

DIVERSIFIED

T.E.S.T.

TECHNOLOGIES, INC.

4675 Burr Drive • Liverpool, NY 13088 • 1-800-724-6452 • FAX: 315-457-0428 • 315-457-0245

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October 21, 2014

Mr. Paul Brown  
**GOJO Industries**  
1 GOJO Plaza-Suite 500  
Akron, OH 44311

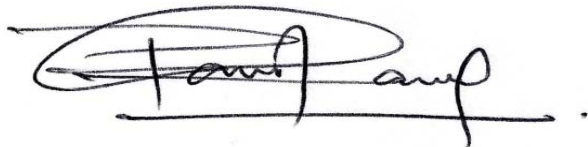
Dear Mr. Brown

Enclosed is the test report for the GOJO Industries Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1960-513-910 Rev. ABC in the host where the host is the Smartlink Ready LTX-7 13XX-##-YYY dispenser which was tested at our facility located at 4675 Burr Drive in Liverpool, NY. This facility is on file with the Federal Communications Commission (FCC) per 47 CFR 2.948. (Site File Registration Number: 306552) Please see attached annex for information on the Limited Approval Wireless Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC.

As narrated in the report, the product configuration meets the requirements of the FCC per CFR 47 Part 15.249 Class C for Intentional Radiators

Thank you for selecting Diversified T.E.S.T. Technologies, Inc. for your testing needs. We look forward to working with you on future projects. Should you have any questions or concerns regarding this report, contact me at 315-457-0245. Please feel free to visit our website at [www.dttlabs.com](http://www.dttlabs.com).

Sincerely,

A handwritten signature in black ink, appearing to read 'Prasanna Gautam', with a horizontal line extending to the right.

Prasanna Gautam  
Technical Associate

| <b><i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i></b>  |                         |
|--|-------------------------|
| <b>GOJO Industries</b><br>Limited Approval Wireless Transmitter Module 1960-501-WHT<br>Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is<br>Smartlink Ready LTX-7 13XX-##-YYY Dispenser | Project Number:<br>6491 |

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#### **Documentation**

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**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT**

**GOJO Industries**

Limited Approval Wireless Transmitter Module 1960-501-WHT  
Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is  
Smartlink Ready LTX-7 13XX-##-YYY Dispenser

Project Number:  
6491

***Test Report***

Laboratory

**Diversified TEST Technologies, Inc.**  
4675 Burr Drive  
Liverpool, NY 13088  
315-457-0245

Manufacturer

**GOJO Industries**  
1 GOJO Plaza, Suite 500  
Akron, OH. 44311

Report Issue Date: **October 21, 2014**  
Project Number: **6491**  
Report Number: **6491-082114 (Edition 2) FCCC LTX7 with Limited Approval  
Wireless Transmitter Module**

Date Received: **August 8, 2014**  
Date Tested: **August 8, 2014 – August 16, 2014**  
Model Numbers: **Limited Approval Wireless Transmitter Module 1960-501-WHT Rev.  
004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-7  
13XX-##-YYY Dispenser**

**FCC ID: 076-T4SG0910A**

Traceability: *Reference standards of measurement have been calibrated by a competent body  
using standards traceable to NIST.*

The testing performed by Diversified TEST Technologies, Inc. has shown that the product  
referenced above complies with the electromagnetic compatibility requirements according to the  
standard(s) specified on page 3 of the test report. The results in this test report apply only to the  
product denoted above. The manufacturer is responsible for ensuring that additional units are  
manufactured with identical mechanical and electrical characteristics.

**The equipment listed above conforms to the specified requirements of the test standards  
listed on page 3 of this report.**

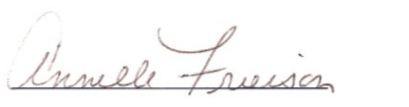
Complied by:  
Signature:



Date: October 21, 2014

Prasanna Gautam  
Technical Associate

Reviewed by:  
Signature:



Date: October 21, 2014

Annelle Frierson  
Vice- President

| <b><i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i></b>  |                         |
|--|-------------------------|
| <b>GOJO Industries</b><br>Limited Approval Wireless Transmitter Module 1960-501-WHT<br>Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is<br>Smartlink Ready LTX-7 13XX-##-YYY Dispenser | Project Number:<br>6491 |

## ***Emissions Test Regulations***

**The emissions tests were performed according to the following regulations:**

☐ EN 50081-1:1992

☐ EN 50081-2:1995

☐ EN 55011:1998 / A1:1999 / A2:2001

☐ Group 1

☐ Group 2

☐ Class A

☐ Class B

☐ EN 55013:1990 / A12:1994 / A13:1996 / A14:1999

☐ EN 55014:1993 / A1: 1997

☐ Household appliances and similar

☐ Portable tools

☐ Semiconductor devices

☐ EN 55022:1998

☐ Class A

☐ Class B

☒ **FCC Part 15.249**

☐ Class A

☐ Class B

☒ **Class C**

☒ **Certification**

☐ Verification

☐ Declaration of Conformity

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| <b>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</b>   |                         |
|--|-------------------------|
| <b>GOJO Industries</b><br>Limited Approval Wireless Transmitter Module 1960-501-WHT<br>Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is<br>Smartlink Ready LTX-7 13XX-##-YYY Dispenser | Project Number:<br>6491 |

### **Emissions Test Conditions: FCC PART 15.249 CLASS C**

The Harmonics, Bandwidth, measurements were tested in a horizontal and vertical polarization at the following test location:

- ☒ Diversified TEST Technologies, Inc. Open Area Test Site  
☐ Diversified TEST Technologies, Inc. Lab

At a test distance of:

- ☒ 1 meter  
☒ 3 meters  
☐ 30 meters

Test equipment used:

| Manufacturer    | Model     | Description  | Serial #  | Cal Due Date |
|-----------------|-----------|--|-----------|--------------|
| Hewlett Packard | 8593E     | Spectrum Analyzer  | 3235A0014 | 05/16/15     |
| Electro-Metrics | RGA60     | Ridge Horn Antenna   | 2981      | 12/9/14      |
| Hewlett Packard | 7550A     | Plotter  | 2407A0047 |              |
| Electro-Metrics | LPA-25    | Log Periodic Antenna<br>200-1000 MHz                                   | 1242      | 07/08/15     |
|                 | MFR-57500 | Blue low-loss cable  | 337       |              |
|                 |           | Non-conductive wooden turntable  |           |              |
|                 |           | 10-meter open field test range, grounded with ¼ " x ¼ " hardware cloth |           |              |
|                 |           | Co-ax Cable, 100-foot RG 8/U, 20-foot RG 223/U                         |           |              |

**NOTE: Calibration interval 1 year for the test equipment**

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| <b>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</b>   |                         |
|--|-------------------------|
| <b>GOJO Industries</b><br>Limited Approval Wireless Transmitter Module 1960-501-WHT<br>Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is<br>Smartlink Ready LTX-7 13XX-##-YYY Dispenser | Project Number:<br>6491 |

## **Equipment under Test (EUT) Test Operation Mode – Emissions Tests:**

**The device under test was operated under the following conditions during emissions testing:**

- ☐ Standby  
☒ Normal Operating Mode  
☐ Practice Operation

### **Description / Configuration of the device under test:**

Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-7 13XX-##-YYY Dispenser The unit was powered by a 6 VDC Battery during the collection of data.

### **Rationale for EUT setup / configuration:**

ANSI C63.4-2009

After numerous trial runs with a full bottle and an empty bottle it was found an empty bottle was worst case so therefore the dispenser was tested with the empty bottle for the entire test.

### **Deviations from test method:**

Testing performed at 1 meter test distance above 1 GHz to better represent harmonic emissions caused by the equipment under test.

### **Notes:**

The Spurious Emissions test data is included in the Subpart B report including the Test data from the Active Loop Antenna.

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**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT**

**GOJO Industries**

Limited Approval Wireless Transmitter Module 1960-501-WHT  
Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is  
Smartlink Ready LTX-7 13XX-##-YYY Dispenser

Project Number:  
6491

**Emissions Test Results:**

**FCC Part 15.249 Part C 910 MHz – 9100 MHz**

The requirements are ☒ MET ☐ NOT MET

**General Remarks:**

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be less than 500 kHz.

Measurements were taken up to the tenth harmonic.

The EUT was evaluated in 1 orthogonal orientation and the worst case data is reflected in the test report.

Radiated Measurements on the EUT were performed from 910 MHz up to the 10<sup>th</sup> Harmonic and any emission found were more than 20 dB below the limit have not been reported.

The transmitter module transmits an OOK modulated data packet following a 10 second delay after an event trigger coming from the LTX dispenser. The use of the LTX dispenser to dispense soap to a customer constitutes an event and once an event occurs a trigger pulse is sent from the LTX dispenser to a microcontroller in the transmitter module. The microcontroller in the module uses the 10 second delay period to watch for additional events during that period of time. After the 10 second period has expired the total number of events that occurred during that 10 second period are sent in the transmitted data packet along with the transmitter module serial (ID) number and other information like the battery level. A drawing of the transmit packet is shown on last page of this report.

The transmitter packet starts with a 50% duty cycle Preamble for 38.76mSec followed by an off Space of 3.04mSec. After the Space, the payload is sent twice for redundancy. Each payload time is 63.84mSec in length and consists of an equal numbers of 1's and 0's. Where each of the 1's has a 25% duty cycle and each of the 0's has a 75% duty cycle. Together the payload has a combined 50% duty cycle. The total packet length is therefore the addition of the 38.76msec Preamble followed by the 3.04mSec Space followed by the two redundant payloads of 63.86mSec each for total packet length of 169.48mSec. The total packet duty cycle consists of 83.22mSec "on" bits and 86.26mSec "off" bits for a total percentage of "on" bits of 0.491%.

Therefore the duty cycle correction in terms of dB is:  $20\log(0.491) = -6\text{dB}$ .

**Summary:**

The requirements according to the technical regulations are

☒ met.

☐ Not met.

The device under test does

☒ Fulfill the general approval requirements mentioned on page 3.

☐ Not fulfill the general approval requirements mentioned on page 3.

Testing Start Date: August 8, 2014

Testing End Date: August 16, 2014

***DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT***

**GOJO Industries**

Limited Approval Wireless Transmitter Module 1960-501-WHT  
Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is  
Smartlink Ready LTX-7 13XX-##-YYY Dispenser

Project Number:  
6491

**Test Setup Photographs:**

**FCC PART 15.249 CLASS C – 910 MHZ**

Photograph 1: FCC Part 15.249 Class C



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| <b><i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i></b> |                         |
|---|-------------------------|
| <b>GOJO Industries</b>  | Project Number:<br>6368 |

## **Test Datasheets – 910 MHz- 9100 MHz**

23 pages of data sheets to follow.

| FCC Part 15.249 Transmitter Test  |                      |                     |                          |                 |                   |                   |                               |                            |                        |   |                  |          |
|---|----------------------|---------------------|--------------------------|-----------------|-------------------|-------------------|-------------------------------|----------------------------|------------------------|---|------------------|----------|
| Gojo 6491   |                      |                     |                          |                 |                   |                   |                               |                            |                        |   |                  |          |
| Measured Field Strength (dBμV)  | Res. Bandwidth (Khz) | DUT Frequency (Mhz) | Measured Frequency (Mhz) | Azimuth degrees | Cable Factor (dB) | Antenna Gain (dB) | Measurement Distance (Meters) | Duty Cycle Correction (dB) | FCC Limit (μV/M) at 3M | Corrected Field Strength to 3M in μV/M Peak | Delta Limit (dB) | Polarity |
| 45.92   | 120                  | 910                 | 910                      | 160             | 17.2              | 19.6              | 3                             | -6                         | 50000                  | 6,854.88                                    | -17.26           | H        |
| 48.29   | 1000                 | 910                 | 1820                     | 175.00          | 2.1               | 7.6               | 1                             | -6                         | 500                    | 132.55                                      | -11.53           | H        |
| 32.13   | 1000                 | 910                 | 2730                     | 0               | 2.2               | 9.2               | 1                             | -6                         | 500                    | 25.08                                       | -25.99           | H        |
| 30.01   | 1000                 | 910                 | 3640                     | 0               | 2.4               | 8.9               | 1                             | -6                         | 500                    | 19.43                                       | -28.21           | H        |
| 29.53   | 1000                 | 910                 | 4550                     | 200             | 2.5               | 10                | 1                             | -6                         | 500                    | 21.10                                       | -27.49           | H        |
| 27.62   | 1000                 | 910                 | 5460                     | 285             | 2.7               | 10                | 1                             | -6                         | 500                    | 17.33                                       | -29.20           | H        |
| 27.96   | 1000                 | 910                 | 6370                     | 95              | 2.8               | 12                | 1                             | -6                         | 500                    | 22.96                                       | -26.76           | H        |
| 35.08   | 1000                 | 910                 | 7280                     | 0               | 2.8               | 10.5              | 1                             | -6                         | 500                    | 43.84                                       | -21.14           | H        |
| 37.05   | 1000                 | 910                 | 8190                     | 270             | 3.0               | 10.3              | 1                             | -6                         | 500                    | 55.00                                       | -19.17           | H        |
| 35.58   | 1000                 | 910                 | 9100                     | 100             | 3.1               | 11.2              | 1                             | -6                         | 500                    | 52.10                                       | -19.64           | H        |
|   |                      |                     |                          |                 |                   |                   |                               |                            |                        |   |                  |          |
| *Antenna factors are pre-calculated into Measured Field Strength (dBμV) |                      |                     |                          |                 |                   |                   |                               |                            |                        |   |                  |          |
| Unit Under Test:<br>LTX-7   |                      |                     |                          | 13XX-<br>##-YYY |                   |                   | 8/21/2014                     |                            | Empty Bottle           |   |                  |          |

| FCC Part 15.249 Transmitter Test  |                      |                     |                          |                 |                   |                        |                                    |                            |                        |   |                  |          |
|---|----------------------|---------------------|--------------------------|-----------------|-------------------|------------------------|------------------------------------|----------------------------|------------------------|---|------------------|----------|
| Measured Field Strength (dBµV) Peak                                     | Res. Bandwidth (Khz) | DUT Frequency (Mhz) | Measured Frequency (Mhz) | Azimuth degrees | Cable Factor (dB) | GOJO Antenna Gain (dB) | 6491 Measurement Distance (Meters) | Duty Cycle Correction (dB) | FCC Limit (uV/M) at 3M | Corrected Field Strength to 3M in uV/M Peak | Delta Limit (dB) | Polarity |
| 52.46   | 120                  | 910                 | 910                      | 0               | 17.2              | 19.6                   | 3                                  | -6                         | 50000                  | 14,554.59                                   | -10.72           | V        |
| 51.99   | 1000                 | 910                 | 1820                     | 280             | 2.1               | 7.6                    | 1                                  | -6                         | 500                    | 202.95                                      | -7.83            | V        |
| 28.36   | 1000                 | 910                 | 2730                     | 290             | 2.2               | 9.2                    | 1                                  | -6                         | 500                    | 16.25                                       | -29.76           | V        |
| 29.81   | 1000                 | 910                 | 3640                     | 85              | 2.4               | 8.9                    | 1                                  | -6                         | 500                    | 18.98                                       | -28.41           | V        |
| 33.78   | 1000                 | 910                 | 4550                     | 45              | 2.5               | 10                     | 1                                  | -6                         | 500                    | 34.43                                       | -23.24           | V        |
| 31.67   | 1000                 | 910                 | 5460                     | 0               | 2.7               | 10                     | 1                                  | -6                         | 500                    | 27.63                                       | -25.15           | V        |
| 28.50   | 1000                 | 910                 | 6370                     | 120             | 2.8               | 12                     | 1                                  | -6                         | 500                    | 24.43                                       | -26.22           | V        |
| 34.79   | 1000                 | 910                 | 7280                     | 280             | 2.8               | 10.5                   | 1                                  | -6                         | 500                    | 42.40                                       | -21.43           | V        |
| 36.84   | 1000                 | 910                 | 8190                     | 100             | 3.0               | 10.3                   | 1                                  | -6                         | 500                    | 53.69                                       | -19.38           | V        |
| 35.53   | 1000                 | 910                 | 9100                     | 350             | 3.1               | 11.2                   | 1                                  | -6                         | 500                    | 51.81                                       | -19.69           | V        |
|   |                      |                     |                          |                 |                   |                        |                                    |                            |                        |   |                  |          |
| *Antenna factors are pre-calculated into Measured Field Strength (dBµV) |                      |                     |                          |                 |                   |                        |                                    |                            |                        |   |                  |          |
| Unit Under Test: LTX-7  |                      |                     |                          | 13XX-##-YYY     |                   |                        | 8/21/2014                          |                            | Empty Bottle           |   |                  |          |

LTX 2.0 Short

00:06:27 AUG 11, 2014

hp GOJO #6491 TFX 3M VERT

REF 70.0 dBμV #AT 0 dB

MKR Δ 200 kHz

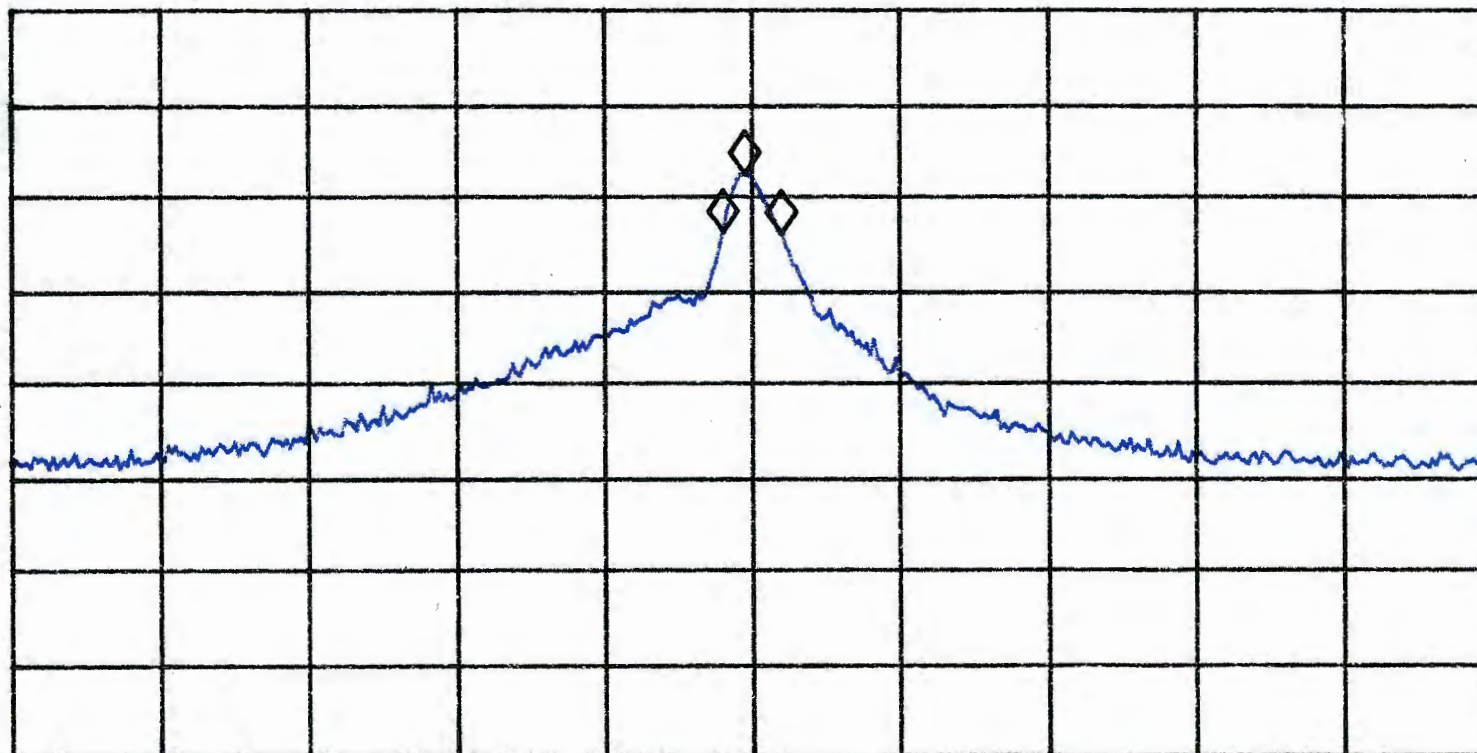
-.12 dB

PEAK

LOG

10

dB/



| Marker | Trace | Type     | Freq / Time | Amplitude  |
|--------|-------|----------|-------------|------------|
| 1:     | (A)   | ΔFreq    | 0.200 MHz   | -0.12 dB   |
| 2:     | (A)   | Δ Ref    | 909.900 MHz | 46.18 dBuV |
| 3:     | (A)   | Freq     | 909.975 MHz | 52.46 dBuV |
| 4:     |       | Inactive |             |            |

CENTER 910.000 MHz

#RES BW 120 kHz

SPAN 5.000 MHz

VBW 300 kHz

SWP 20.0 msec

23: 45: 06 AUG 10, 2014  
hp GOJO #6491 TFX 3M VERT

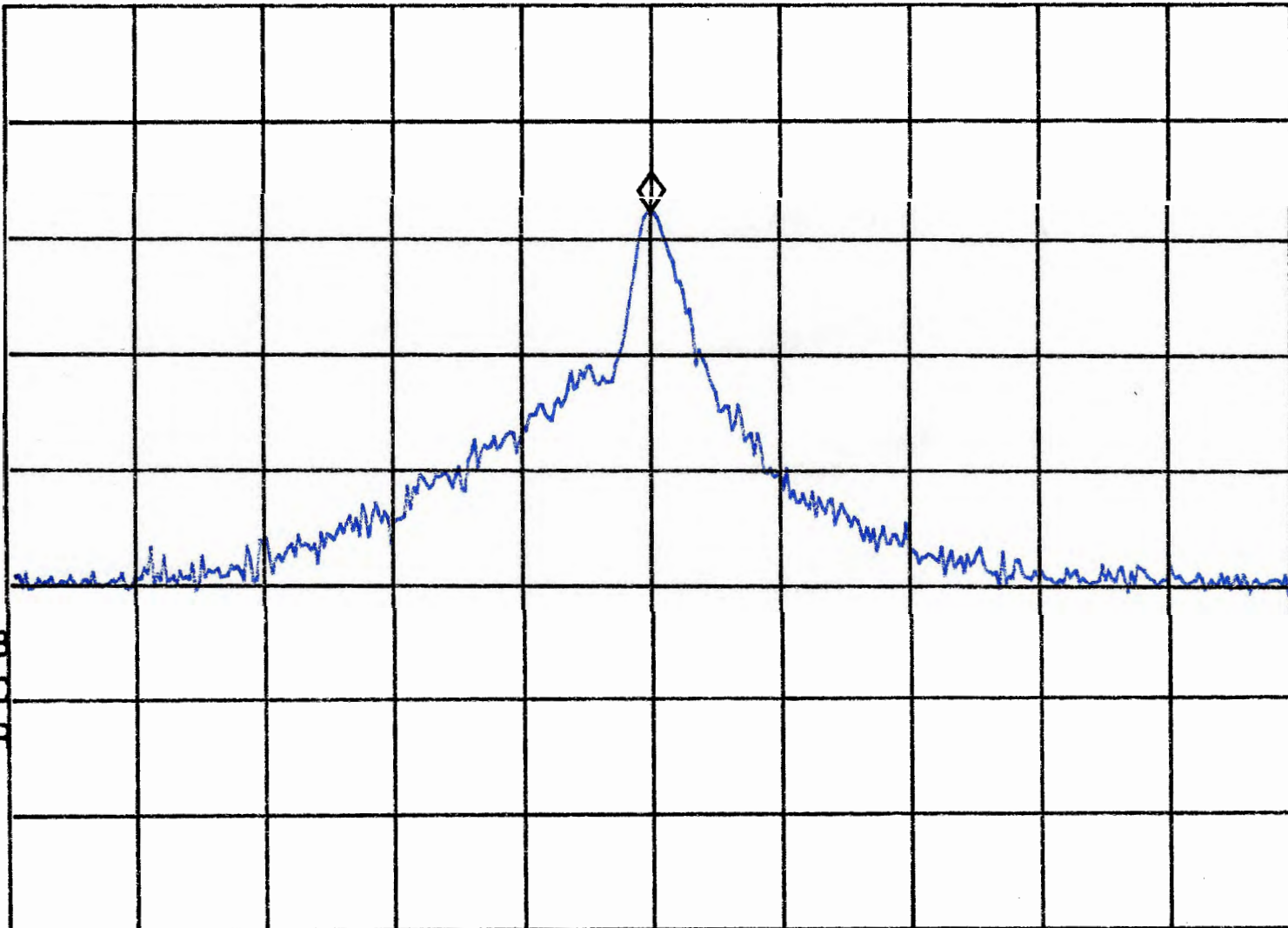
REF 70.0 dBμV #AT 0 dB

MKR 909.975 MHz

52.46 dBμV

PEAK  
LOG  
10  
dB/

MA SB  
SC FC  
CORR



CENTER 910.000 MHz  
#RES BW 120 kHz

VBW 300 kHz

SPAN 5.000 MHz  
SWP 20.0 msec

LTX 2.0 Short Azimuth 280°

02:33:19 AUG 11, 2014

hp GOJO #6941 TFX 1M VERT

REF 75.0 dBμV #AT 0 dB

MKR 1.819988 GHz

51.99 dBμV

PEAK

LOG

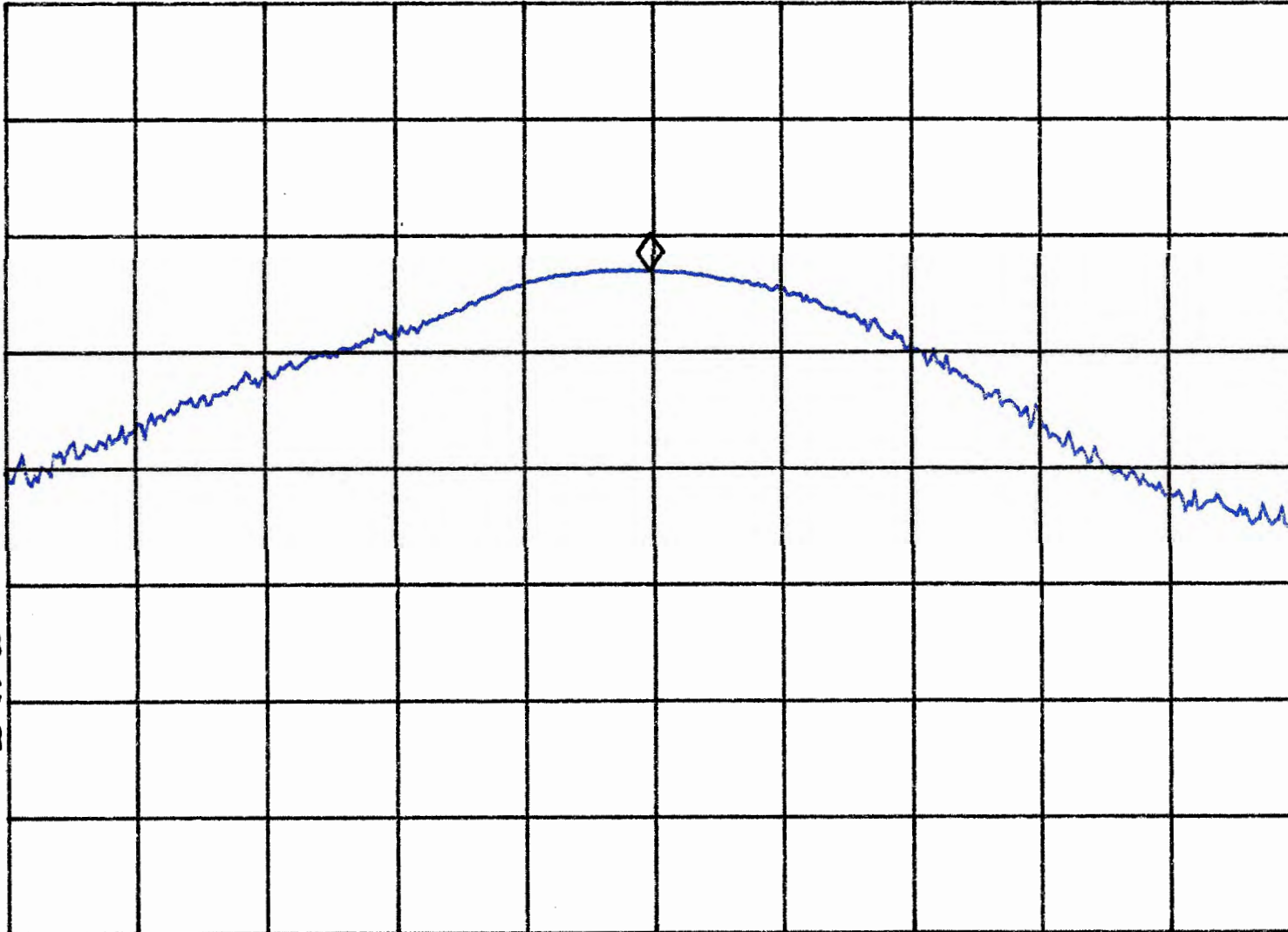
10

dB/

MA SB

SC FC

CORR



CENTER 1.820000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec

LTX 2.0 Short Azimuth 290°

02:25:23 AUG 14, 2014

GOJO #6941 TFX 1M VERT

REF 75.0 dBμV #AT 0 dB

MKR 2.730000 GHz

28.36 dBμV

PEAK

LOG

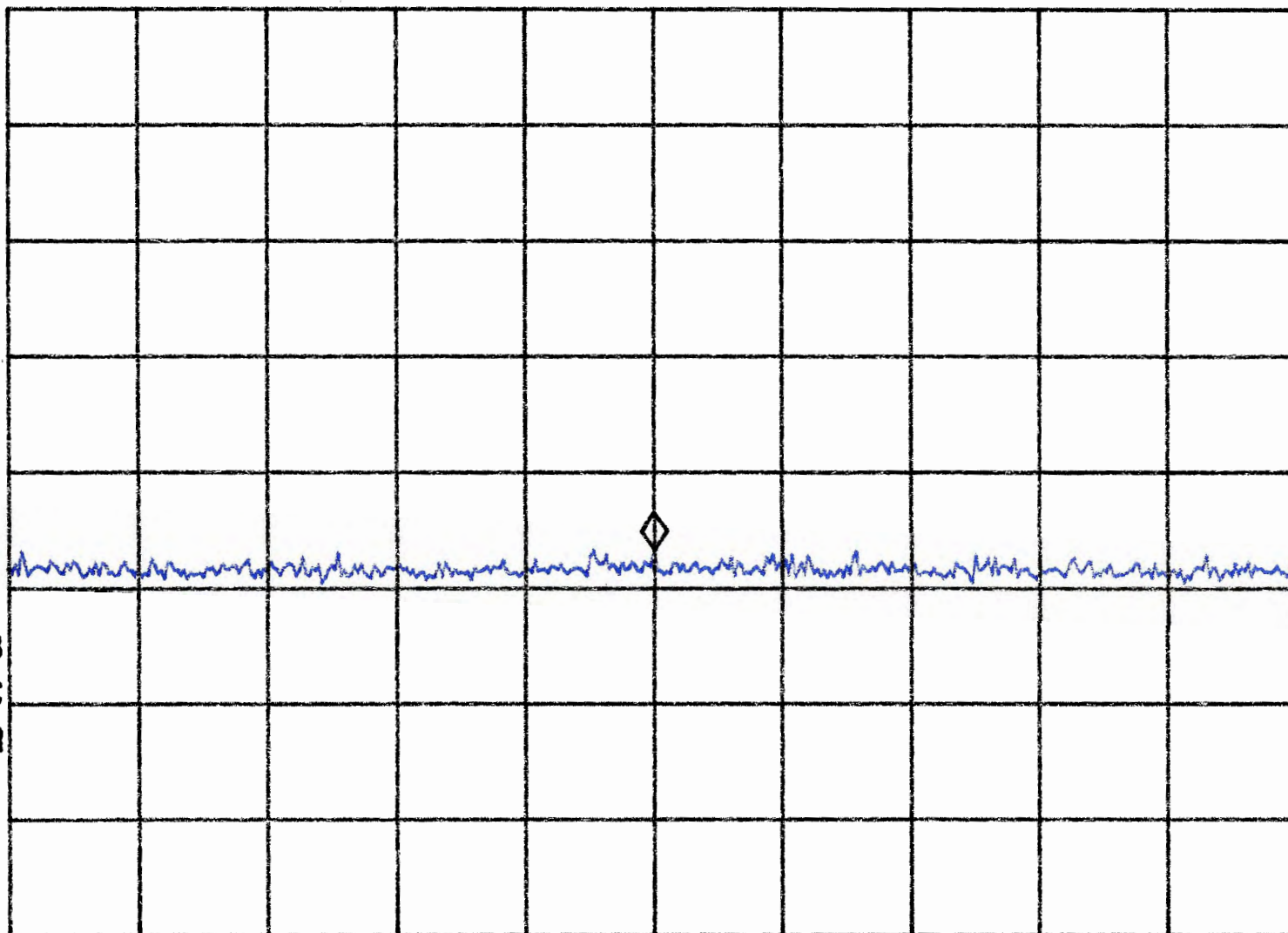
10

dB/

MA SB

SC FC

CORR



CENTER 2.730000 GHz

#RES BW 1.0 MHz

SPAN 5.000 MHz

VBW 300 kHz

SWP 20.0 msec



LTX 2.0 Short Azimuth 85°

02:37:48 AUG 14, 2014

GOJO #6941 TFX 1M VERT

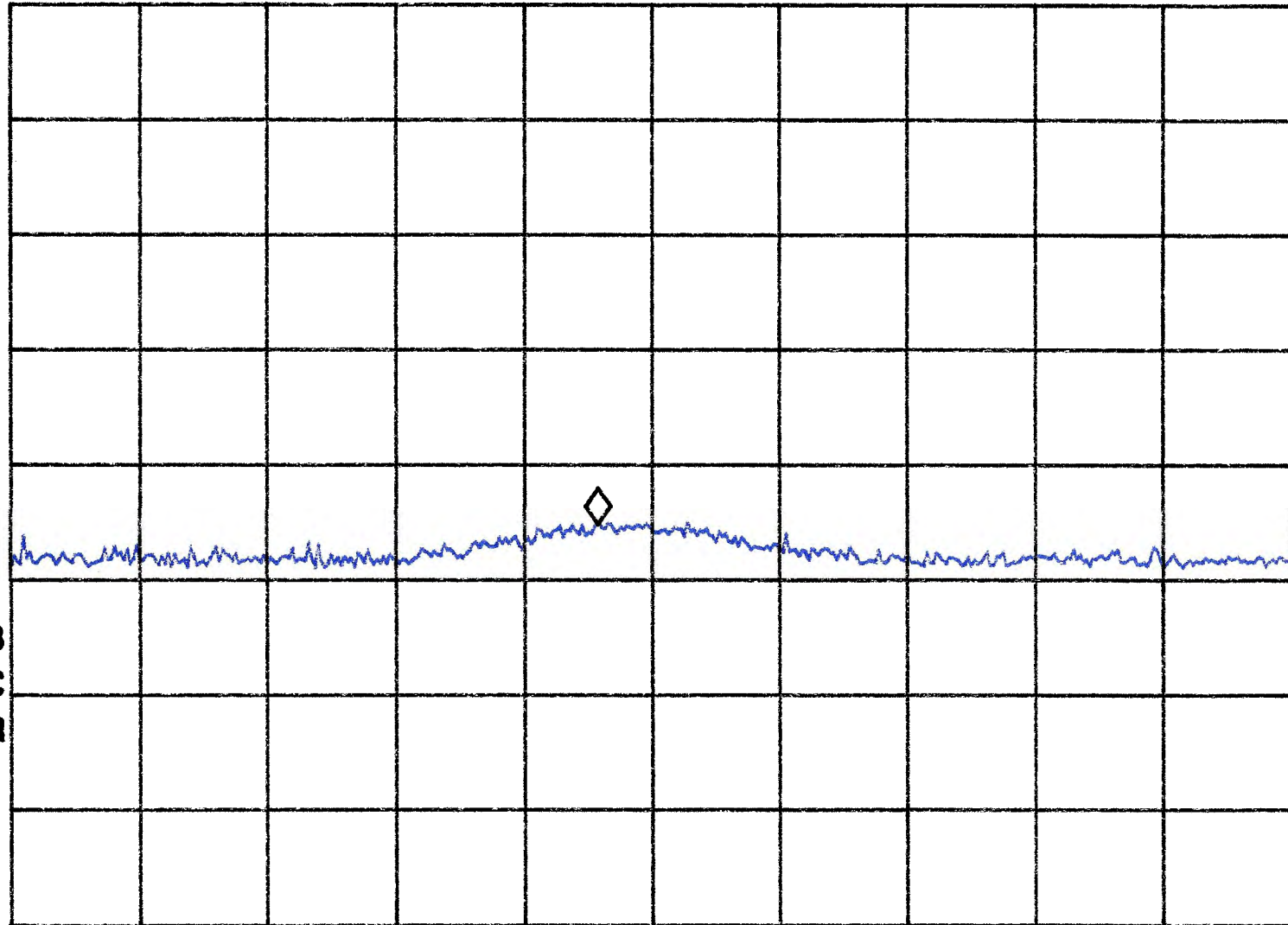
MKR 3.639788 GHz

REF 75.0 dBμV #AT 0 dB

29.81 dBμV

PEAK  
LOG  
10  
dB/

MA SB  
SC FC  
CORR



CENTER 3.640000 GHz

SPAN 5.000 MHz

#RES BW 1.0 MHz

VBW 300 kHz

SWP 20.0 msec



LTX 2.0 Short Azimuth 45°

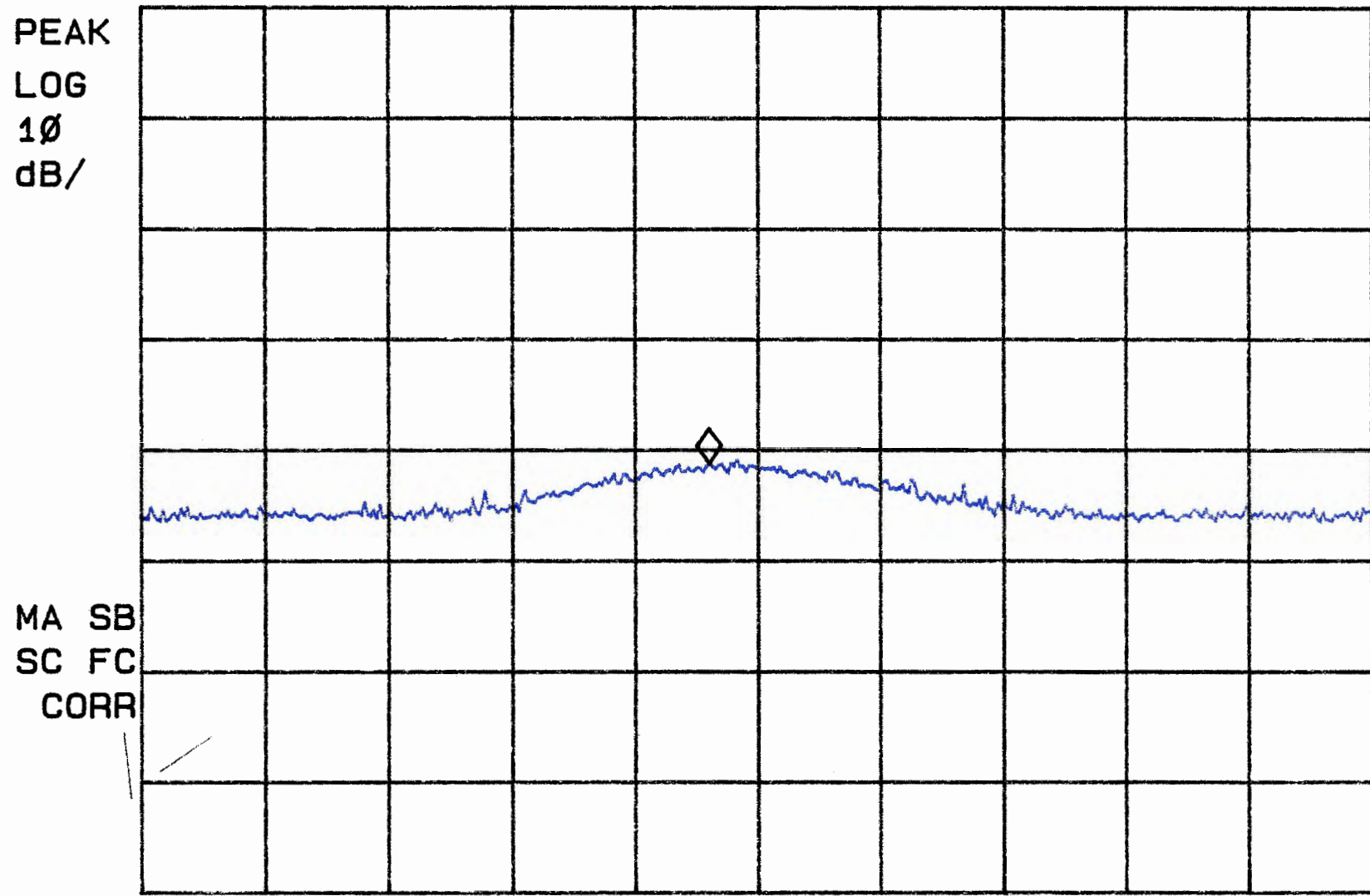
03:00:39 AUG 14, 2014

GOJO #6941 TFX 1M VERT

REF 75.0 dBμV #AT 0 dB

MKR 4.549800 GHz

33.78 dBμV



CENTER 4.550000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec

LTX 2.0 Short Azimuth 0°

03:05:00 AUG 14, 2014

GOJO #6941 TFX 1M VERT

REF 75.0 dBμV #AT 0 dB

MKR 5.459825 GHz

31.67 dBμV

PEAK

LOG

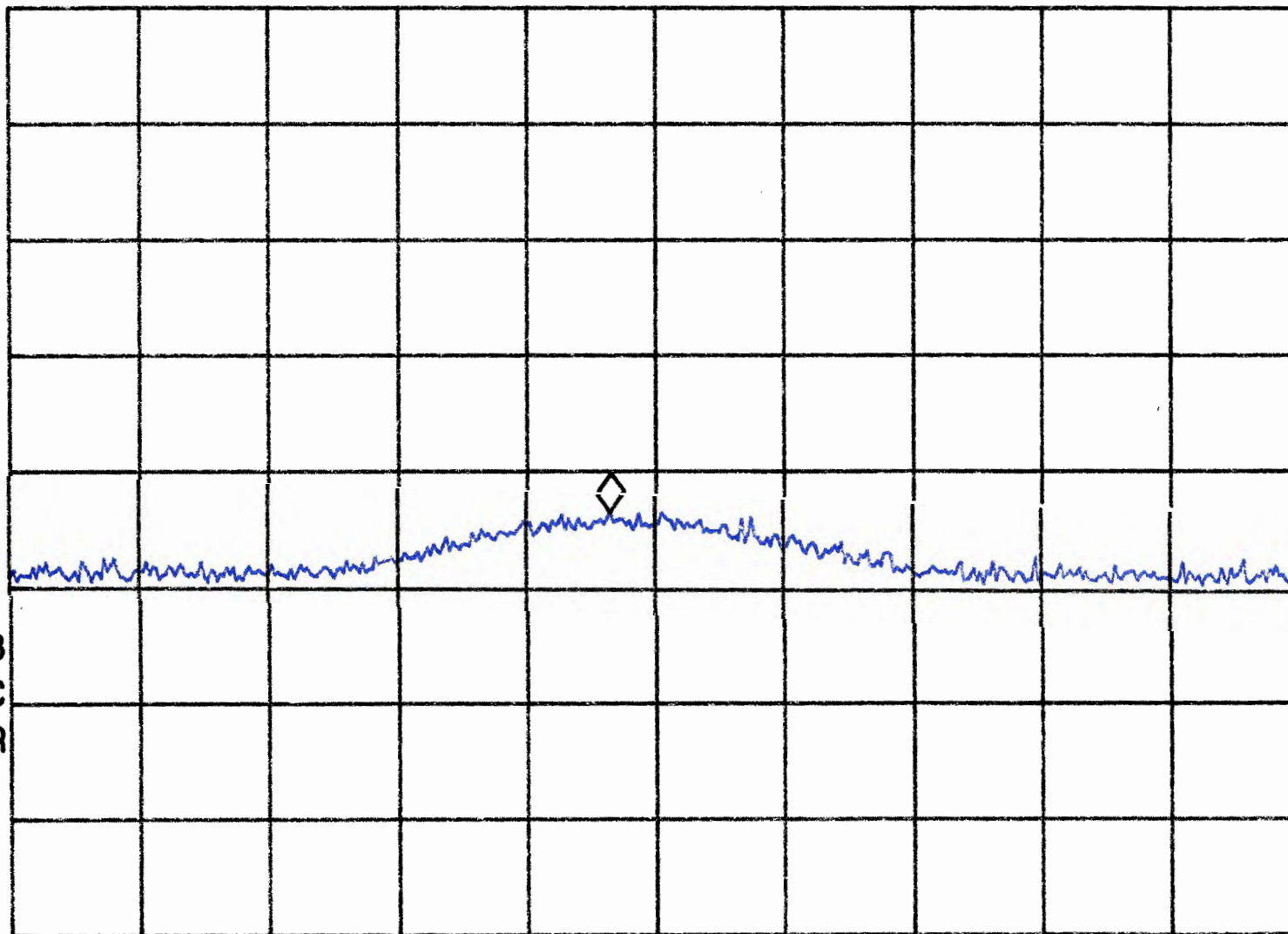
10

dB/

MA SB

SC FC

CORR



CENTER 5.460000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec

LTX 2.0 Short Azimuth 120°

03: 10: 02 AUG 14, 2014

GOJO #6941 TFX 1M VERT

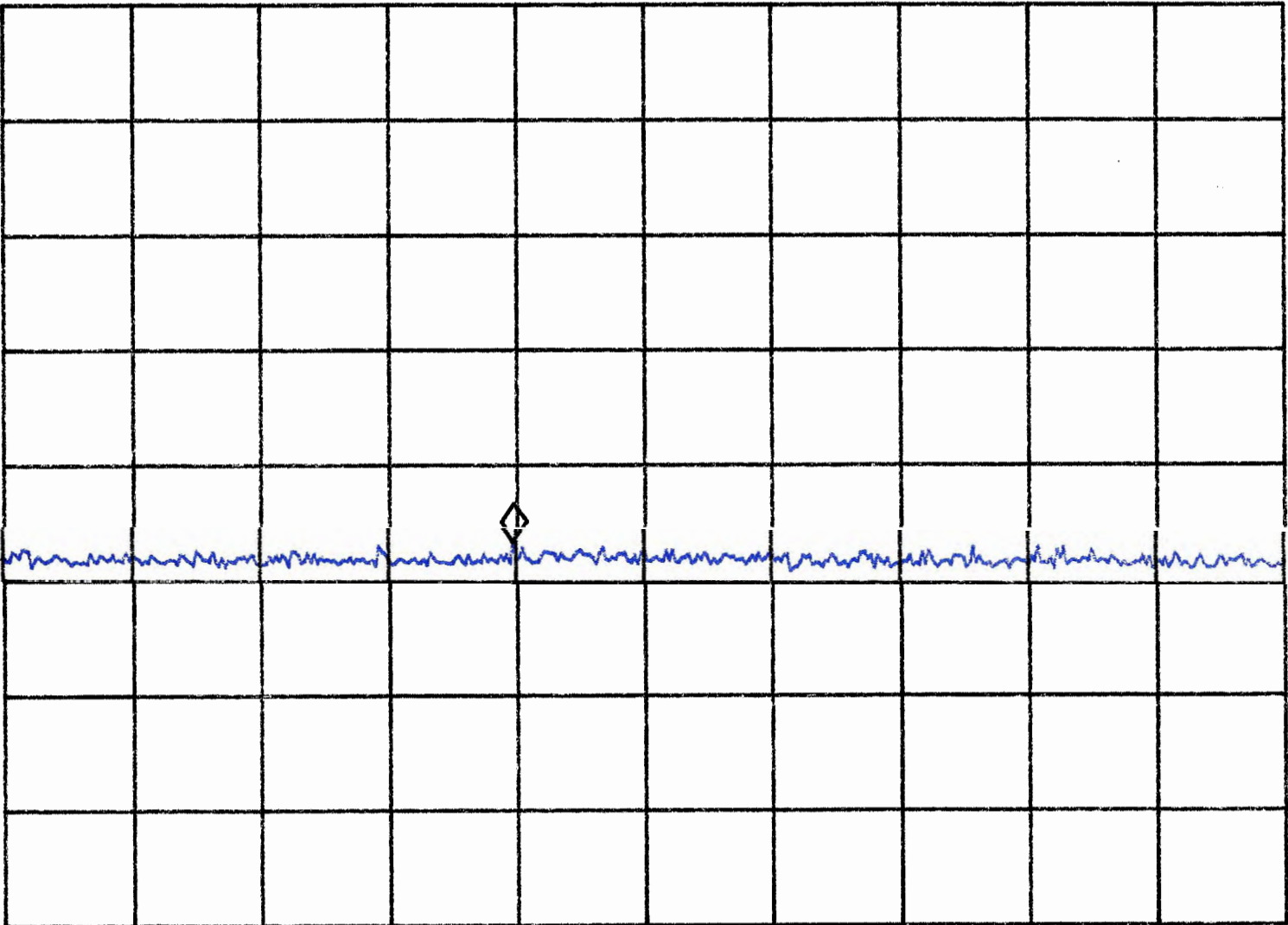
MKR 6.369488 GHz

REF 75.0 dBμV #AT 0 dB

28.50 dBμV

PEAK  
LOG  
10  
dB/

MA SB  
SC FC  
CORR



CENTER 6.370000 GHz

SPAN 5.000 MHz

#RES BW 1.0 MHz

VBW 300 kHz

SWP 20.0 msec

LTX 2.0 Short Azimuth 280°

03: 14: 58 AUG 14, 2014

hp GOJO #6941 TFX 1M VERT

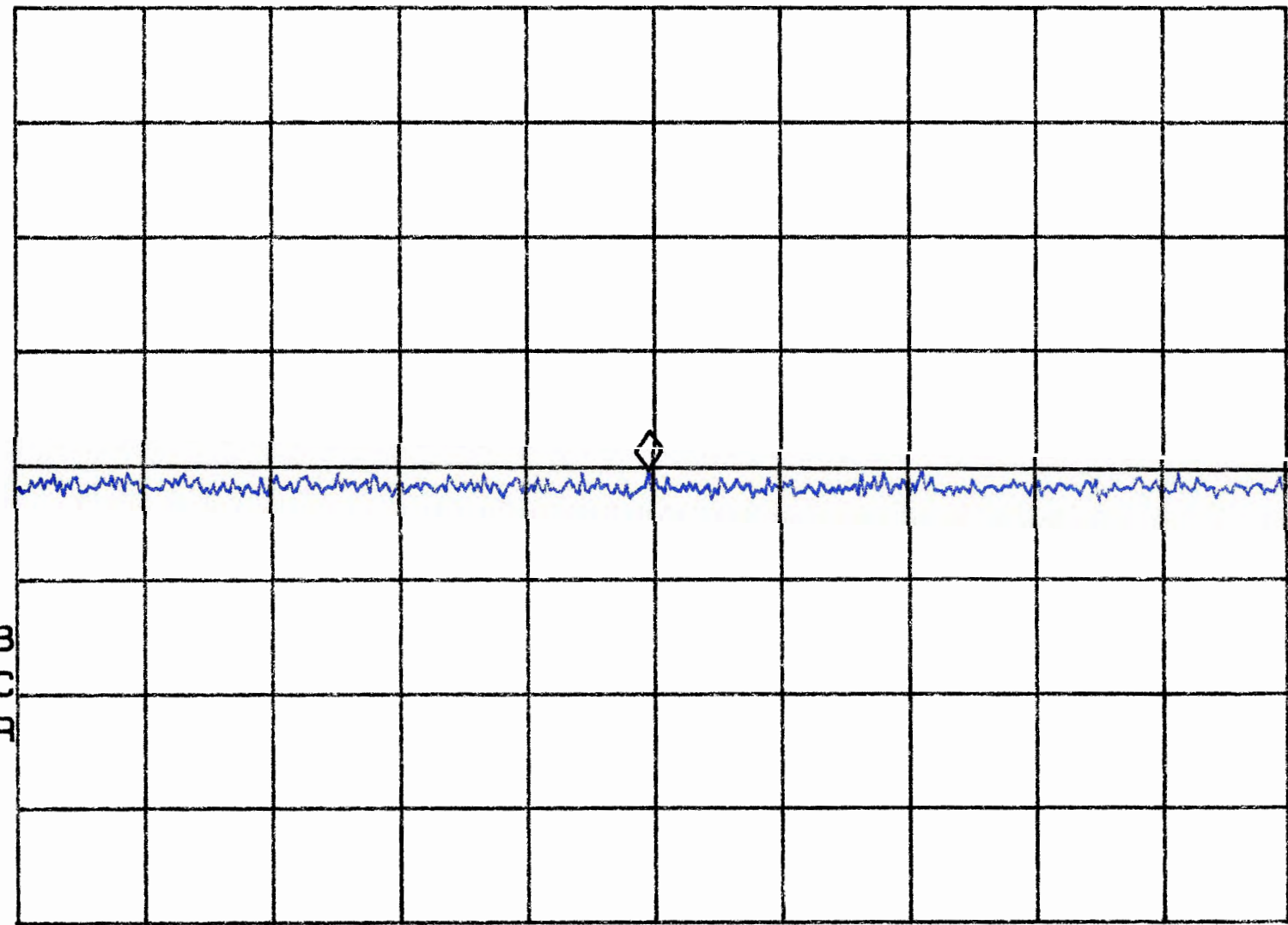
REF 75.0 dBμV #AT 0 dB

MKR 7.279975 GHz

34.79 dBμV

PEAK  
LOG  
10  
dB/

MA SB  
SC FC  
CORR



CENTER 7.280000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec

LTX 2.0 Short Azimuth 100°

03:20:50 AUG 14, 2014

hp GOJO #6941 TFX 1M VERT

REF 75.0 dBμV #AT 0 dB

MKR 8.189950 GHz

36.84 dBμV

PEAK

LOG

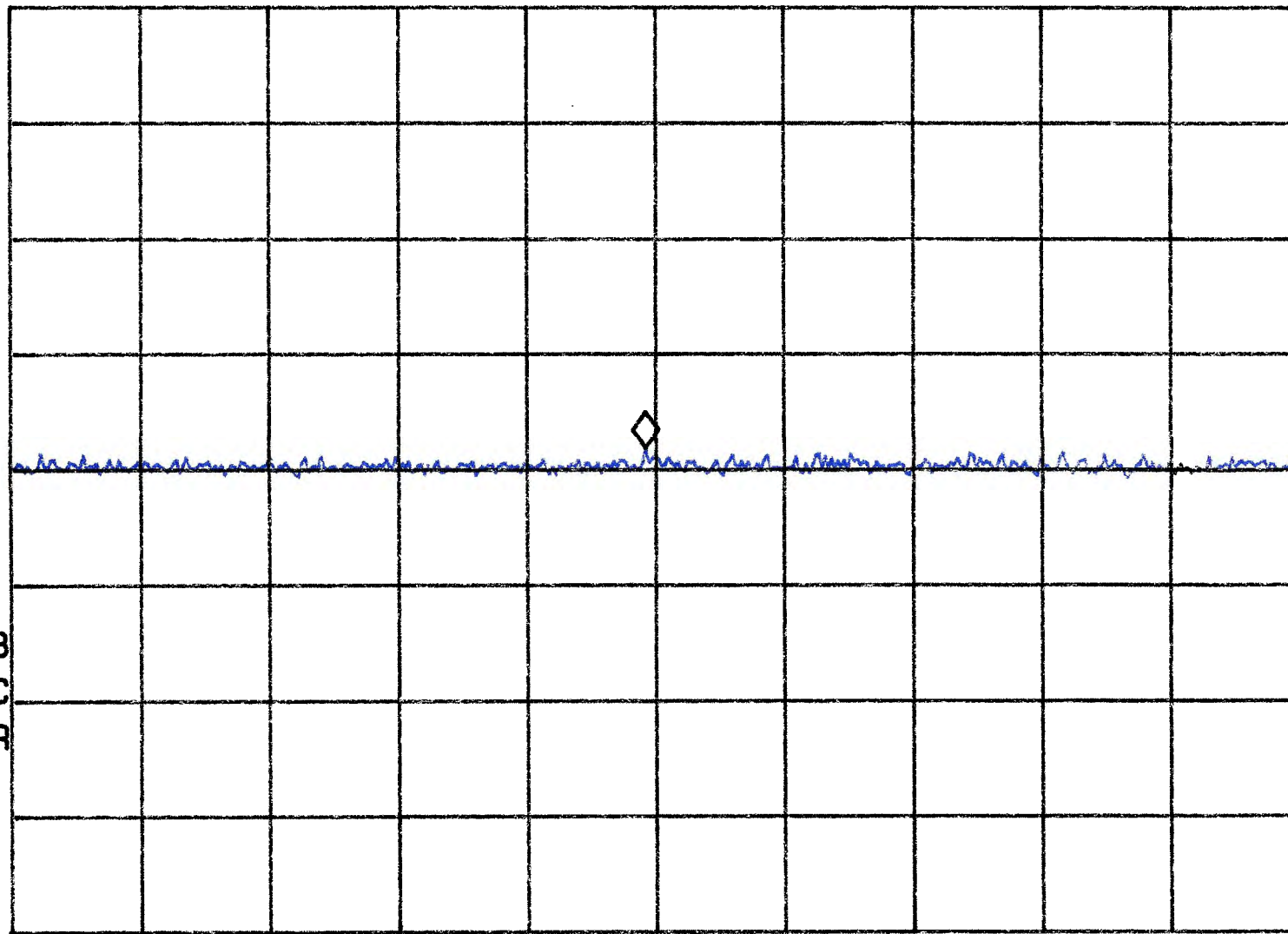
10

dB/

MA SB

SC FC

CORR



CENTER 8.190000 GHz

#RES BW 1.0 MHz

SPAN 5.000 MHz

VBW 300 kHz

SWP 20.0 msec



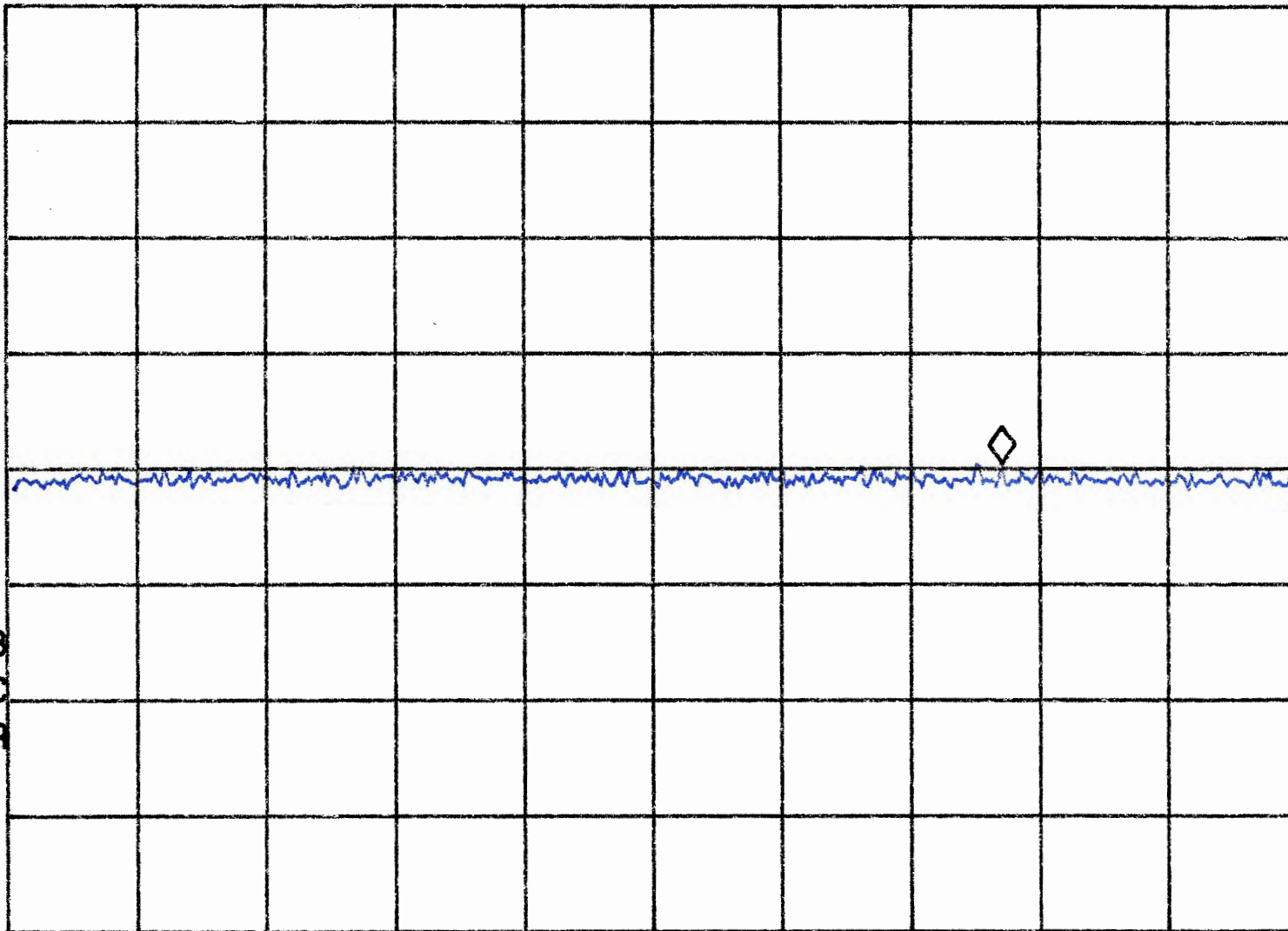
LTX 2.0 Short Azimuth 350°

03:27:05 AUG 14, 2014  
hp GOJO #6941 TFX 1M VERT  
REF 75.0 dBμV #AT 0 dB

MKR 9.101337 GHz  
35.53 dBμV

PEAK  
LOG  
10  
dB/

MA SB  
SC FC  
CORR



CENTER 9.100000 GHz  
#RES BW 1.0 MHz

VBW 300 kHz

SPAN 5.000 MHz  
SWP 20.0 msec

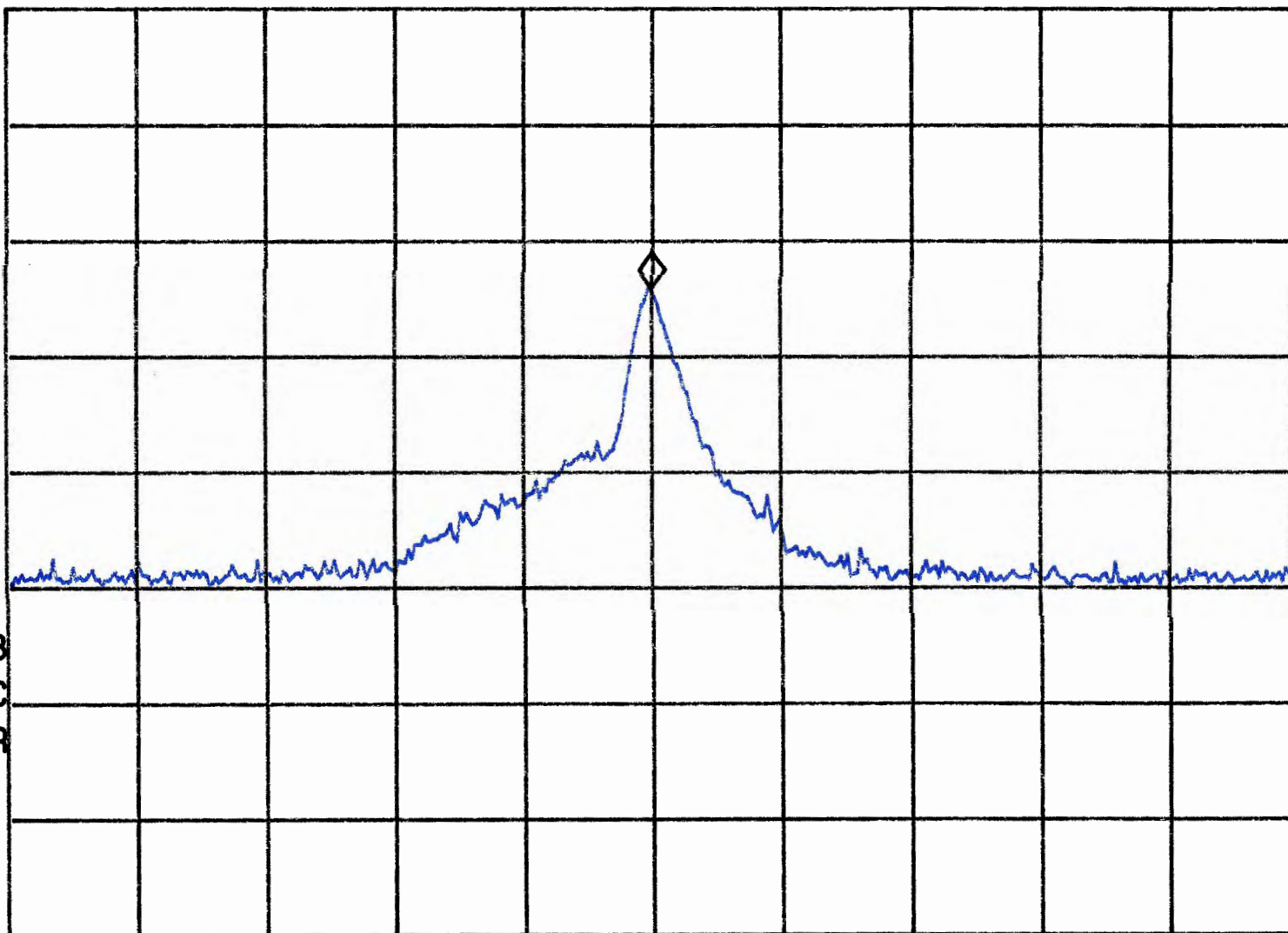
23: 28: 06 AUG 10, 2014  
hp GOJO #6491 TFX 3M HORI  
REF 70.0 dBμV #AT 0 dB

LTX 2.0 Short Azimuth 160°

MKR 909.987 MHz  
45.92 dBμV

PEAK  
LOG  
10  
dB/

MA SB  
SC FC  
CORR



CENTER 910.000 MHz

#RES BW 120 kHz

VBW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec

Azimuth 175°

23: 28: 56 OCT 06, 2014

GOJO 6491 LTX SHORT: 1M: ANT: HOR

MKR 1.819838 GHz

REF 75.0 dBμV #AT 0 dB

48.29 dBμV

PEAK

LOG

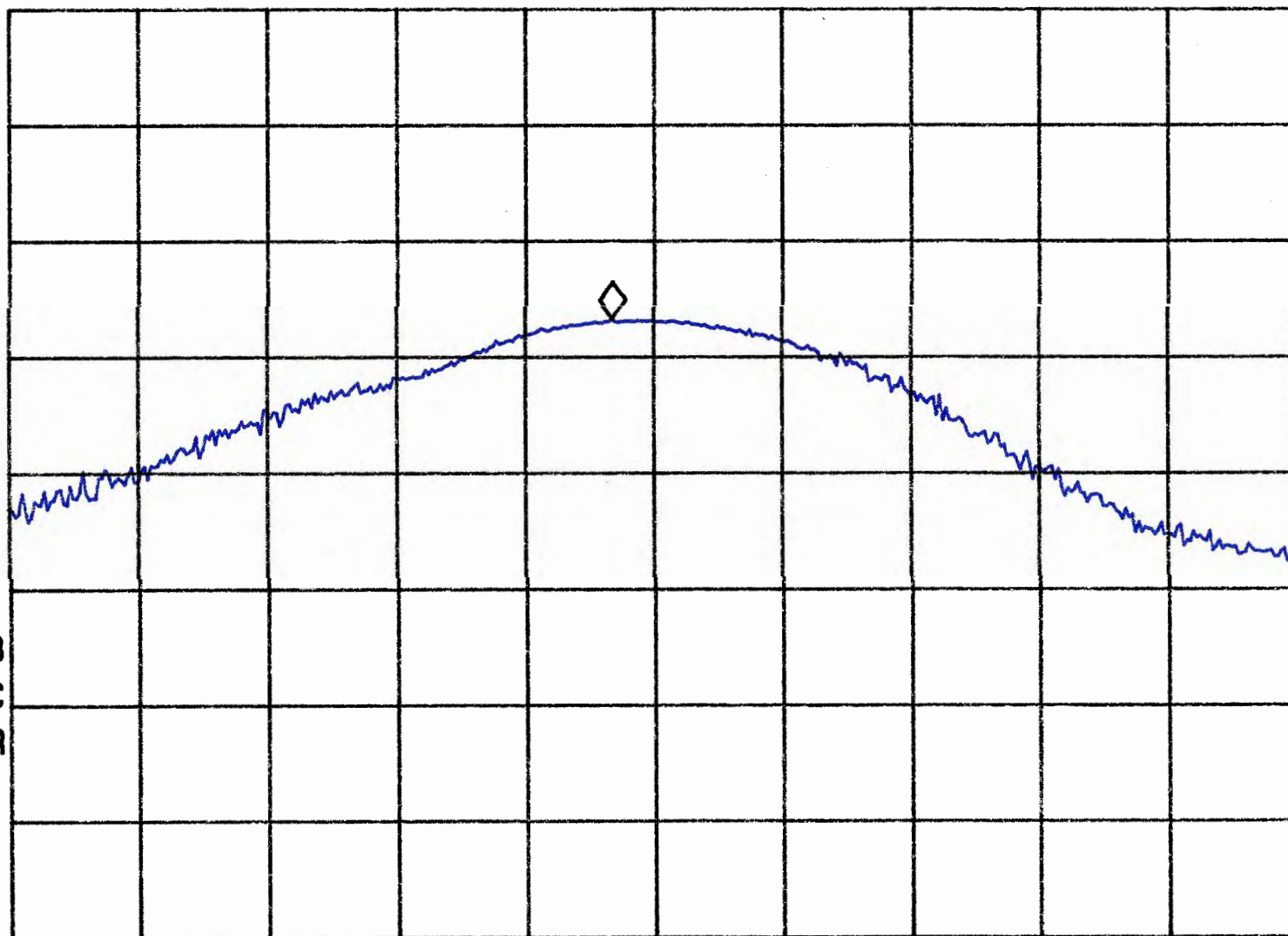
10

dB/

MA SB

SC FC

CORR



CENTER 1.820000 GHz

#RES BW 1.0 MHz

SPAN 5.000 MHz

VBW 300 kHz

SWP 20.0 msec



22:27:02 OCT 21, 2014

# 6000 6491 LTX 2.0 SHORT ANT-HOR

MKR 2.730050 GHz

REF 80.0 dBμV

#AT 0 dB

32.13 dBμV

PEAK

LOG

10

dB/

VA SB

SC FC

CORR

CENTER 2.730000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec

Azimuth 0°

23:39:00 OCT 06, 2014

GOJO 6491 LTX SHORT: 1M: ANT: HOR

MKR 3.640075 GHz

REF 75.0 dBμV #AT 0 dB

30.01 dBμV

PEAK

LOG

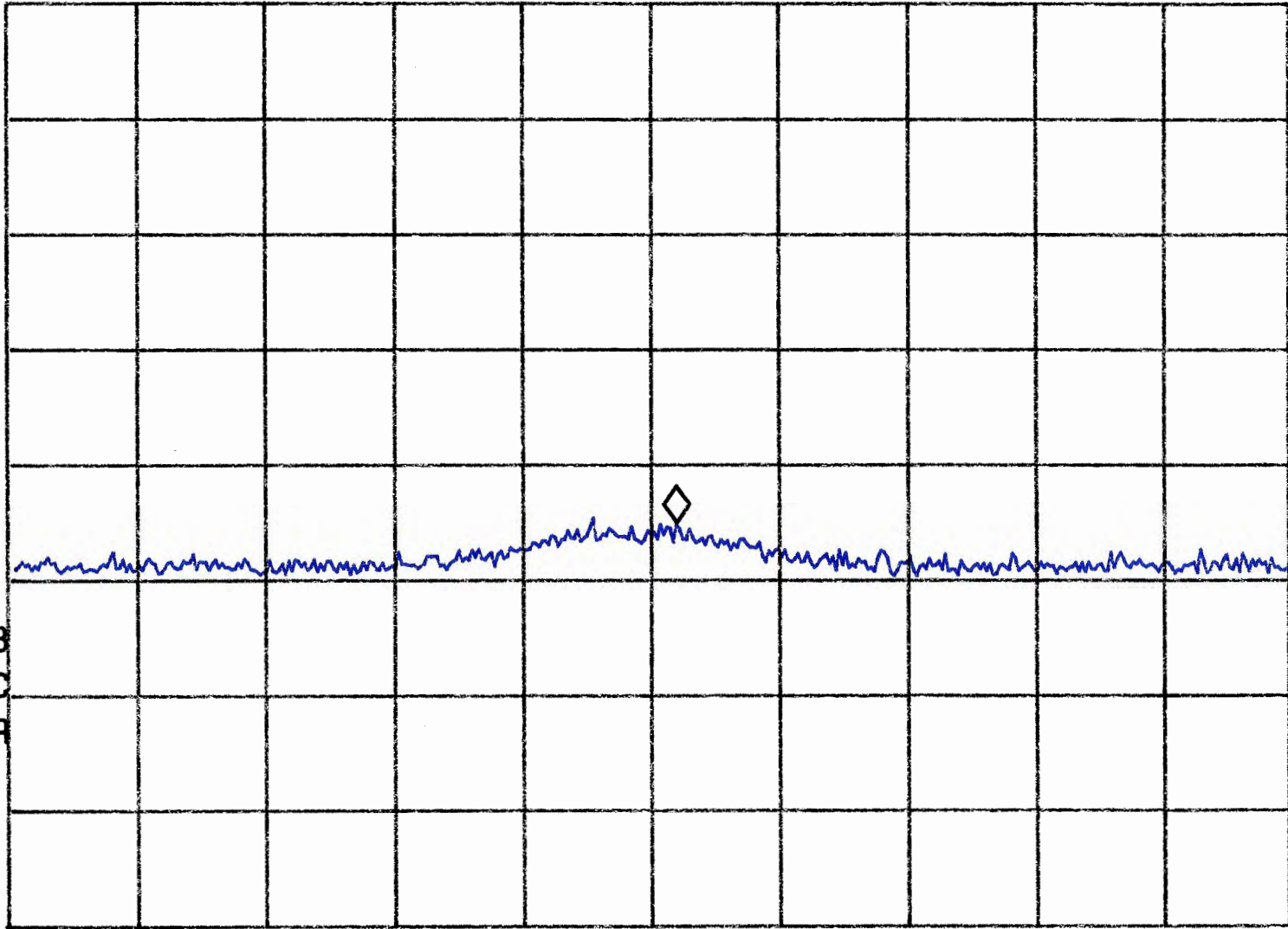
10

dB/

MA SB

SC FC

CORR



CENTER 3.640000 GHz

SPAN 5.000 MHz

#RES BW 1.0 MHz

VBW 300 kHz

SWP 20.0 msec

Azimuth 200°

23: 45: 43 OCT 06, 2014

hp 60J0 6491 LTX SHORT: 1M: ANT: HOR

MKR 4.550300 GHz

REF 75.0 dBμV #AT 0 dB

29.53 dBμV

PEAK

LOG

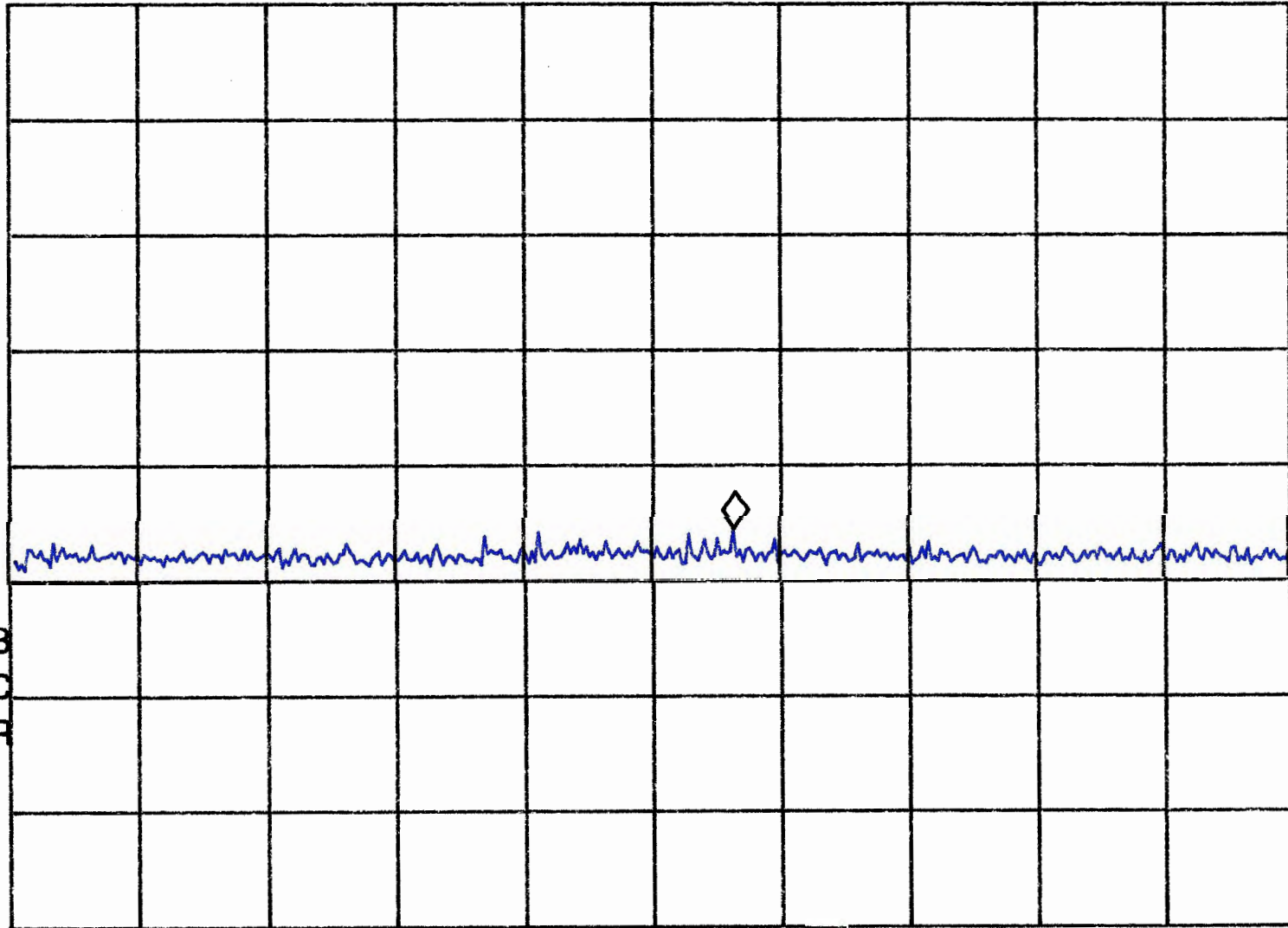
10

dB/

MA SB

SC FC

CORR



CENTER 4.550000 GHz

SPAN 5.000 MHz

#RES BW 1.0 MHz

VBW 300 kHz

SWP 20.0 msec

Azimuth 285°

23: 50: 43 OCT 06, 2014

GOJO 6491 LTX SHORT: 1M: ANT: HOR

REF 75.0 dBμV #AT 0 dB

MKR 5.459538 GHz

27.62 dBμV

PEAK

LOG

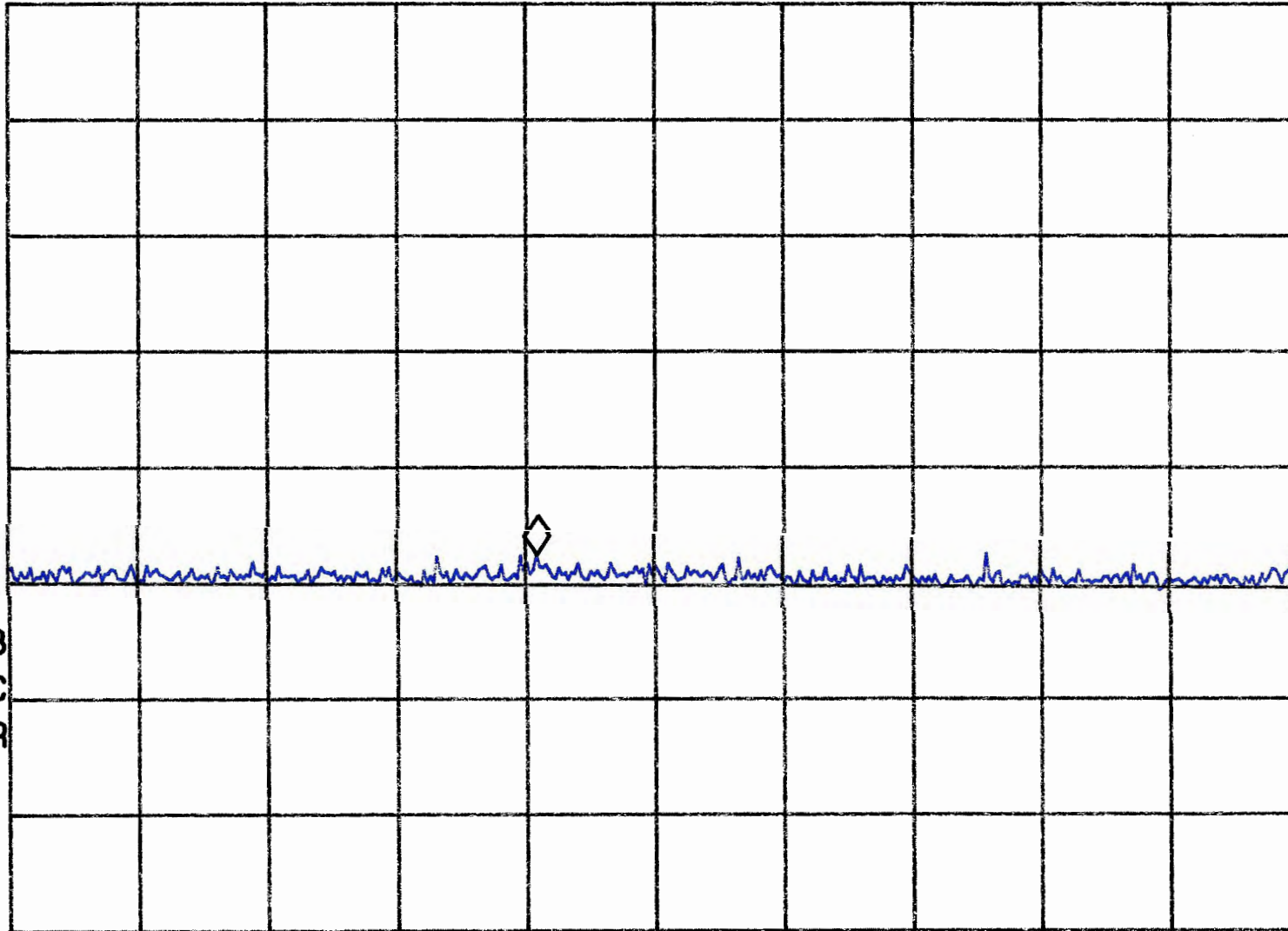
10

dB/

MA SB

SC FC

CORR



CENTER 5.460000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec

Azimuth 95°

23:54:30 OCT 06, 2014

HP GOJO 6491 LTX SHORT: 1M: ANT: HOR

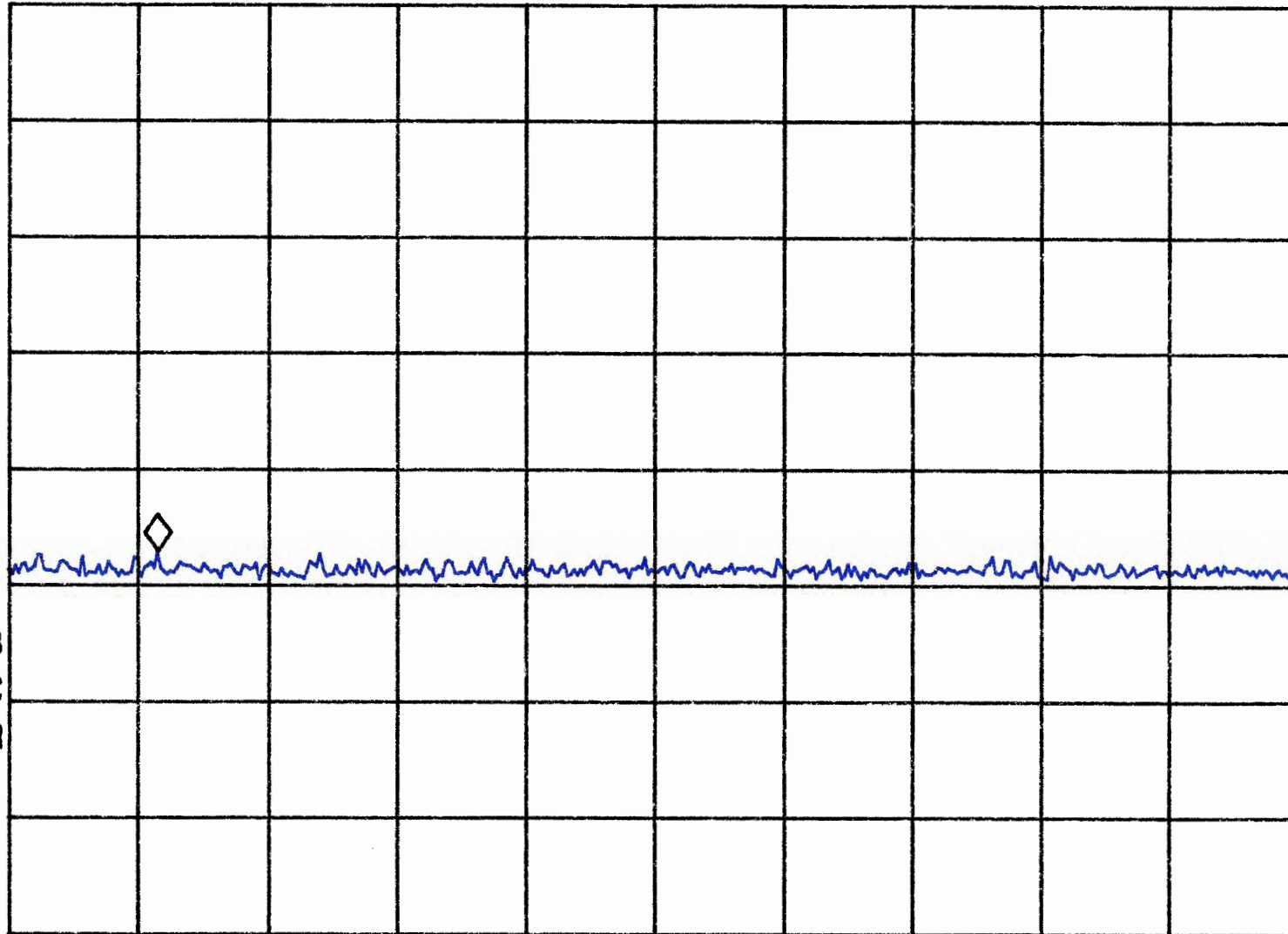
MKR 6.368075 GHz

REF 75.0 dBμV #AT 0 dB

27.96 dBμV

PEAK  
LOG  
10  
dB/

MA SB  
SC FC  
CORR



CENTER 6.370000 GHz

SPAN 5.000 MHz

#RES BW 1.0 MHz

VBW 300 kHz

SWP 20.0 msec

Azimuth 0°

23:59:27 OCT 06, 2014

GOJO 6491 LTX SHORT: 1M: ANT: HOR

MKR 7.279438 GHz

REF 75.0 dBμV #AT 0 dB

35.08 dBμV

PEAK

LOG

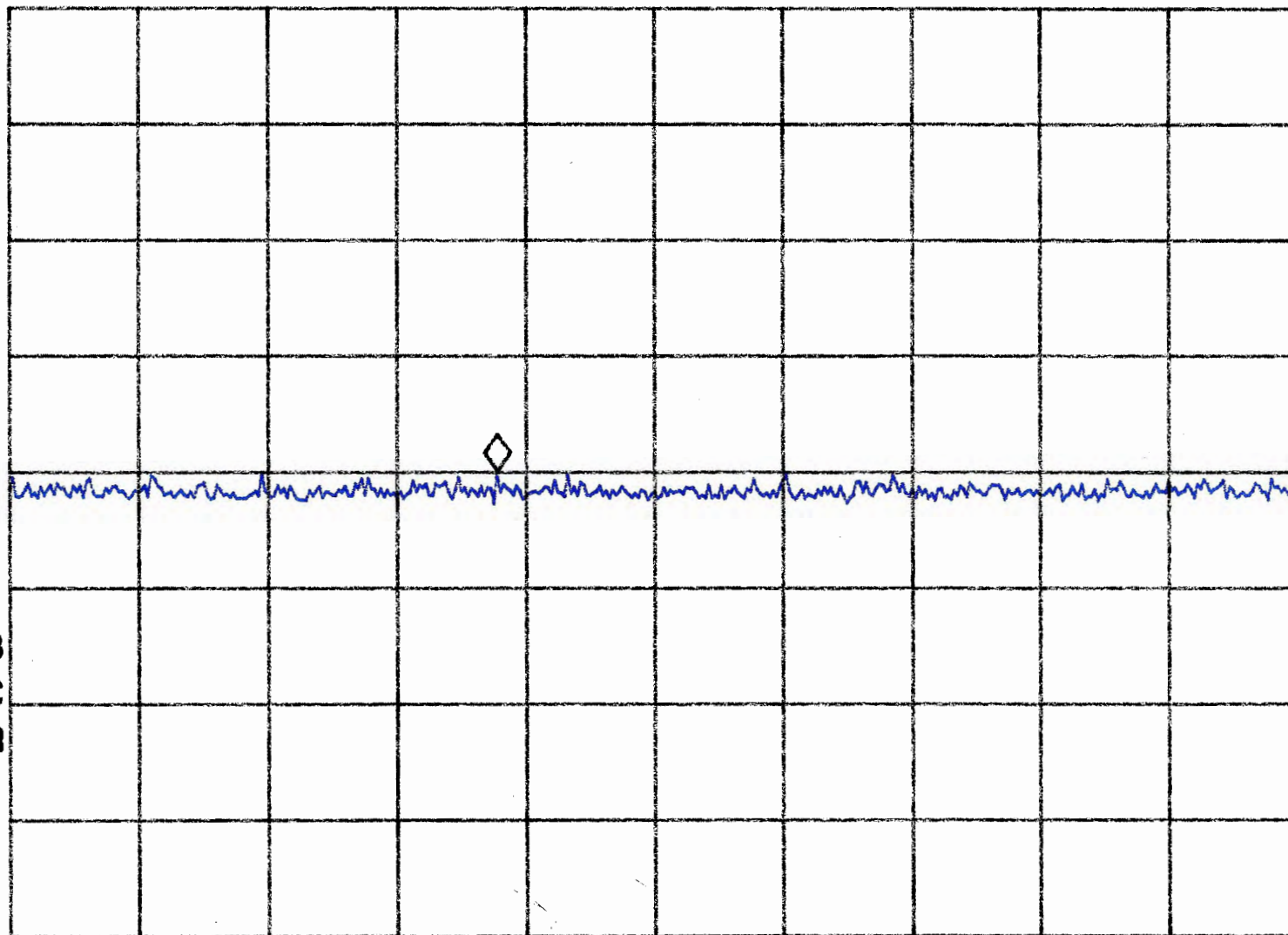
10

dB/

MA SB

SC FC

CORR



CENTER 7.280050 GHz

SPAN 5.000 MHz

#RES BW 1.0 MHz

VBW 300 kHz

SWP 20.0 msec



Azimuth 270°

00:04:25 OCT 07, 2014

GOJO 6491 LTX SHORT: 1M: ANT: HOR

MKR 8.191625 GHz

REF 75.0 dBμV #AT 0 dB

37.05 dBμV

PEAK

LOG

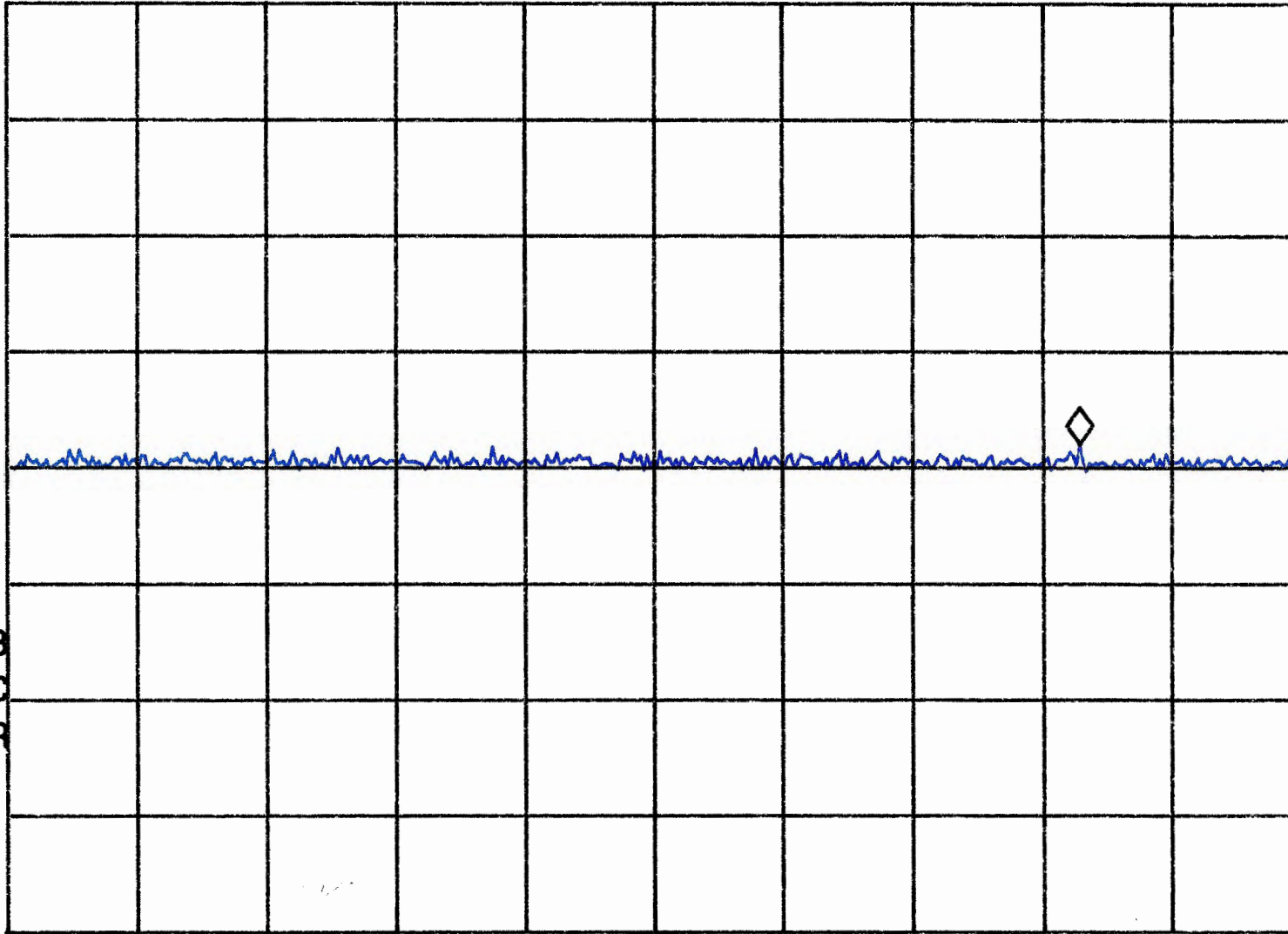
10

dB/

MA SB

SC FC

CORR



CENTER 8.190000 GHz

SPAN 5.000 MHz

#RES BW 1.0 MHz

VBW 300 kHz

SWP 20.0 msec

Azimuth 100°

00:08:23 OCT 07, 2014

GOJO 6491 LTX SHORT: 1M: ANT: HOR

MKR 9.100750 GHz

REF 75.0 dBμV #AT 0 dB

35.58 dBμV

PEAK

LOG

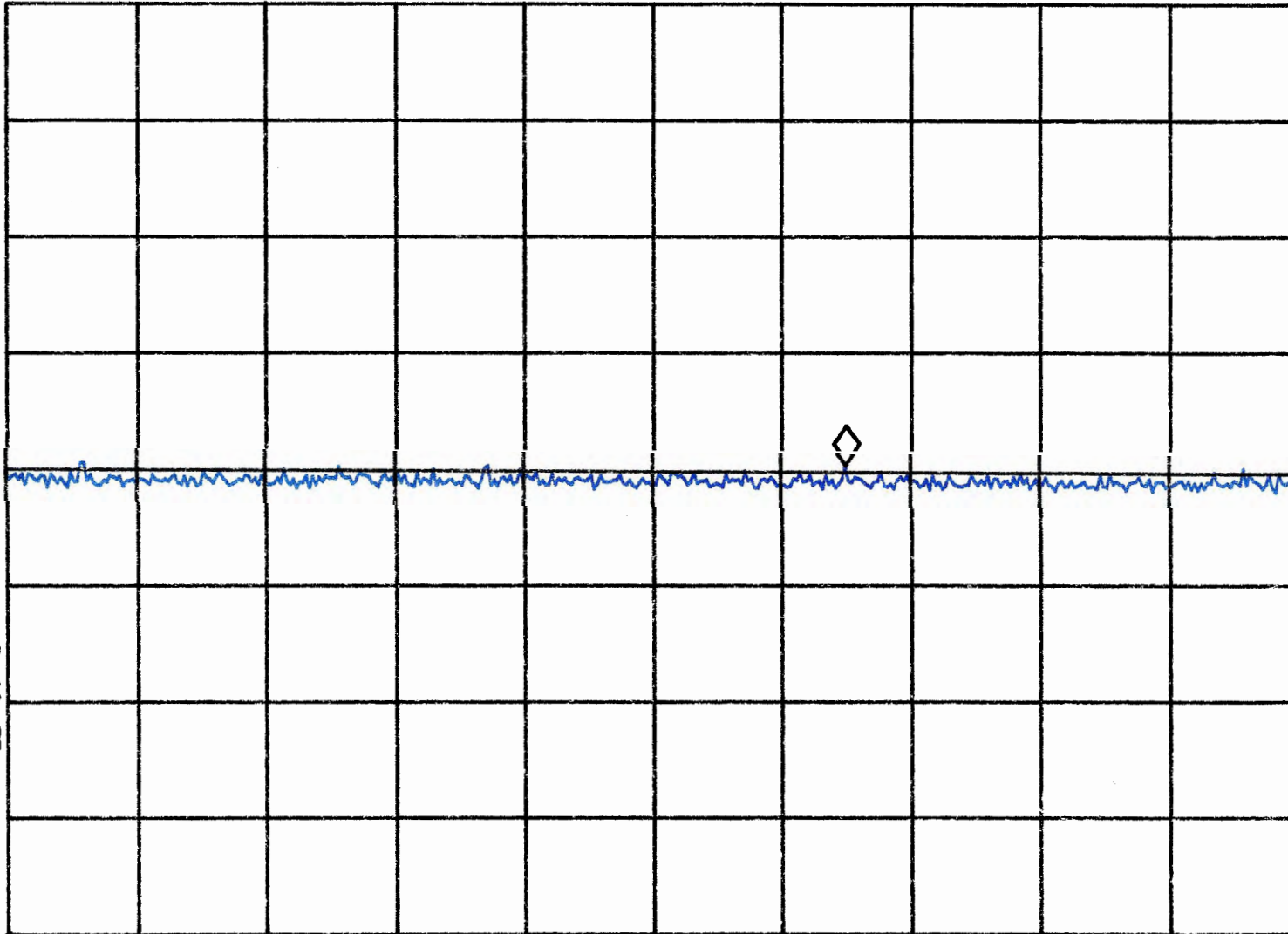
10

dB/

MA SB

SC FC

CORR



CENTER 9.100000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec