Hall C HV Module Testing Project Status Report July 17, 2019

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1. Hall C has delivered 3 CAEN A1535 modules to be tested Test parameters

Voltage dwell time ~16 seconds 30 voltage steps (50 to 1500) 1500 V @ 501 Kohms is ~3 mA (Imax for A1535) Ramp rate is set to 100 V/s

- 1.1. Module 0556 (A1535P)
 - 1.1.1. Channel 22 will not ramp.
- 1.2. Module 775 (A1535N)
 - 1.2.1. Inconsistent ramping issues. On first test, channels 1, 10, 13, and 22 failed during ramp up. These were retested individually, and ramped up to 1500V before tripping on over current (> 3 mA).
- 1.3. Module 776 (A1535N)
 - 1.3.1.Inconsistent ramping issues. On first test, channels 8 and 10 failed during ramp up. On a second test 8 and 10 passed, but 4, 21, and 23 failed. 4 failed on an individual retest of the channel.

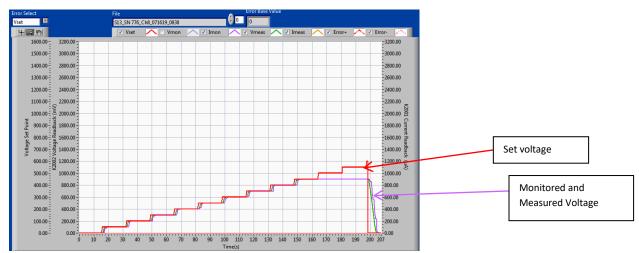


Figure 1. Module 776 Channel 8 fails to ramp past 450V on demand.

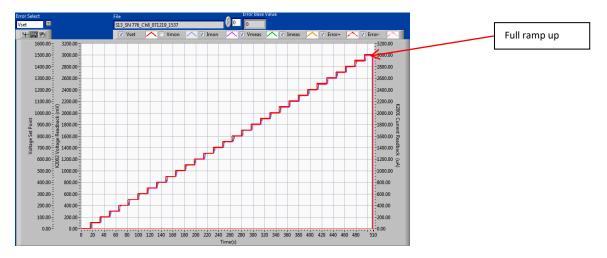


Figure 2. Retest of Module 776 Channel 8