

# Status of NPS CAEN Card Testing Analysis with Excel

# George Jacobs Detector Support Group 06/15/2020



#### Contents

- CAEN Overview
- Data Analysis
- Status of Testing
- Conclusion





#### Overview

- Testing 34 CAEN Model 7030TN High Voltage Cards
- 16 cards tested
  - Analyzing data using Excel
  - 11 data sets analyzed for average voltage under load

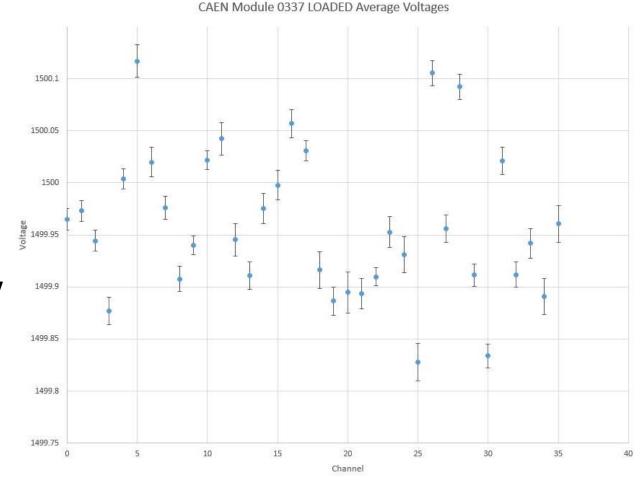




### CAEN Card #0337 Average Voltage Under Load

- Set @ 1500 V
- Readback of average voltage plotted
- Max. ∆V from set value < 0.2 V</li>
- Data for other boards look similar

6/25/2020



### **Status of Testing**

#	Serial #	Card Type	Stability 1500 V	\$	<
1	314	A7030TN			
2	317				
3	327				
4	336				
5	309				
6	316				
7	339				
8	128		x	V	
9	173		x	V	
10	184		x	V	
11	256		x	V	
12	262		x	V	
13	299		x		
14	301		x	V	
15	302		x	V	
16	304		х	V	
17	324		x	V	
18	325		x		
19	326		x	V	
20	337		x	V	
21	338		x		
22	347		x		
23	349		x		
24	313				
25	350				
26	351				
27	352				
28	353				
29	354				
30	355				
31	356				
32	358				
33	359				
34					

The green box indicates that the test data has been analyzed.



The "x" indicates that

the test has been

completed.

#### **Detector Support Group**



## Conclusion

- 16 of 34 cards tested using CAEN GECO with a load box
- Data analysis using Excel
  - Completed 11 of 16 cards tested
- Testing recommenced on 15 June, 2020
- DSG is making good progress



