TIDA-00553 Test Setup

- Hardware
  - bq40z60 EVM
  - Hewlett Packard E3631A power supply
  - Precision 8500 Electronic Load
  - A 4S2P Li-ion battery pack
- Software
  - bqStudio for logging
- Test
  - Complete the optimization cycle to update the Ra table and Qmax.
  - Charge the pack to full.
  - Discharge the pack to empty at a 4000mA rate, while logging data.

bq40z60 Gauging Accuracy

The bq40z60 provides very good gauging accuracy after the optimization cycle has been completed.

Cell configuration: 4S2P
Discharge current: 4A
Charge current: 800mA
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  - A 4S2P Li-ion battery pack
- Software
  - bqStudio to enable charger
- Test
  - A discharge current is applied when the charger is ON, the plot shows the moment when the discharge current is applied.

Charger Load Transient Response

Load Transient with charger 0A - 1A

![Graph 1](image1)

Load Transient with charger 1A - 3A

![Graph 2](image2)
Load Transient with charger 3A – 0.15A
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