PQSIM 200

A POWER QUALITY EVENT GENERATOR

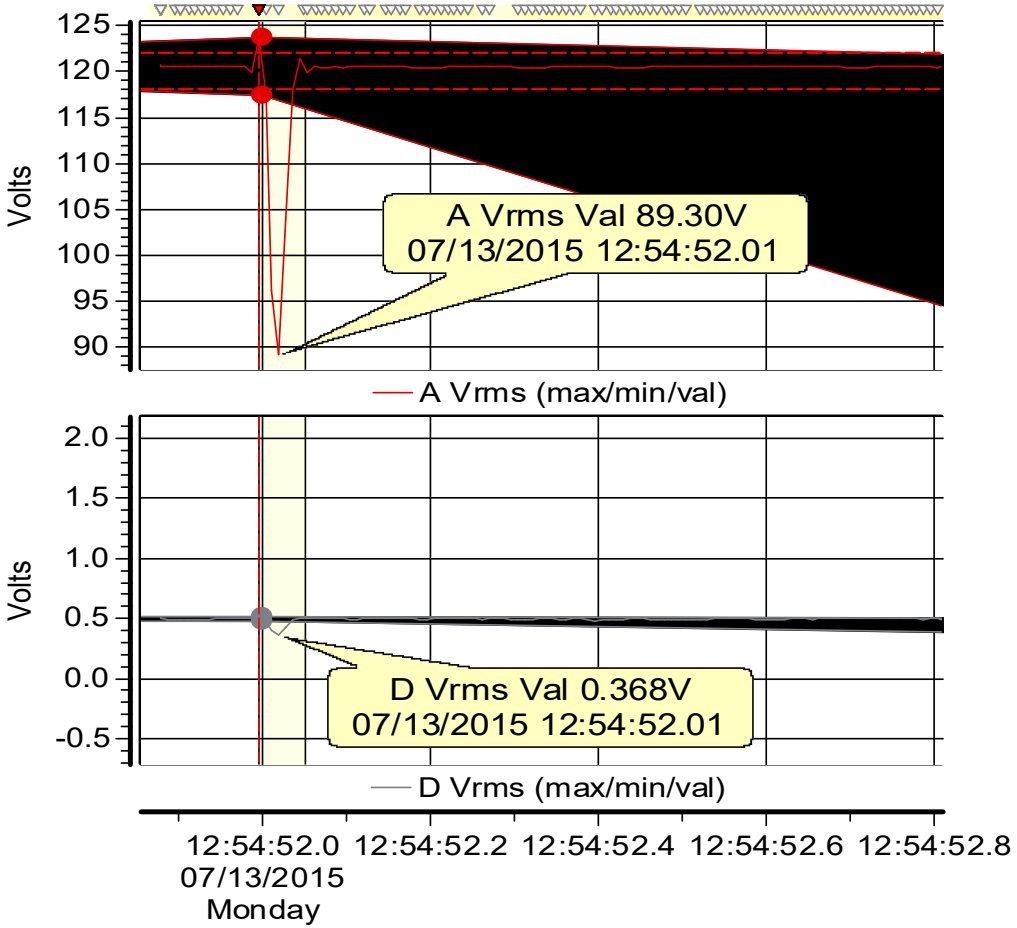
POWER QUALITY INC USA/POWER QUALITY THAILAND LTD

AUTO SEQUENCE OF PQ EVENTS

- When the Auto Sequence button is selected the PQsim will generate a series of 10 PQ events.
- The events are scheduled to be 1 event per minute to allow some time in the data. It is recommended the instrument under test interval be set to 1 minute.

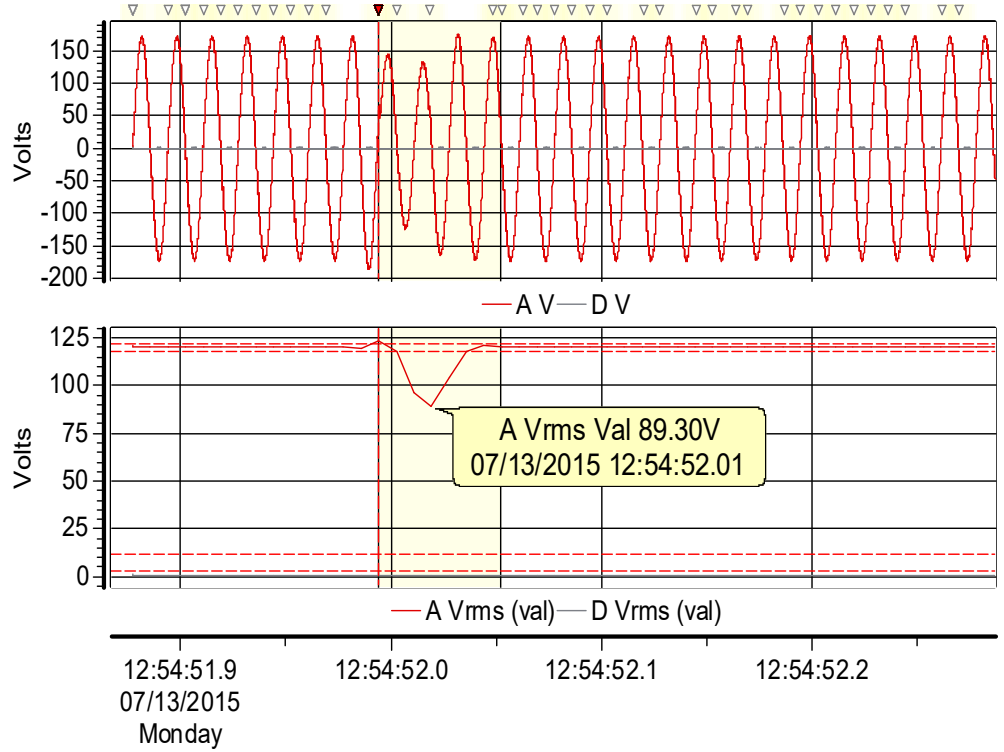
AUTO SEQUENCE EVENT #1 V SAG 50%

Event 1 Voltage sag to 90v



Event #12 at 07/13/2015 12:54:51.994
AVrms Instantaneous Sag

Event # 1 Details/Waveforms

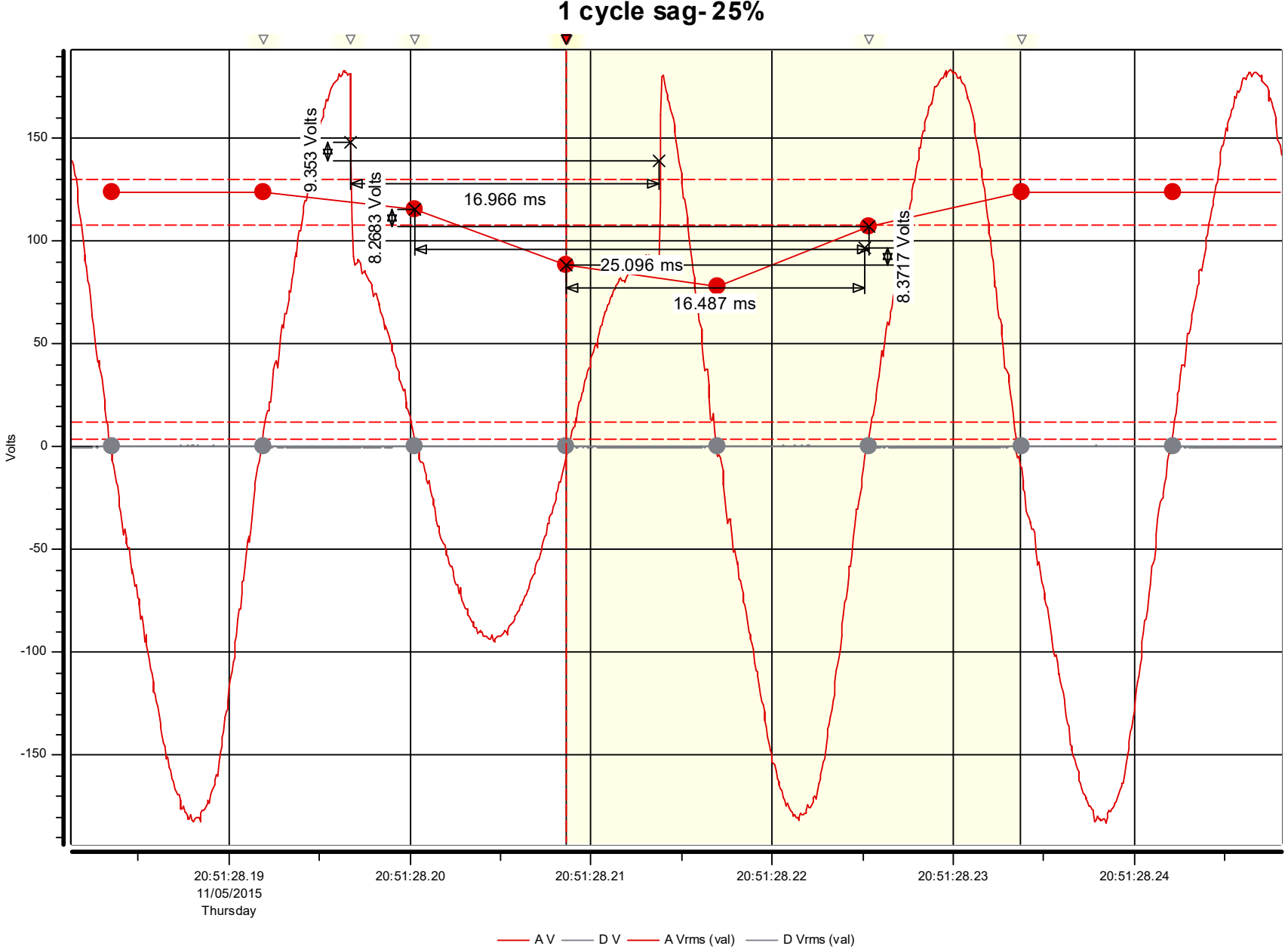


Event #12 at 07/13/2015 12:54:51.994
AVrms Instantaneous Sag
CATEGORY: Short Duration Instantaneous Sag

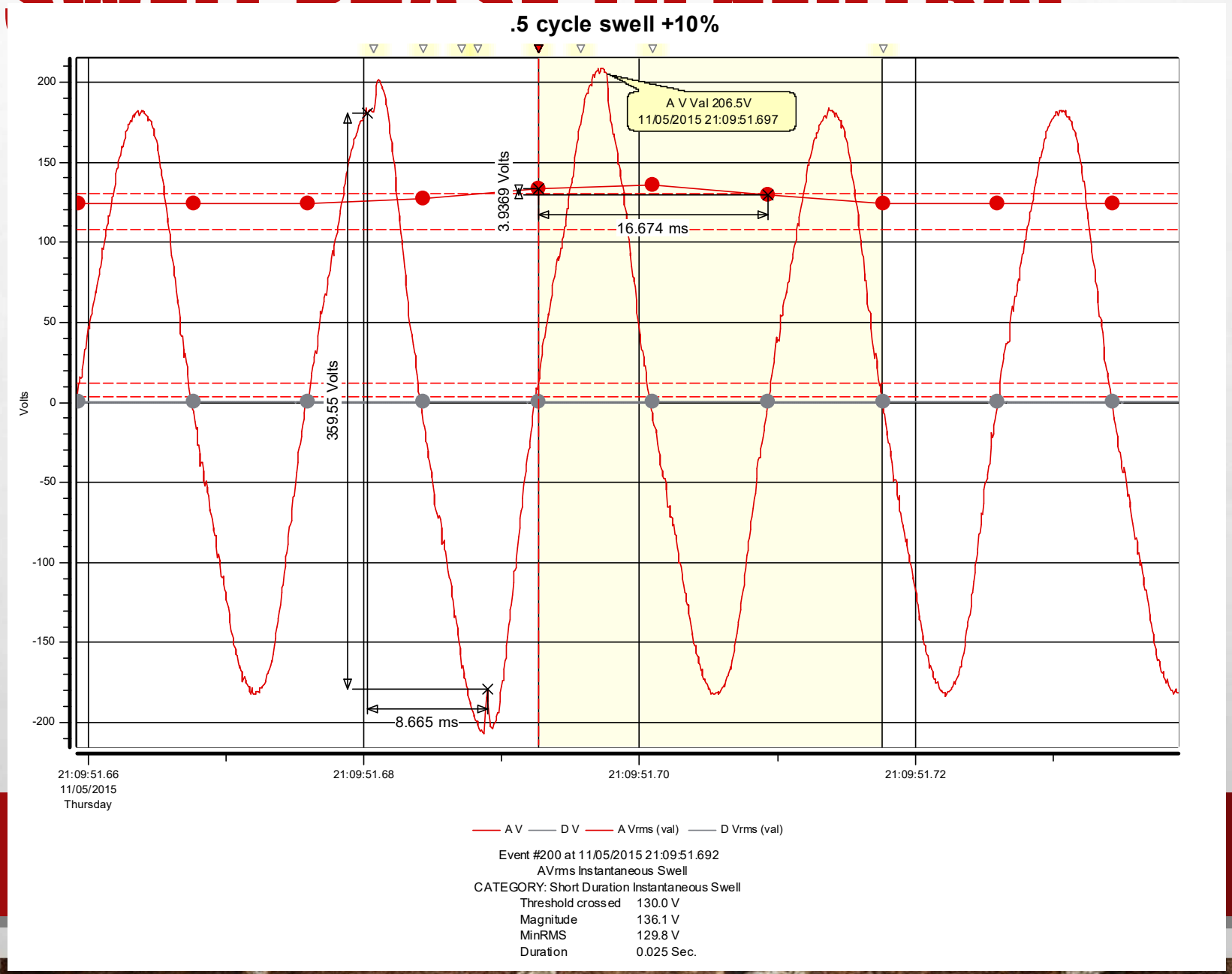
Threshold crossed	118.0 V
Magnitude	89.3 V
MaxRMS	123.6 V
Duration	0.0584 Sec.

SAG 25%
1 CYCLE

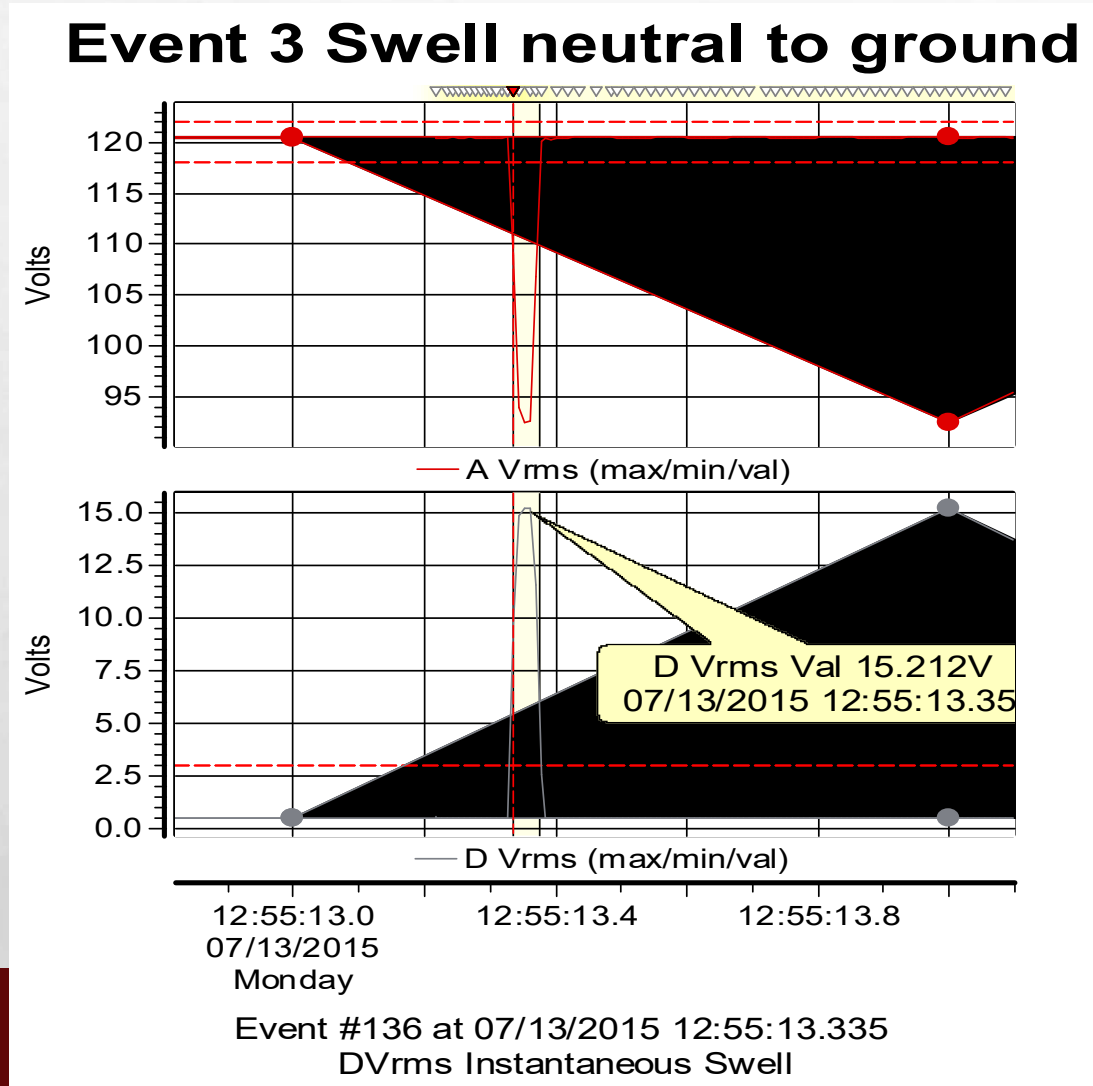
- 25 MILLESECONDS
- PER IEC

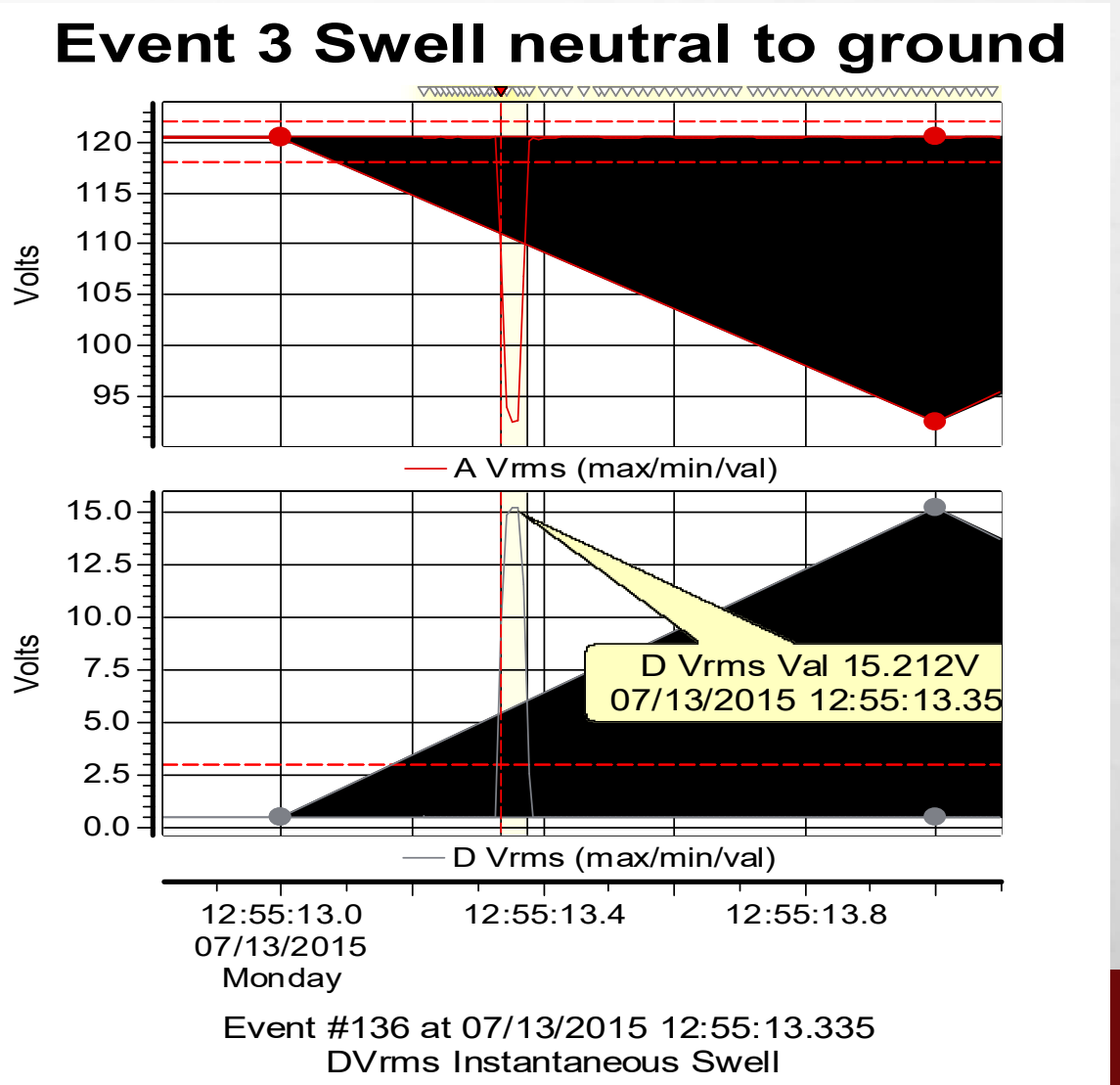


0.5 CYCLE SWELL PHASE TO NEUTRAL

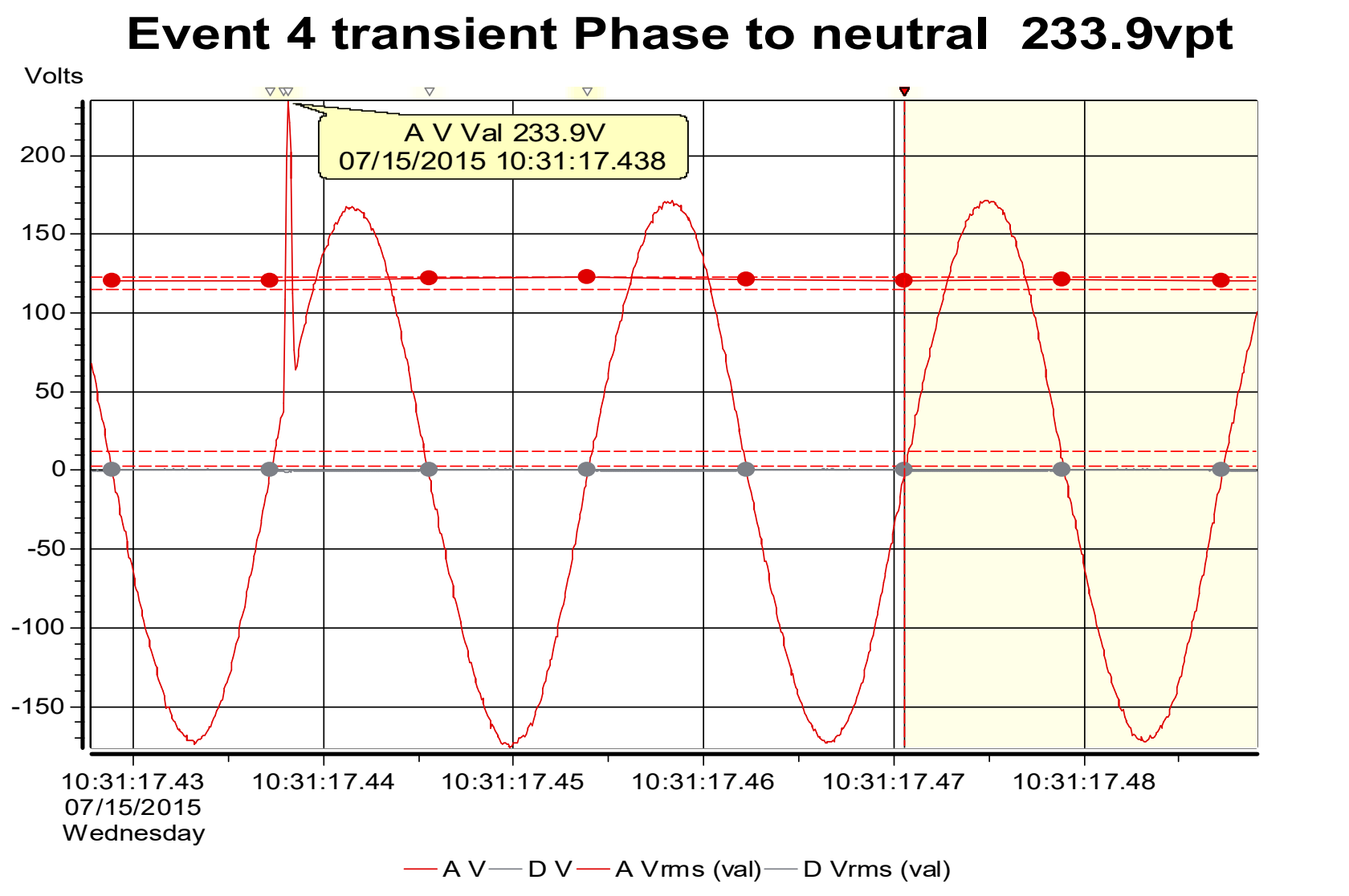


EVENT # 2 VOLTAGE SWELL NEUTRAL TO GROUND

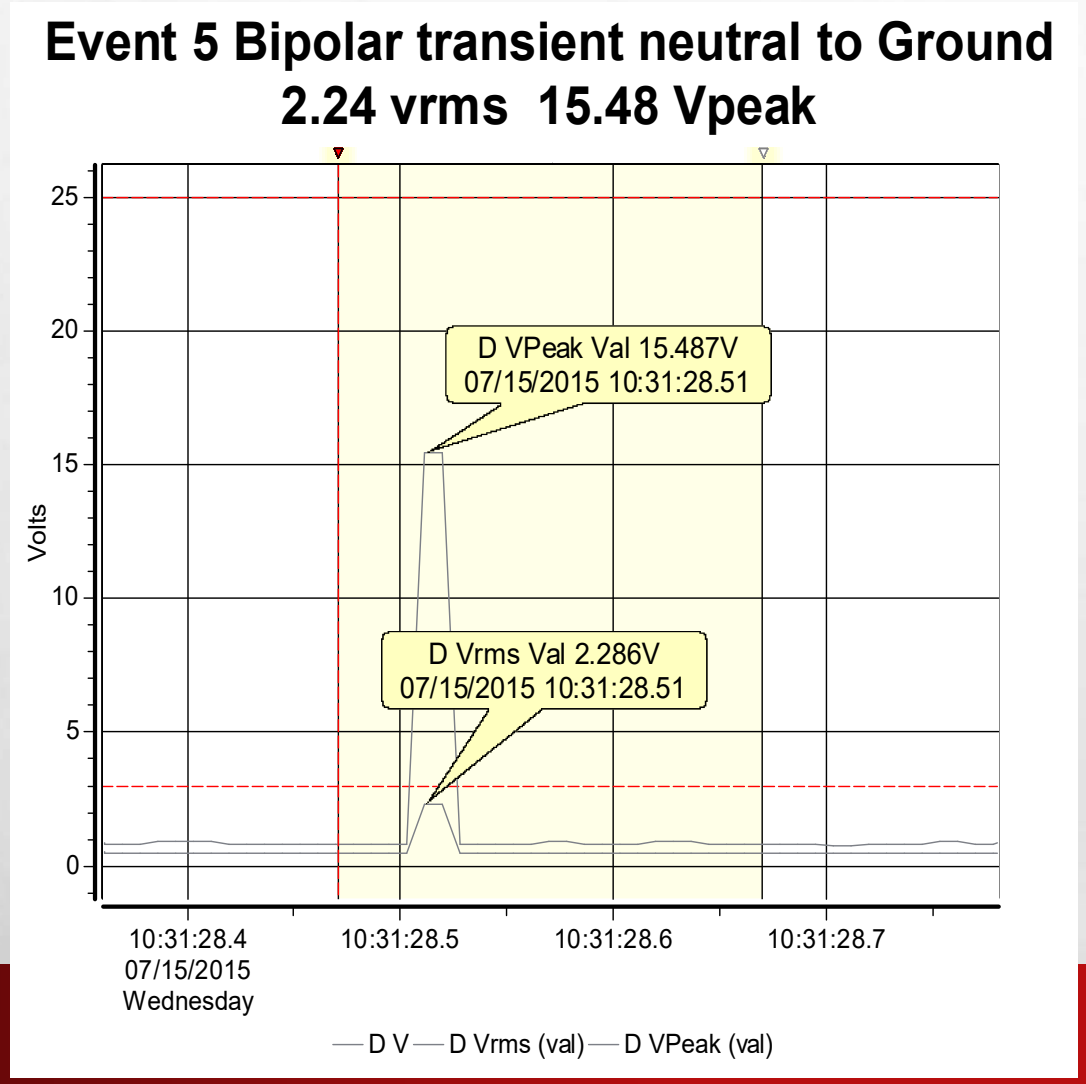




EVENT # 3 UNIPOLAR TRANSIENT

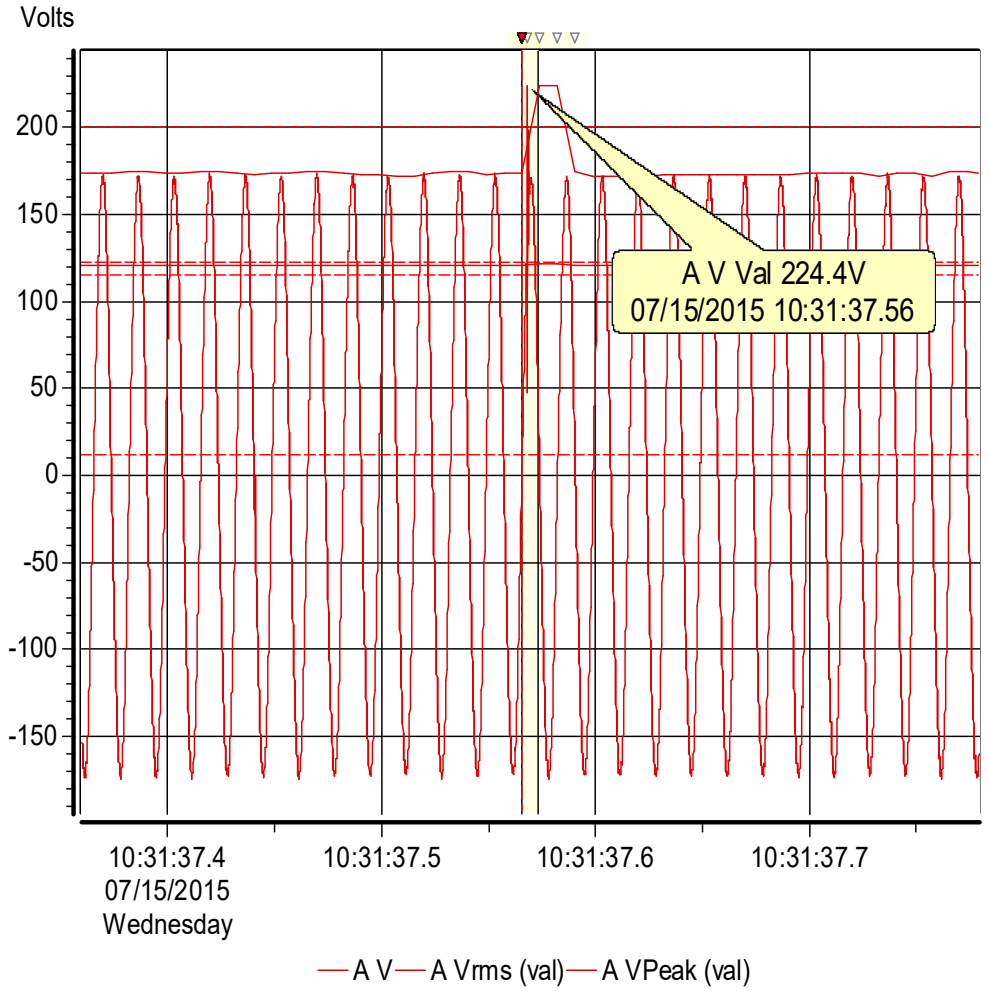


EVENT # 5 NEUTRAL TO GROUND TRANSIENT

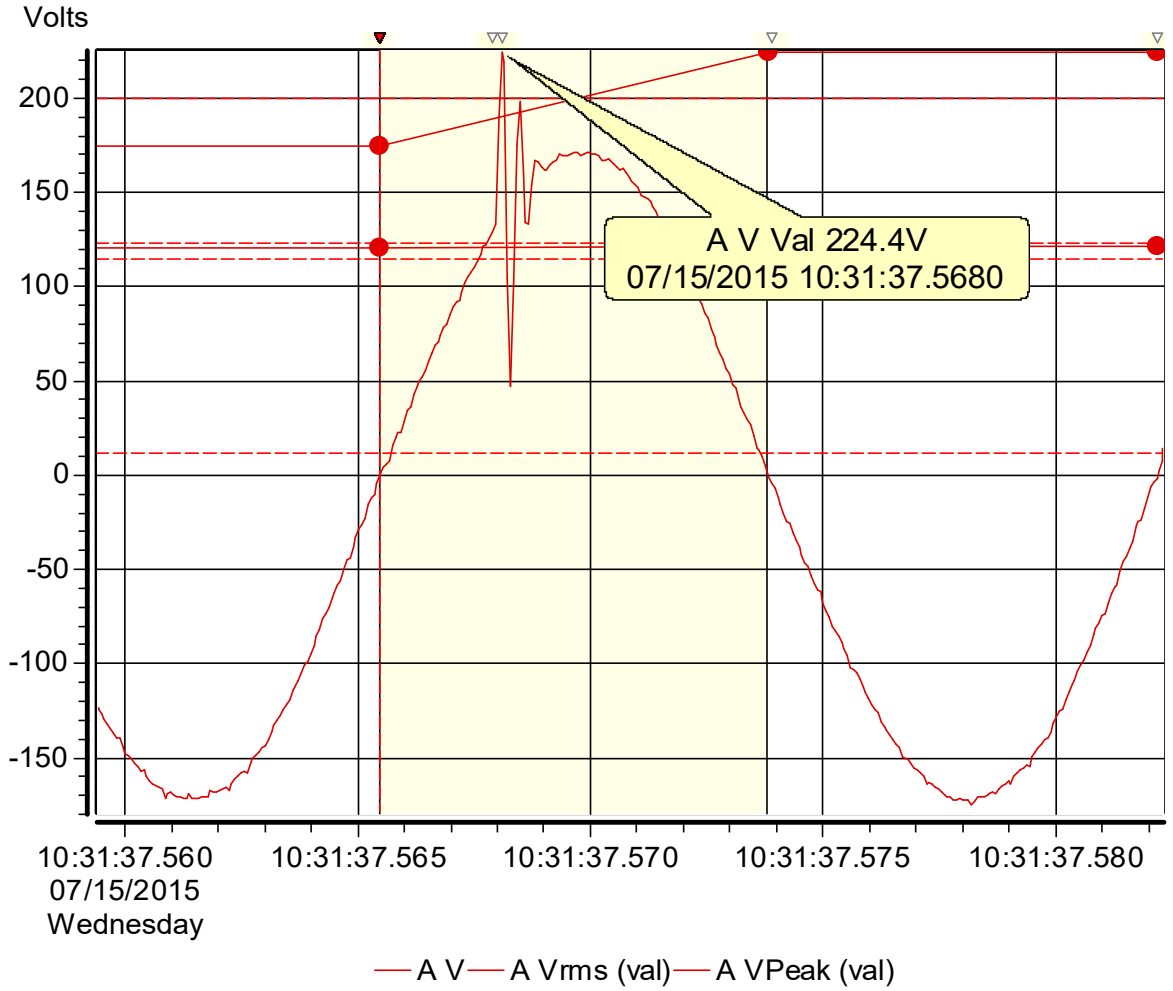


EVENT # 6 BIPOLAR TRANSIENT PHASE TO NEUTRAL

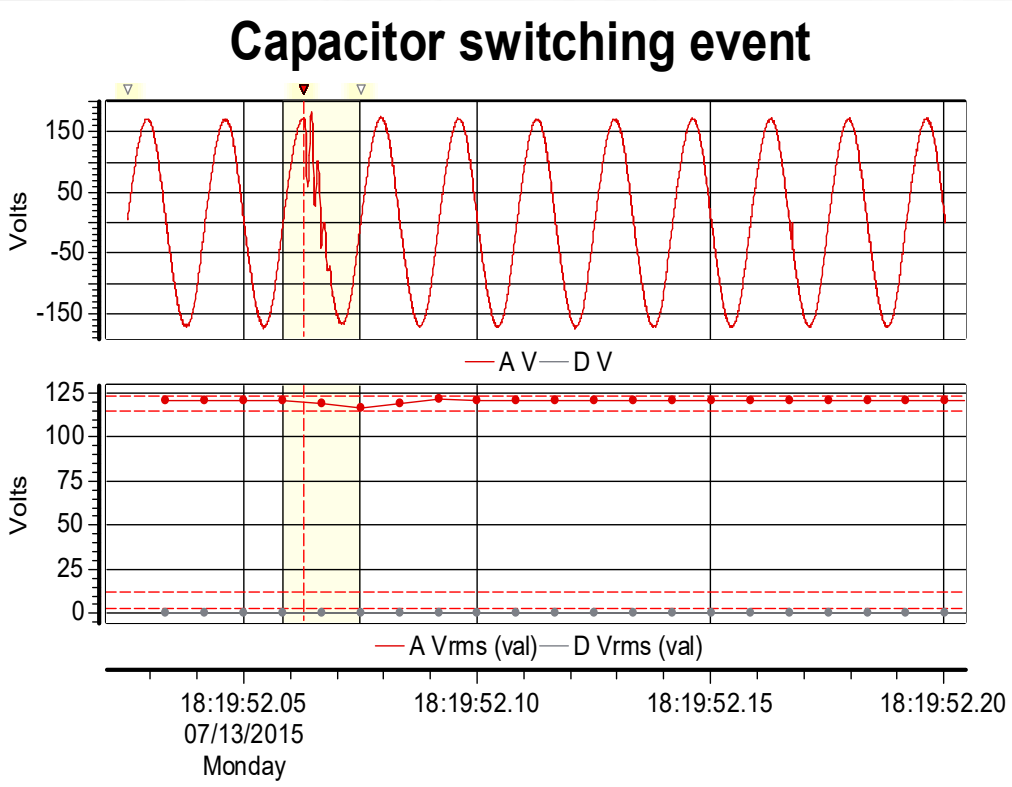
Event 6 Bipolar transient Phase to neutral 224 Vpeak



Event 6 Bipolar transient Phase to neutral 224 Vpeak



EVENT # 7 CAP SWITCHING TRANSIENT

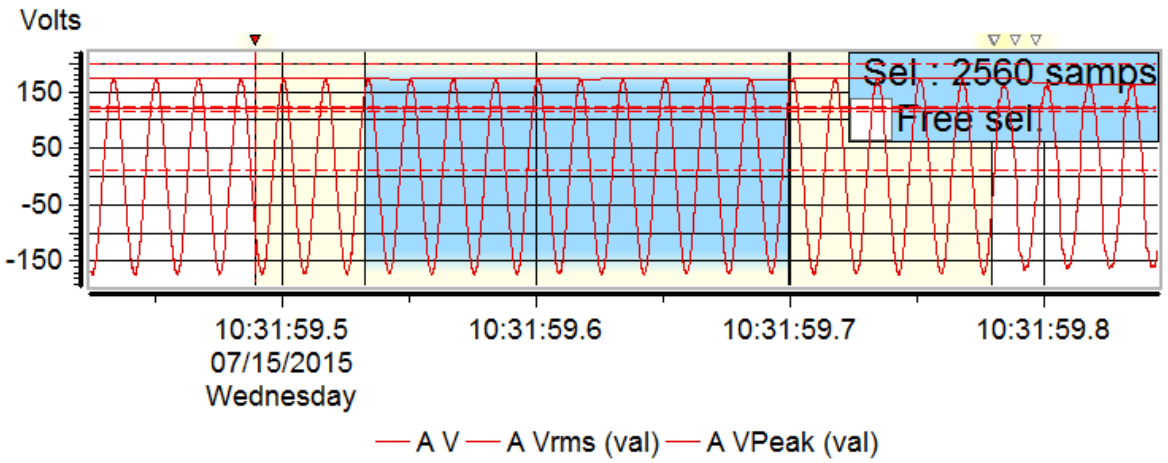


Event #28 at 07/13/2015 18:19:52.058
AV Mild Cap Switch Neg 1/2 Cyc
Phase 205.3 Deg

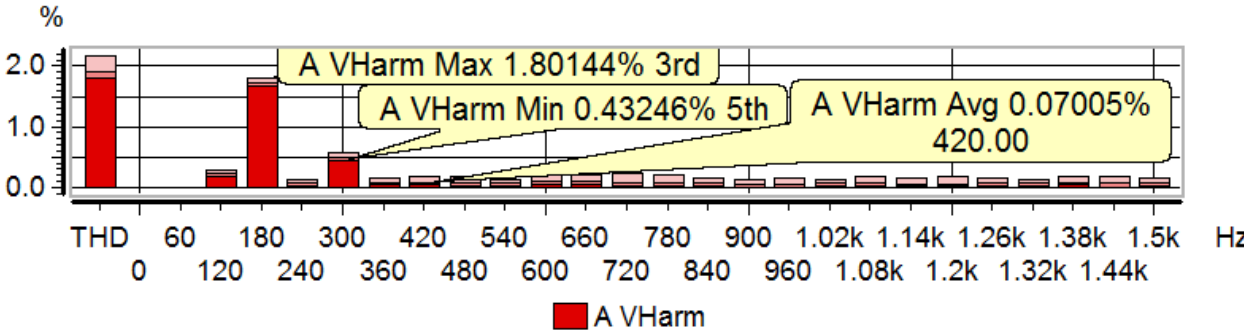
	A	B	C	D	A-B	B-C	C-A
Vrms	118.6	0.08989	0.08056	0.4805	118.6	0.1364	118.5
VPeak	182.7	0.2072	0.2060	0.8300			
Irms	1.392	0.000328	0.000409	0.002612			
IPeak	2.153	0.000838	0.001117	0.009783			

EVENT # 8. ODD HARMONICS

Event # 8 Odd harmonic increase

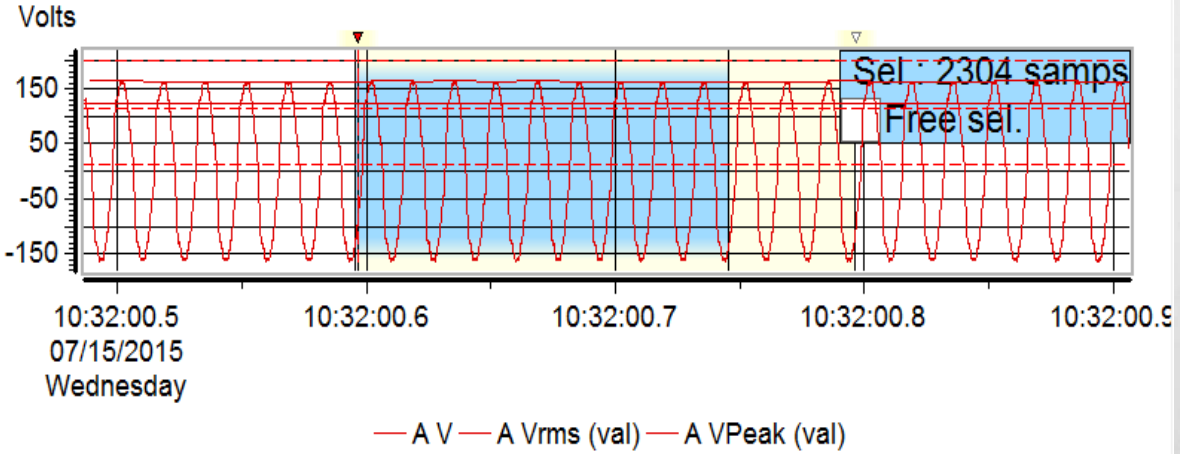


Waveform harmonics before event

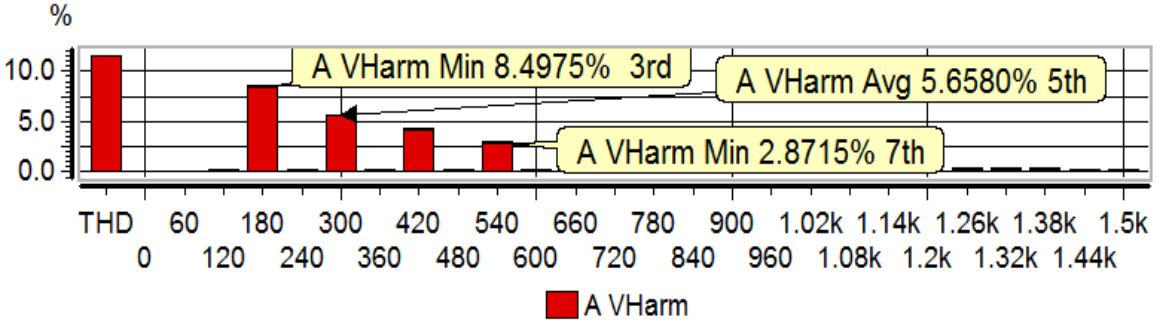


	AV	DV	AI
RMS	109.68	N/A	0.02
FND	100.00	N/A	0.00
DC	0.02	N/A	0.00
THD	1.90	N/A	0.01

Event # 8 Odd harmonic increase



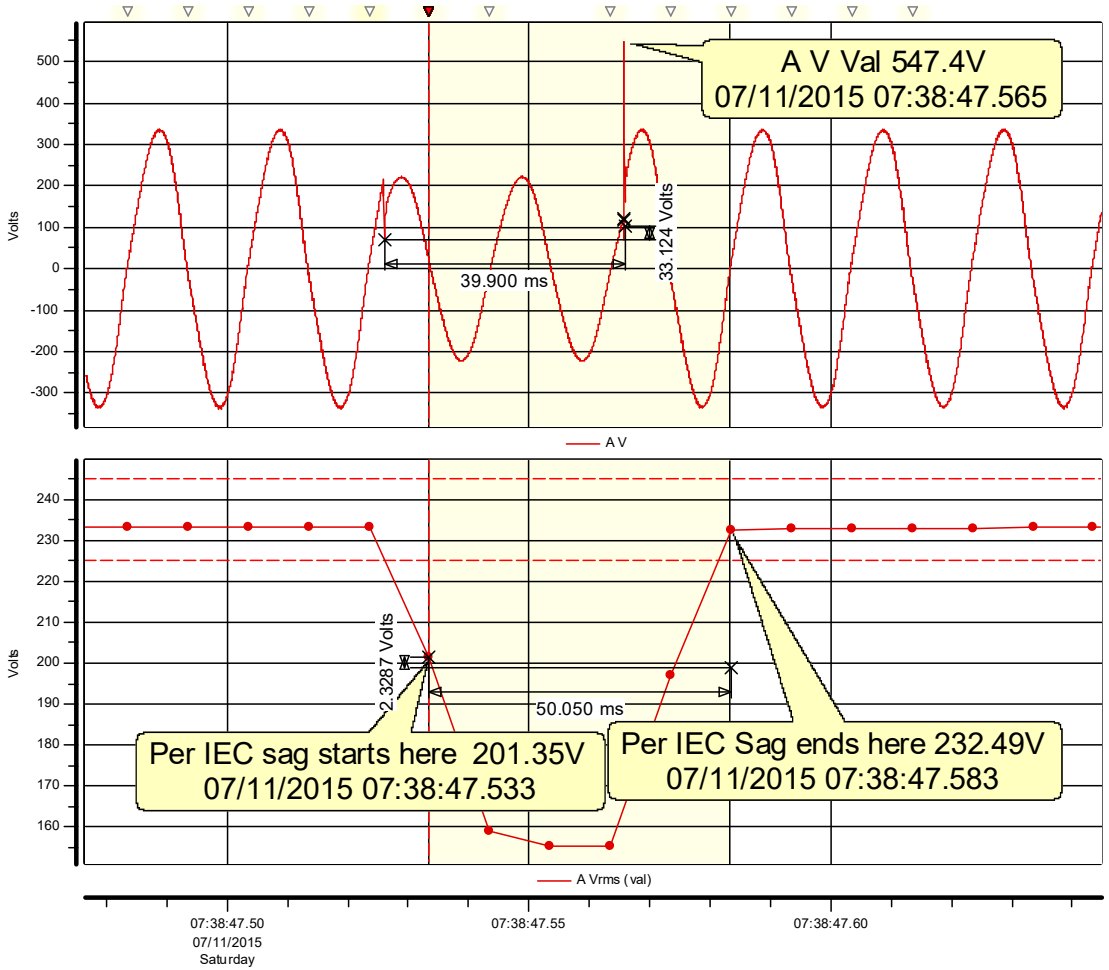
Voltage Waveform harmonics during the even



	AV	DV	AI
RMS	121.55	N/A	0.02
FND	100.00	N/A	0.01
DC	-0.00	N/A	0.00
THD	11.56	N/A	0.01

2 CYCLE VOLTAGE SAG WITH TRANSIENT

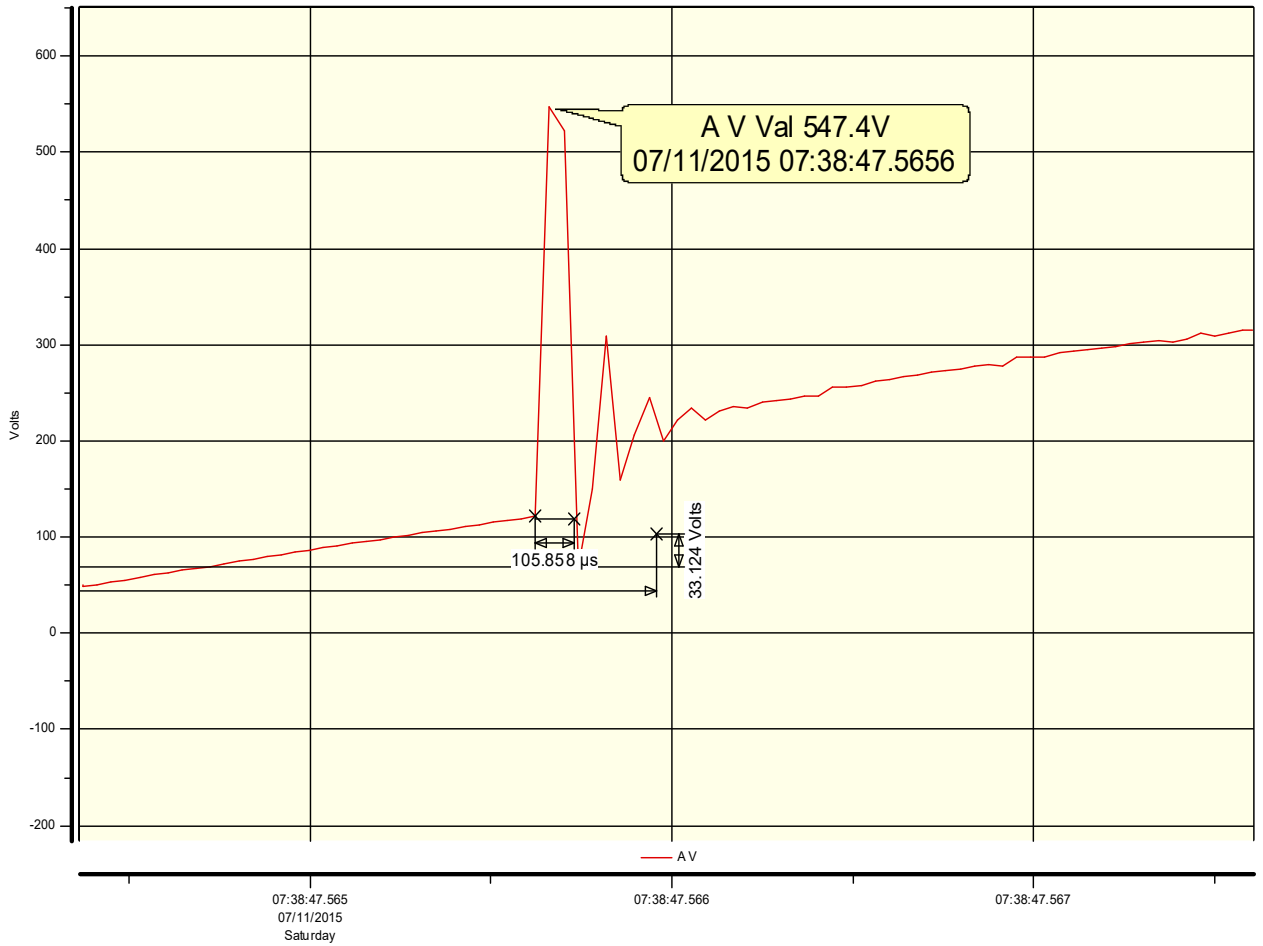
High Speed transient at the end of the sag



Event #162 at 07/11/2015 07:38:47.533
AVrms Instantaneous Sag
CATEGORY: Short Duration Instantaneous Sag

Threshold crossed	225.0 V
Magnitude	155.4 V
MaxRMS	201.3 V
Duration	0.05002 Sec.

High Speed transient at the end of the sag



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CATEGORY: Short Duration Instantaneous Sag

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