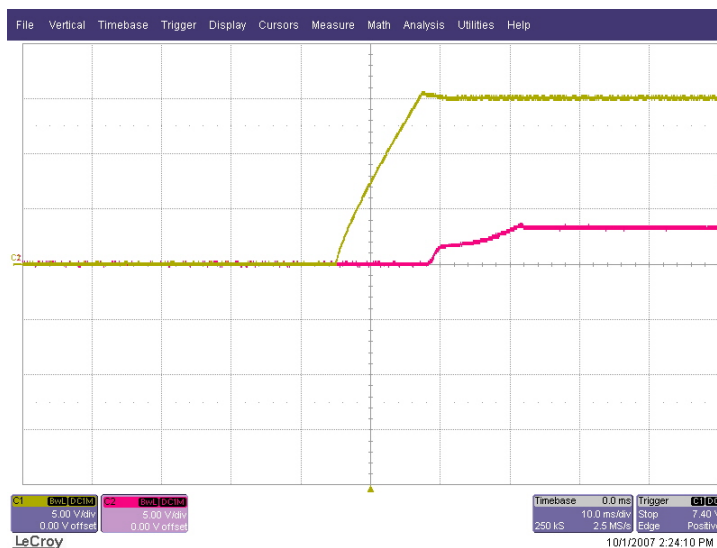


1 Startup

The photo below show the startup waveforms. The input voltage is 48V, the outputs are not loaded. The timebase is set to 10ms/Division.

Channel 1 : 15V Output – Yellow (5V/Division)

Channel 2 : 3.3V Output – Pink (5V/Division)

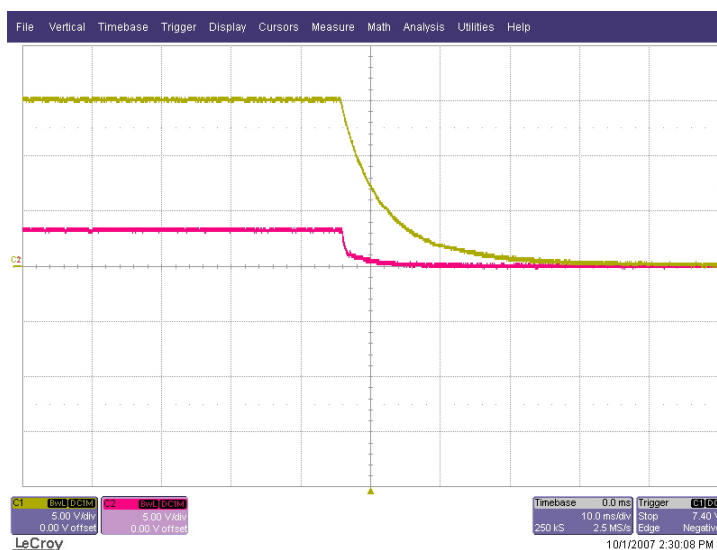


2 Shutdown

The photos below show the shutdown waveforms. The input voltage is 48V. The timebase is set to 10ms/Division. The outputs are loaded with 1A.

Channel 1 : 15V Output – Yellow (5V/Division)

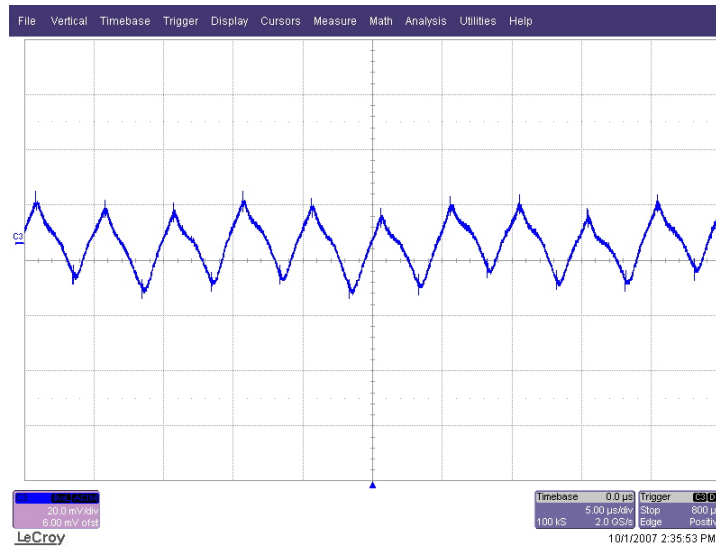
Channel 2 : 3.3V Output – Pink (5V/Division)



3 Output Ripple Voltage

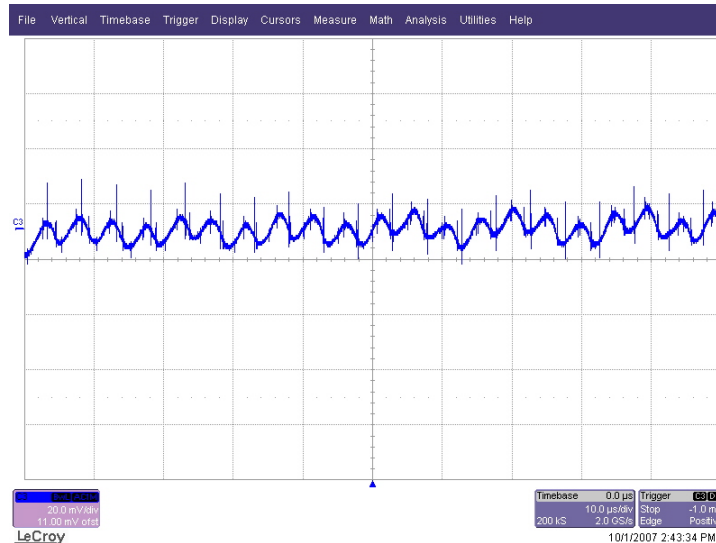
The output voltage ripple is shown in the figures below. The input is 48V. The outputs are fully loaded.

Channel 3 : 3.3V Output – Blue (AC Coupled; 20mV/Division)



5us/Division

Channel 3 : 15V Output – Blue (AC Coupled; 20mV/Division)



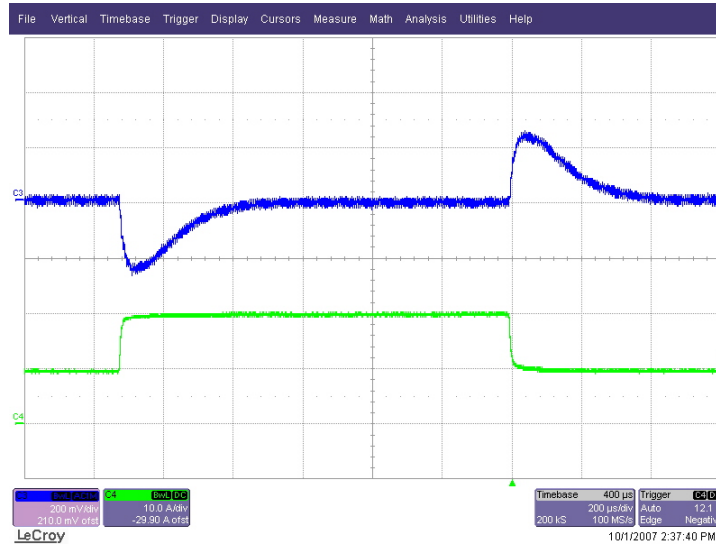
10us/Division

4 Load Transients

The photos below show the transient response. The current is pulsed from 50% to 100% load. The timebase is set to 200us/Division.

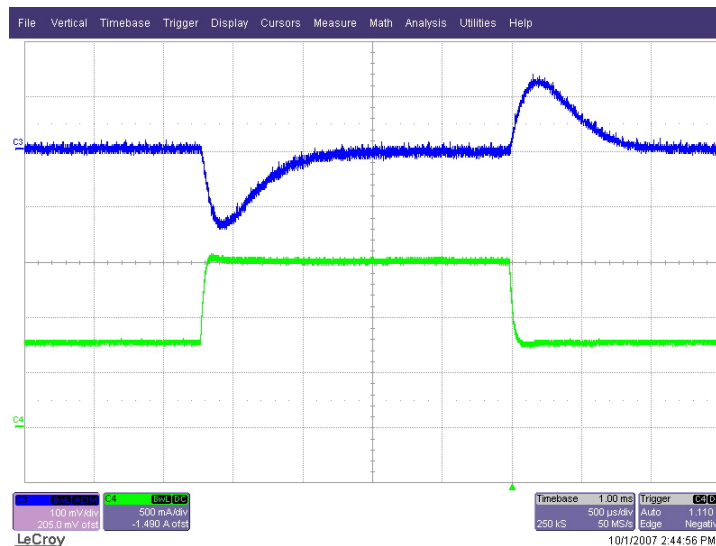
Channel 3 : 3.3V Output – Blue (AC Coupled; 200mV/Division)

Channel 4 : Output Current – Green (10A/Division)



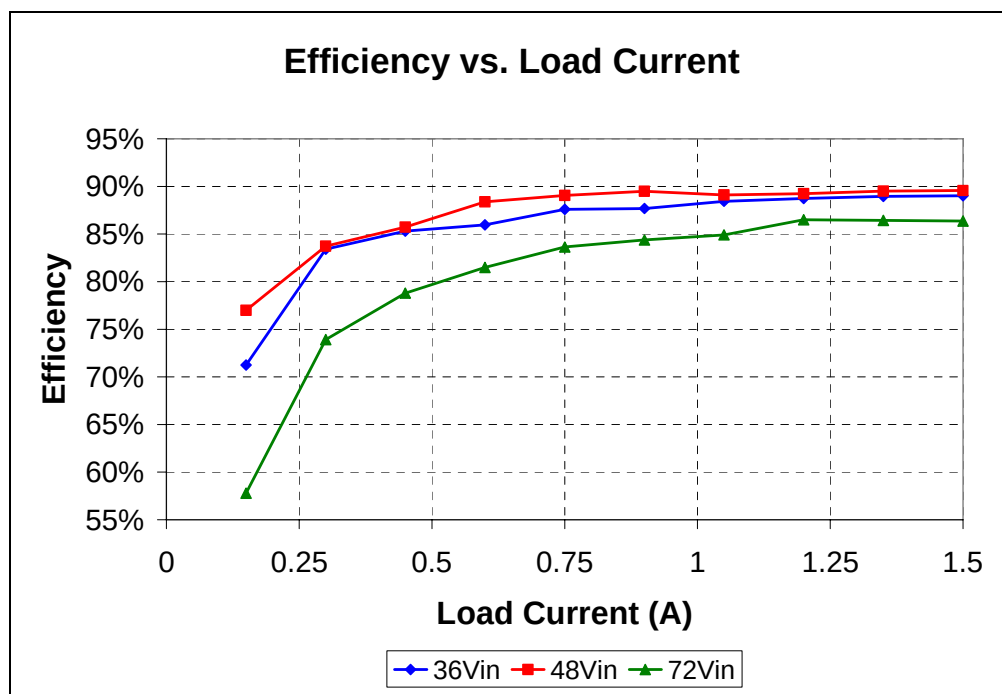
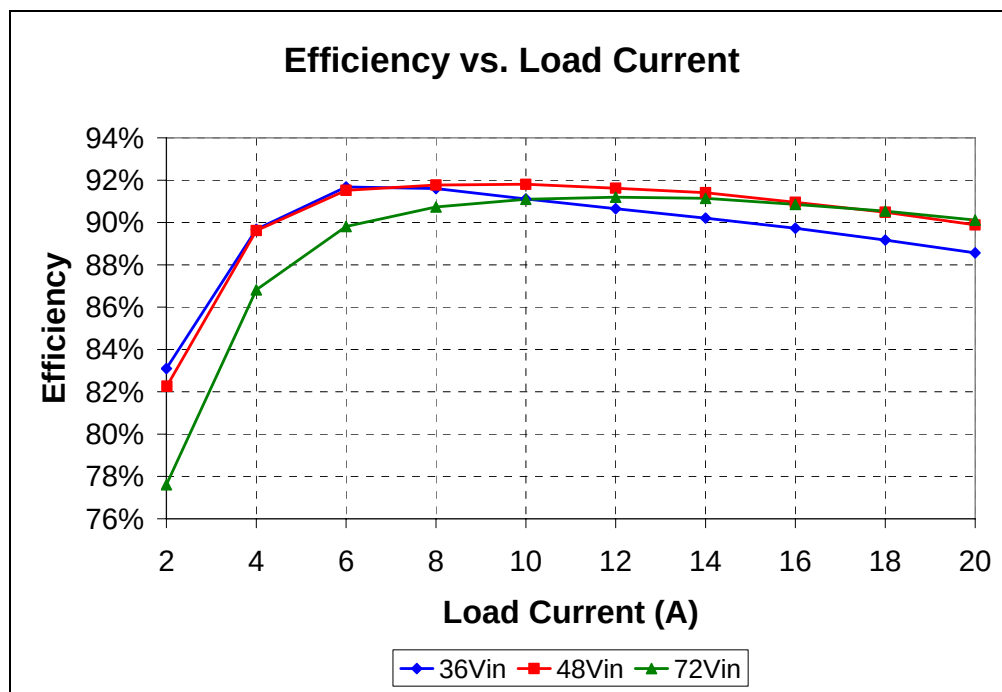
Channel 3 : 15V Output – Blue (AC Coupled; 100mV/Division)

Channel 4 : Output Current – Green (500mA/Division)



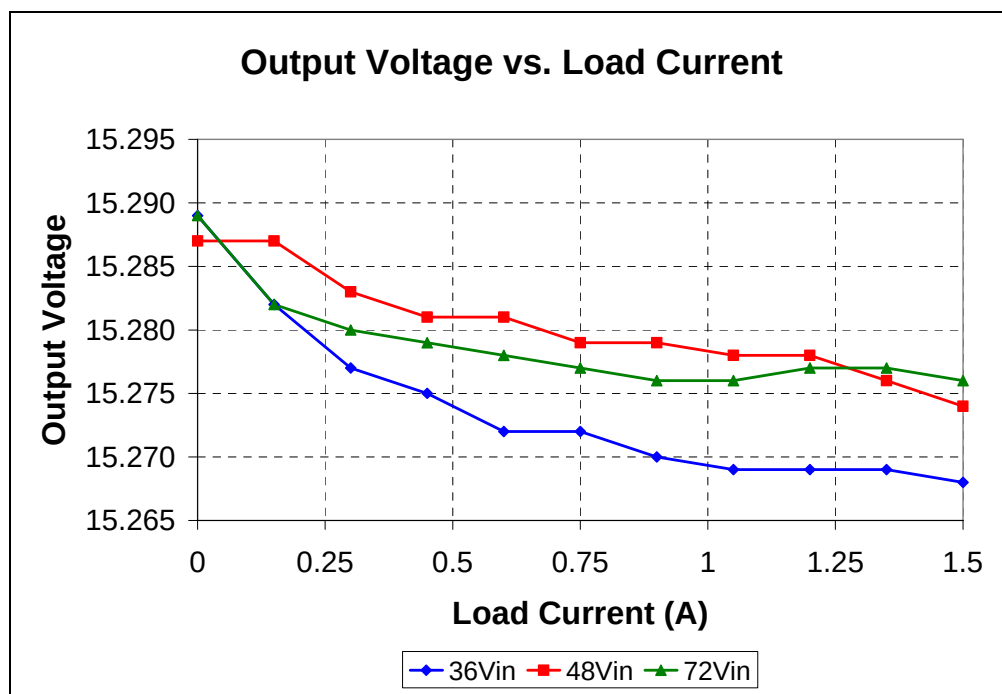
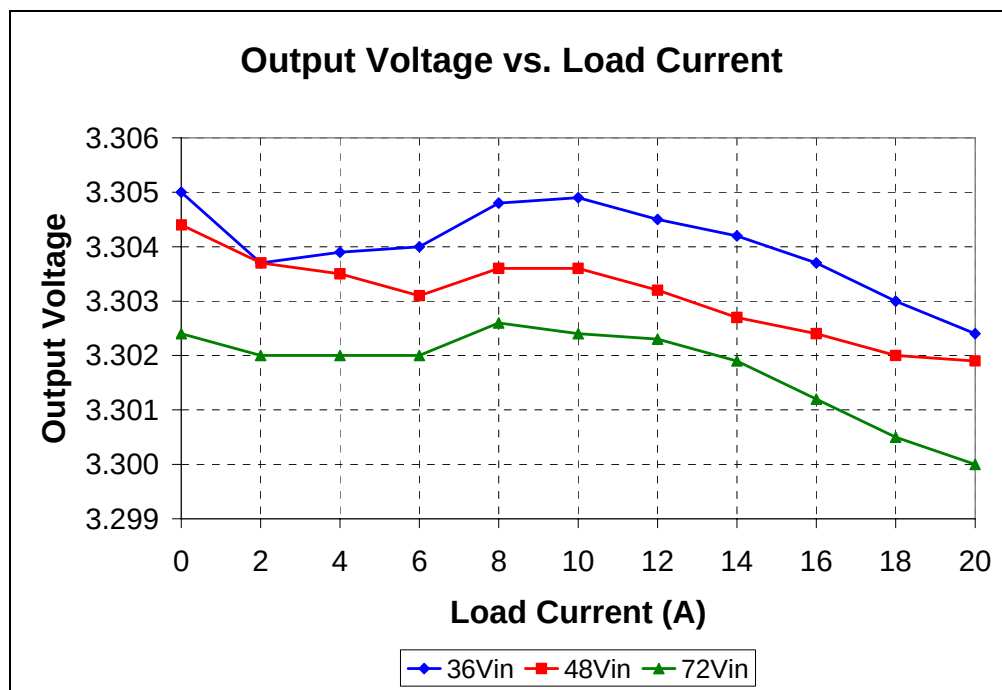
5 Efficiency

The efficiency of each output is shown in the figures below.



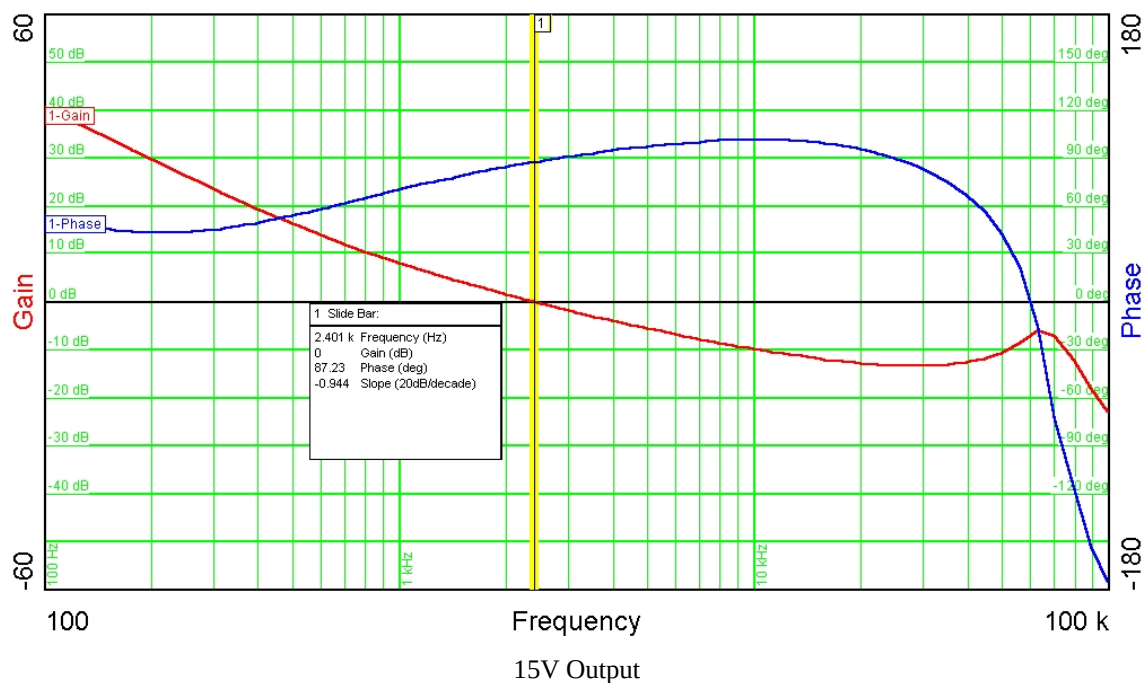
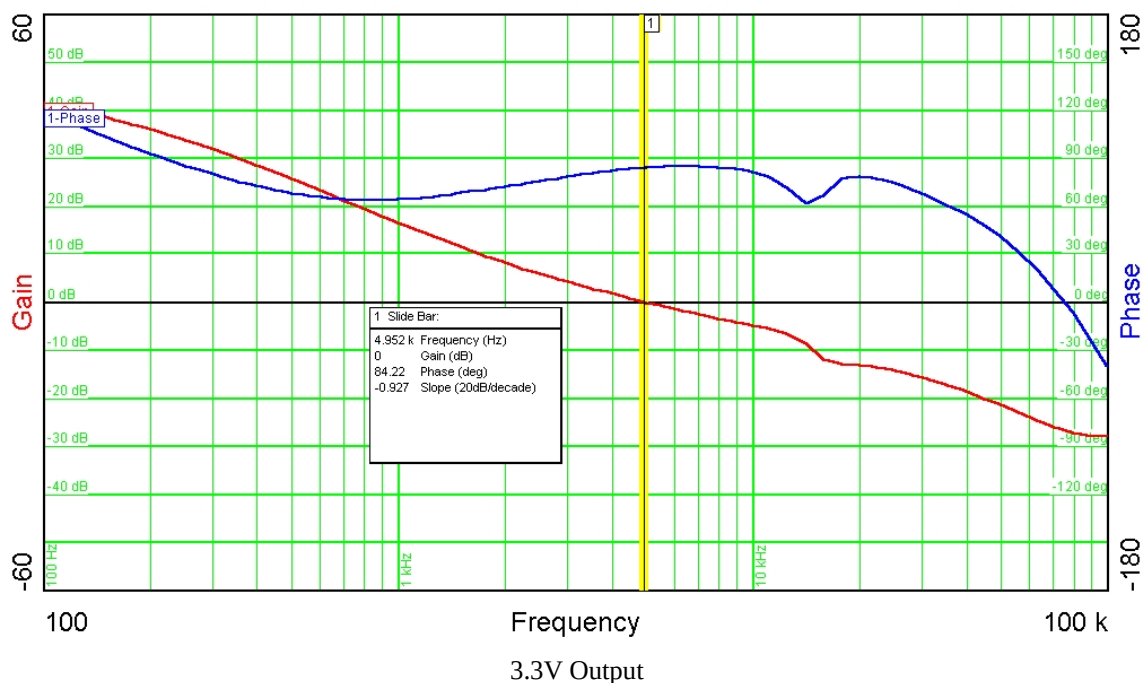
6 Load Regulation

The load regulation for each output is shown in the figures below.



7 Loop Response

The loop response for each output is shown in the figures below.

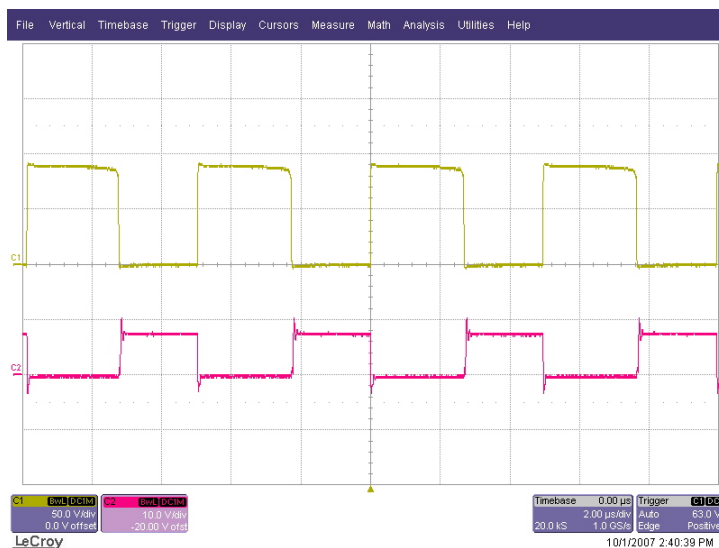


8 Switching Waveforms

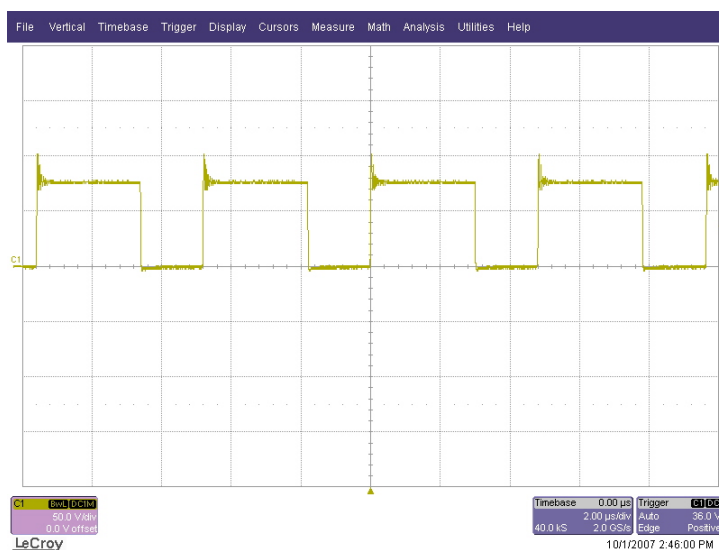
The switching waveforms for each output is shown in the figures below. The input voltage is 48V. The outputs are fully loaded. The timebase is set to 2us/Division.

Channel 1 : 3.3V Primary Switch Node – Yellow (50V/Division)

Channel 2 : 3.3V Secondary Switch Node – Pink (10V/Division)



Channel 1 : 15V Primary Switch Node – Yellow (50V/Division)



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