

Header Report

Start: Nov 08, 2011 14:55:49

Stop: Nov 08, 2011 15:38:13

Duration: 0 days, 00:42:24

Firmware Version: 4.44 Unit Type: Eagle 440

Software Version: 1.51 Serial No.: 61733

Circuit Type: Wye

Voltage Scale Factor: x1.00

Current Scale Factor: x1.00

Current Range: 10 Amps

Interval Time: 10 seconds

[Abnormal Voltage](#): 3 events

[Significant Change](#): 5 events

[Flicker](#): 76 events

[Event Change](#): 4 events

[Waveform Capture](#): 2 events

Interval Data Recorded: Ch1 Ch2 Ch3 Ch4

[Voltage](#) Yes Yes Yes No

[Current](#) Yes Yes Yes No

Real Power No No No No

Apparent Power No No No No

Reactive Power No No No No

Power Factor No No No No

Phase Angle No No No No

Displacement Power Factor No No No No

Voltage THD No No No No

Current THD No No No No

Frequency No No No No

IFL No No No No

Pst No No No No

Harmonic Interval Data:

Voltage Magnitude: Ch1 Ch2 Ch3 Ch4

1st Yes Yes Yes No

3rd Yes Yes Yes No

5th Yes Yes Yes No

7th Yes Yes Yes No

9th Yes Yes Yes No
 11th Yes Yes Yes No
 13th Yes Yes Yes No

Voltage Phase: **Ch1 Ch2 Ch3 Ch4**

1st Yes Yes Yes No
 3rd Yes Yes Yes No
 5th Yes Yes Yes No
 7th Yes Yes Yes No
 9th Yes Yes Yes No
 11th Yes Yes Yes No
 13th Yes Yes Yes No

Current Magnitude: **Ch1 Ch2 Ch3 Ch4**

Current Phase: **Ch1 Ch2 Ch3 Ch4**

Abnormal Voltage Report

Start: Nov 08, 2011 14:55:49

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Interval Time: 10 seconds

Abnormal Voltage Settings

<u>Channel</u>	<u>Standard</u>	<u>Custom</u>	Custom	Custom
			<u>Nominal 1</u>	<u>Nominal 2</u>
1	Yes	No	10	230
2	Yes	No	10	230
3	Yes	No	10	230
4	Yes	No	10	230

Selected Nominal Settings

<u>Channel</u>	Low V High V		Trigger	
	<u>(+/-)</u>	<u>(+/-)</u>	<u>Nominal</u>	<u>Duration (Sec)</u>
1	6	12	120	5
2	6	12	120	5
3	6	12	120	5

Abnormal Voltage Events

<u>Channel</u>	<u>Range</u>	<u>Date</u>	<u>Time</u>
1	Low	11/08/11	15:21:58
1	High	11/08/11	15:21:58
2	Low	11/08/11	14:55:54
2	High	11/08/11	14:55:54
3	Low	11/08/11	15:21:53
3	High	11/08/11	15:21:53

Significant Change Report

Start: Nov 08, 2011 14:55:49

Stop: Nov 08, 2011 15:38:13

Duration: 0 days, 00:42:24

Firmware Version: 4.44 Unit Type: Eagle 440

Software Version: 1.51 Serial No.: 61733

Circuit Type: Wye

Voltage Scale Factor: x1.00

Current Scale Factor: x1.00

Current Range: 10 Amps

Interval Time: 10 seconds

Threshold: 3.0 Volts

<u>Channel</u>	<u>Date</u>	<u>Time</u>	<u>Voltage</u>
1	11/08/11	15:21:54	0.0
2	11/08/11	14:55:50	2.6
2	11/08/11	15:14:05	11.5
2	11/08/11	15:14:06	2.8
3	11/08/11	15:21:49	1.9

Flicker Report

Start: Nov 08, 2011 14:55:49

Stop: Nov 08, 2011 15:38:13

Duration: 0 days, 00:42:24

Firmware Version: 4.44 Unit Type: Eagle 440

Software Version: 1.51 Serial No.: 61733

Circuit Type: Wye

Voltage Scale Factor: x1.00

Current Scale Factor: x1.00

Current Range: 10 Amps

Interval Time: 10 seconds

Channel 1 Report

<u>Date</u>	<u>Time</u>	<u>Tolerance</u>	<u>Time Span</u>	<u>Freq Limit</u>	<u>Events</u>
11/08/11	15:23:58	0.9%	10 seconds	5	6
11/08/11	15:24:00	2.2%	15 minutes	10	20
11/08/11	15:24:01	1.2%	1 minute	10	11
11/08/11	15:24:08	0.9%	10 seconds	5	10
11/08/11	15:24:18	0.9%	10 seconds	5	10
11/08/11	15:24:28	0.9%	10 seconds	5	7
11/08/11	15:24:54	0.9%	10 seconds	5	6
11/08/11	15:25:00	2.7%	30 minutes	10	59
11/08/11	15:25:01	1.2%	1 minute	10	39
11/08/11	15:25:04	0.9%	10 seconds	5	9
11/08/11	15:25:45	0.9%	10 seconds	5	6
11/08/11	15:25:55	0.9%	10 seconds	5	6
11/08/11	15:26:01	1.2%	1 minute	10	20

Channel 2 Report

<u>Date</u>	<u>Time</u>	<u>Tolerance</u>	<u>Time Span</u>	<u>Freq Limit</u>	<u>Events</u>
11/08/11	14:55:59	0.9%	10 seconds	5	6
11/08/11	14:56:09	0.9%	10 seconds	5	8
11/08/11	14:56:19	0.9%	10 seconds	5	10
11/08/11	14:56:39	0.9%	10 seconds	5	6
11/08/11	14:56:49	0.9%	10 seconds	5	6
11/08/11	14:56:49	1.2%	1 minute	10	37
11/08/11	14:56:59	0.9%	10 seconds	5	10

11/08/11 14:57:45	0.9%	10 seconds	5	6
11/08/11 14:57:49	1.2%	1 minute	10	23
11/08/11 14:57:55	0.9%	10 seconds	5	9
11/08/11 14:58:05	0.9%	10 seconds	5	10
11/08/11 14:58:15	0.9%	10 seconds	5	7
11/08/11 14:58:25	0.9%	10 seconds	5	6
11/08/11 14:58:46	0.9%	10 seconds	5	6
11/08/11 14:58:49	1.2%	1 minute	10	41
11/08/11 14:58:56	0.9%	10 seconds	5	10
11/08/11 14:59:06	0.9%	10 seconds	5	10
11/08/11 14:59:16	0.9%	10 seconds	5	8
11/08/11 14:59:36	0.9%	10 seconds	5	6
11/08/11 14:59:46	0.9%	10 seconds	5	12
11/08/11 14:59:49	1.2%	1 minute	10	46
11/08/11 14:59:56	0.9%	10 seconds	5	11
11/08/11 15:00:06	0.9%	10 seconds	5	6
11/08/11 15:00:16	0.9%	10 seconds	5	10
11/08/11 15:00:26	0.9%	10 seconds	5	10
11/08/11 15:00:36	0.9%	10 seconds	5	13
11/08/11 15:00:49	1.2%	1 minute	10	49
11/08/11 15:09:59	0.9%	10 seconds	5	6
11/08/11 15:10:00	2.2%	15 minutes	10	203
11/08/11 15:14:07	0.9%	10 seconds	5	8
11/08/11 15:14:09	1.2%	1 minute	10	13
11/08/11 15:14:17	0.9%	10 seconds	5	24
11/08/11 15:14:27	0.9%	10 seconds	5	28
11/08/11 15:14:37	0.9%	10 seconds	5	27
11/08/11 15:14:47	0.9%	10 seconds	5	27
11/08/11 15:14:57	0.9%	10 seconds	5	28
11/08/11 15:15:07	0.9%	10 seconds	5	28
11/08/11 15:15:09	1.2%	1 minute	10	163
11/08/11 15:15:17	0.9%	10 seconds	5	26
11/08/11 15:15:27	0.9%	10 seconds	5	28
11/08/11 15:15:37	0.9%	10 seconds	5	27
11/08/11 15:15:47	0.9%	10 seconds	5	10
11/08/11 15:16:09	1.2%	1 minute	10	88
11/08/11 15:21:51	0.9%	10 seconds	5	6
11/08/11 15:21:53	1.2%	1 minute	10	11
11/08/11 15:22:01	0.9%	10 seconds	5	13
11/08/11 15:22:53	1.2%	1 minute	10	15

Channel 3 Report

<u>Date</u>	<u>Time</u>	<u>Tolerance</u>	<u>Time Span</u>	<u>Freq Limit</u>	<u>Events</u>
11/08/11	15:21:52	0.9%	10 seconds	5	8
11/08/11	15:21:54	1.2%	1 minute	10	12
11/08/11	15:22:00	2.2%	15 minutes	10	13
11/08/11	15:23:38	0.9%	10 seconds	5	6
11/08/11	15:23:43	1.2%	1 minute	10	12
11/08/11	15:23:48	0.9%	10 seconds	5	7
11/08/11	15:23:58	0.9%	10 seconds	5	10
11/08/11	15:24:08	0.9%	10 seconds	5	10
11/08/11	15:24:18	0.9%	10 seconds	5	10
11/08/11	15:24:28	0.9%	10 seconds	5	10
11/08/11	15:24:38	0.9%	10 seconds	5	9
11/08/11	15:24:43	1.2%	1 minute	10	58
11/08/11	15:25:00	2.7%	30 minutes	10	89
11/08/11	15:25:06	0.9%	10 seconds	5	6
11/08/11	15:25:43	1.2%	1 minute	10	12
11/08/11	15:37:00	2.2%	15 minutes	10	83

Channel 4 Report

No flicker events were recorded.

Event Change Table Report

Start: Nov 08, 2011 14:55:49

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Software Version: 1.51 Serial No.: 61733

Circuit Type: Wye

Voltage Scale Factor: x1.00

Current Scale Factor: x1.00

Current Range: 10 Amps

Interval Time: 10 seconds

Nominal Threshold Bands Minimum Event Time

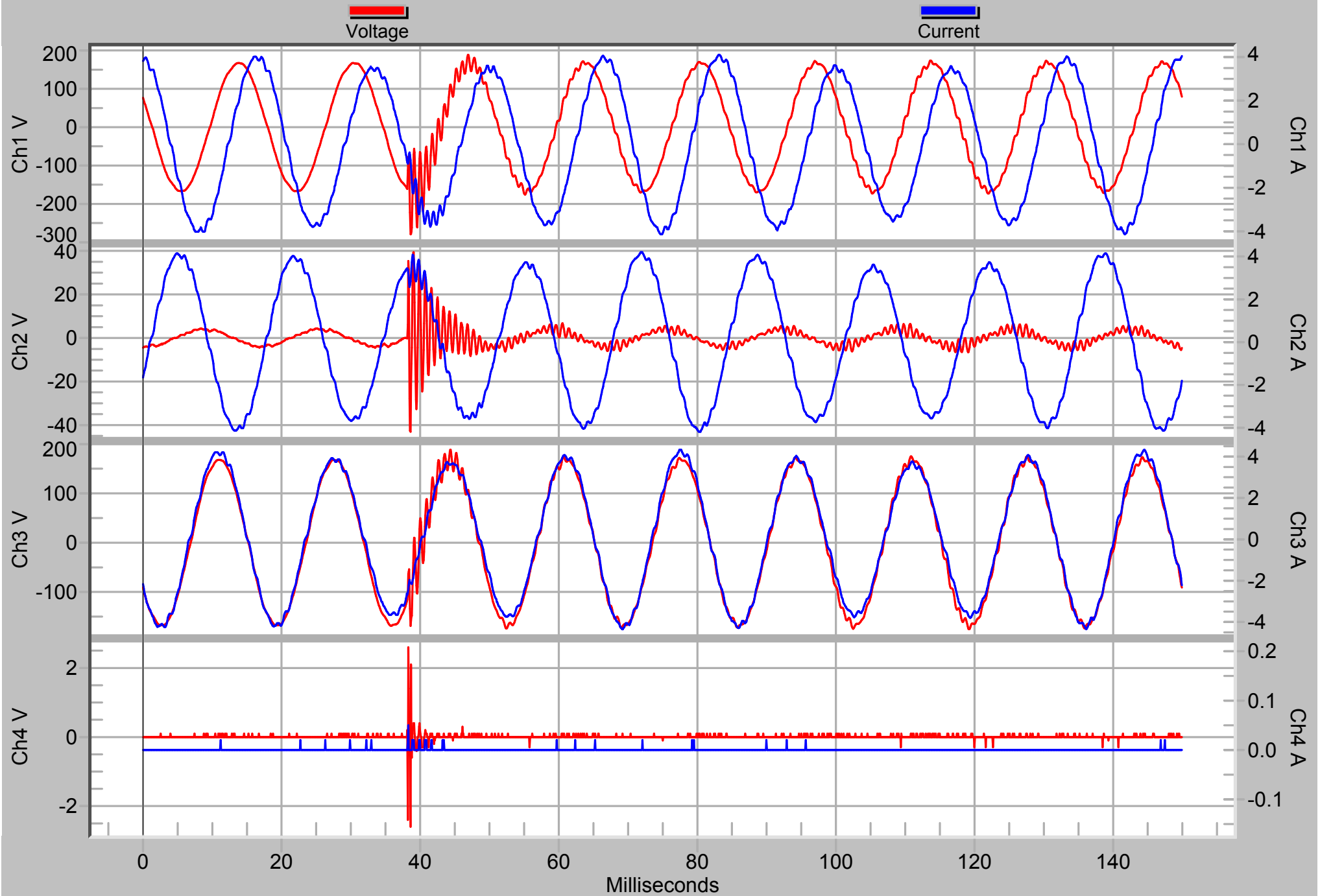
	<u>Voltage</u>	<u>(+/- Volts)</u>	<u>Cycles</u>
Channel 1	120.0	6.0	10
Channel 2	120.0	6.0	10
Channel 3	120.0	6.0	10
Channel 4	120.0	6.0	10

Super				Cycle	Voltage	Current					
Event	Date	Time	Channel	Duration	S	Max	Min	Max	Min	Prev	Post
1	11/08/11	14:55:49:06	2	65734	-	118.1	122.9	2.90	2.40	2.50	2.70
						2.6	11.5	2.90	2.50	2.60	2.70
						118.6	121.1	3.00	2.60	2.60	2.70
						0.0	0.0	0.00	0.00	0.00	0.00
1	11/08/11	15:14:04:32	2	86966	+	122.9	0.0	2.90	0.00	2.70	0.00
						11.5	0.0	2.90	0.00	2.70	0.00
						121.1	0.0	3.00	0.00	2.80	0.00
						0.3	0.0	0.00	0.00	0.00	0.00
1	11/08/11	15:21:48:31	3	59121	-	118.4	0.0	0.00	0.00	0.00	0.00
						3.1	0.0	0.60	0.00	0.60	0.00
						92.1	0.0	3.00	0.00	3.00	0.00
						0.2	0.0	0.00	0.00	0.00	0.00
1	11/08/11	15:21:52:06	1	58845	-	26.1	0.0	0.00	0.00	0.00	0.00
						0.1	0.0	0.00	0.00	0.00	0.00
						0.1	0.0	0.00	0.00	0.00	0.00
						0.0	0.0	0.00	0.00	0.00	0.00

4 Events Recorded.

Voltage and Current Waveform Capture

Waveform Capture #1, Nov 08 2011, 15:14:04, Cycle 32



Voltage and Current Waveform Capture

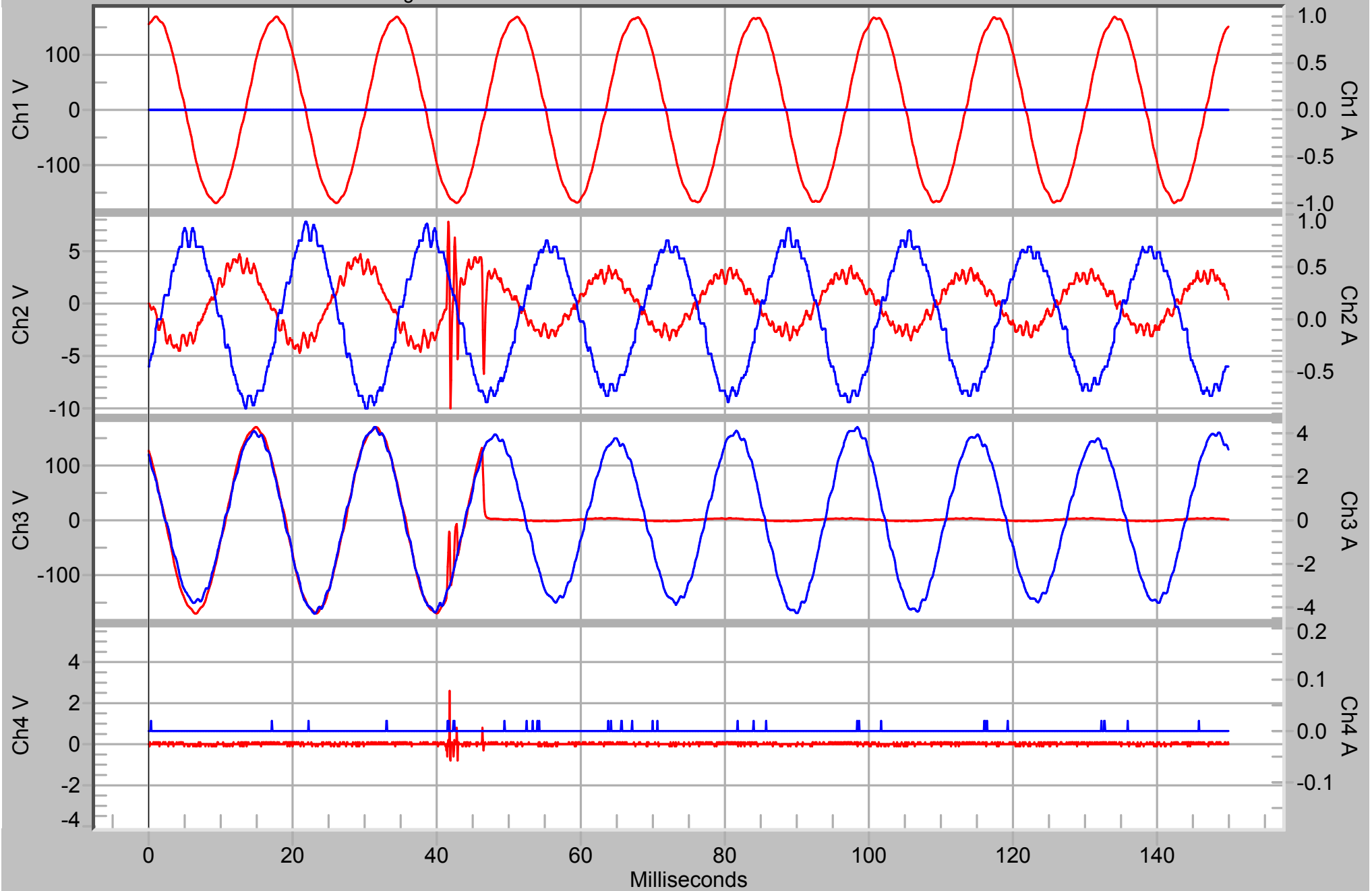
Waveform Capture #2, Nov 08 2011, 15:21:48, Cycle 31



Voltage



Current

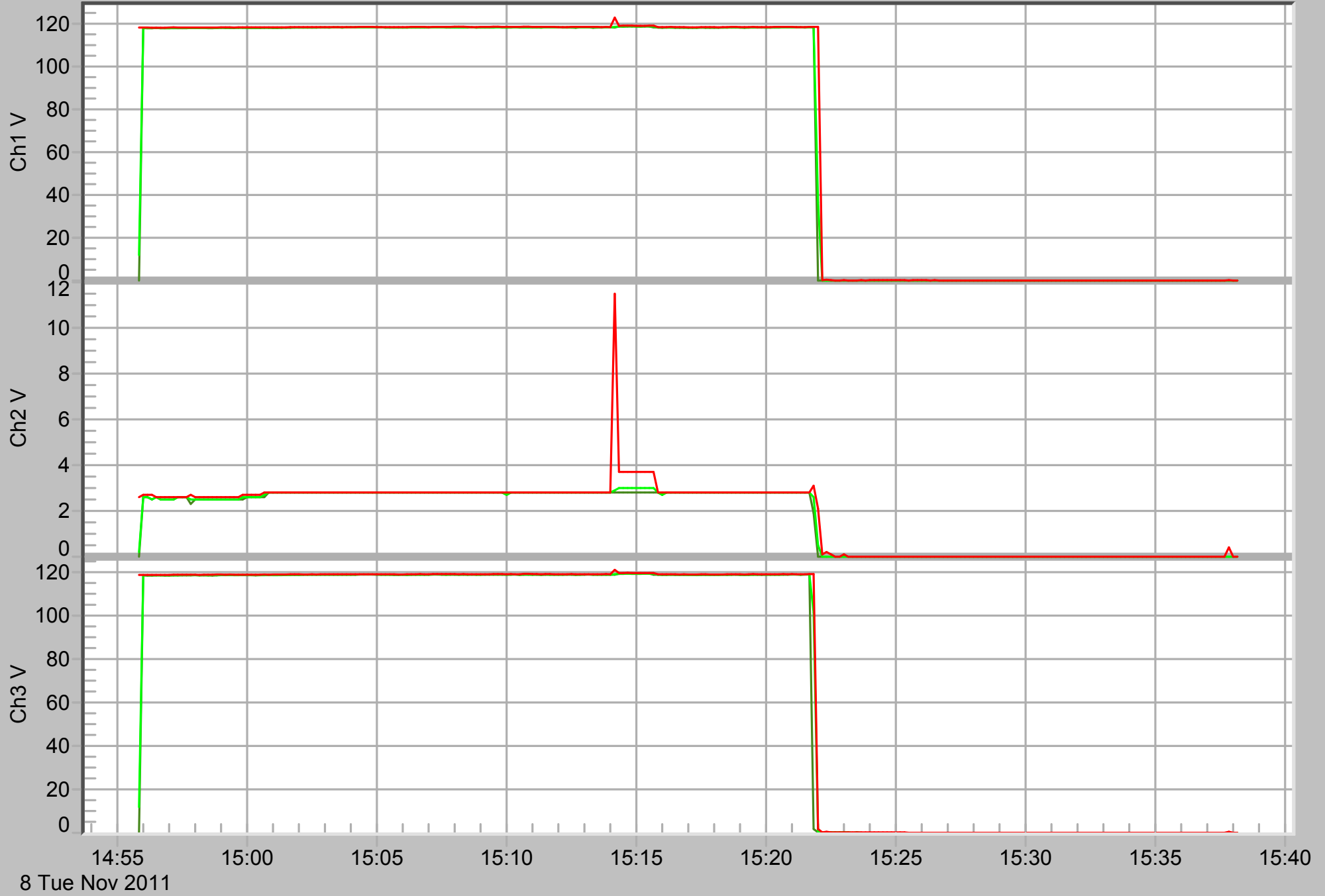


RMS Voltage

Min

Ave

Max

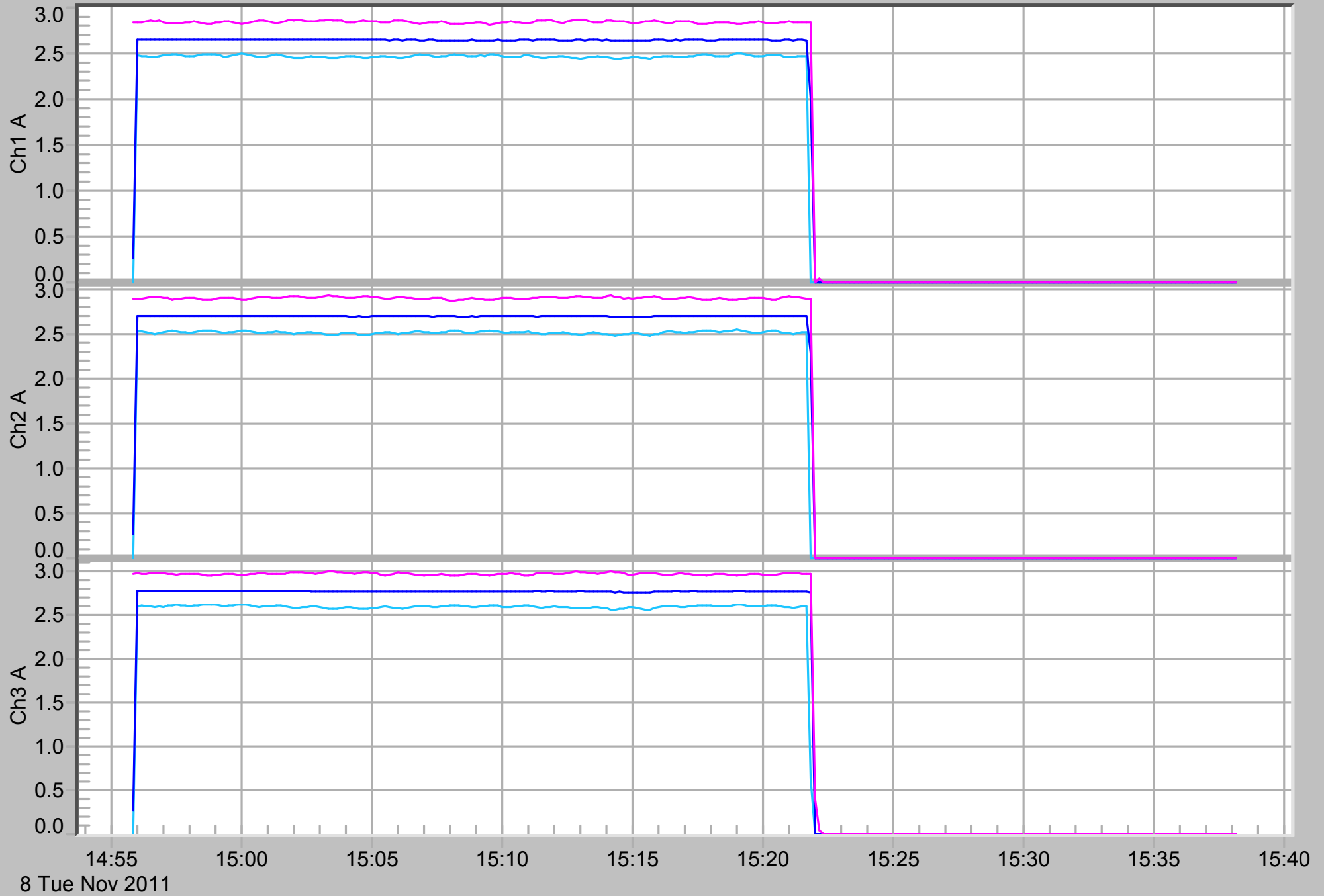


RMS Current

Min

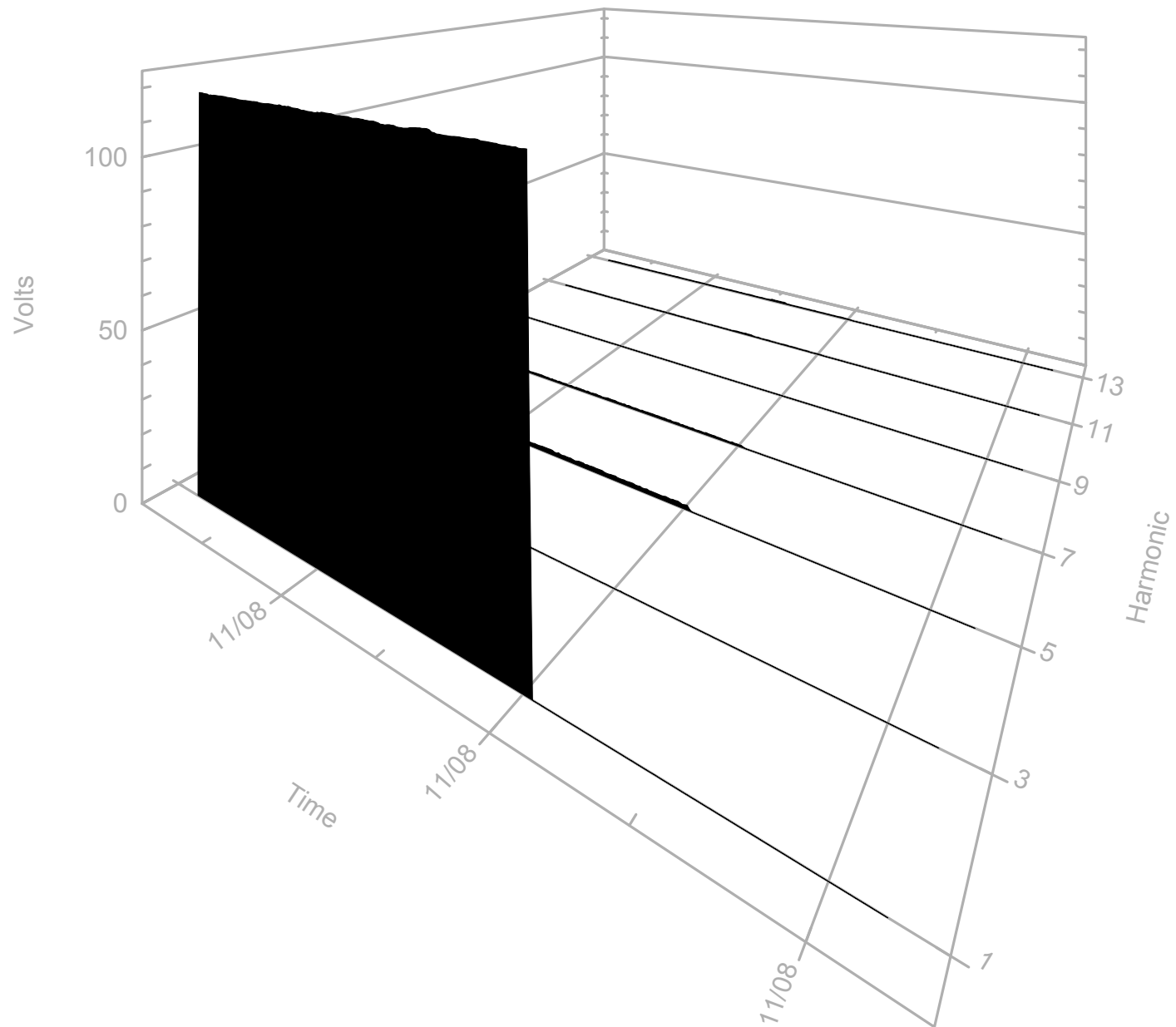
Ave

Max



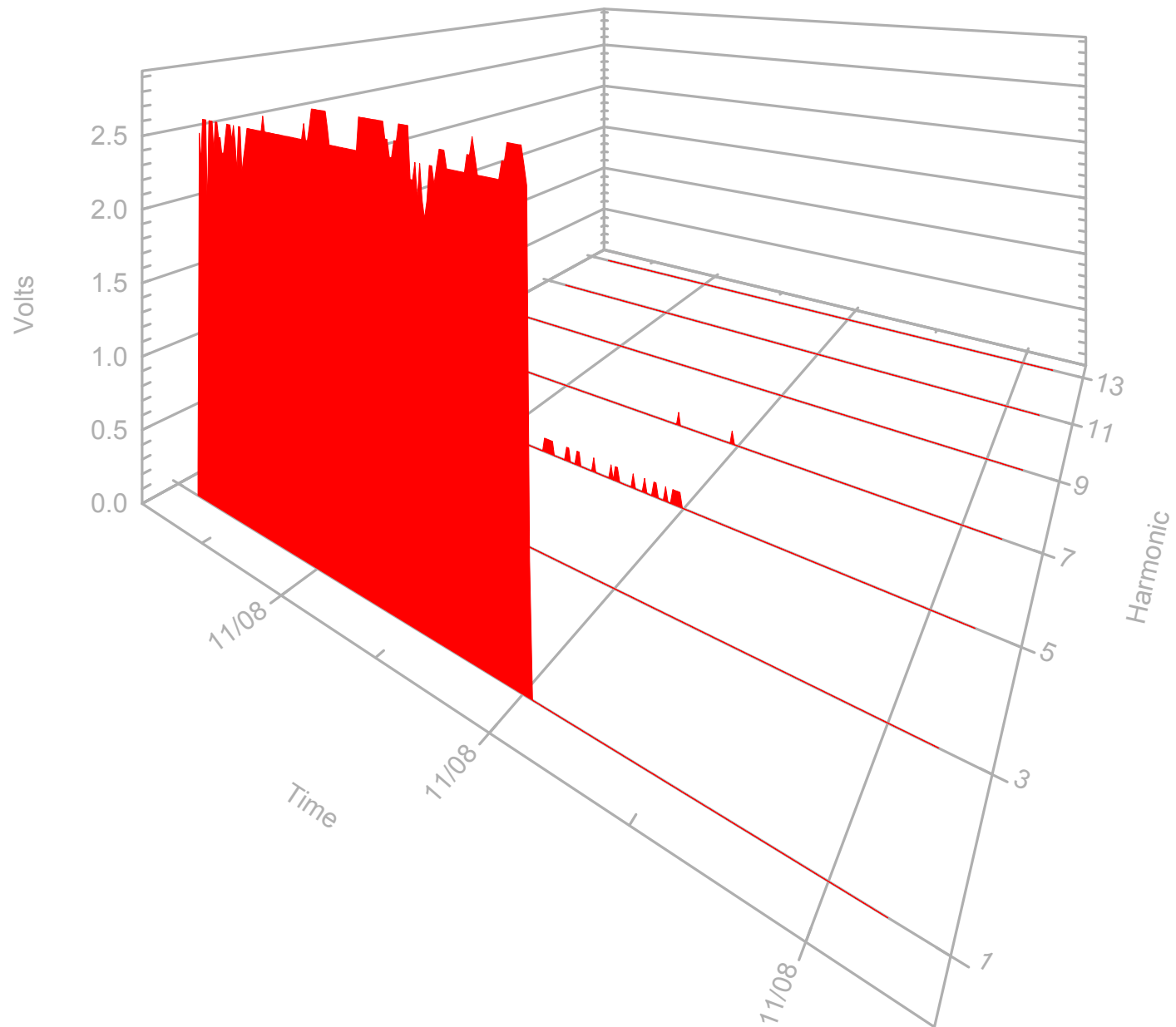
Ch 1 Voltage Harmonic Magnitude

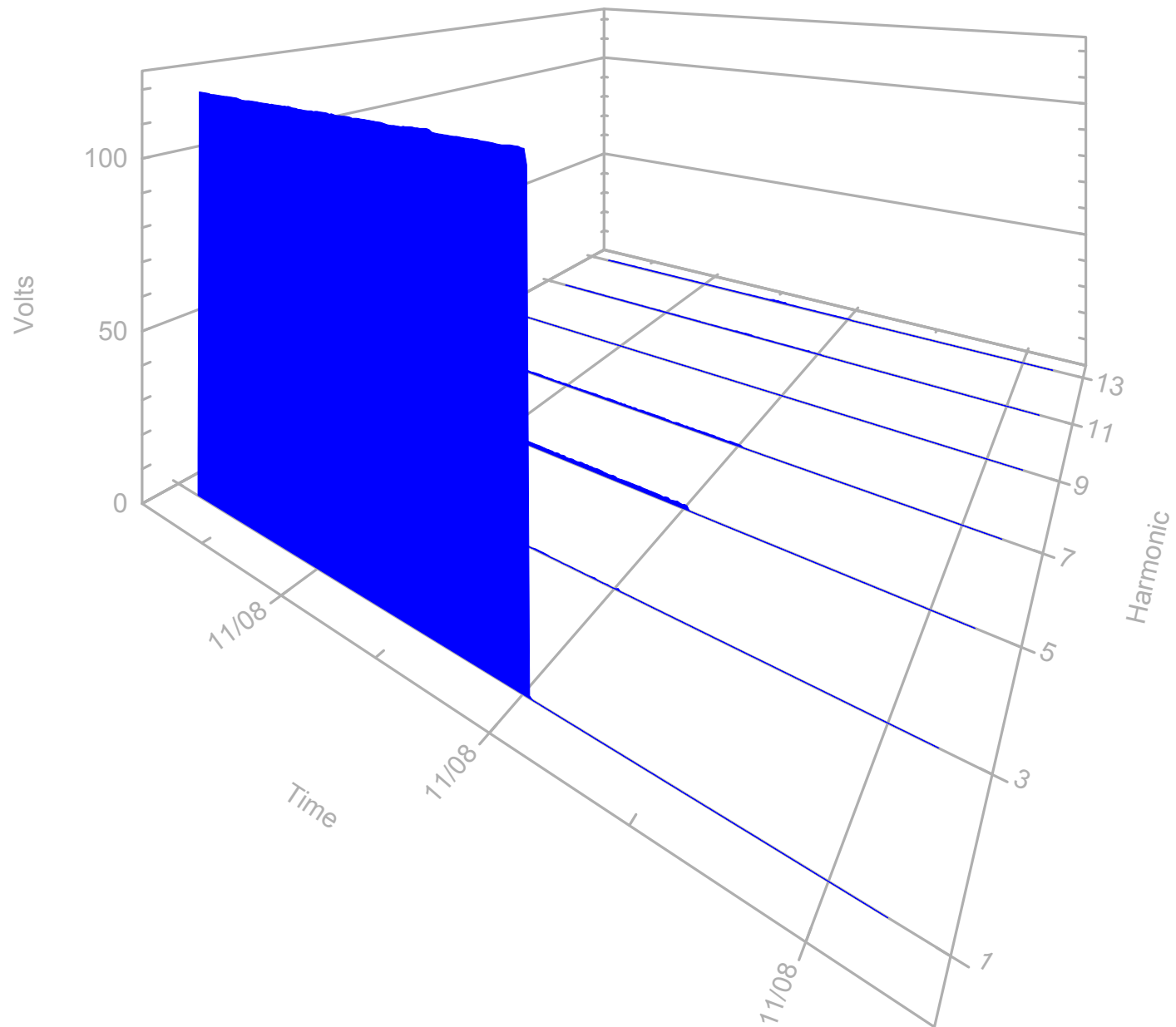
211.0

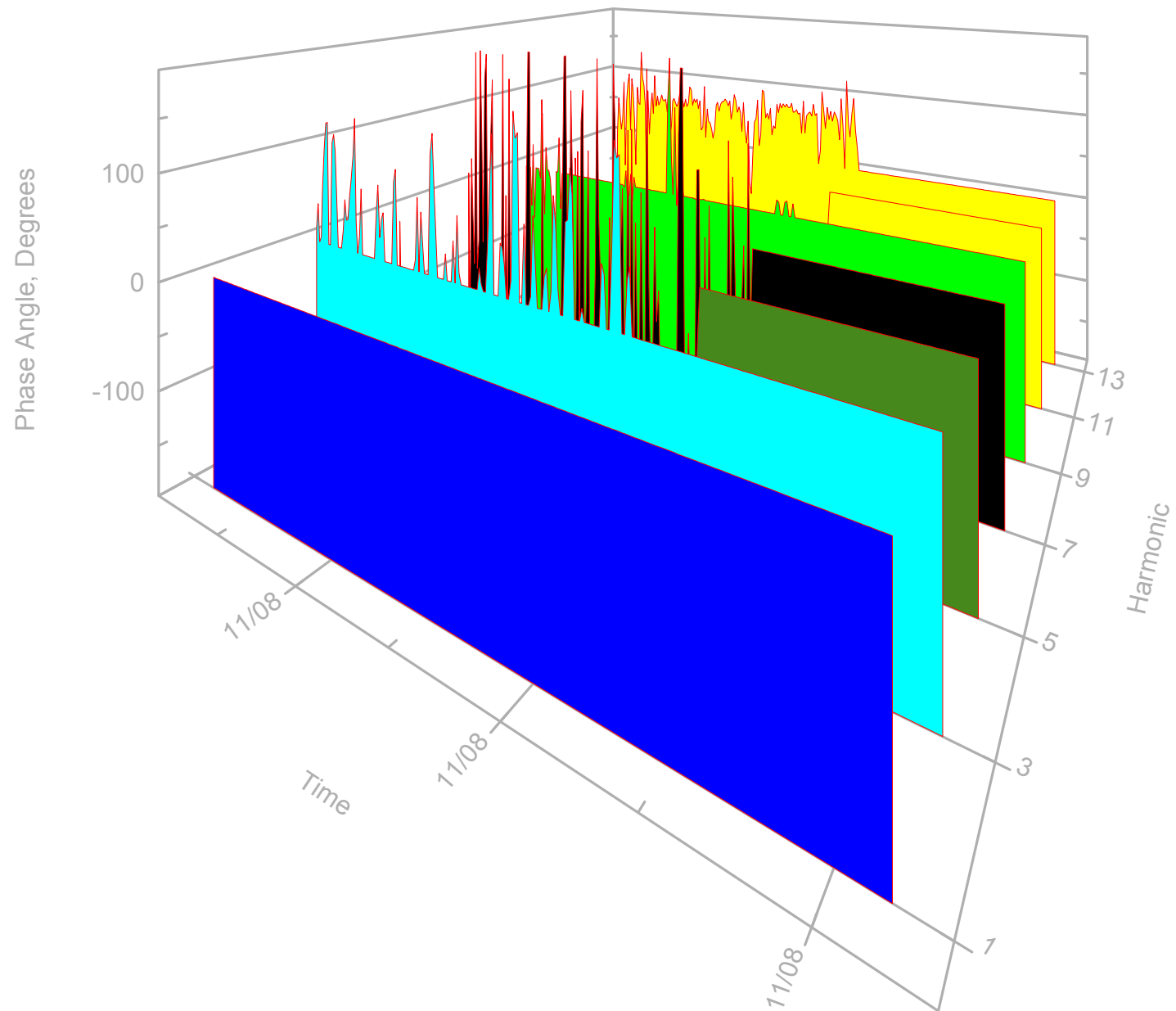


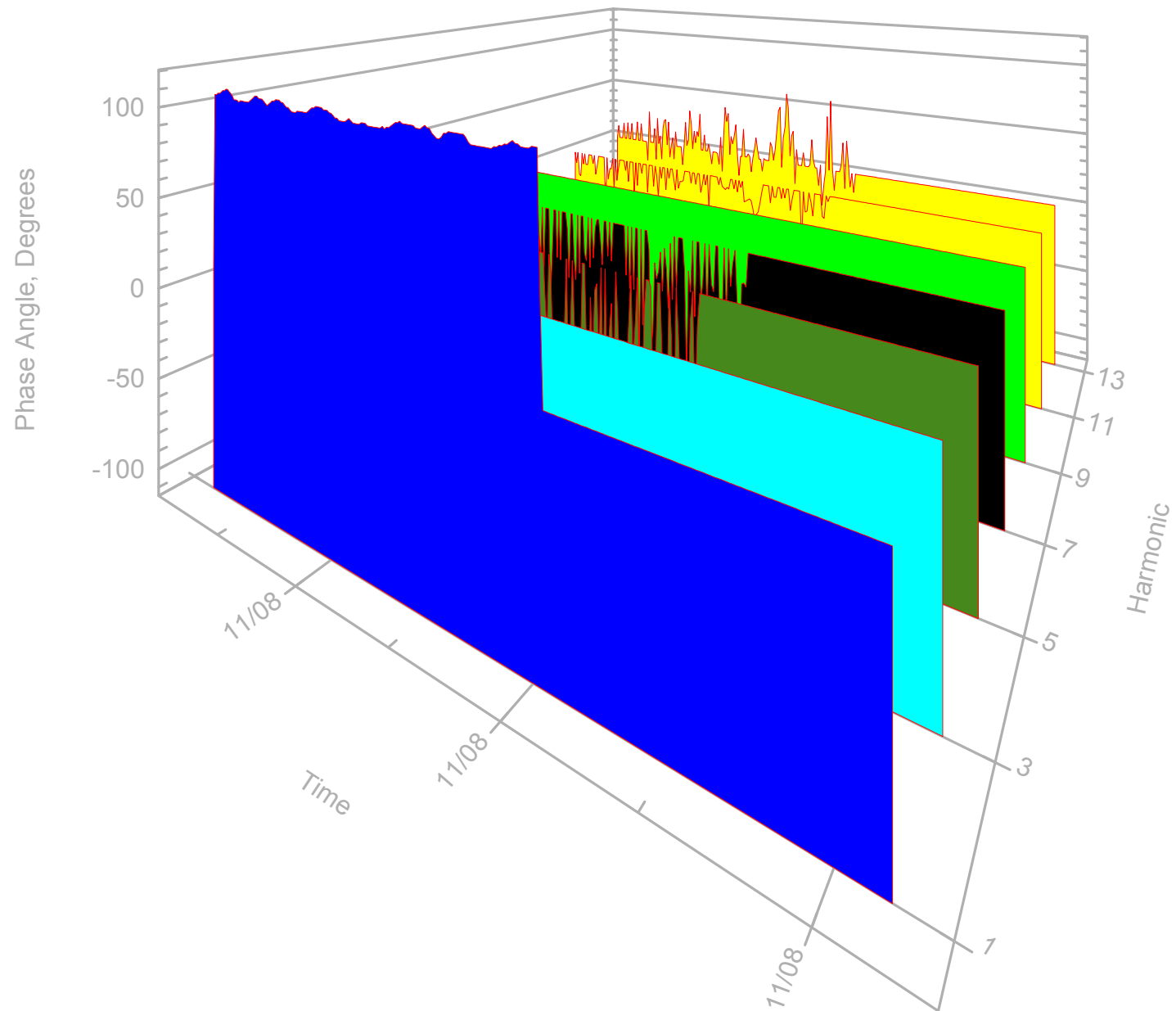
Ch 2 Voltage Harmonic Magnitude

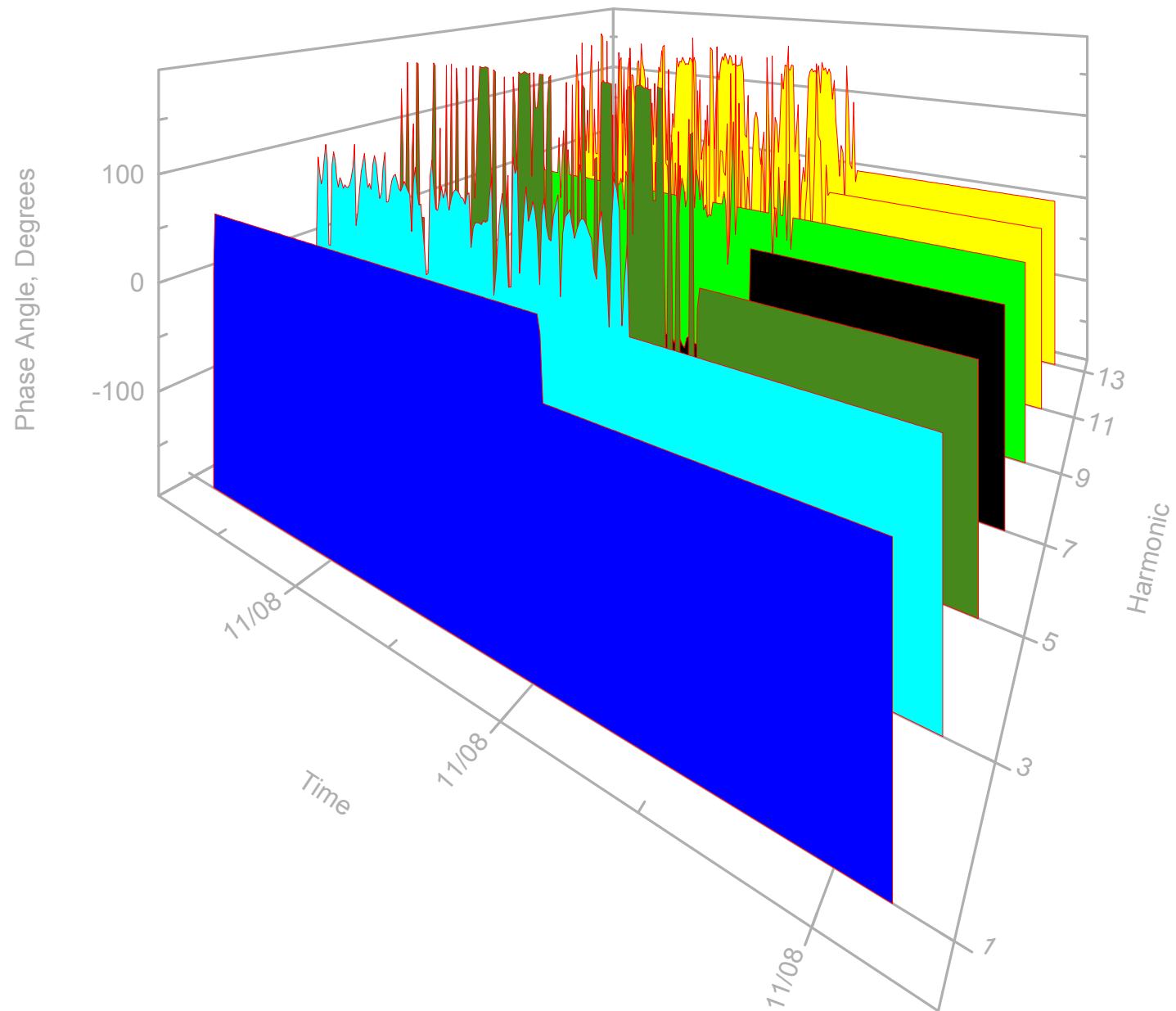
211.0











Harmonic Magnitudes

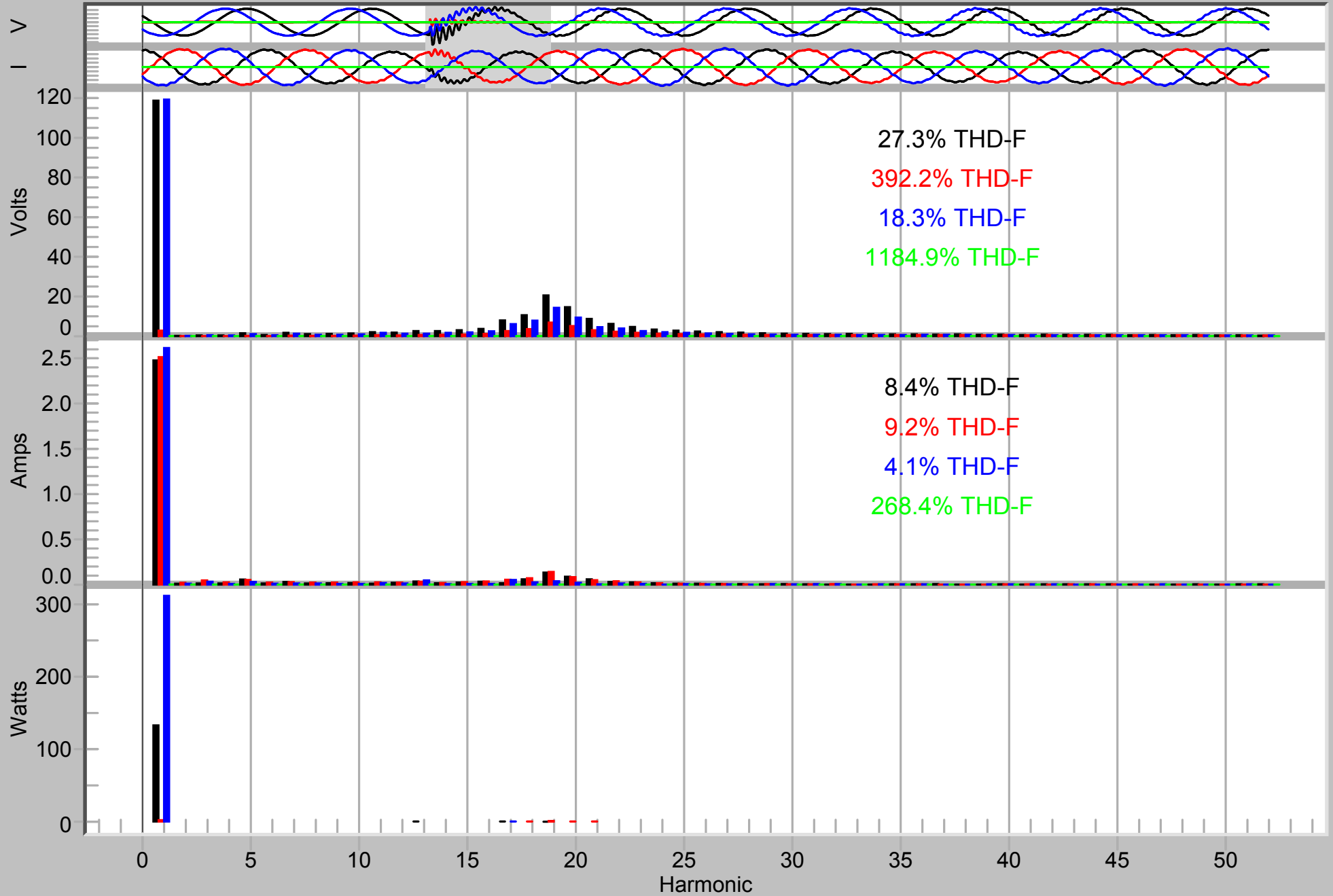
Waveform Capture #1, Nov 08 2011, 15:14:04, Cycle 32, starting point: 580 (37.70 ms)

Ch 1

Ch 2

Ch 3

Ch 4



Harmonic Magnitudes

Waveform Capture #1, Nov 08 2011, 15:14:04, Cycle 32, starting point: 855 (55.60 ms)

Ch 1

Ch 2

Ch 3

Ch 4

V

I

Volts

Amps

Watts

120

100

80

60

40

20

0

3.0

2.5

2.0

1.5

1.0

0.5

0.0

300

200

100

0

Harmonic

3.7% THD-F

45.4% THD-F

3.5% THD-F

258.9% THD-F

4.9% THD-F

5.1% THD-F

3.7% THD-F

1154.0% THD-F