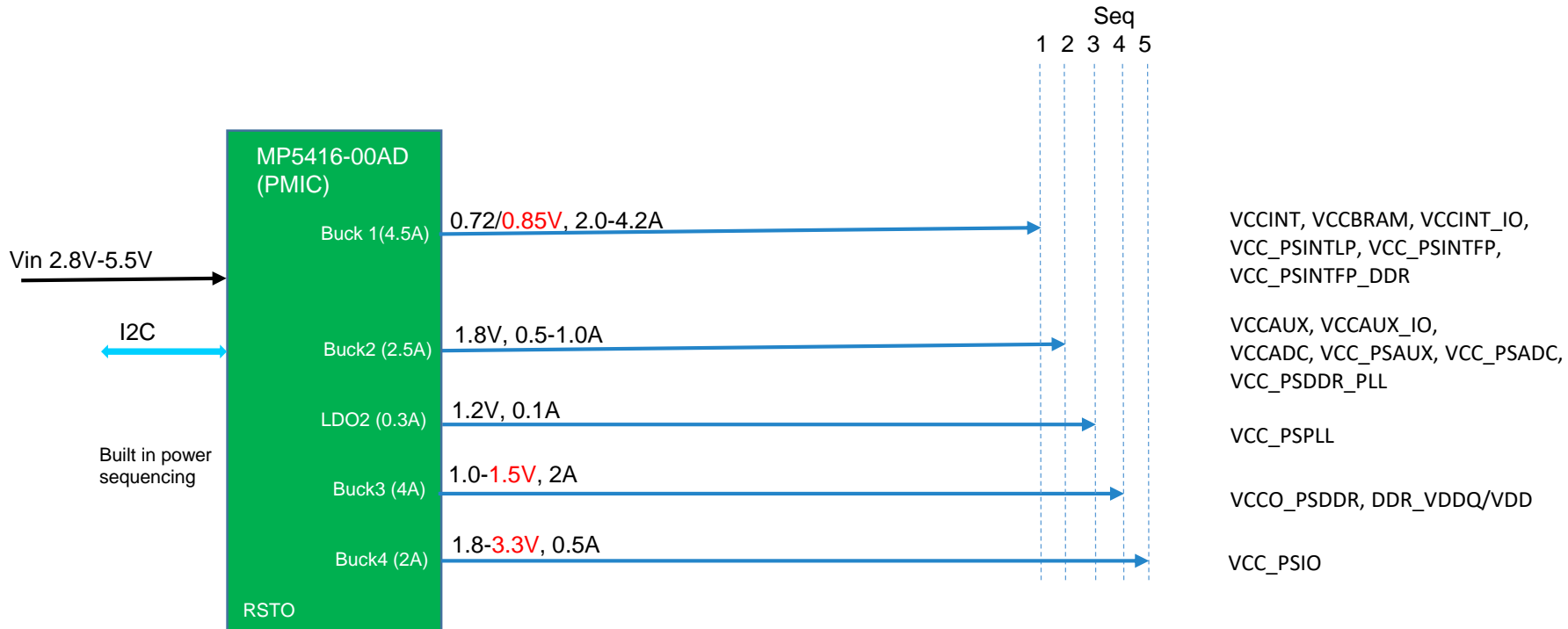


ZynqUS+ Test Report

ZU1/2/3 Minimum Rails (MP5416 PMIC)



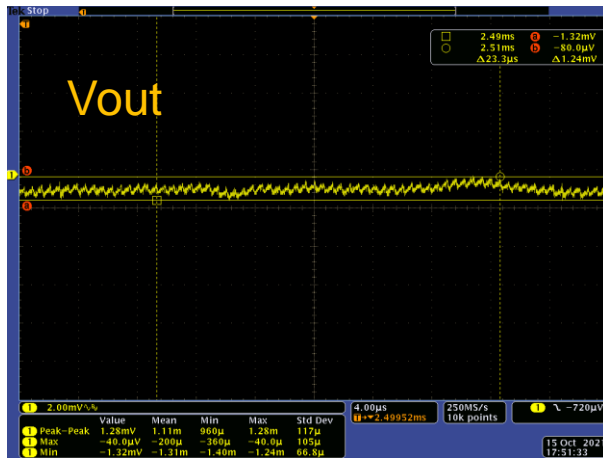
ZU1/2/3 Minimum Rails (MP5416 PMIC) EVB Connection

MP5416

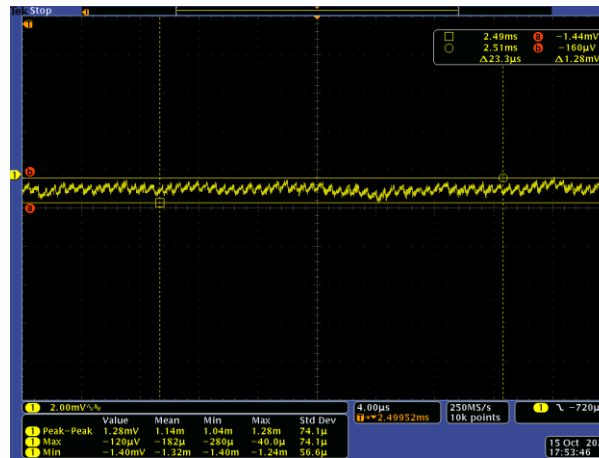


ZU1/2/3 Minimum Rails VCCINT Ripple (MP5416 PMIC)

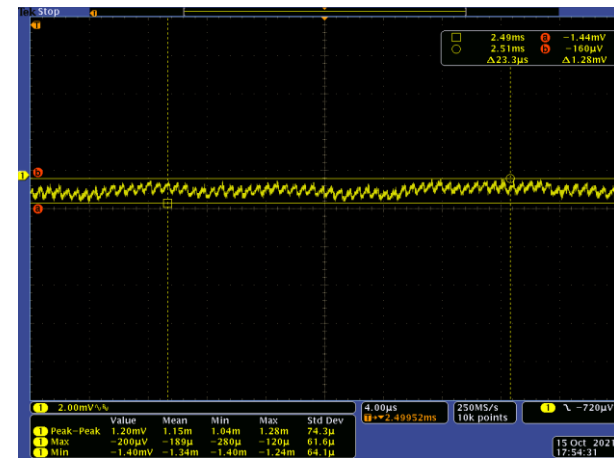
Standby



Half Load



Max Load



- ❑ 1.28 mV peak-peak ripple at Standby
- ❑ 1.28 mV peak-peak ripple at Half load
- ❑ 4.8 mV peak-peak ripple at Max load

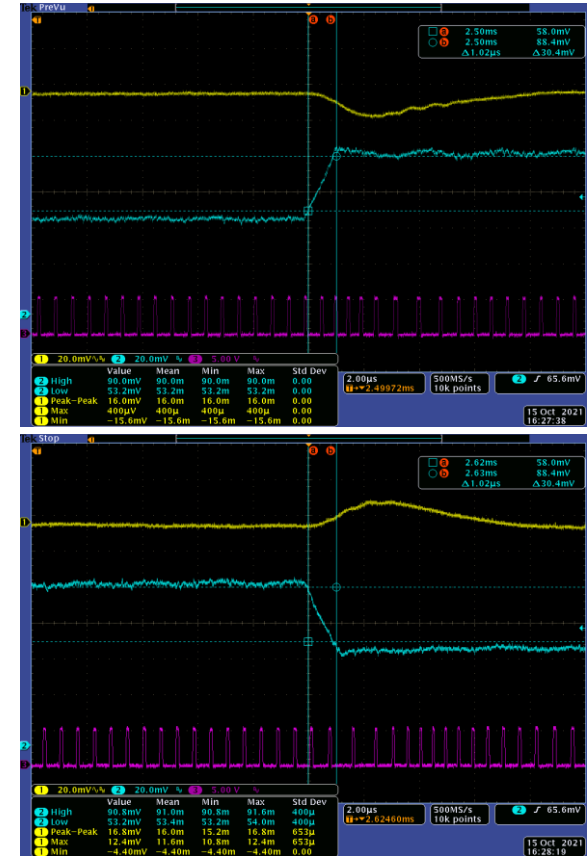
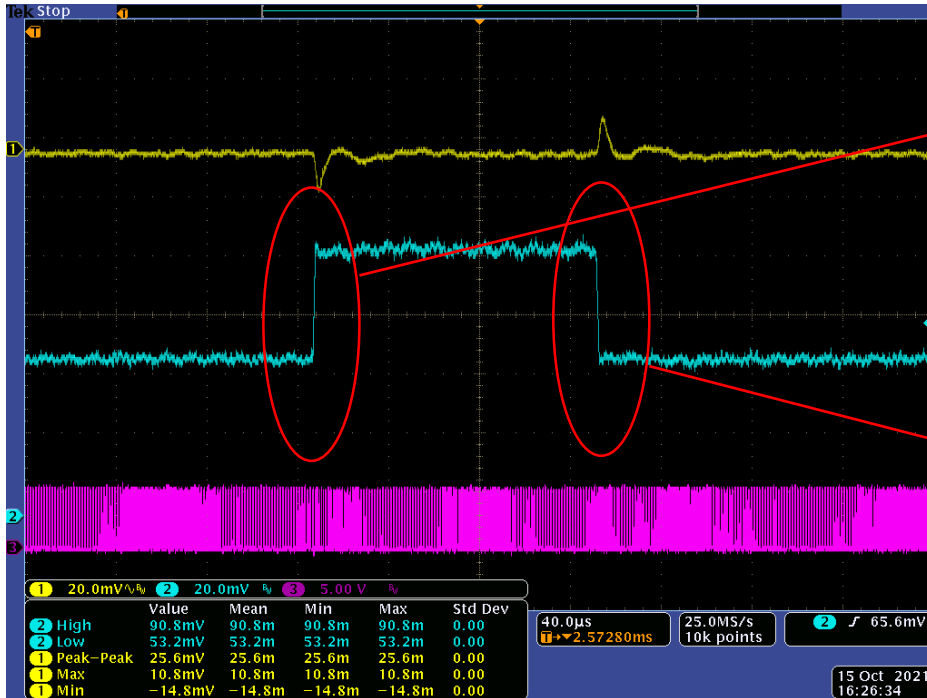
ZU1/2/3 Minimum Rails VCCINT Transient (MP5416 PMIC)

Step Load 2.1A → 3.15A → 2.1A, 10A/us

Vout

Io

SW



Vout ripple -1.7% (-14.8mV) to +1.3% (10.8mV) with load transient

ZU1/2/3 Minimum Rails (MP5416 PMIC)

	Vo	Ripple No load	Ripple Half load	Ripple Full load	Pwr ON Seq
MP5416-Buck1	0.85V	1.28mVpp	1.28mVpp	1.28mVpp	1 (0 ms)
MP5416-Buck2	1.8V	3.2mVpp	3.52mVpp	3.4mVpp	2 (2mS)
MP5416-LDO2	1.2V	0.8mVpp	1.0mVpp	1.2mVpp	3 (4mS)
MP5416-Buck3	1.5V	2.6mVpp	2.68mVpp	2.76mVpp	4 (6mS)
MP5416-Buck4	3.3V	5.4mVpp	5.28mVpp	5.6mVpp	5 (8mS)