



Retlif Testing Laboratories

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FCC PART 15 REPORT of MEASUREMENTS on PocketWizard FlexTT5 Transceiver

Company Name: LPA Design

Customer P.O.: K1141

Date of Report: February 6, 2009

Test Report No.: R-5125N-1

Test Start Date: January 13, 2009

Test Finish Date: February 4, 2009

Test Technicians: Michael Hippert, Matthew Seamans

Laboratory Supervisor: Todd Hannemann

Manager: Scott Wentworth

Results Prepared By: Jamie Ramsey

Government Source Inspection: N/A

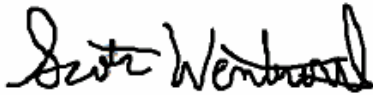
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We certify that these Test Results are true results obtained from the tests of the equipment stated, and relates only to the equipment tested. We further certify that the measurements shown in this Test Results package were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.



Todd Hannemann
Laboratory Supervisor



Scott Wentworth
Branch Manager

Non-Warranty Provision

The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

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This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report may not be used by the client to claim product endorsement by NVLAP, NIST or any agency of the U.S. Government.



Retlif Testing Laboratories

Test Report No. R-5125N-1
FCC ID: KDS-PW3-005

Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document.

Revision	Date	Pages Affected
-	February 6, 2009	Original Release



Retlif Testing Laboratories

Test Report No. R-5125N-1
FCC ID: KDS-PW3-005

Test Program Summary

Job Number: R-5093N-1
Applicant: LPA Design
Address: 4 IDX Drive, Suite 265
South Burlington, VT 05403
Test Sample: FlexTT5 Remote Flash Control Transceiver
Part Number: N/A
Model Number: TT5-C-US
Brand Name: PocketWizard FlexTT5
Serial Number: 5CU101092
Power Requirements: 3VDC via internal battery
Frequency Band of Operation: 340.0MHz to 354MHz
Modulation: OOK (on/off keying)
Type of Transmission: Control Signal (Pulse Recognition Codes)
Application: Remote Triggering of a Flashpack
Frequencies Tested: 340MHz, 347MHz, 354MHz

Test Specification:

FCC Rules and Regulations Part 15, Subpart C, Paragraph 15.231

Test Procedure:

ANSI C3.4:2003

Purpose:

The purpose of this test program was to demonstrate compliance of the PocketWizard FlexTT5 Remote Flash Control Transceiver to the requirements of FCC Part 15.231.

Test Methods:

The following table depicts the test methods that were performed on the EUT and the corresponding test results:

Testing Date(s)	Test Method	Test Results
1/14/09	15.231(b) Spurious Radiated Emissions (30MHz to 3.6GHz)	Complied
1/14/09	15.231(b), Field Strength of Fundamental	Complied
1/14/09	15.231(c) Occupied Bandwidth, 0.25% of Fundamental Frequency	Complied
2/4/09	Duty Cycle Determination	N/A



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Test Report No. R-5125N-1
FCC ID: KDS-PW3-005

Test Sample Operation:

The device is normally manually operated and transmits a control signal for remote triggering of a flashpack. Normal operation of the EUT complies with the parameters required in Part 15, Subpart C, Section 15.231 for momentary operated devices. For testing purposes only, the EUT was configured to continuously transmit.

Test Sample/Test Program:

- The transmitter is manually activated and employs a switch that automatically deactivates the transmitter within 5 seconds of being released.
- The transmitter does not perform periodic transmission at regularly predetermined intervals.
- The device can not be employed for RC purposes involving security.
- The device uses a permanently attached external plastic encased helix coiled spring antenna with no antenna connector.
- The device is powered by internal battery with no connections to the AC mains.
- The fundamental field strength did not exceed the specified limit at a test distance of 3.0 meters.
- The peak value of fundamental emissions did not exceed a peak field strength limit corresponding to 20dB above the maximum permitted average limit.
- The field strength of harmonic and spurious emissions did not exceed the applicable limit. No harmonic or spurious emissions were observed within 10dB of the specified limit at test distances of 1 or 3 meters.
- Radiated Emissions from the EUT were measured in all three axis. The attached Radiated Emissions test data is representative of the worst case orientation.
- The 20dB bandwidth and 99% bandwidth of fundamental emissions did not exceed 0.25% of the center operating frequency and were determined as follows:

Fundamental Frequency	=	340.0MHz
0.25% of Center Frequency	=	0.850MHz
0.850 divided by 2	=	0.425MHz
Bandwidth Range	=	Fundamental Frequency + and – 0.425MHz
340.0MHz – 0.425MHz	=	339.5751MHz
340.0MHz + 0.4250MHz	=	340.425Hz
Bandwidth Range	=	339.575MHz – 340.425MHz

Fundamental Frequency	=	347.0MHz
0.25% of Center Frequency	=	0.868MHz
0.868 divided by 2	=	0.434MHz
Bandwidth Range	=	Fundamental Frequency + and – 0.434MHz
347.0MHz – 0.434MHz	=	346.560MHz
347.0MHz + 0.434MHz	=	347.434MHz
Bandwidth Range	=	346.560MHz – 347.434MHz



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Test Report No. R-5125N-1
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Fundamental Frequency	=	354.0MHz
0.25% of Center Frequency	=	0.885Hz
0.885 divided by 2	=	0.4425MHz
Bandwidth Range	=	Fundamental Frequency + and – 0.442MHz
354.0MHz – 0.442MHz	=	353.558MHz
354.0MHz + 0.442MHz	=	354.442MHz
Bandwidth Range	=	353.558MHz – 354.442MHz

Determination of Field Strength Limits:

The field strength limits shown below were calculated as instructed in Section 15.231.

Fundamental Frequency: 340.0MHz

Where F is the frequency in MHz, the formula for calculating the maximum permitted fundamental field strength for the band 260-470MHz, $\mu\text{V/m}$ at 3 meters is as follows:

$41.6667(F) - 7083.3333$	=	Field Strength Limit ($\mu\text{V/m}$)
41.6667×340.0	=	14166.68
$14166.68 - 7083.3333$	=	7083
Field Strength Limit	=	$7083\mu\text{V/m} = 77.0\text{dBuV/M}$

The maximum permitted unwanted emission level is 20dB below the maximum permitted fundamental level which equals $708\mu\text{V/m} = 57.0\text{dBuV/M}$.

Fundamental Frequency: 347.0MHz

Where F is the frequency in MHz, the formula for calculating the maximum permitted fundamental field strength for the band 260-470MHz, $\mu\text{V/m}$ at 3 meters is as follows:

$41.6667(F) - 7083.3333$	=	Field Strength Limit ($\mu\text{V/m}$)
41.6667×347.0	=	14458.35
$14458.35 - 7083.3333$	=	7375
Field Strength Limit	=	$7375\mu\text{V/m} = 77.36\text{dBuV/M}$

The maximum permitted unwanted emission level is 20dB below the maximum permitted fundamental level which equals $738\mu\text{V/m} = 57.36\text{dBuV/M}$.



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Test Report No. R-5125N-1
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Fundamental Frequency: 354.0MHz

Where F is the frequency in MHz, the formula for calculating the maximum permitted fundamental field strength for the band 260-470MHz, $\mu\text{V/m}$ at 3 meters is as follows:

$$\begin{aligned} 41.6667(F) - 7083.3333 &= \text{Field Strength Limit } (\mu\text{V/m}) \\ 41.6667 \times 354.0 &= 14750 \\ 14750 - 7083.3333 &= 7667 \\ \text{Field Strength Limit} &= 7667\mu\text{V/m} = 77.69\text{dBuV/M} \end{aligned}$$

The maximum permitted unwanted emission level is 20dB below the maximum permitted fundamental level which equals $767\mu\text{V/m} = 57.69\text{dBuV/M}$.

Determination of Duty Cycle:

The transmitter controls were adjusted to maximize the transmitted duty cycle. The analyzer was set for a frequency span of 0Hz. The sweep time was then adjusted in order to display one full pulse train. The transmitter on time was then summed and compared to the time for one full cycle in order to obtain the duty cycle. The pulse train exceeded 100msec so 100msec was used as the cycle time and the period with the “worst case” on time was used to calculate the duty cycle. The on times were determined as follows:

The transmitter pulse train was the same for all 3 frequencies tested. The individual pulses within the pulse train were measured and summed in order to obtain the total “on time”. Within the 100msec there were a total of 10 pulses (8 pulses with 521.04usec duration, 1 pulse with 547.09 usec and 1 pulse with 416.83usec duration).

$$\begin{aligned} \text{Transmitter On Time} &= 5.132\text{milliseconds} \\ \text{Transmitter Cycle Time} &= 100\text{milliseconds} \\ \text{Transmitter Duty Cycle} &= 5.132\% \\ \text{On Time divided by Cycle Time} &= \text{Duty Cycle Factor} \\ 5.132 \text{ divided by } 100 &= 0.05132 \\ 0.05132 \text{ converted to dB } (\text{LOG}_{10} .05132)20 &= -25.79 \\ \text{Duty Cycle Factor} &= \textbf{-25.79dB} \end{aligned}$$

Duty Cycle Factor Determination Plots are included in this report.

**Retlif Testing Laboratories**

Test Report No. R-5125N-1
FCC ID: KDS-PW3-005

Test Methods:

15.231 (b) Fundamental & Spurious Radiated Emissions

The test sample was placed on a 80cm high wooden test stand which was located 3 meters from the test antenna on an FCC listed open area test site. Emissions from the EUT were maximized by rotating the test sample and adjusting the test sample orientation and antenna polarization. The maximized peak field strength of each emission was measured and recorded and compared to the limit specified in 15.35 (b) (peak limit corresponds to 20dB above the maximum permitted average limit). The duty cycle factor was applied to the peak readings in order to determine the average field strength of the emissions for comparison to the specified average limits.

Test Results: The worst case maximum peak field strength of the fundamental frequency at 340.0MHz was 93.96dBuV/M which met the peak limit of 97.0dBuV. The maximum average field strength at 340.0MHz was 68.17dBuV which met the specified average limit of 77.0dBuV. The worst case maximum peak field strength of the fundamental frequency at 347.0MHz was 93.96dBuV/M which met the peak limit of 97.36dBuV. The maximum average field strength at 347.0MHz was 68.17dBuV which met the specified average limit of 77.360dBuV. The worst case maximum peak field strength of the fundamental frequency at 354.0MHz was 94.61dBuV/M which met the peak limit of 97.69dBuV. The maximum average field strength at 354.0MHz was 68.82dBuV which met the specified average limit of 77.69dBuV. No harmonic/spurious frequencies were observed above the noise floor of the test equipment which was a minimum of 10dB below the specified limit.

15.231 (c) Occupied Bandwidth

The test sample was placed on a test bench and configured to transmit its normal modulated signal at maximum power. The spectrum analyzers resolution bandwidth, sweep rate and span were adjusted for the frequency being measured. The upper and lower frequency points corresponding to levels 20dB down from the peak of the modulated carrier frequency were used to determine the occupied bandwidth.

Test Results: The bandwidth of the emission at 340.0MHz, 347.0MHz and 354.0MHz was less than 0.25% of the center frequency and met the requirements of 15.231 (c).



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Test Setup Photographs



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Test Photographs Spurious Radiated Emissions



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Test Report No. R-5125N-1
FCC ID: KDS-PW3-005

Test Photographs Spurious Radiated Emissions



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Test Report No. R-5125N-1
FCC ID: KDS-PW3-005

Test Photograph
Field Strength of Fundamental



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Test Report No. R-5125N-1
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Test Photograph Occupied Bandwidth & Duty Cycle



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Equipment Lists

Fundamental & Spurious Radiated Emissions

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
3116	Pre-Amplifier	Miteq	0.1 GHz - 18 GHz	AFS42-35	8/31/2007	1/31/2009
3117	Power Supply	B&K Precision	0-30 Vdc, 3.0 A	1630	1/31/2008	1/31/2009
3258	Double Ridge Guide	EMCO	1 - 18 GHz	3115	8/20/2008	8/20/2009
4029B	Test Site Attenuation	Retlif	3 / 10 Meters	RNH	7/21/2008	7/21/2009
5053	Biconilog	EMCO	26 MHz - 3 GHz	3142C	10/4/2007	2/4/2009
712	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESIB26	9/11/2007	3/11/2009

Occupied Bandwidth

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
712	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESIB26	9/11/2007	3/11/2009

Duty Cycle

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
5070	EMI Test Receiver	Rohde & Schwarz	20 Hz - 40 GHz	ESIB40	1/14/2009	1/14/2010



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Test Report No. R-5125N-1
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Test Data



Retlif Testing Laboratories

Test Report No. R-5125N-1
FCC ID: KDS-PW3-005

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

Test Method:	Fundamental Field Strength		
Customer:	LPA Design, Inc.	Job No:	R-5125N-1
Test Sample:	PocketWizard Flex TT5 Transceiver		
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.231(b)		
Operating Mode:	Continuously Transmitting		
Technician:	M.Seamans	Date:	January 14, 2009
Notes:	Corrected peak readings meet peak limit (20dB above average limit) per 15.35		

[illegible]

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

Test Method:	Spurious Emissions 30MHz to 3.6GHz		
Customer:	LPA Design, Inc.	Job No:	R-5125N-1
Test Sample:	PocketWizard Flex TT5 Transceiver		
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.231(b)		
Operating Mode:	Continuously Transmitting		
Technician:	M.Seamans	Date:	1/14/2009
Notes:	Fundamental Frequency: 340 MHz		

[illegible]

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

Test Method:	Spurious Emissions 30MHz to 3.6GHz		
Customer:	LPA Design, Inc.	Job No:	R-5125N-1
Test Sample:	PocketWizard Flex TT5 Transceiver		
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.231(b)		
Operating Mode:	Continuously Transmitting		
Technician:	M.Seamans	Date:	1/14/2009
Notes:	Fundamental Frequency: 347 MHz		

[illegible]

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

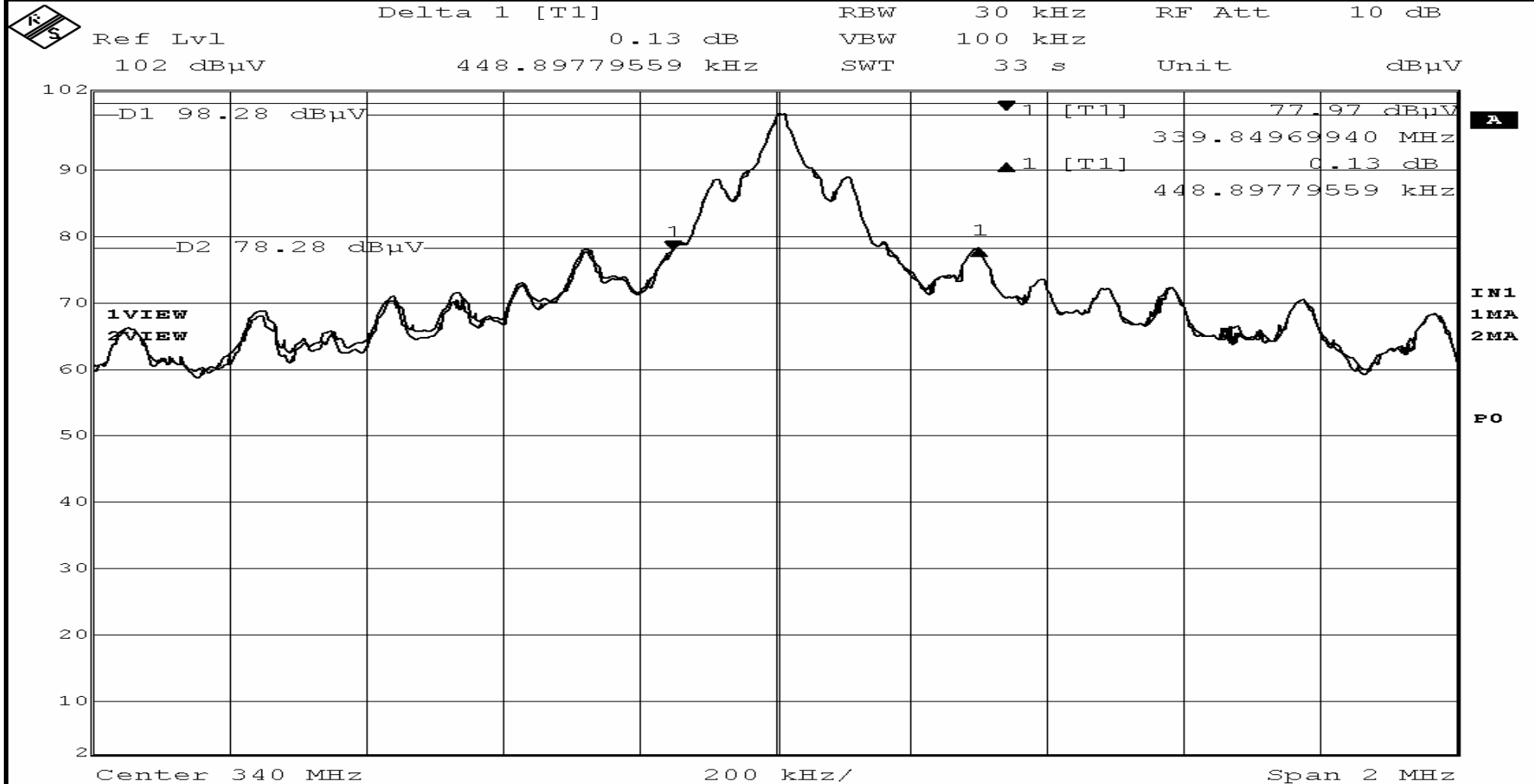
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Customer:	LPA Design, Inc.	Job No:	R-5125N-1
Test Sample:	PocketWizard Flex TT5 Transceiver		
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.231(b)		
Operating Mode:	Continuously Transmitting		
Technician:	M.Seamans	Date:	1/14/2009
Notes:	Fundamental Frequency: 354 MHz		

[illegible]

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(c)	Job No: R-5125N-1
Operating Mode:	Continuously Transmitting		Technician: M. Seamans
Notes:	Transmit Frequency 340 MHz Occupied Bandwidth: 448.897 kHz		
Date:	1/14/2009		

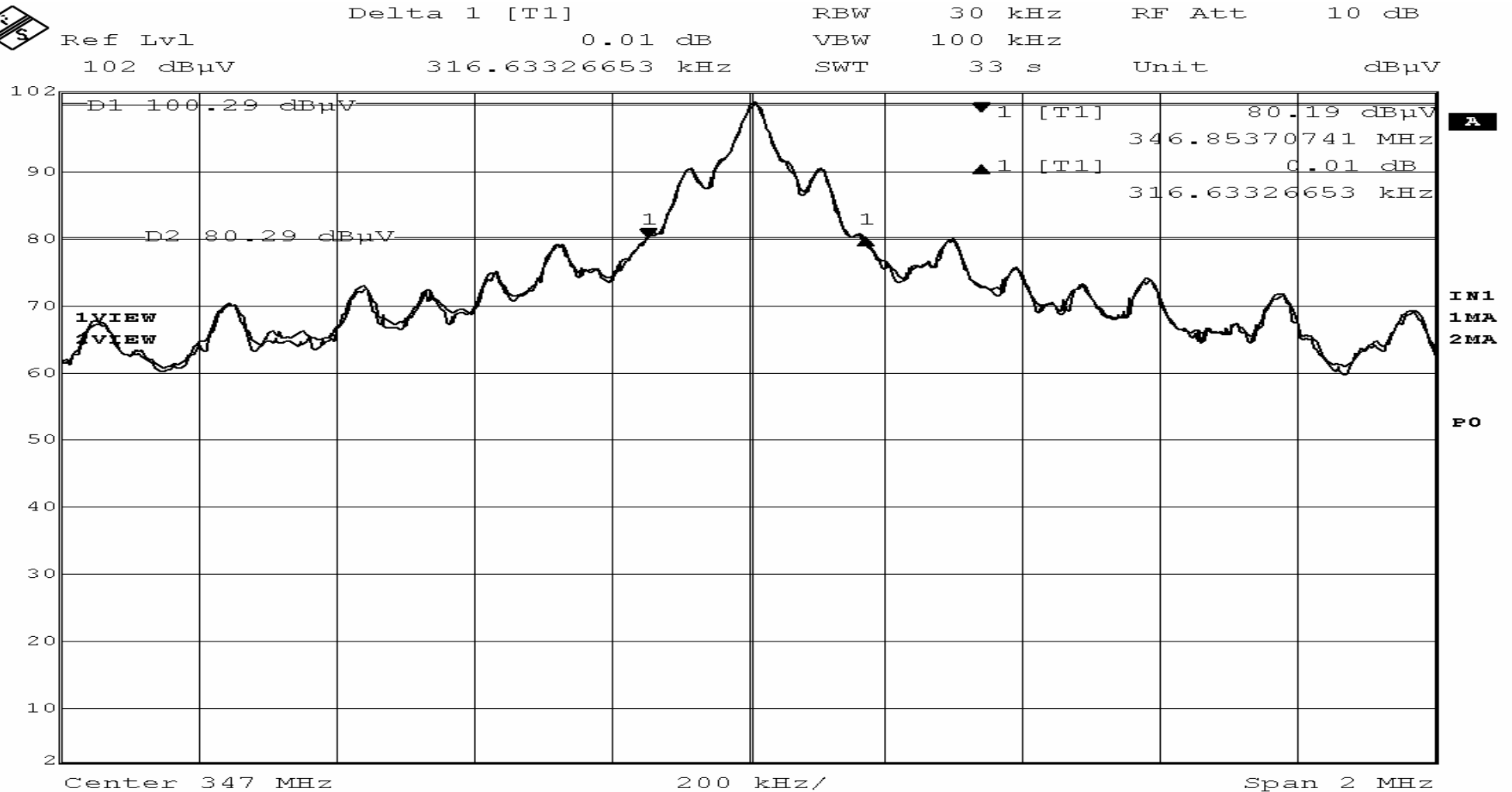


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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(c)	Date:
Operating Mode:	Continuously Transmitting		
Notes:	Transmit Frequency 347 MHz Occupied Bandwidth: 316.633 kHz		

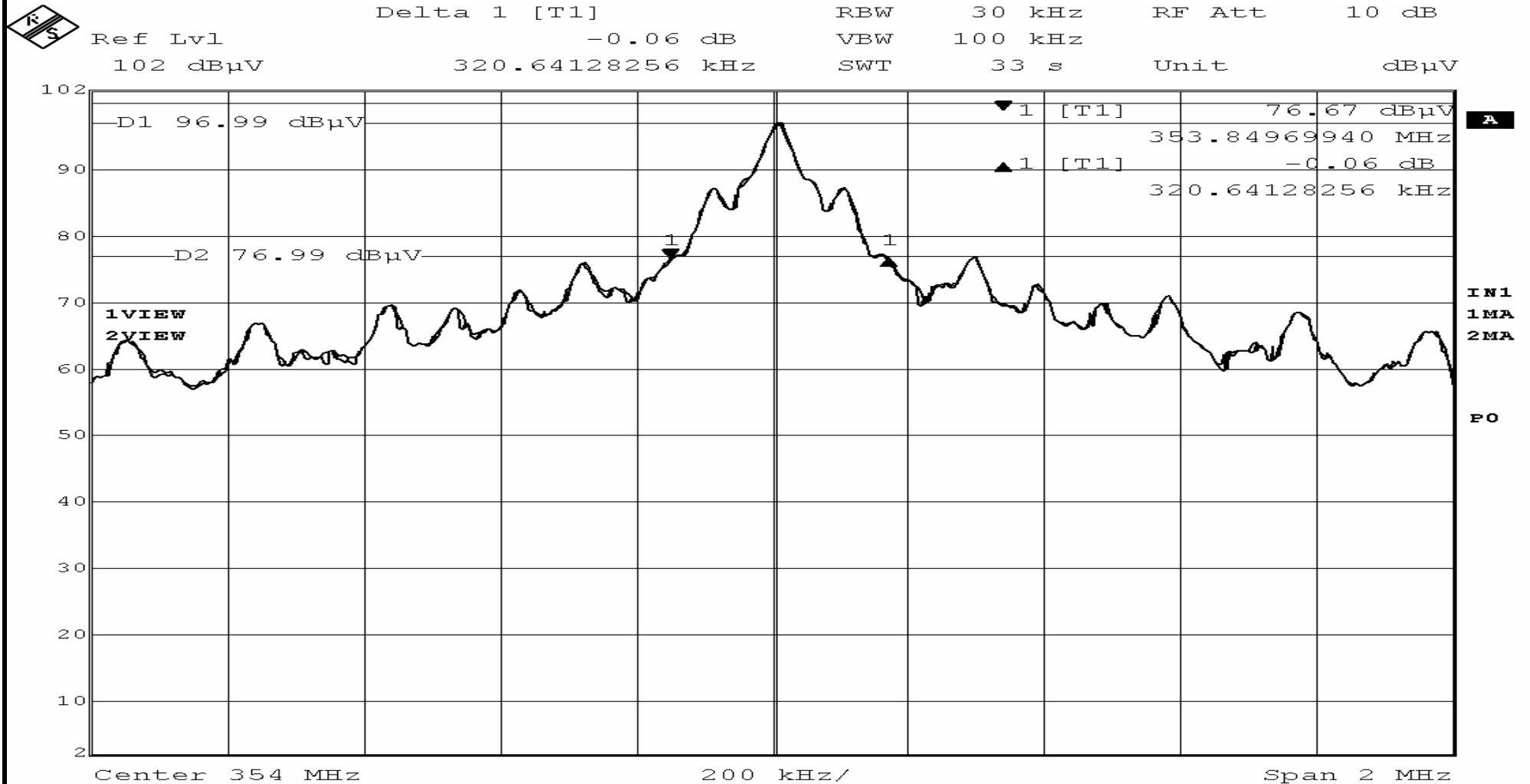


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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(c)	Date:
Operating Mode:	Continuously Transmitting		
Notes:	Transmit Frequency 354 MHz Occupied Bandwidth: 320.641 kHz		



Date: 14.JAN.2009 11:12:57

RETLIF TESTING LABORATORIES

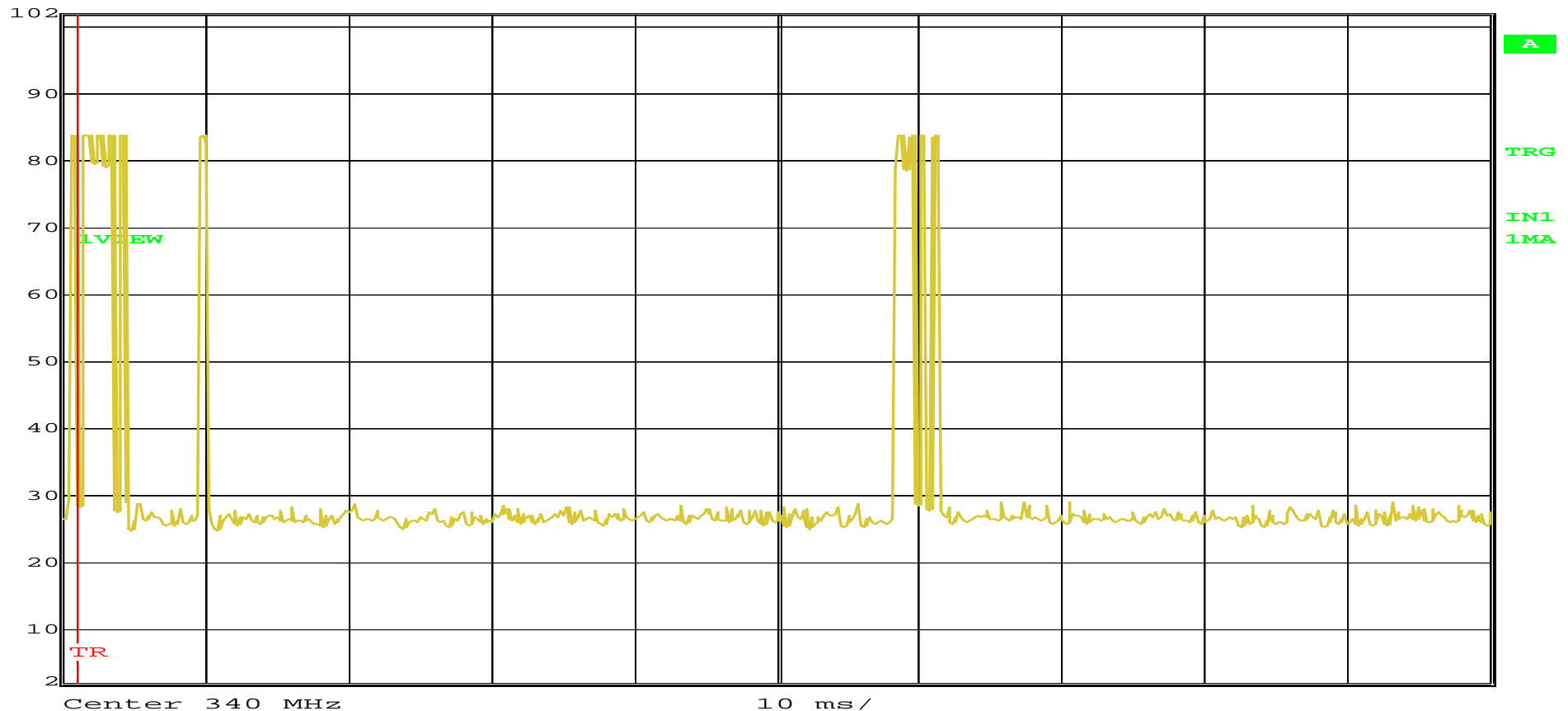
EMISSIONS DATA SHEET

Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date:
Operating Mode:	Continuously Transmitting		
Notes:	Maximum Duty Cycle		



Ref Lvl
102 dBμV

RBW 100 kHz RF Att 10 dB
VBW 100 kHz
SWT 100 ms Unit dBμV

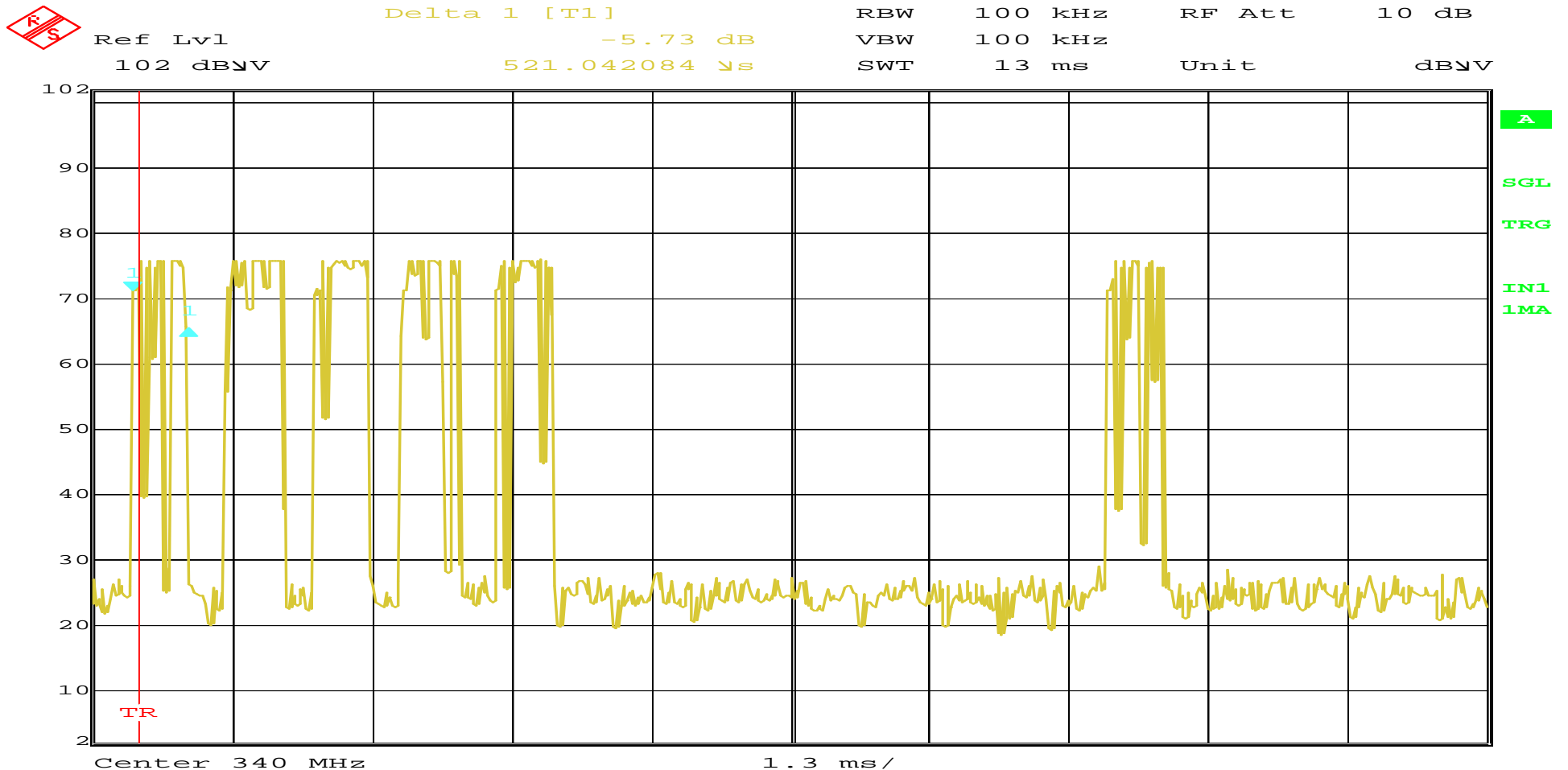


Date: 4.FEB.2009 17:35:16

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date: 2/4/2009
Operating Mode:	Continuously Transmitting		
Notes:	Maximum Duty Cycle		

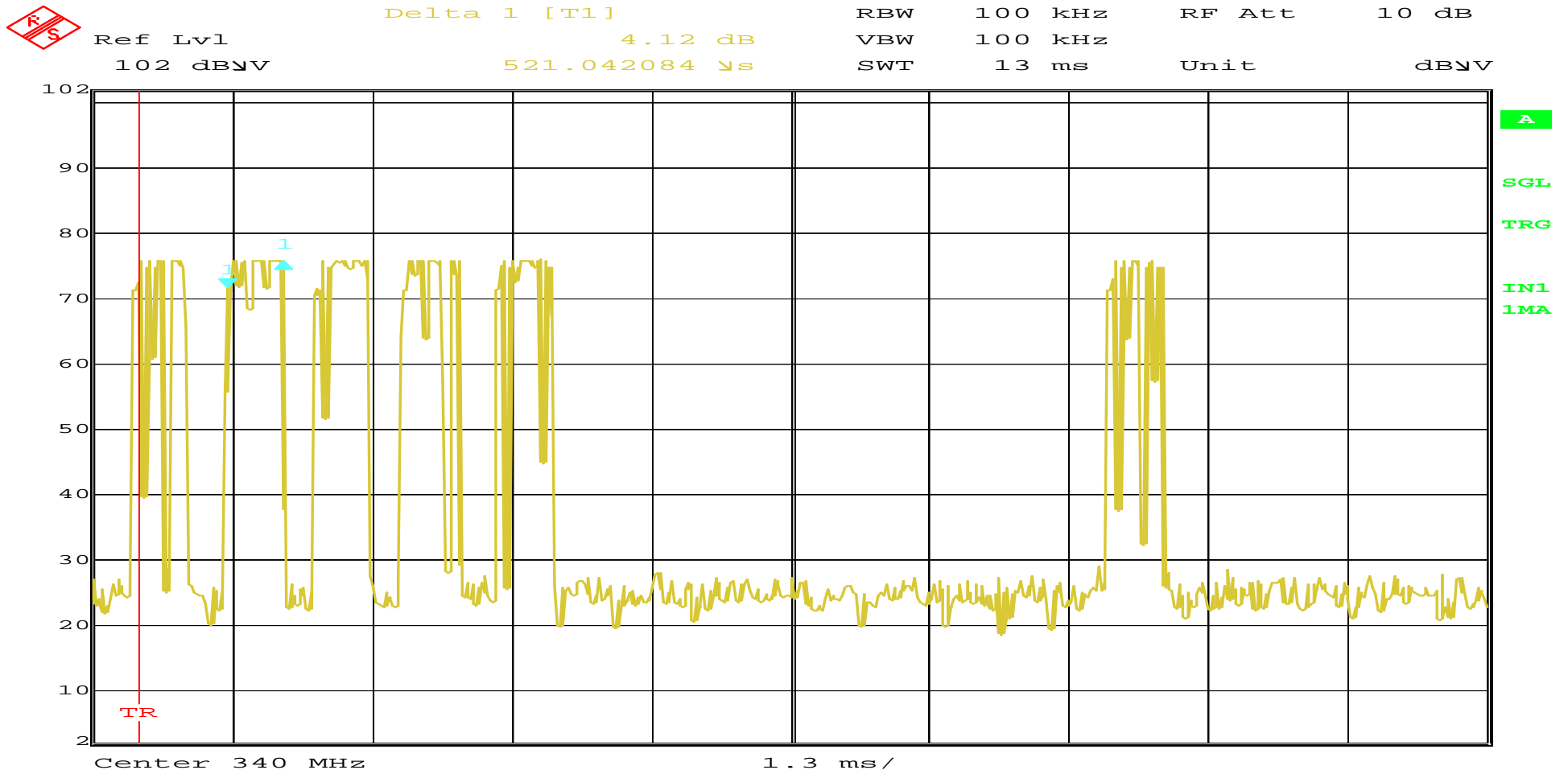


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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date: 2/4/2009
Operating Mode:	Continuously Transmitting		
Notes:	Maximum Duty Cycle		

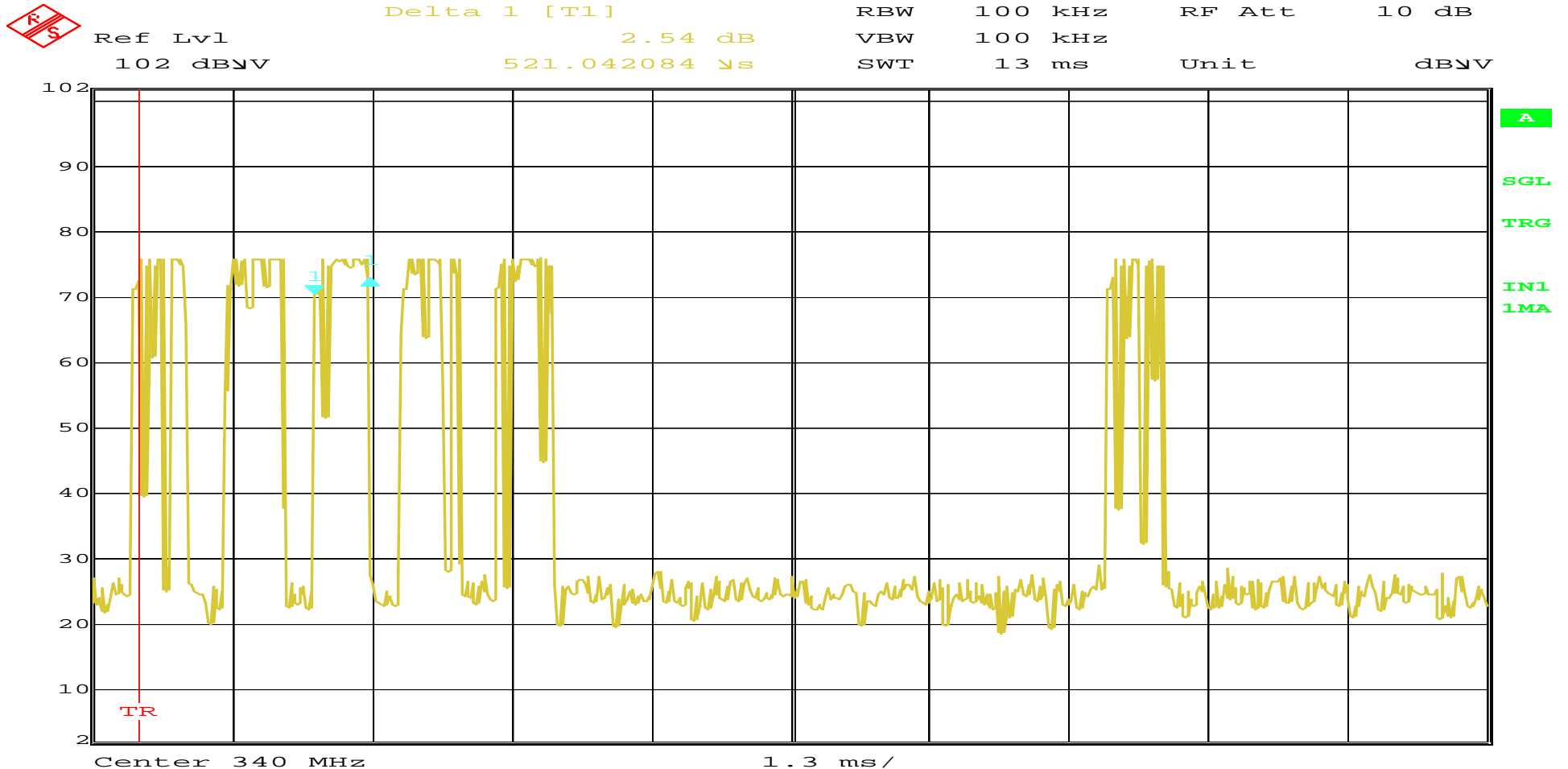


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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date: 2/4/2009
Operating Mode:	Continuously Transmitting		
Notes:	Maximum Duty Cycle		

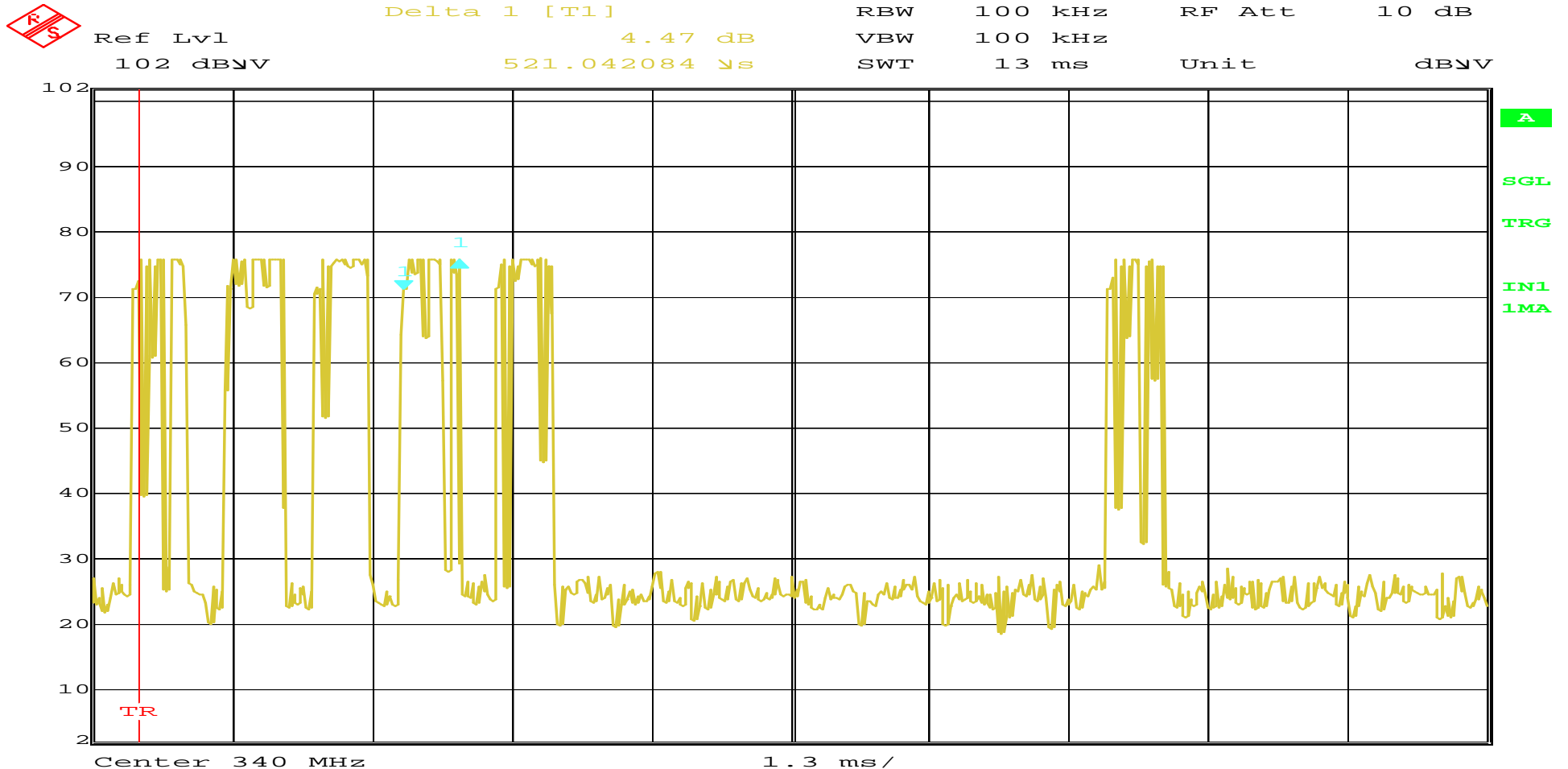


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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date:
Operating Mode:	Continuously Transmitting		
Notes:	Maximum Duty Cycle		

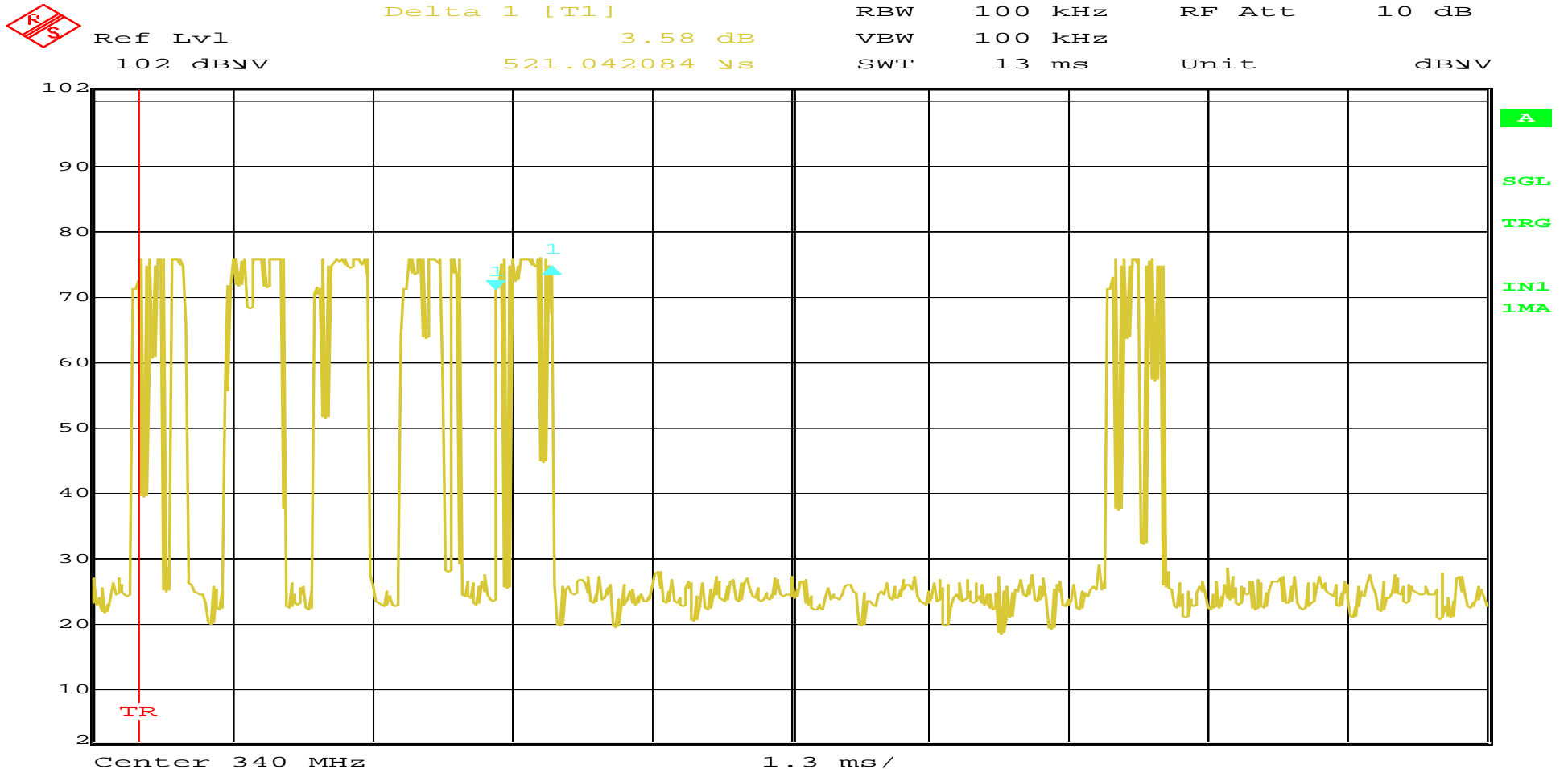


Date: 4.FEB.2009 17:26:39

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date: 2/4/2009
Operating Mode:	Continuously Transmitting		
Notes:	Fundamental Frequency: 340 MHz		

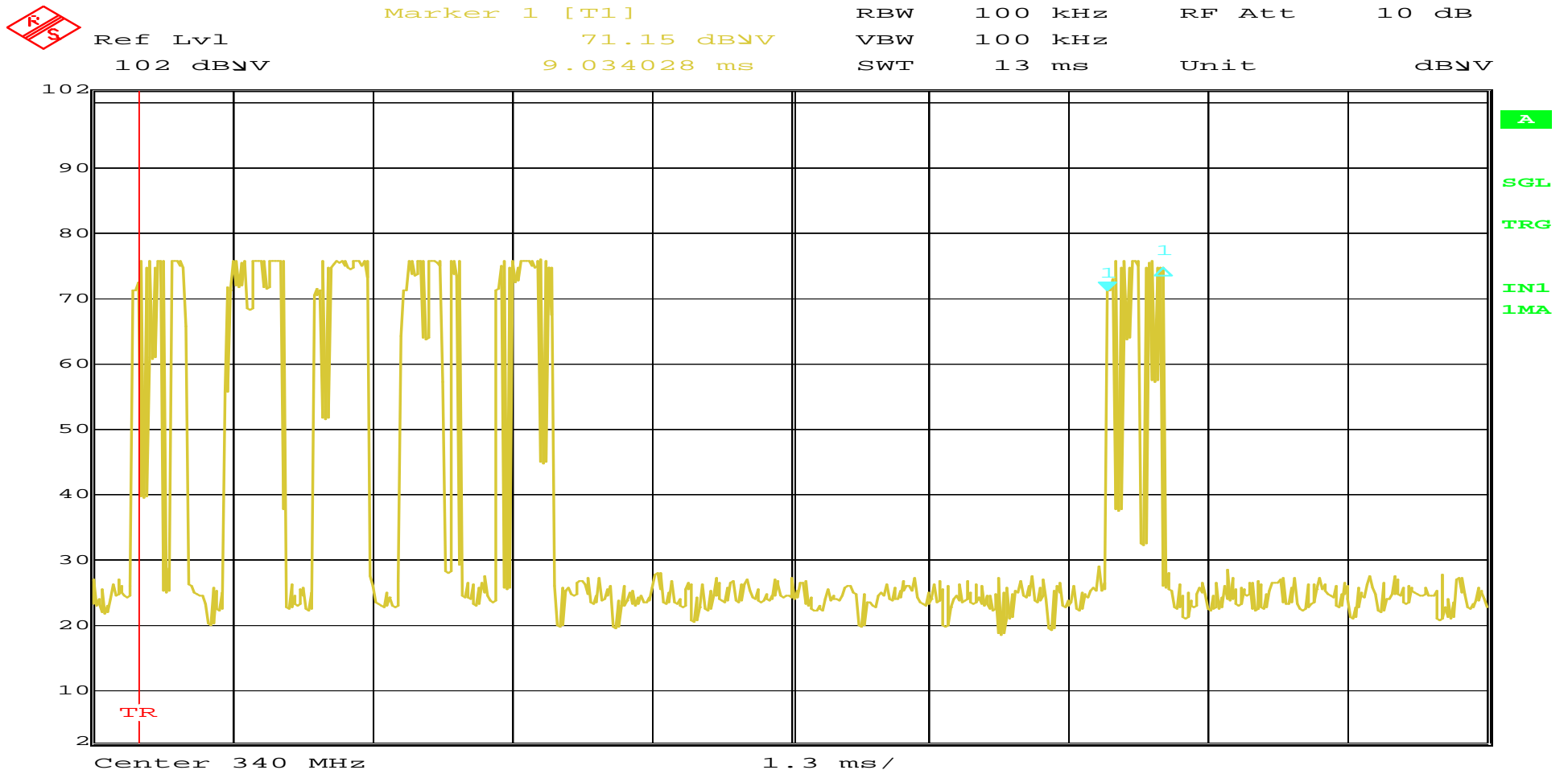


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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date: 2/4/2009
Operating Mode:	Continuously Transmitting		
Notes:	Fundamental Frequency: 340 MHz		



Date: 4.FEB.2009 17:28:12

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

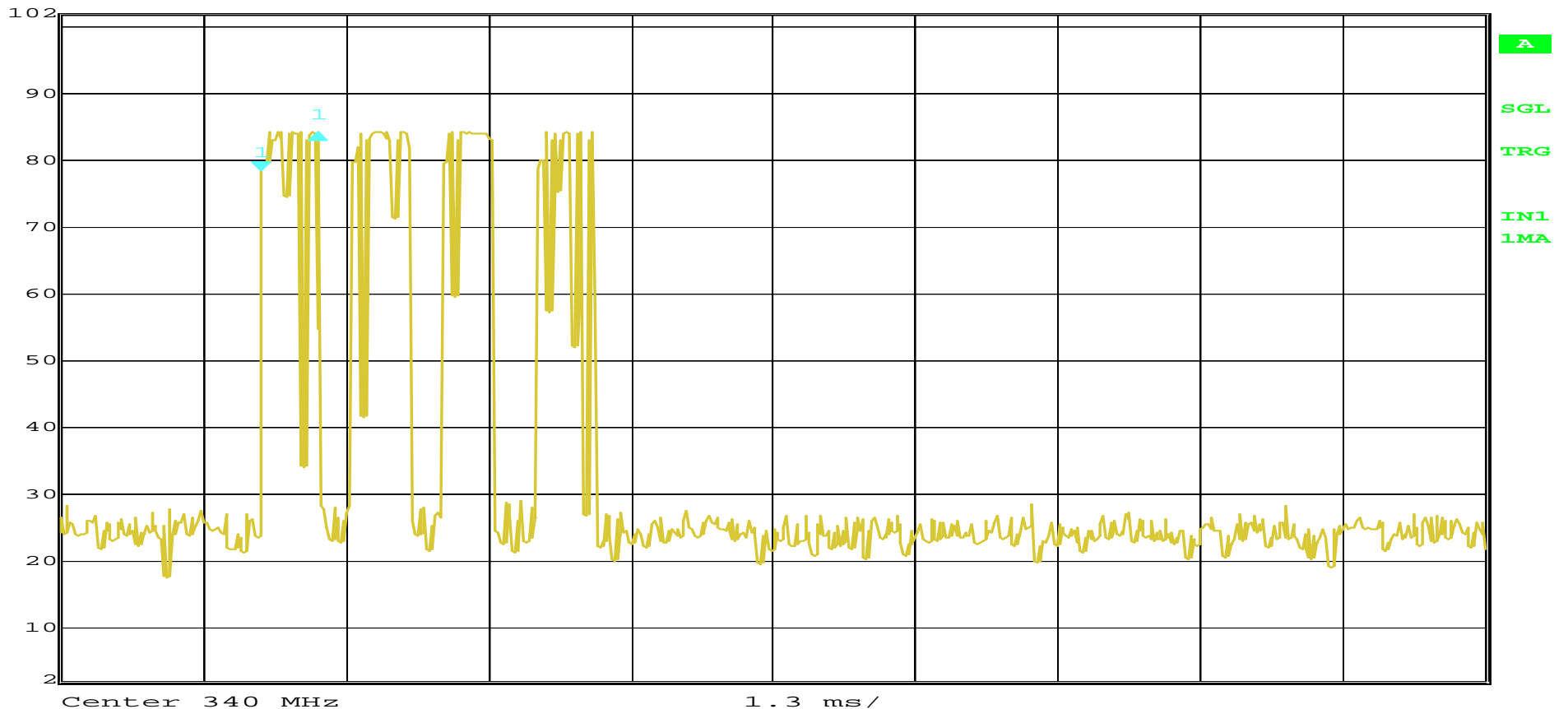
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Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date: 2/4/2009
Operating Mode:	Continuously Transmitting		
Notes:	Fundamental Frequency: 340 MHz		



Delta 1 [T1]

RBW 100 kHz RF Att 10 dB
 VBW 100 kHz
 SWT 13 ms Unit dBμV

Ref Lvl 102 dBμV
 Delta 1 [T1] 5.59 dB
 521.042084 μs

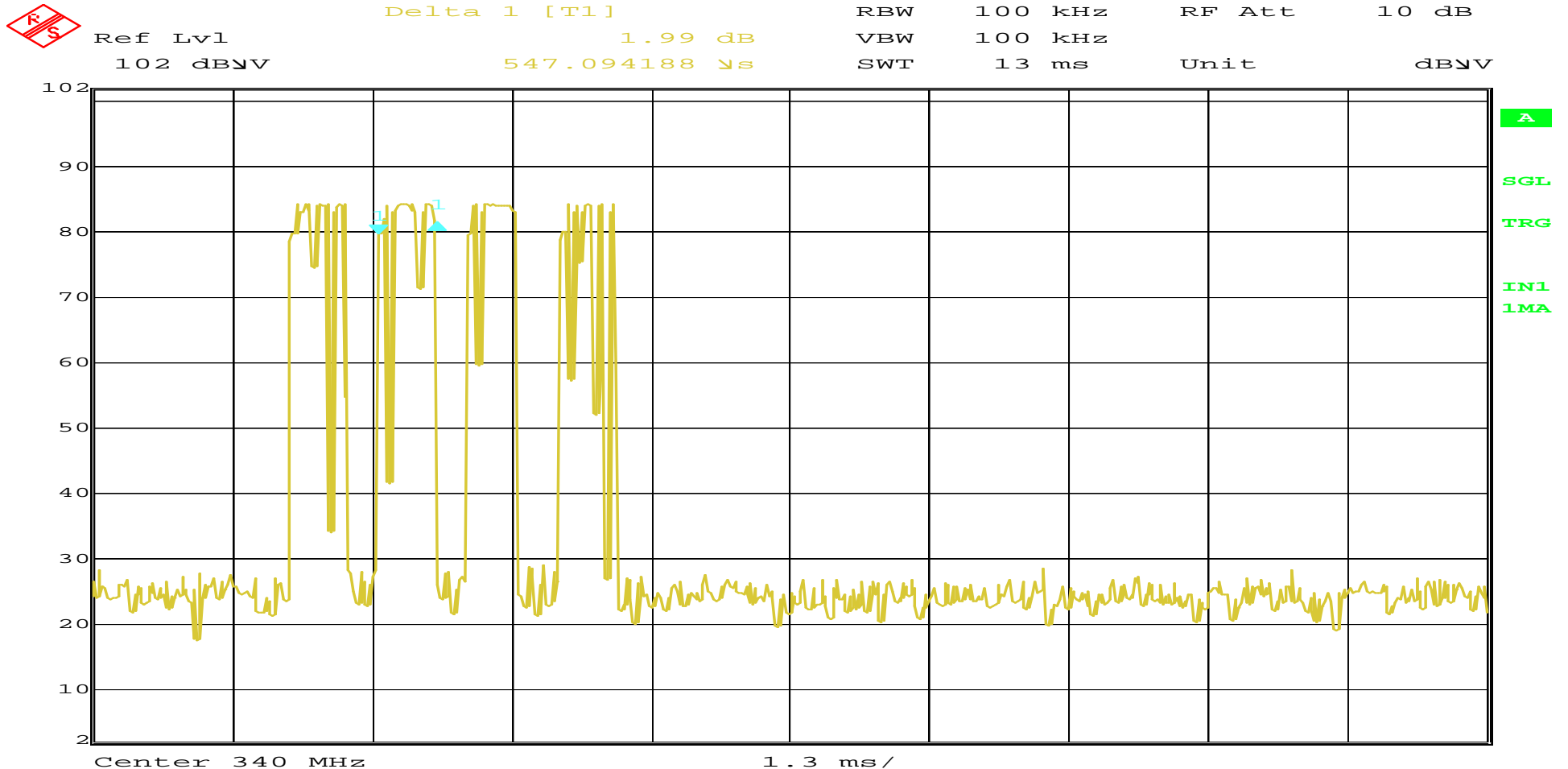


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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date: 2/4/2009
Operating Mode:	Continuously Transmitting		
Notes:	Fundamental Frequency: 347MHz		



Date: 4.FEB.2009 17:31:44

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

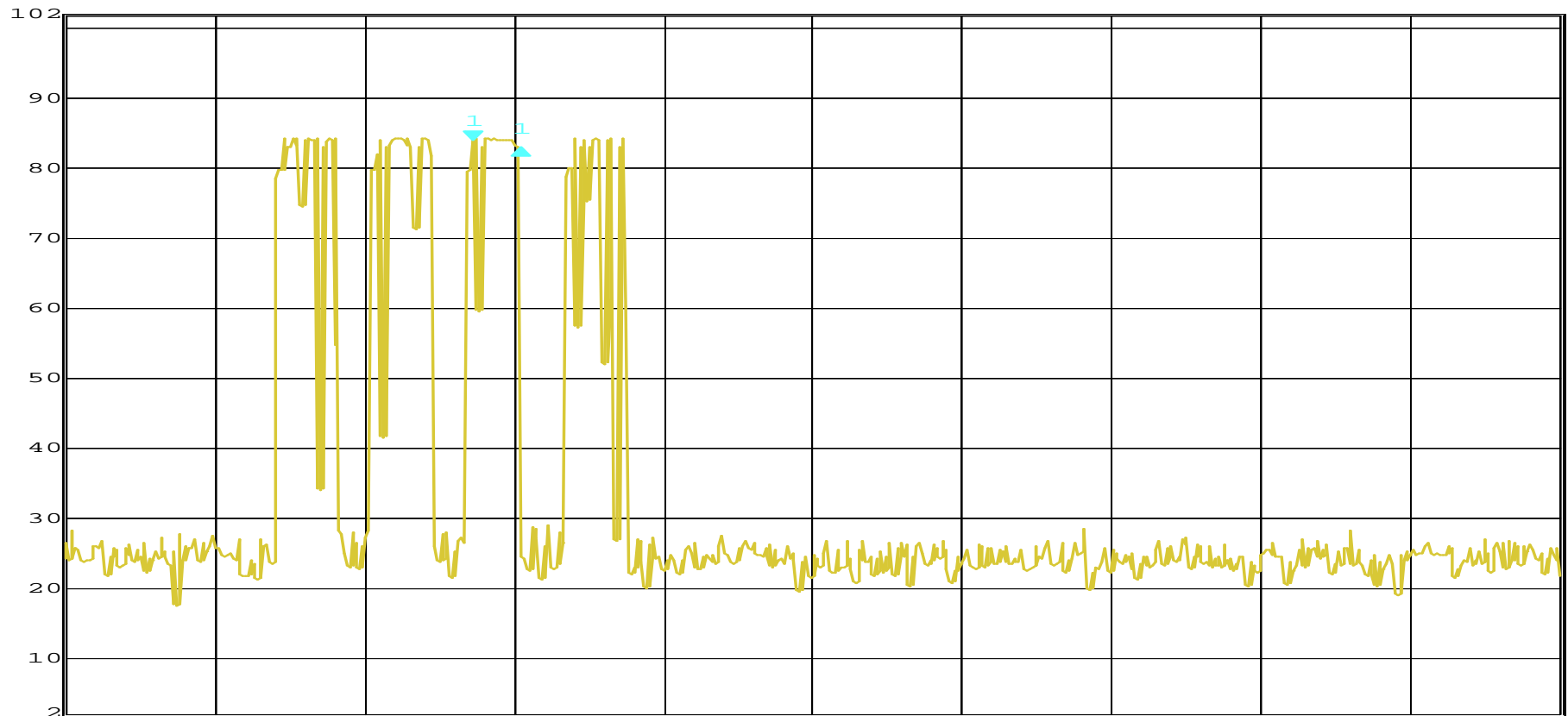
Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date: 2/4/2009
Operating Mode:	Continuously Transmitting		
Notes:	Fundamental Frequency: 347MHz		



Delta 1 [T1]

RBW 100 kHz RF Att 10 dB
 VBW 100 kHz
 SWT 13 ms Unit dBμV

Ref Lvl -1.00 dB
 102 dBμV 416.833667 μs



A

SGL

TRG

IN1

1MA

Date: 4.FEB.2009 17:32:12

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

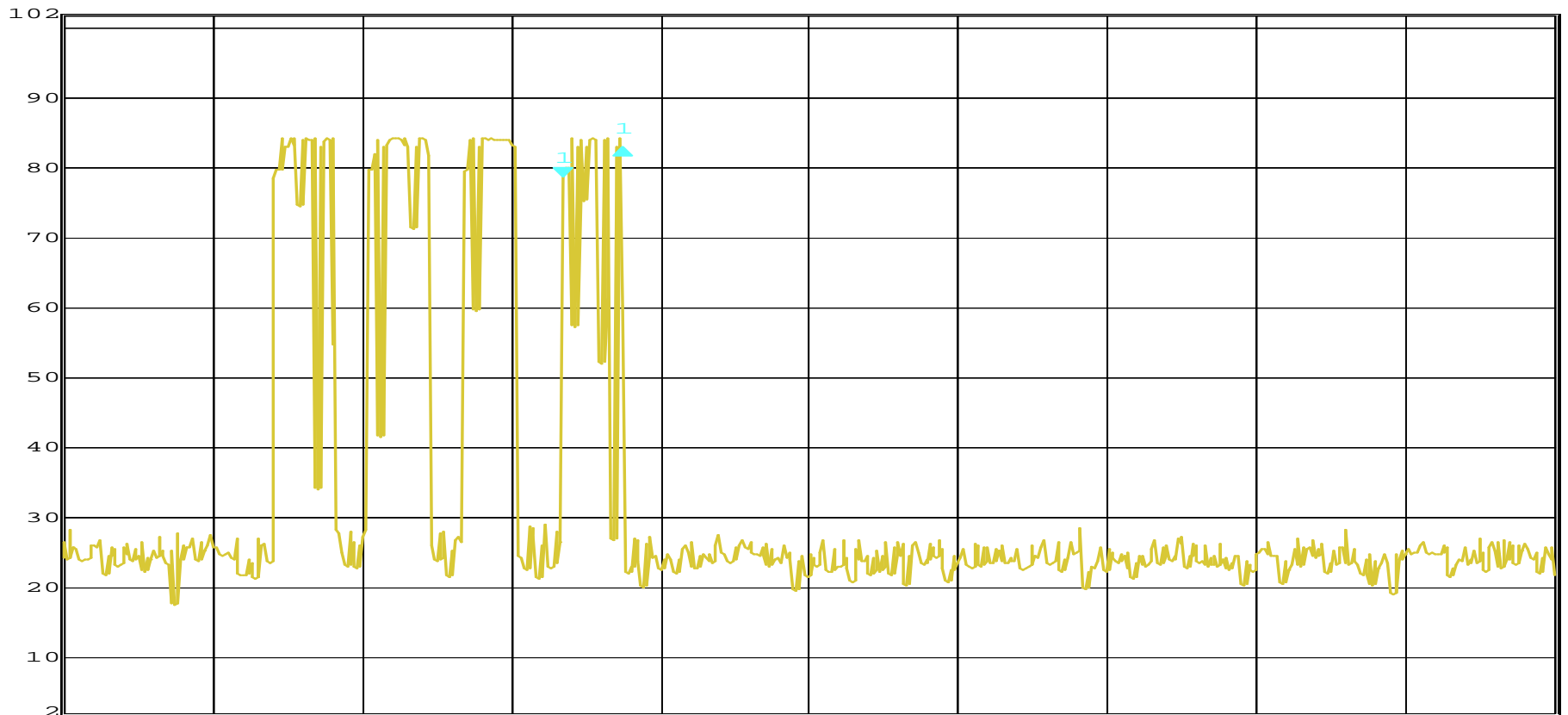
Test Method:	Duty Cycle Plots		
Customer:	LPA Design, Inc.	Test Sample:	PocketWizard Flex TT5 Transceiver
Model No:	TT5-C-US	Serial No:	5CU101092
Test Specification:	FCC Part 15, Subpart C	15.231(b)	Date: 2/4/2009
Operating Mode:	Continuously Transmitting		
Notes:	Fundamental Frequency: 347MHz		



Delta 1 [T1]

RBW 100 kHz RF Att 10 dB
 VBW 100 kHz
 SWT 13 ms Unit dBμV

Ref Lvl 102 dBμV
 Delta 1 [T1] 4.40 dB
 521.042084 μs



Center 340 MHz 1.3 ms/

Date: 4.FEB.2009 17:32:40