TEST PROGRAM: **LEARN FUNCTION**

Objective:

This test is used to create and store a matrix for use by QuickTest. It can only be generated by Cadex C7x00 machines.

Procedure:

This test applies 3 full and partial charges, discharge and the Ohm test to profile the battery state of health and saves data into C-code as a matrix. The duration of this test is estimated with 10-24 hours depending on battery capacity and default setting.

Equipment:

Cadex C7x00

Result Sample:

Detailed report display (see next page) shows three decreasing capacity percentage as well as average cell voltage, analyser charge and discharge current, battery temperature and duration of service.
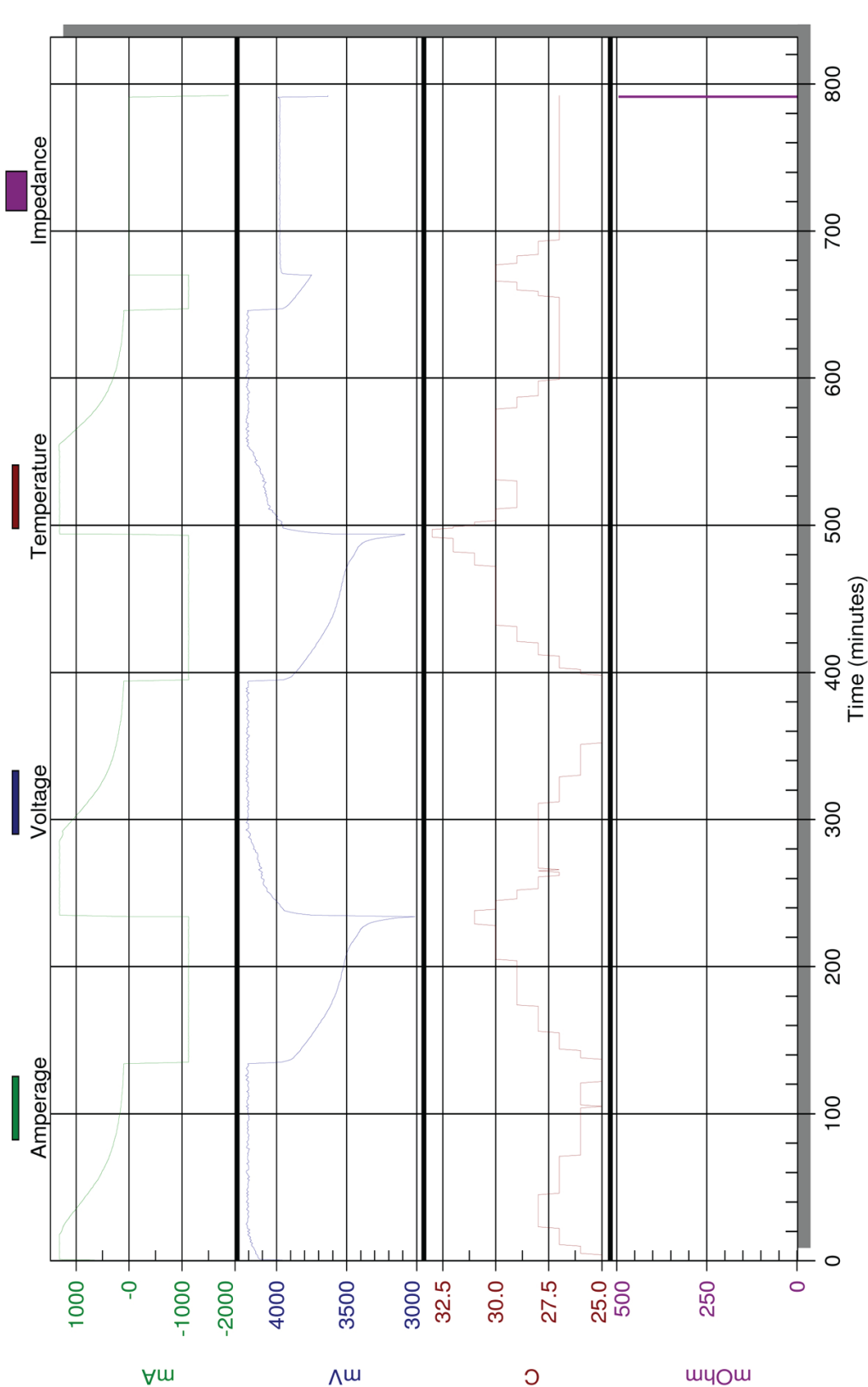
Limitation:

Please see the following limitation of Learn Test.

Cadex can't built a matrix successfully for batteries with conditions of:
- SLA batteries greater than 2Ah
- 1-cell and 2-cells NiCd and NiMH batteries
- Batteries with 800mΩ or above resistance (as tested by Cadex Ohm Test)
- Batteries that disconnect, reset and give failures while running the Learn test on Cadex
- Batteries that cannot accept a charge and discharge rate of at least 1C.

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Sample Report: CADEX

Total points: 798; Displayed: 798
Service started: 3/14/2012 8:03:37 AM
Service ended: 3/14/2012 9:15:50 PM
Program: Learn
Printed: 1/28/2016 12:11:04 PM

Service ID: 2679
Battery ID:
Port #: 6
Station #: 4