

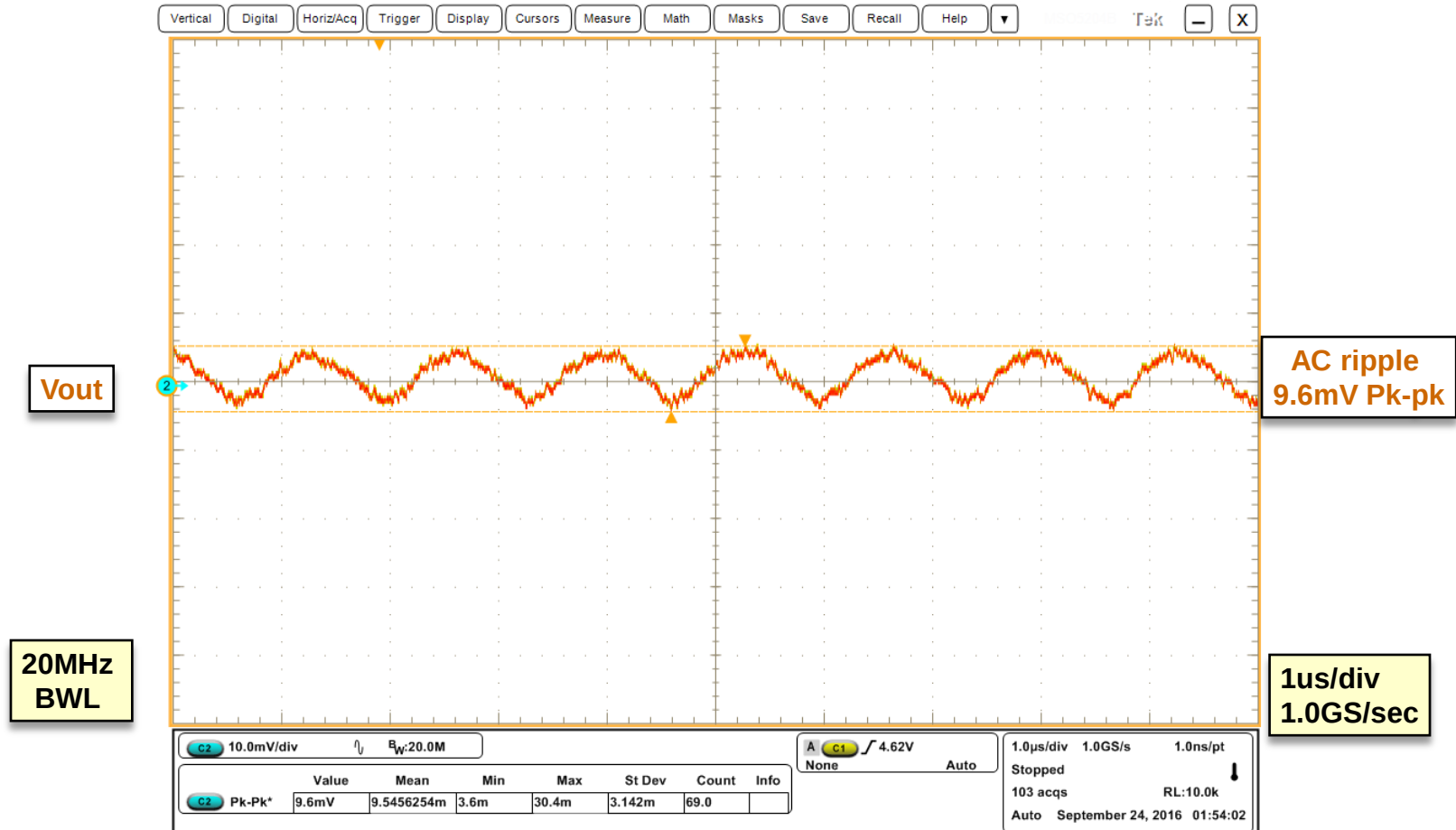
Test Results of EV-105 board iPOL Regulators

PoL Team
9/23/2016



IR38063-V0P95 rail

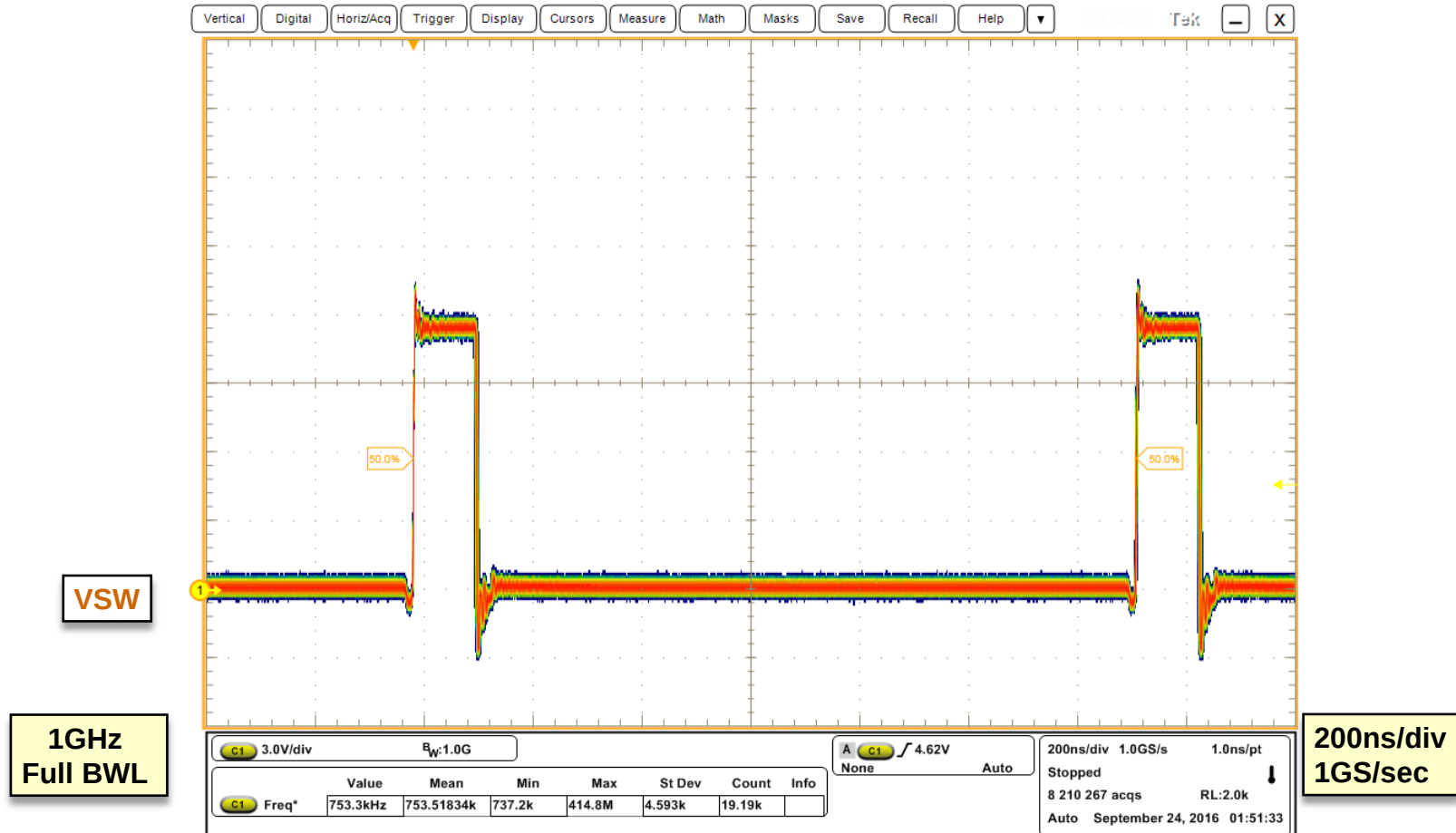
AC output ripple at 25A load



Output Voltage Ripple, 25A load

IR38063-V0P95 rail

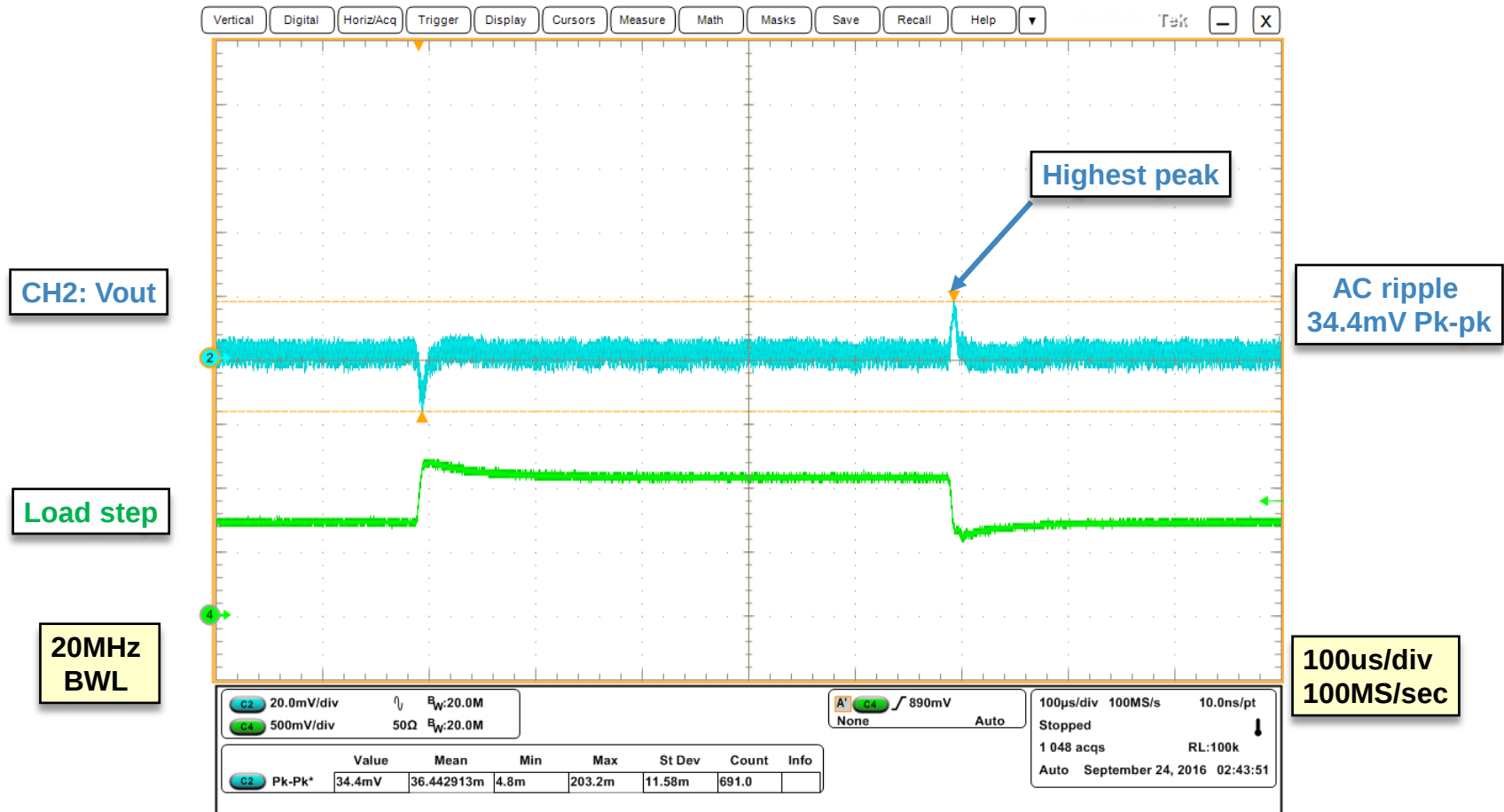
VSW node at 750kHz with Persistence



VSW node at 25A load

IR38063-V0P95 Transient Response 34.4mV

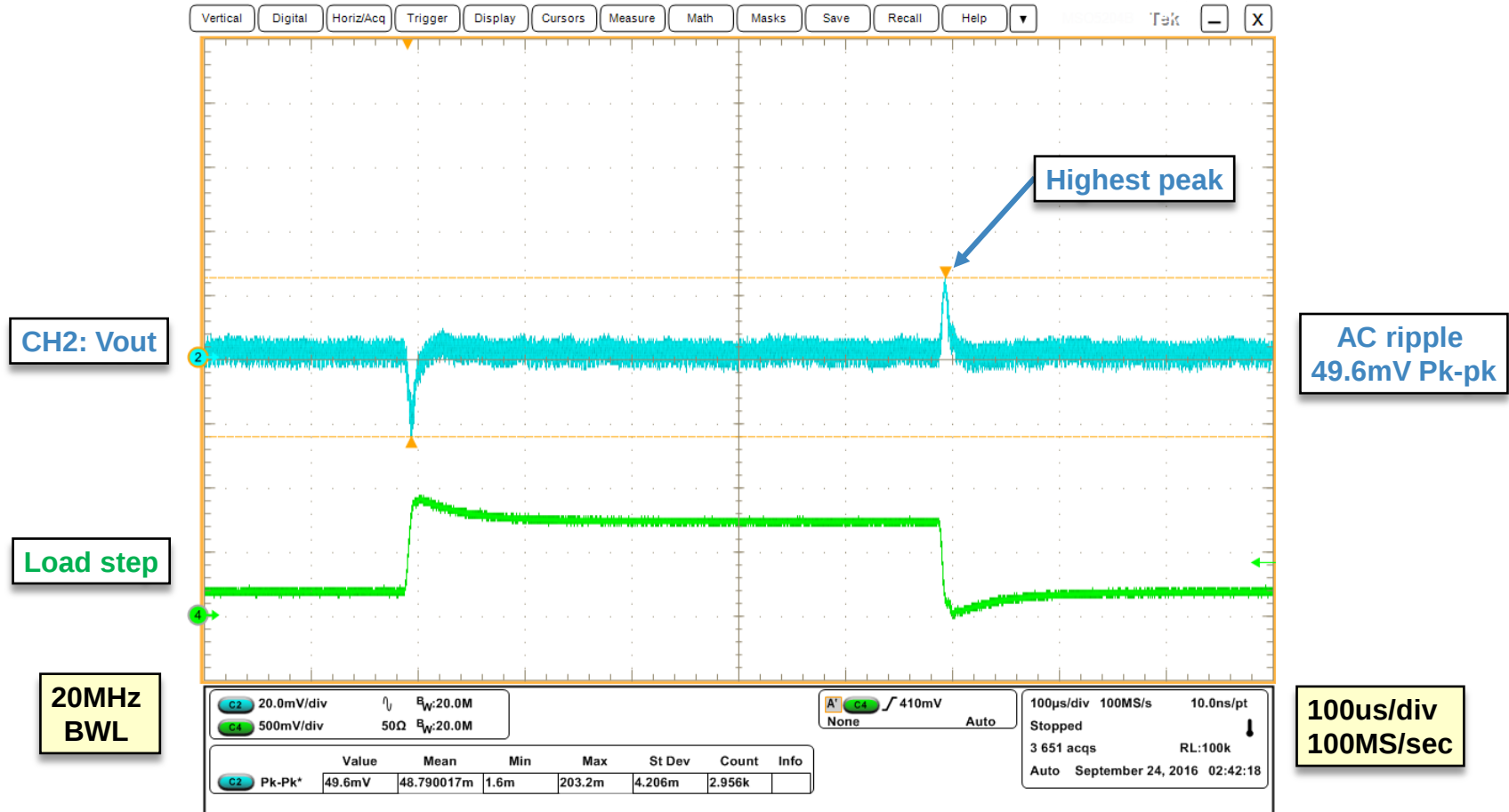
Load step of 4.8A (10A <> 14.8A) with di/dt (2.5A/us)



Transient Response, 10A to 14.8A step (2.5A/us)

IR38063-V0P95 Transient Response 49.6mV

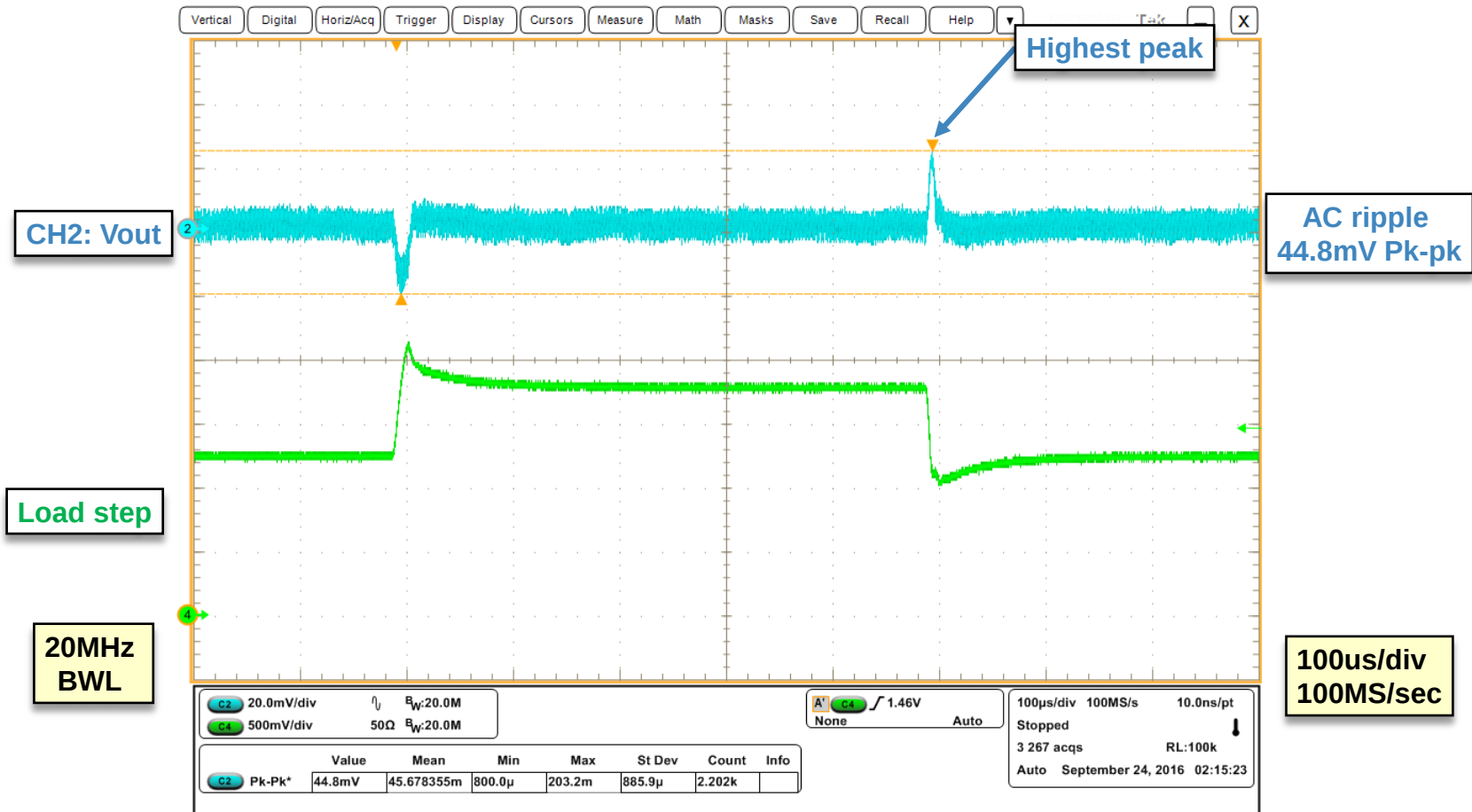
Load step of 7.5A (2.5A < > 10A) with di/dt (2.5A/us)



Transient Response, 2.5A to 10A step (2.5A/us)

IR38063-V0P95 Transient Response 44.8mV

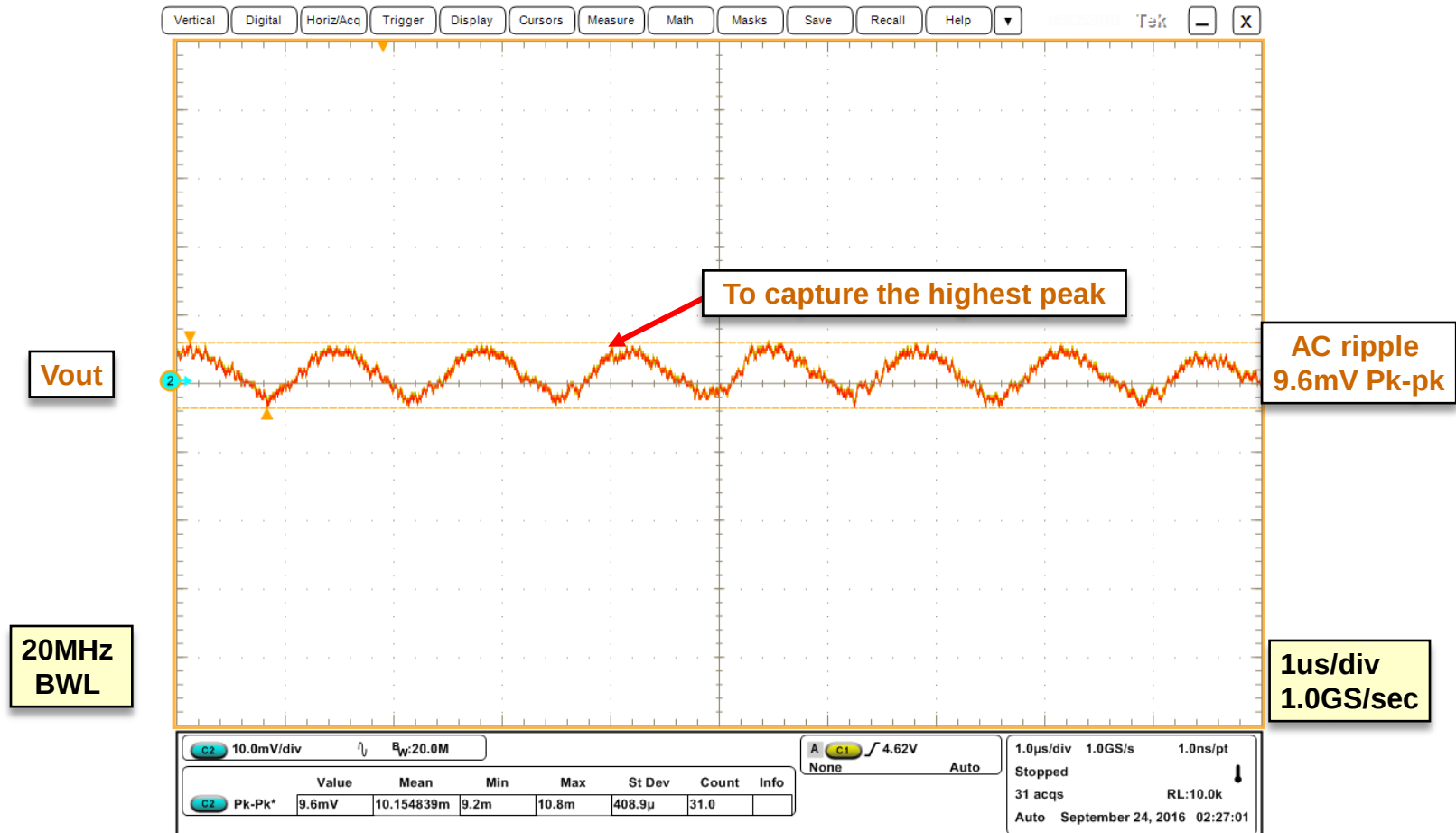
Load step of 7.5A (17.5A<>25A) with di/dt (2.5A/us)



Transient Response, 2.5A to 10A step (2.5A/us)

IR38062-V0P9 rail

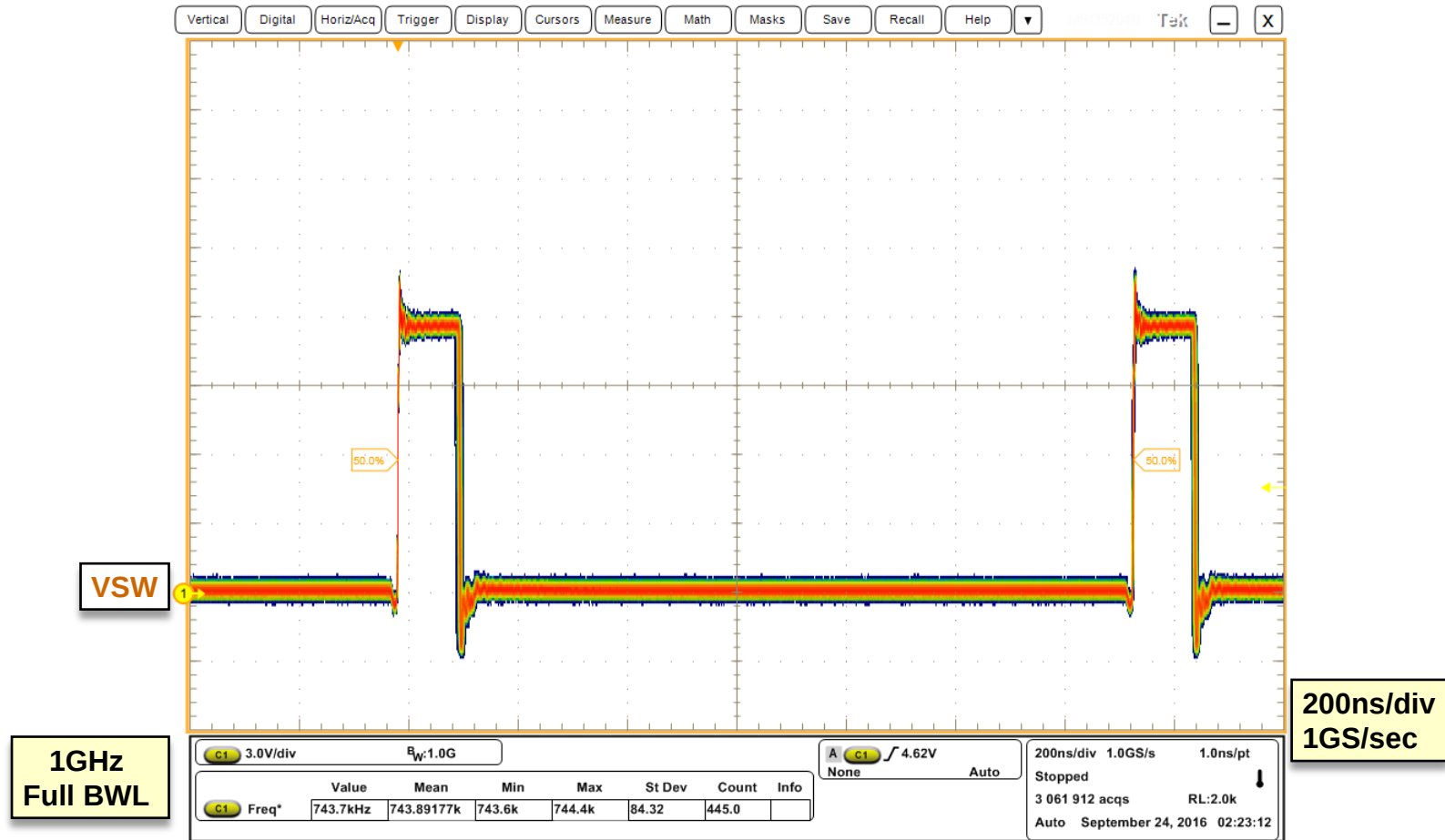
AC output ripple at 15A load



Output Voltage Ripple, 15A load Ch₂: V_{out}

IR38062-V0P9 rail at 15A

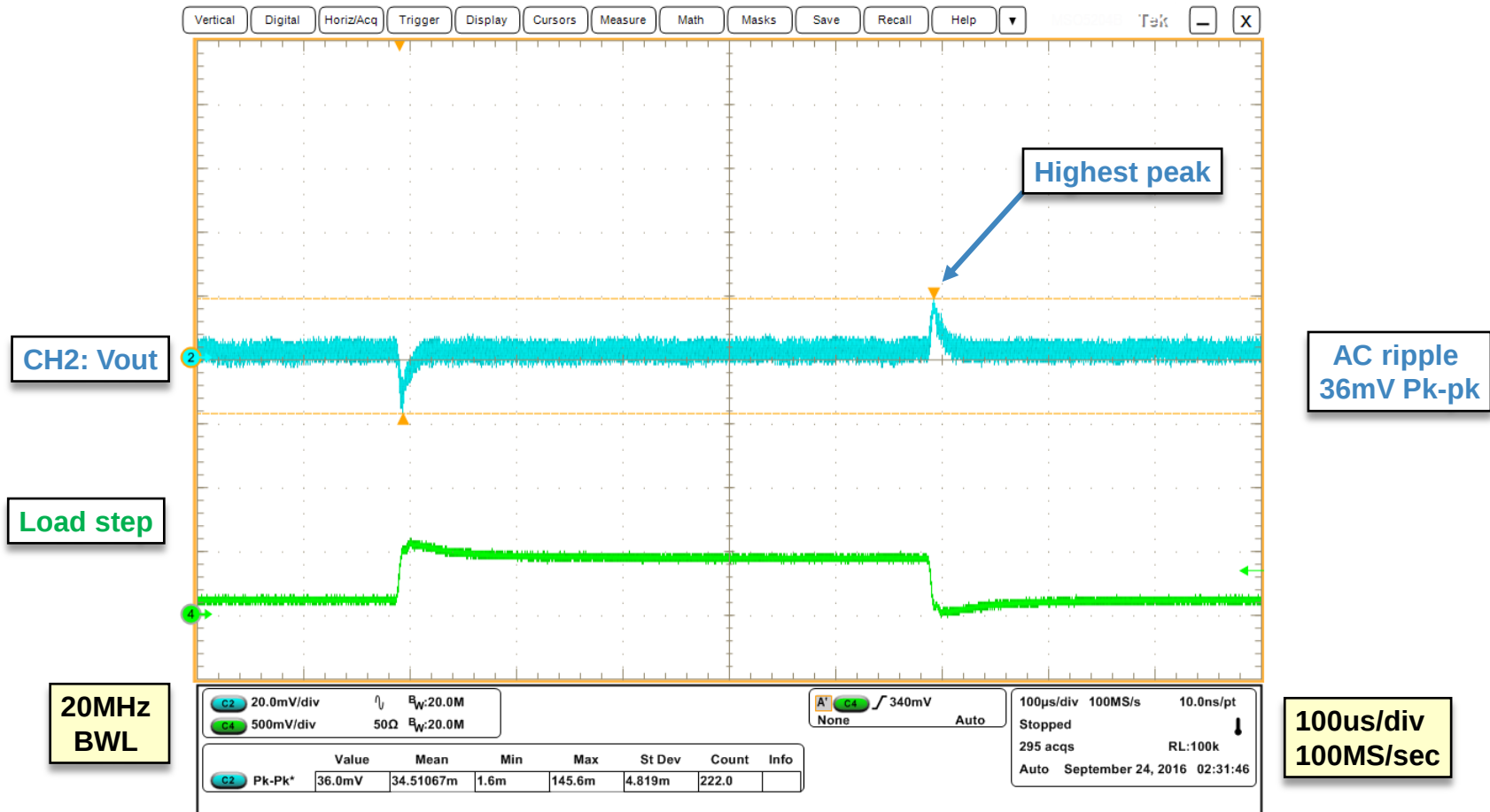
VSW node at 750kHz with Persistence



VSW node at 15A load

IR38062-V0P9 Transient Response 36mV

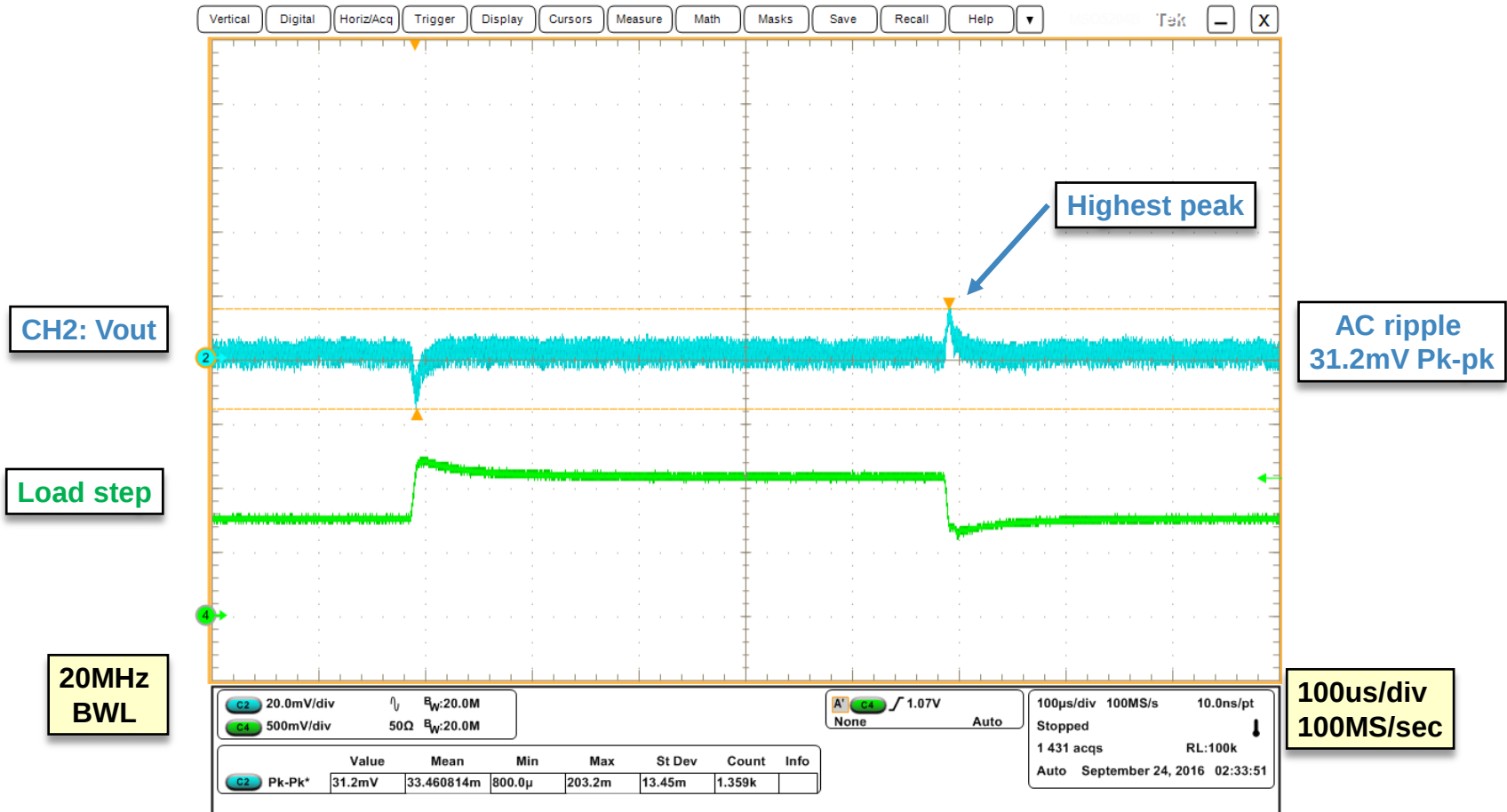
Load step of 4.5A (1.5A<->6A) with di/dt (2.5A/us)



Transient Response, 1.5A to 6A step (2.5A/us)

IR38062-V0P9 Transient Response 31.2mV

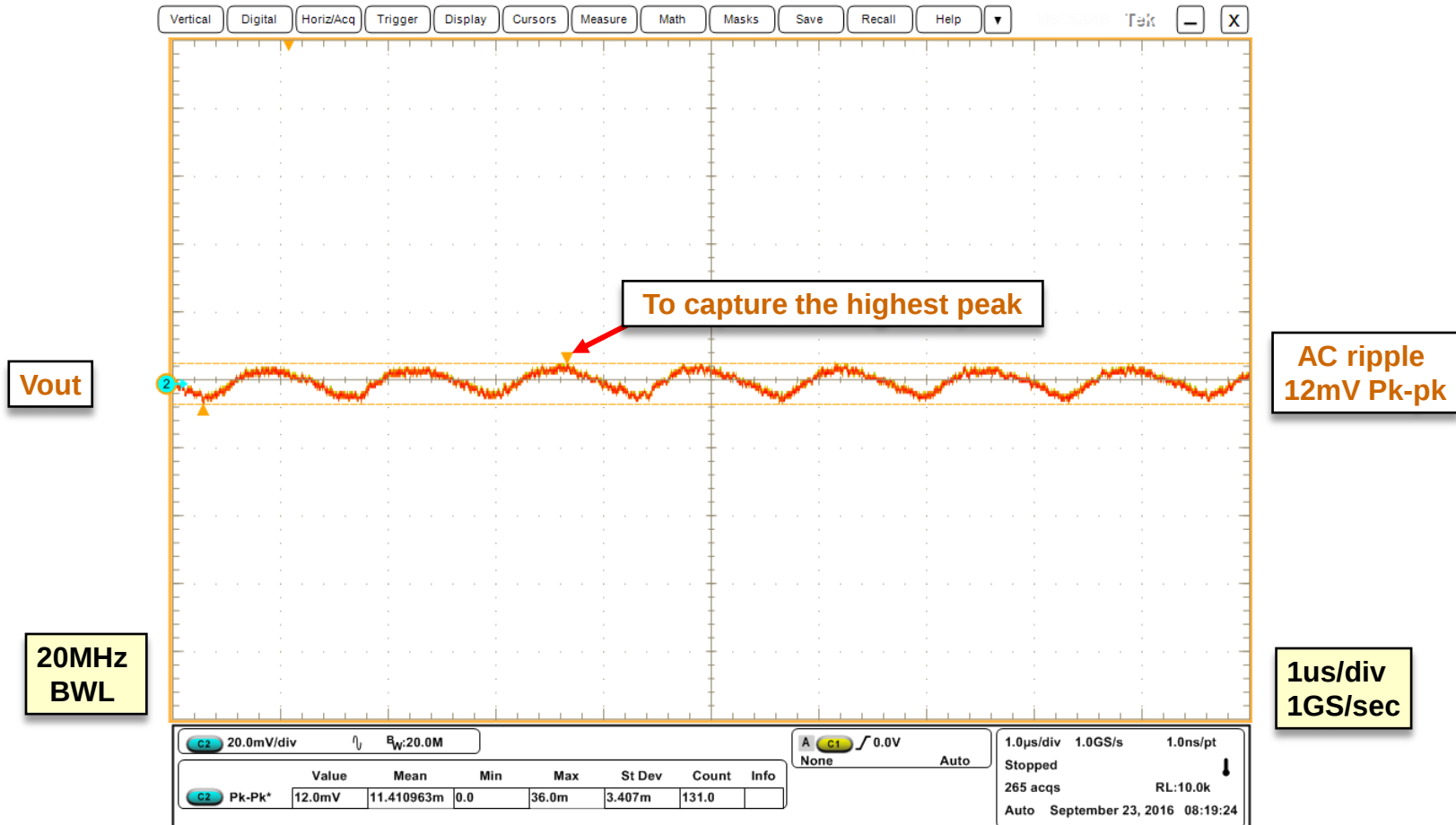
Load step of 4.5A (10.5A <> 15A) with di/dt (2.5A/us)



Transient Response, 10.5A to 15A step (2.5A/us)

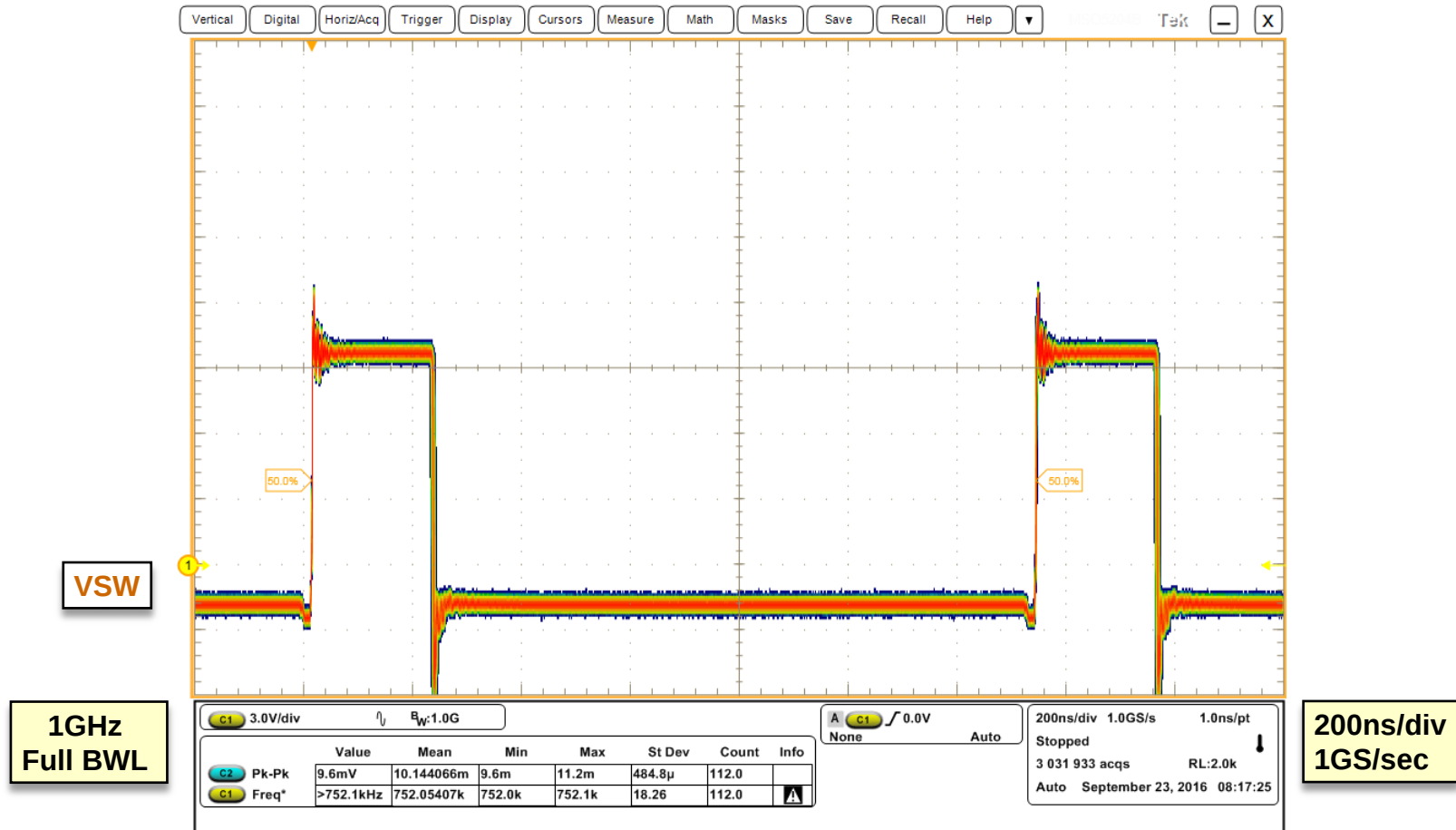
IR3894, V1P8 rail at 12A load

AC output ripple with Persistence



Output Voltage Ripple, 12A load Ch₂: V_{out}

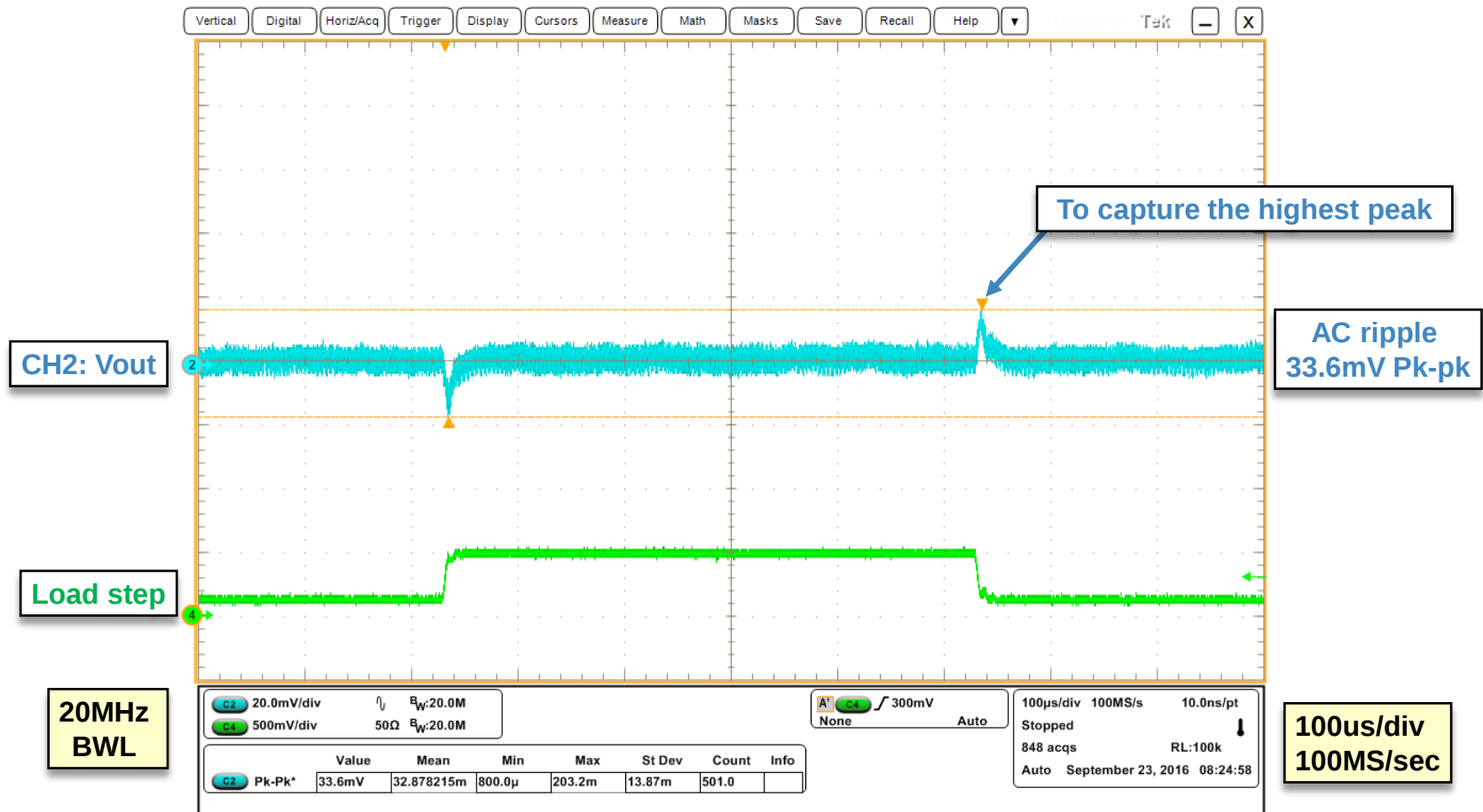
IR3894, V1P8 rail at 12A load VSW node at 750kHz with Persistence



VSW node at 12A load

IR3894, V1P8 Transient Response 33.6mV

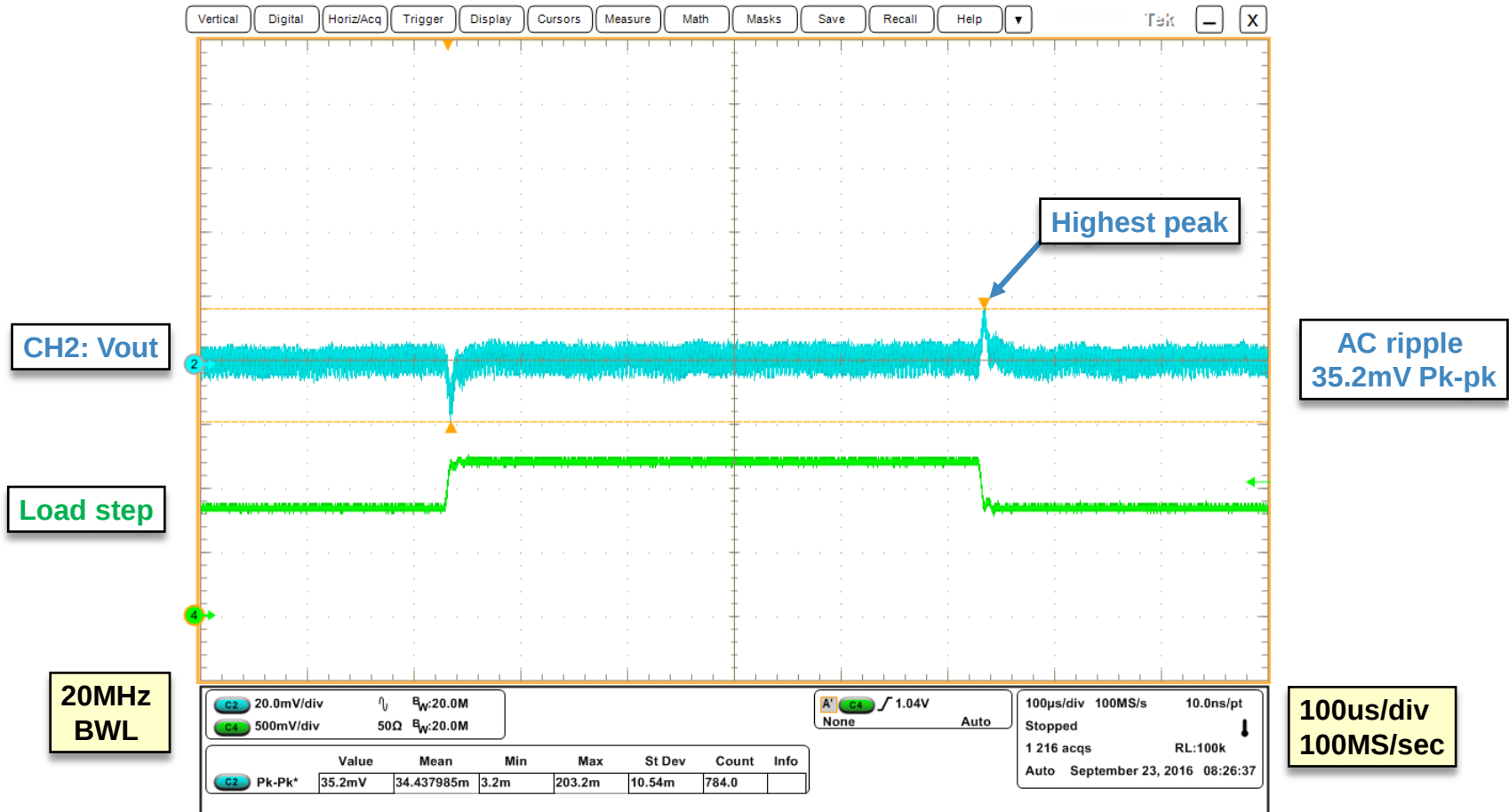
Load step of 3.6A (1.2A<>4.8A) with di/dt (2.5A/us)



Transient Response, 1.2A to 4.8A step (2.5A/us)

IR3894, V1P8 Transient Response 35.2mV

Load step of 3.6A (8.4A<>12A) with di/dt (2.5A/us)



Transient Response, 8.4A to 12A step (2.5A/us) Ch₂:V_{out}



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