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April 28, 2014

RECEIVED
APR 29 2014
PUBLIC SERVICE
COMMISSION

Mr. Jeff Derouen
Executive Director
Kentucky Public Service Commission
P.O. Box 615
Frankfort, Kentucky 40602-0615

RE: Case No. 2012-00310
Case No. 2012-00311
Case No. 2012-00312

Dear Mr. Derouen:

As per paragraph 3 and 4 of the Commission's order dated March 7, 2014, we are hereby submitting ten (10) copies of the data recorded by the monitoring equipment that was in place for a period of 30 days. We also included a statement summarizing our findings of that data. A copy of this letter and our summary with data has been sent to Mona Corrin Jarboe, Steven L. Miles and David Ballentine Bell at their addresses via first class mail.

If you have any questions, please do not hesitate to contact us.

Respectfully submitted,



Thomas C. Brite

Attorney for Meade County RECC



Meade County RECC

P.O. Box 489
Brandenburg, KY 40108-0489
(270) 422-2162
Fax: (270) 422-4705

RECEIVED
APR 29 2014
PUBLIC SERVICE
COMMISSION

Meade County RECC's Statement Summary of Data

In response to the Commission's order 2012-00312 dated March 7, 2014, Meade County RECC installed a digital voltage recorder within 1500 feet of Mr. Bell's residence at an inactive grain bin. This location was chosen due to the availability of a transformer, the absence of any secondary load that can affect the logging values, and, the proximity to the three complainants' residences. This location has also been used in most, if not all, of the prior recording sessions. The recorder was installed on Friday, March 14th and configured to log data for 30 days. The recorder was removed on April 15th and because of the 30 day logging period, the 14th of March was overwritten. With the recorders set to a 30 day window of logging, the logging rate was one every 30 seconds. The sample rate remained at the 256 per cycle (15,360/second).

The charts depicting the voltage levels are attached to the response. The charts show the minimum and maximum sample during the logging period of 30 seconds. The first page shows the 30 day voltage graph for both legs of the transformer; the second page shows only one phase. The second phase is shown on page 33 of the charts. The pages following pages 2 and 33 show the voltages during the 5 PM to 11 PM time period for each day during the recording session.

The charts show a relatively calm month except during the latest portion of March and the early April when wind, rain, and thunderstorms moved through the area. On the 29th of March, a couple of sags of approximately 6-10 Volts can be seen. These are likely indications of a reclosure operating somewhere in the Battletown substation's distribution system. On April 3rd and 4th, a couple of more noticeable sags are present. There were thunderstorms in the area and Big Rivers Electric, Meade County's power supplier, had multiple reclosure operations and lockouts during this time period.

With the exceptions of these weather related incidents, the charts show no voltage variance outside of the Commission's required levels of +/- 10% during the daytime hours and +/- 5% (not to exceed 6% overall variance) from 5 PM to 11 PM.

File 12/15 (M Bell Gr 8:1)

RMS Voltage

Min

Aver

Max



15 Sat
Mar 2014

22 Sat

11 Tue

8 Tue

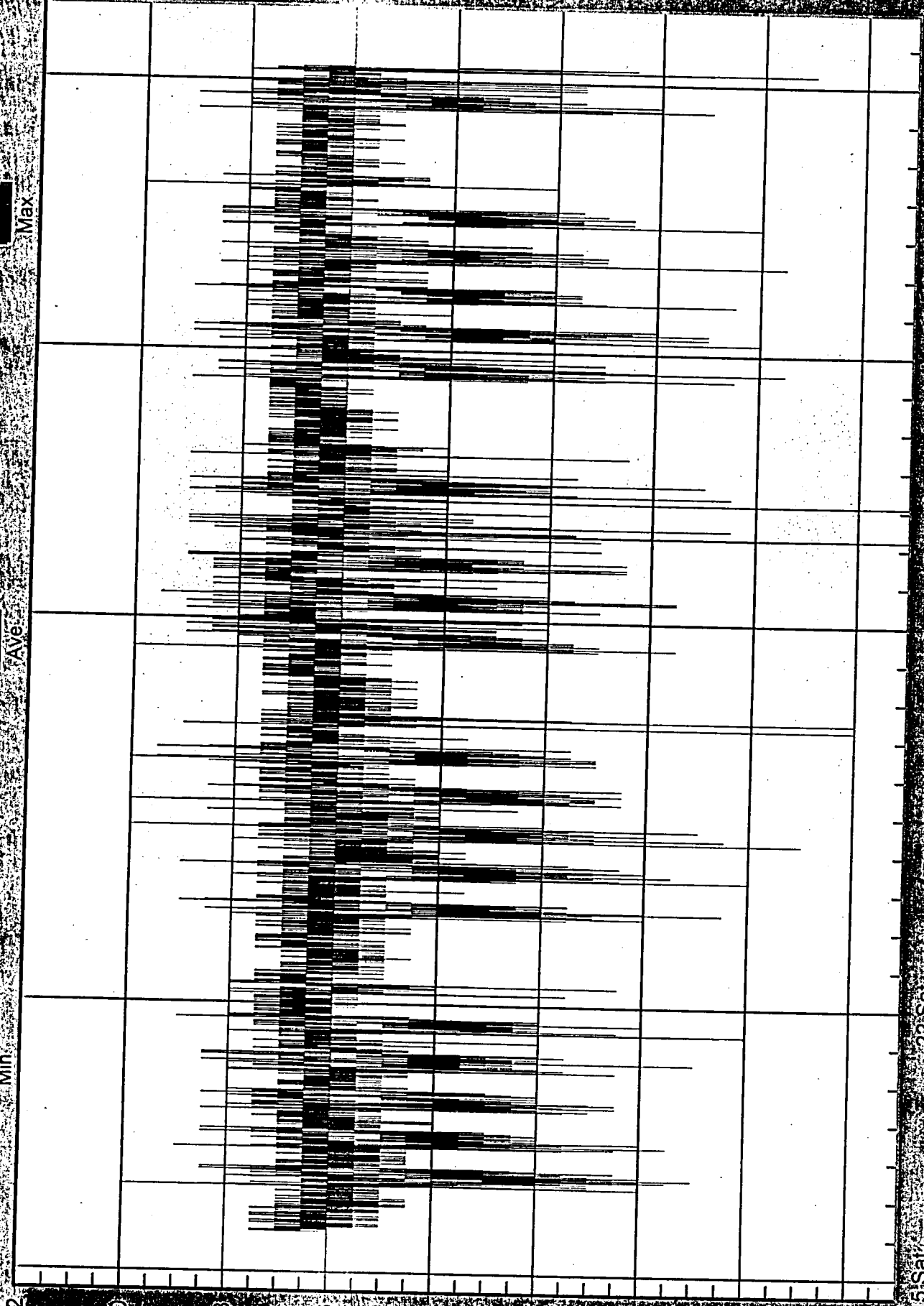
15 Tue

RMS Voltage

Min

Ave

Max



132

130

128

126

124

122

120

118

116

15 Sat

22 Sat

1 Tue

8 Tue

15 Tue

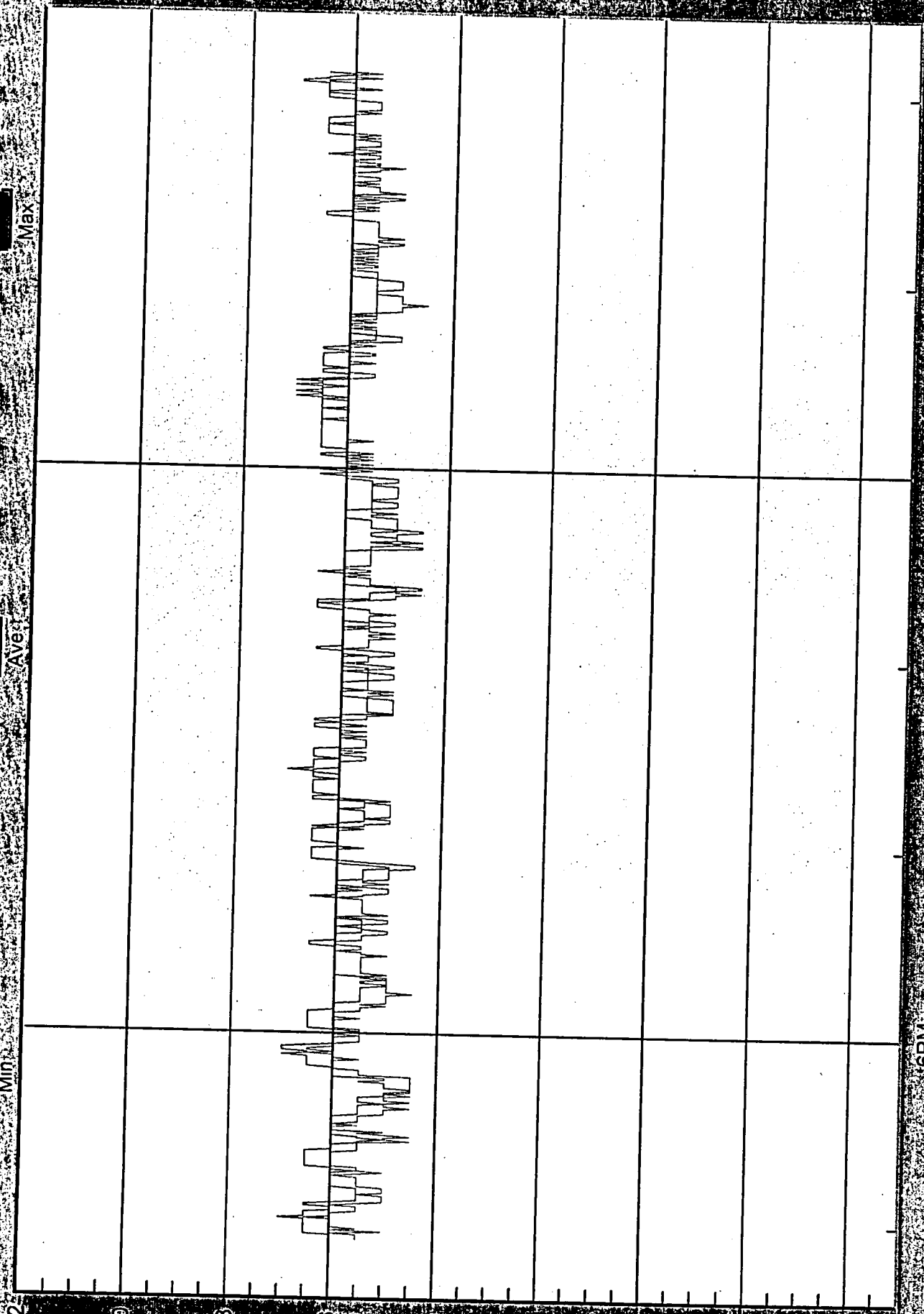
Mar 20 14

RMS Voltage

Min

Ave

Max



Mar 16 Sun 2014

6PM

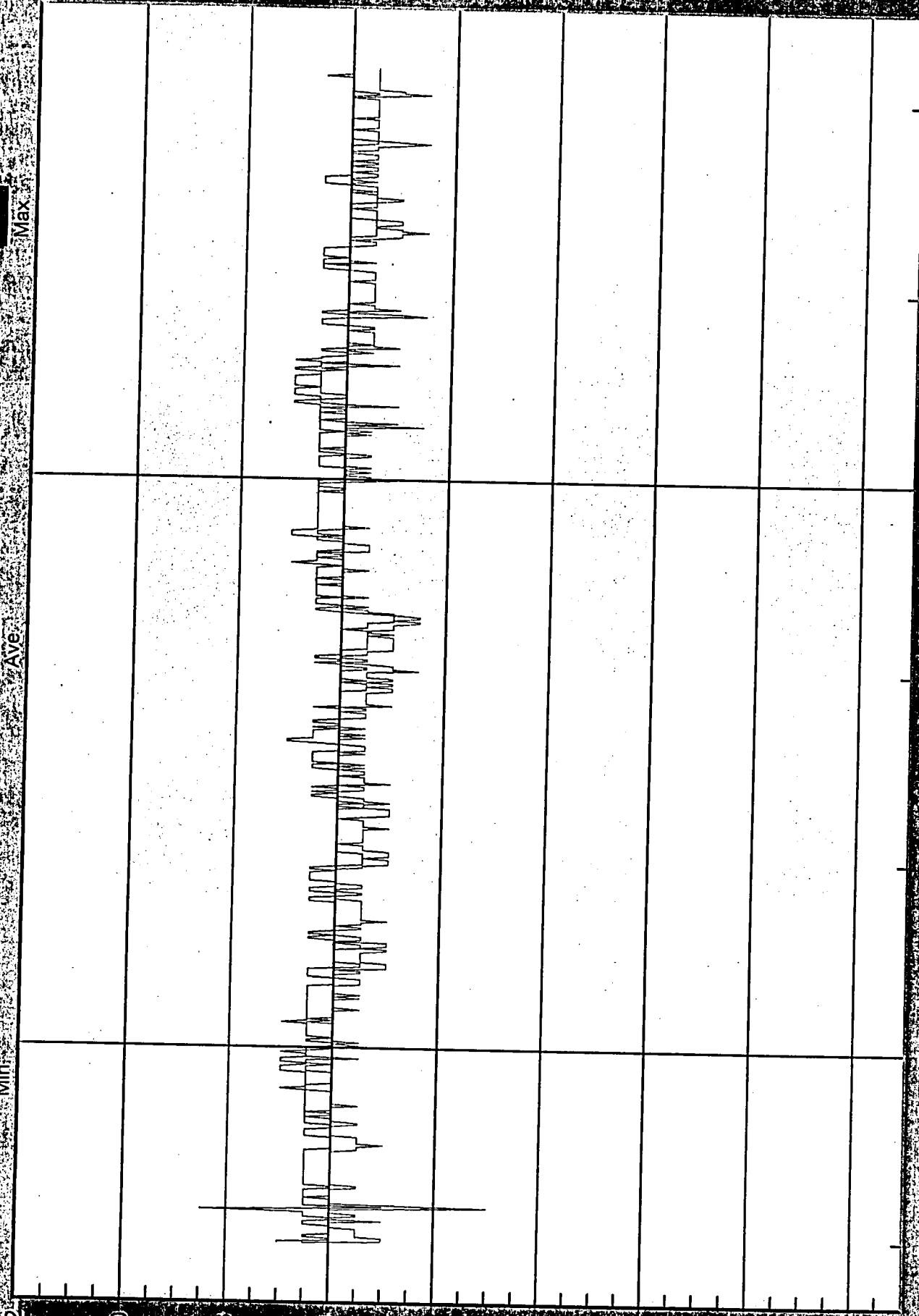
9PM

KVMS Voltage

Min

Ave

Max



6PM

9PM

Mar 17 - Mon 2014

Page 4

RMS Voltage

132

Min

Ave

Max

130

128

126

124

122

120

118

116

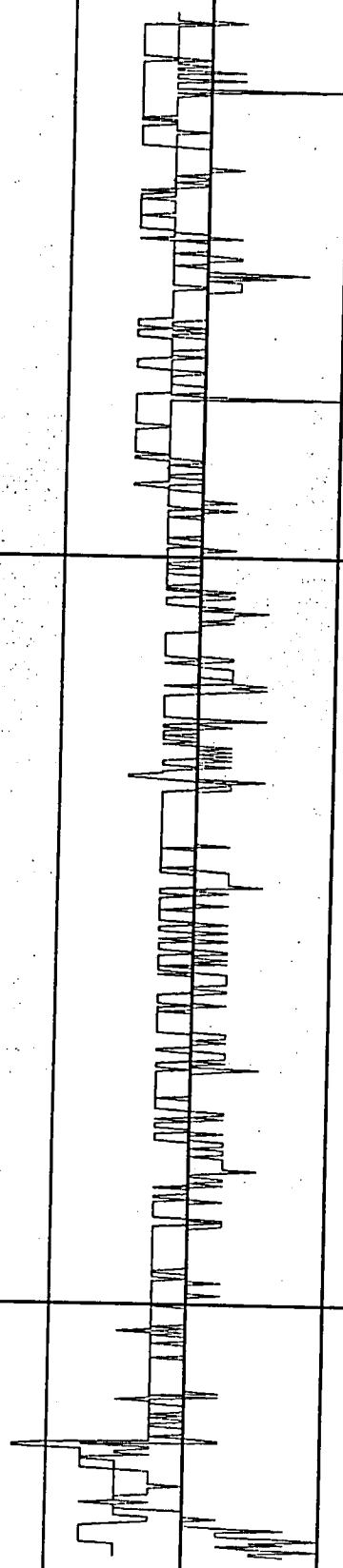
GMTV

6PM

9PM

Mar 18 Tue 2014

Page 5

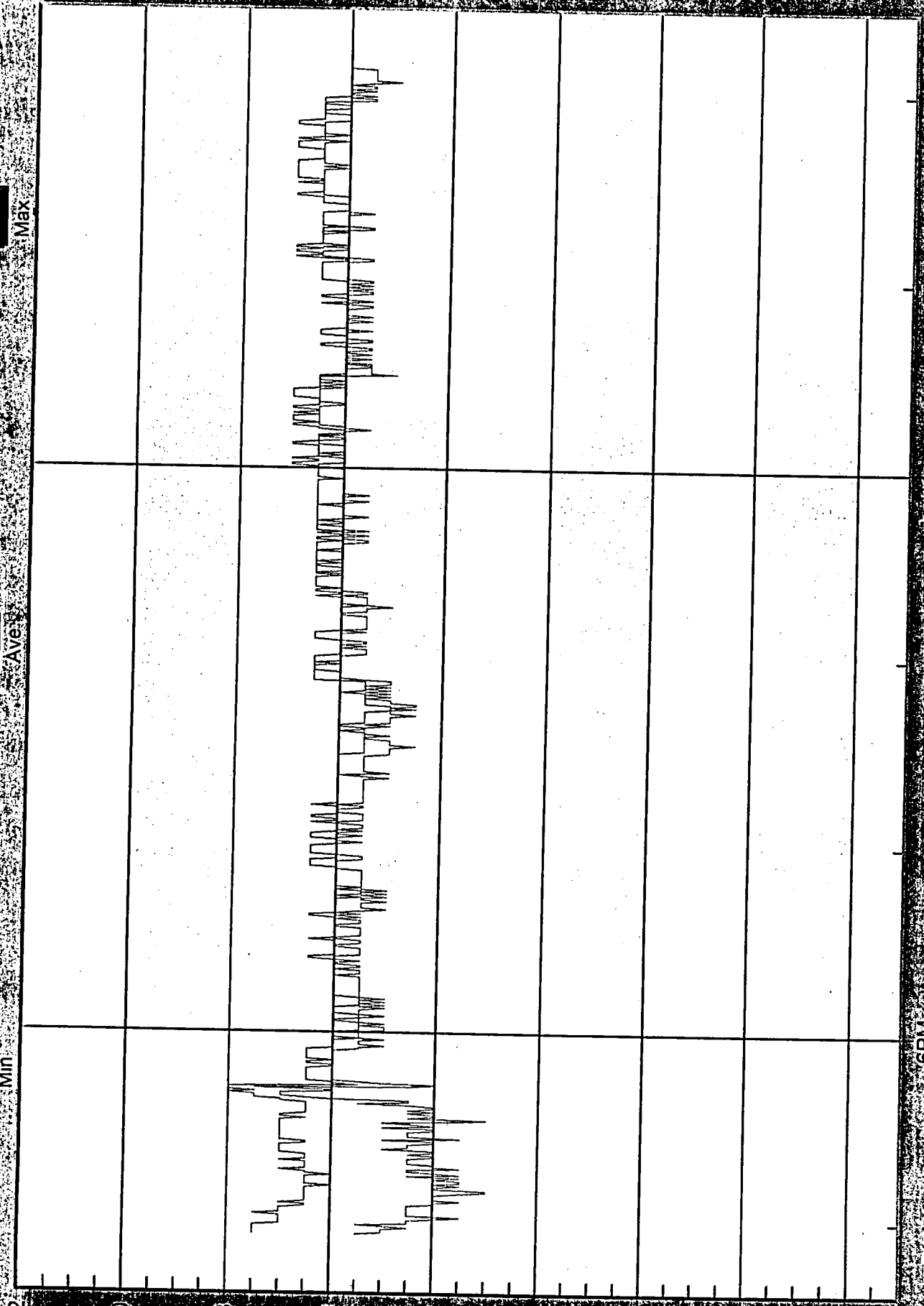


RMS Voltage

Min

Ave

Max



6PM

9PM

Mar 19 Wed 2014

RMS Voltage

Min

Ave

Max

132

130

128

126

124

122

120

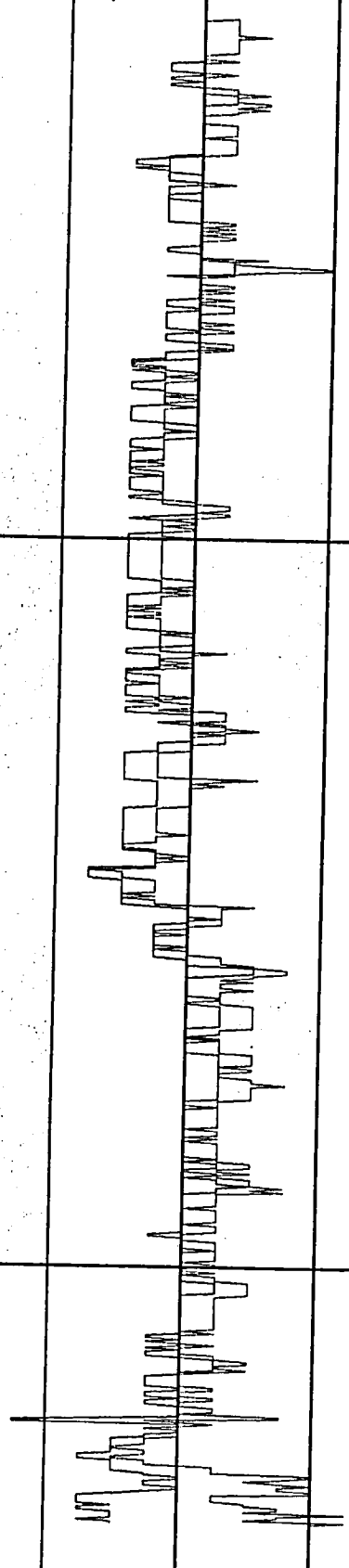
118

116

6PM

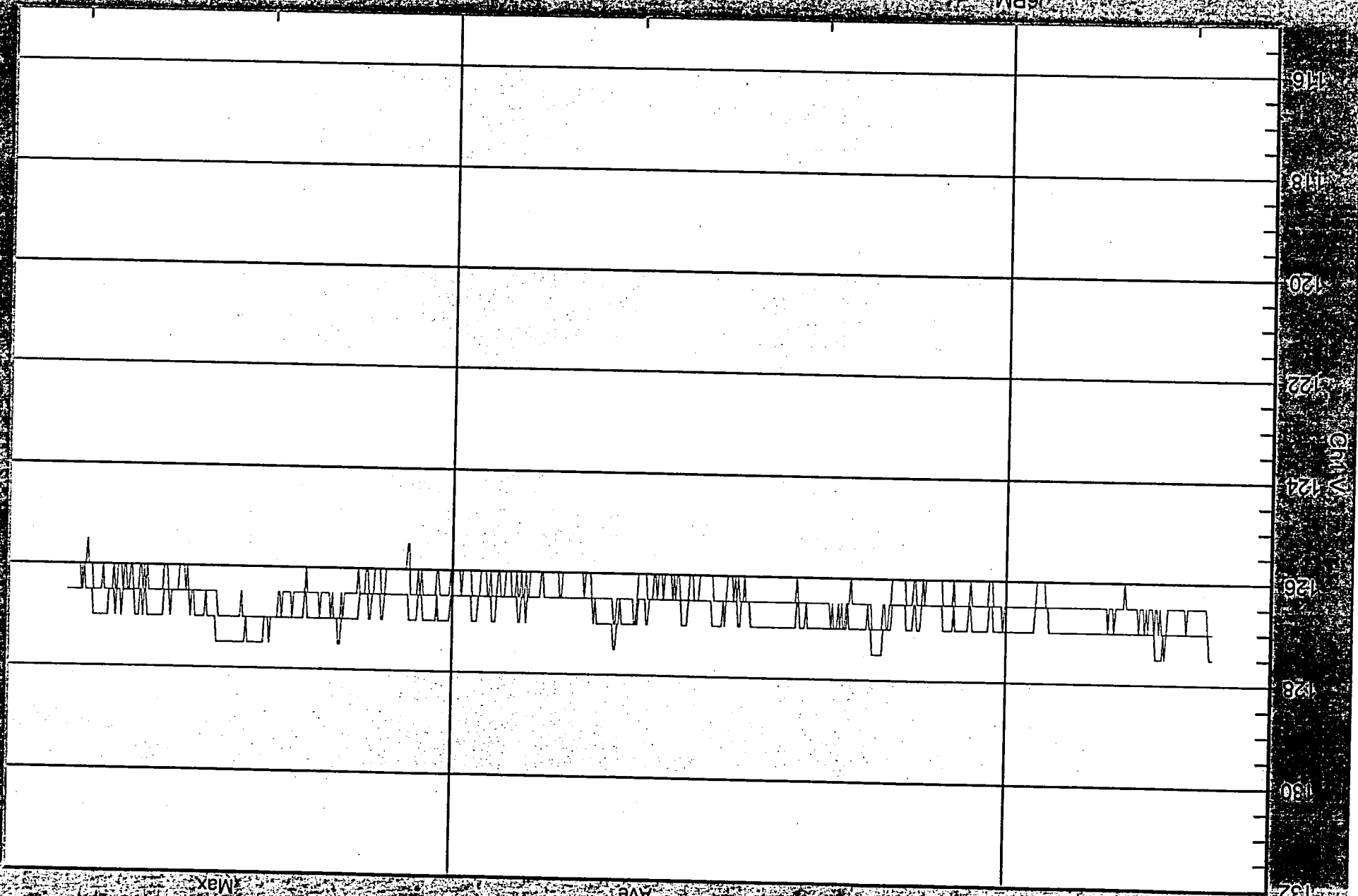
9PM

Mar-20-Thu-2014



9PM

6PM



Max

Ave

Min

RMS Voltage

116

118

120

122

124

126

128

130

132

Time

RIMS Voltage

Max

Ave

Min

132

130

128

126

124

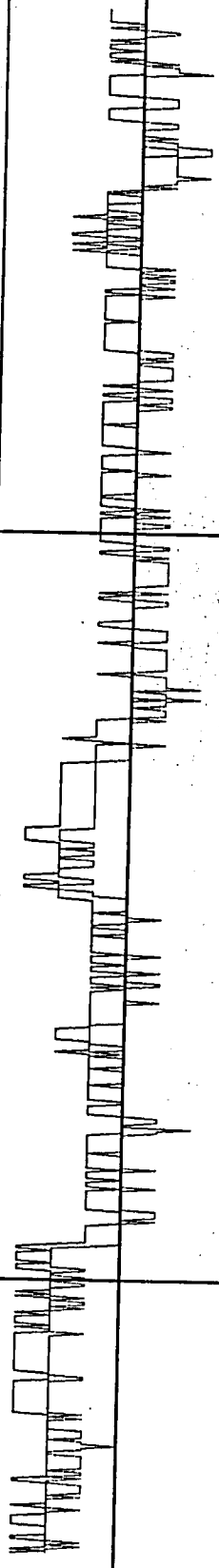
122

120

118

116

Gm.V



16PM

9PM

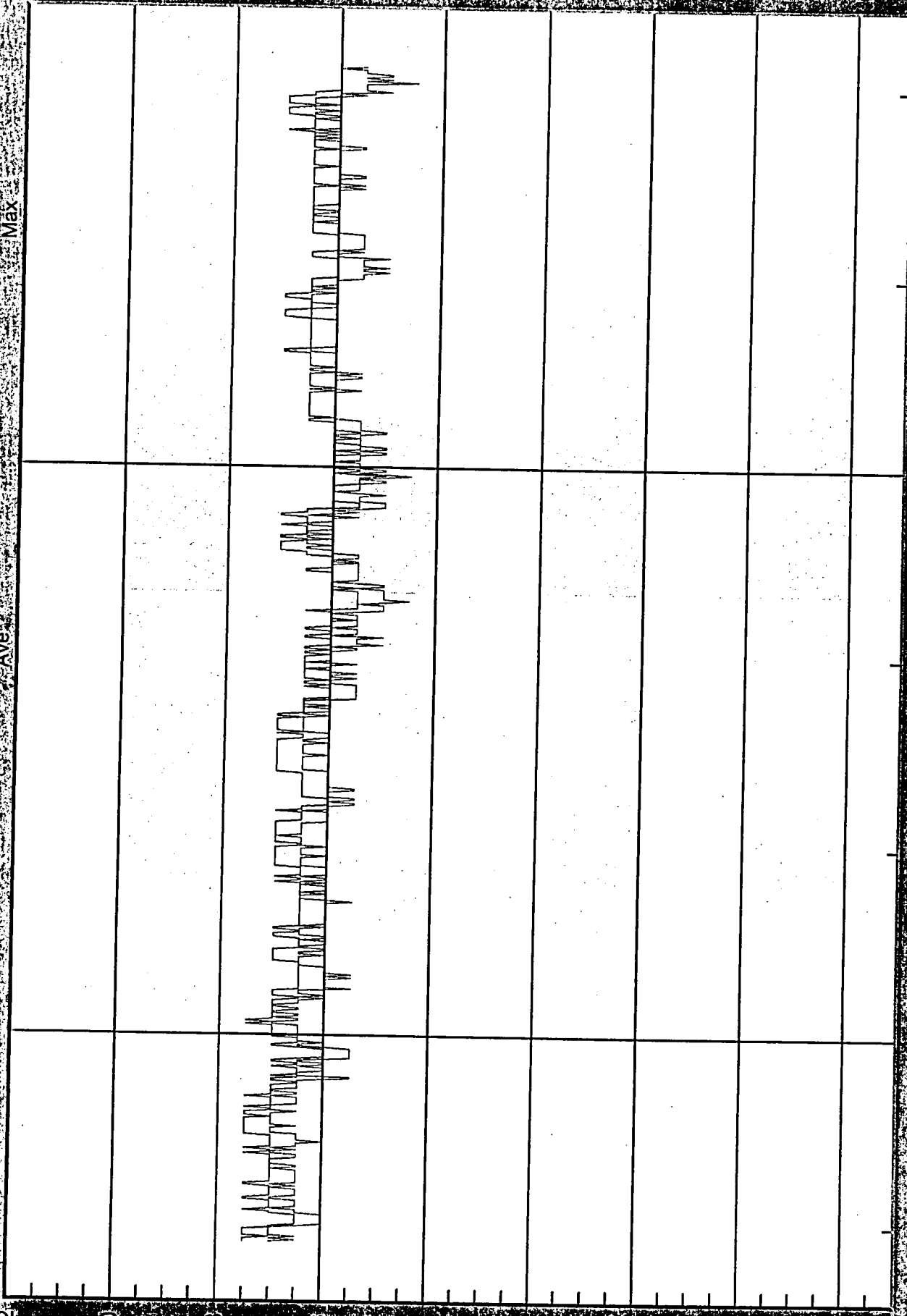
Mar-22 Sat-2014

RMS Voltage

Max

Ave

Min



9PM

6PM

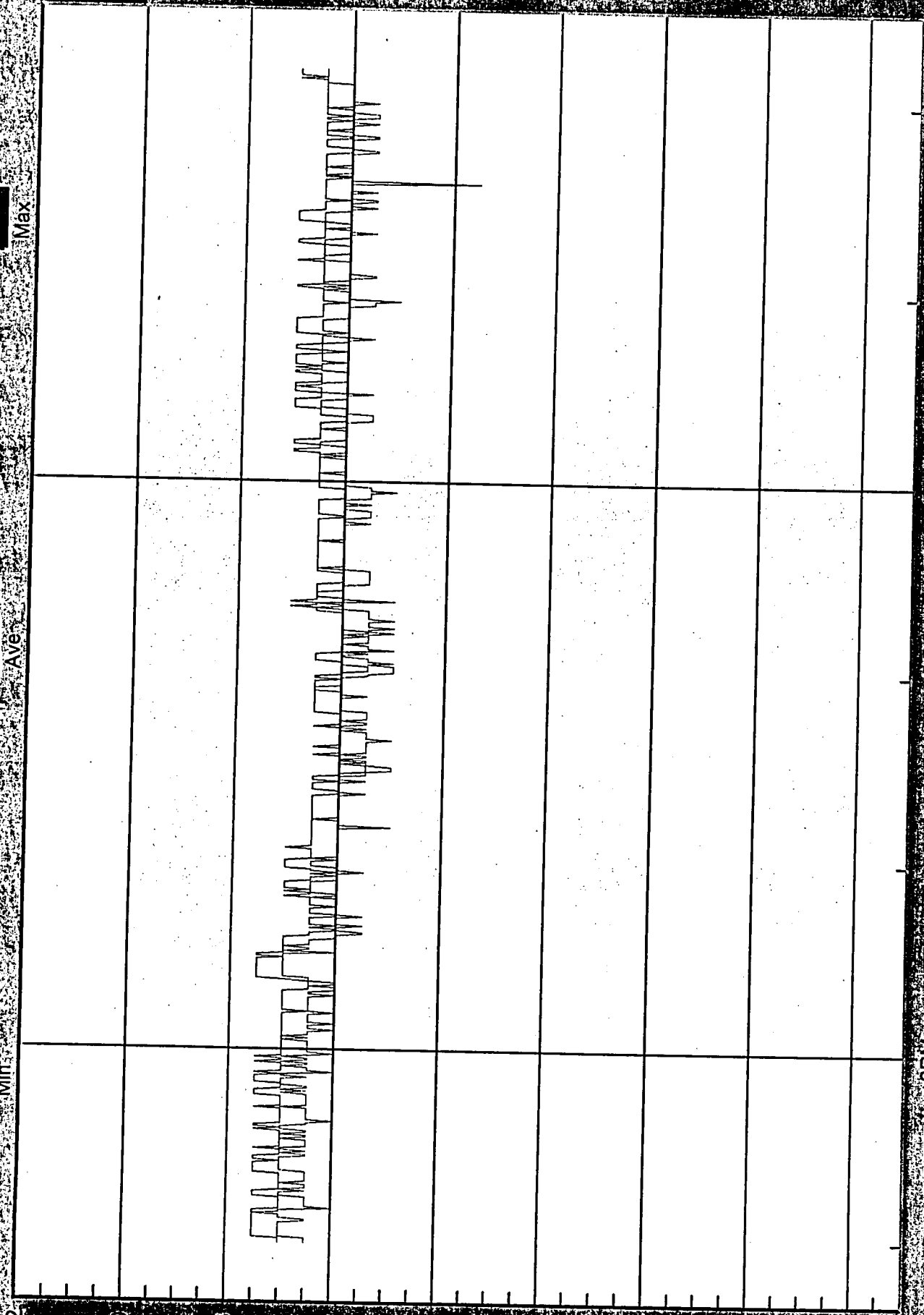
Mar 23 Sun 2014

KVMS Voltage

Ave

Min

Max



9PM

6PM

Mar 24 Mon 2014

RMS Voltage

Max

Ave

Min

132

130

128

126

124

122

120

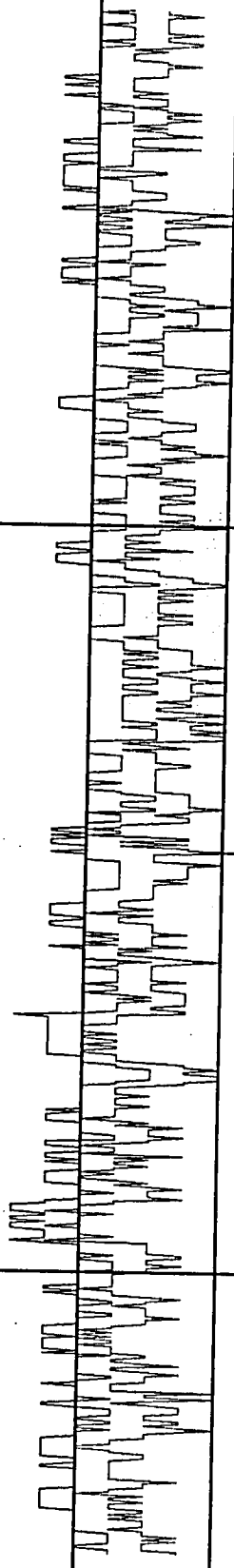
118

116

6PM

9PM

Mar 25 Tue 2014

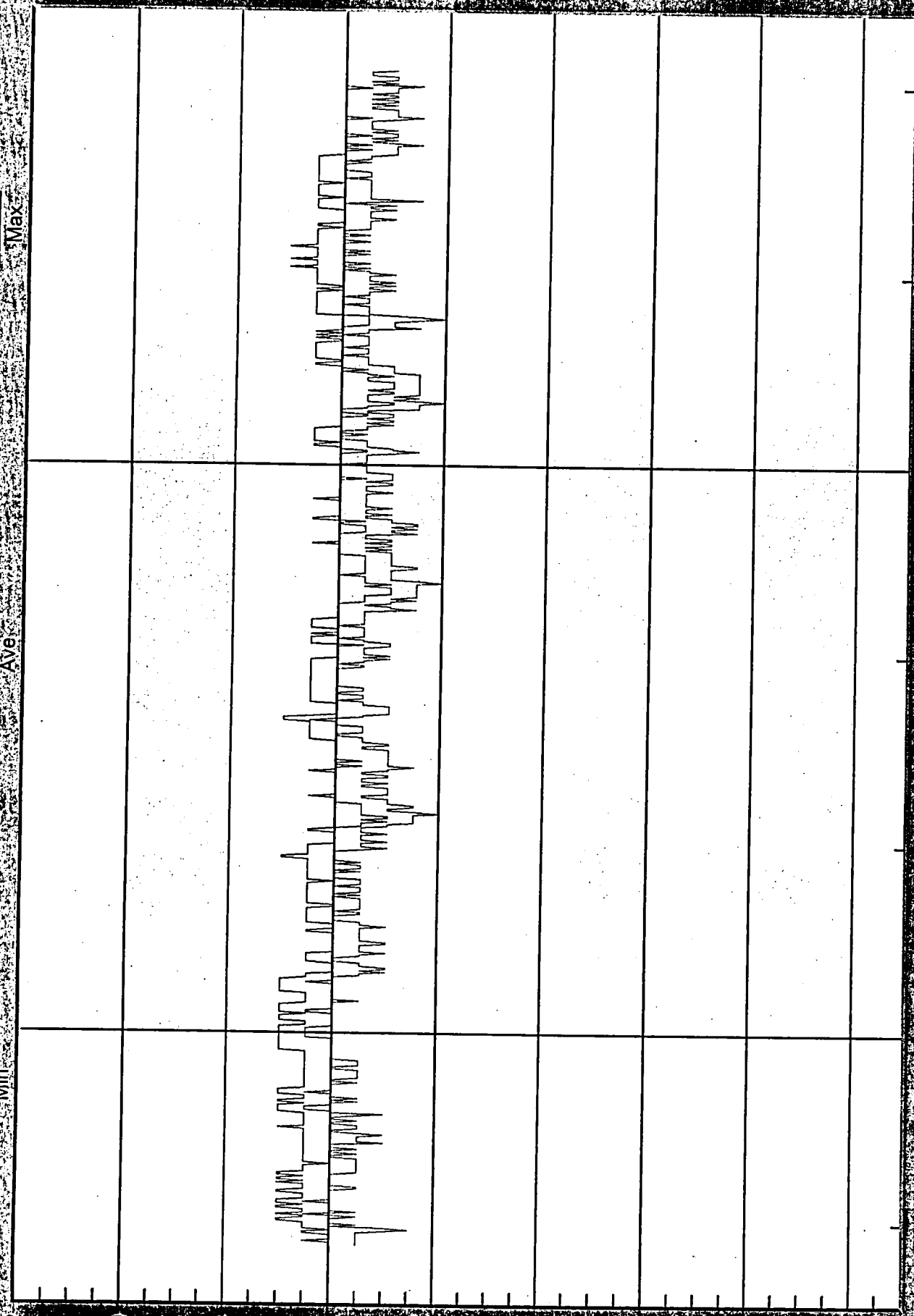


RMS Voltage

Min

Ave

Max



Mar 26 Wed 2014

6PM

9PM

RMS Voltage

Max

Ave

Min

132

130

128

126

124

122

120

118

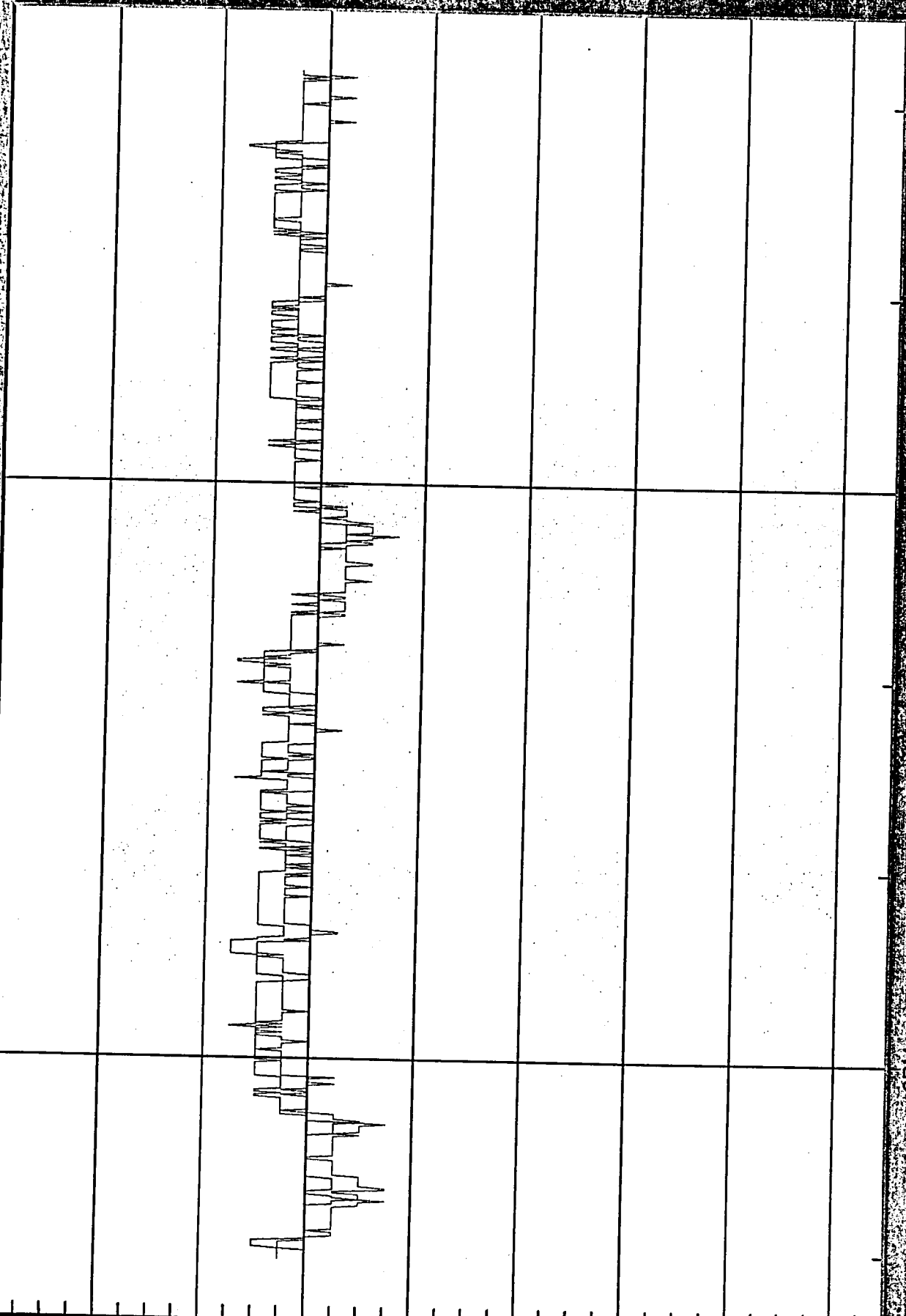
116

CH1 V

9PM

6PM

Mar 27 Thu 2014

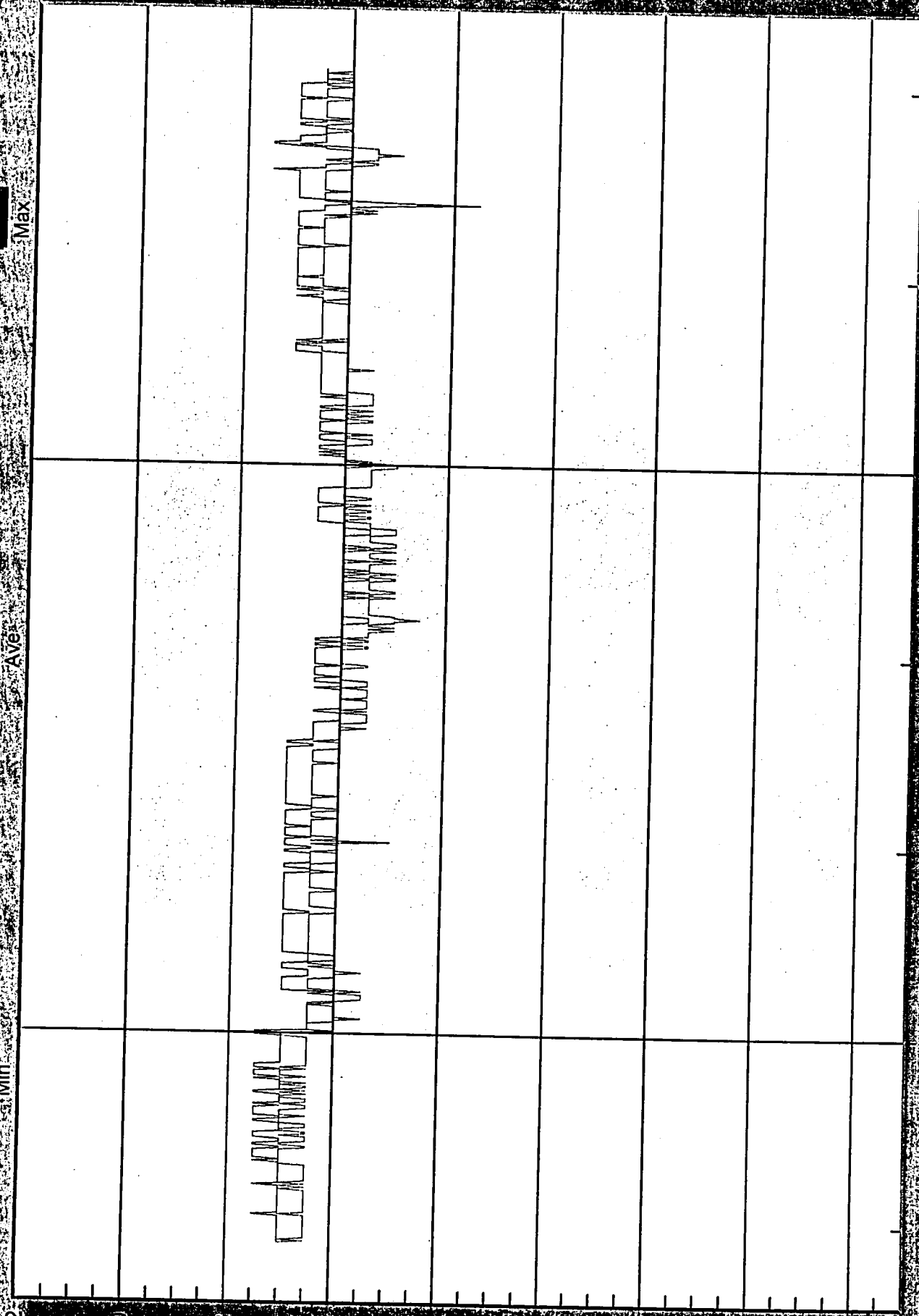


RMS Voltage

Min

Ave

Max



132

130

128

126

124

122

120

118

116

6PM

9PM

Mar 28 Fri 2014

RMS Voltage

Max

Ave

Min

132

130

128

126

124

122

120

118

116

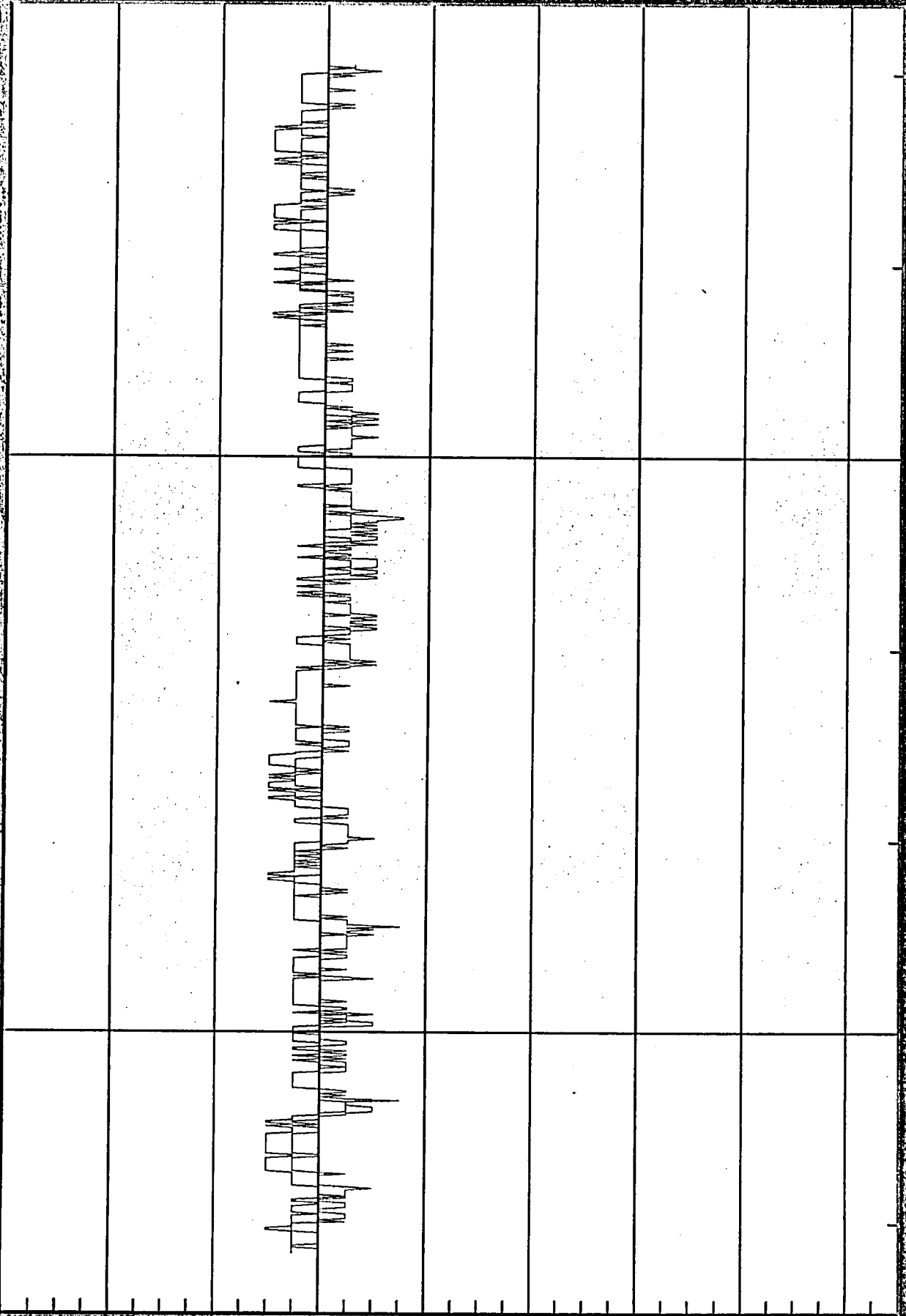
GMV

9PM

6PM

Mar 29 Sat 2014

Page 16



RMS Voltage

Min

Ave

Max

132

130

128

126

124

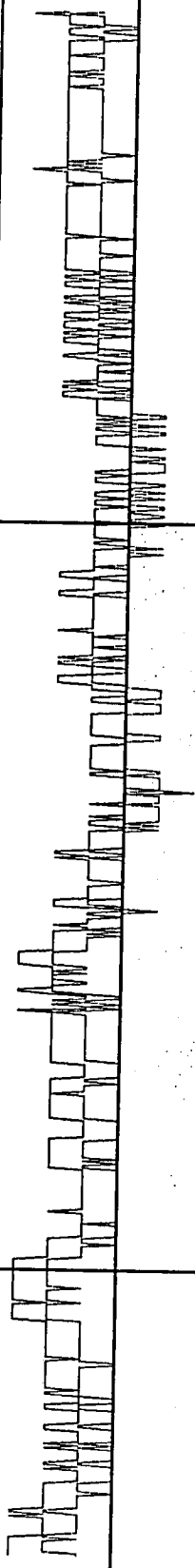
122

120

118

116

AVG



6PM

9PM

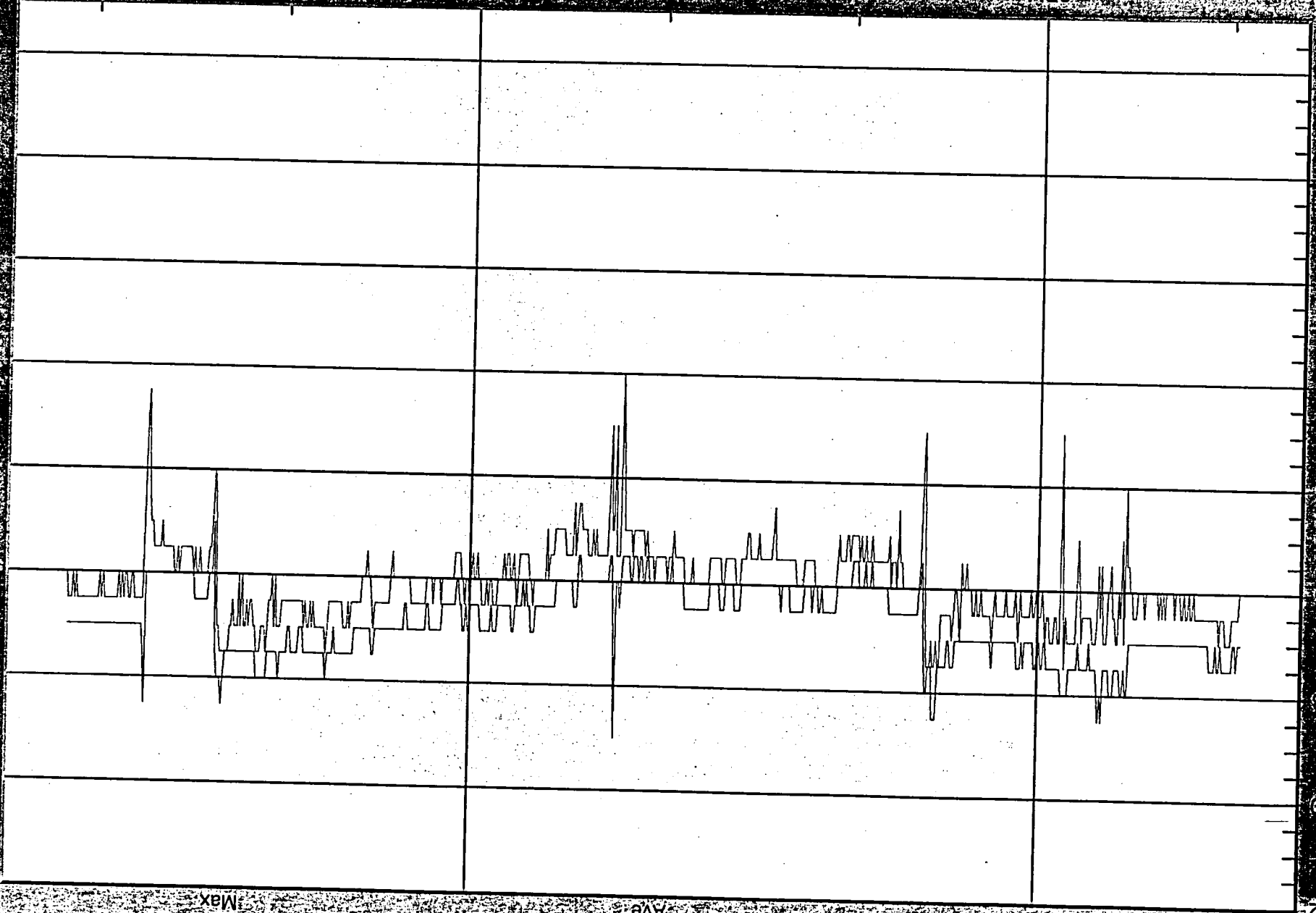
Mar 30 Sun 2014

Rose 18

Mar 31 Mon 2014

9PM

6PM



Max

Ave

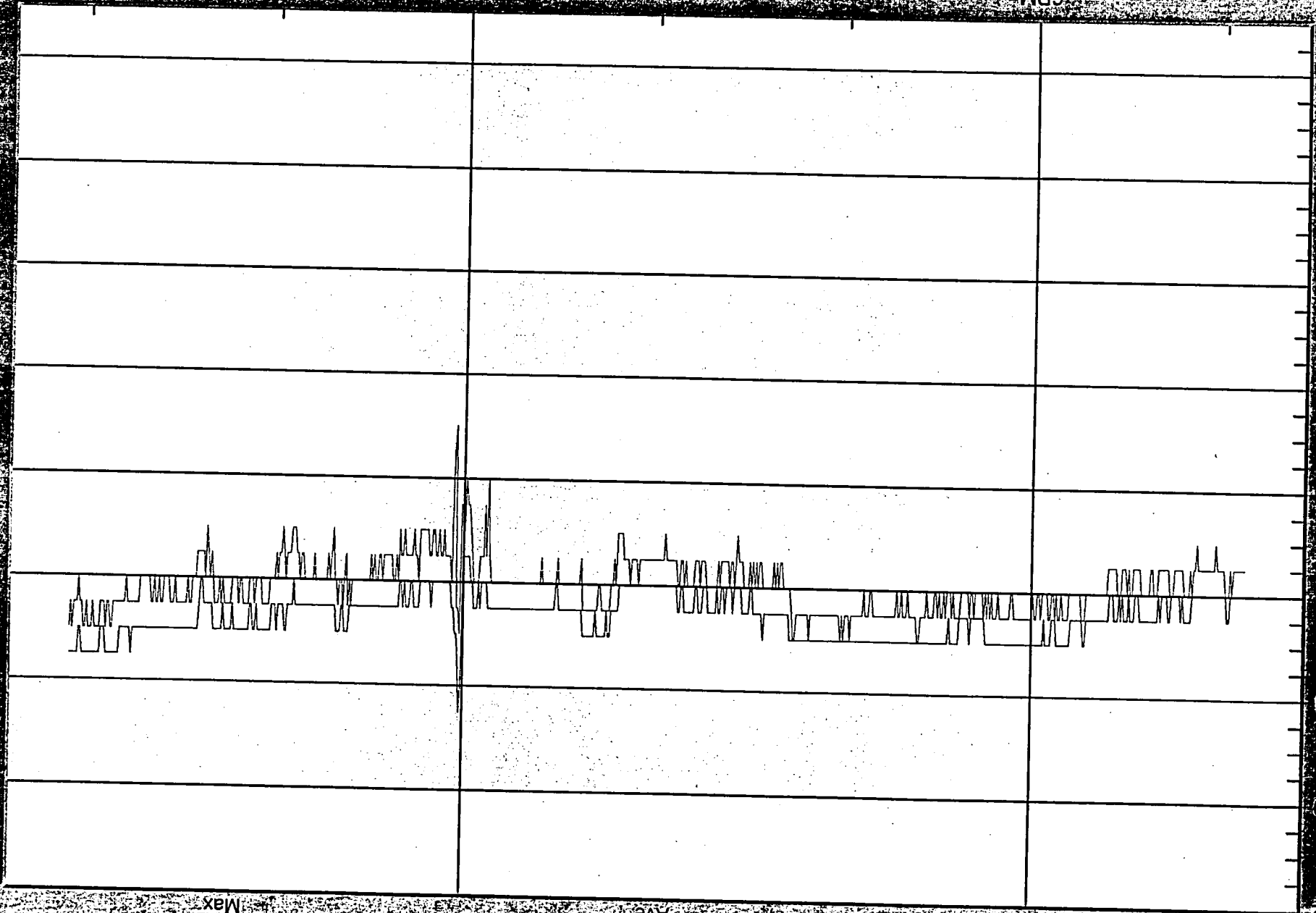
Min

RMS Voltage

116
118
120
122
124
126
128
130
132

9PM

6PM



116

118

120

122

124

126

128

130

132

RMS V

Max

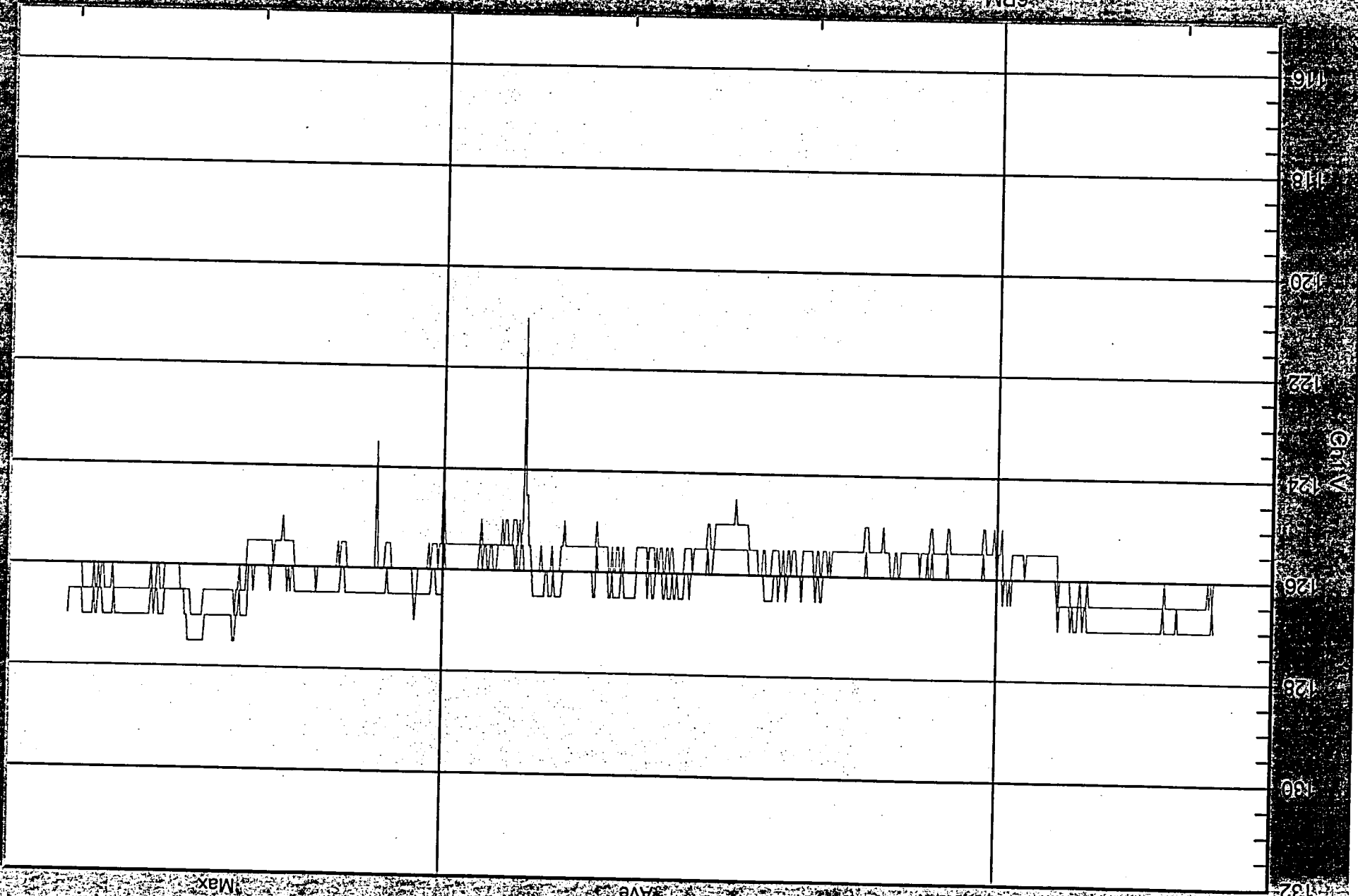
Ave

Min

RMS Voltage

9PM

6PM



Max

Ave

Min

RMS Voltage

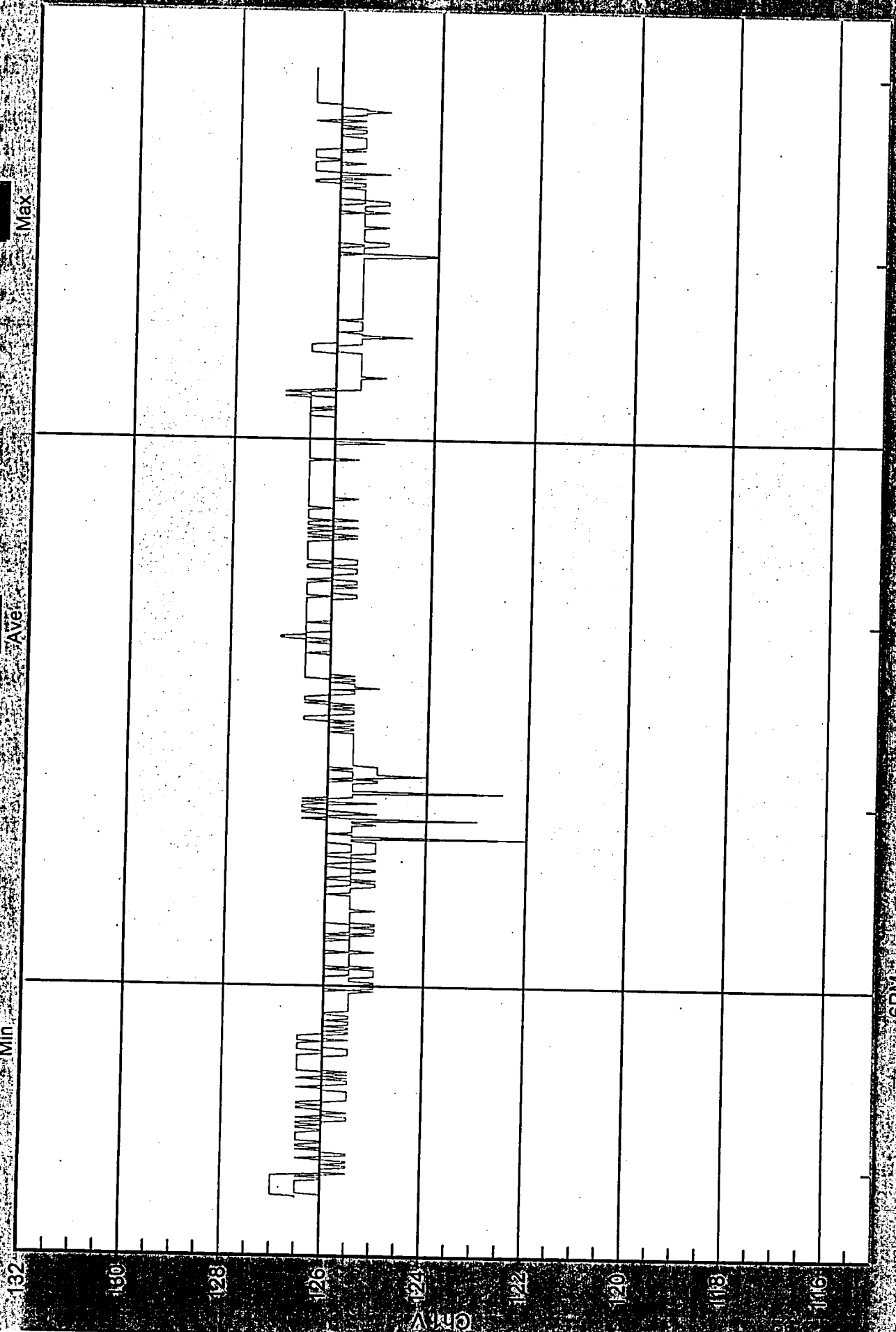
116
118
120
122
124
126
128
130
132

RMS Voltage

Min

Ave

Max



9PM

6PM

Apr 3 Thu 2014

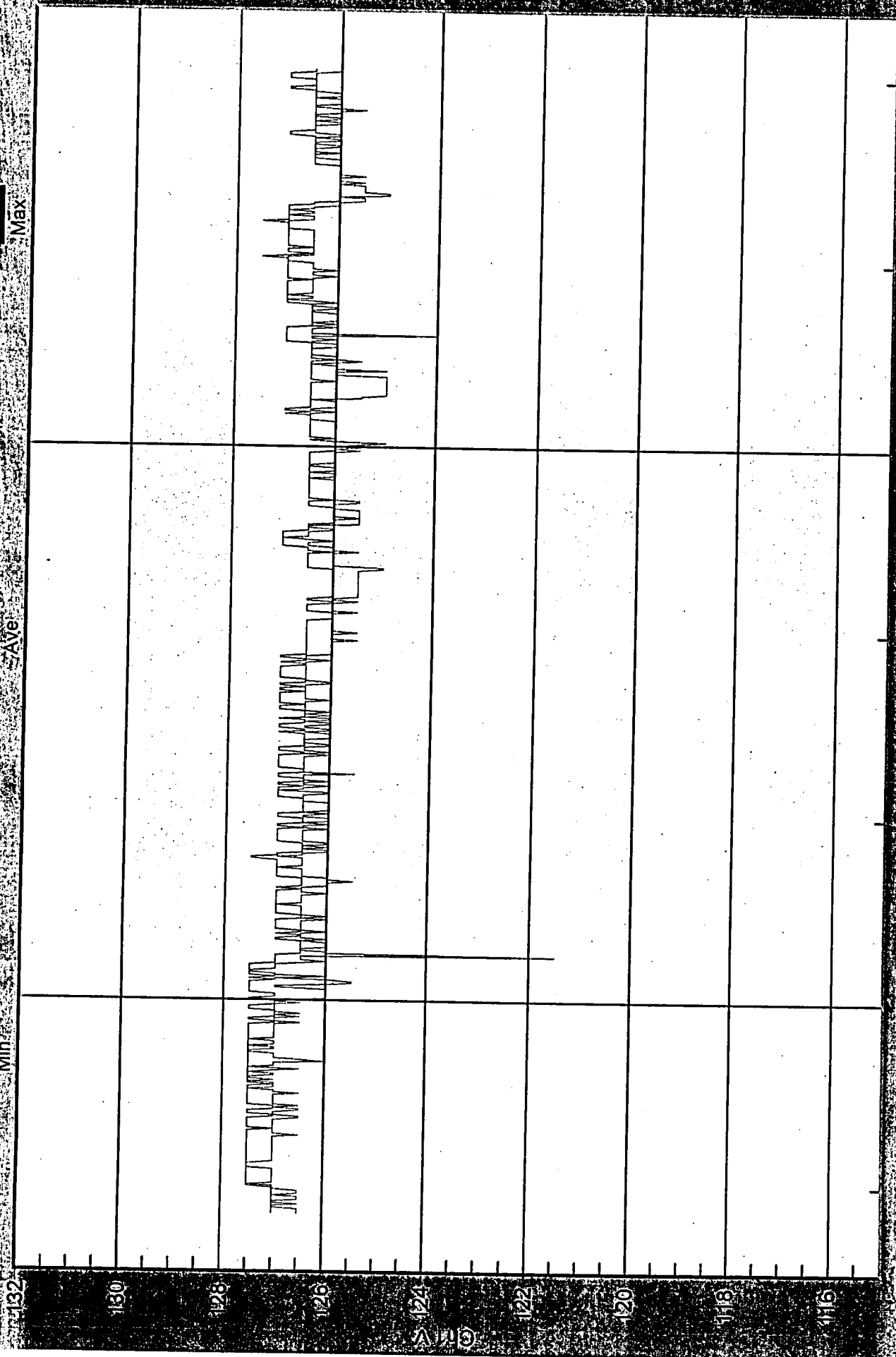
Page 21

RMS Voltage

Min

Ave

Max



Apr 4 Fri 2014

6PM

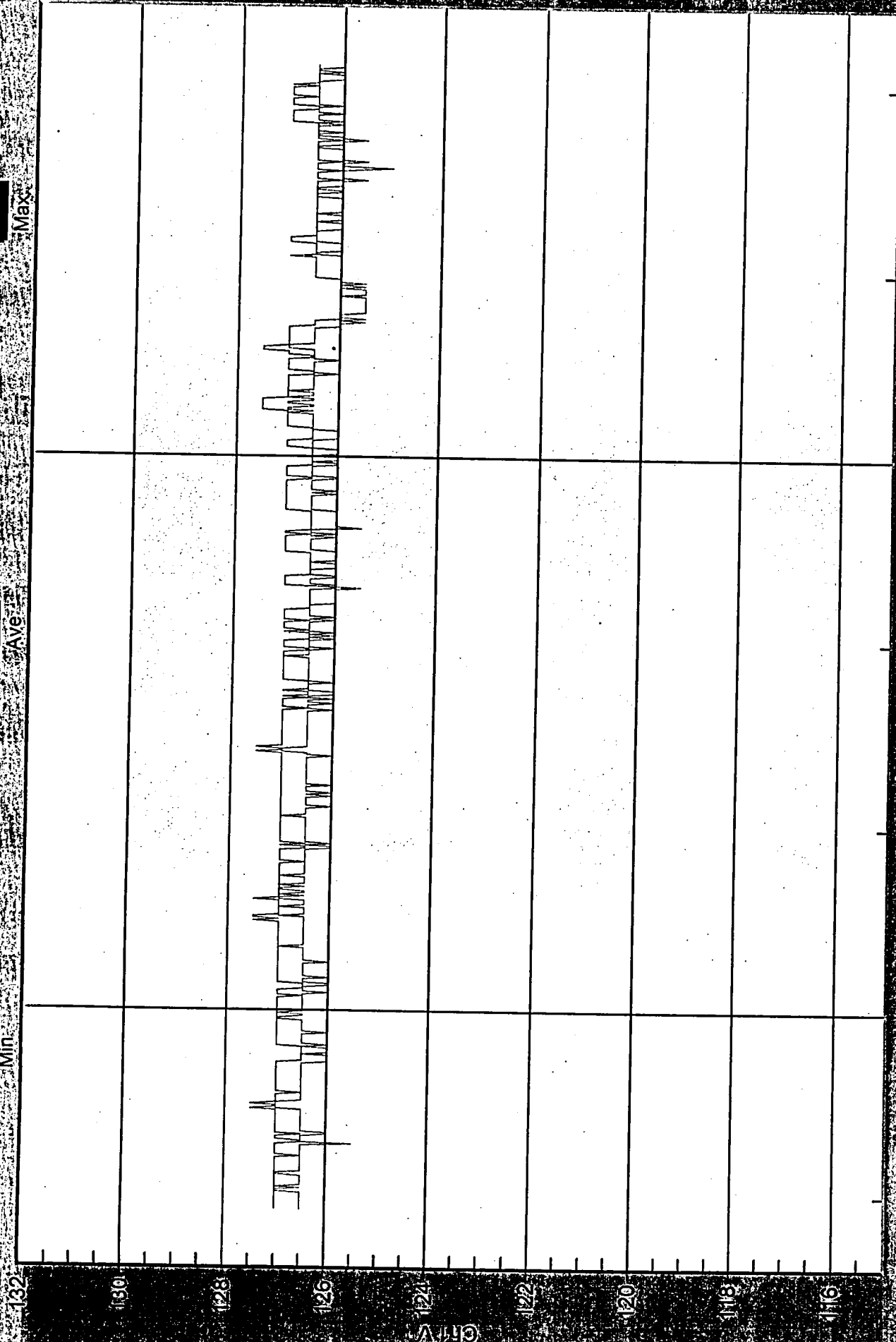
9PM

RMS Voltage

Min

Ave

Max



9PM

6PM

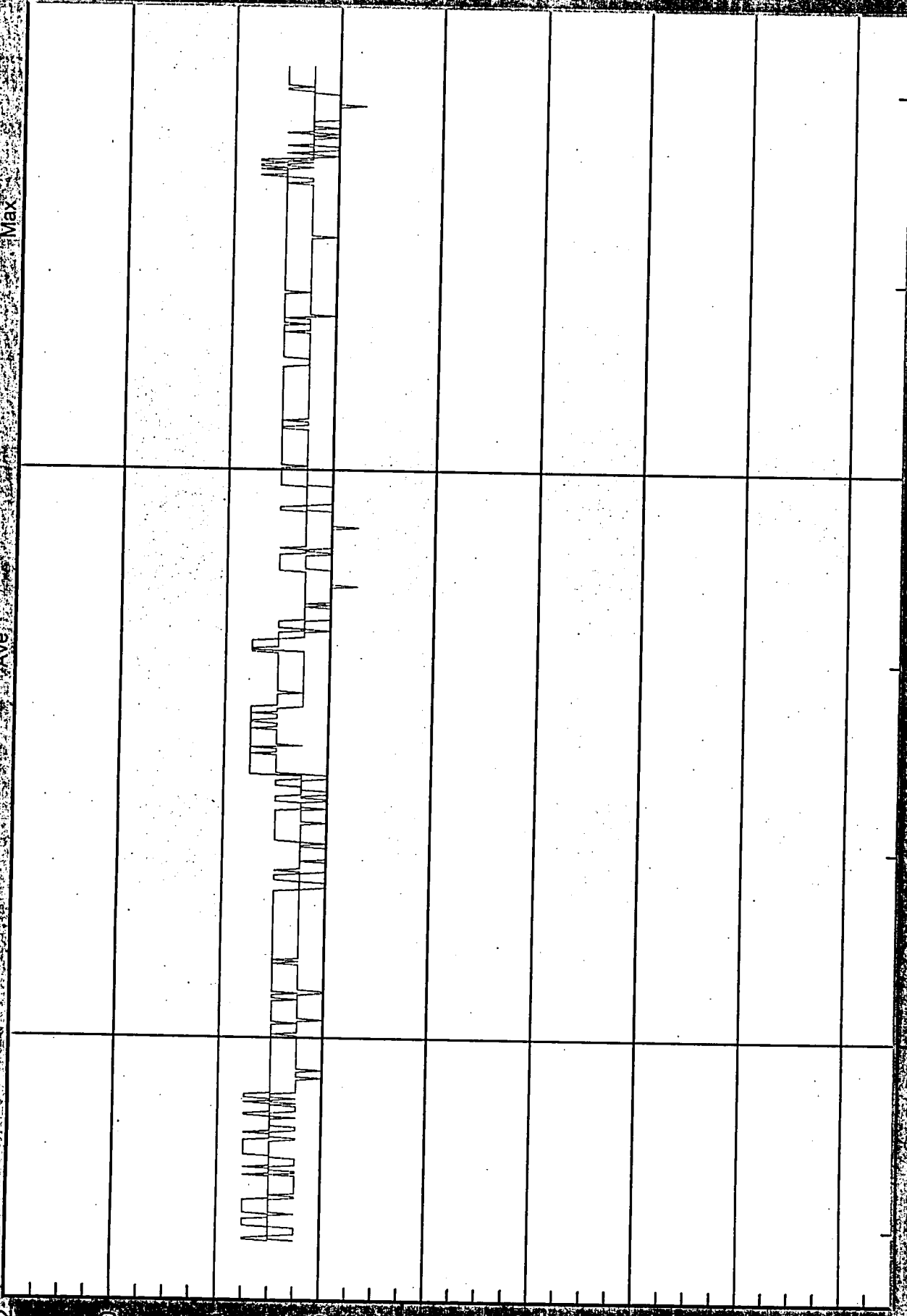
Apr 5 Sat 2014

RMS Voltage

Min

Ave

Max



6PM

9PM

Apr 6 Sun 2014

RMS Voltage

Min

Ave

Max

132

130

128

126

124

122

120

118

116

GMTV

6PM

9PM

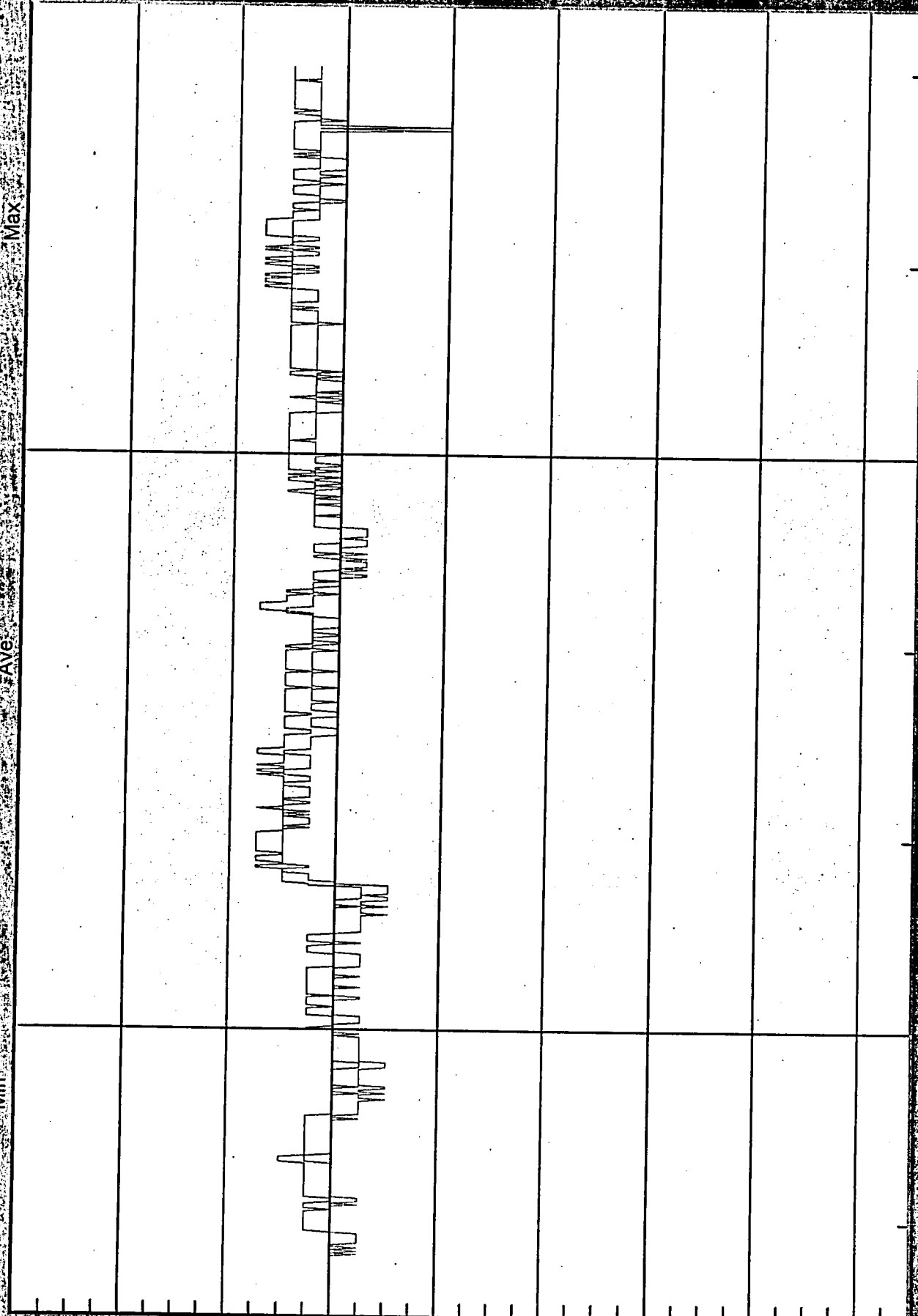
Apr 7 Mon 2014

RMS Voltage

Min

Ave

Max



6PM

9PM

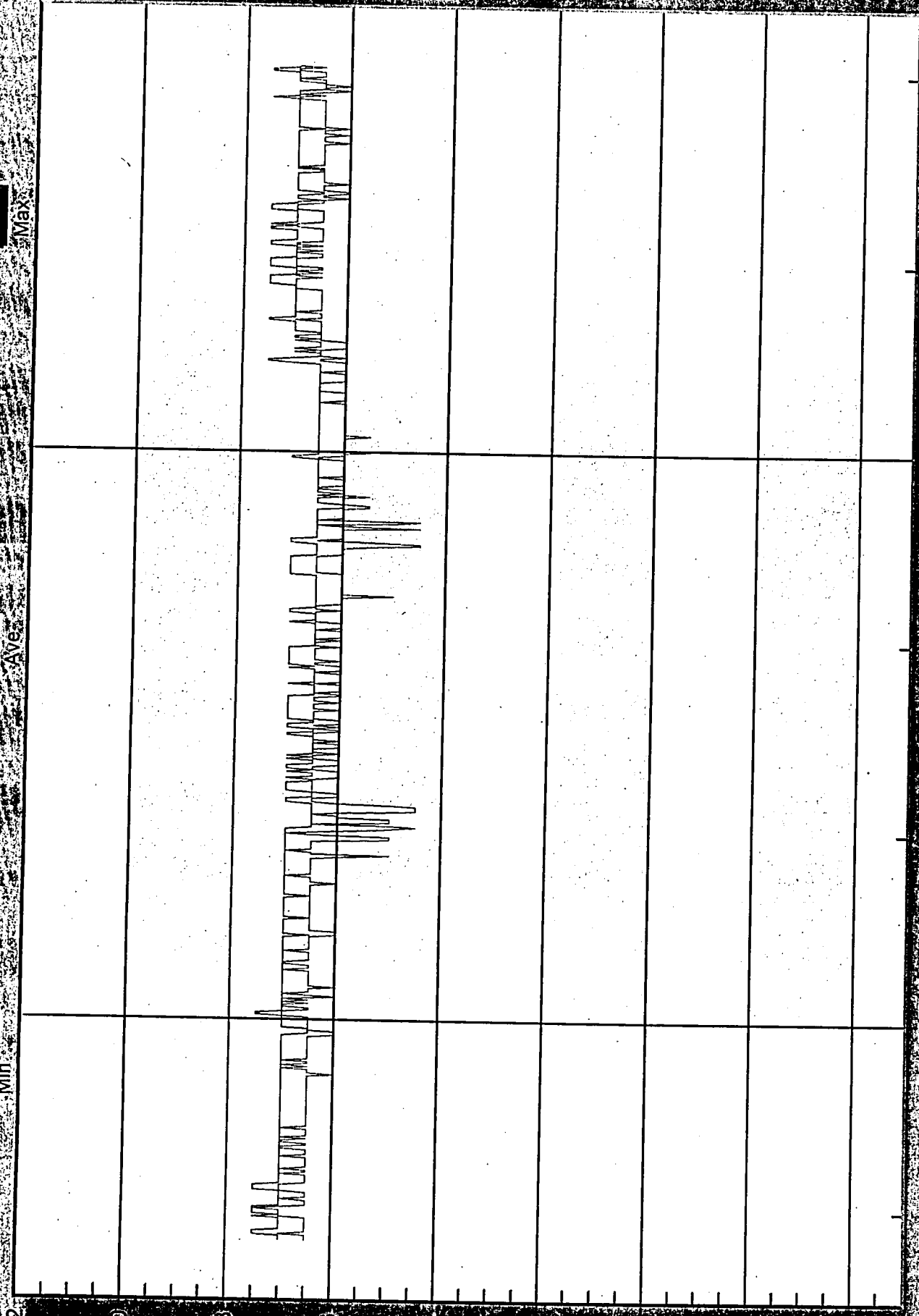
Apr 8 Tue 2014

RMS Voltage

Min

Ave

Max



6PM

9PM

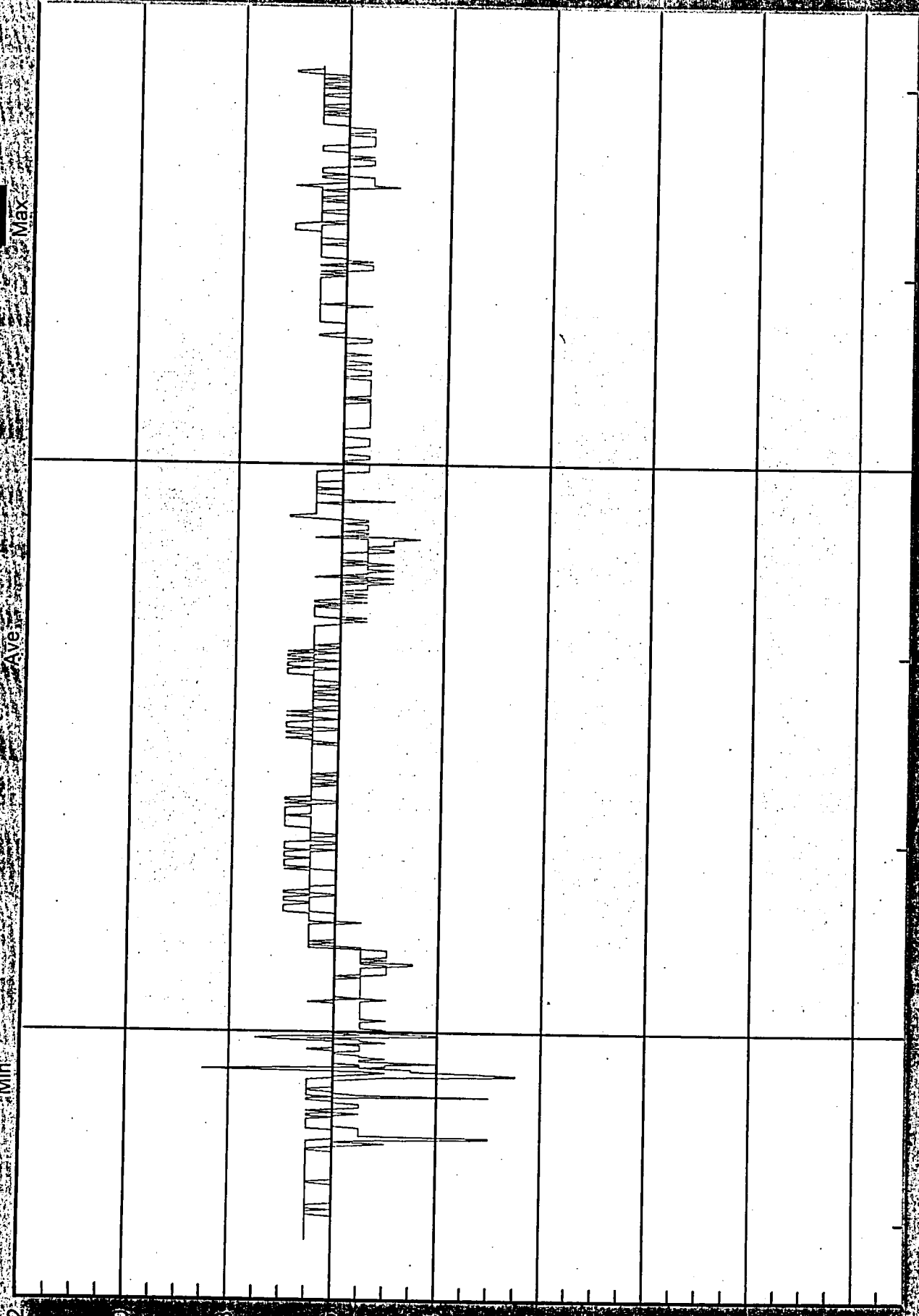
Apr 9 Wed 2014

RMS Voltage

Min

Ave

Max



9PM

6PM

Apr 10 Thu 2014

RMS Voltage

Min

Ave

Max

132

130

128

126

124

122

120

118

116

Ch1 V

6PM

9PM

April 11 Fri 2014

Page 29

KVMS Voltage

Min

Ave

Max

132

130

128

126

124

122

120

118

116

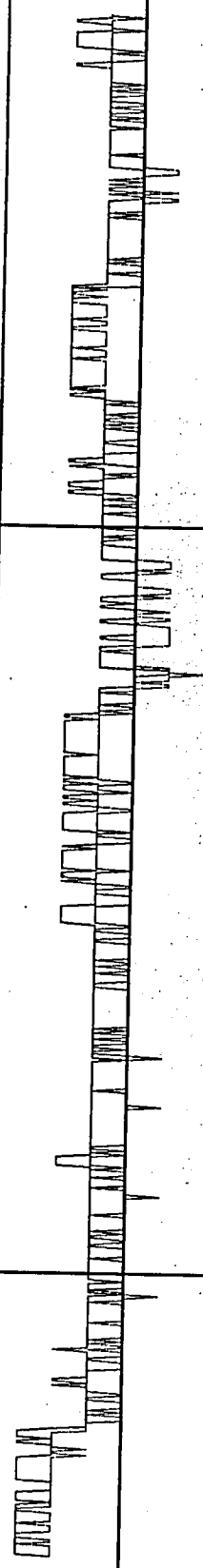
GPM

6PM

9PM

Apr 12 Sat 2014

Page 30

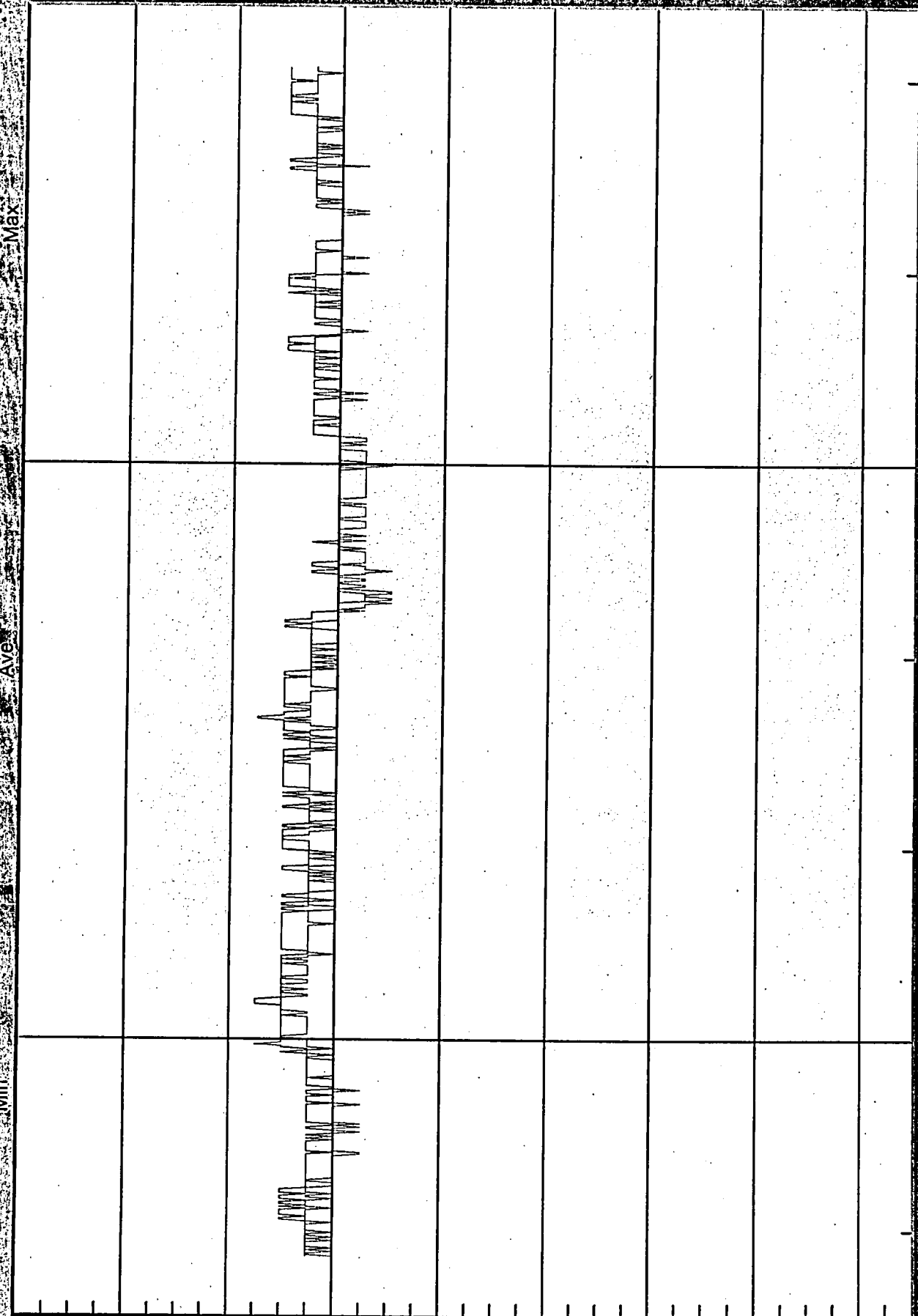


100mV voltage

Min

Ave

Max



132

130

128

126

124

122

120

118

116

CH1 V

6PM

6PM

Apr 13 Sun 20:14

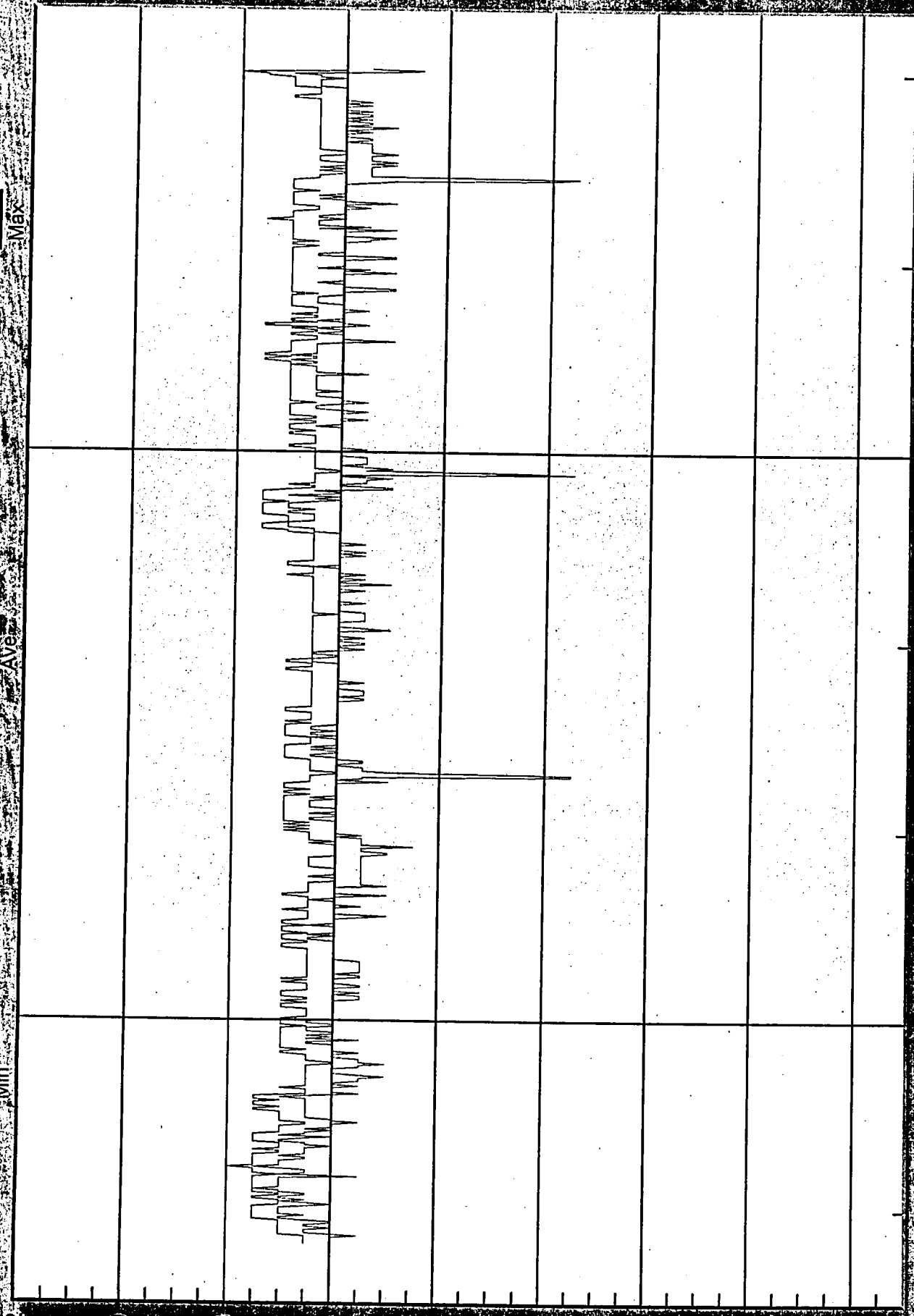
Page 31

RMS Voltage

Max

Ave

Min

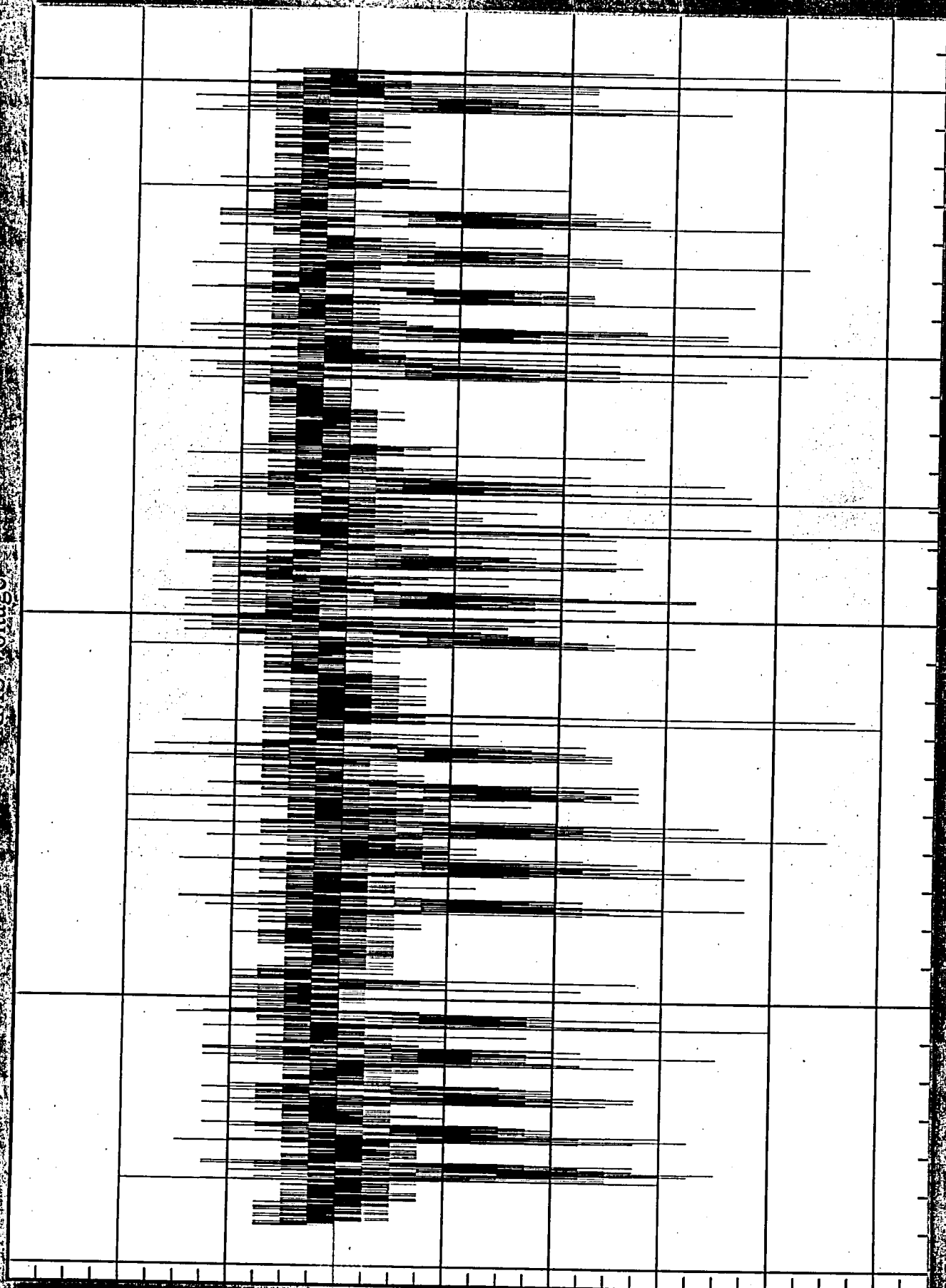


6PM

6PM

Apr 14 Mon 2014

RMS Voltage



15 Sat
Mar 2014

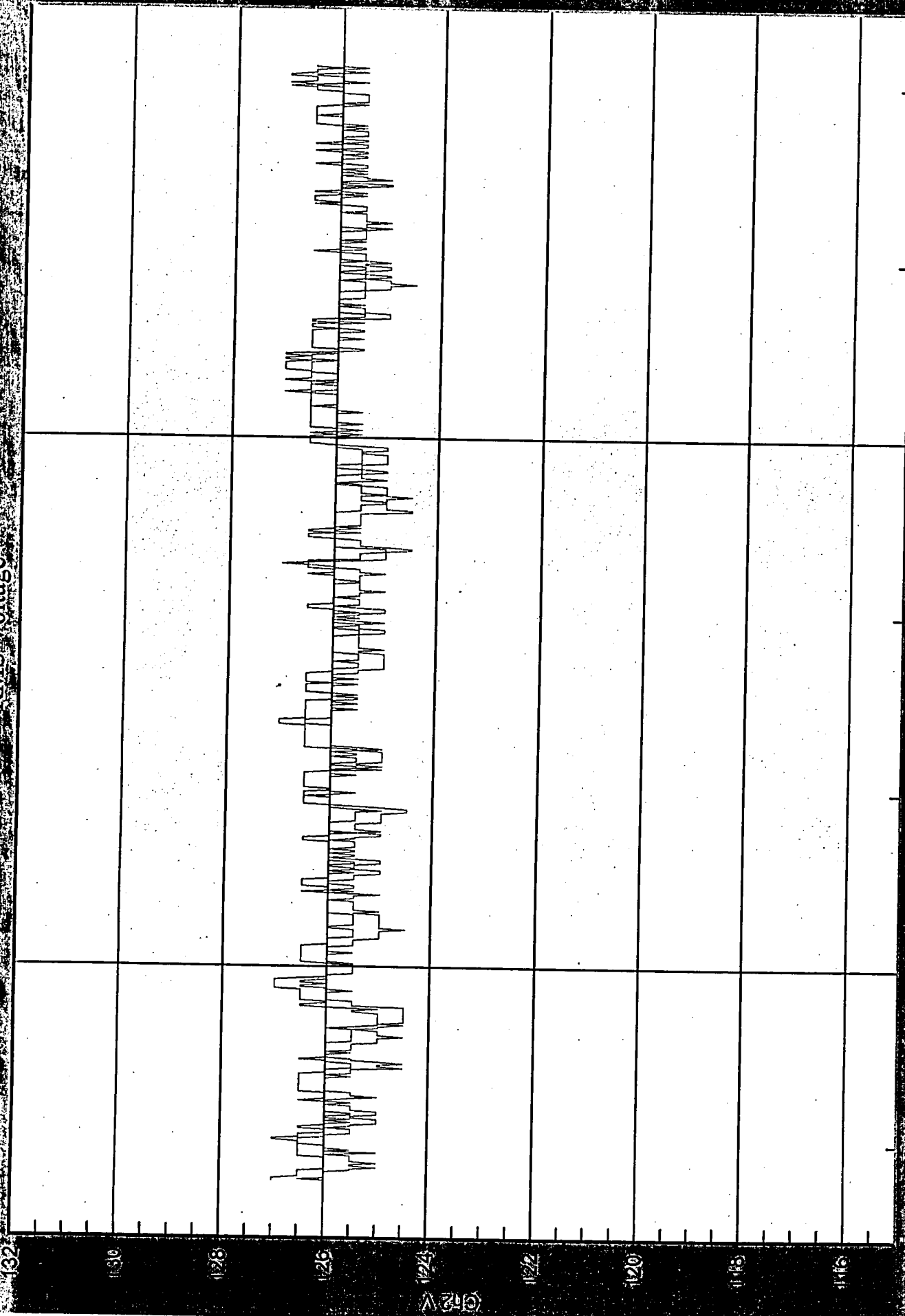
22 Sat

1 Tue

8 Tue

15 Tue

RMS Voltage



012V

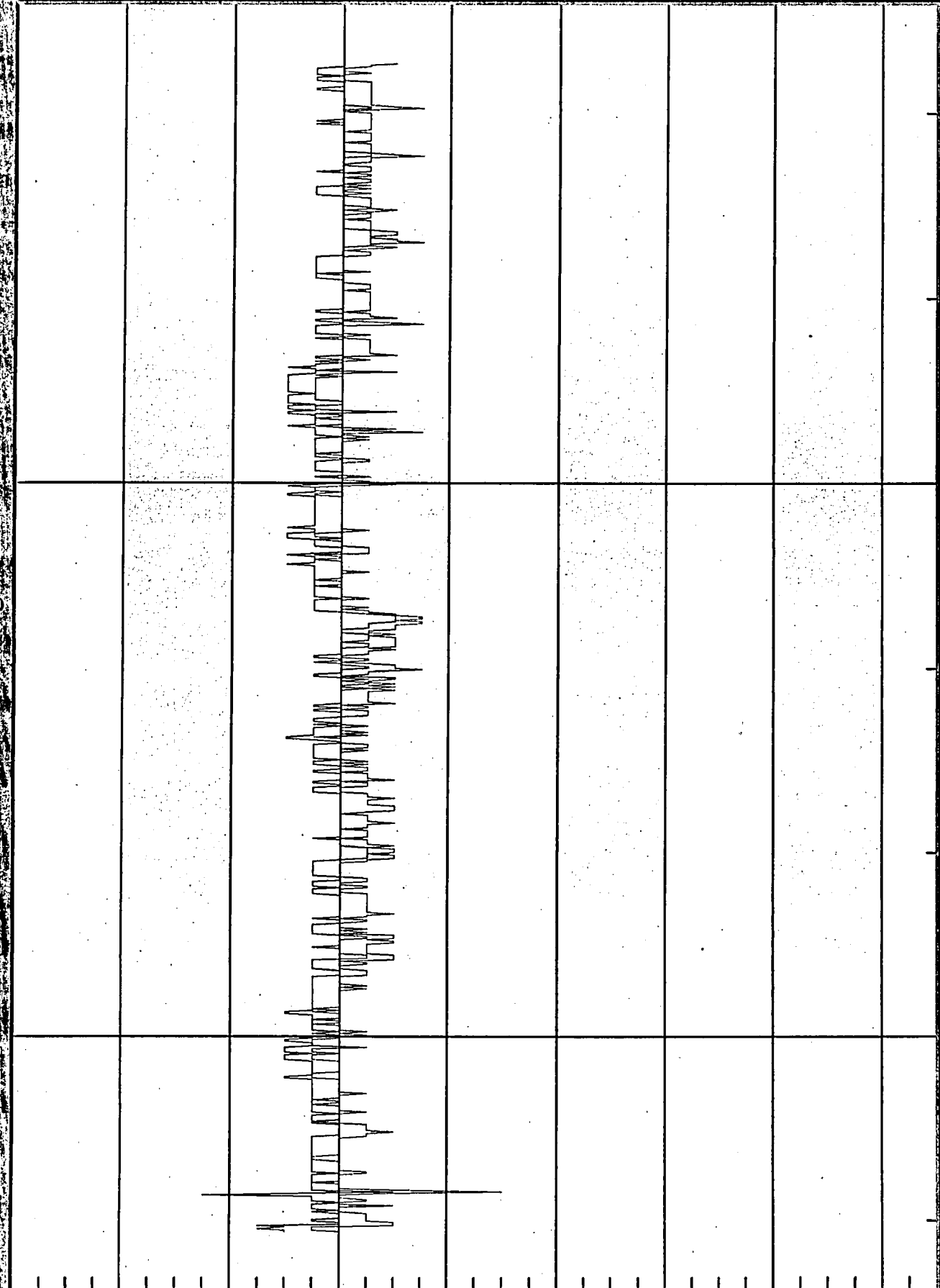
9PM

6PM

Mar 16 Sun 2014

Page 37

RMS Voltage



1:30

1:28

1:26

1:24

1:22

1:20

1:18

1:16

Ch2 V

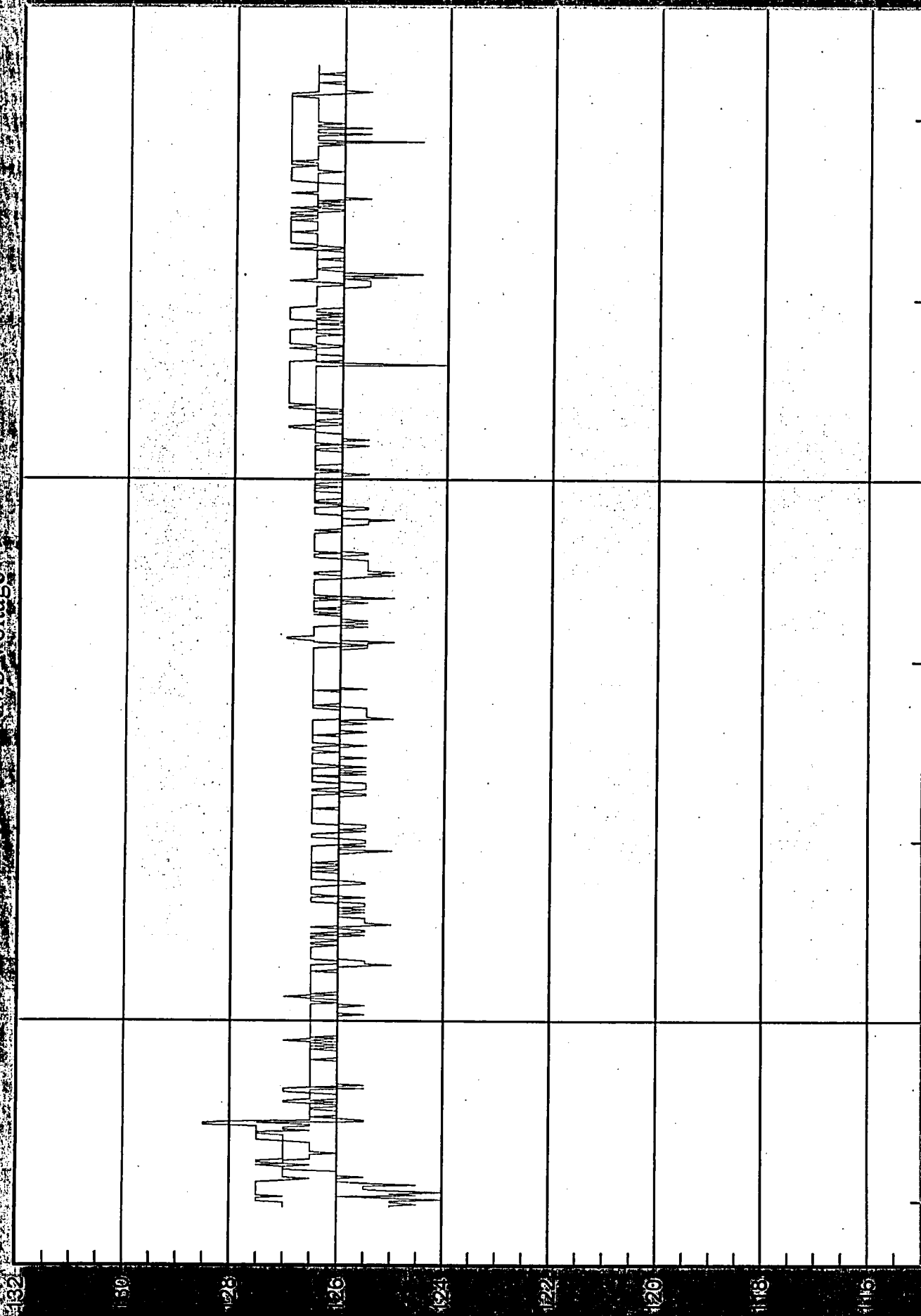
9PM

6PM

Mar 17 Mon 2014

Page 35

RMS Voltage

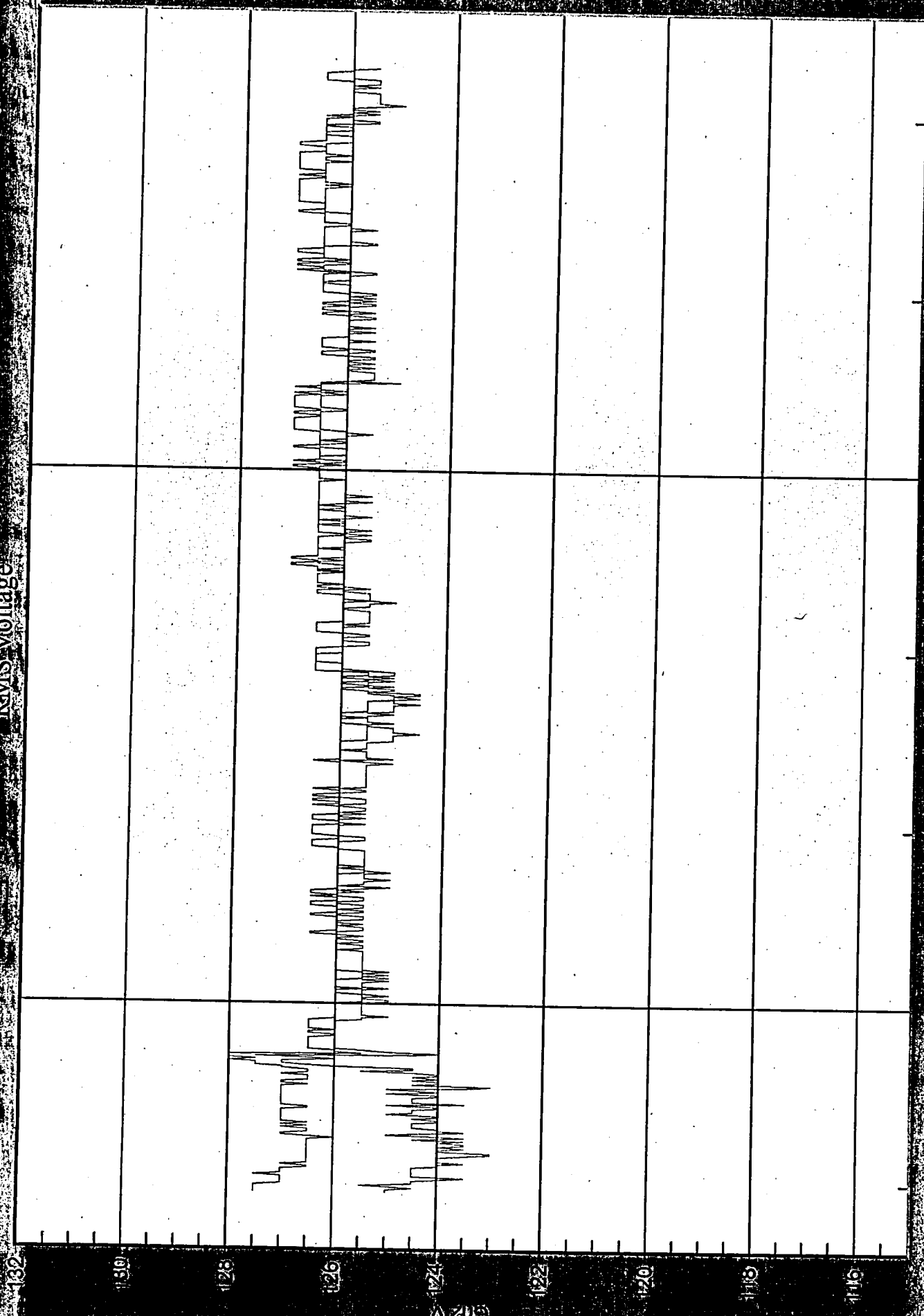


9PM

6PM

Mar 18 Tue 2014

RMS Voltage



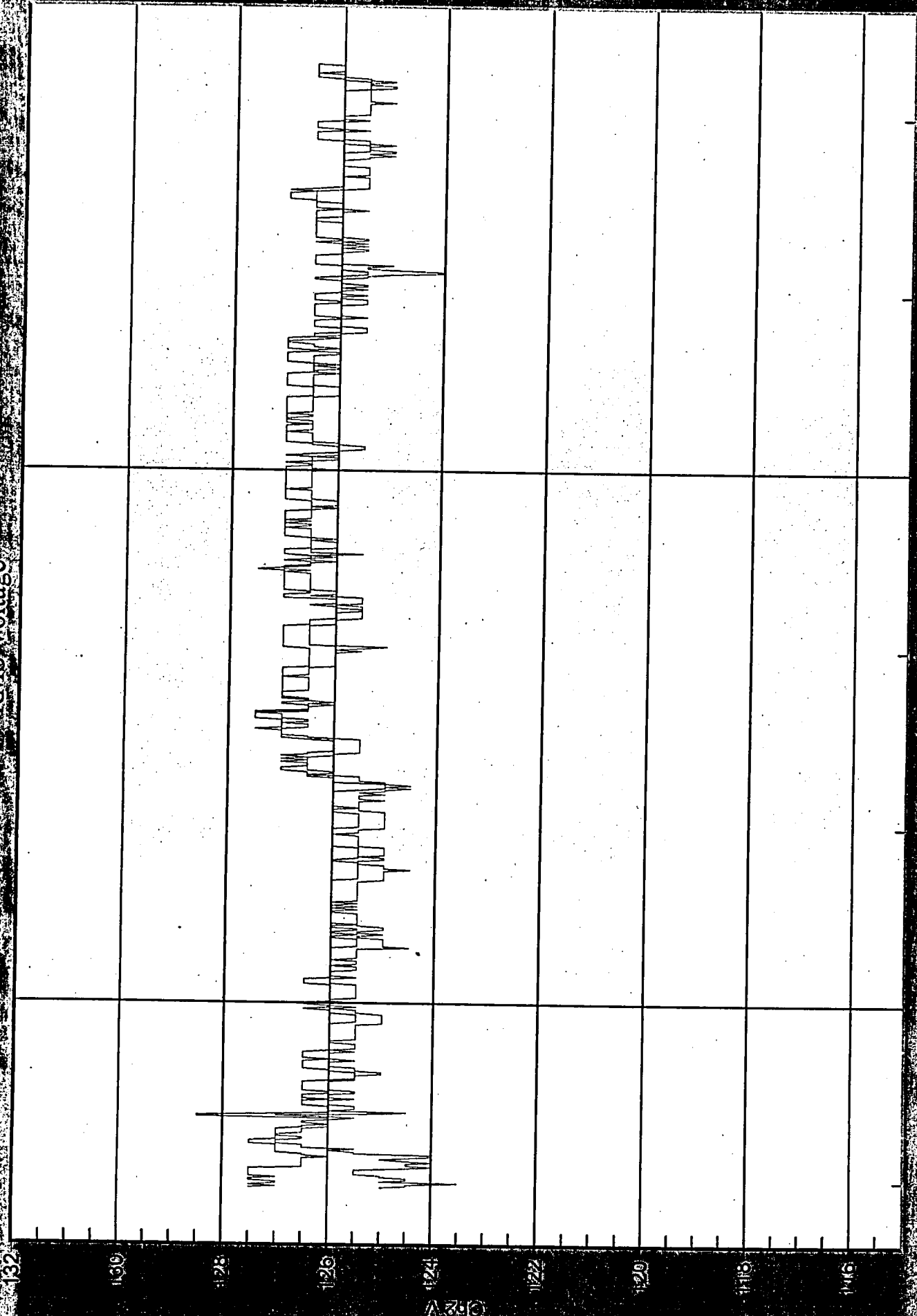
9PM

6PM

Mar 19 Wed 2014

Page 38

REMS Voltage

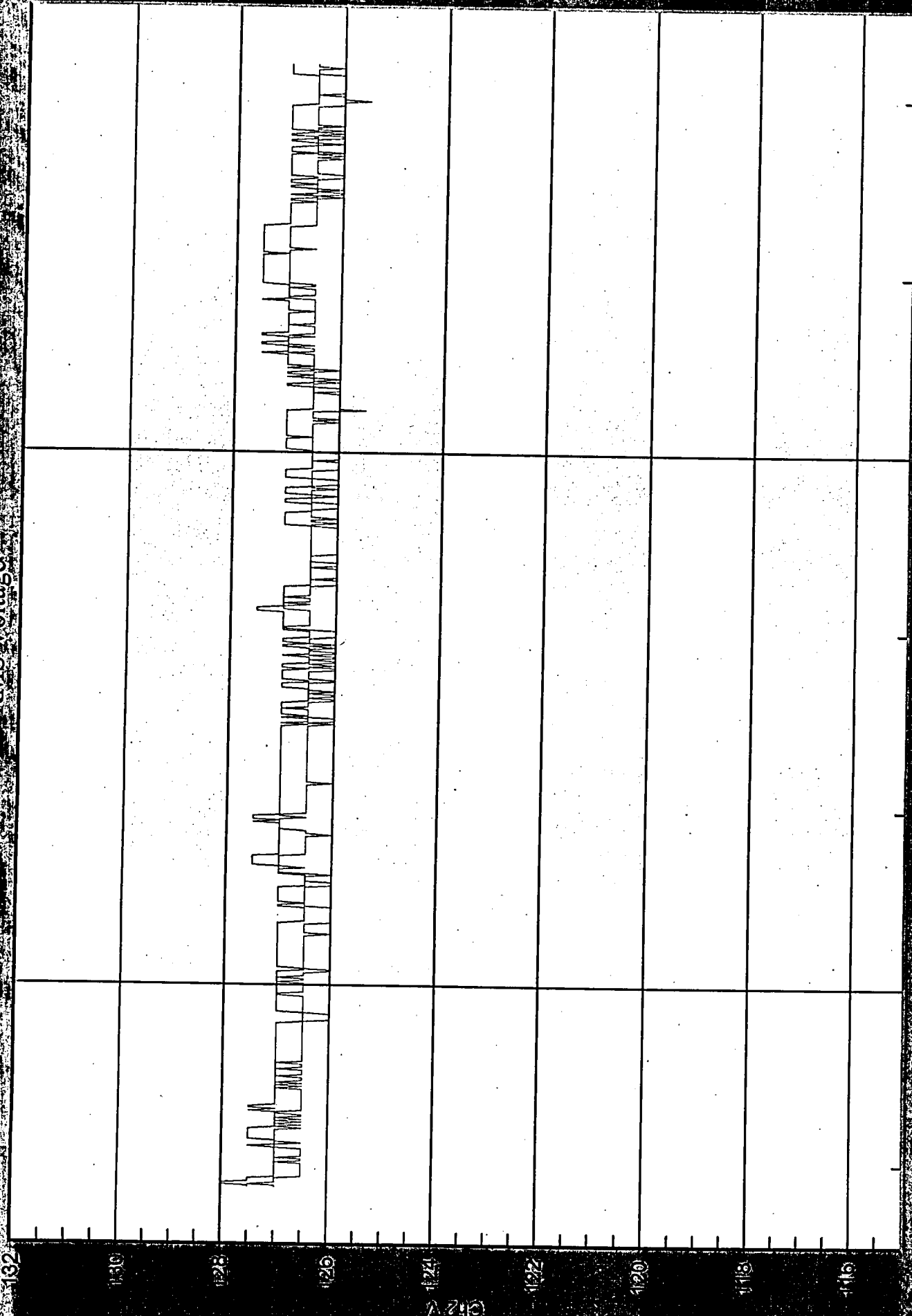


0.8V

0.6V

Mar 20 Thu 2014

RIMS Voltage



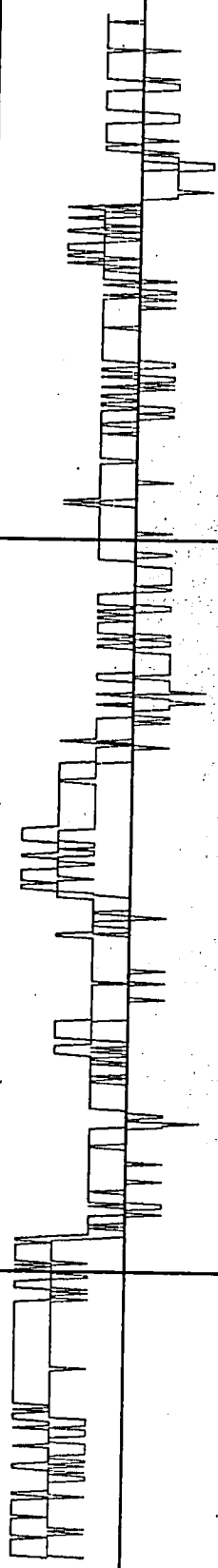
9PM

6PM

Mar 21 Fri 2014

RMS Voltage

132
130
128
126
124
122
120
118
116

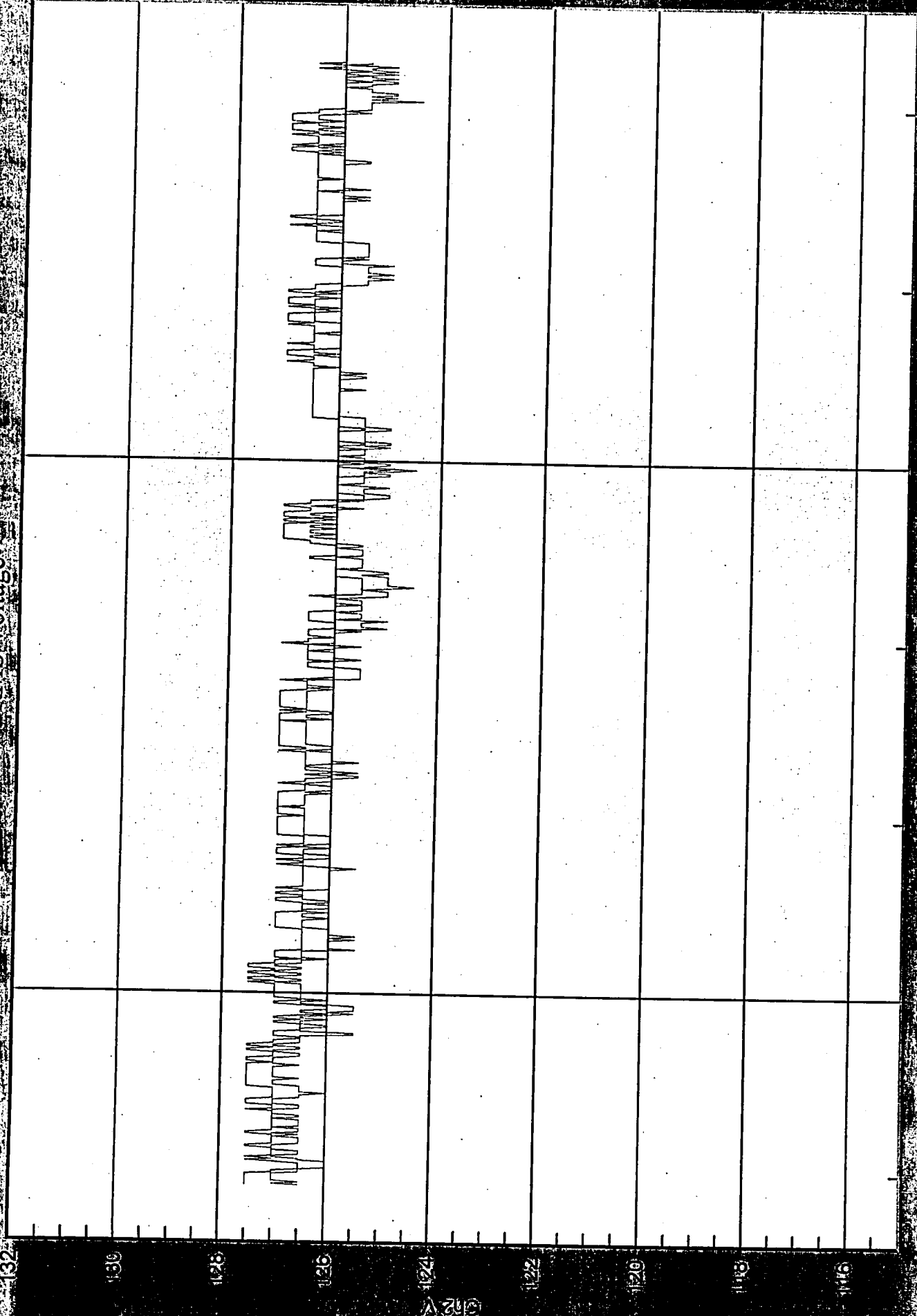


Mar 22 Sat 2014

6PM

9PM

RMS Voltage



9PM

6PM

Mar 23 Sun 2014

RMS Voltage

132

130

128

126

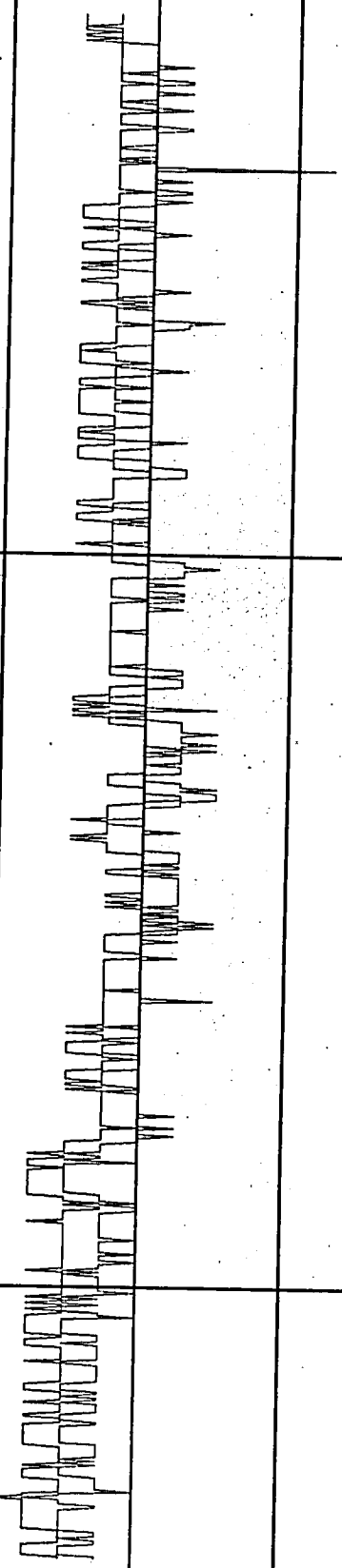
124

122

120

118

116

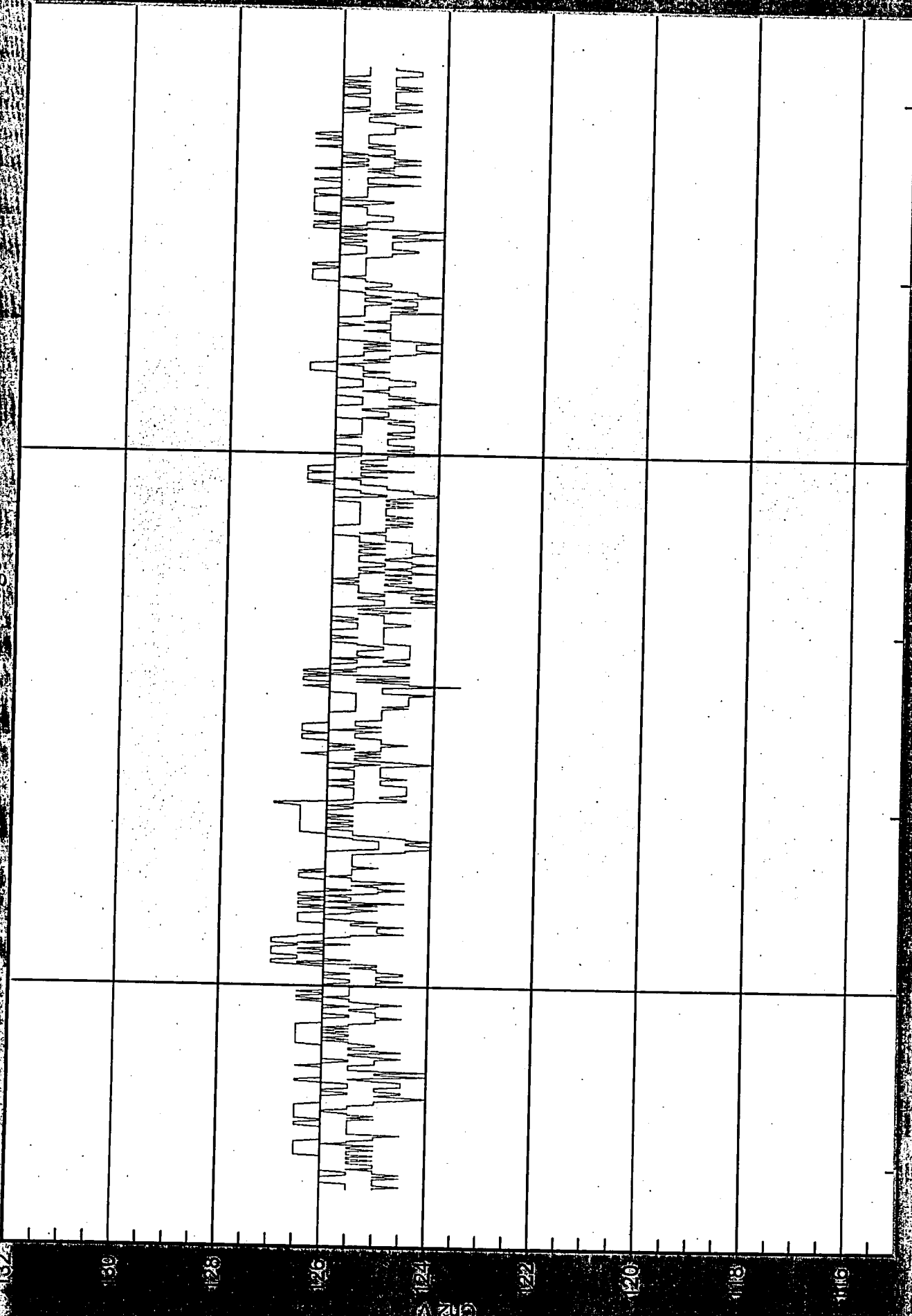


Mar 24 Mon 2014

6PM

9PM

RMS Voltage



9PM

6PM

Mar 25 Tue 2014

Page 77

RMS Voltage

132

130

128

126

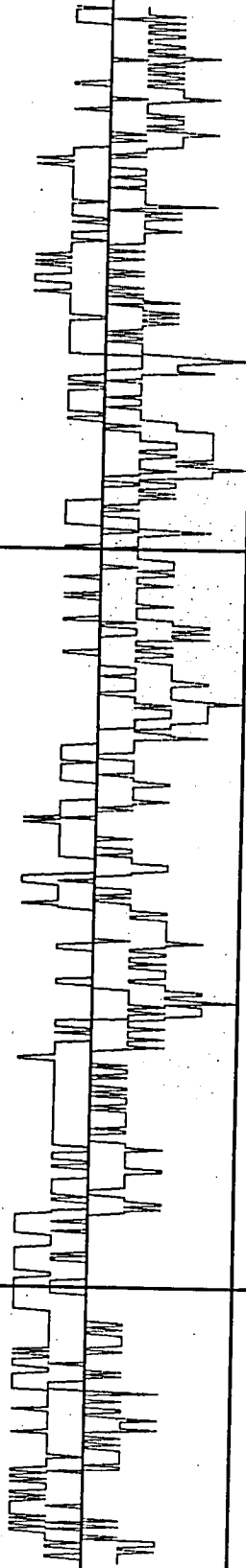
124

122

120

118

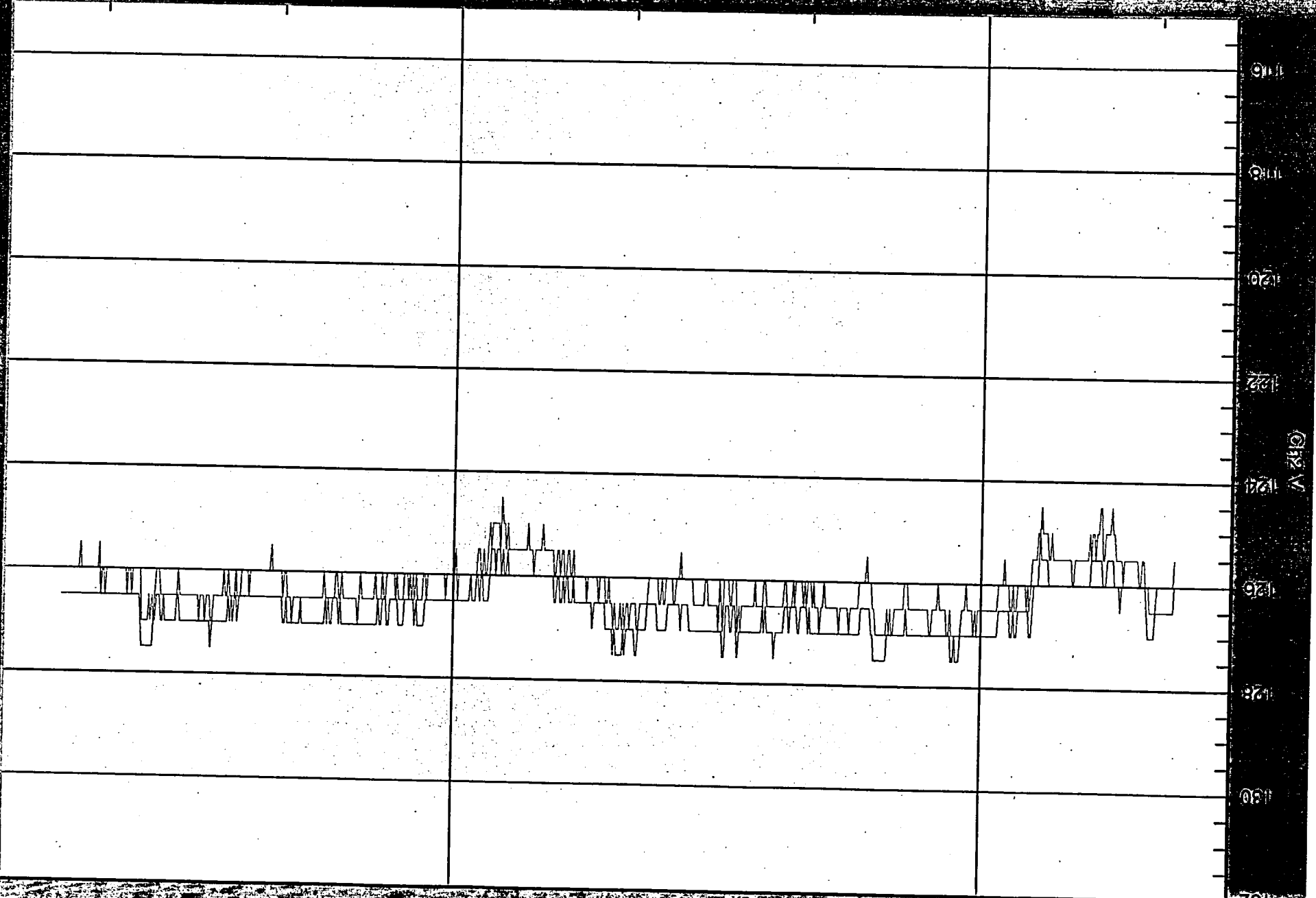
116



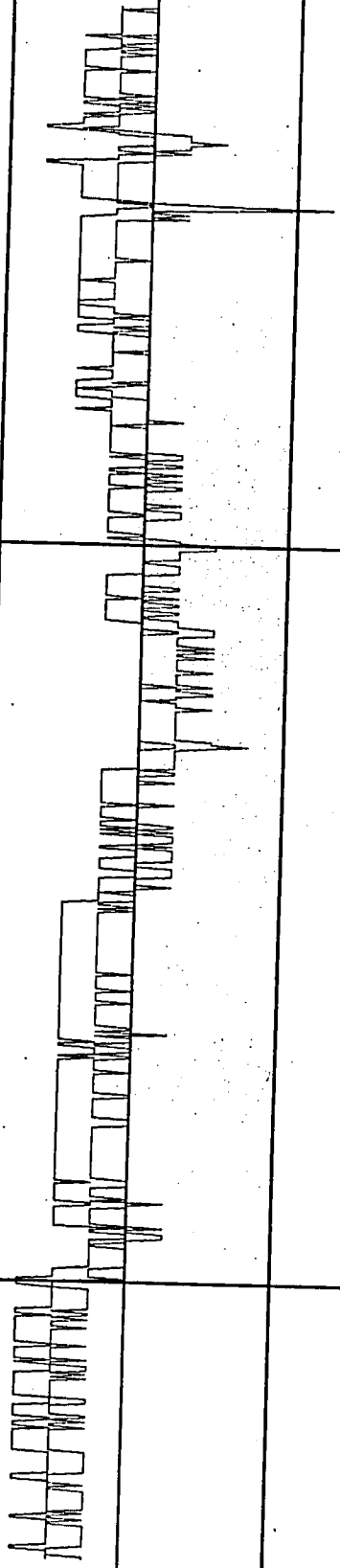
6PM

Mar 26 Wed 2014

9PM



RMS Voltage

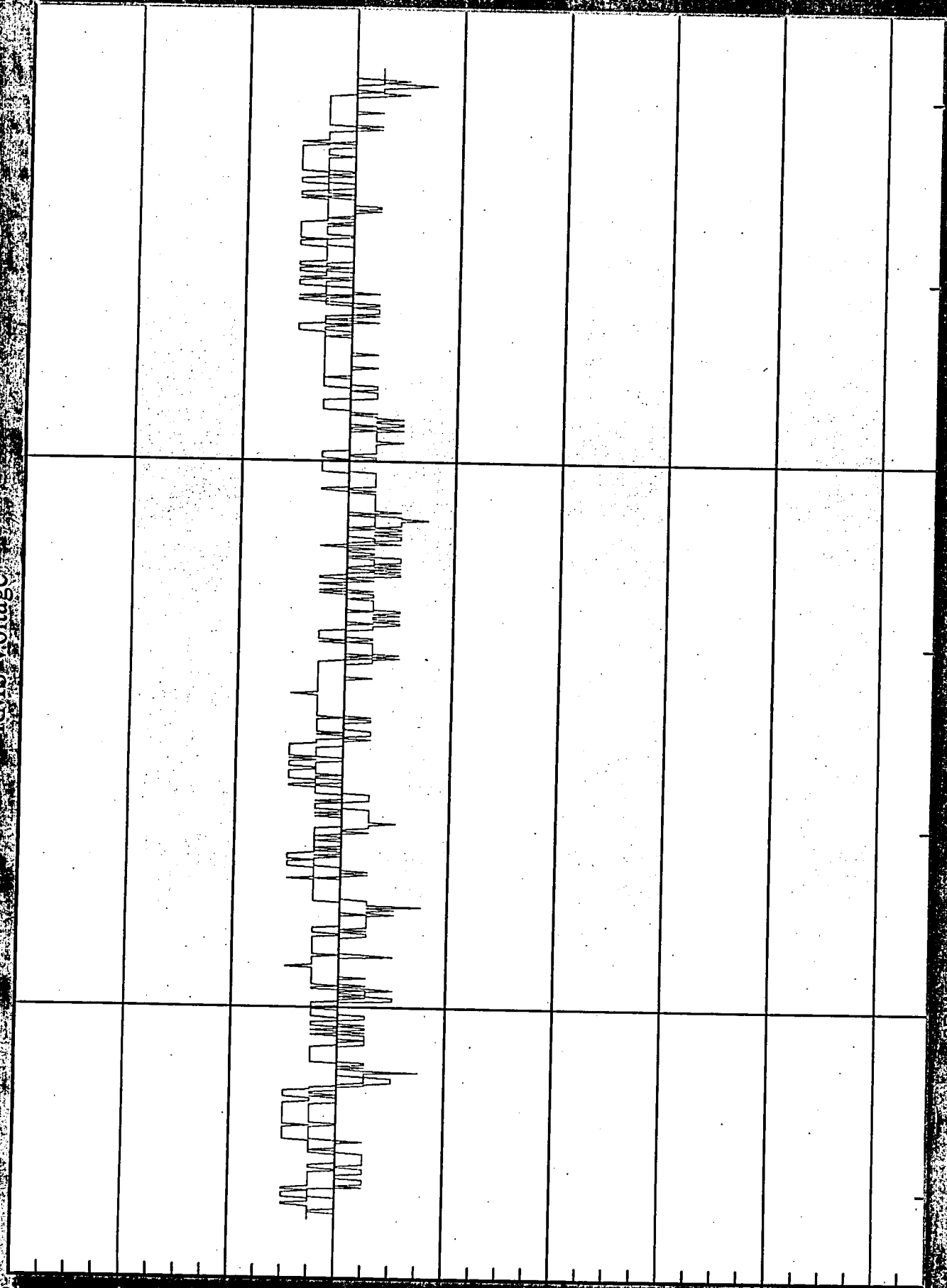


9PM

6PM

Mar 28 Fri 2014

RMS Voltage



132
130
128
126
124
122
120
118
116

Time

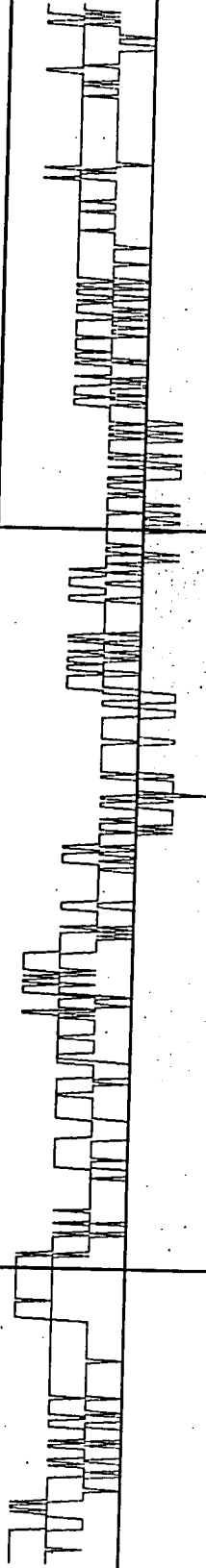
9PM

6PM

Mar 29 Sat 2014

Page 78

RMS Voltage



132

130

128

126

124

122

120

118

116

Ch2 V

96PM

9PM

Mar 30 Sun 2014

RMS Voltage

132

130

128

126

124

122

120

118

116

0.2 V

6PM

9PM

Mar 31 Mon 2014

Page 50

RMS Voltage

132

130

128

126

124

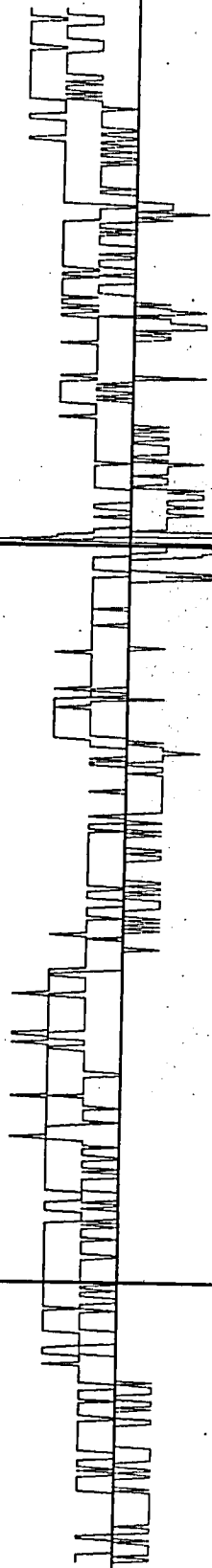
122

120

118

116

GRV



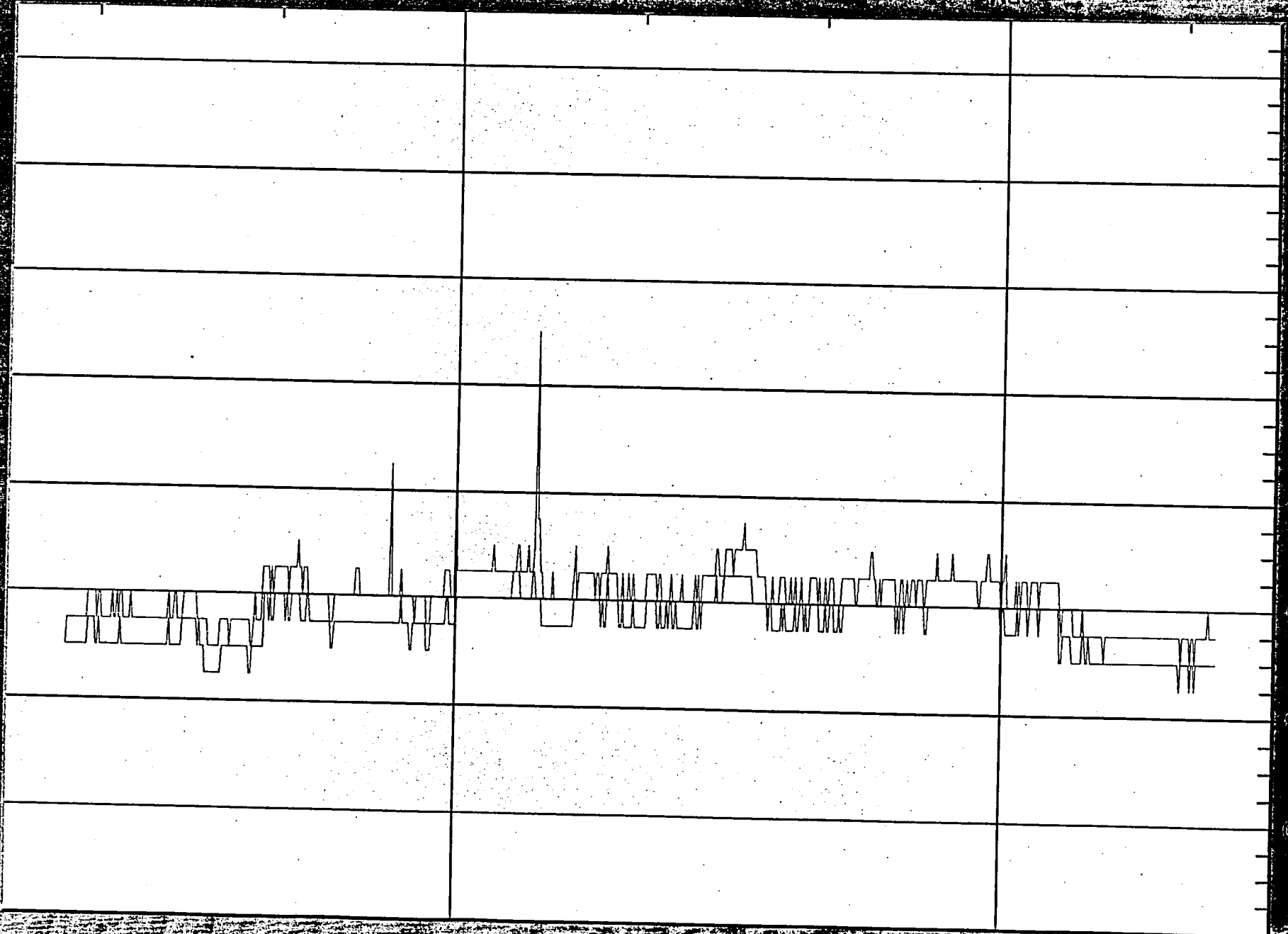
6PM

9PM

Apr 1 Tue 2014

9PM

6PM



RMS Voltage

132

130

128

126

124

122

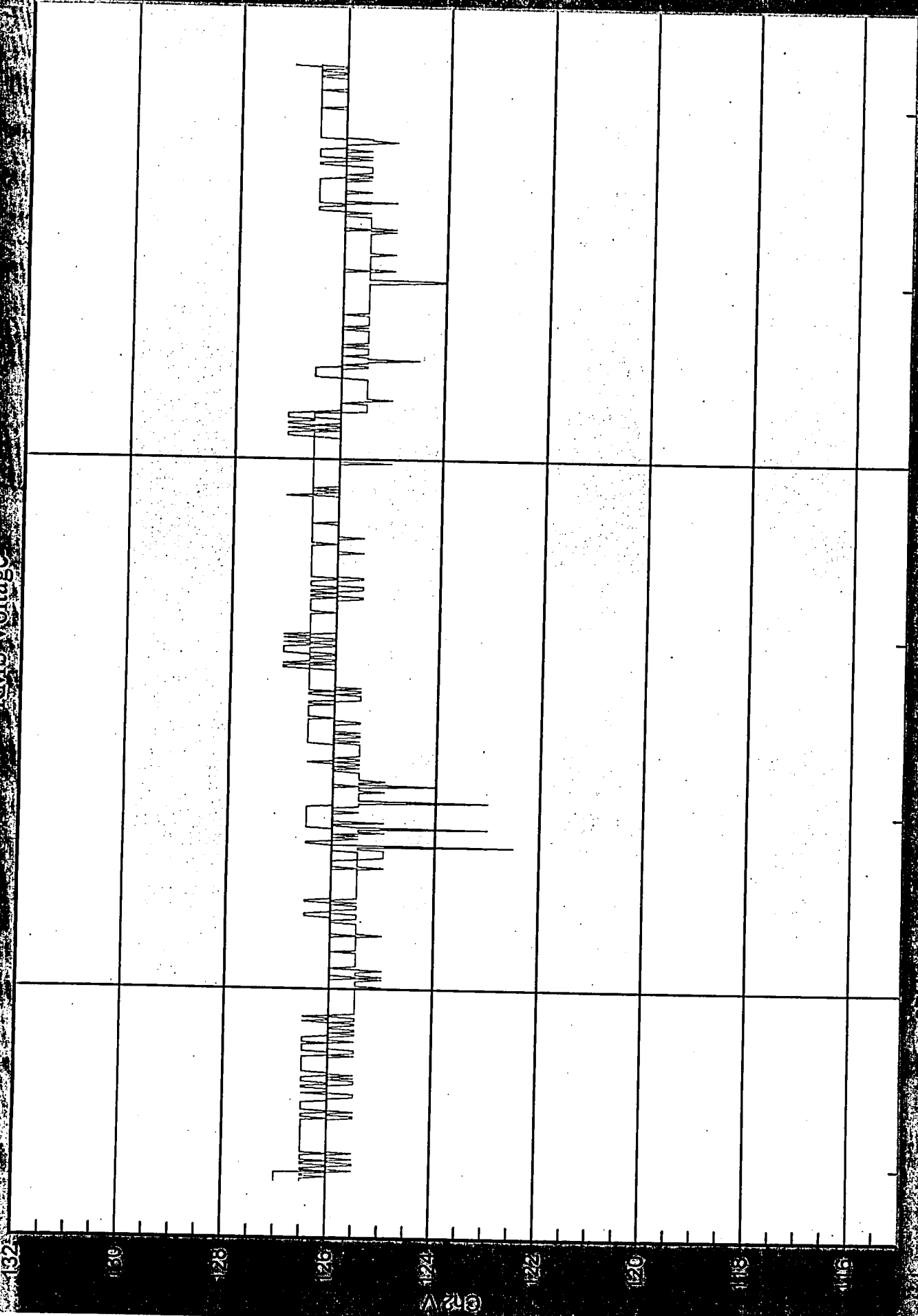
120

118

116

0.12 V

RMS Voltage

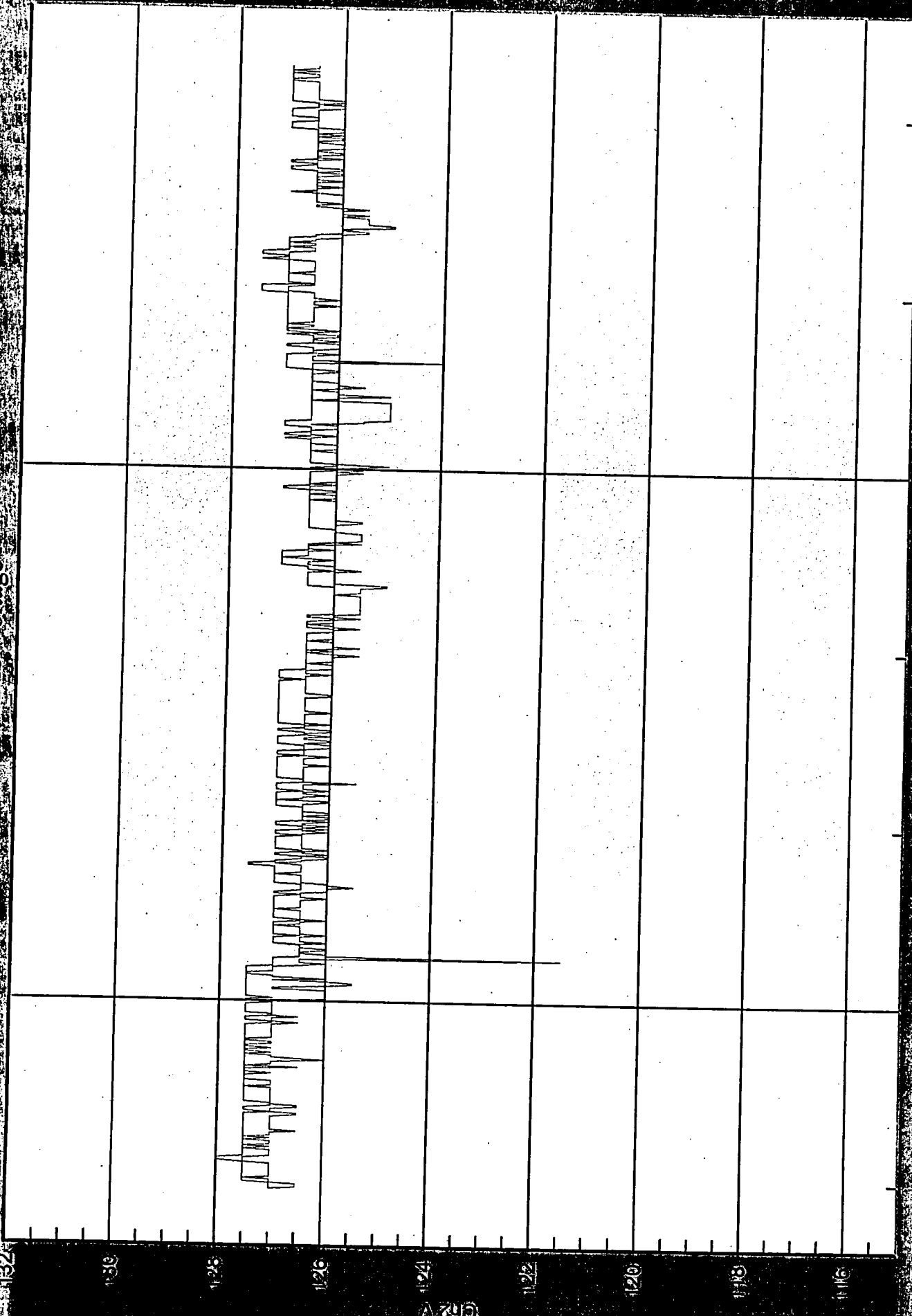


9PM

6PM

Apr 3 Thu 2014

RMIS Voltage

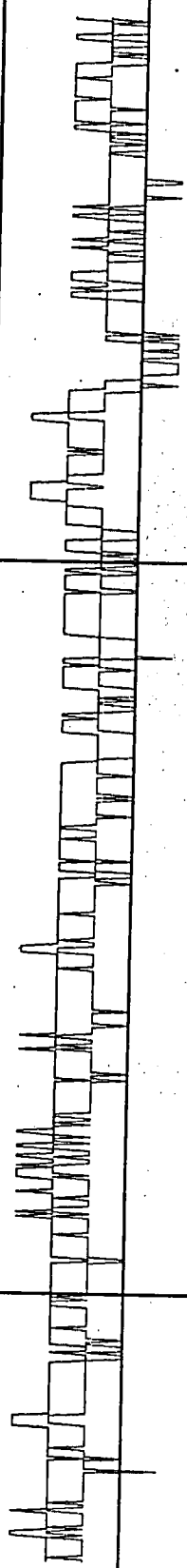


9PM

6PM

Apr 4 Fri, 2014

RMS Voltage



1.32
1.30
1.28
1.26
1.24
1.22
1.20
1.18
1.16

0.2 V

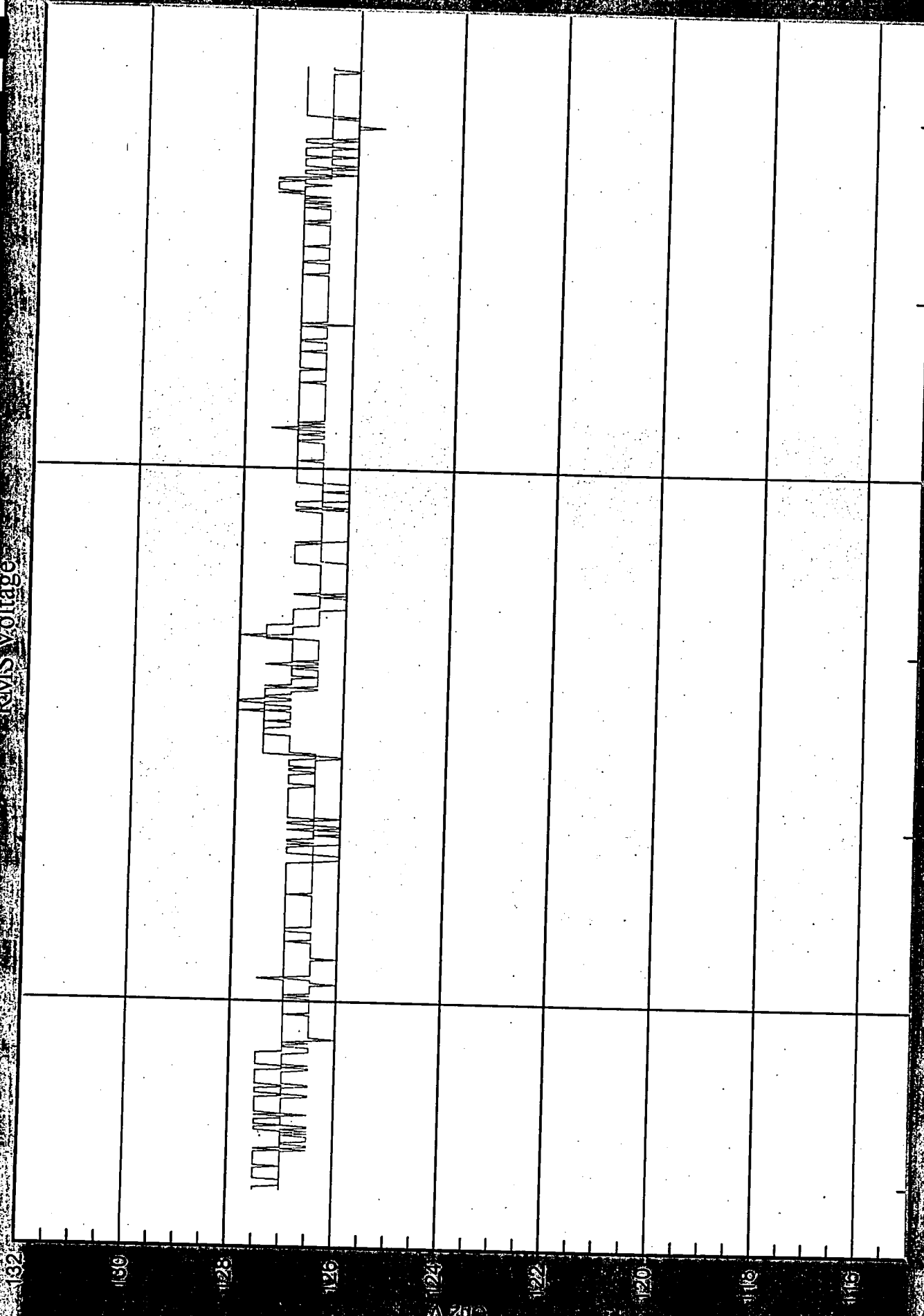
5.9 PM

6 PM

Apr 5 Sat 2014

Page 55

RMS Voltage



9PM

6PM

Apr 6 Sun 2014

Page 56

RMS Voltage

132

130

128

126

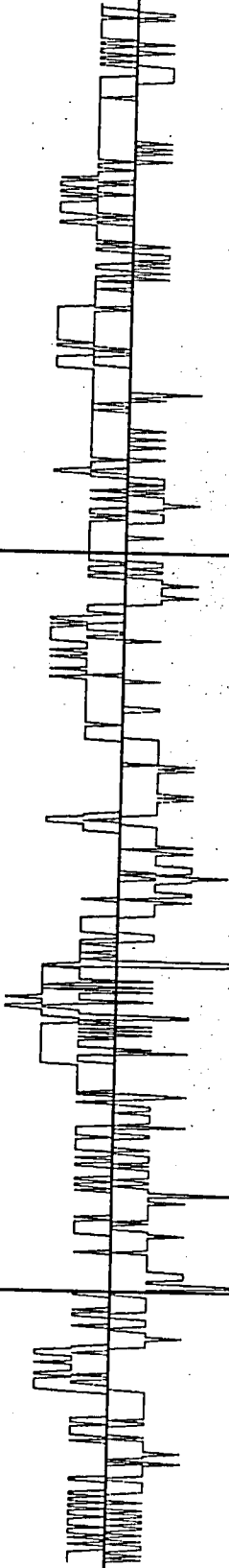
124

122

120

118

116

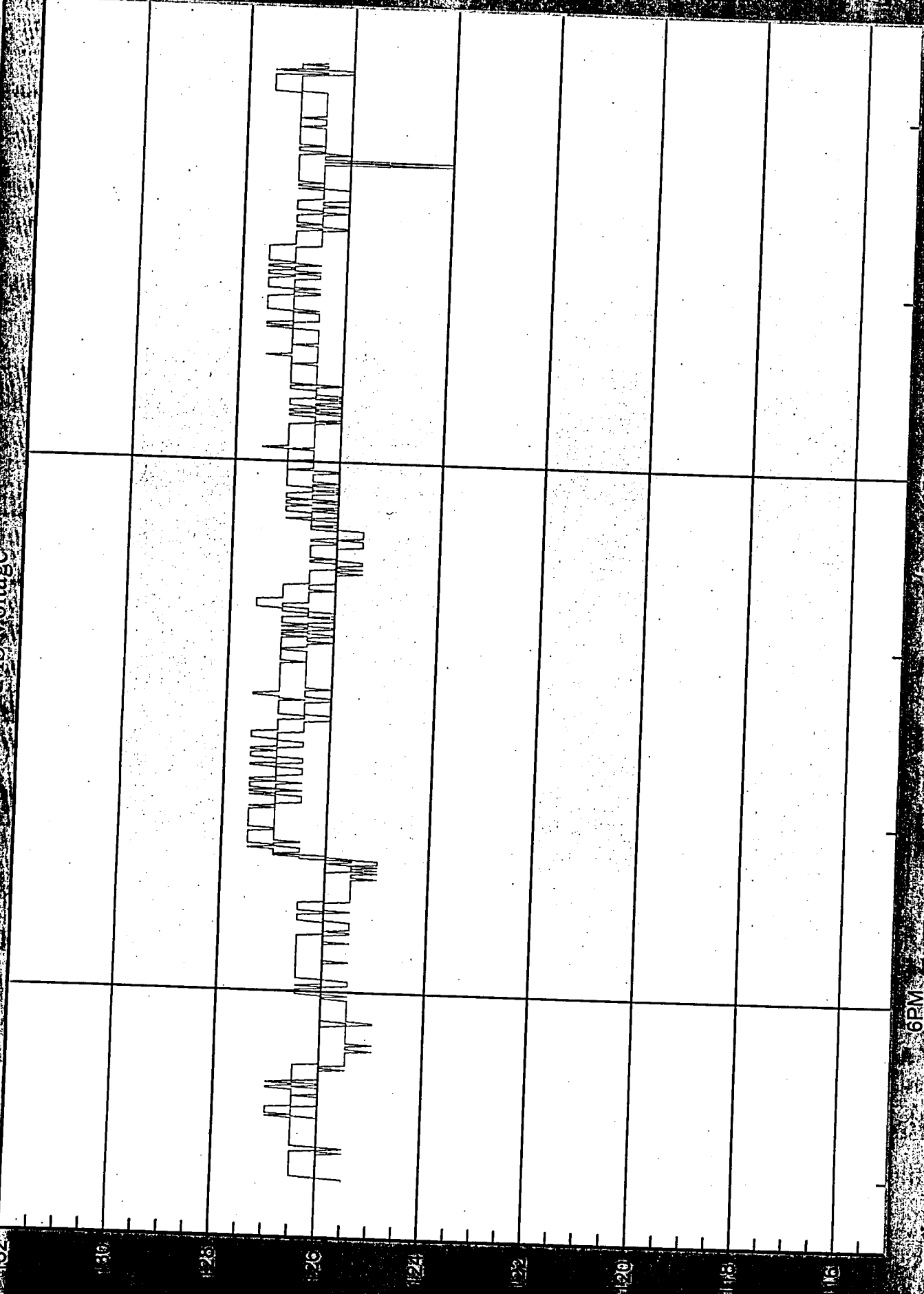


6PM

Apr 7 Mon 2014

9PM

RMS Voltage



6PM

Apr 8 Tue 2014

9PM

RMS Voltage

132

130

128

126

124

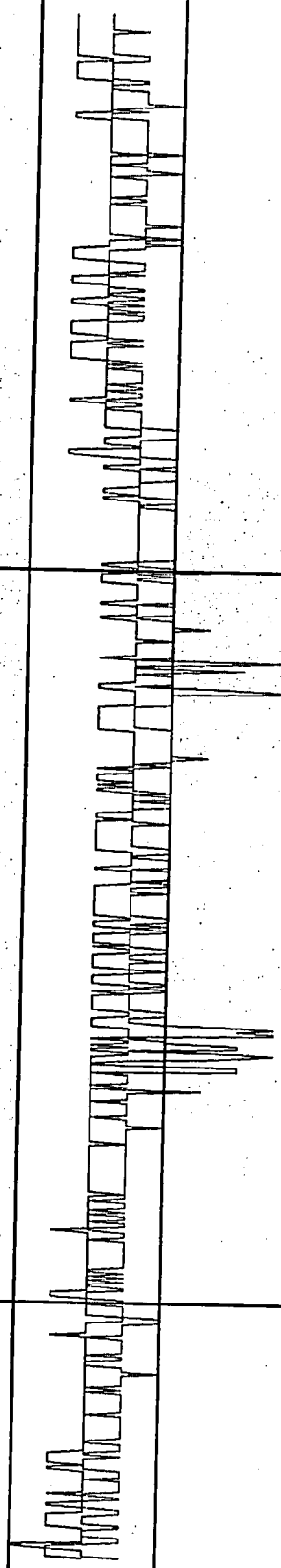
122

120

118

116

GRZ V



Apr 9 Wed 2014

0.6PM

0.9PM

RMS Voltage

132

130

128

126

124

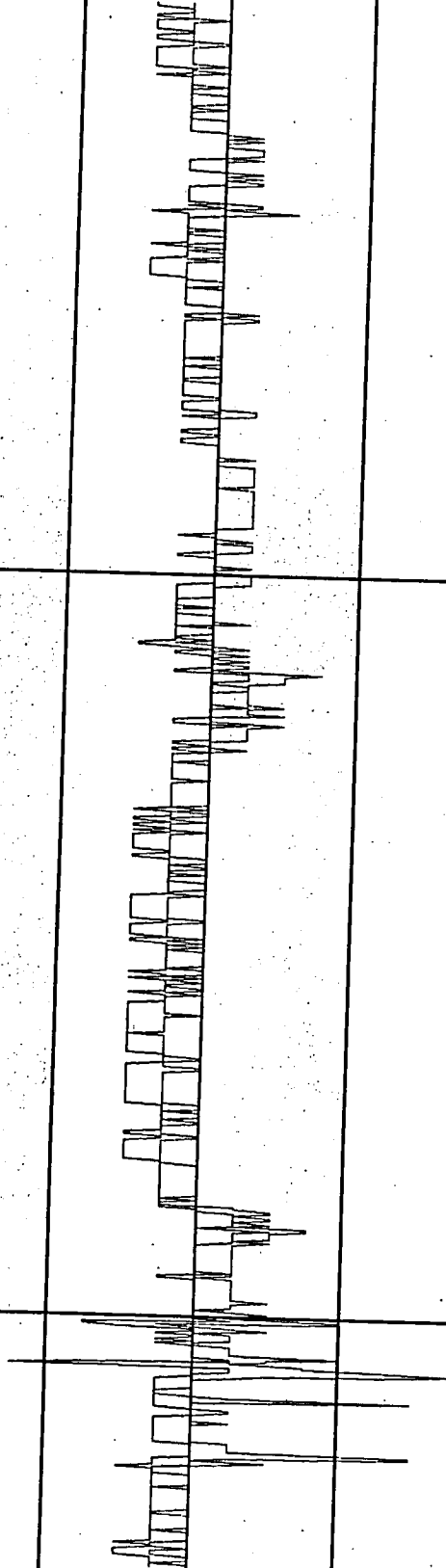
122

120

118

116

GR2 V



6PM

Apr-10 Thu 2014

9PM

RMS Voltage

132

130

128

126

124

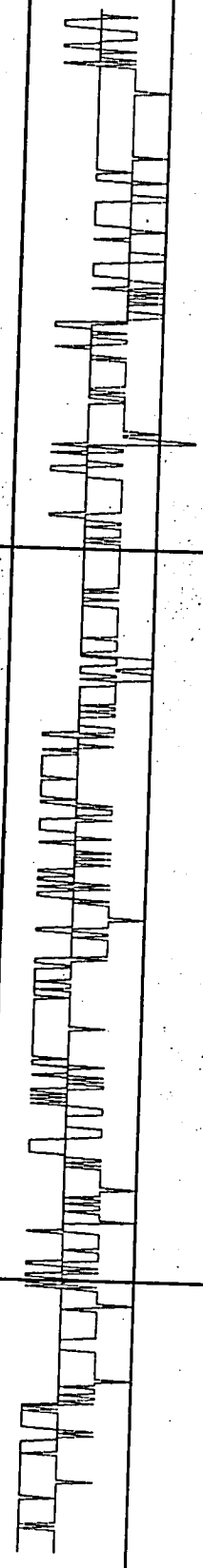
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Page 61

RMS Voltage

132

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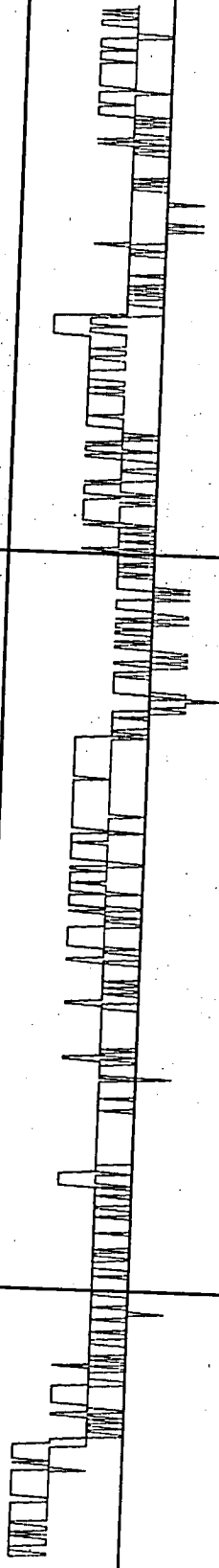
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Apr 12 Sat 2014

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RMS Voltage

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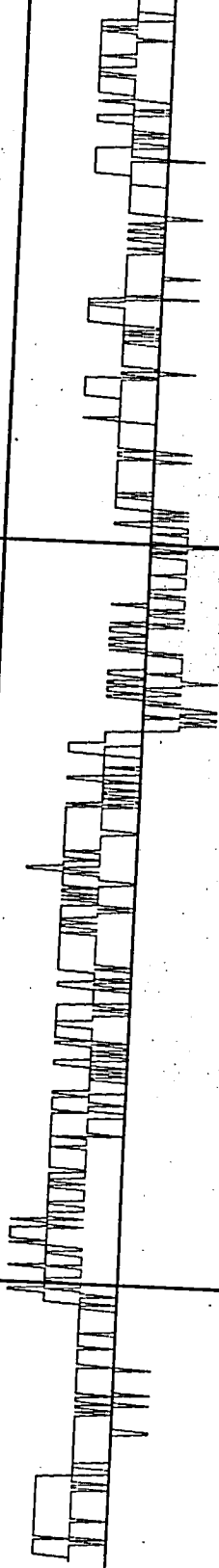
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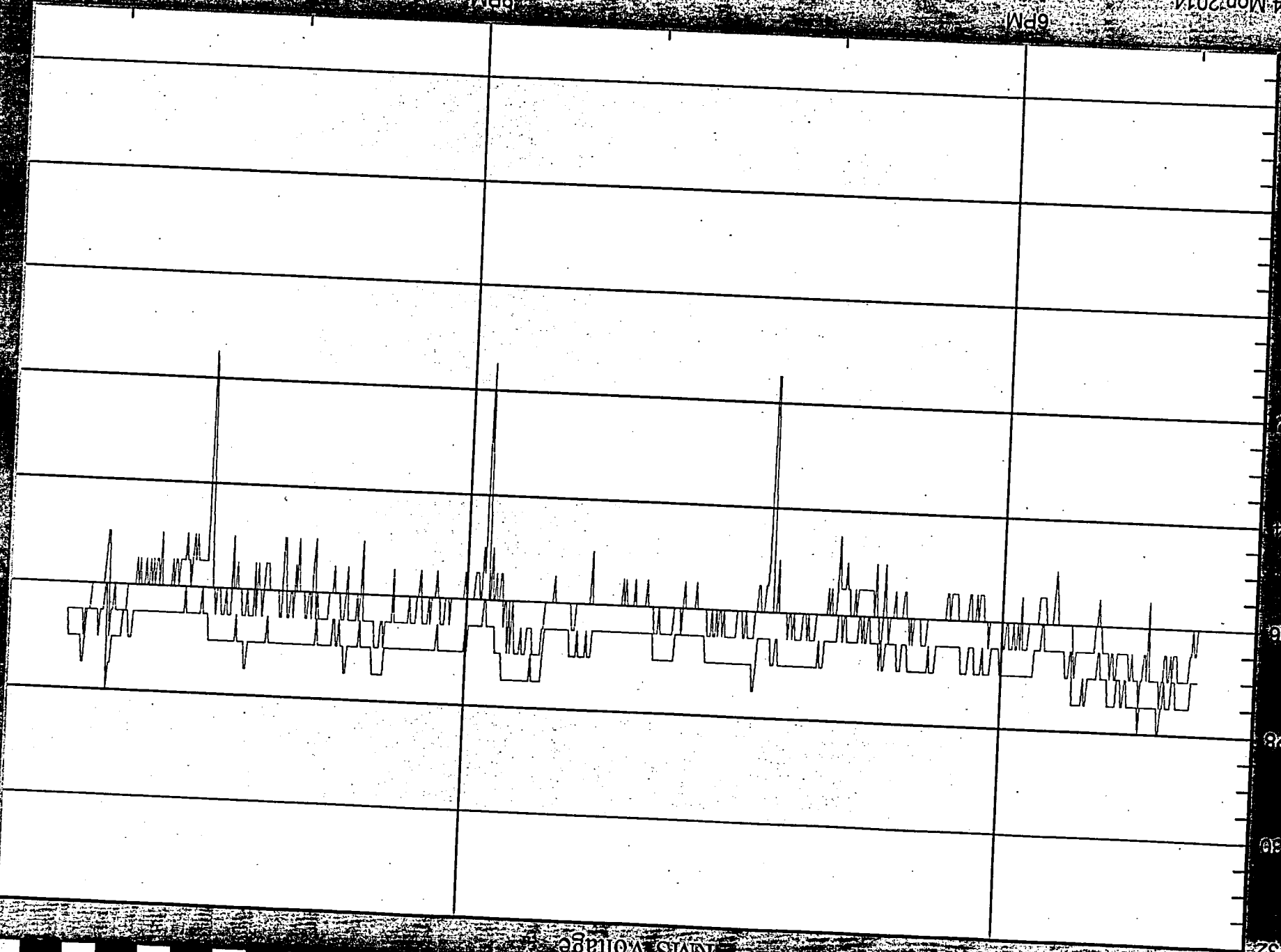
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