

Start Time	3/19/2014 6:50:31 AM				
Stop Time	3/19/2014 8:09:32 AM				
Elapsed Time	1:19:01				
Interval	0:00:01				
Readings (All, Intervals, Events)	4759 / 4735 / 48				
Logging Setup	% of reading: 1% V AC				
Session Name					
	Max Time	Max	Average	Min	Min
	6:55:33 AM	129.60 V AC	121.41 V AC	102.84 V AC	6:55

Keyword: Sassmann, Dale

Form Saved Time: 3/19/2014 8:08:11 AM

Upload Time:

**Test Purpose:**

Logging 120V circuit, in home.  
Service address: 21 49 34 04  
Acct. No.: 0468266372

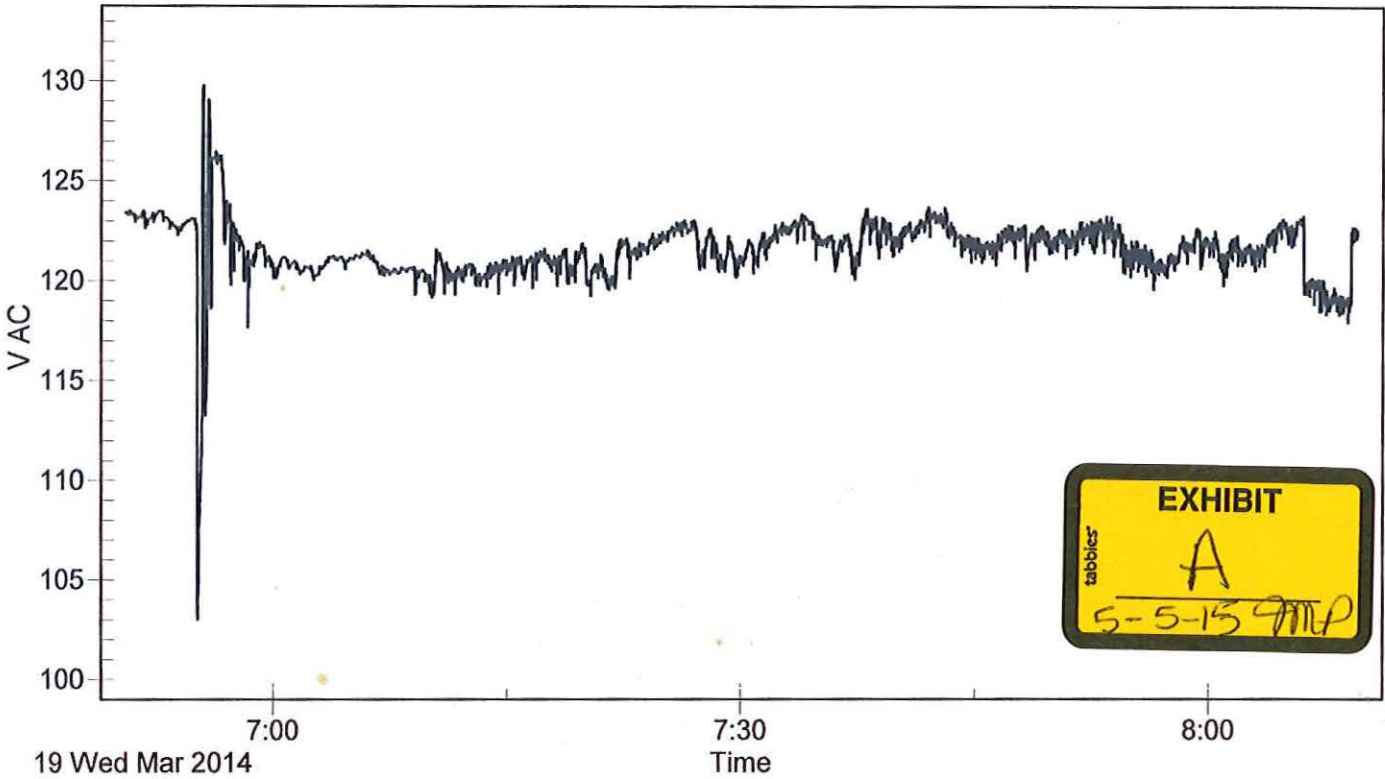
FILED

JUN 1 2015

Graph Name:

Show Data: All Graph View: All

Missouri Public  
Service Commission



EXHIBIT

A

5-5-15 JML

**Comments**

Witness Exhibit No. A

Date 5-5-15 Reporter JML

File No. EB-2014-0370

A	Sample	Start Time	Duration	Max Time	Max	Average	Min Time	Min	Description	Stop Ti
278	122.49 V AC	6:55:07 AM	0:00:00.5	6:55:07 AM	122.49 V AC	122.49 V AC	6:55:07 AM	122.49 V AC	Unstable	6:55:08
279	120.07 V AC	6:55:08 AM	0:00:00.5	6:55:08 AM	120.07 V AC	120.07 V AC	6:55:08 AM	120.07 V AC	Interval	6:55:08
280	103.10 V AC	6:55:08 AM	0:00:01.0	6:55:09 AM	103.83 V AC	103.47 V AC	6:55:08 AM	103.10 V AC	Interval	6:55:09
281	103.90 V AC	6:55:09 AM	0:00:01.0	6:55:10 AM	103.97 V AC	103.94 V AC	6:55:09 AM	103.90 V AC	Interval	6:55:10
282	104.00 V AC	6:55:10 AM	0:00:00.5	6:55:10 AM	104.00 V AC	104.00 V AC	6:55:10 AM	104.00 V AC	Unstable	6:55:11
283	102.84 V AC	6:55:11 AM	0:00:00.5	6:55:11 AM	102.84 V AC	102.84 V AC	6:55:11 AM	102.84 V AC	Interval	6:55:11
284	104.14 V AC	6:55:11 AM	0:00:01.0	6:55:12 AM	104.16 V AC	104.15 V AC	6:55:11 AM	104.14 V AC	Interval	6:55:12
285	104.14 V AC	6:55:12 AM	0:00:01.0	6:55:12 AM	104.14 V AC	104.11 V AC	6:55:13 AM	104.07 V AC	Interval	6:55:13
286	104.64 V AC	6:55:13 AM	0:00:01.0	6:55:13 AM	104.64 V AC	104.61 V AC	6:55:14 AM	104.57 V AC	Interval	6:55:14
287	104.62 V AC	6:55:14 AM	0:00:01.0	6:55:15 AM	105.26 V AC	104.94 V AC	6:55:14 AM	104.62 V AC	Interval	6:55:15
288	107.85 V AC	6:55:15 AM	0:00:01.0	6:55:16 AM	107.87 V AC	107.86 V AC	6:55:15 AM	107.85 V AC	Interval	6:55:16
289	107.55 V AC	6:55:16 AM	0:00:01.0	6:55:17 AM	107.73 V AC	107.64 V AC	6:55:16 AM	107.55 V AC	Interval	6:55:17

Start Time	3/19/2014 3:12:38 PM				
Stop Time	3/19/2014 5:14:17 PM				
Elapsed Time	2:01:39				
Interval	0:00:01				
Readings (All, Intervals, Events)	7327 / 7299 / 56				
Logging Setup	% of reading: 1% V AC				
Session Name					
	Max Time	Max	Average	Min	Min
	4:51:16 PM	130.15 V AC	120.79 V AC	114.77 V AC	3:35

Keyword: **Sassmann, Dale**

Form Saved Time: **3/19/2014 3:11:49 PM**

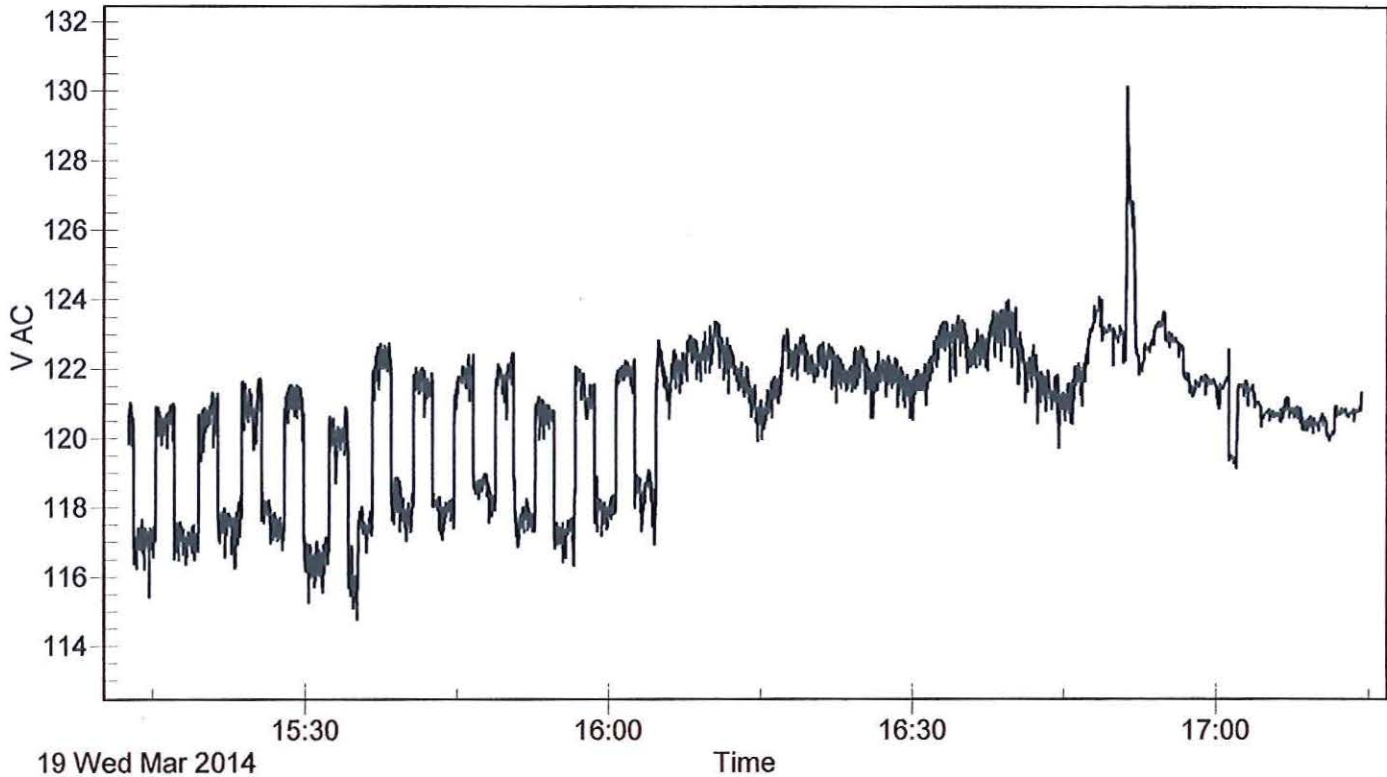
Upload Time:

**Test Purpose:**

Logging 120V circuit, in home.  
Service address: 21 49 34 04  
Acct. No.: 0468266372

Graph Name:

Show Data: All Graph View: All



**Comments**

A	Sample	Start Time	Duration	Max Time	Max	Average	Min Time	Min	Description	Stop Time
1559	122.21 V AC	3:38:25 PM	0:00:01.0	3:38:25 PM	122.21 V AC	122.20 V AC	3:38:26 PM	122.19 V AC	Interval	3:38:26
1560	122.29 V AC	3:38:26 PM	0:00:01.0	3:38:26 PM	122.29 V AC	122.24 V AC	3:38:27 PM	122.19 V AC	Interval	3:38:27
1561	122.22 V AC	3:38:27 PM	0:00:01.0	3:38:27 PM	122.22 V AC	122.22 V AC	3:38:27 PM	122.22 V AC	Interval	3:38:28
1562	121.92 V AC	3:38:28 PM	0:00:01.0	3:38:28 PM	121.92 V AC	121.88 V AC	3:38:29 PM	121.83 V AC	Interval	3:38:29
1563	121.87 V AC	3:38:29 PM	0:00:01.0	3:38:30 PM	122.07 V AC	121.97 V AC	3:38:29 PM	121.87 V AC	Interval	3:38:30
1564	121.89 V AC	3:38:30 PM	0:00:01.0	3:38:31 PM	121.95 V AC	121.92 V AC	3:38:30 PM	121.89 V AC	Interval	3:38:31
1565	122.06 V AC	3:38:31 PM	0:00:01.0	3:38:31 PM	122.06 V AC	122.05 V AC	3:38:32 PM	122.03 V AC	Interval	3:38:32
1566	118.40 V AC	3:38:32 PM	0:00:01.0	3:38:32 PM	118.40 V AC	118.37 V AC	3:38:33 PM	118.34 V AC	Interval	3:38:33
1567	118.31 V AC	3:38:33 PM	0:00:01.0	3:38:33 PM	118.31 V AC	118.21 V AC	3:38:34 PM	118.11 V AC	Interval	3:38:34
1568	118.23 V AC	3:38:34 PM	0:00:01.0	3:38:35 PM	118.40 V AC	118.32 V AC	3:38:34 PM	118.23 V AC	Interval	3:38:35
1569	118.08 V AC	3:38:35 PM	0:00:01.0	3:38:36 PM	118.23 V AC	118.16 V AC	3:38:35 PM	118.08 V AC	Interval	3:38:36
1570	117.63 V AC	3:38:36 PM	0:00:01.0	3:38:37 PM	117.67 V AC	117.65 V AC	3:38:36 PM	117.63 V AC	Interval	3:38:37

Start Time	3/20/2014 6:41:49 AM				
Stop Time	3/20/2014 8:25:11 AM				
Elapsed Time	1:43:23				
Interval	0:00:10				
Readings (All, Intervals, Events)	665 / 621 / 45				
Logging Setup	% of reading: 1% V AC				
Session Name					
	Max Time	Max	Average	Min	Min Time
	8:07:17 AM	130.92 V AC	121.74 V AC	103.00 V AC	8:06:38 AM

Keyword:

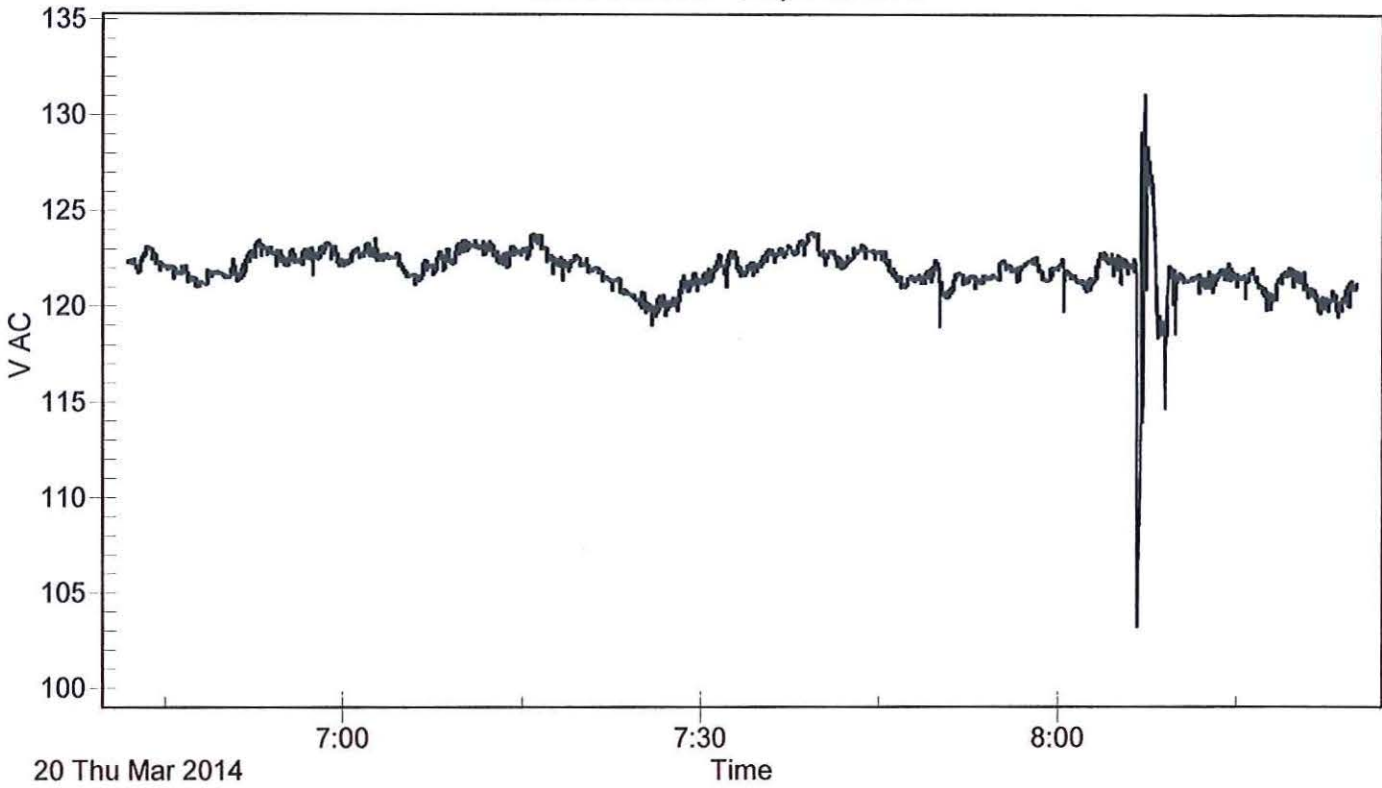
Form Saved Time: 3/20/2014 8:26:18 AM

Upload Time:

Test Purpose:

Graph Name:

Show Data: All Graph View: All



Comments

A	Sample	Start Time	Duration	Max Time	Max	Average	Min Time	Min	Description	Stop Ti
517	122.05 V AC	8:06:28 AM	0:00:08.2	8:06:31 AM	122.08 V AC	122.06 V AC	8:06:35 AM	122.04 V AC	Stable	8:06:36
518	118.36 V AC	8:06:36 AM	0:00:00.5	8:06:36 AM	118.36 V AC	118.36 V AC	8:06:36 AM	118.36 V AC	Unstable	8:06:37
519	103.16 V AC	8:06:37 AM	0:00:01.5	8:06:37 AM	103.16 V AC	103.08 V AC	8:06:37 AM	103.01 V AC	Interval	8:06:38
520	103.00 V AC	8:06:38 AM	0:00:04.0	8:06:41 AM	103.88 V AC	103.49 V AC	8:06:38 AM	103.00 V AC	Stable	8:06:42
521	104.41 V AC	8:06:42 AM	0:00:01.5	8:06:43 AM	104.60 V AC	104.50 V AC	8:06:42 AM	104.41 V AC	Stable	8:06:44
522	107.05 V AC	8:06:44 AM	0:00:04.1	8:06:48 AM	107.65 V AC	107.16 V AC	8:06:45 AM	106.56 V AC	Interval	8:06:48
523	108.33 V AC	8:06:48 AM	0:00:03.6	8:06:50 AM	109.19 V AC	108.85 V AC	8:06:48 AM	108.33 V AC	Stable	8:06:52
524	109.75 V AC	8:06:52 AM	0:00:03.1	8:06:53 AM	110.77 V AC	110.33 V AC	8:06:52 AM	109.75 V AC	Stable	8:06:55
525	111.22 V AC	8:06:55 AM	0:00:02.1	8:06:56 AM	126.81 V AC	118.39 V AC	8:06:55 AM	111.22 V AC	Unstable	8:06:57
526	128.08 V AC	8:06:57 AM	0:00:01.6	8:06:58 AM	128.80 V AC	128.52 V AC	8:06:57 AM	128.08 V AC	Interval	8:06:58
527	128.87 V AC	8:06:58 AM	0:00:03.0	8:06:59 AM	128.95 V AC	128.87 V AC	8:07:00 AM	128.77 V AC	Stable	8:07:01
528	116.07 V AC	8:07:01 AM	0:00:00.5	8:07:01 AM	116.07 V AC	116.07 V AC	8:07:01 AM	116.07 V AC	Unstable	8:07:02
529	114.66 V AC	8:07:02 AM	0:00:06.1	8:07:08 AM	114.96 V AC	114.16 V AC	8:07:06 AM	113.73 V AC	Interval	8:07:08
530	115.04 V AC	8:07:08 AM	0:00:03.6	8:07:11 AM	115.50 V AC	114.93 V AC	8:07:11 AM	114.56 V AC	Stable	8:07:12
531	116.43 V AC	8:07:12 AM	0:00:02.0	8:07:13 AM	124.22 V AC	118.66 V AC	8:07:12 AM	116.43 V AC	Unstable	8:07:14
532	122.50 V AC	8:07:14 AM	0:00:02.4	8:07:16 AM	122.06 V AC	122.45 V AC	8:07:14 AM	122.50 V AC	Stable	8:07:17

Start Time	5/5/2015 6:40:16 AM
Stop Time	5/5/2015 6:59:06 AM
Elapsed Time	0:18:50
Interval	0:00:02
Readings (All, Intervals, Events)	568 / 565 / 5
Logging Setup	% of reading: 4% V AC
Session Name	

	Max Time	Max	Average	Min	Min Time	S
	6:46:10 AM	133.74 V AC	121.80 V AC	103.95 V AC	6:45:45 AM	(

Keyword:

Form Saved Time: 5/5/2015 6:40:15 AM

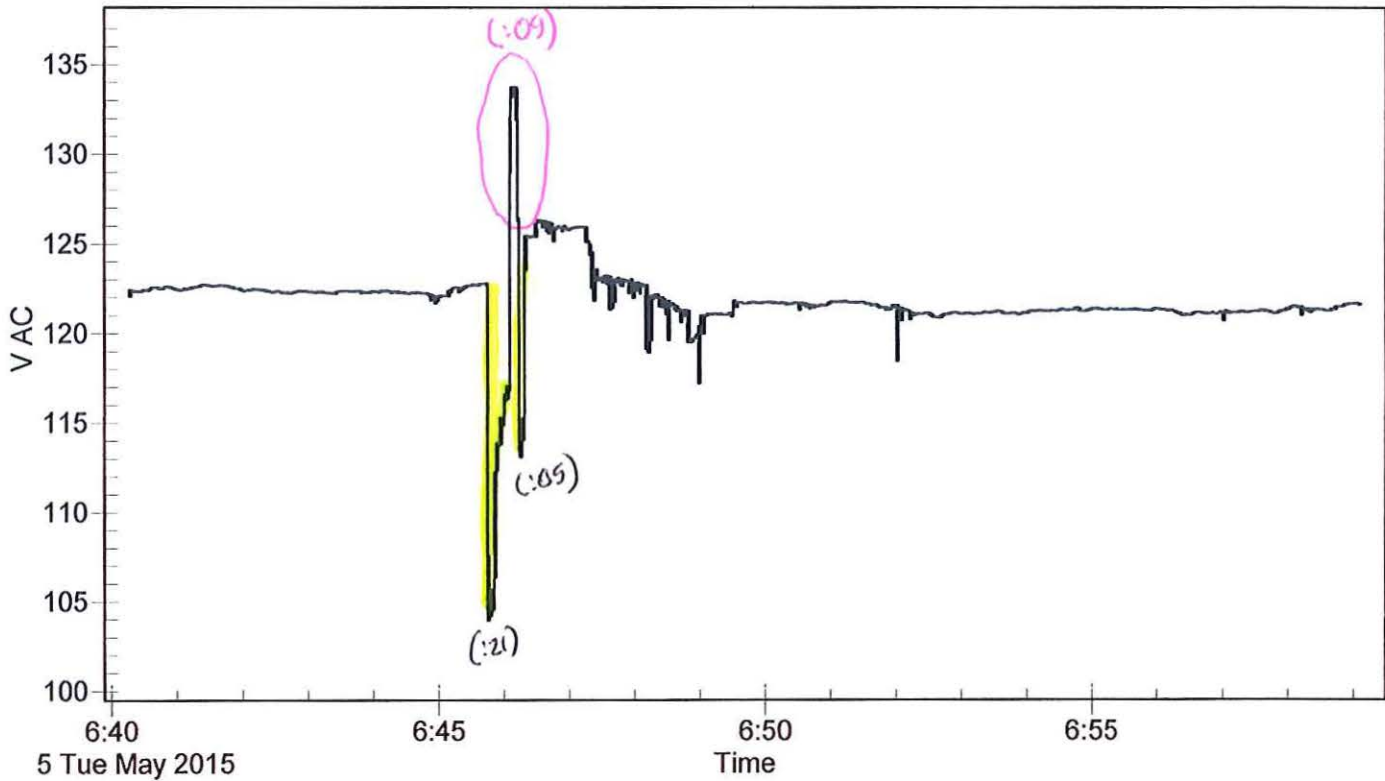
Upload Time:

*1 of 2*

Test Purpose:

Graph Name:

Show Data: All Graph View: All



Comments

A	Sample	Start Time	Duration	Max Time	Max	Average	Min Time	Min	Description	Stop Ti
163	122.76 V AC	6:45:40 AM	0:00:02.0	6:45:42 AM	122.78 V AC	122.77 V AC	6:45:40 AM	122.76 V AC	Interval	6:45:42
164	122.77 V AC	6:45:42 AM	0:00:02.0	6:45:42 AM	122.77 V AC	122.72 V AC	6:45:43 AM	122.70 V AC	Interval	6:45:44
165	107.53 V AC	6:45:44 AM	0:00:02.0	6:45:44 AM	107.53 V AC	104.93 V AC	6:45:45 AM	103.95 V AC	Interval	6:45:46
166	104.19 V AC	6:45:46 AM	0:00:02.0	6:45:47 AM	104.88 V AC	104.65 V AC	6:45:46 AM	104.19 V AC	Interval	6:45:48
167	104.58 V AC	6:45:48 AM	0:00:02.0	6:45:50 AM	105.66 V AC	105.04 V AC	6:45:48 AM	104.58 V AC	Interval	6:45:50
168	106.34 V AC	6:45:50 AM	0:00:02.0	6:45:52 AM	112.21 V AC	110.21 V AC	6:45:50 AM	106.34 V AC	Interval	6:45:53
169	112.32 V AC	6:45:53 AM	0:00:01.5	6:45:54 AM	113.82 V AC	112.83 V AC	6:45:53 AM	112.32 V AC	Interval	6:45:54
170	113.87 V AC	6:45:54 AM	0:00:02.0	6:45:54 AM	113.87 V AC	113.84 V AC	6:45:55 AM	113.76 V AC	Interval	6:45:56
171	113.83 V AC	6:45:56 AM	0:00:02.0	6:45:58 AM	115.28 V AC	114.62 V AC	6:45:56 AM	113.83 V AC	Interval	6:45:58
172	115.26 V AC	6:45:58 AM	0:00:02.1	6:45:58 AM	115.26 V AC	115.09 V AC	6:45:59 AM	114.88 V AC	Interval	6:46:00
173	116.26 V AC	6:46:00 AM	0:00:02.0	6:46:01 AM	116.58 V AC	116.47 V AC	6:46:00 AM	116.26 V AC	Interval	6:46:02
174	116.46 V AC	6:46:02 AM	0:00:02.0	6:46:04 AM	117.04 V AC	116.58 V AC	6:46:03 AM	116.35 V AC	Interval	6:46:04
175	116.84 V AC	6:46:04 AM	0:00:01.0	6:46:05 AM	117.04 V AC	116.94 V AC	6:46:04 AM	116.84 V AC	Unstable	6:46:05
176	128.98 V AC	6:46:05 AM	0:00:01.0	6:46:06 AM	132.07 V AC	130.52 V AC	6:46:05 AM	128.98 V AC	Interval	6:46:06
177	133.34 V AC	6:46:06 AM	0:00:02.0	6:46:08 AM	133.73 V AC	133.50 V AC	6:46:07 AM	133.19 V AC	Interval	6:46:08
178	133.74 V AC	6:46:08 AM	0:00:02.0	6:46:10 AM	133.74 V AC	133.72 V AC	6:46:09 AM	133.70 V AC	Interval	6:46:10

*0:21*

Start Time	5/5/2015 6:40:16 AM
Stop Time	5/5/2015 6:59:06 AM
Elapsed Time	0:18:50
Interval	0:00:02
Readings (All, Intervals, Events)	568 / 565 / 5
Logging Setup	% of reading: 4% V AC
Session Name	

	Max Time	Max	Average	Min	Min Time	S
	6:46:10 AM	133.74 V AC	121.80 V AC	103.95 V AC	6:45:45 AM	(

Keyword:

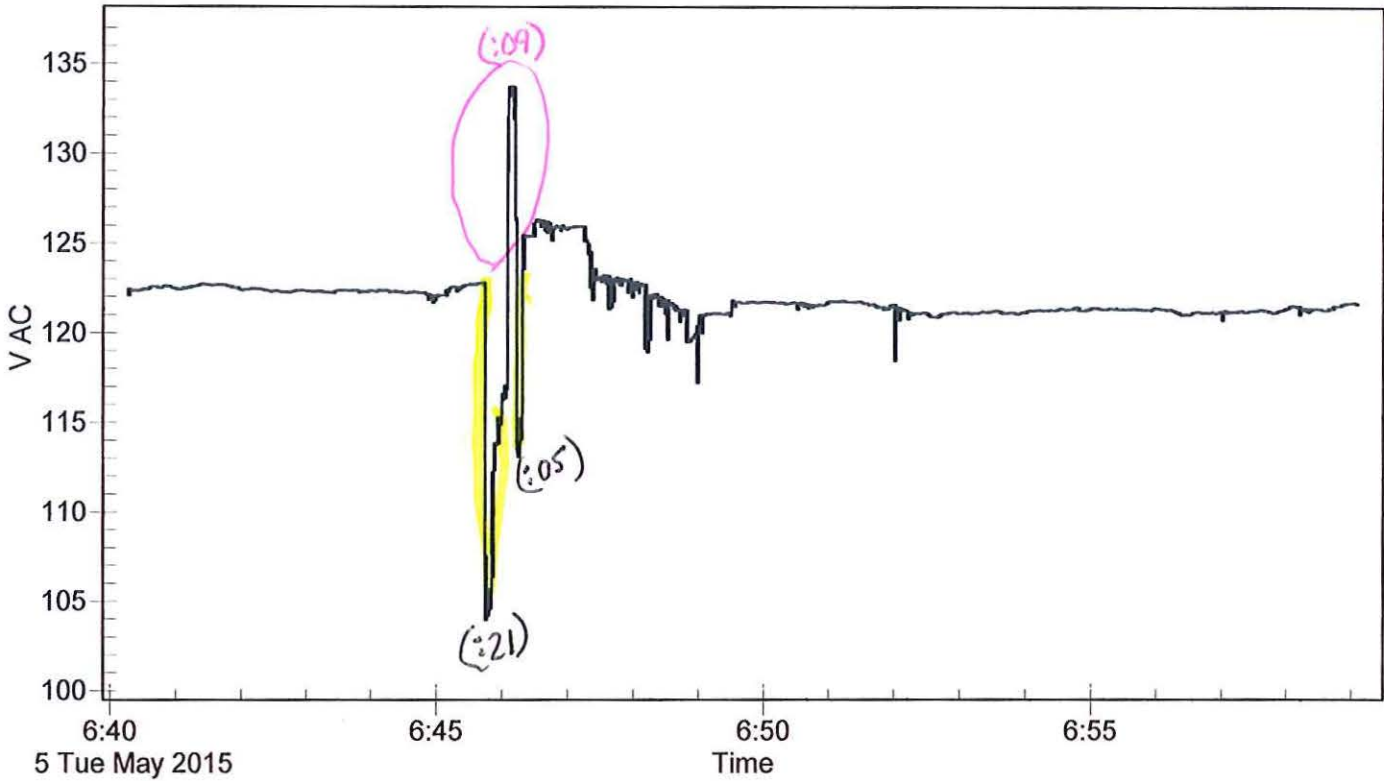
Form Saved Time: 5/5/2015 6:40:15 AM *Zotz*

Upload Time:

Test Purpose:

Graph Name:

Show Data: All Graph View: All



Comments

A	Sample	Start Time	Duration	Max Time	Max	Average	Min Time	Min	Description	Stop Ti
175	116.84 V AC	6:46:04 AM	0:00:01.0	6:46:05 AM	117.04 V AC	116.94 V AC	6:46:04 AM	116.84 V AC	Unstable	6:46:05
176	128.98 V AC	6:46:05 AM	0:00:01.0	6:46:06 AM	132.07 V AC	130.52 V AC	6:46:05 AM	128.98 V AC	Interval	6:46:06
177	133.34 V AC	6:46:06 AM	0:00:02.0	6:46:08 AM	133.73 V AC	133.50 V AC	6:46:07 AM	133.19 V AC	Interval	6:46:08
178	133.73 V AC	6:46:08 AM	0:00:02.0	6:46:10 AM	133.74 V AC	133.72 V AC	6:46:09 AM	133.70 V AC	Interval	6:46:10
179	133.65 V AC	6:46:10 AM	0:00:02.0	6:46:11 AM	133.70 V AC	133.25 V AC	6:46:12 AM	131.93 V AC	Interval	6:46:12
180	126.42 V AC	6:46:12 AM	0:00:01.5	6:46:12 AM	126.42 V AC	126.36 V AC	6:46:13 AM	126.30 V AC	Stable	6:46:14
181	113.45 V AC	6:46:14 AM	0:00:00.5	6:46:14 AM	113.45 V AC	113.45 V AC	6:46:14 AM	113.45 V AC	Interval	6:46:14
182	113.10 V AC	6:46:14 AM	0:00:02.0	6:46:16 AM	113.79 V AC	113.29 V AC	6:46:14 AM	113.10 V AC	Interval	6:46:16
183	114.06 V AC	6:46:16 AM	0:00:02.0	6:46:18 AM	115.26 V AC	114.56 V AC	6:46:16 AM	114.06 V AC	Interval	6:46:18
184	123.55 V AC	6:46:18 AM	0:00:02.0	6:46:19 AM	125.44 V AC	124.93 V AC	6:46:18 AM	123.55 V AC	Interval	6:46:20
185	125.42 V AC	6:46:20 AM	0:00:01.5	6:46:21 AM	125.44 V AC	125.43 V AC	6:46:20 AM	125.42 V AC	Interval	6:46:22
186	125.39 V AC	6:46:22 AM	0:00:02.0	6:46:22 AM	125.39 V AC	125.38 V AC	6:46:23 AM	125.37 V AC	Interval	6:46:24
187	125.39 V AC	6:46:24 AM	0:00:02.0	6:46:25 AM	125.42 V AC	125.41 V AC	6:46:24 AM	125.39 V AC	Interval	6:46:26
188	125.41 V AC	6:46:26 AM	0:00:02.0	6:46:28 AM	125.42 V AC	125.41 V AC	6:46:26 AM	125.41 V AC	Interval	6:46:28
189	125.41 V AC	6:46:28 AM	0:00:02.1	6:46:30 AM	126.10 V AC	125.58 V AC	6:46:29 AM	125.40 V AC	Interval	6:46:30
190	126.19 V AC	6:46:30 AM	0:00:02.0	6:46:31 AM	126.31 V AC	126.27 V AC	6:46:30 AM	126.19 V AC	Interval	6:46:32