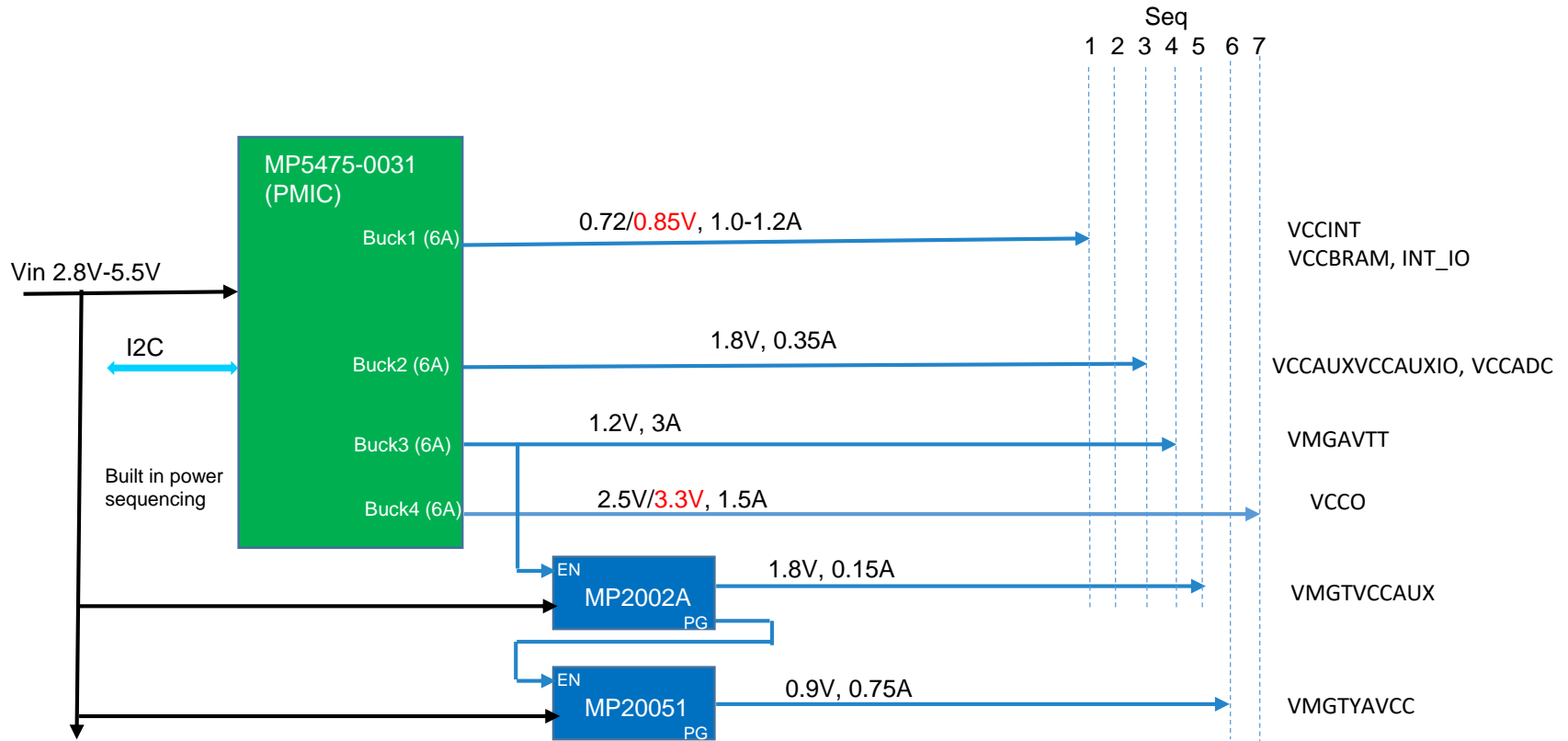


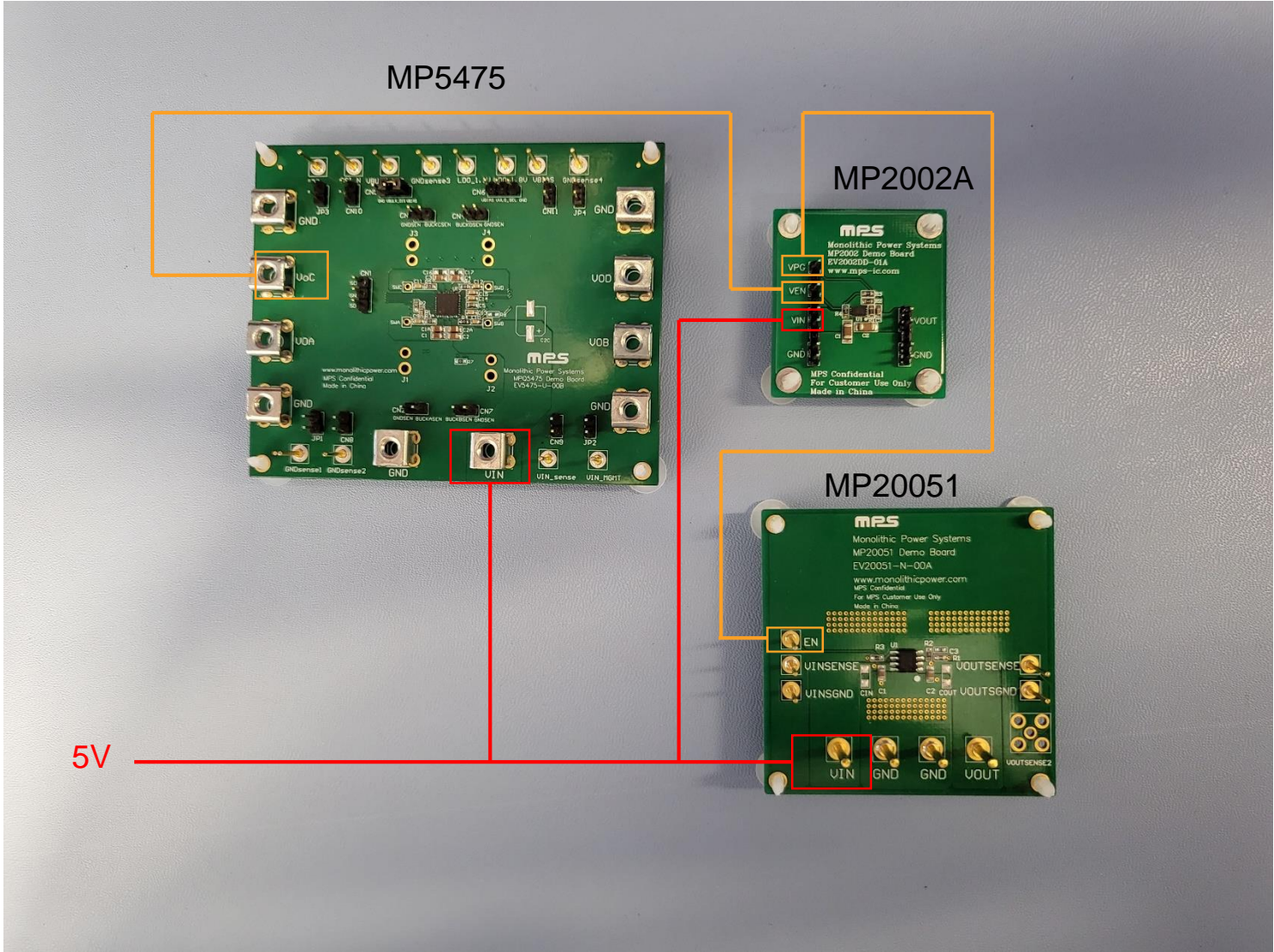
ArtixUS+ Test Report

AU10P/AU15P/AU20P/AU25P (MP5475 PMIC)



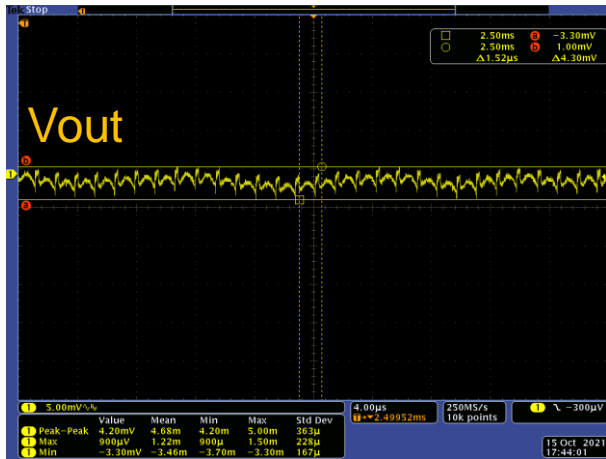
Note: Voltages shown in red are default values

AU10P/AU15P/AU20P/AU25P (MP5475 PMIC) EVB Connection

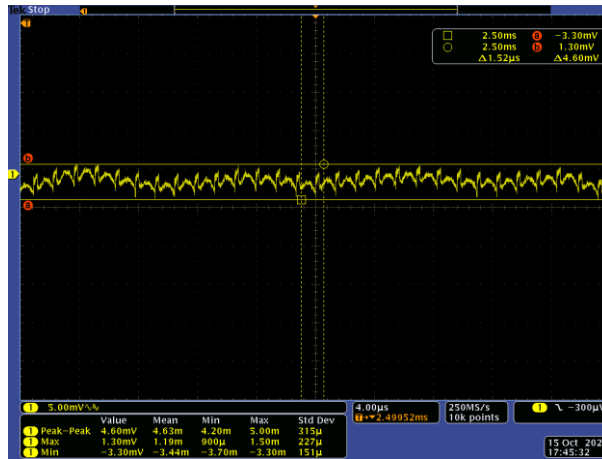


AU10P/AU15P/AU20P/AU25P VCCINT Ripple (MP5475 PMIC)

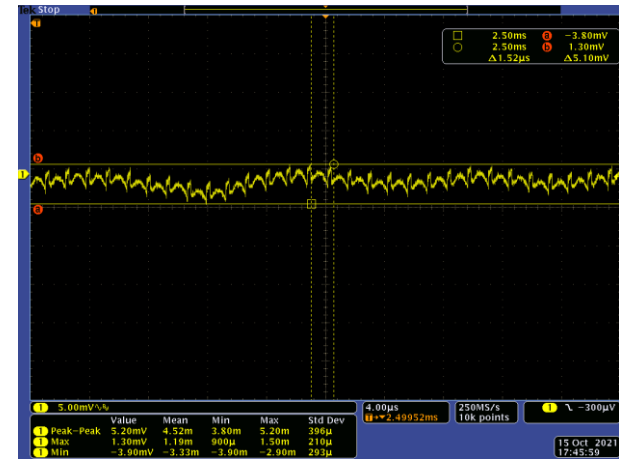
Standby



Half Load



Max Load



- ❑ 4.2 mV peak-peak ripple at Standby
- ❑ 4.6 mV peak-peak ripple at Half load
- ❑ 5.2 mV peak-peak ripple at Max load

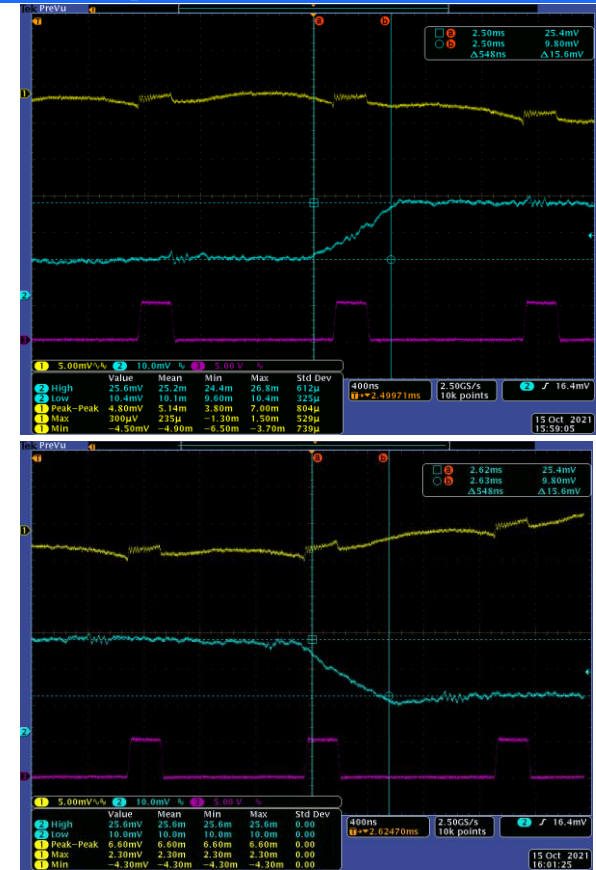
AU10P/AU15P/AU20P/AU25P VCCINT Transient (MP5475 PMIC)

Step Load 0.35A → 0.9A → 0.35A, 10A/us

Vout

Io

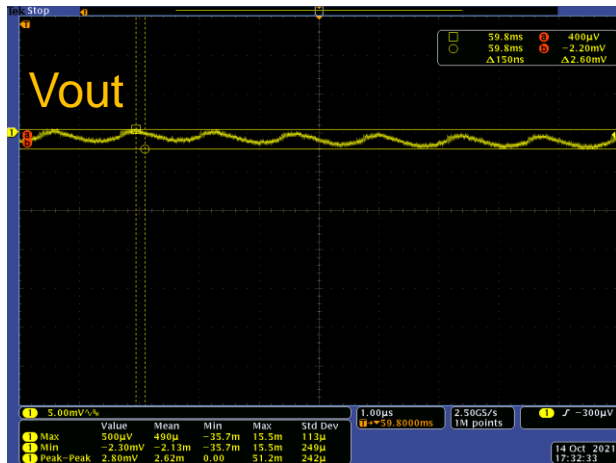
SW



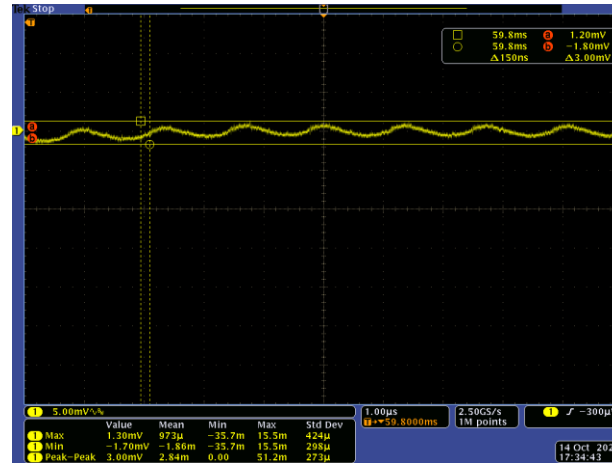
Vout ripple -0.79% (-6.7mV) to +0.46% (3.9mV) with load transient

AU10P/AU15P/AU20P/AU25P VMGAVTT Ripple (MP5475 PMIC)

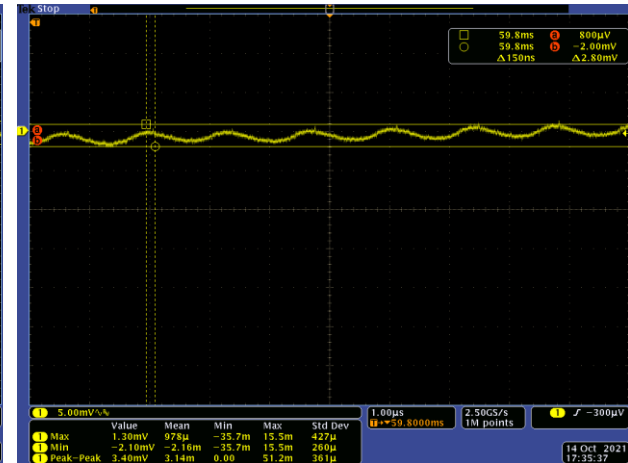
Standby



Half Load



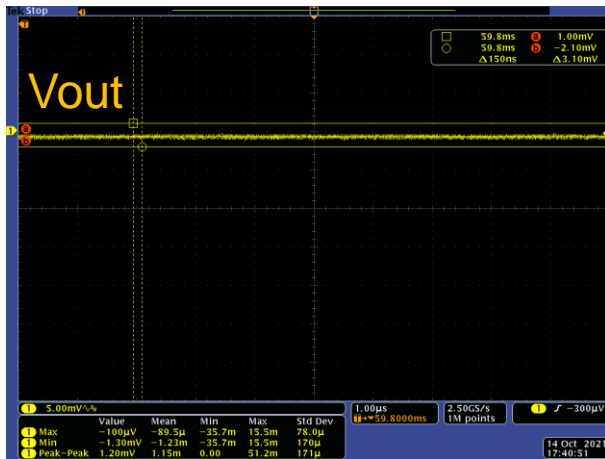
Max Load



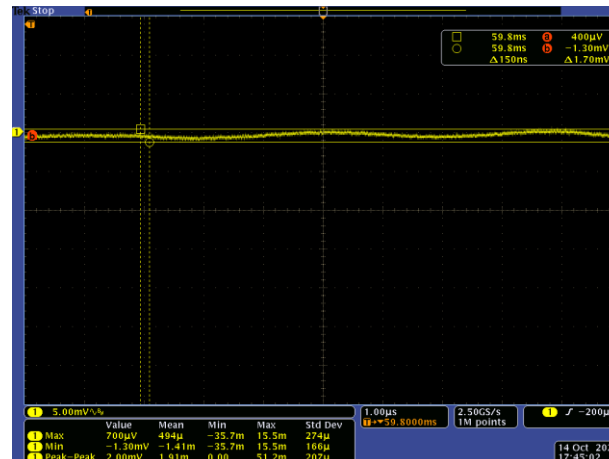
- 2.8 mV peak-peak ripple at Standby
- 3.0 mV peak-peak ripple at Half load
- 3.4 mV peak-peak ripple at Max load

AU10P/AU15P/AU20P/AU25P VMGTVCCAUX Ripple (MP2002A)

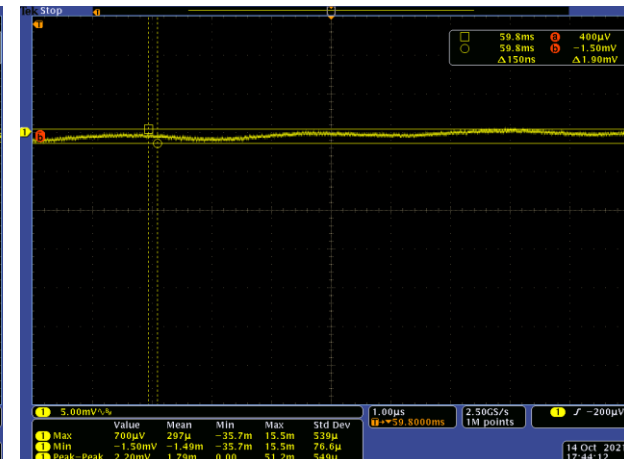
Standby



Half Load



Max Load



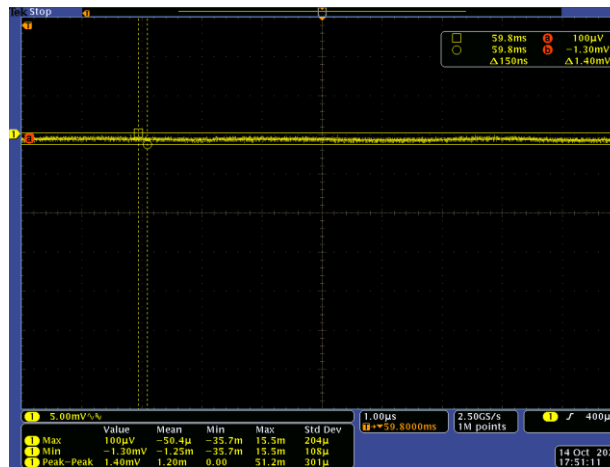
- ❑ 1.2 mV peak-peak ripple at Standby
- ❑ 2.0 mV peak-peak ripple at Half load
- ❑ 2.2 mV peak-peak ripple at Max load

AU10P/AU15P/AU20P/AU25P VMGTYAVCC Ripple (MP20051)

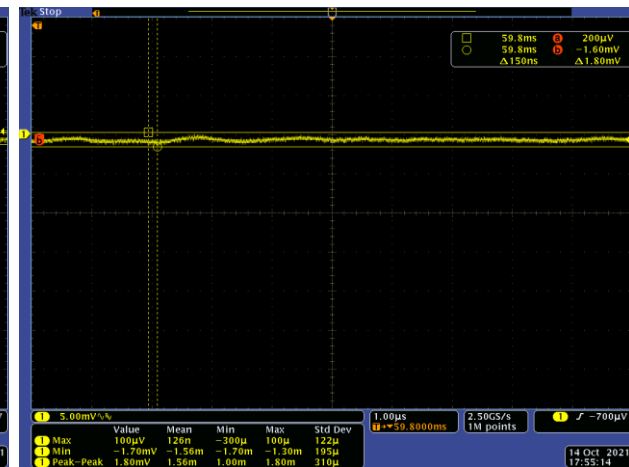
Standby



Half Load



Max Load



- ❑ 1.2 mV peak-peak ripple at Standby
- ❑ 1.4 mV peak-peak ripple at Half load
- ❑ 1.8 mV peak-peak ripple at Max load

AU10P/AU15P/AU20P/AU25P (MP5475 PMIC)

	Vo	Ripple No load	Ripple Half load	Ripple Full load	Pwr ON Seq
MP5475-Buck1	0.85V	4.2mVpp	4.6mVpp	5.2mVpp	1 (0 ms)
MP5475-Buck2	1.8V	2.6mVpp	3.6mVpp	4.0mVpp	2 (+1.9mS)
MP5475-Buck3	1.2V	2.8mVpp	3.0mVpp	3.4mVpp	3 (+3.6mS)
MP2002A	1.8V	1.2mVpp	2.0mVpp	2.2mVpp	4 (+3.76mS)
MP20051	0.9V	1.2mVpp	1.4mVpp	1.8mVpp	5 (+4.1mS)
MP5475-Buck4	3.3V	4.4mVpp	4.6mVpp	4.8mVpp	6 (+5.6mS)