

DIVERSIFIED

T.E.S.T.

TECHNOLOGIES, INC.

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

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.

Sincerely,

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

Prasanna Gautam
Technical Associate

<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
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

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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.**

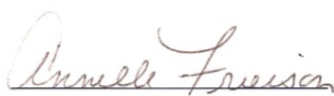
Complied by:
Signature:



Date: October 21, 2014

Prasanna Gautam
Technical Associate

Reviewed by:
Signature:



Date: October 21, 2014

Annelle Frierson
Vice- President

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 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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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 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 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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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

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 10th 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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<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
GOJO Industries	Project Number: 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: LTX-7				13XX- ##-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	6491	Duty Cycle Correction (dB)	FCC Limit (uV/M) at 3M	Corrected Field Strength to 3M in uV/M Peak	Delta Limit (dB)	Polarity
						Antenna Gain (dB)	Measurement Distance (Meters)					
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

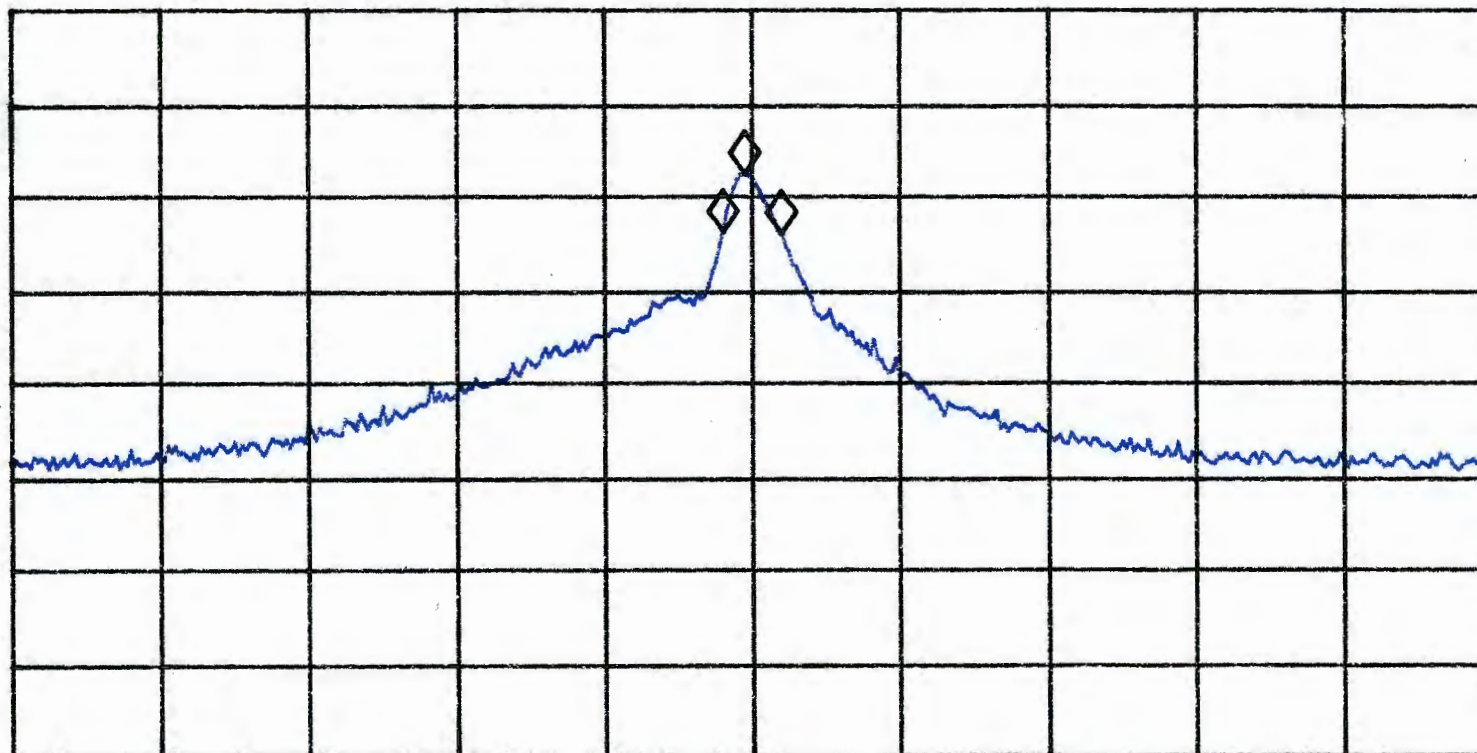
-0.12 dB

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

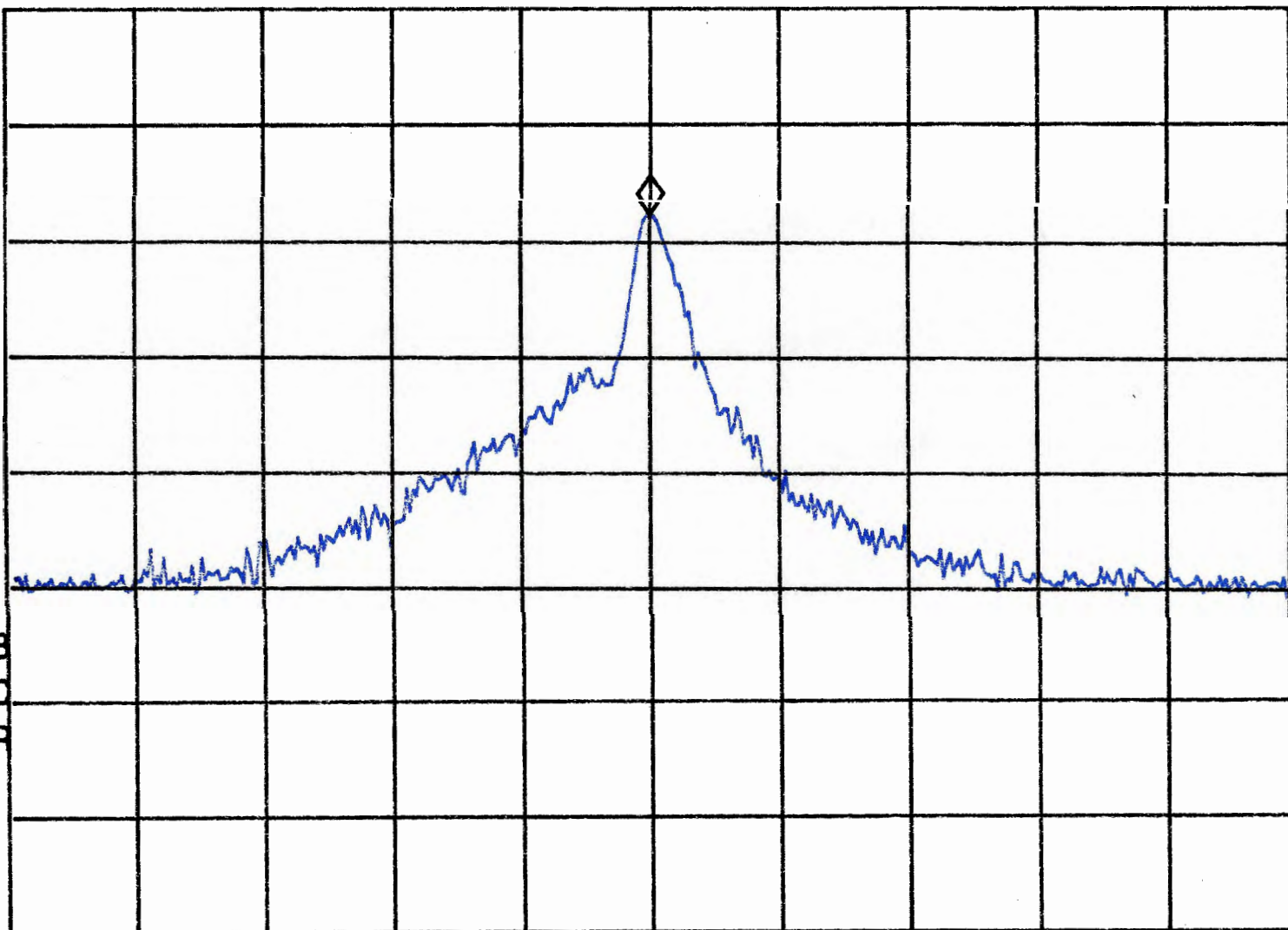
REF 70.0 dBμV #AT 0 dB

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

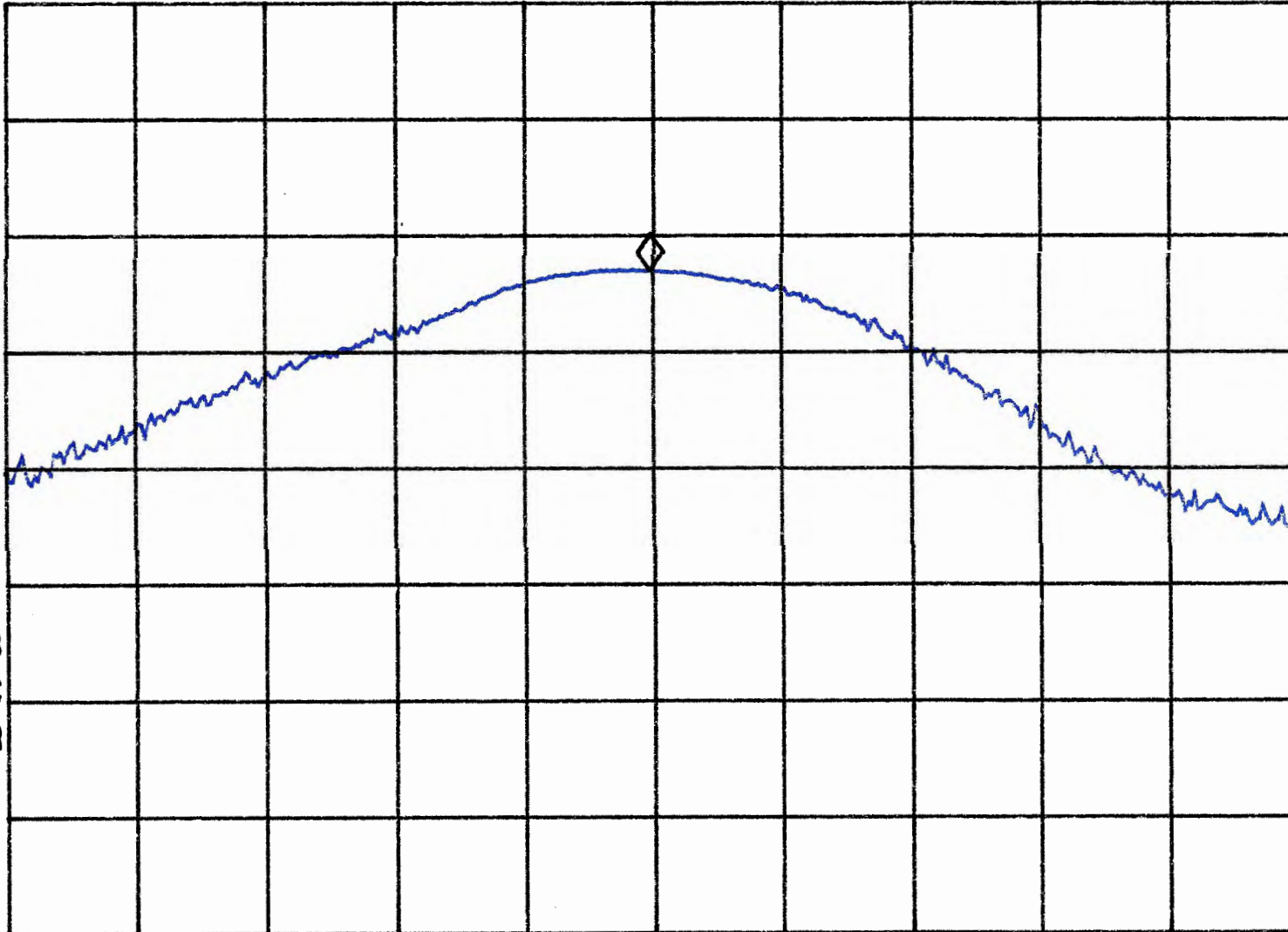
10

dB/

MA SB

SC FC

CORR



CENTER 1.820000 GHz

#RES BW 1.0 MHz

SPAN 5.000 MHz

VBW 300 kHz

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

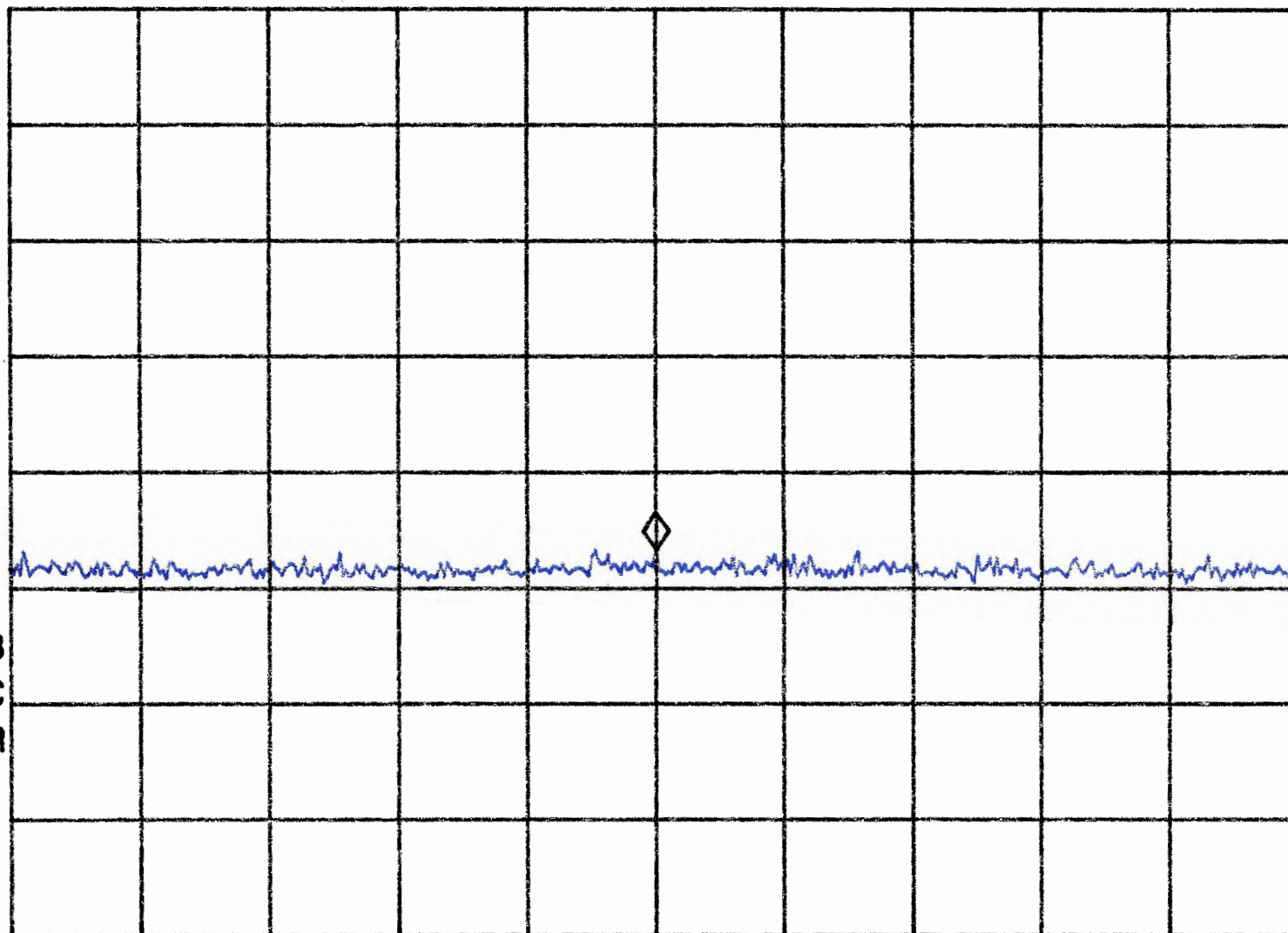
10

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

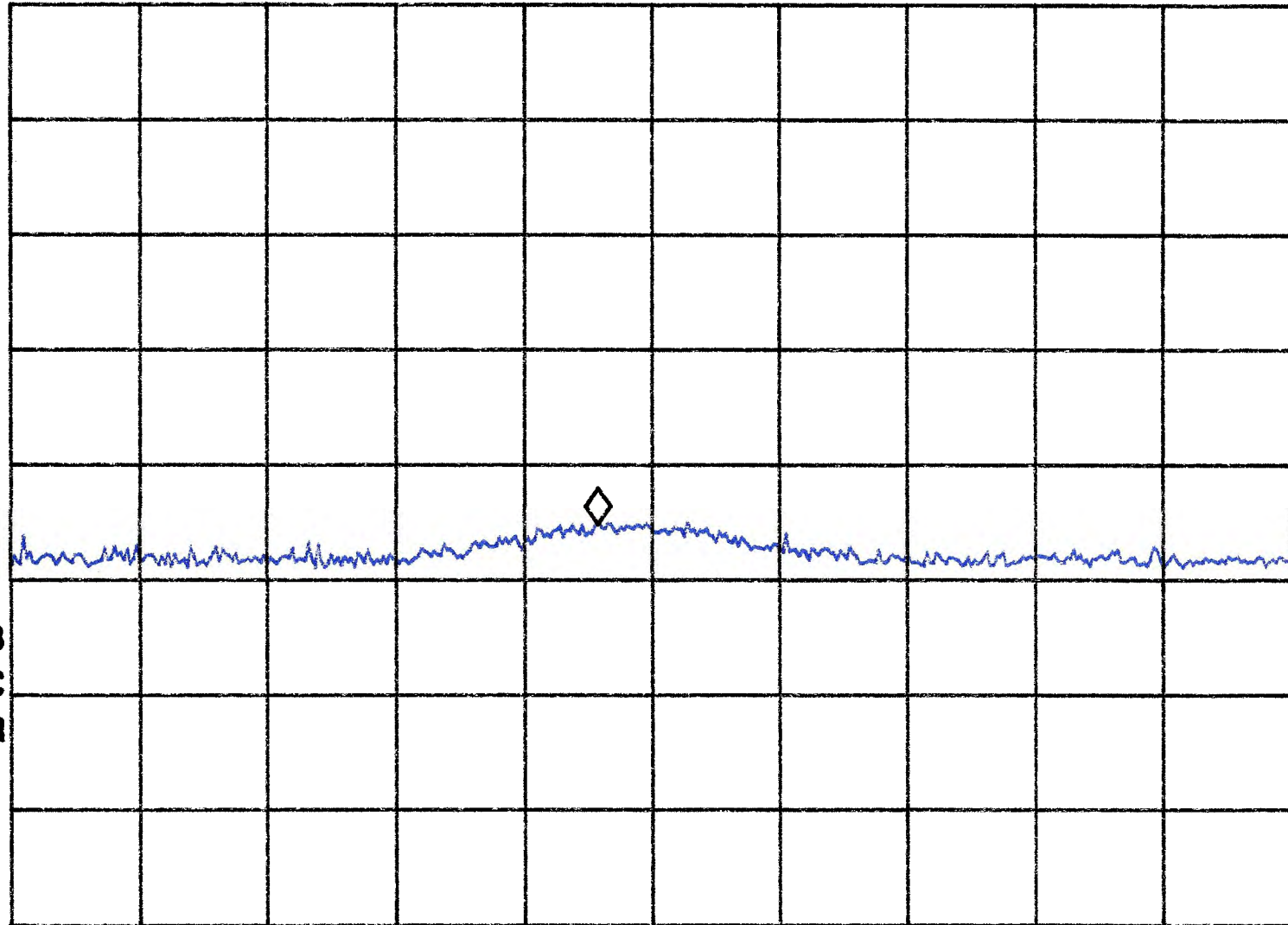
MKR 3.639788 GHz

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

PEAK

LOG

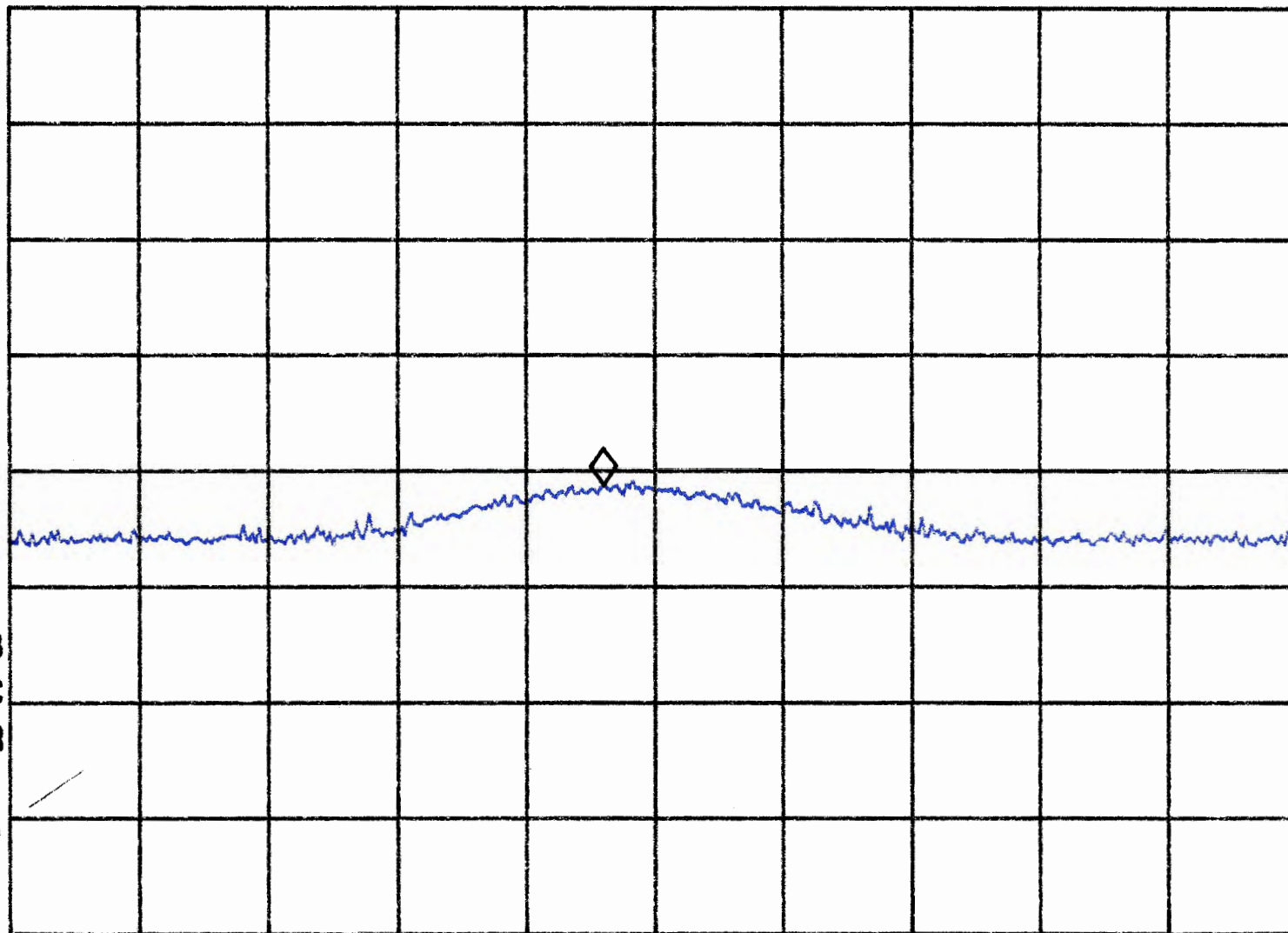
10

dB/

MA SB

SC FC

CORR



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

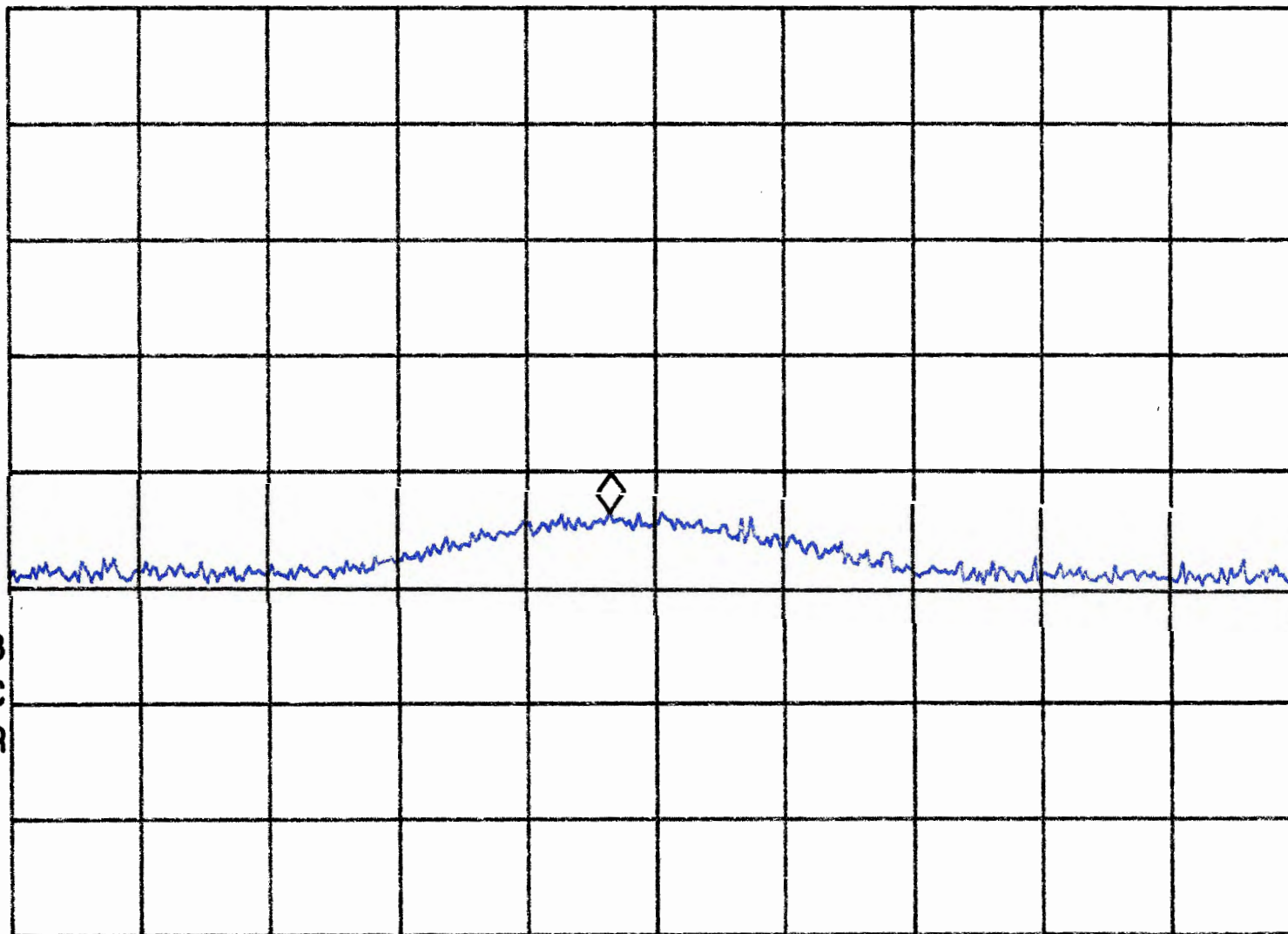
10

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

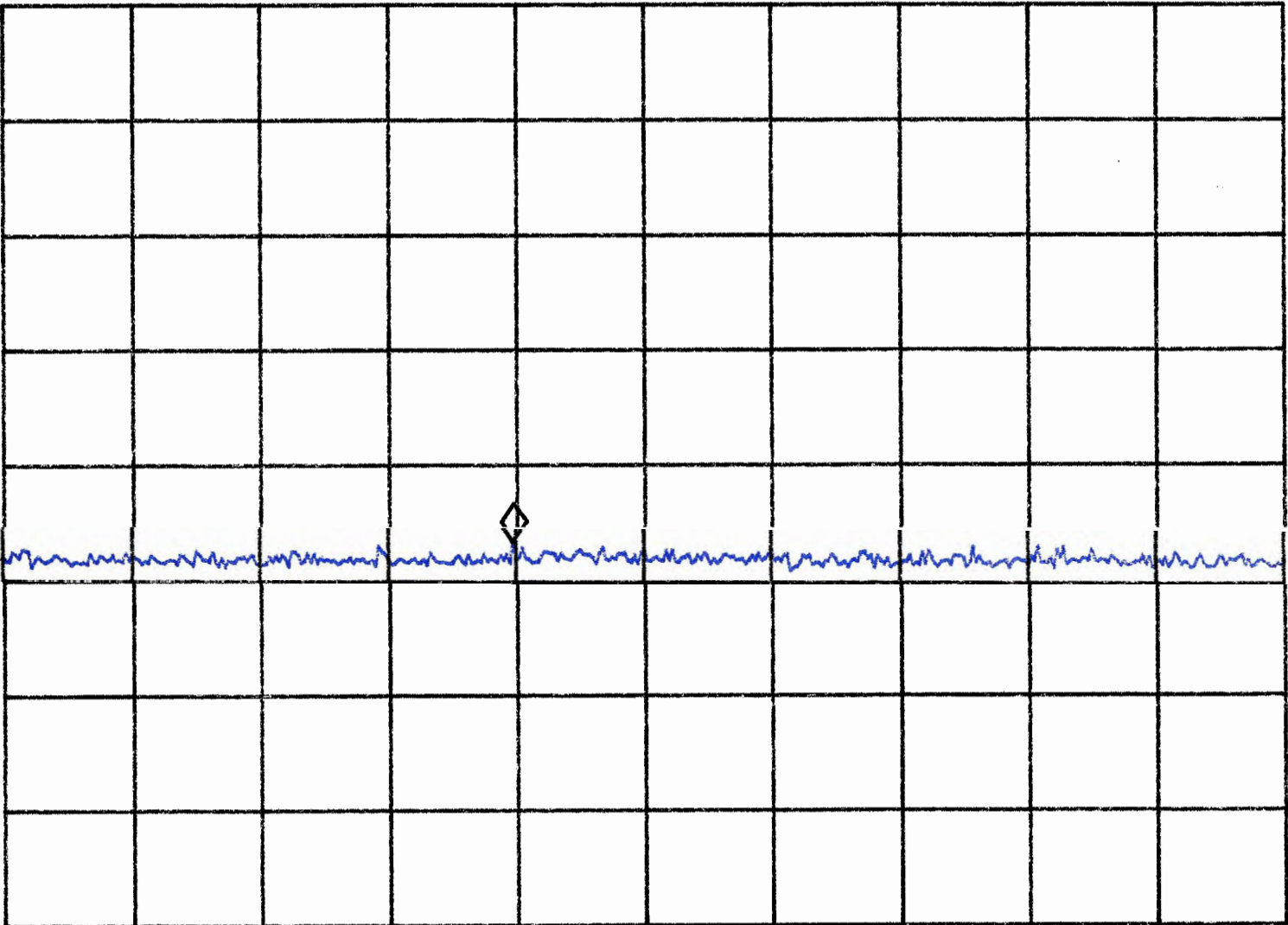
MKR 6.369488 GHz

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

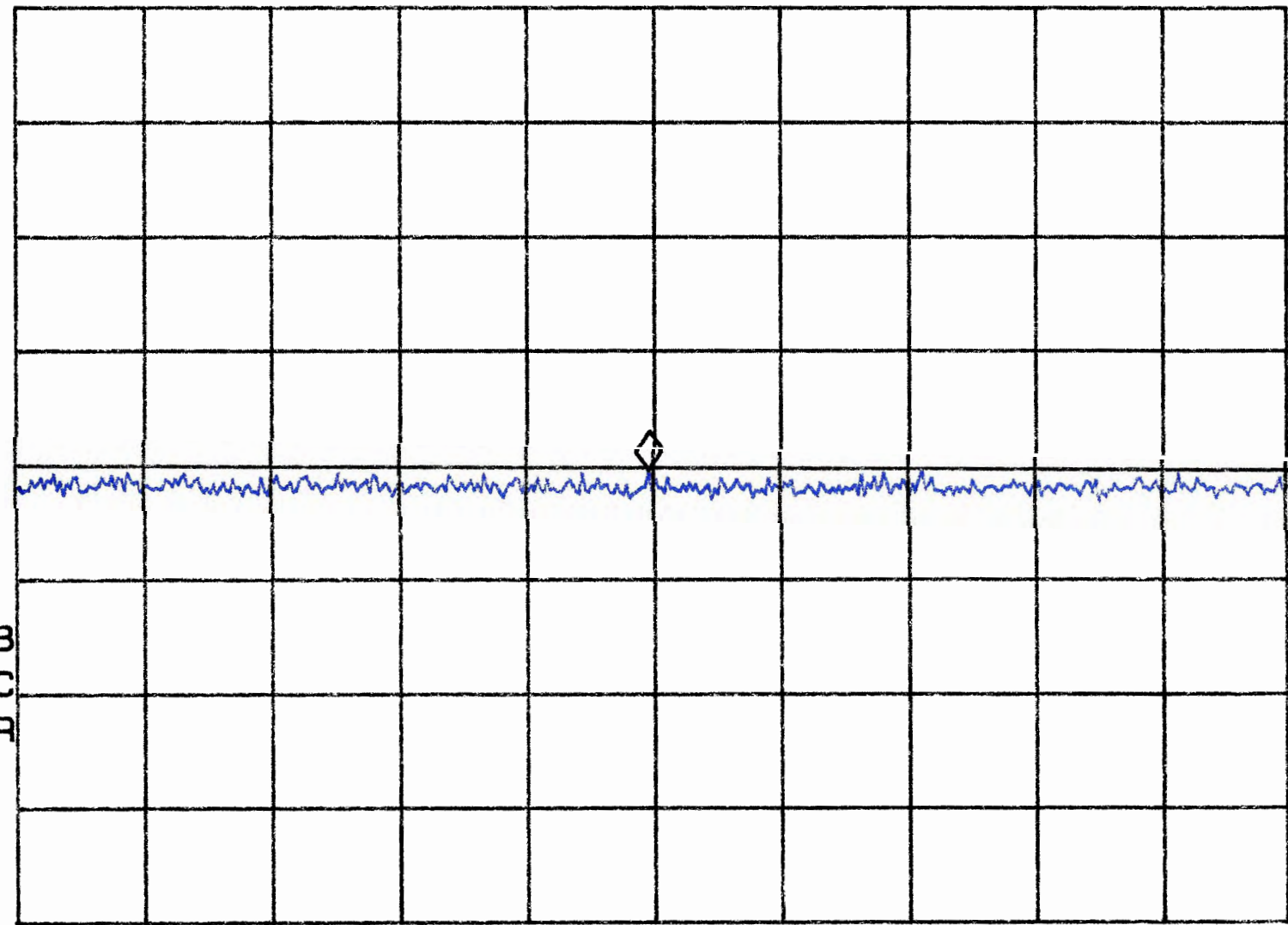
10

dB/

MA SB

SC FC

CORR



CENTER 7.280000 GHz

#RES BW 1.0 MHz

SPAN 5.000 MHz

VBW 300 kHz

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

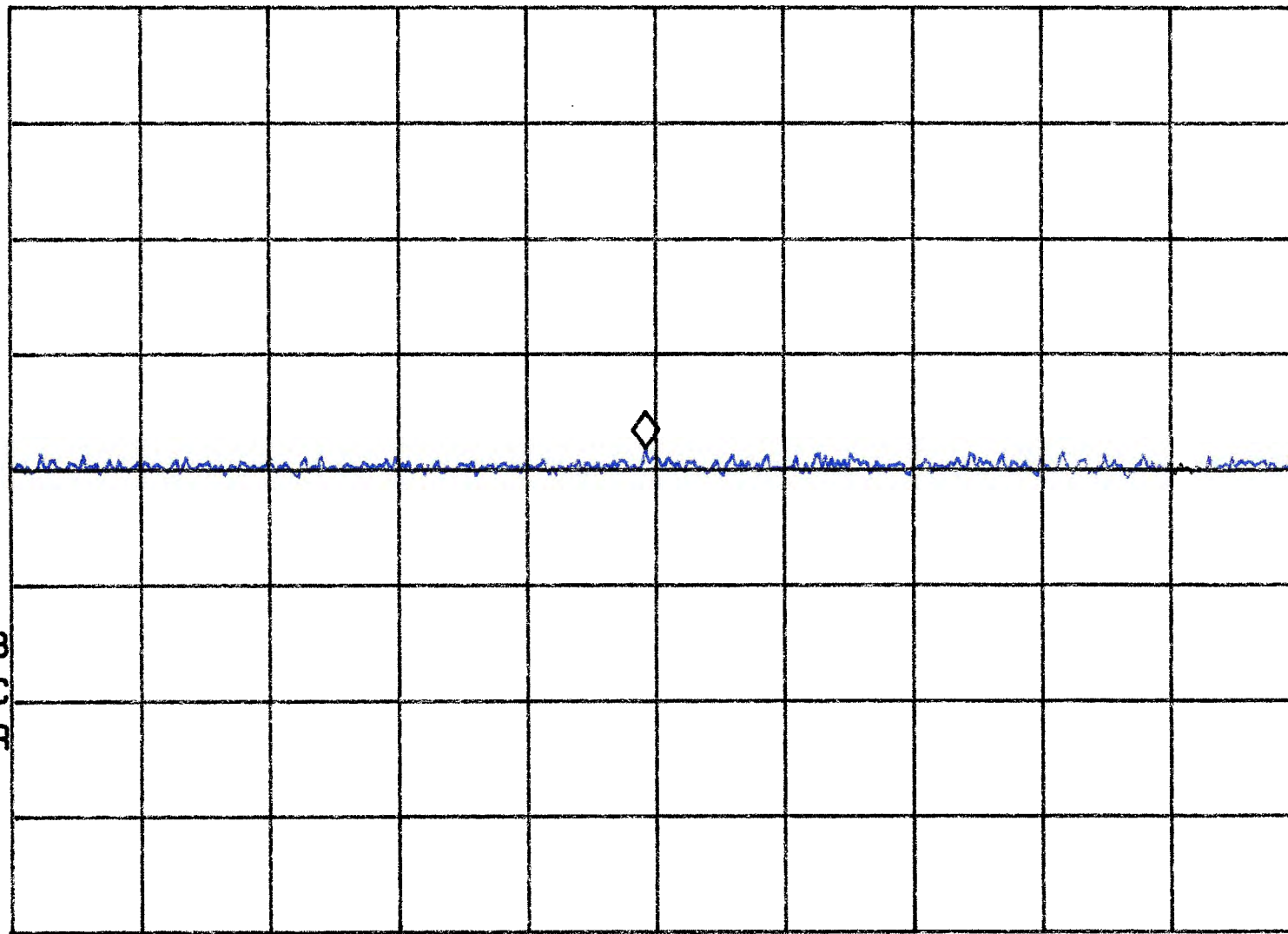
10

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

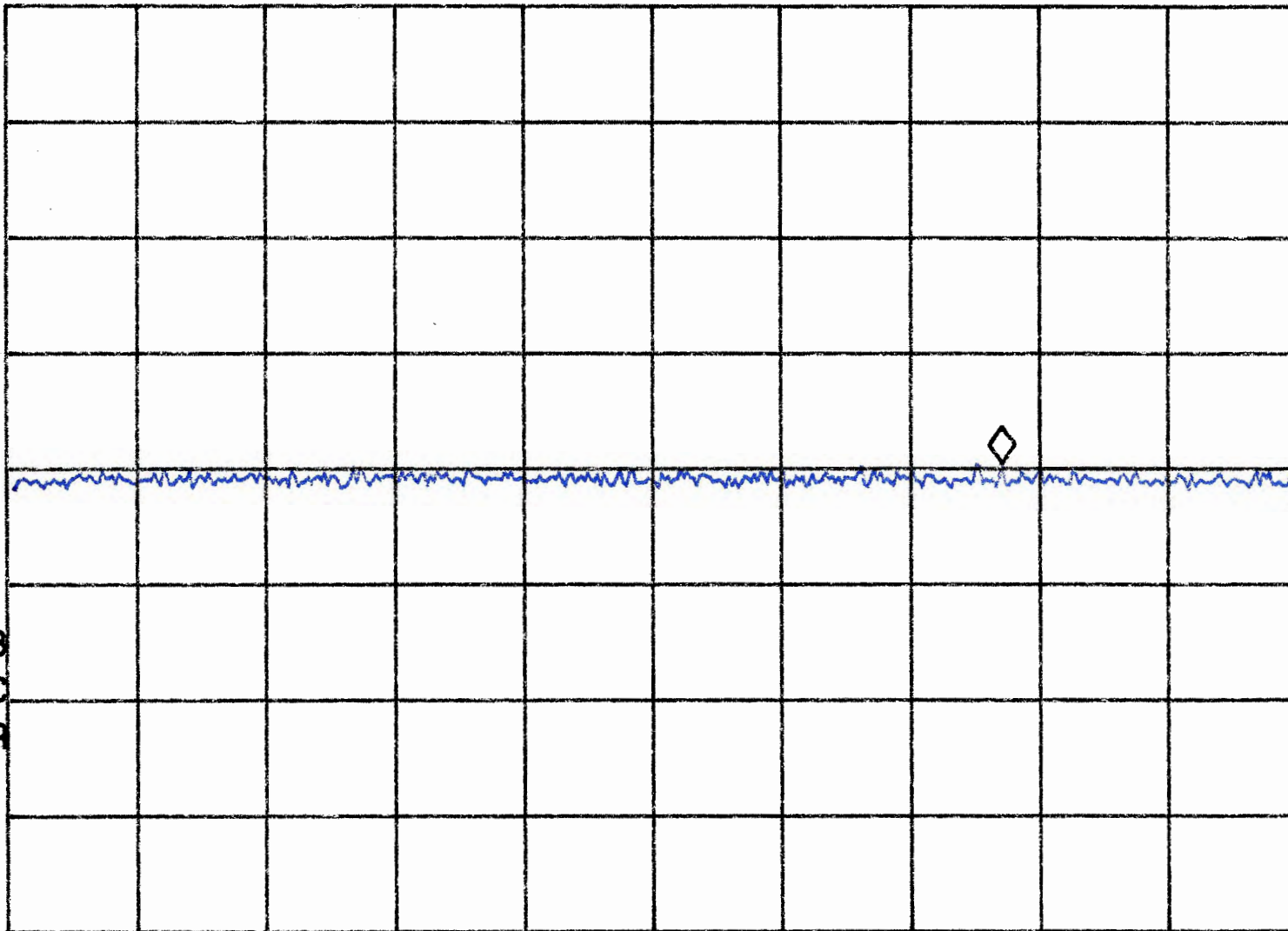
LTX 2.0 Short Azimuth 350°

03:27:05 AUG 14, 2014
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

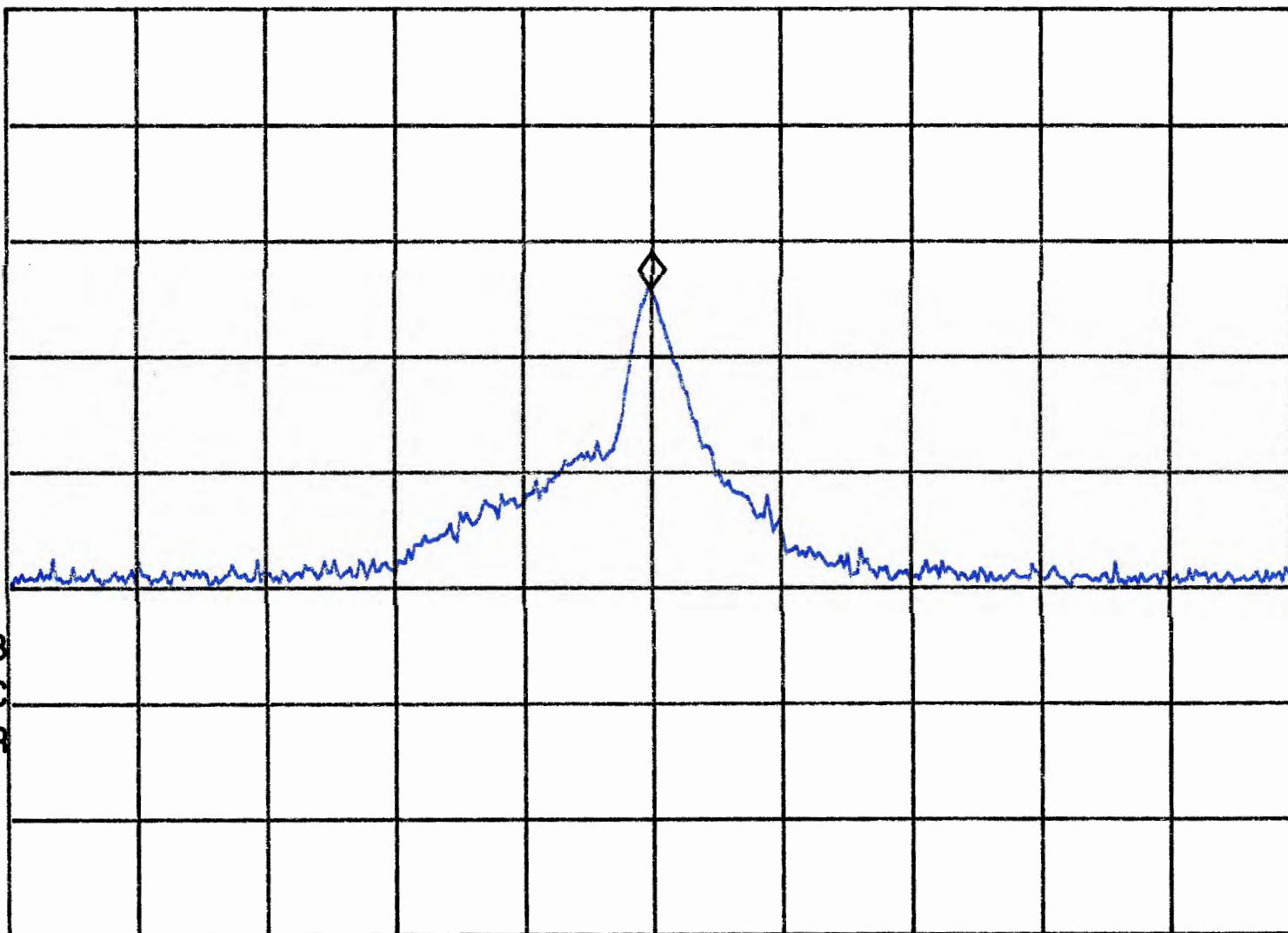
23: 28: 06 AUG 10, 2014
hp GOJO #6491 TFX 3M HORI
REF 70.0 dBμV #AT 0 dB

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

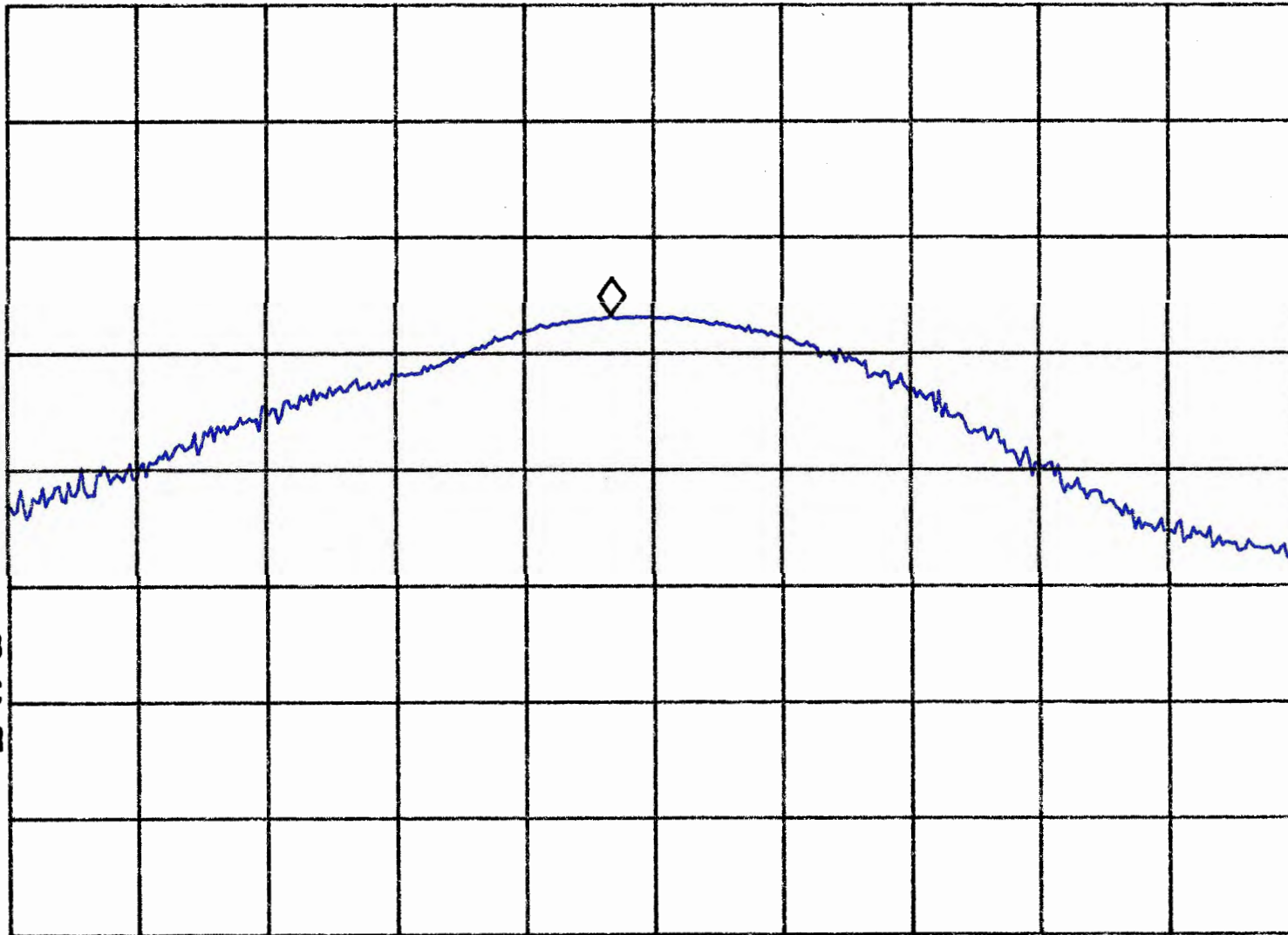
10

dB/

MA SB

SC FC

CORR



CENTER 1.820000 GHz

SPAN 5.000 MHz

#RES BW 1.0 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

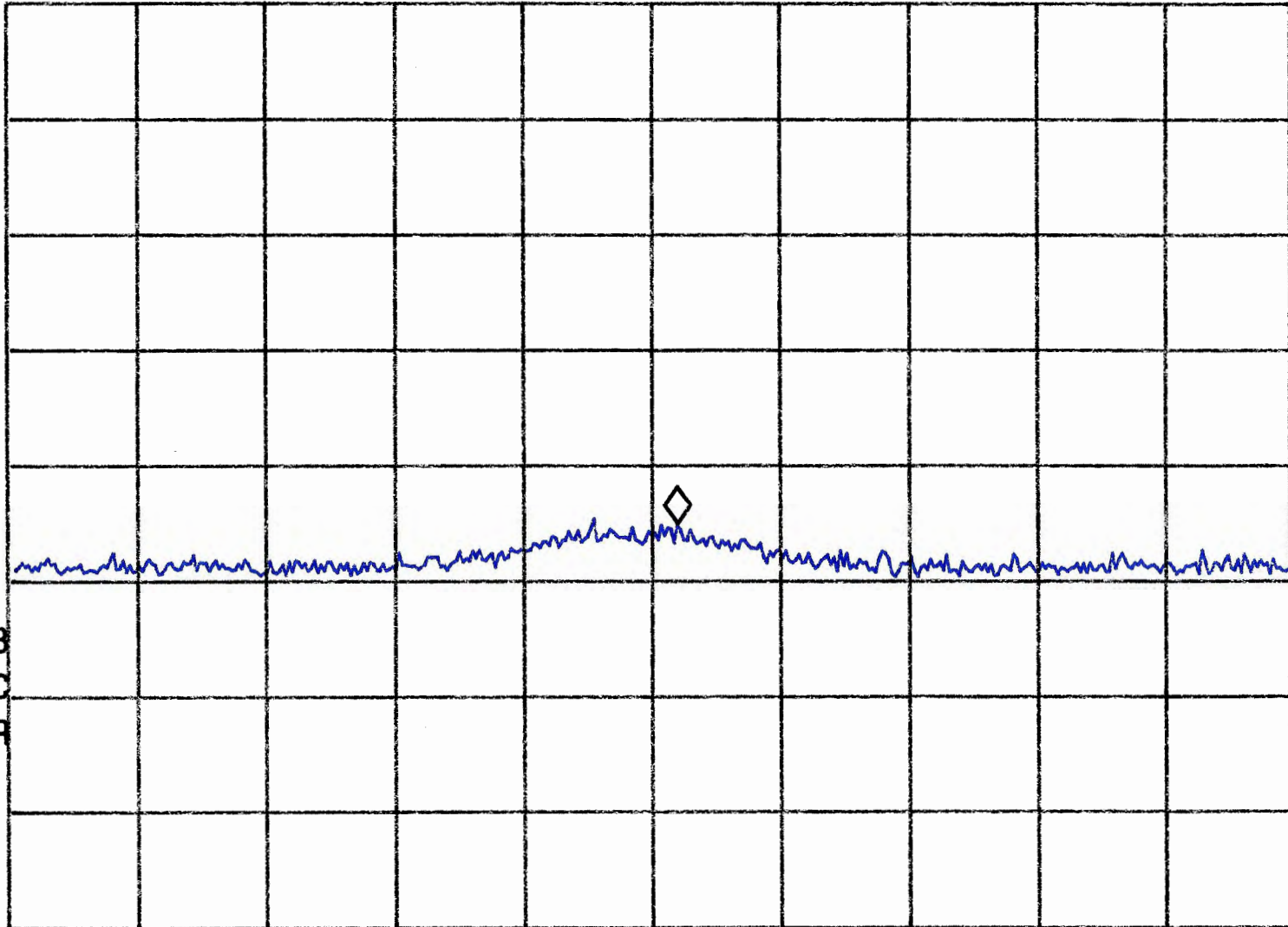
10

dB/

MA SB

SC FC

CORR



CENTER 3.640000 GHz

#RES BW 1.0 MHz

SPAN 5.000 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

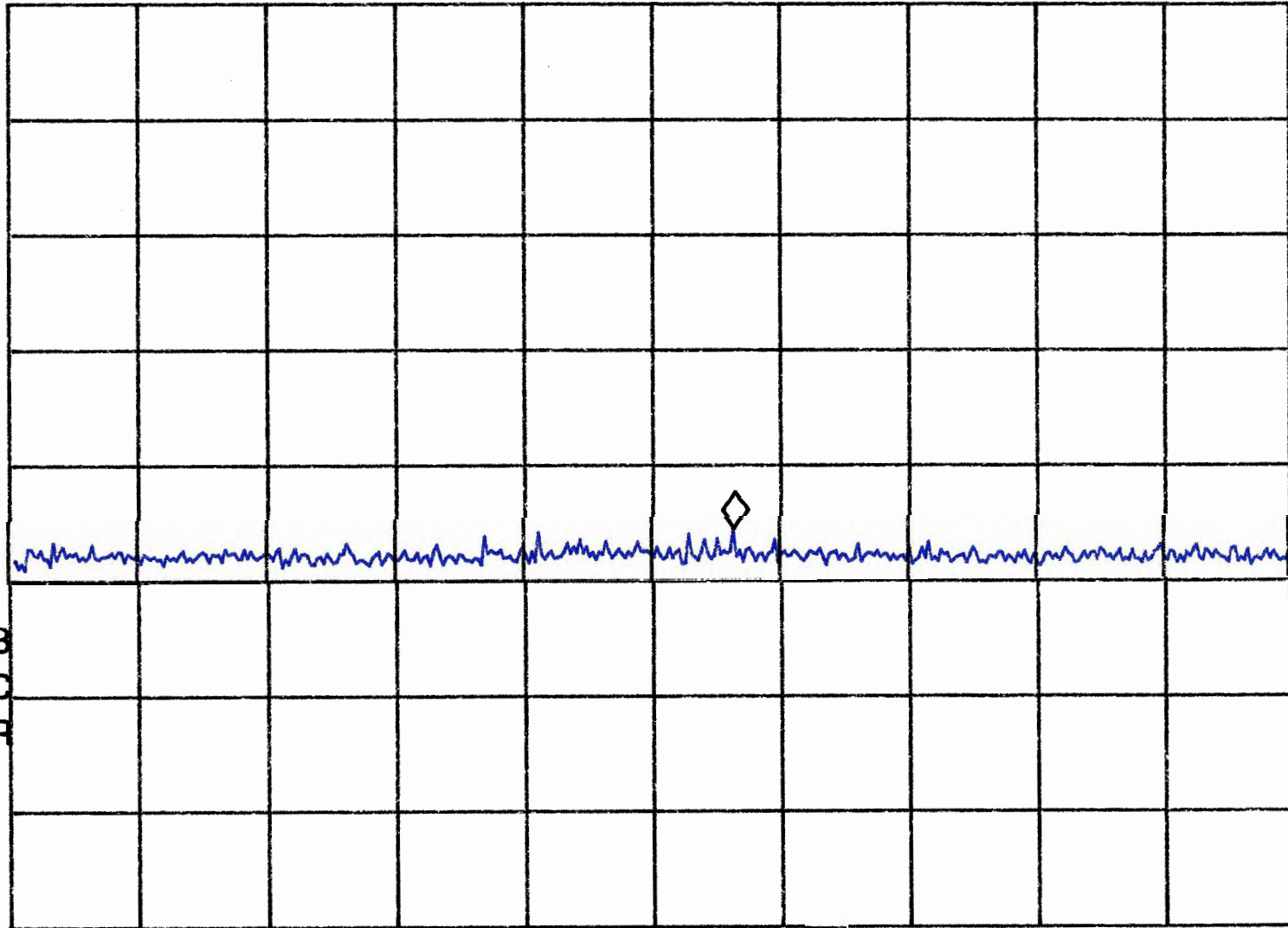
10

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

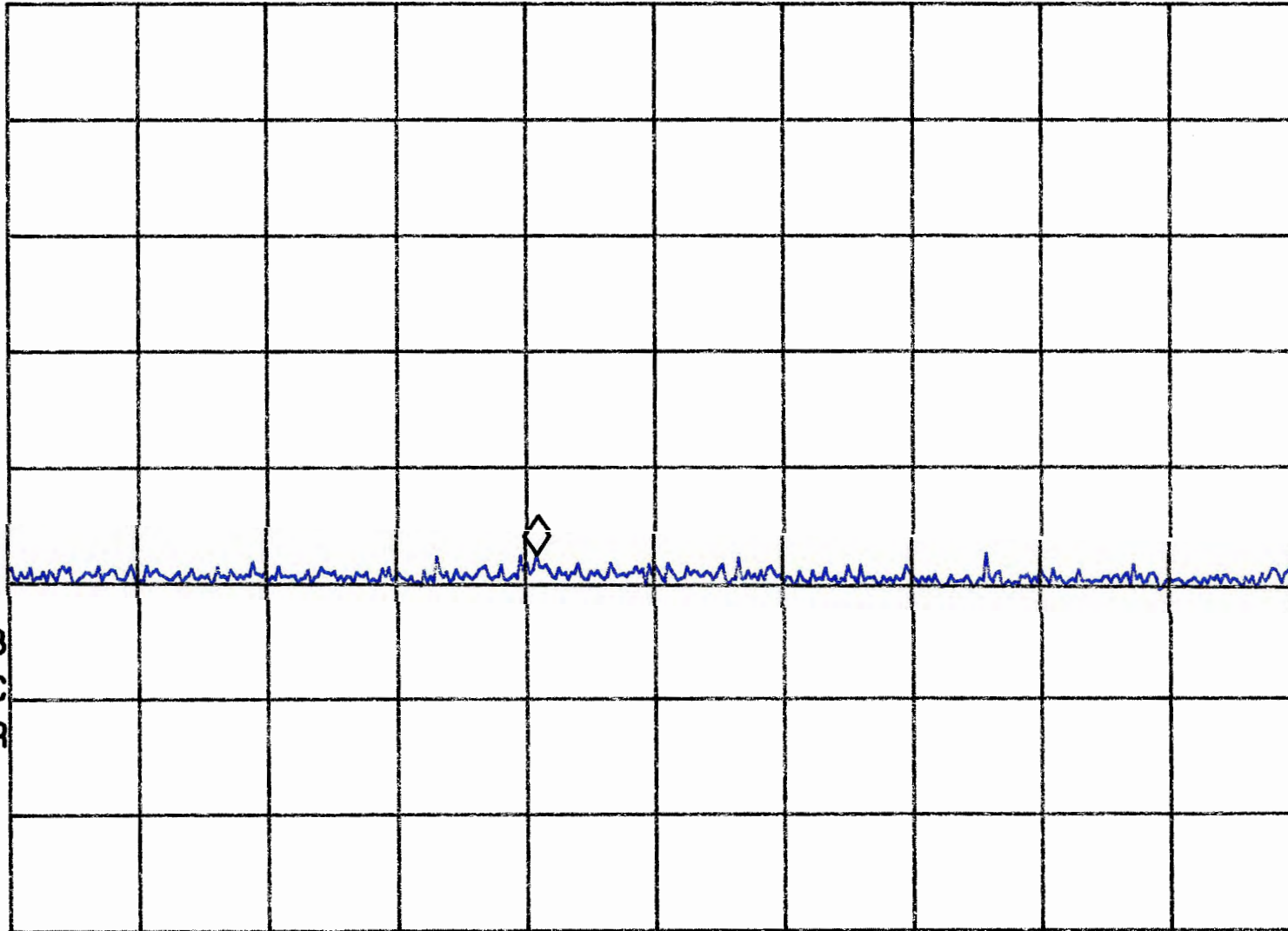
10

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

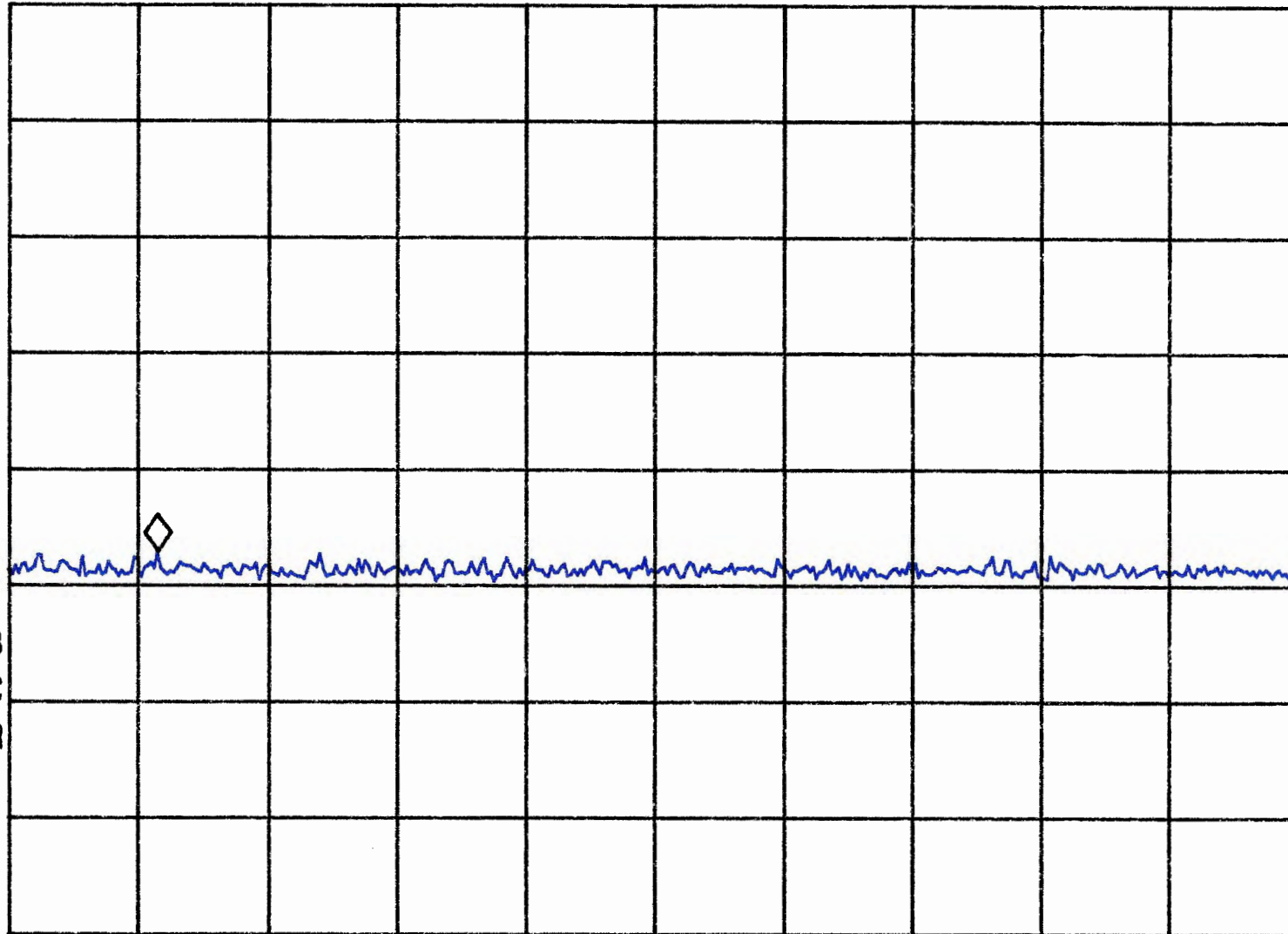
10

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

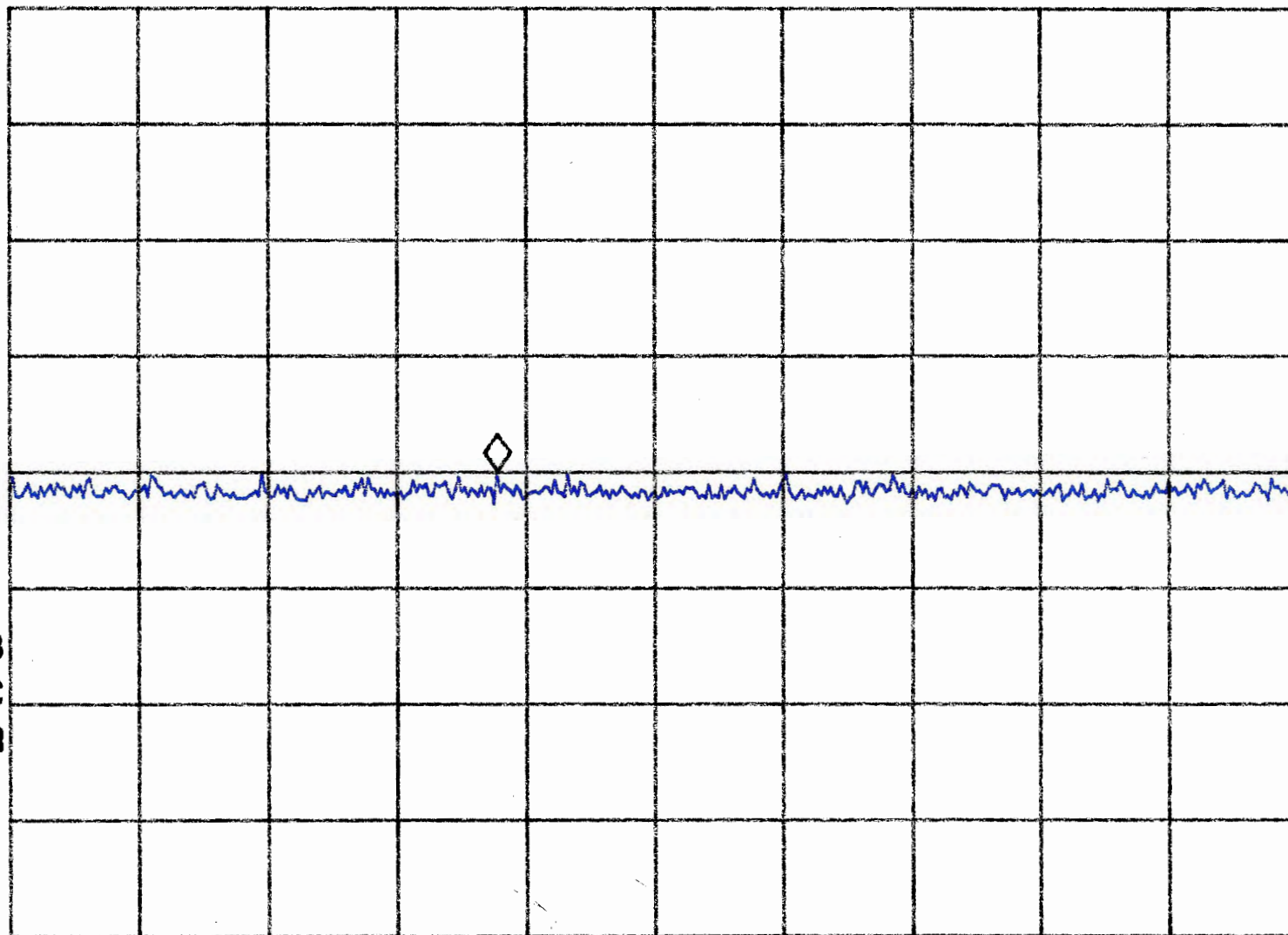
10

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

#RES BW 1.0 MHz

VBW 300 kHz

SPAN 5.000 MHz

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

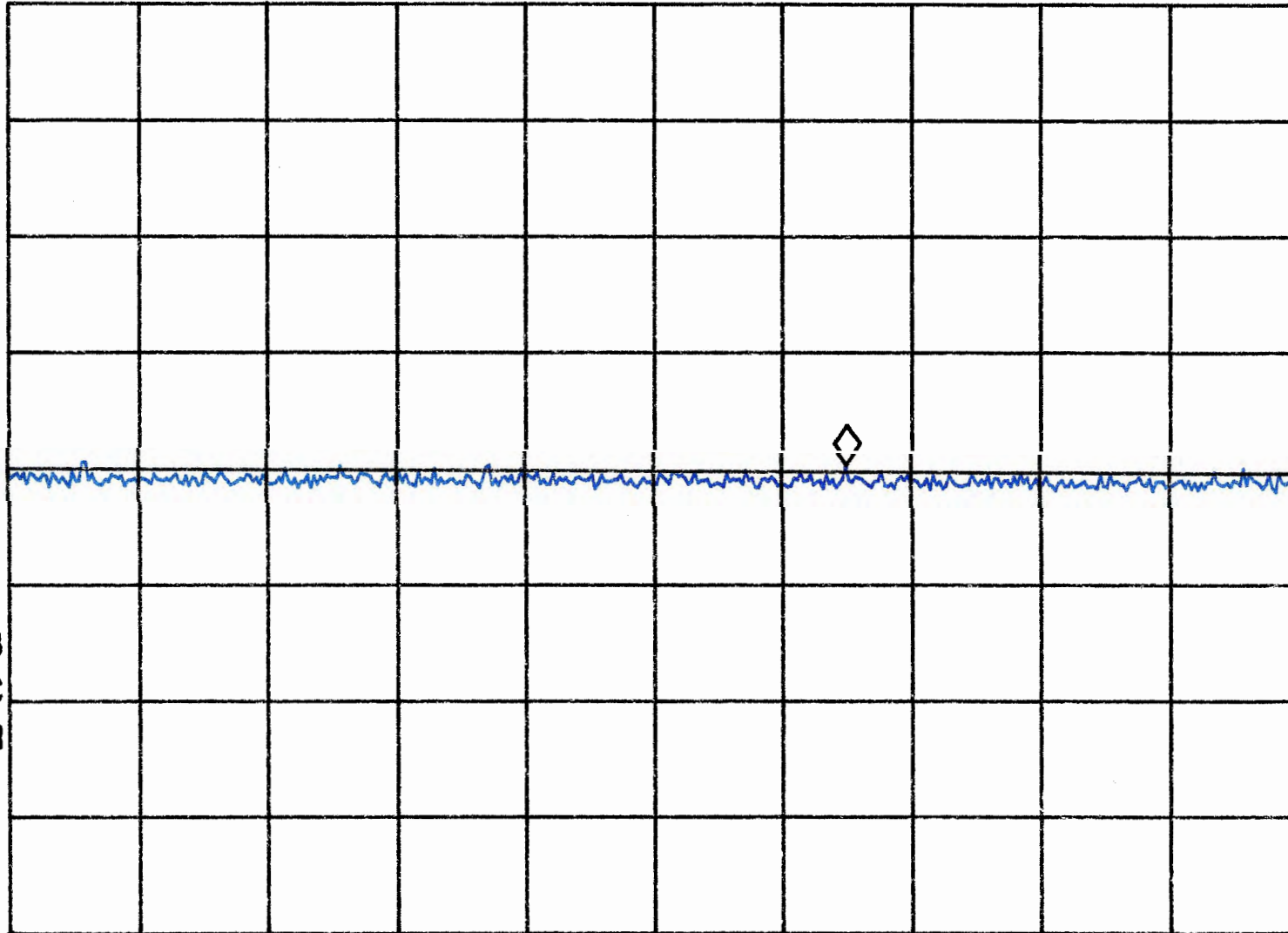
10

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