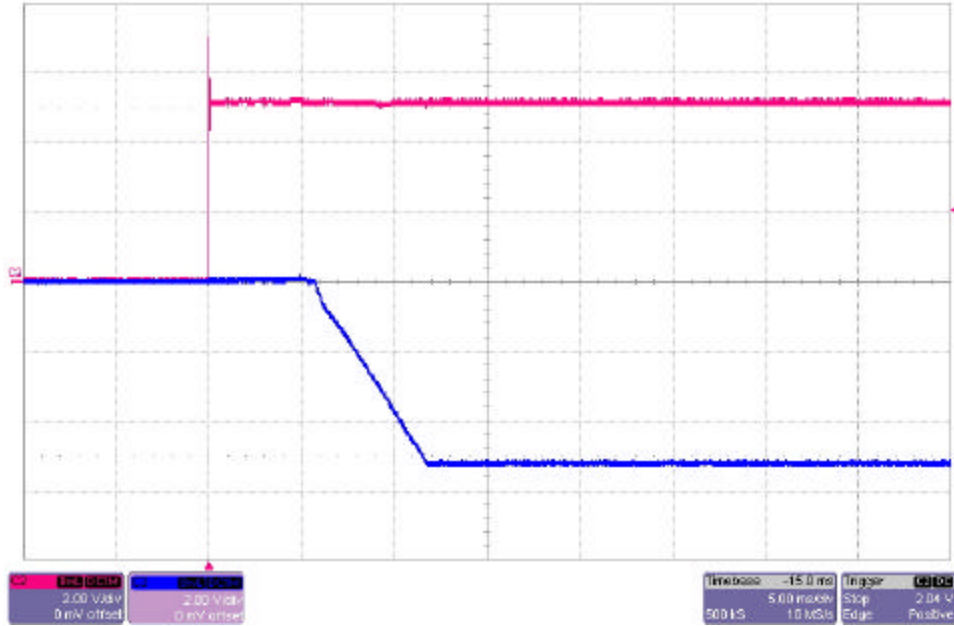
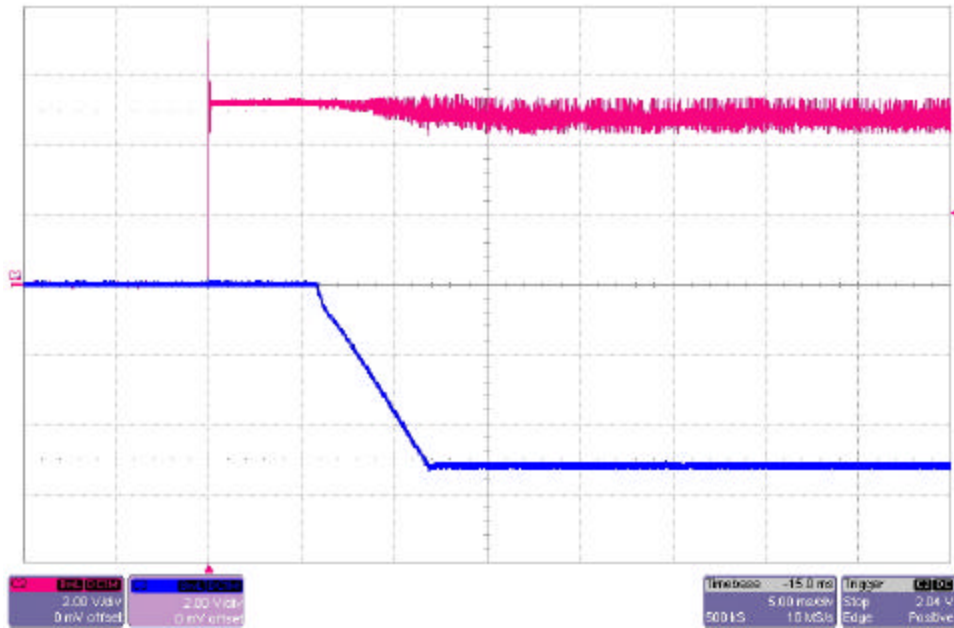


1 Start Up

The waveform below shows the application of the input voltage and the start up of the -5.2V output voltage. The output is loaded at 0A. (2V/DIV, 5mS/DIV)

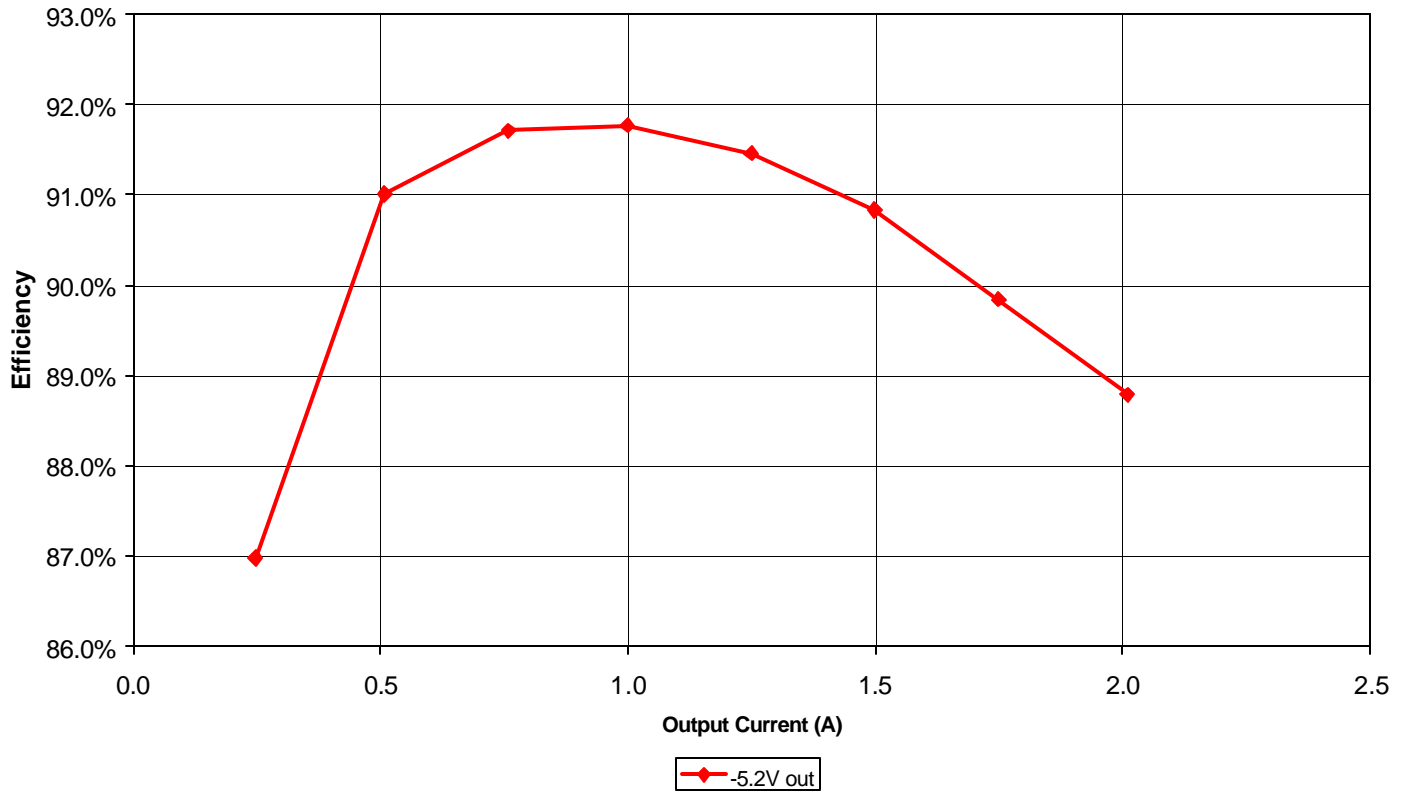


The waveform below shows the application of the input voltage and the start up of the -5.2V output voltage. The output is loaded at 2A. (2V/DIV, 5mS/DIV)



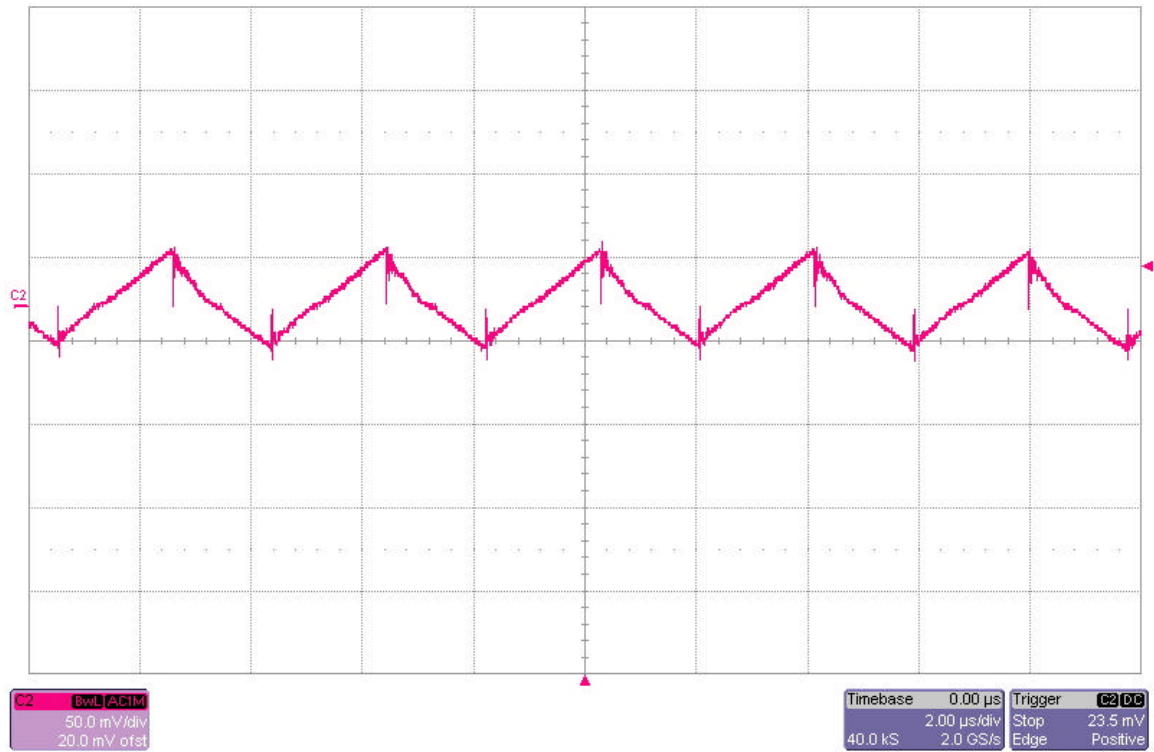
2 Efficiency

The converter efficiency is shown in the figure below. $V_{in} = 5V$, $V_{out} = -5.2V$



3 Output Ripple Voltage

The -5.2V output ripple voltage is shown in the figure below. The image was taken the output loaded at max load (2A).
 $V_{in} = 5.0V$ (50mV/DIV, 2 μ S/DIV)

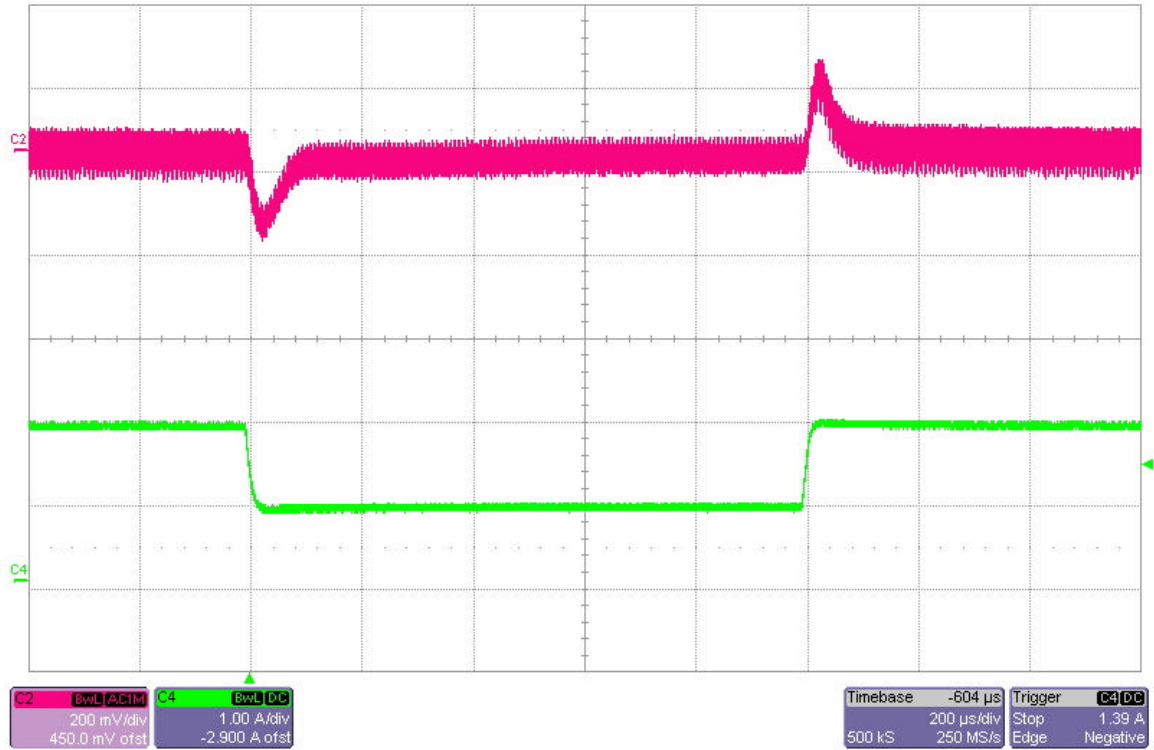


4 Load Transient Response

The photo below shows the -5.2V output response and recovery to a 1A to 2A step load. $V_{in} = 5V$.

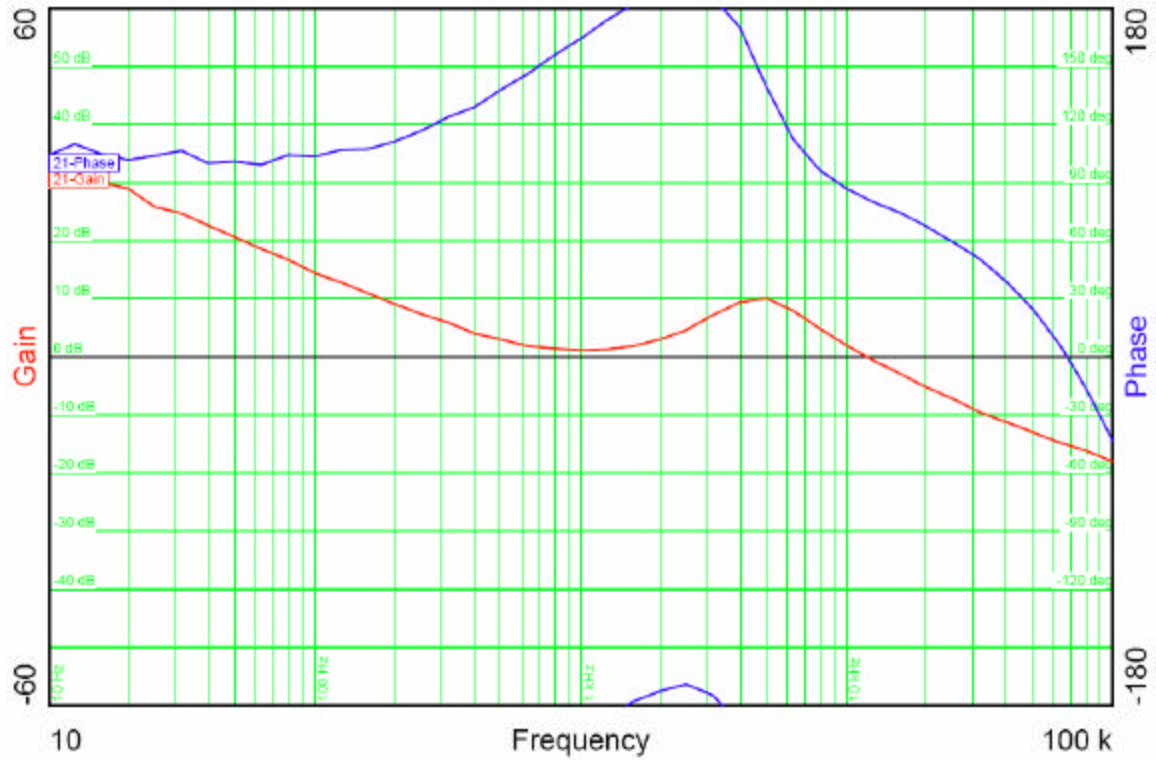
Top: -5.2V output voltage, ac coupled, 200mV/DIV

Bot: Output Current, 1A/DIV, 200uS/DIV)

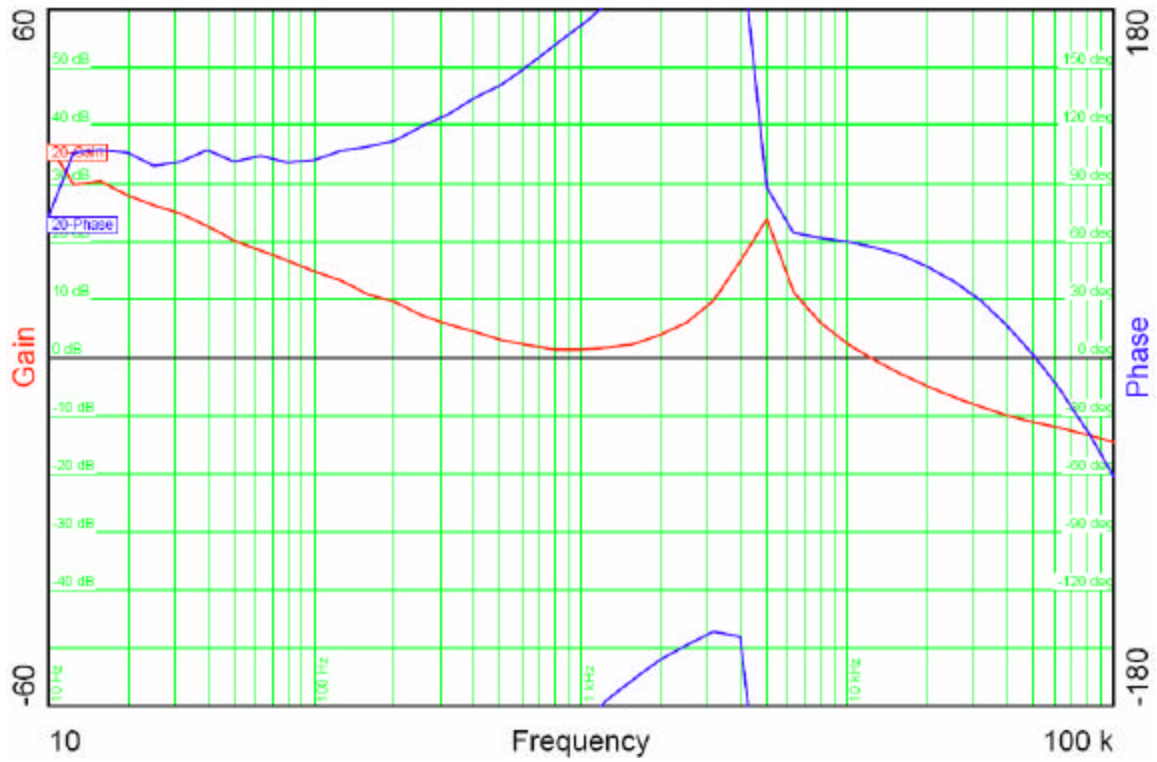


5 Loop Gain / Stability

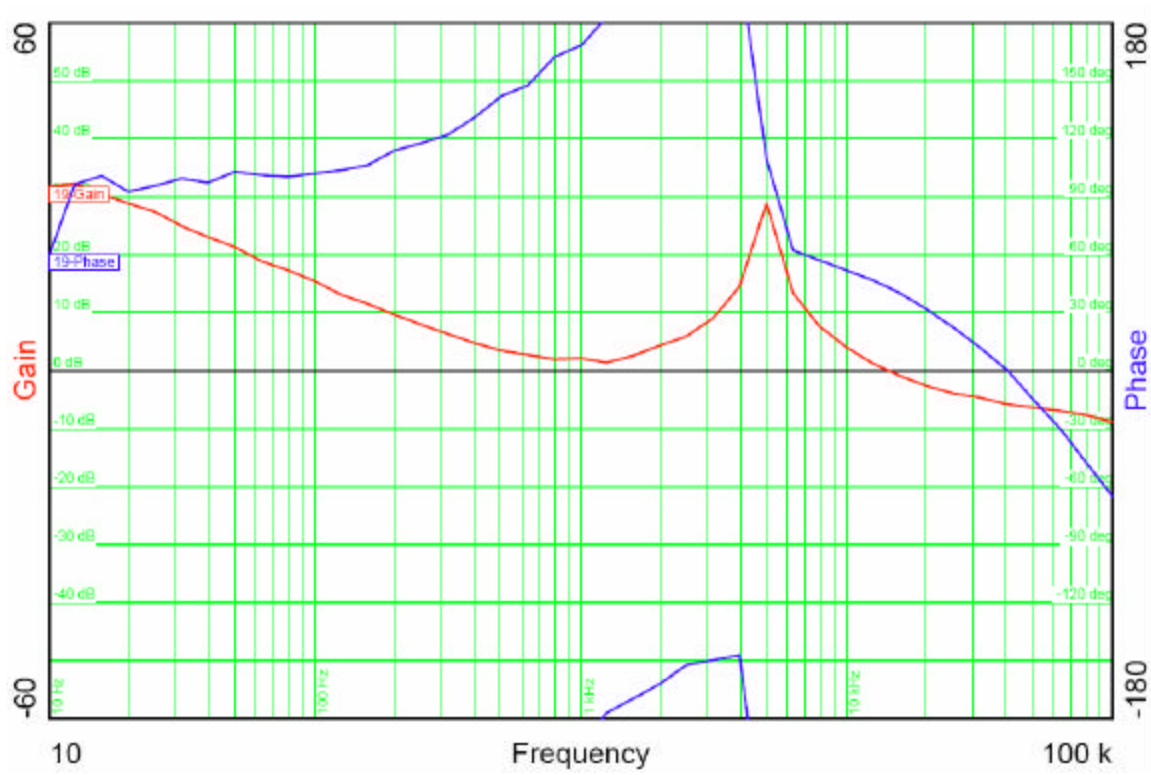
The plot below shows the -5.2V converter closed loop gain and phase margin. $V_{in} = 5V$, $0.5A$ load
BW = 11KHz PM = 80 degrees



The plot below shows the -5.2V converter closed loop gain and phase margin. $V_{in} = 5V$, 1A load
BW = 11KHz PM = 58 degrees



The plot below shows the -5.2V converter closed loop gain and phase margin. $V_{in} = 5V$, 2A load
BW = 13KHz PM = 45 degrees



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