

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 29, 2014

James Midyette  
**Genie Company**  
One Door Drive  
Mt. Hope, OH 44660

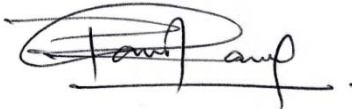
Dear Mr. Midyette:

Enclosed is the test report for the Two Button Remote Control 315/390 MHz garage door opener transmitter model 315390C2 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 Number 306552) and Industry Canada Site# 3034a-1.

We have completed our testing of Emissions to the FCC per 47 CFR Part 15 Class B and Part 15.231 Class C for intentional radiators and IC RSS 210 for Industry Canada Radio Standards Specification.

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,



Prasanna Gautam  
Technical Associate

<i><b>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</b></i>	
<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

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

**Genie Company**

Two Button Remote Control 315390C2

Project Number:

6501-1

## ***Test Information***

<u>Laboratory</u>	<u>Manufacturer</u>
<b>Diversified TEST Technologies, Inc.</b>	<b>Genie Company</b>
4675 Burr Drive	One Door Drive
Liverpool, NY 13088	Mt. Hope, OH 44660

Report Issue Date: October 29, 2014

Report Number: 6501-1-102914- 15.231 (Edition 1)

Project Number: 6501-1

Date Received: August 4, 2014

Date Tested: September 10, 2014

Product Two Button Remote Control 315/390 MHz

Model: 315390C2

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

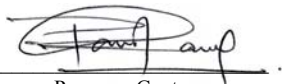
The testing performed by Diversified TEST Technologies, Inc. has shown that the product referenced above complies with the electromagnetic compatibility requirements according to the FCC per 47 CFR Part 15.231. The results in this test report apply only to the Two Button Remote Control 315/390 MHz, Model: 315390C2.

It is the responsibility of the manufacturer to ensure that the product identification and labeling are in compliance with the applicable standards requirements. The manufacturer is also 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 in the Test Regulations section of this report.**

Compiled by:

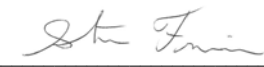
Signature:

  
Prasanna Gautam  
Technical Associate

Date: October 21, 2014

Reviewed by:

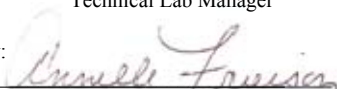
Signature:

  
Steve Frierson  
Technical Lab Manager

Date: October 21, 2014

Authorized by:

Signature:

  
Anneli Frierson  
Vice-President

Date: October 21, 2014

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

**Genie Company**

Two Button Remote Control 315390C2

Project Number:

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## ***Test Regulations***

**The tests were performed according to the following standards:**

<input checked="" type="checkbox"/> FCC Part 15.231	<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class C
<input checked="" type="checkbox"/> FCC Part 15	<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class B

☒ Certification

☐ Verification

## **Summary of Test Data**

<b>Name of Test</b>	<b>Paragraph Number</b>	<b>Results</b>
Transmission Requirements	15.231 (a)	Complies
Radiated Emissions	15.231 (b)	Complies
Occupied Bandwidth	15.231 (c)	Complies
Frequency Tolerance	15.231 (d)	N/A
Alternate Field Strength Requirements	15.231 (e)	N/A
Power line Conducted Emissions	15.207	N/A

Note:

- 1.) The Device does not operate between 40.66 to 40.70 MHz
- 2.) The Device does not operate at a periodic rate
- 3.) The Device is battery powered

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<b><i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i></b>	
<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

## ***Equipment under Test (EUT) Testing Operation Mode***

**The EUT was operated under the following conditions during testing:**

- ☐ Standby
- ☒ Normal Operating Mode
- ☐ Practice Operation

### **Description / Configuration of the EUT:**

The Two Button Remote Control is a remote garage door opener transmitter. It operates at 315/390 MHz for the use of opening garage doors. The transmitter utilizes OOK Modulation techniques.

The EUT was powered with a 3 V battery during the collection of data included within this report.

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

ANSI C63.4 (2003) / FCC Part 15.231

### **Modifications:**

None

### **Technical Contact:**

James Midyette  
Genie Company  
One Door Drive  
Mt. Hope, OH 44660

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

**Genie Company**

Two Button Remote Control 315390C2

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## ***Test Setup Photographs***

### ***1.1 Radiated Emissions / Occupied Bandwidth***



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**Genie Company**

Two Button Remote Control 315390C2

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***1.2. Radiated Emissions above 1 GHz***



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<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

## ***Emissions Testing Conditions***

### ***Radiated Emissions***

The Radiated Emissions measurements, in the frequency range of 1 MHz – 6000 MHz, 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:

- ☒ 3 meters  
☐ 10 meters  
☐ 30 meters

Measurements above 1 GHz were made at a test distance of 1 Meter

DTT uses automated data reductions to determine product compliance to Radiated Emissions regulations. The product's signal data is compared to a current ambient scan. The frequencies that are of significant amplitude are sorted and are brought out to be further analyzed and maximized.

Test equipment used:

<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>	<b>Serial #</b>	<b>Due Date</b>
Hewlett Packard	8596E	Spectrum Analyzer	3235A00144	5/16/15
Agilent	E4405B	EMC Analyzer	US40520846	10/3/14
Hewlett Packard	7550A	Plotter	2407A00476	N/A
Electro-Metrics	BIA-25	Biconical Antenna, 20-220 MHz	001	10-30-14
Electro-Metrics	LPA-25	Log Periodic Antenna 200-1000 MHz	1242	7/8/15
Electro-Metric	RGA-60	Horn Antenna	2981	12/9/14
		Co-ax Cable, 100-foot RG 8/U, 20-foot RG 223/U		
		10-meter open field test range, grounded with 1/4" x 1/4" hardware cloth		
		AC supply cord, 100-foot, grounded		
		100-foot signal cable for remote testing,		
		Wooden turn table, 0.8 meters high		



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<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

## ***Transmission Requirements***

### ***Minimum Standard:***

15.231 (a): Continuous transmissions such as voice, video, or data transmissions are not permitted.

15.231 (a) (1): A Manually operated transmitter shall employ a switch that will automatically deactivate within not more than 5 seconds after being released.

15.231 (a) (2): A transmitter activated automatically shall cease transmission within 5 seconds of activation.

15.231 (a) (3): Periodic Transmission at regular predetermined intervals are not permitted. However, polling or supervisory transmissions to determine system integrity of transmitters used in security or safety applications are allowed if the periodic rate of transmission does not exceed one transmission of not more than one second duration per hour for each transmitter.

15.231 (a) (4): Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life when activated to signal an alarm, may operate during the pendency of the alarm.

### ***Test Results: Complies***

**Test Data:** Compliance was determined by verification of technical specifications and functional tests on the equipment.

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<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

## ***Rationale for Compliance with Transmission Requirements***

15.231 (a) (1)	<input checked="" type="checkbox"/> Manual Activation	Tx deactivation time:
15.231 (a) (2)	<input type="checkbox"/> Automatic Activation	
15.231 (a) (3)	<input type="checkbox"/> Regular, predetermined transmissions <input type="checkbox"/> Polling or supervisory transmissions	Tx rate and duration
15.231 (a) (4)	<input type="checkbox"/> Alarm device operating during the pendency of alarm condition <input checked="" type="checkbox"/> Non-Alarm Device	

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<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

## ***Deactivation Time***

**Test Data: Deactivation Time 315/390 MHz**

**Test Results: Complies, see attached data**

23: 58: 22 OCT 22, 2014

GENIE#6501 315390C2 DEACTIVATION TIME MKR 1.3850 sec

REF 80.0 dBμV

#AT 0 dB

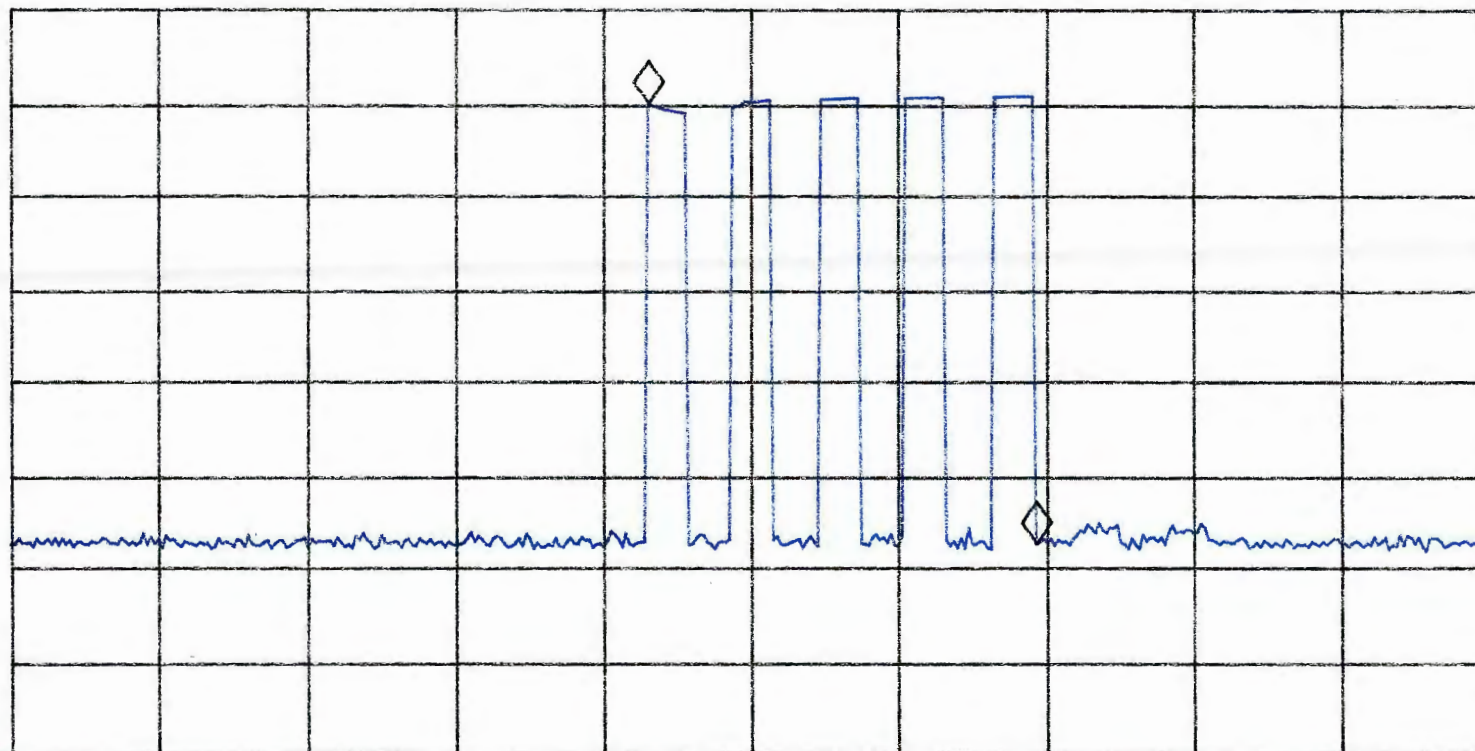
22.64 dBμV

PEAK

LOG

10

dB/



Marker	Trace	Type
1:	(A)	Time
2:	(A)	Time
3:		Inactive
4:		Inactive

Freq / Time	Amplitude
860.00 ms	69.98 dBuV
1.3850 S	22.64 dBuV

CENTER 315.000 MHz

#RES BW 1.0 MHz

#VBW 100 kHz

SPAN 0 Hz

#SWP 2.00 sec

00:05:00 OCT 23, 2014

GENIE#6501 315390C2 DEACTIVATION TIME MKR 1.3500 sec

REF 80.0 dB $\mu$ V

#AT 0 dB

23.31 dB $\mu$ V

PEAK

LOG

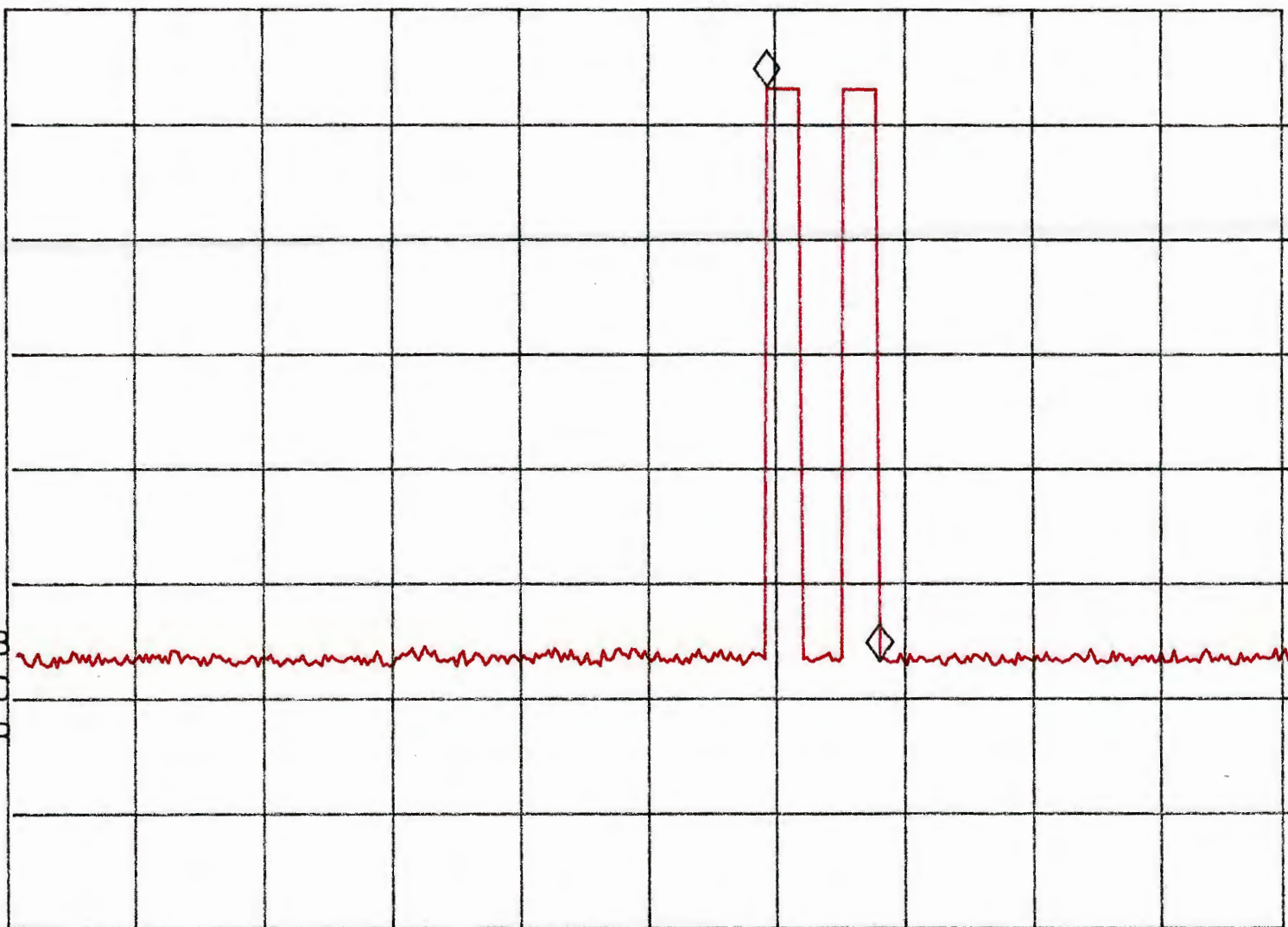
10

dB/

SA VB

SC FC

CORR



CENTER 390.000 MHz

SPAN 0 Hz

#RES BW 1.0 MHz

#VBW 100 kHz

#SWP 2.00 sec

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<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

## ***Radiated Emissions 15.231 (b)***

### **Minimum Standard:**

<b>Fundamental frequency (MHz)</b>	<b>Field strength of fundamental (microvolts/meter)</b>	<b>Field strength of spurious emissions (microvolts/meter)</b>
40.66-40.70	2,250	225
70-130	1,250	125
130-174	<sup>1</sup> 1,250 to 3,750	<sup>1</sup> 125 to 375
174-260	3,750	375
260-470	<sup>1</sup> 3,750 to 12,500	<sup>1</sup> 375 to 1,250
Above 470	12,500	1,250

Any emissions that fall within the restricted bands of 15.205 shall not exceed the following limits:

<b>Frequency (MHz)</b>	<b>Field Strength (μV/m @ 3m)</b>	<b>Field Strength (dB @ 3m)</b>
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

## **Test Result: Complies, see table on next page.**

Above 1 GHz a spectrum analyzer is used to measure emission levels. The spectrum analyzer resolution bandwidth was set to 1 MHz and video bandwidth was set to 1 MHz.

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

**Genie Company**

Two Button Remote Control 315390C2

Project Number:  
6501-1

## Test Data: Radiated Emissions

Freq. (MHz)	Antenna Polarization	Meter Reading (dBuV)				LESS Duty Factor (dB)	ADD Cable Factor (dB)	ADD Antenna Factor (dB)	LESS 1 m to 3 m Distance Factor (dB)	Corrected Reading (dBuV/m)	FCC Spec Limit (dBuV/m)	Margin (dB)	Results	Comments
		X	Y	Z	Max									
315	H	53.21	38.48	41.7	53.2	-13.3	7.2	15.1	0.0	62.2	75.6	-13.4	Pass	
	V	35.16	48.66	48.7	48.7	-13.3	7.2	15.1	0.0	57.7	75.6	-17.9	Pass	
630	H	22.46	21.78	21.3	22.5	-13.3	12.4	19.7	0.0	41.3	55.6	-14.3	Pass	
	V	20.86	23.16	21.5	23.2	-13.3	12.4	19.7	0.0	42.0	55.6	-13.6	Pass	
945	H	21.28	21.77	21.4	21.8	-13.3	17.6	23.5	0.0	49.6	55.6	-6.0	Pass	Noise Floor
	V	21.87	21.87	21.8	21.9	-13.3	17.6	23.5	0.0	49.7	55.6	-5.9	Pass	Noise Floor
1260	H	30.71	29.68	30.2	30.7	-13.3	0.3	25.0	-9.5	33.2	55.6	-22.4	Pass	
	V	31.2	32.9	34.1	34.1	-13.3	0.3	25.0	-9.5	36.6	55.6	-19.0	Pass	
1575	H	30.63	30.11	30.0	30.6	-13.3	0.5	26.3	-9.5	34.6	54.0	-19.4	Pass	Noise Floor
	V	29.87	31.42	30.8	31.4	-13.3	0.5	26.3	-9.5	35.4	54.0	-18.6	Pass	
1890	H	29.83	31.84	31.7	31.8	-13.3	0.4	28.1	-9.5	37.5	55.6	-18.1	Pass	
	V	31.22	32.48	33.5	33.5	-13.3	0.4	28.1	-9.5	39.1	55.6	-16.5	Pass	
2205	H	30.38	30.35	30.9	30.9	-13.3	0.2	28.9	-9.5	37.2	54.0	-16.8	Pass	
	V	30.41	30.44	31.0	31.0	-13.3	0.2	28.9	-9.5	37.2	54.0	-16.8	Pass	
2520	H	32.11	36.27	34.1	36.3	-13.3	0.3	29.3	-9.5	43.0	55.6	-12.6	Pass	
	V	33.23	32.29	33.5	33.5	-13.3	0.3	29.3	-9.5	40.3	55.6	-15.3	Pass	
2835	H	32.5	39.54	35.3	39.5	-13.3	0.3	30.1	-9.5	47.1	54.0	-6.9	Pass	
	V	34.87	36.2	35.8	36.2	-13.3	0.3	30.1	-9.5	43.8	54.0	-10.2	Pass	
3150	H	30.68	30.7	31.2	31.2	-13.3	0.4	31.0	-9.5	39.8	55.6	-15.8	Pass	Noise Floor
	V	30.68	30.36	30.7	30.7	-13.3	0.4	31.0	-9.5	39.3	55.6	-16.3	Pass	Noise Floor
390	H	61.7	48	53.6	61.7	-13.2	9.5	15.8	0.0	73.8	79.2	-5.4	Pass	
	V	40.2	57.77	57.3	57.8	-13.2	9.5	15.8	0.0	69.8	79.2	-9.4	Pass	
780	H	31.04	23.3	29.3	31.0	-13.2	17.0	21.6	0.0	56.4	59.2	-2.8	Pass	
	V	23.91	28.62	23.6	28.6	-13.2	17.0	21.6	0.0	54.0	59.2	-5.2	Pass	
1170	H	29.4	29.95	29.2	30.0	-13.2	0.3	24.7	-9.5	32.2	54.0	-21.8	Pass	Noise Floor
	V	29.21	31.87	29.6	31.9	-13.2	0.3	24.7	-9.5	34.2	54.0	-19.8	Pass	
1560	H	30.5	30.41	30.1	30.5	-13.2	0.5	26.2	-9.5	34.5	54.0	-19.5	Pass	Noise Floor
	V	30.97	34.31	33.9	34.3	-13.2	0.5	26.2	-9.5	38.3	54.0	-15.7	Pass	
1950	H	45.56	40	37.1	45.6	-13.2	0.5	28.4	-9.5	51.7	59.2	-7.5	Pass	Noise Floor
	V	41.49	36.39	45.2	45.2	-13.2	0.5	28.4	-9.5	51.4	59.2	-7.8	Pass	Noise Floor
2340	H	31.11	32.49	30.5	32.5	-13.2	0.3	29.0	-9.5	39.1	54.0	-14.9	Pass	
	V	32.56	31.05	32.0	32.6	-13.2	0.3	29.0	-9.5	39.1	54.0	-14.9	Pass	
2730	H	36.14	43.7	40.2	43.7	-13.2	0.2	29.8	-9.5	51.0	54.0	-3.0	Pass	
	V	36.47	38.15	37.1	38.2	-13.2	0.2	29.8	-9.5	45.4	54.0	-8.6	Pass	
3120	H	35.39	44.59	40.1	44.6	-13.2	0.4	30.9	-9.5	53.2	59.2	-6.0	Pass	
	V	37.62	37.43	40.0	40.0	-13.2	0.4	30.9	-9.5	48.6	59.2	-10.6	Pass	
3510	H	34.4	39.51	35.6	39.5	-13.2	0.4	32.2	-9.5	49.4	54.0	-4.6	Pass	
	V	32.69	34.06	37.6	37.6	-13.2	0.4	32.2	-9.5	47.5	54.0	-6.5	Pass	
3900	H	31.15	31.93	33.4	33.4	-13.2	0.1	33.0	-9.5	43.8	54.0	-10.2	Pass	
	V	30.04	30.63	31.1	31.1	-13.2	0.1	33.0	-9.5	41.4	54.0	-12.6	Pass	

The EUT was tested on all three axis

The EUT was tested with fresh batteries

The spectrum was searched from 30 MHz to 6 GHz

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Two Button Remote Control 315390C2

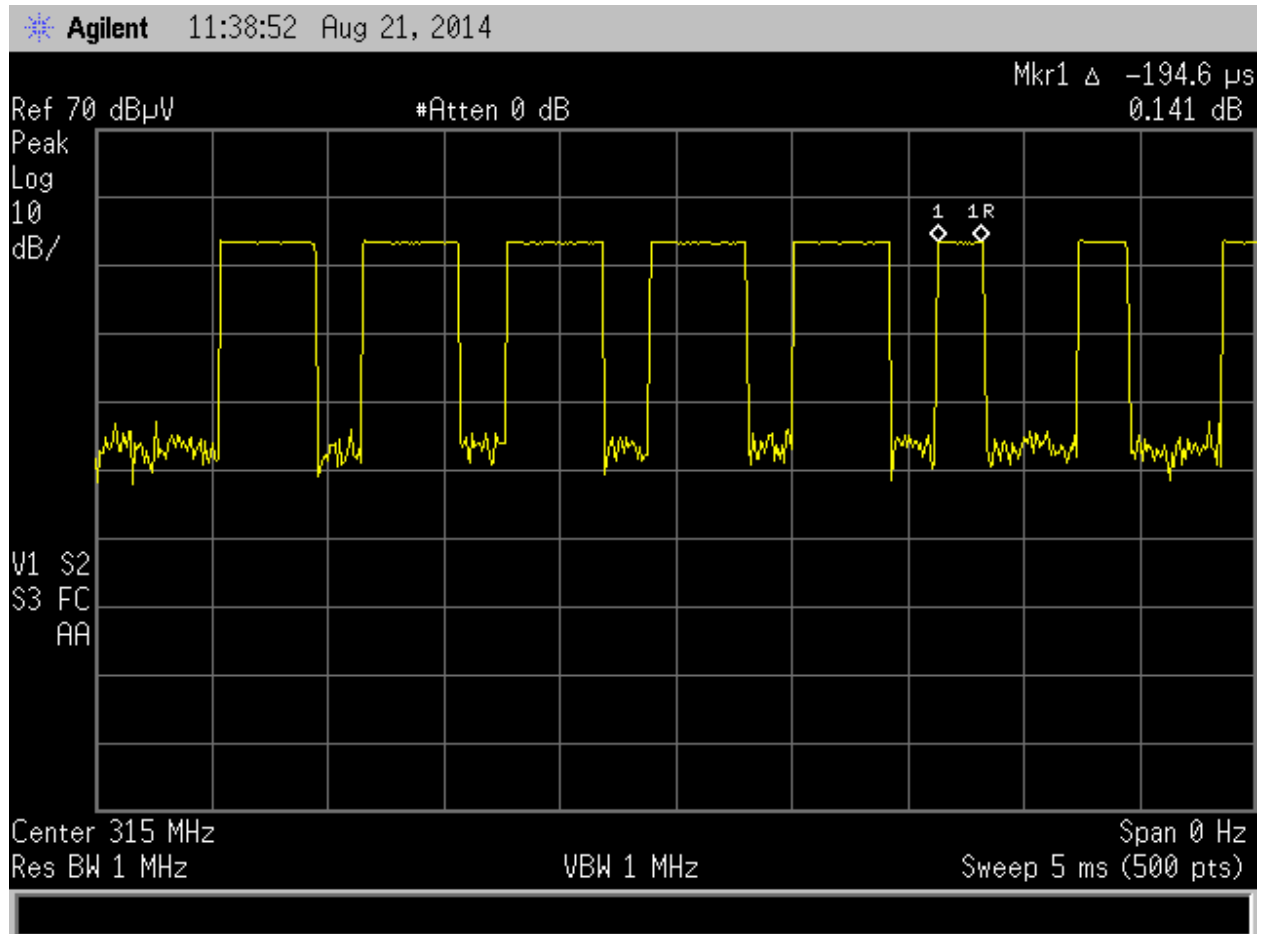
Project Number:

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## ***Duty Cycle Correction***

### ***Narrow Pulses***

**315 MHz**



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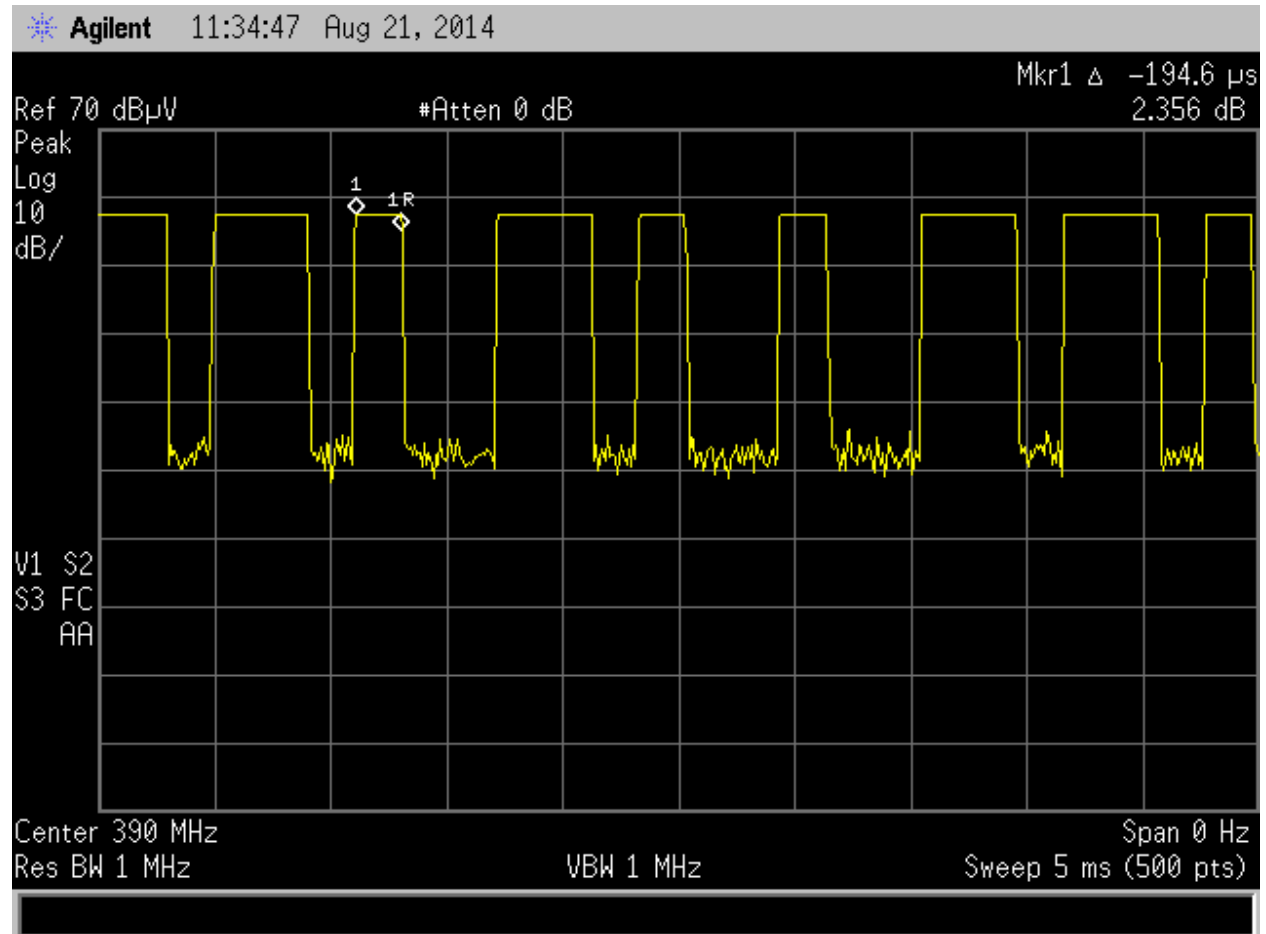
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Two Button Remote Control 315390C2

Project Number:  
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## ***Duty Cycle Correction***

### ***Narrow Pulses***

**390 MHz**



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Two Button Remote Control 315390C2

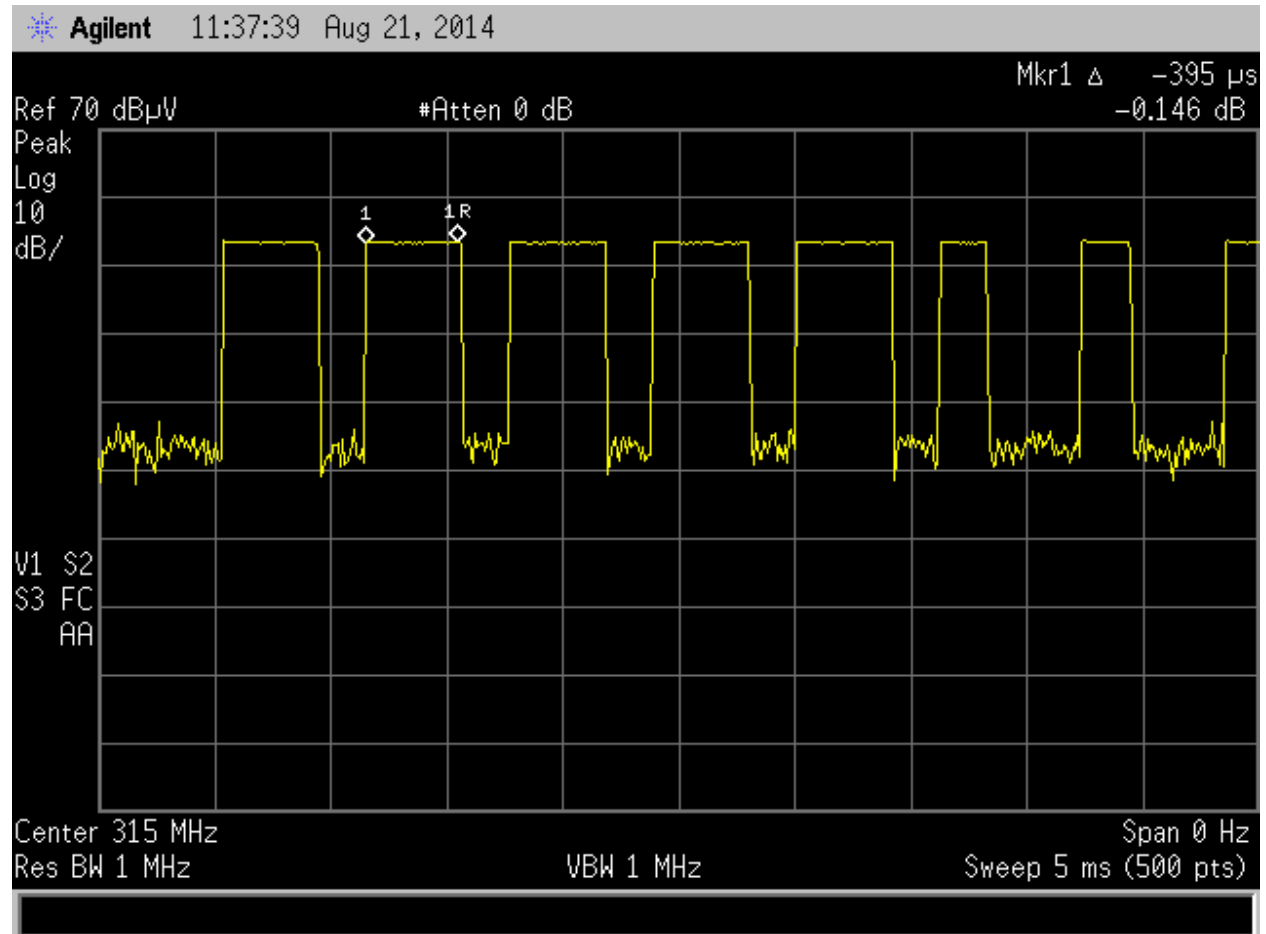
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## ***Duty Cycle Correction***

### ***Wide Pulses***

**315 MHz**



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Two Button Remote Control 315390C2

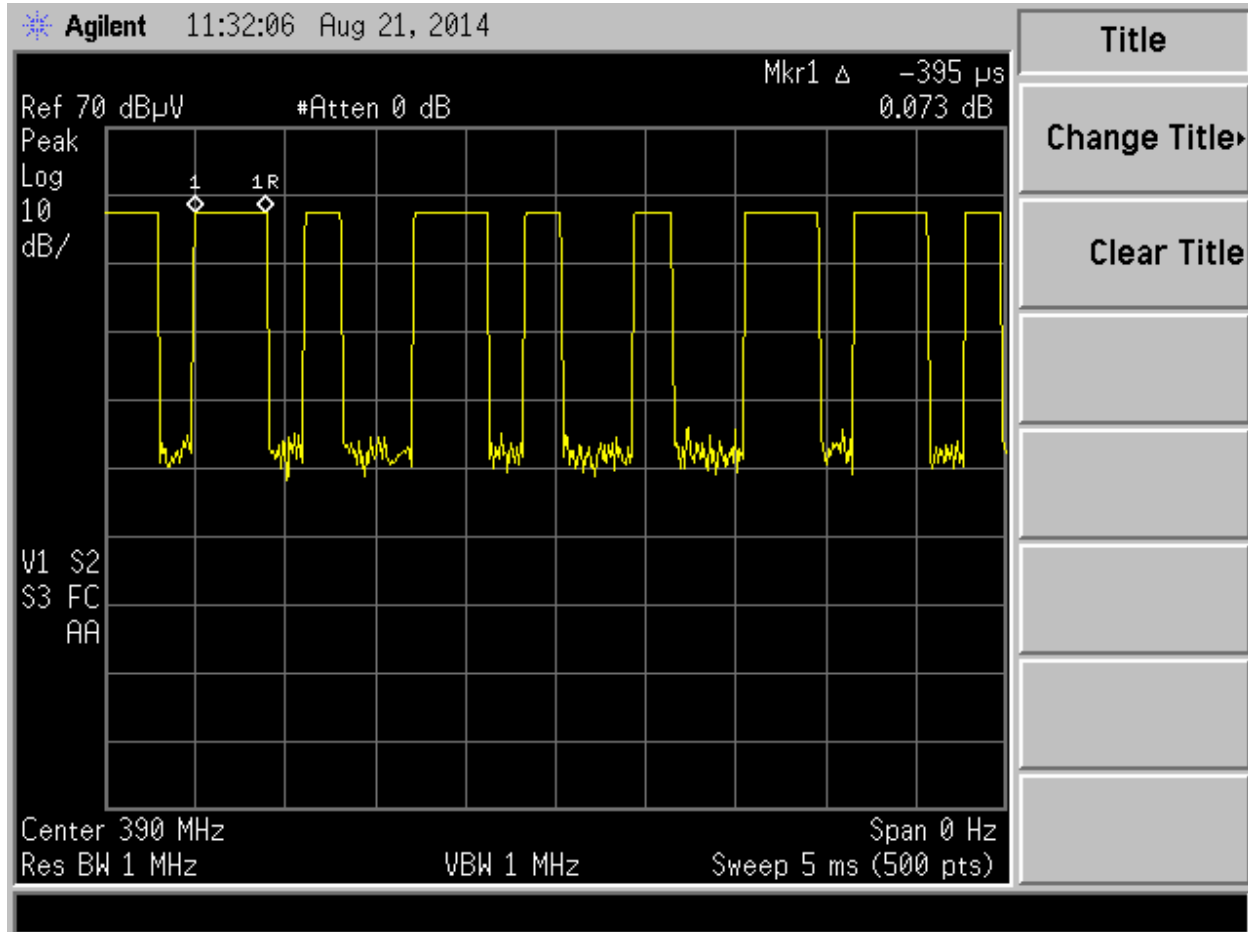
Project Number:

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## ***Duty Cycle Correction***

### ***Wide Pulses***

**390 MHz**



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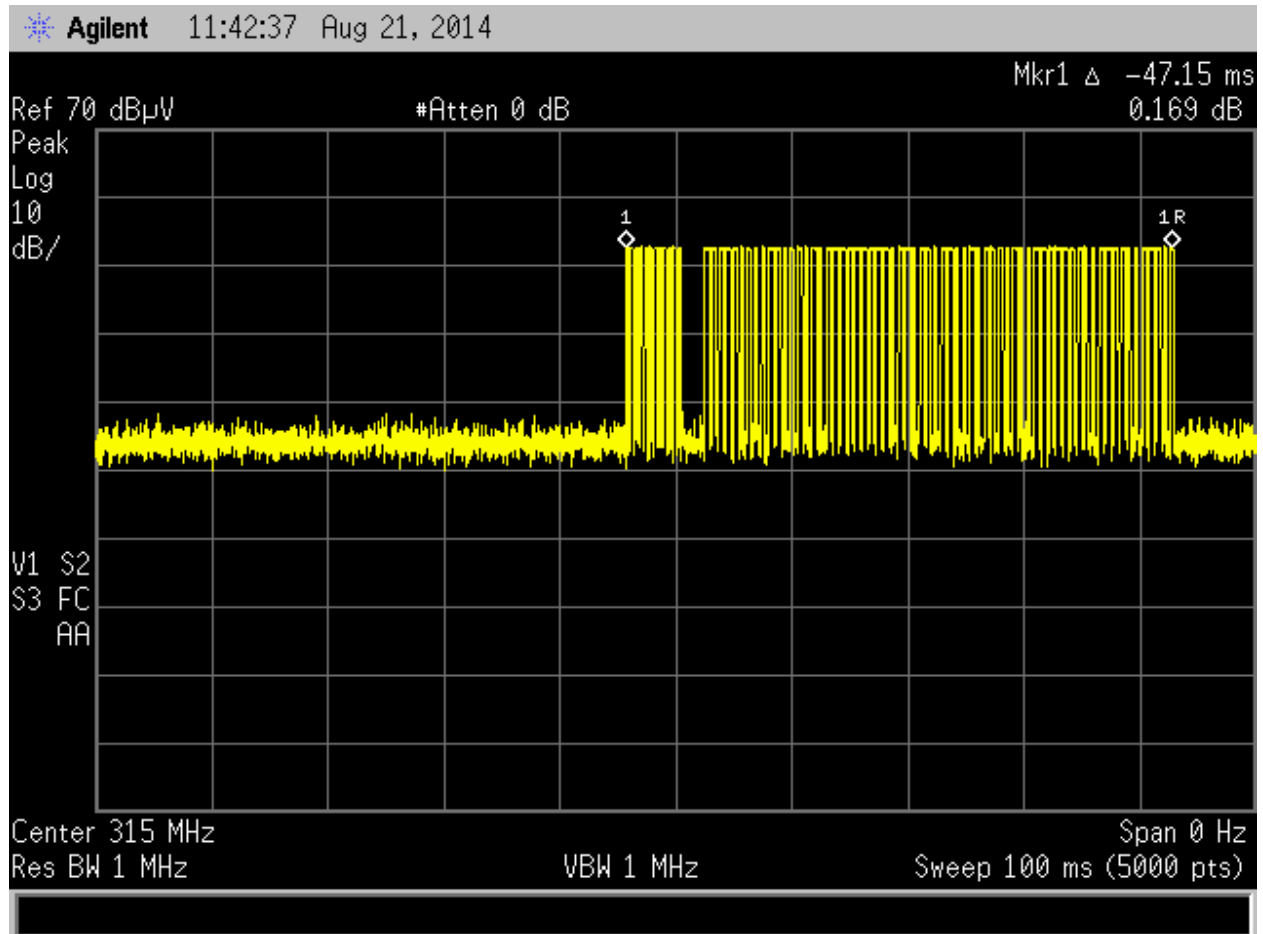
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Two Button Remote Control 315390C2

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## ***Duty Cycle Correction***

***100 ms***

**315 MHz**



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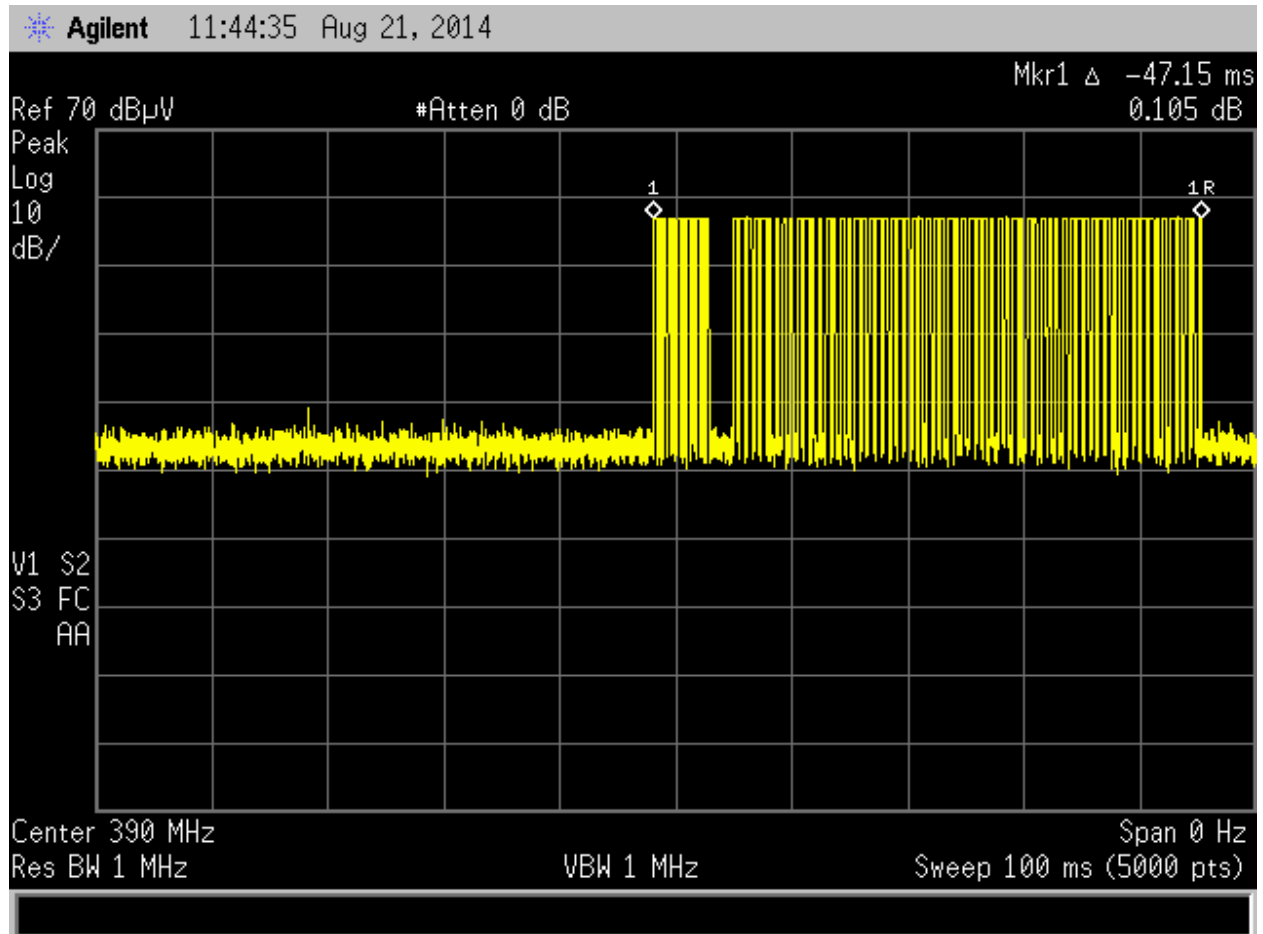
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Two Button Remote Control 315390C2

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## ***Duty Cycle Correction***

***100 ms***

**390 MHz**

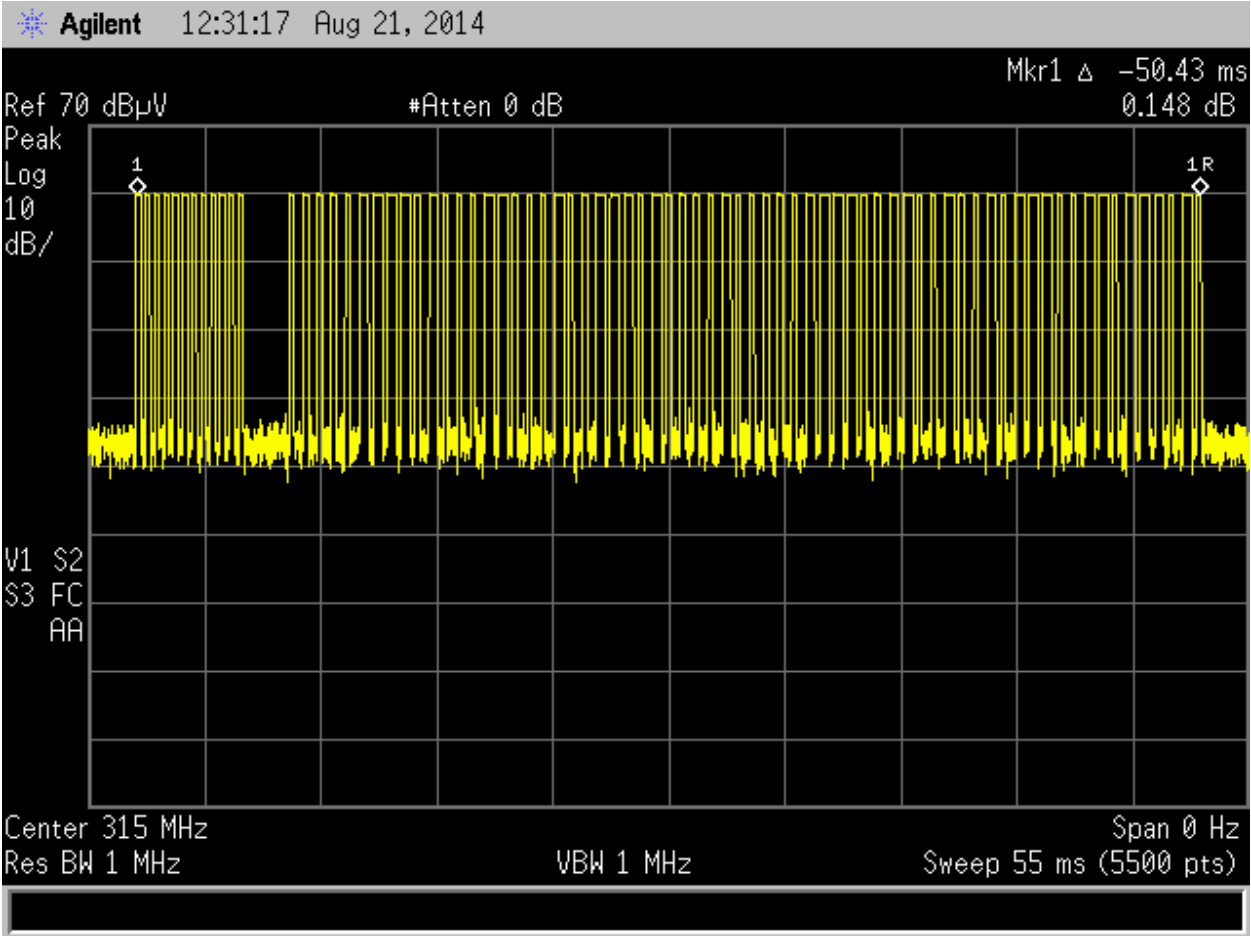


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<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

*Duty Cycle Correction*

*55 ms*

**315 MHz**



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

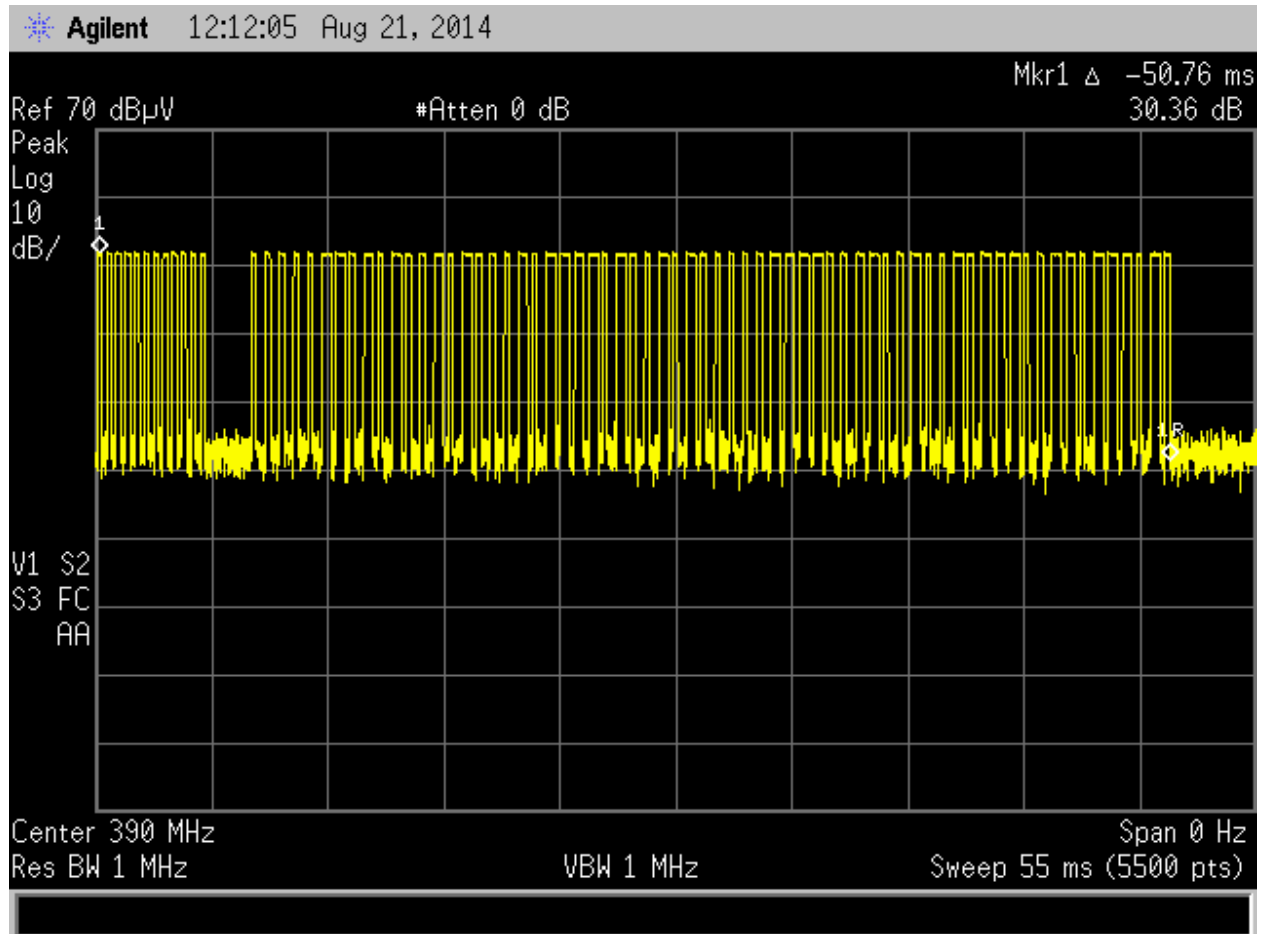
**Genie Company**  
Two Button Remote Control 315390C2

Project Number:  
6501-1

## ***Duty Cycle Correction***

***55 ms***

**390 MHz**



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

**Genie Company**

Two Button Remote Control 315390C2

Project Number:

6501-1

***Duty Cycle Correction***

315 MHz Duty Cycle Correction

100 ms window

30 wide pulses ( $t = 12$  ms)

48 narrow pulses ( $t = 9.6$  ms)

21.6 ms total time on

$20 \cdot \log(22.6/100) = -13.3$  dB

390 MHz Duty Cycle Correction

100 ms window

31 wide pulses ( $t = 12.4$  ms)

47 narrow pulses ( $t = 9.4$  ms)

21.8 ms total time on

$20 \cdot \log(22.6/100) = -13.2$  dB



<b><i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i></b>	
<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

## ***Occupied Bandwidth***

### **Minimum Standard:**

15.231 (c) The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

### ***Test Data - Occupied Bandwidth 315/390 MHz***

**Test Results: Complies, see attached data**

23:38:30 OCT 22, 2014

GENIE#6501 315390C2 OCCUPIED BW

MKR  $\Delta$  50.0 kHz

REF 80.0 dB $\mu$ V

#AT 0 dB

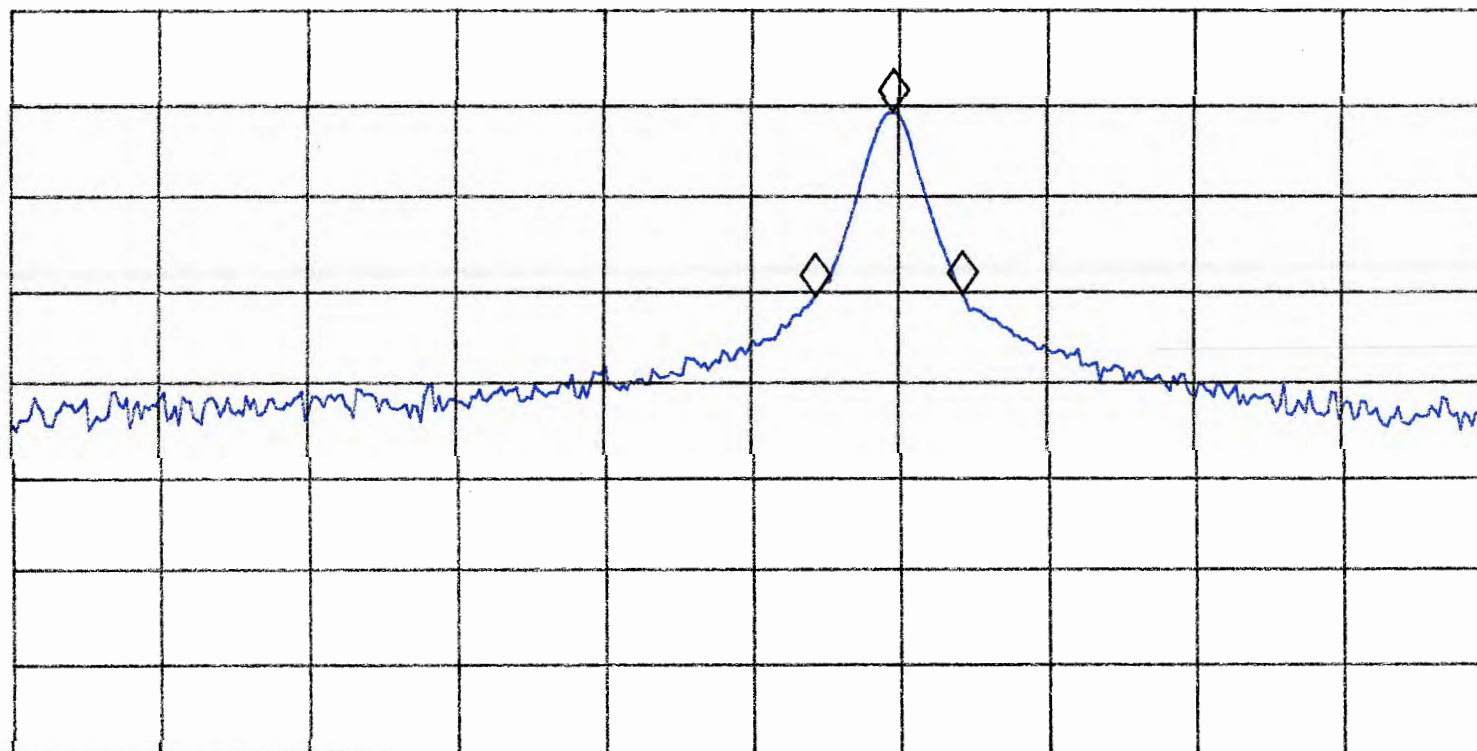
.24 dB

PEAK

LOG

10

dB/



Marker	Trace	Type	Freq / Time	Amplitude
1:	(A)	$\Delta$ Freq	0.0500 MHz	0.24 dB
2:	(A)	$\Delta$ Ref	315.0213 MHz	49.38 dB $\mu$ V
3:	(A)	Freq	315.0475 MHz	69.17 dB $\mu$ V
4:		Inactive		

CENTER 315.0000 MHz

SPAN 500.0 kHz

#RES BW 10 kHz

#VBW 10 kHz

#SWP 30.0 msec

23: 50: 30 OCT 22, 2014

GENIE#6501 315390C2 OCCUPIED BW

MKR 390.0575 MHz

REF 80.0 dBμV #AT 0 dB

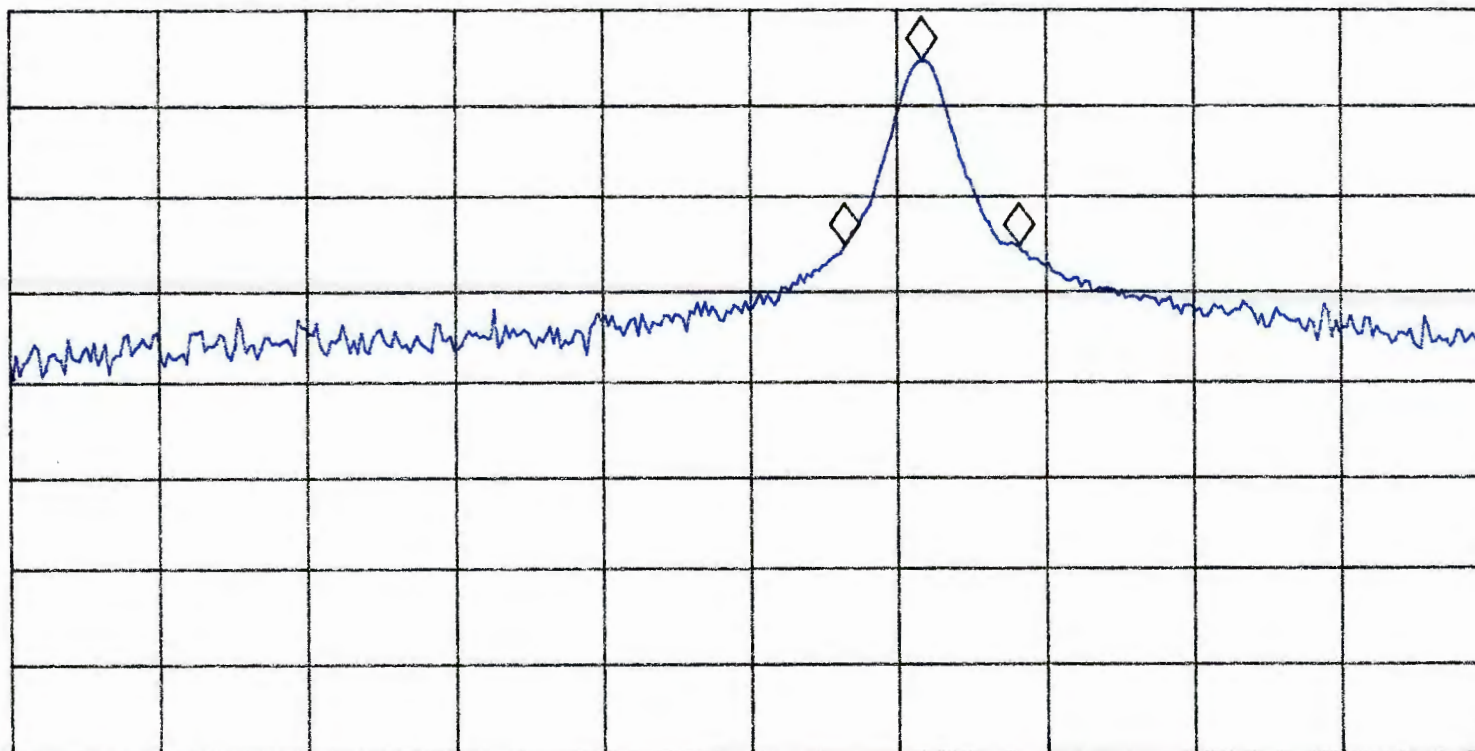
74.70 dBμV

PEAK

LOG

10

dB/



Marker	Trace	Type	Freq / Time	Amplitude
1:	(A)	ΔFreq	0.0587 MHz	-0.02 dB
2:	(A)	Δ Ref	390.0313 MHz	54.70 dBuV
3:	(A)	Freq	390.0575 MHz	74.70 dBuV
4:		Inactive		

CENTER 390.0000 MHz

#RES BW 10 KHz

#VBW 10 KHz

SPAN 500.0 KHz

#SWP 30.0 msec

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

Two Button Remote Control 315390C2

Project Number:

6501-1

***Restricted Bands of Operation******15.205 Restricted bands of operation.***

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

<b>MHz</b>	<b>MHz</b>	<b>MHz</b>	<b>GHz</b>
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
13.36-13.41			

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

**Genie Company**

Two Button Remote Control 315390C2

Project Number:

6501-1

## ***Spurious Emissions***

### **Minimum Requirements:**

#### ***Radiated emission limits 15.109***

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

<b>Frequency of emission (MHz)</b>	<b>Field strength (microvolts/meter)</b>
30-88	100
88-216	150
216-960	200
Above 960	500

**Test Result:** Complies; highest spurious emission level recorded from 30 MHz - 6 GHz is 28.57 dBuV at 3.870 GHz.

15.209 Radiated emission limits; general requirements.

(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

<b>Frequency (MHz)</b>	<b>Field strength (microvolts/meter)</b>	<b>Measurement distance (meters)</b>
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

<b><i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i></b>	
<b>Genie Company</b> Two Button Remote Control 315390C2	Project Number: 6501-1

## ***Radiated Emissions Test Data 15.109***

**Test Result: Complies, see attached data.**

23: 13: 02 SEP 09, 2014 ← 315390C2

GENIE 6493 315390F2, R: ON 3M: ANT: HOR

MKR 151.1 MHz

REF 80.0 dBμV

#AT 0 dB

19.85 dBμV

PEAK

LOG

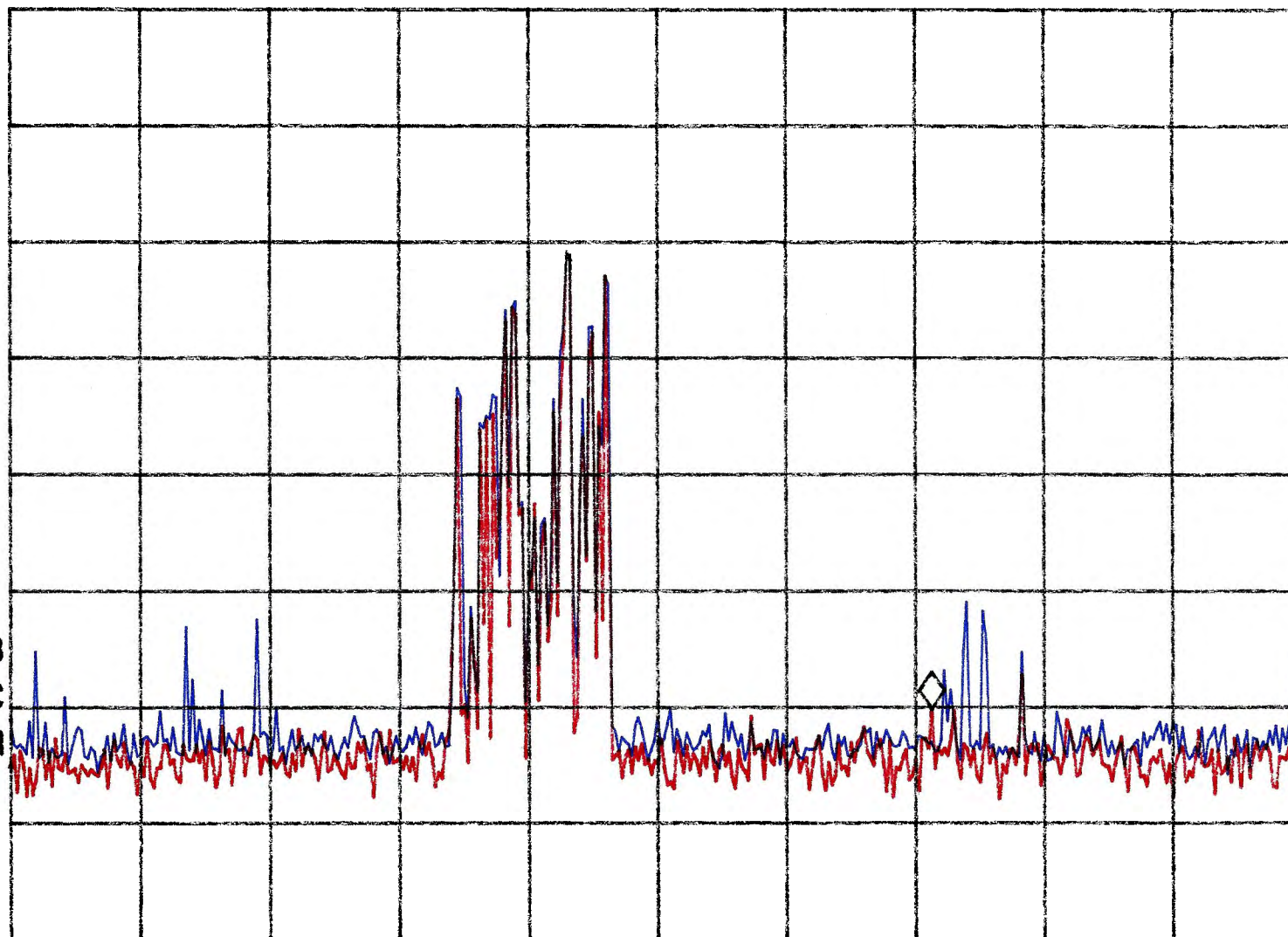
10

dB/

VA VB

SC FC

CORR



START 30.0 MHz

#RES BW 120 kHz

VBW 300 kHz

STOP 200.0 MHz

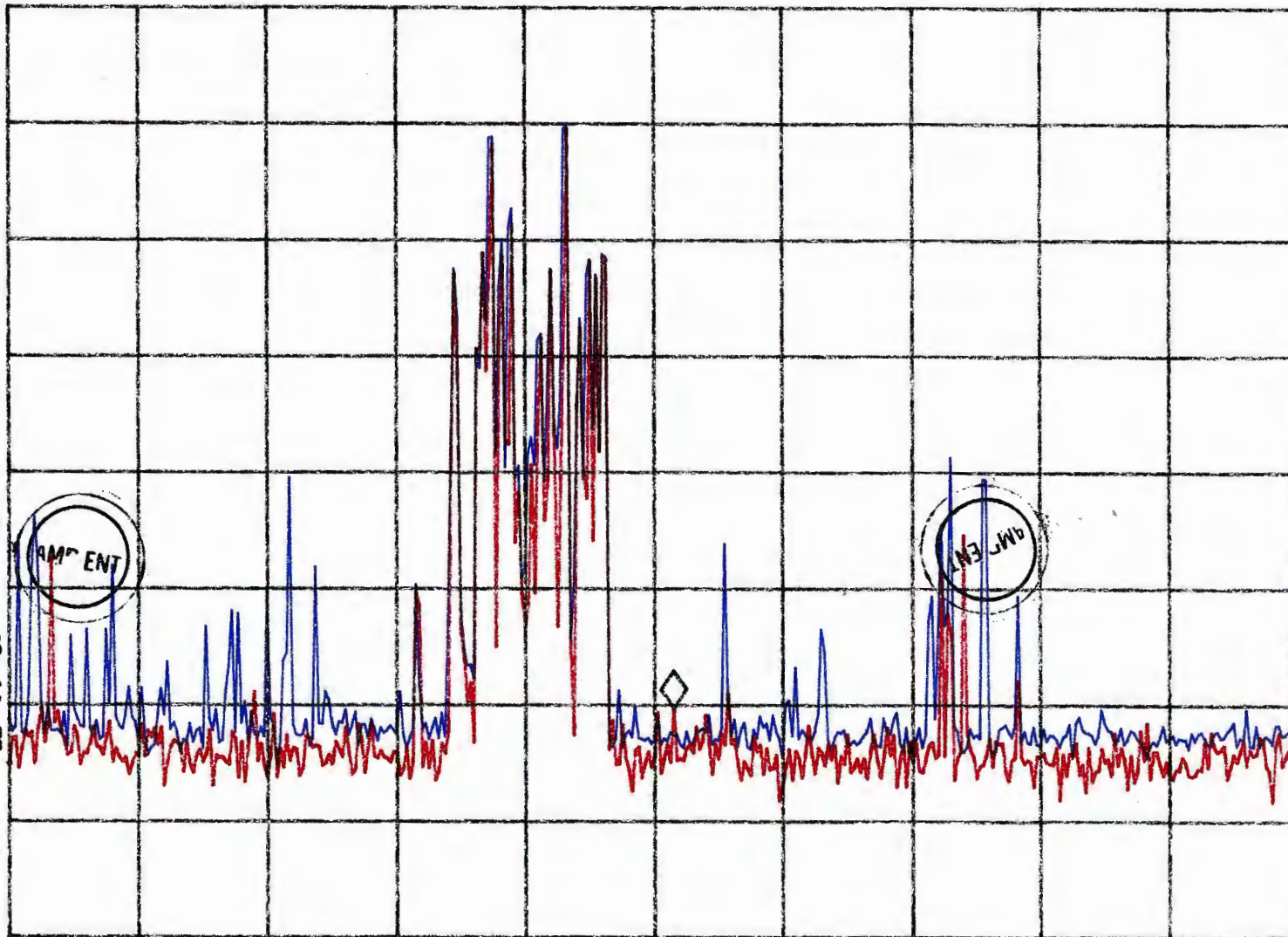
SWP 35.4 msec



23: 35: 22 SEP 09, 2014 <sup>315390C2</sup>  
GENIE ~~6493~~ 315390F2, R: ON 3M: ANT: VERT MKR 117.6 MHz  
REF 80.0 dBμV #AT 0 dB 19.72 dBμV

PEAK  
LOG  
10  
dB/

VA VB  
SC FC  
CORR



START 30.0 MHz

#RES BW 120 kHz

VBW 300 kHz

STOP 200.0 MHz

SWP 35.4 msec



02:50:56 SEP 10, 2014

GENIE 6493 315390C2: R: ON: ANT: VERT

MKR 634.0 MHz

REF 80.0 dB $\mu$ V

#AT 0 dB

21.91 dB $\mu$ V

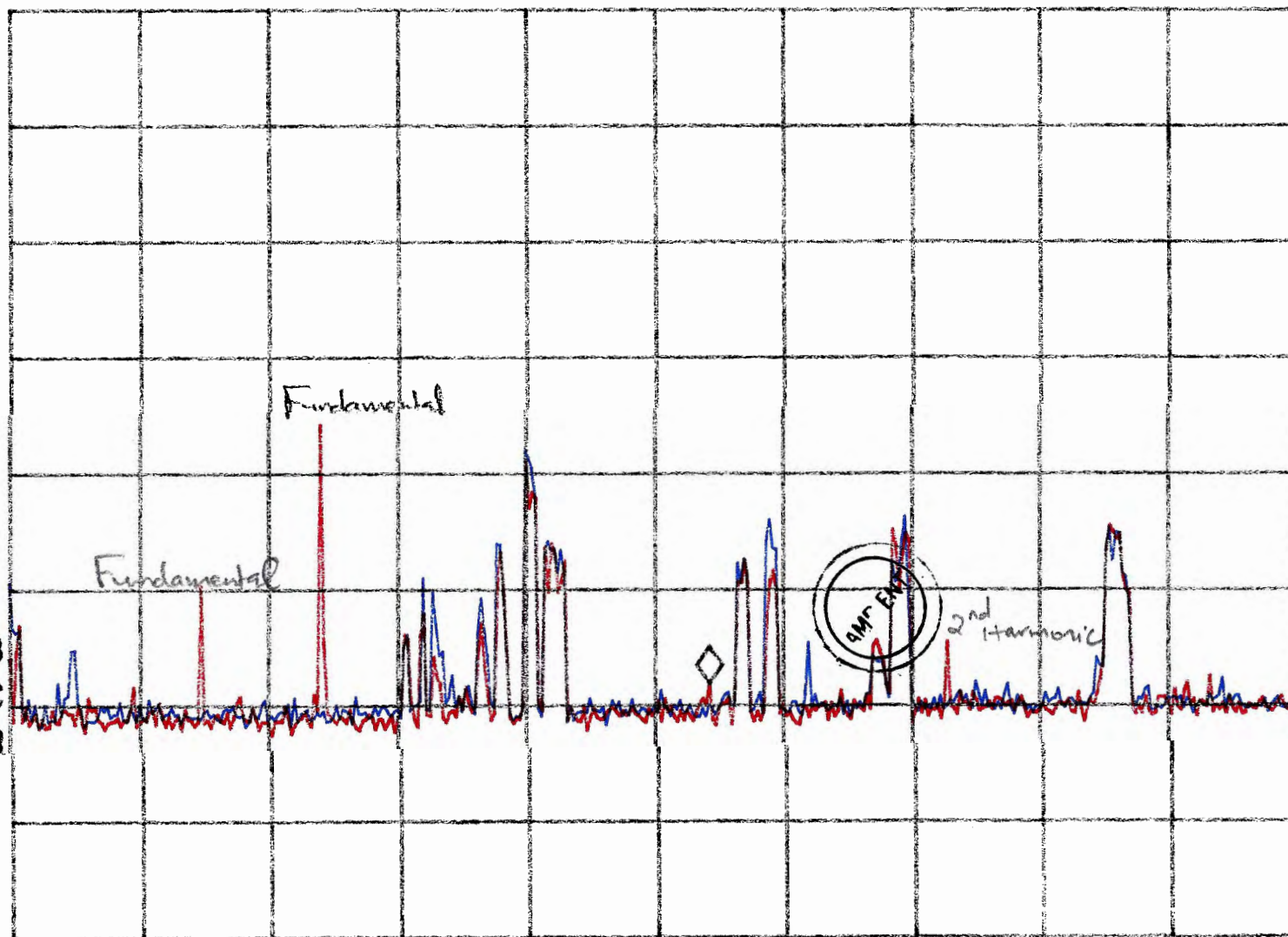
PEAK

LOG

10

dB/

VA VB  
SC FC  
CORR



START 200.0 MHz

#RES BW 120 kHz

VBW 300 kHz

STOP 1.0000 GHz

SWP 167 msec

03:05:29 SEP 10, 2014

GENIE 6493 315390C2: R: ON: ANT: HOR

MKR 782.0 MHz

REF 80.0 dB $\mu$ V

#AT 0 dB

22.76 dB $\mu$ V

PEAK

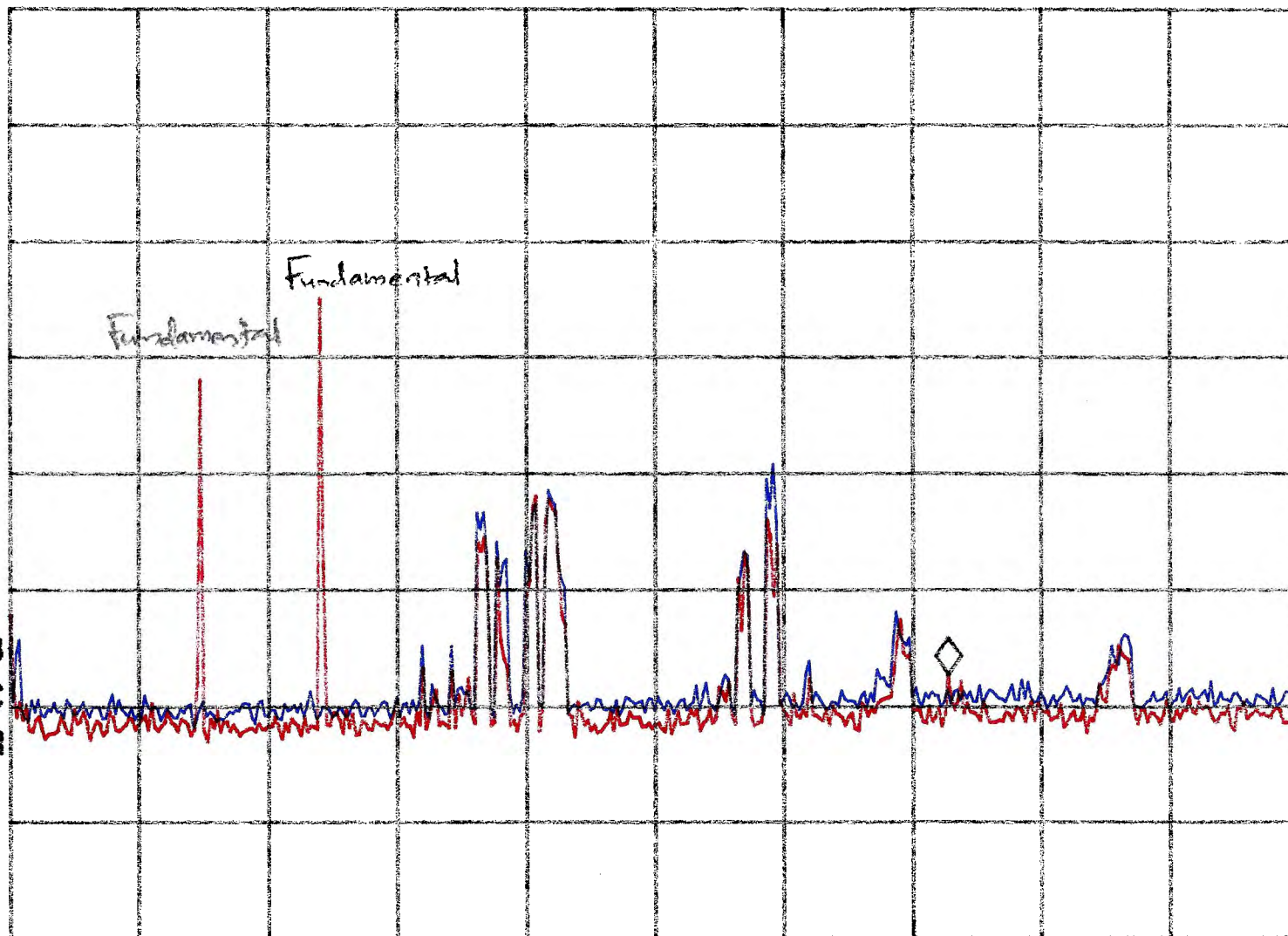
LOG

10

dB/

Fundamental  
Fundamental

VA VB  
SC FC  
CORR



START 200.0 MHz

STOP 1.0000 GHz

#RES BW 120 kHz

VBW 300 kHz

SWP 167 msec

21: 59: 57 SEP 10. 2014

HP GENIE <sup>6501</sup>~~6493~~ 315390C2--R: ON: 3M: ANT: HOR

MKR 1.330 GHz

REF 80.0 dB $\mu$ V

#AT 0 dB

27.04 dB $\mu$ V

PEAK

LOG

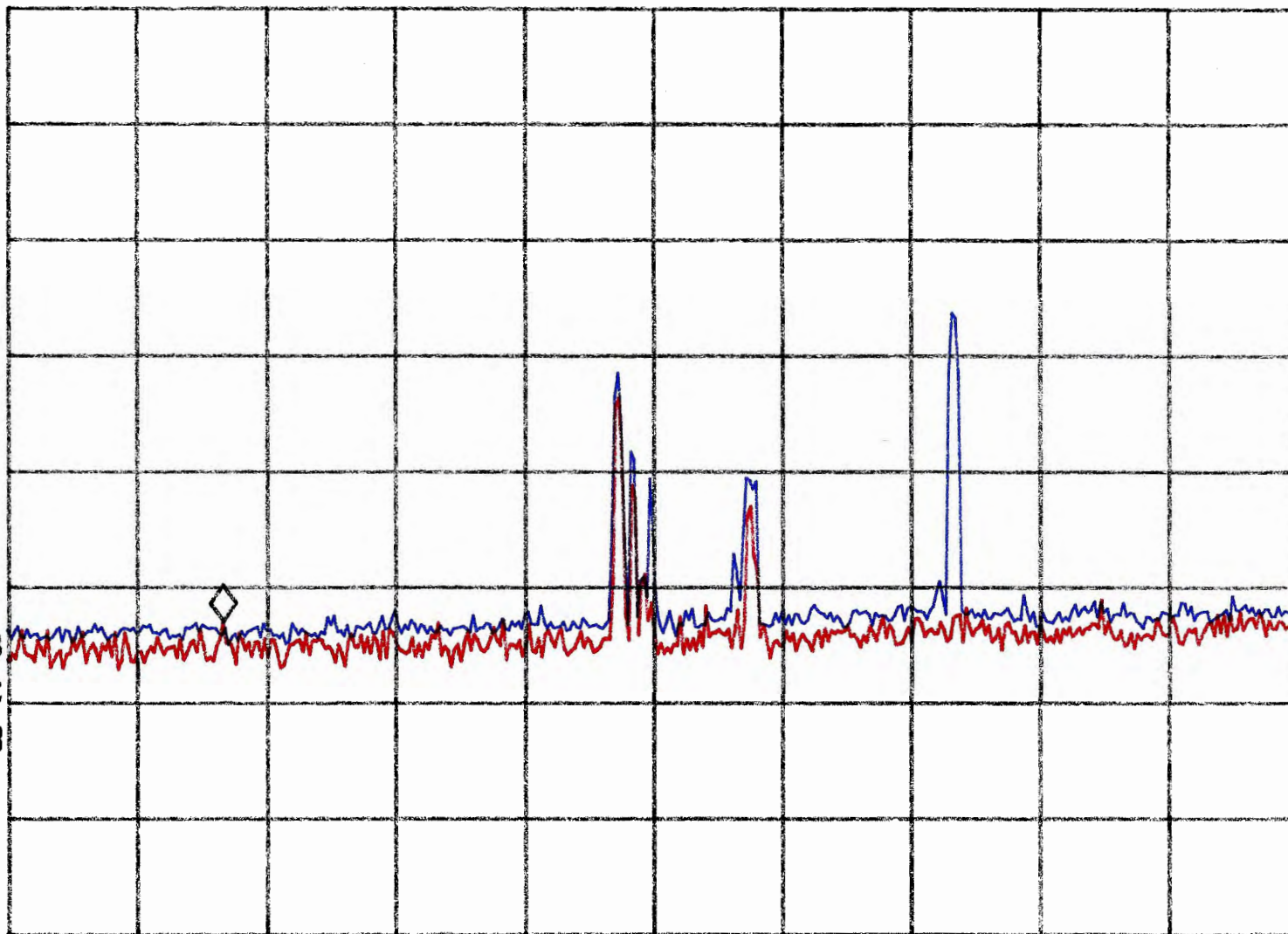
10

dB/

VA VB

SC FC

CORR



START 1.000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

STOP 3.000 GHz

SWP 58.4 msec



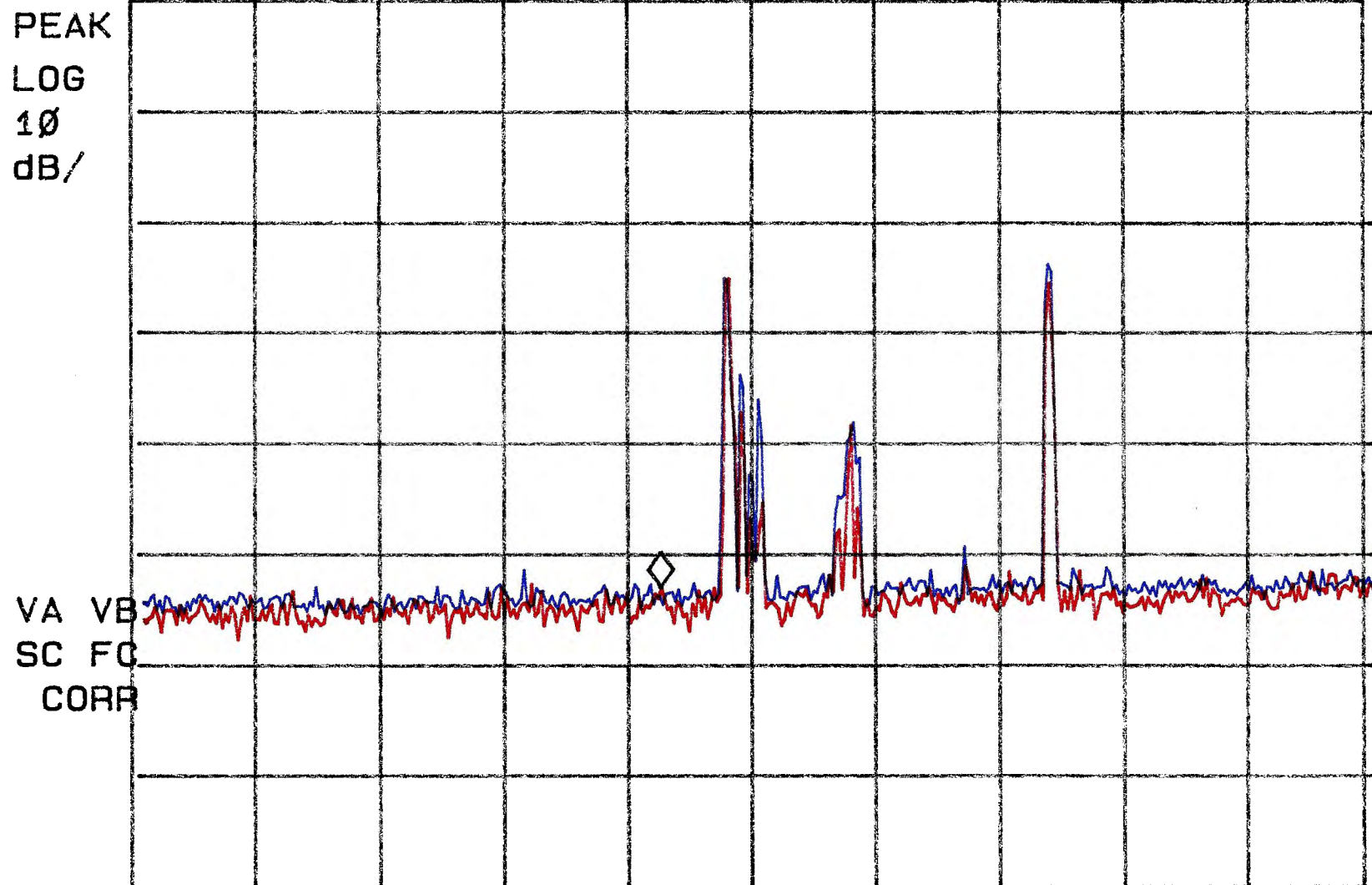
22: 18: 43 SEP 10, 2014

hp GENIE 6493 315390C2-R: ON: 3M: ANT: VERT

MKR 1.835 GHz

REF 80.0 dB $\mu$ V #AT 0 dB

27.06 dB $\mu$ V



START 1.000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

STOP 3.000 GHz

SWP 58.4 msec

22: 28: 19 SEP 10, 2014

HP GENIE ~~6493~~ 315390C2-R: ON: 3M: ANT: VERT

MKR 3.870 GHz

REF 80.0 dB $\mu$ V #AT 0 dB

28.57 dB $\mu$ V

PEAK

LOG

10

dB/

VA VB

SC FC

CORR

START 3.000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

STOP 6.000 GHz

SWP 60.0 msec

22: 33: 26 SEP 10, 2014

HP GENIE ~~6493~~ <sup>6501</sup> 315390C2-R: ON: 3M: ANT: HOR

MKR 3.180 GHz

REF 80.0 dBμV

#AT 0 dB

28.45 dBμV

PEAK

LOG

10

dB/

VA VB

SC FC

CORR

START 3.000 GHz

#RES BW 1.0 MHz

VBW 300 kHz

STOP 6.000 GHz

SWP 60.0 msec