test condition: 12Vin, 1.5V/0A



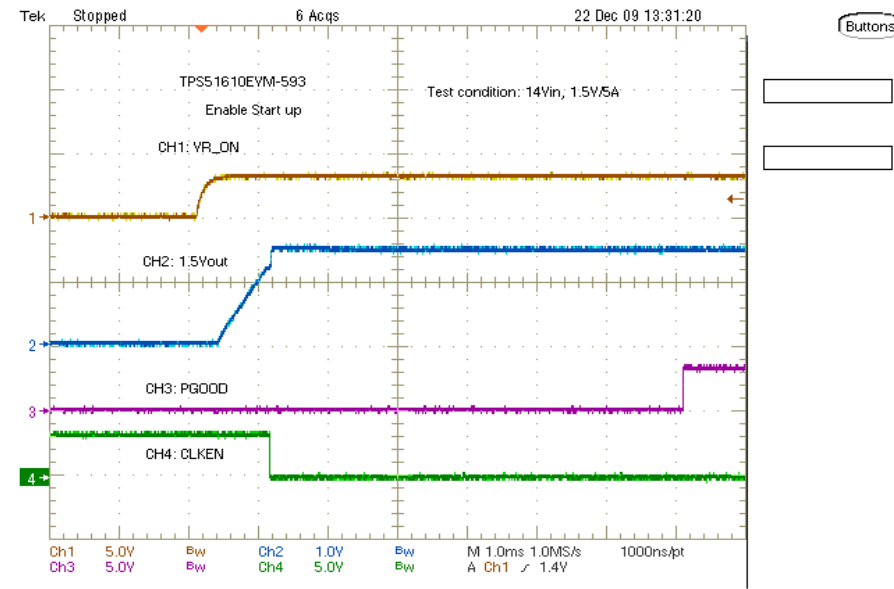
Test condition: 12Vin, 1.5V/5A



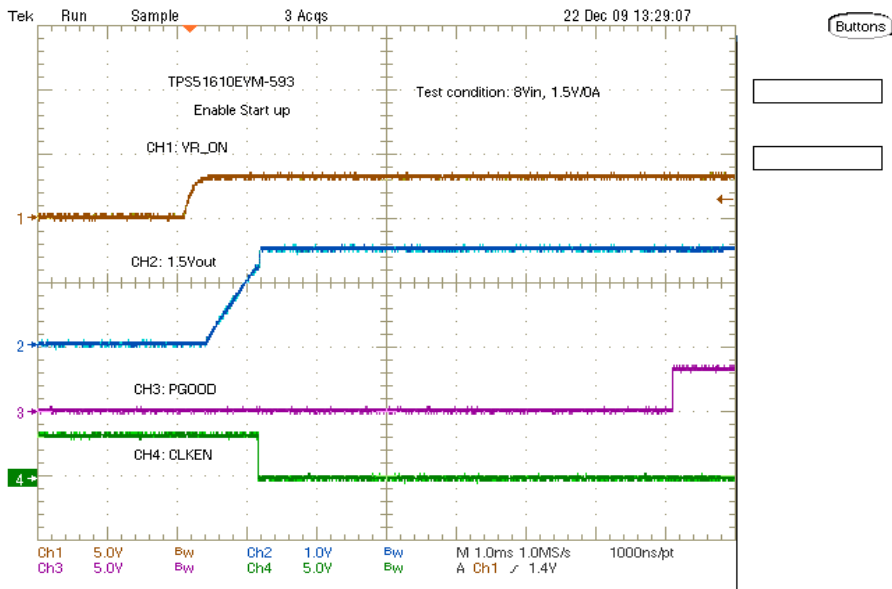
Test condition: 14Vin, 1.5V/0A



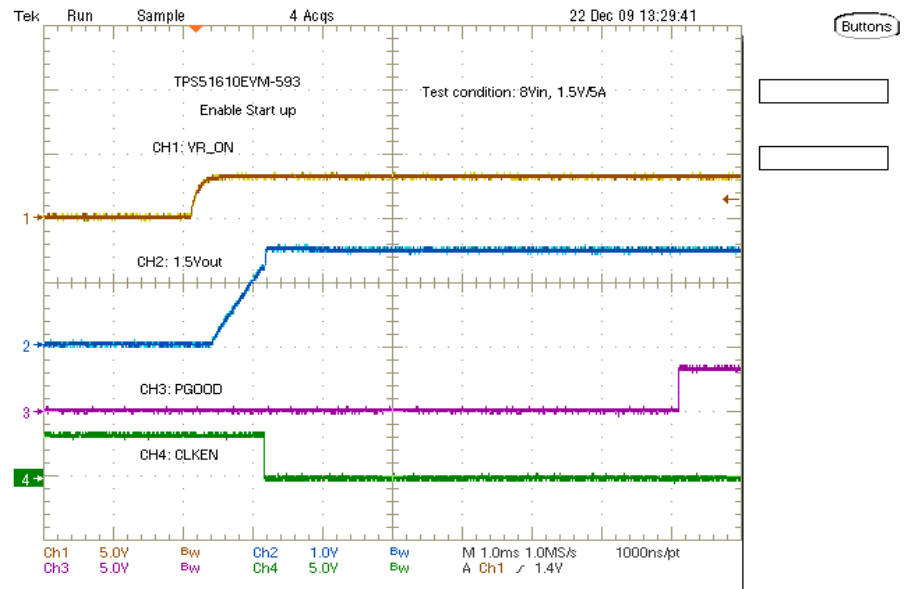
Test condition: 14Vin, 1.5V/5A



**Test condition: 8Vin, 1.5V/0A**

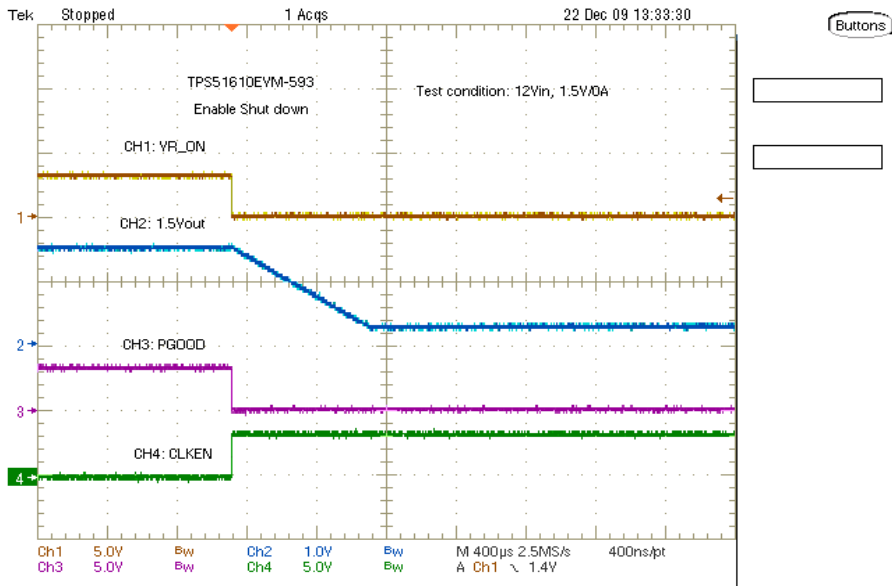


**Test condition: 8Vin, 1.5V/5A**

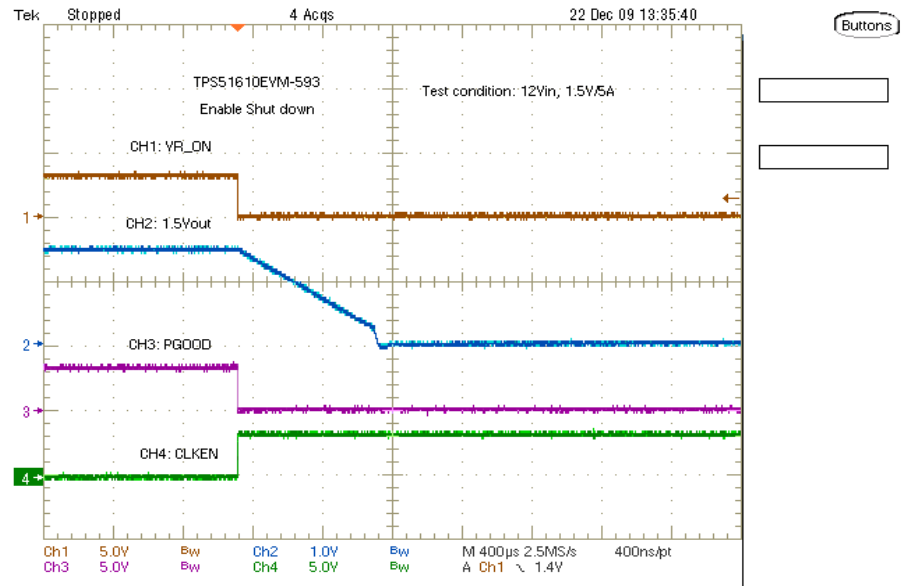


**2. Enable Shutdown**

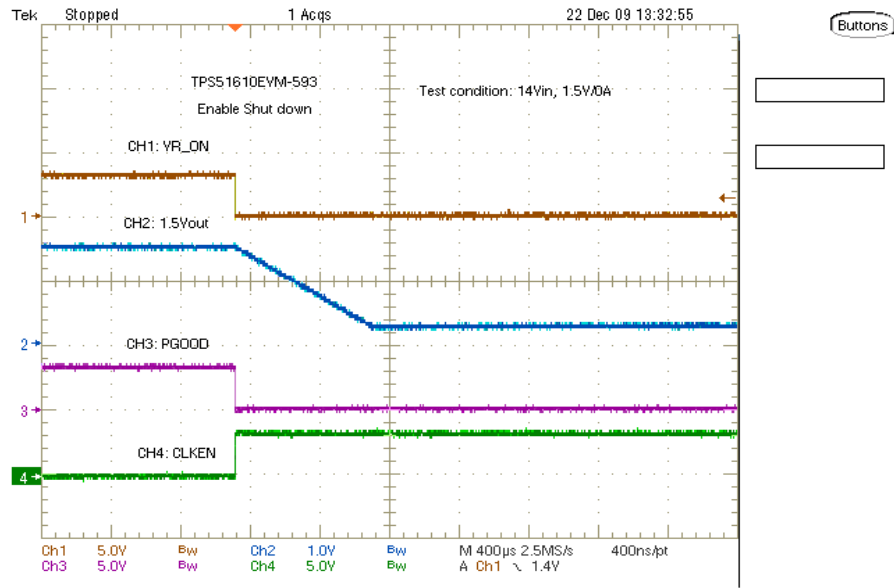
**Test condition: 12Vin, 1.5V/0A**



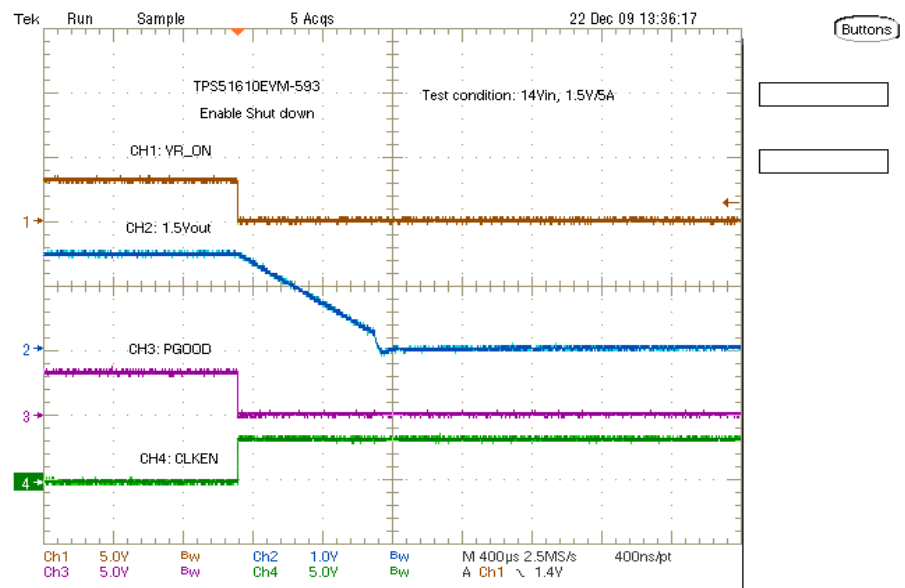
**Test condition: 12Vin, 1.5V/5A**



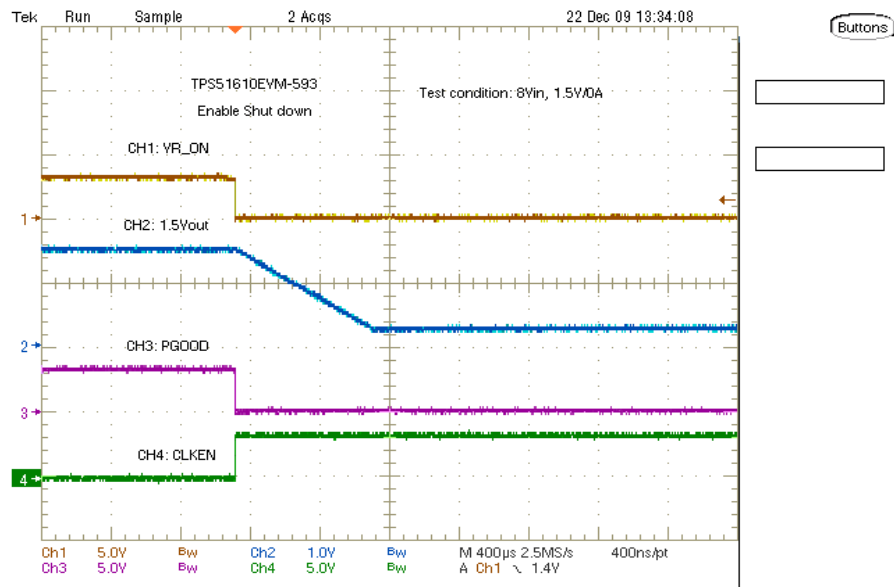
### Test condition: 14Vin, 1.5V/0A



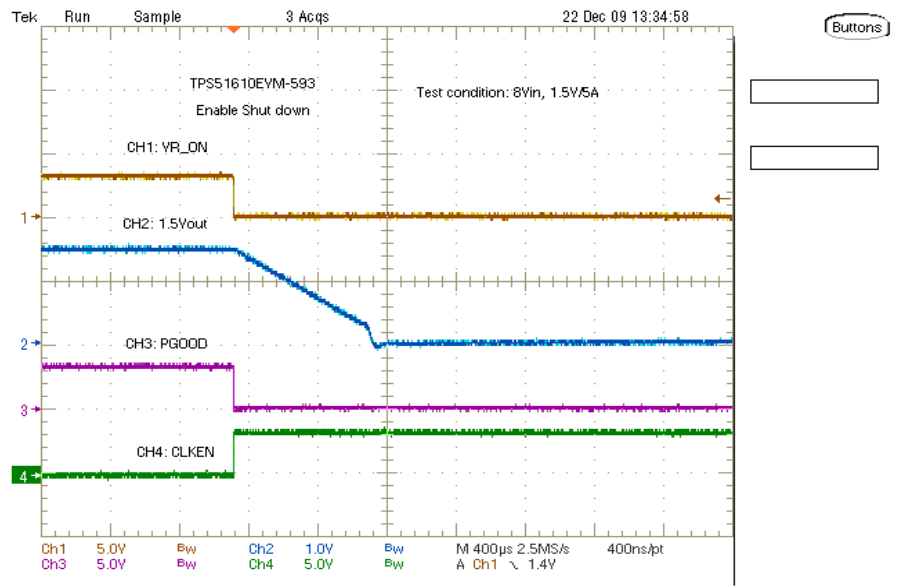
### Test condition: 14Vin, 1.5V/5A



### Test condition: 8Vin, 1.5V/0A

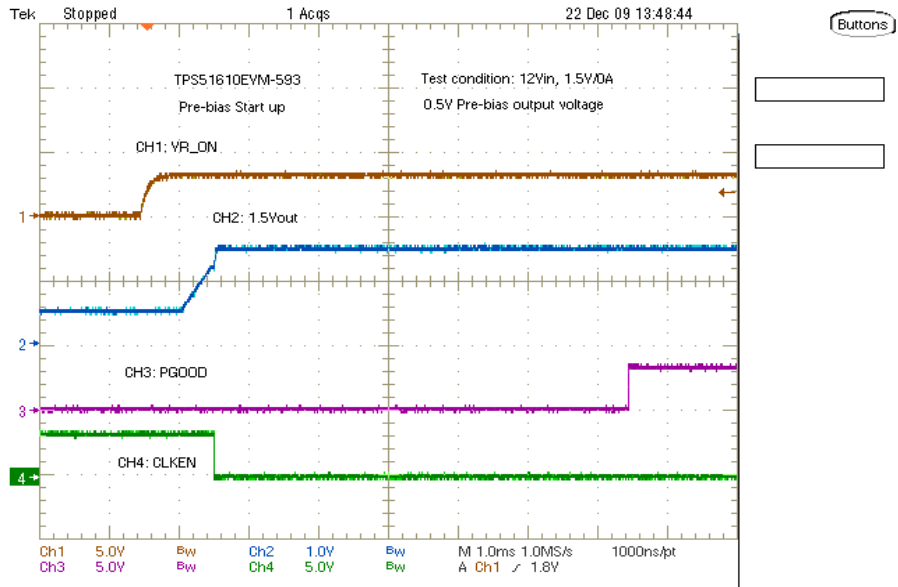


### Test condition: 8Vin, 1.5V/5A

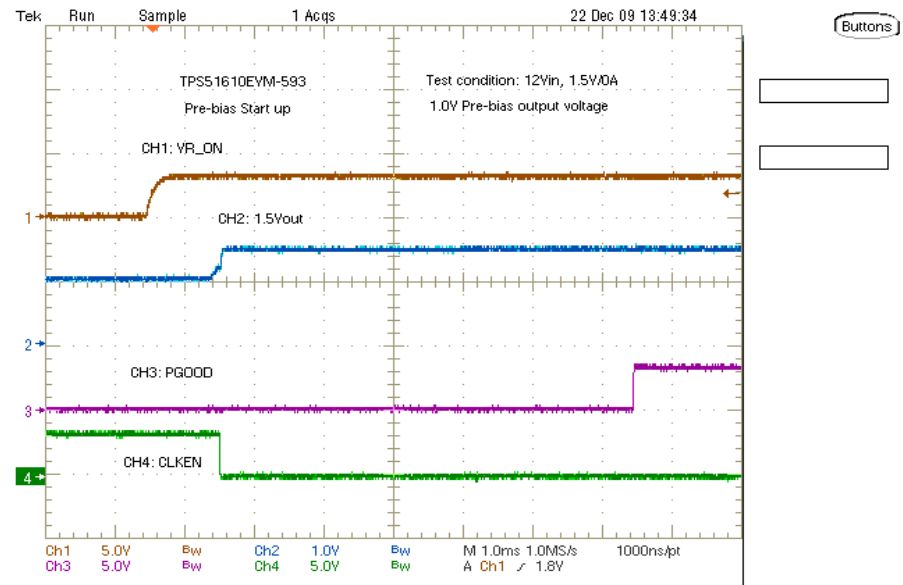


### 3. Pre-bias start up

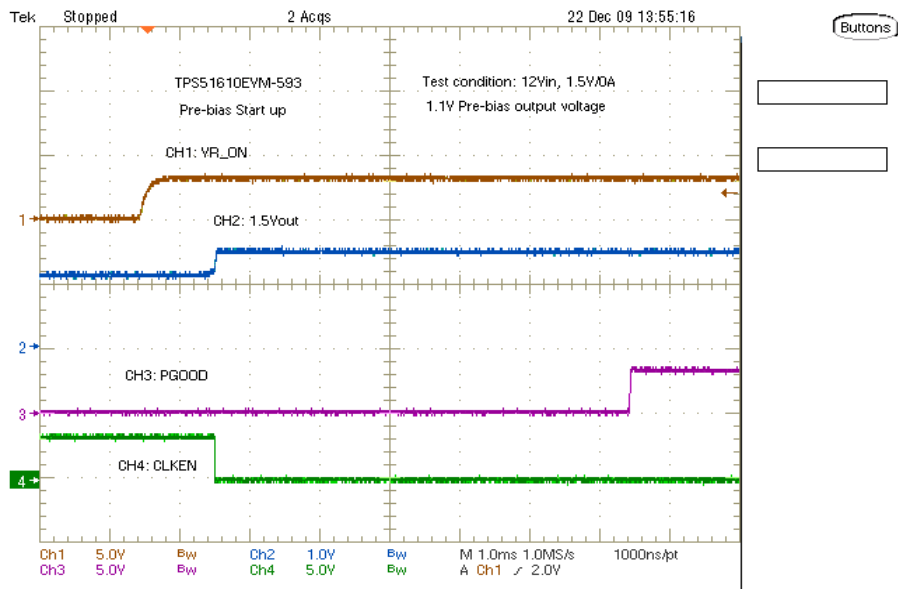
Test condition: 12Vin, 1.5V/0A with pre-bias 0.5V



Test condition: 12Vin, 1.5V/0A with pre-bias 1.0V



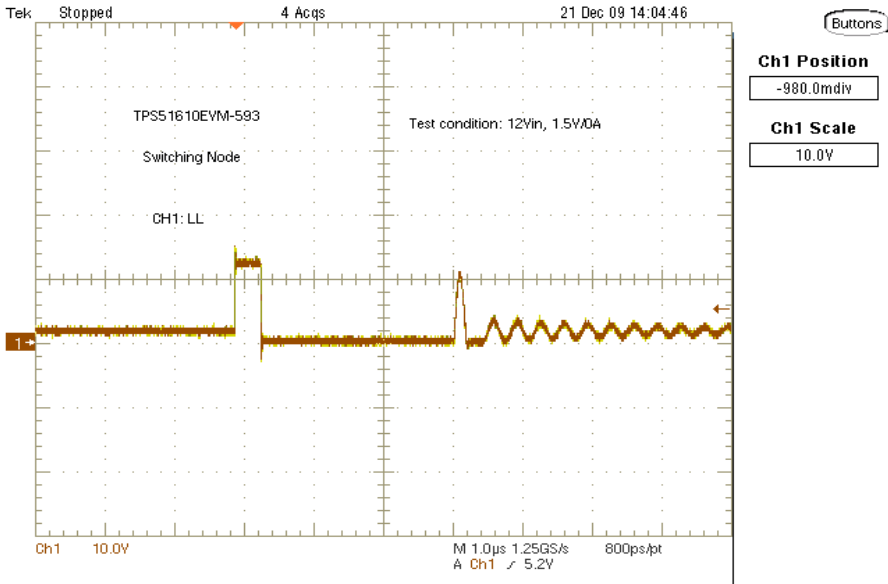
Test condition: 12Vin, 1.5V/0A with pre-bias 1.1V



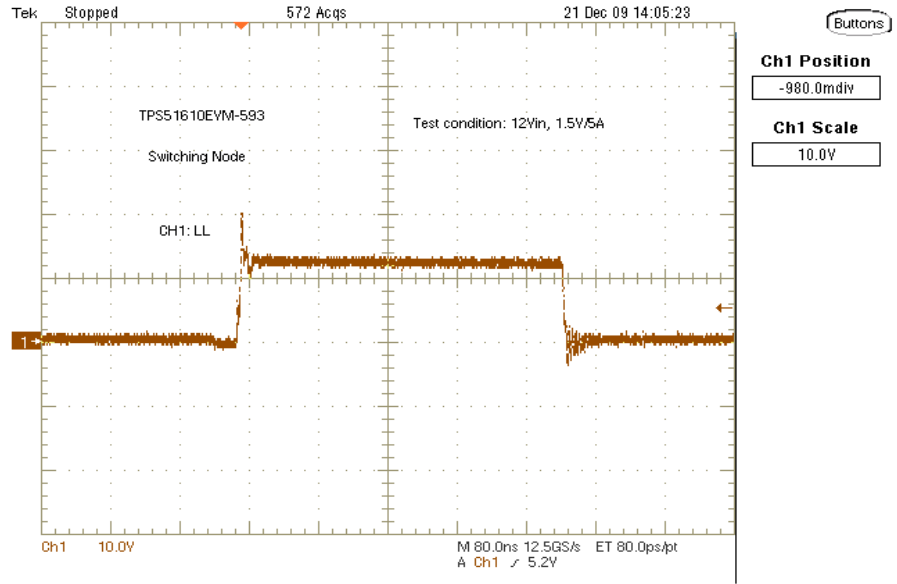
Note: The unit could not start up if the pre-bias voltage is higher than 1.1V

#### 4. Switching node waveform

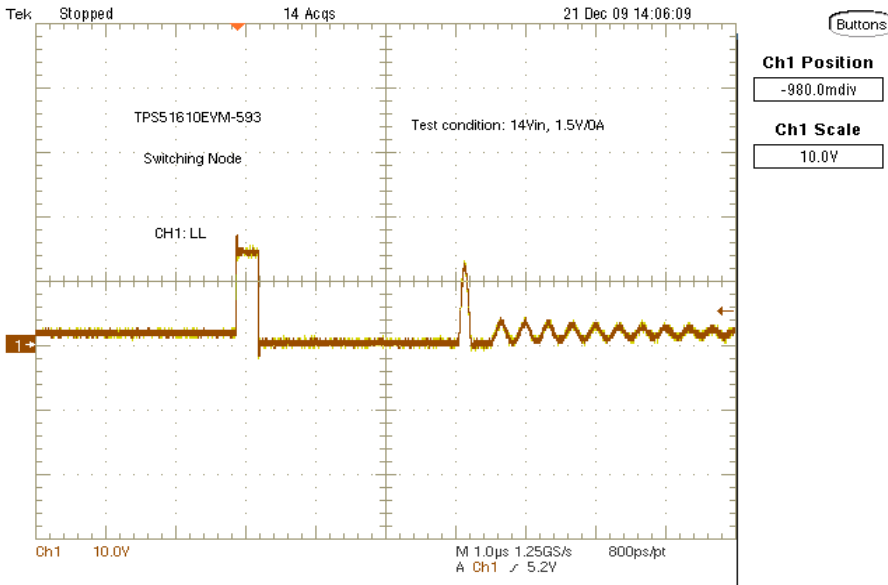
Test condition: 12Vin, 1.5V/0A



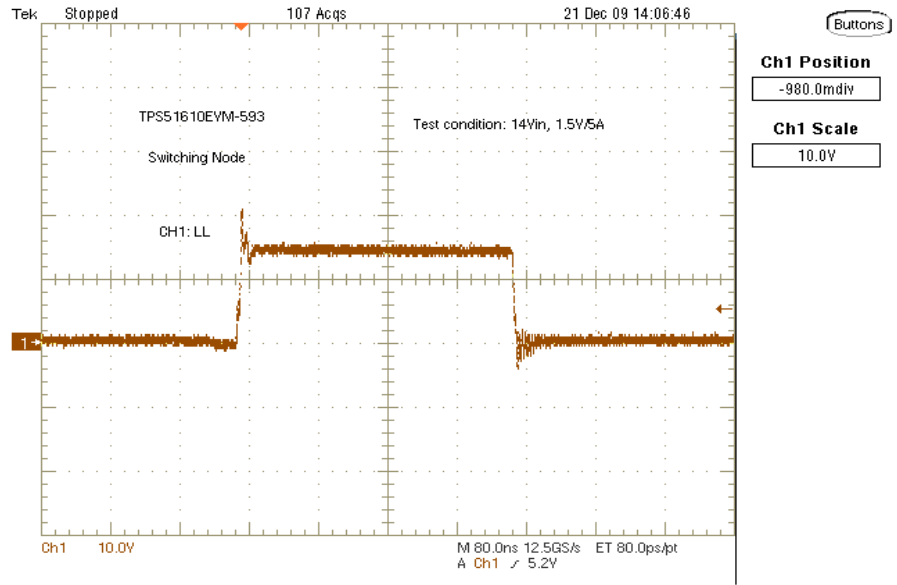
Test condition: 12Vin, 1.5V/5A



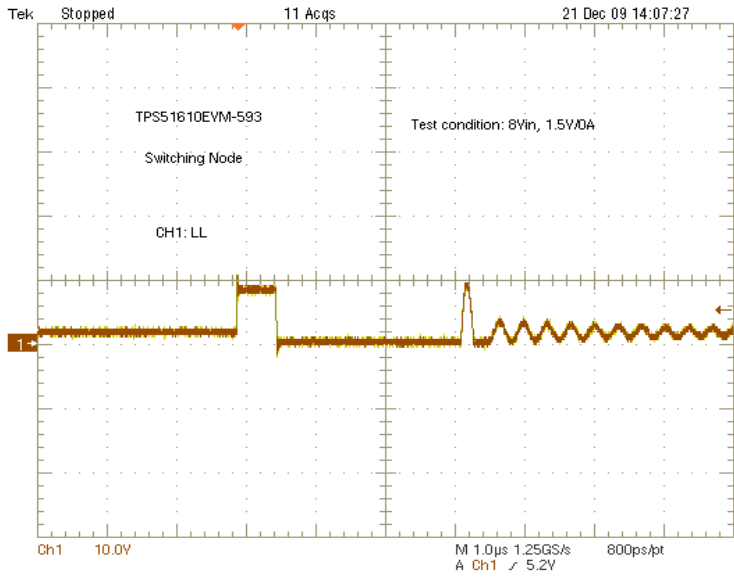
Test condition: 14Vin, 1.5V/0A



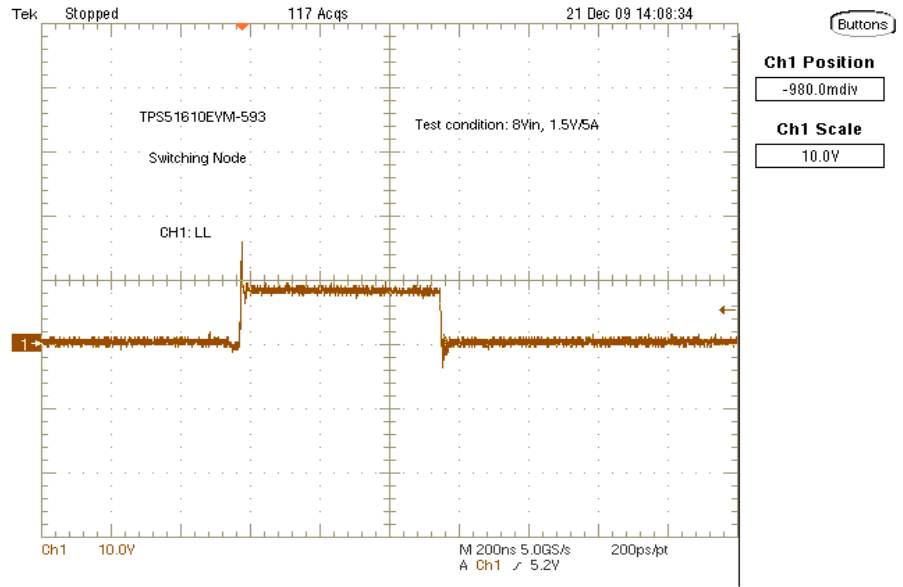
Test condition: 14Vin, 1.5V/5A



### Test condition: 8Vin, 1.5V/0A

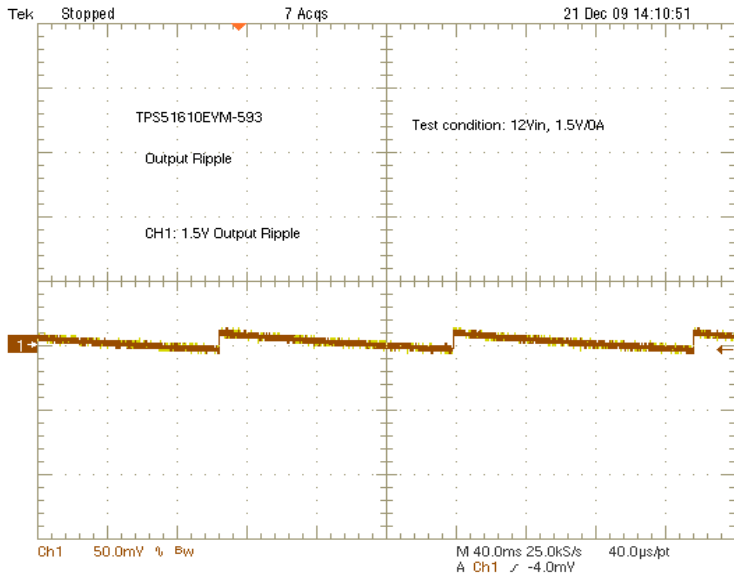


### Test condition: 8Vin, 1.5V/5A

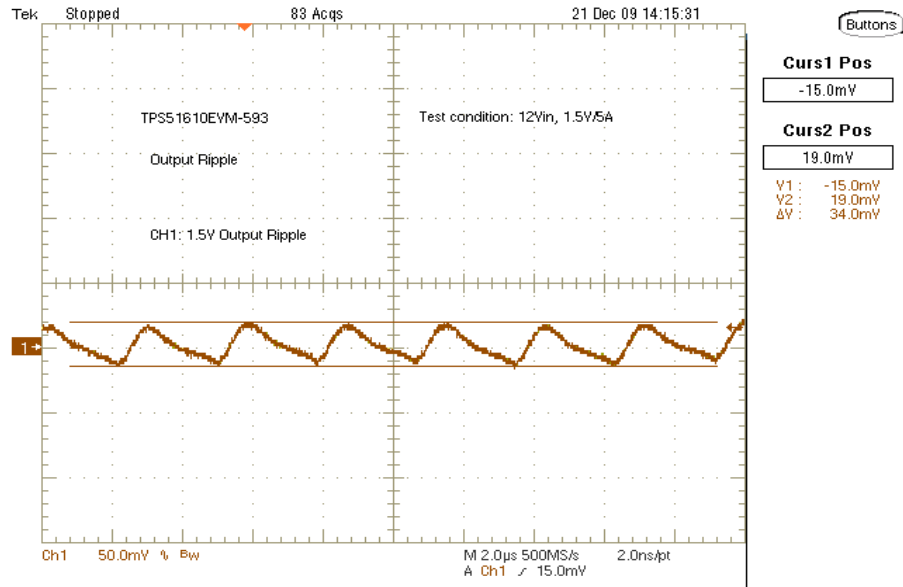


### 5. Output Ripple

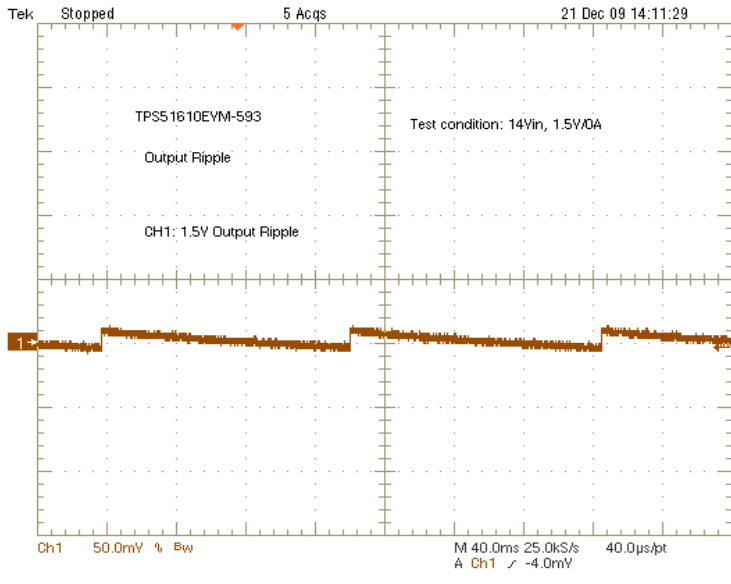
#### Test condition: 12Vin, 1.5V/0A



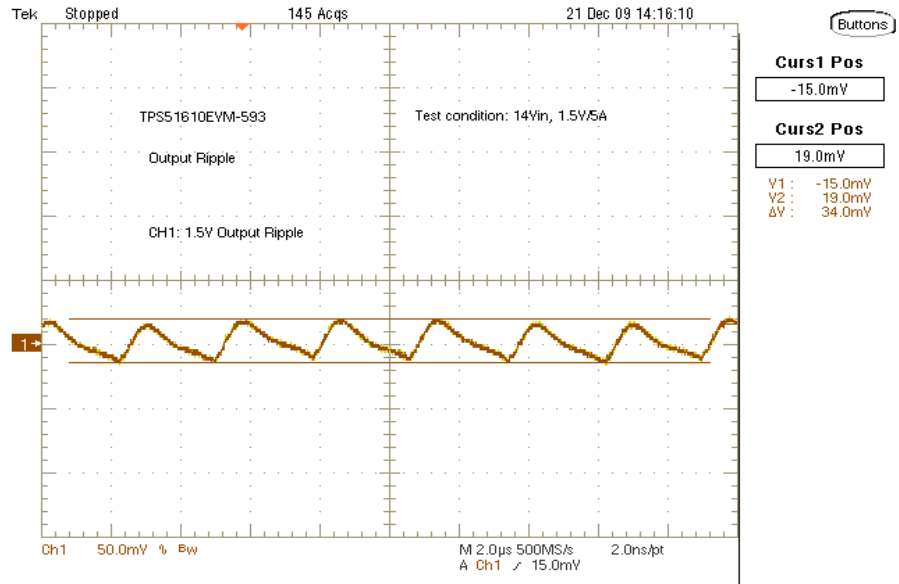
#### Test condition: 12Vin, 1.5V/5A



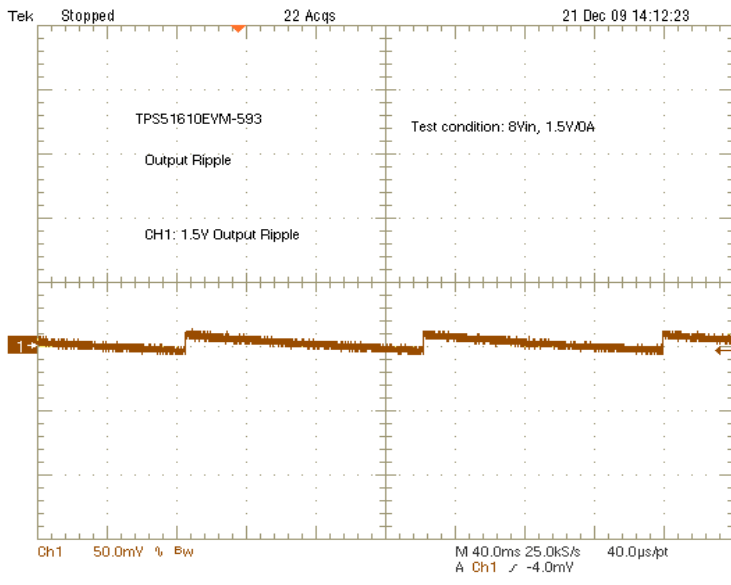
### Test condition: 14Vin, 1.5V/0A



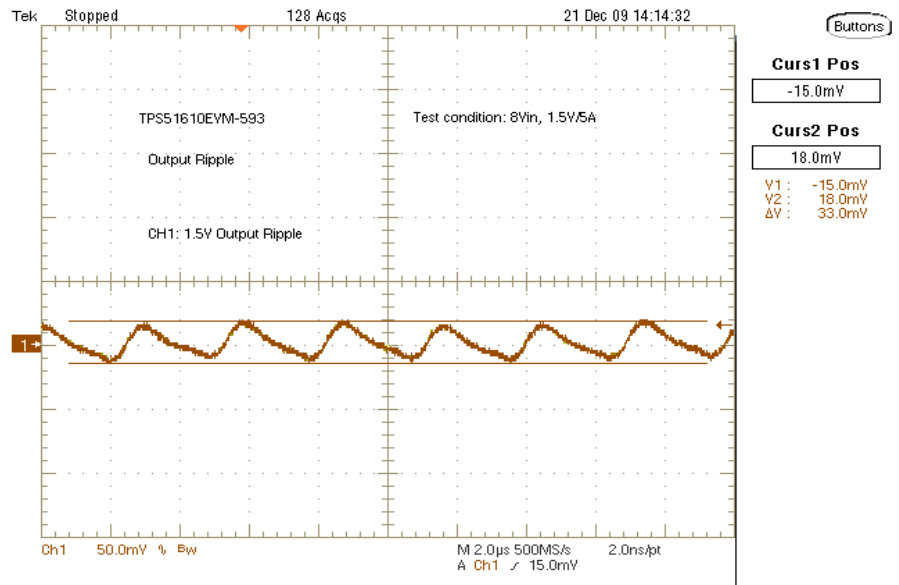
### Test condition: 14Vin, 1.5V/5A



### Test condition: 8Vin, 1.5V/0A

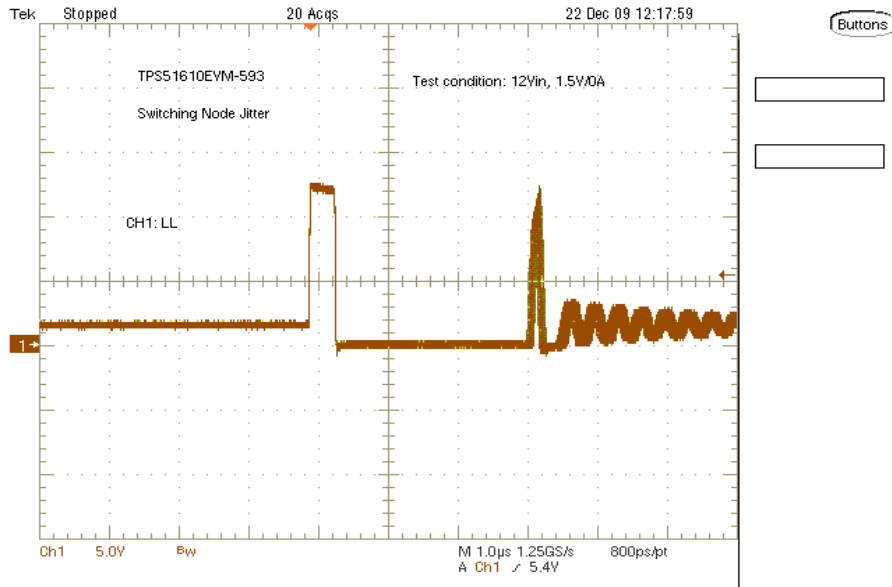


### Test condition: 8Vin, 1.5V/5A

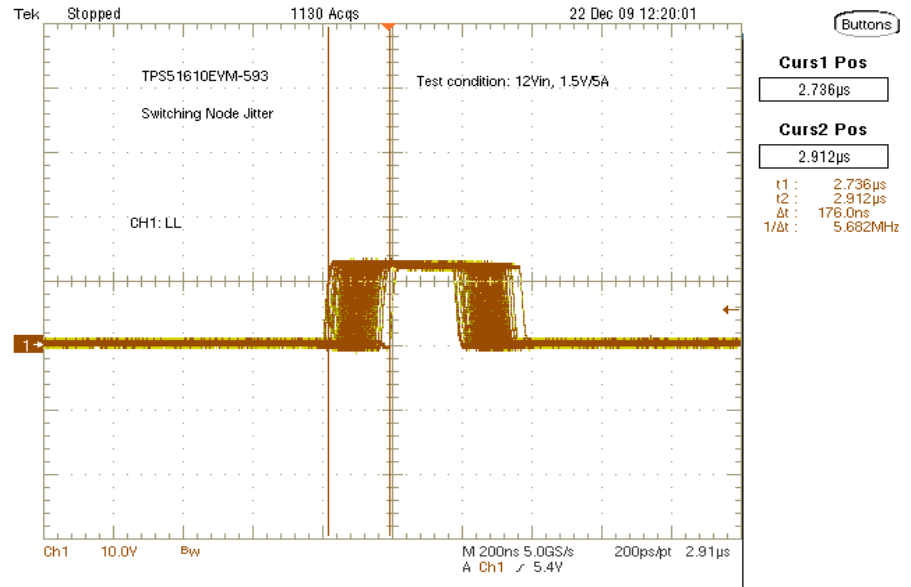


## 6. Switching Node Jitter

Test condition: 12Vin, 1.5V/0A

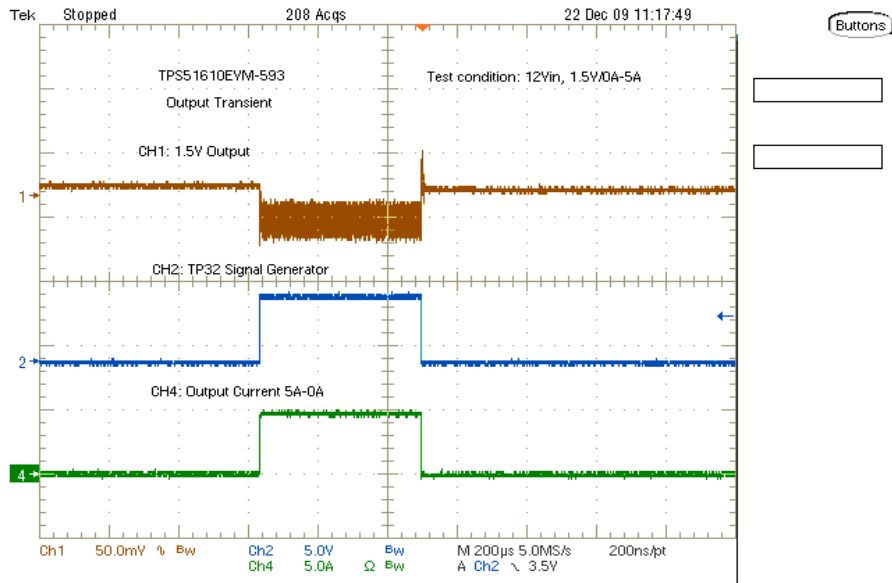


Test condition: 12Vin, 1.5V/5A

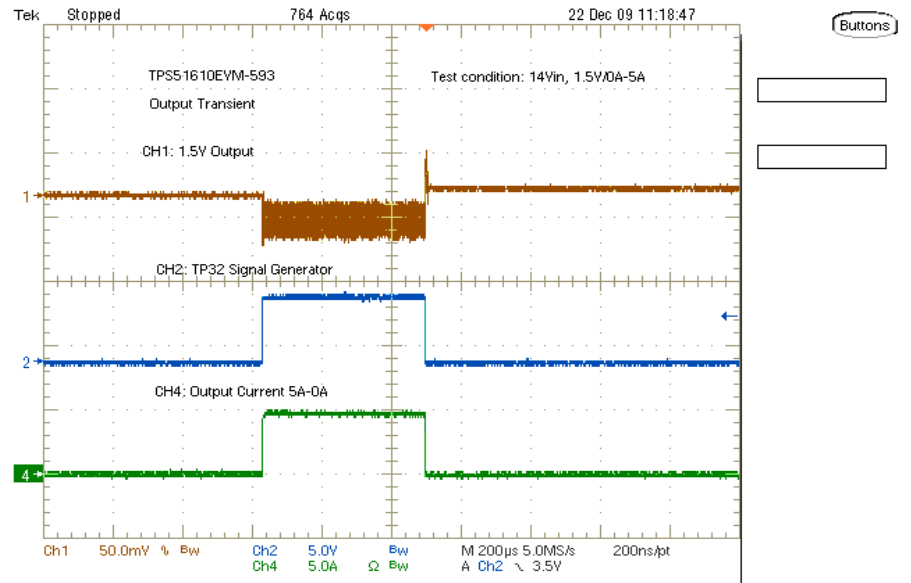


## 7. Transient Response

Test condition: 12Vin, 1.5V/0A-5A

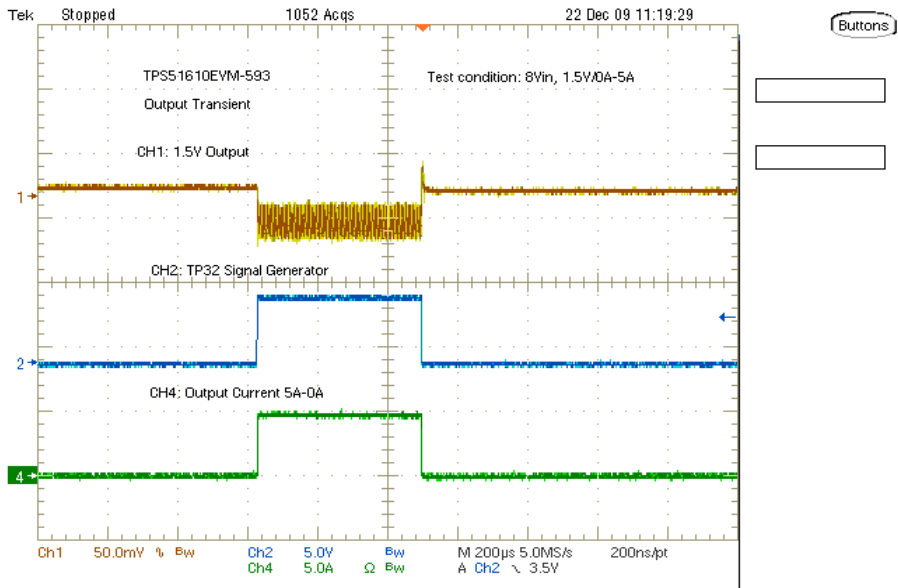


Test condition: 14Vin, 1.5V/0A-5A





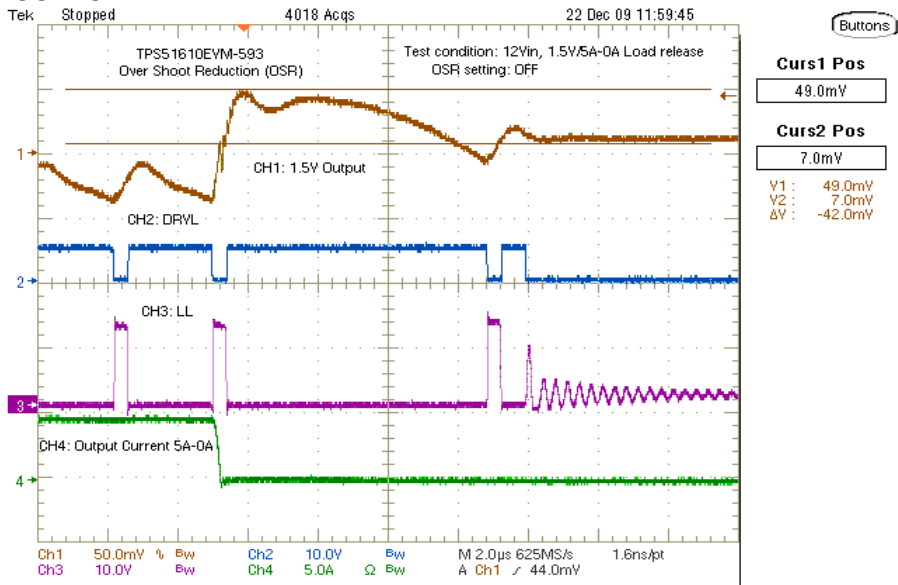
**Test condition: 8Vin, 1.5V/0A-5A**



**8. Over Shoot Reduction(OSR)**

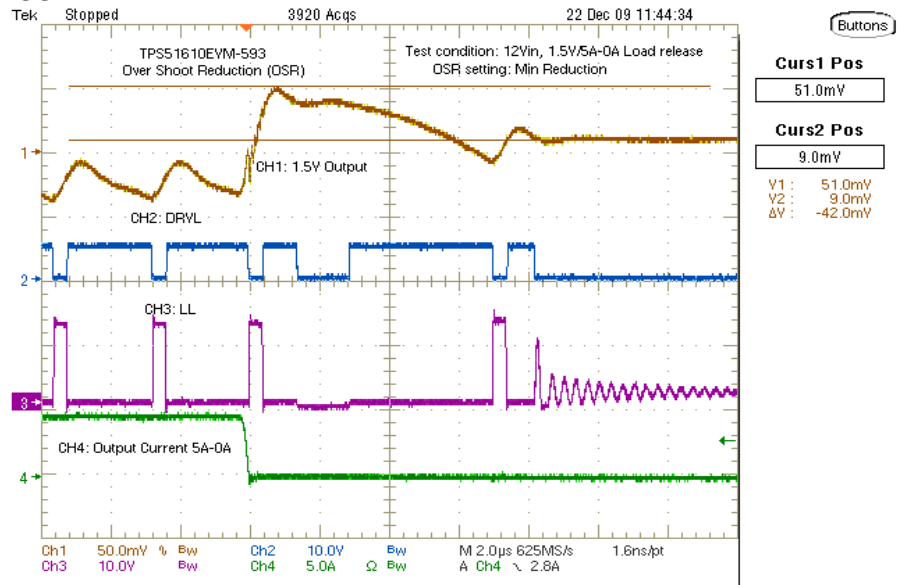
**Test condition: 12Vin, 1.5V/0A-5A on board dynamic**

**OSR=OFF**

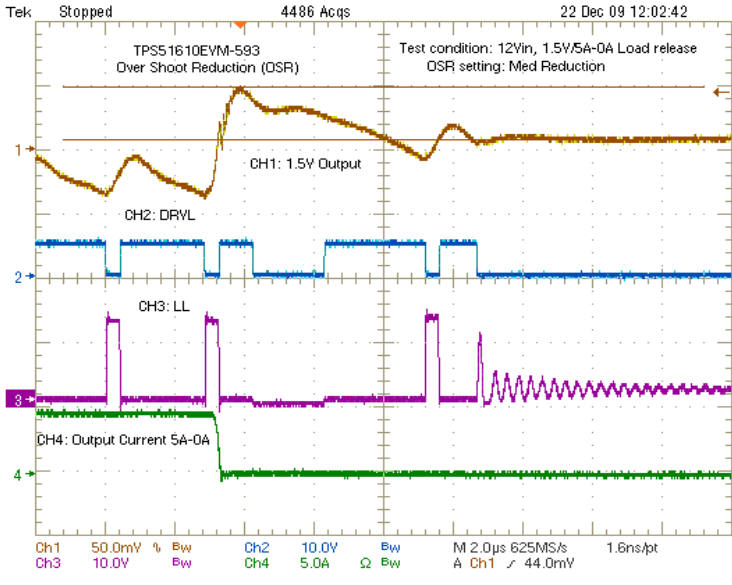


**Test condition: 12Vin, 1.5V/0A-5A on board dynamic**

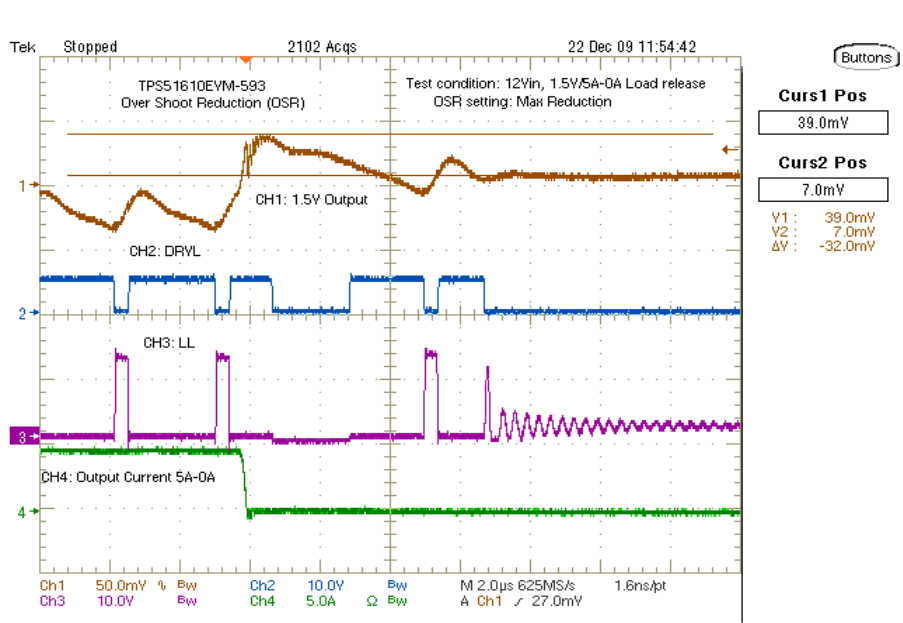
**OSR=MIN**



**Test condition: 12Vin, 1.5V/0A-5A on board dynamic  
OSR=MED**

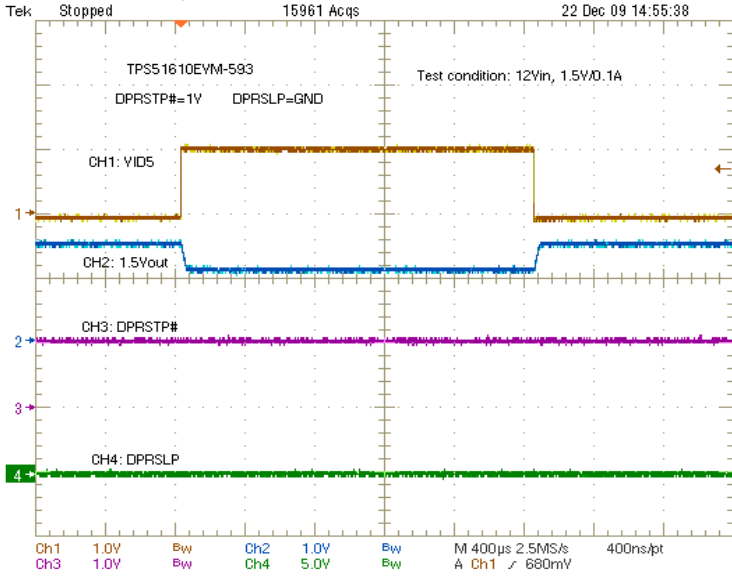


**Test condition: 12Vin, 1.5V/0A-5A on board dynamic  
OSR=MAX**

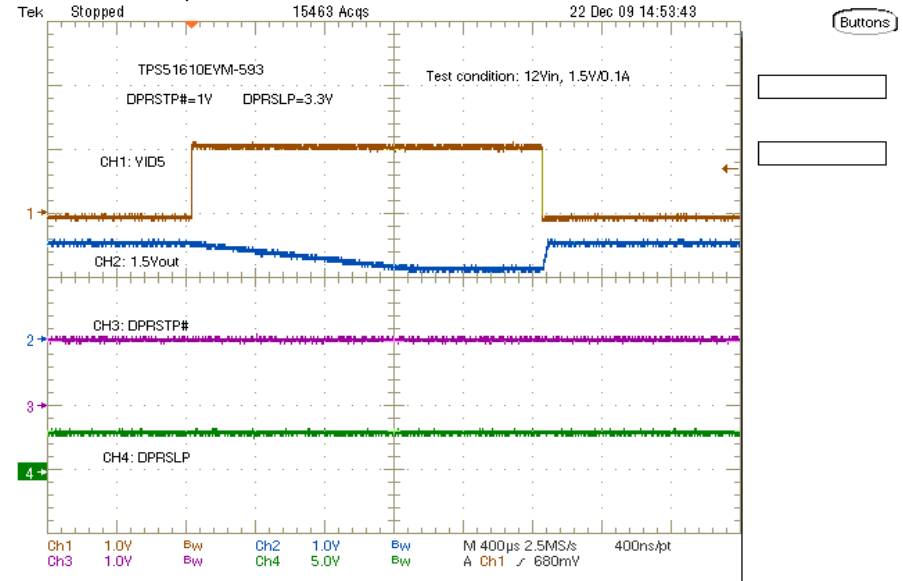


**9. Deep Sleep Mode and Deep Stop Mode**

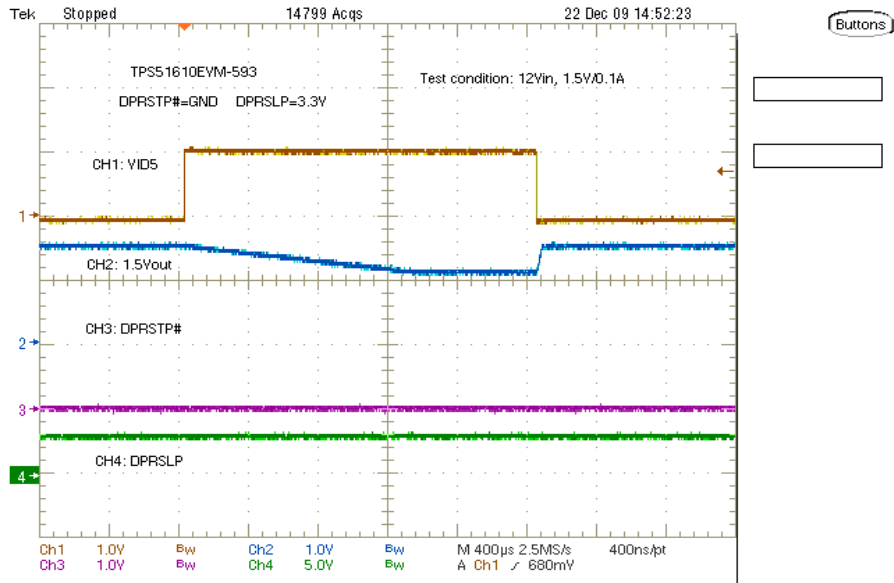
**Test condition: 12Vin, 1.5V/0A VID5 change  
DPRSTP#=1V, DPRSLP=GND**



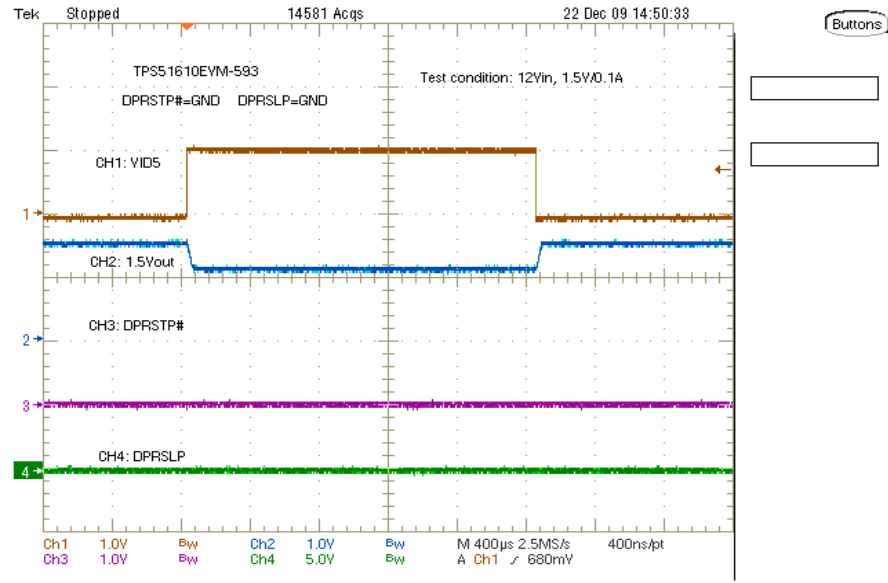
**Test condition: 12Vin, 1.5V/0A VID5 change  
SLP=1V Enable SLP  
DPRSTP#=1V, DPRSLP=3.3V**



Test condition: 12Vin, 1.5V/0A VID5 change  
DPRSTP#=GND, DPRSLP=3.3V



Test condition: 12Vin, 1.5V/0A VID5 change  
DPRSTP#=GND, DPRSLP=GND



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DLP® Products	<a href="http://www.dlp.com">www.dlp.com</a>	Communications and Telecom	<a href="http://www.ti.com/communications">www.ti.com/communications</a>
DSP	<a href="http://dsp.ti.com">dsp.ti.com</a>	Computers and Peripherals	<a href="http://www.ti.com/computers">www.ti.com/computers</a>
Clocks and Timers	<a href="http://www.ti.com/clocks">www.ti.com/clocks</a>	Consumer Electronics	<a href="http://www.ti.com/consumer-apps">www.ti.com/consumer-apps</a>
Interface	<a href="http://interface.ti.com">interface.ti.com</a>	Energy	<a href="http://www.ti.com/energy">www.ti.com/energy</a>
Logic	<a href="http://logic.ti.com">logic.ti.com</a>	Industrial	<a href="http://www.ti.com/industrial">www.ti.com/industrial</a>
Power Mgmt	<a href="http://power.ti.com">power.ti.com</a>	Medical	<a href="http://www.ti.com/medical">www.ti.com/medical</a>
Microcontrollers	<a href="http://microcontroller.ti.com">microcontroller.ti.com</a>	Security	<a href="http://www.ti.com/security">www.ti.com/security</a>
RFID	<a href="http://www.ti-rfid.com">www.ti-rfid.com</a>	Space, Avionics & Defense	<a href="http://www.ti.com/space-avionics-defense">www.ti.com/space-avionics-defense</a>
RF/IF and ZigBee® Solutions	<a href="http://www.ti.com/lprf">www.ti.com/lprf</a>	Video and Imaging	<a href="http://www.ti.com/video">www.ti.com/video</a>
		Wireless	<a href="http://www.ti.com/wireless-apps">www.ti.com/wireless-apps</a>

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