



FCC Part 15, Subpart C, Section 15.247

Test Report

On

**Blink Sync Module
FCC ID: 2AF77-H1621502**

Customer Name: Immedia Semiconductor

Customer P.O.: 1001

Date of Report: January 5, 2017

Test Report No.: R-6151N-1

Test Start Date: November 14, 2016

Test Finish Date: November 17, 2016

Test Technician: M. Seamans

Report Approved By: S. Wentworth

Report Prepared By: J. Ramsey

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Technical Information

Report Number: R-6151N-1

Customer: Immedia Semiconductor

Address: 100 Burt Road, Suite 100
Andover, MA 01810

Manufacturer: Immedia Semiconductor

Manufacturer Address: 100 Burt Road, Suite 100
Andover, MA 01810

Test Sample: Blink Sync Module

Model Number: BSM00201U

Serial Numbers: IMS0606441600004 & IMS0606441600030

FCC ID: 2AF77-HI621502

Type: Frequency Hopping Spread Spectrum Transmitter

Power Requirements: 5VDC via 120 VAC, 60 Hz AC/DC Power Adapter

Power Supply: AC Adapter, Sunun, Model: SA68-050100U

Frequency of Operation: 902.3 MHz to 927.6 MHz

Equipment Class: DSS

Antenna Type: Internal PCB Antenna – 1.5 dBi gain

Equipment Use: Used in a Home Monitoring System

Test Specification:

FCC Rules and Regulations Part 15, Subpart C, Section 15.247

Test Procedure:

ANSI C63.4:2014
ANSI C63.10:2013



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Report No. R-6151N-1

Test Facility:

Retlif Testing Laboratories
101 New Boston Road
Goffstown, NH 03045

FCC Registered Test Site Number: 90899

Table 1 – Tests Performed

FCC Part 15, Subpart C	Test Method
15.247(a)(1)	Channel Separation
15.247(a)(1)	20 dB Bandwidth
15.247(a)(1)(i)	Number of Channels and Occupancy Time
15.247(b)(1) and (4)	Peak Conducted Output Power
15.247(d)	Spurious Emissions, 30 MHz to 10 GHz
15.247(a)/15.209(a)	Field Strength of Spurious Emissions
15.207(a)	Conducted Emissions, Power Leads, 150 kHz to 30 MHz

Table 2 – Support Equipment

Description	Manufacturer	Model Number	Serial Number
Laptop Computer	Compaq	Presario CQ60	2CE9501ZD7
Router	Asus	RT-N12	B81AH2004179
Laptop Computer	Asus	Q400A	N/A
Laptop Computer	Toshiba	Satellite P55-A5312	8D215205S



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Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.



Scott Wentworth
Branch Manager
NVLAP Approved Signatory



Todd Hannemann
EMC Test Engineer
iNARTE Certified ATL-0255-T

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Non-Endorsement

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 must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



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Revision History

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

Revision	Date	Pages Affected
-	January 5, 2017	Original Release



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Requirements and Test Results

Requirement:

FCC Section 15.247 (a)(1)

Channel Separation and 20 dB Bandwidth

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

- **Results:**

The carrier frequencies were separated by 400.80 kHz which exceeded the maximum 20 dB bandwidth of 376.75 kHz which complies with the requirements specified above.



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Requirements and Test Results (con't)

FCC Section 15.247 (a)(1)(i)

Number of Channels and Occupancy Time

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

- **Results:**

The number of hopping frequencies used was 64 and the average time of occupancy was 240.48 msec which complied with the above requirements.



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Requirements and Test Results (con't)

FCC Section 15.247 (b)(1) and (4) Peak Conducted Output Power

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

(4) The conducted output power limit specified in Paragraph (b) of Section 15.247 is based on the use of antenna with directional gains that do not exceed 6 dBi. Except as shown in Paragraph (c) of Section 15.247, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in Paragraph (b)(1), (b)(2) and (b)(3) of Section 15.247, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

- **Results:**

The frequency hopping system utilizes a transmitting antenna with a gain of 1.5 dBi. The maximum peak conducted output power was measured to be 13.55 milliwatts and the EIRP is less than 1W.



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Requirements and Test Results (con't)

FCC Section 15.247 (d) Spurious Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under Paragraph (b)(3) of Section 15.247, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

- **Results:**

The antenna port conducted spurious emissions comply with the requirement that the radio frequency power be at least 20 dB below the highest in band level.

In addition, Harmonic and Spurious Emissions which were found to be within the restricted bands of operation, as defined in section 15.205 (a) were found to be in compliance with the general limits specified in section 15.209 (a).



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Requirements and Test Results (con't)

FCC Section 15.247 (a)

Field Strength of Spurious Radiation

Operation under the provisions of Section 15.247 is limited to frequency hopping and digitally modulated intentional radiators that comply with the provisions stated in Section 15.247(a)(1).

FCC Section 15.209(a)

Radiated Emission Limits, General Requirements

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in Table 3.

Table 3 - Radiated Emission Limits

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 to 88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960	500	3

- **Results:**

The field strength of spurious radiated emissions did not exceed the limits specified in Table 3.



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Field Strength Calculation/Conversion:

The maximized field strength of the emission was obtained as follows:

$$C_R = M_R + C_F$$

Where:

C_R = Corrected Reading in dB μ V/m

M_R = Uncorrected Meter Reading in dB μ V

C_F = Correction Factor in dB (Antenna Factor, Pre-amp + Cable Loss)

Example:

$$M_R = 15.35 \text{ dB}\mu\text{V}$$

$$C_F = 16.85 \text{ dB}$$

$$C_R = 15.35 \text{ dB}\mu\text{V} + 16.85 = 32.2 \text{ dB}\mu\text{V/m}$$

dB μ V/M is converted to uV/M for comparison to the specified limit using the formula:

$$\text{invLog dB}\mu\text{V/M}/20$$

$$32.2 \text{ dB}\mu\text{V/m} = 40.74 \text{ uV/m}$$

RF Power Conversion:

Power readings in dBm may be converted to mW using the formula:

$$\text{InvLog dBm}/10$$

$$\text{Example: } 20\text{dBm} = 100\text{mW}$$



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Requirements and Test Results (con't)

FCC Section 15.247 (i)

RF Exposure Limits

Spread Spectrum Transmitters operating under 15.247 must be operated in a manner that ensures the public is not exposed to RF energy levels in excess of the commission's guidelines. Based on the transmitter power and maximum antenna gain (see calculation below) the minimum separation distance was calculated to determine the distance for acceptable MPE power density levels to meet both the Occupational/Controlled Exposure and the General Population/Uncontrolled Exposure requirements of FCC Part 1.1310. The calculation below uses the more stringent General Population MPE Limits.

$$S = \frac{PG}{4\pi D^2}$$

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cm²

Per 1.1310 For the Frequency of 928 MHz $S = 928 / 1500 = 0.618 \text{ mW/cm}^2$

Power = Max Power Input to Antenna = 13.55 mW

Gain = Max Power Gain of Antenna = 1.5 dBi = 1.41 numeric

$$0.618 \text{ mW/cm}^2 = \frac{13.55 \times 1.41}{4\pi D^2} = \frac{19.10}{12.56 D^2}$$

$$D^2 = \frac{19.10}{12.56 \times 0.618}$$

$$D = \sqrt{2.46} = 1.57 \text{ cm}$$

The test sample has an internal antenna and the minimum separation distance will always be maintained.



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Requirement:**FCC Section 15.207(a) - Conducted Limits**

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits shown in Table 4, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of the paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Table 4 - Conducted Emission Limits

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
*Decreases due to logarithm of the frequency		

- **Results:**

The conducted emissions observed did not exceed the limits specified in Table 4.

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Equipment List

FCC Section 15.247(a)(1) Channel Separation

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5039	FLUKE	ATTENUATOR, COAXIAL	20 dB, DC - 12.4 GHz	Y9305	12/2/2015	12/31/2016
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/21/2016	10/31/2017

FCC Section 15.247(a)(1) 20 dB Bandwidth

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5039	FLUKE	ATTENUATOR, COAXIAL	20 dB, DC - 12.4 GHz	Y9305	12/2/2015	12/31/2016
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/21/2016	10/31/2017

FCC Section 15.247 (a)(1) (iii) Number of Channels and Occupancy Time

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5039	FLUKE	ATTENUATOR, COAXIAL	20 dB, DC - 12.4 GHz	Y9305	12/2/2015	12/31/2016
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/21/2016	10/31/2017

FCC Section 15.247 (a)(1) Peak Conducted Output Power

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5039	FLUKE	ATTENUATOR, COAXIAL	20 dB, DC - 12.4 GHz	Y9305	12/2/2015	12/31/2016
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/21/2016	10/31/2017

FCC Section 15.247 (d) Conducted Spurious Emissions, 30 MHz to 10 GHz

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5039	FLUKE	ATTENUATOR, COAXIAL	20 dB, DC - 12.4 GHz	Y9305	12/2/2015	12/31/2016
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/21/2016	10/31/2017



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**FCC Section 15.247 (a) / 15.209(a)
Field Strength of Spurious Radiated Emissions**

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
1232	AGILENT / HP	PRE-AMPLIFIER	1 - 26.5 GHz	8449B	6/16/2016	6/30/2017
3258	ETS / EMCO	ANTENNA, DOUBLE RIDGED GUIDE	1 - 18 GHz	3115	10/13/2016	4/30/2018
3427B	ETS / EMCO	ANTENNA, BICONICAL	20 - 200 MHz	3104	2/5/2016	8/31/2017
4029B	RETLIF	OPEN AREA TEST SITE, ATTENUATION	3 / 10 Meters	RNH	4/13/2016	4/30/2018
443	ELECTRO-METRICS	ANTENNA, LOG PERIODIC	200 MHz - 1000 MHz	LPA-25	10/6/2016	4/30/2018
5070E	MICRO-COAX	CABLE, COAXIAL	10 KHz - 18 GHz	UFB311A2-1800- 50U50U	5/27/2016	5/31/2017
5179B	MICRO-COAX	CABLE, COAXIAL	10 kHz - 18 GHz	UFB311A-1- 036050U50U	10/7/2016	10/31/2017
R469	AGILENT / HP	ANALYZER, SPECTRUM	100 Hz - 26.5 GHz	E7405A;A	11/17/2015	11/30/2016

**FCC Section 15.207 (a)
AC Line Conducted Emissions**

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5030B	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz	757C-10	3/16/2016	3/31/2017
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/21/2016	10/31/2017
5188	Cybertron	COMPUTER, CONTROL	N/A	TSVQJA2221	No Calibration Required	
5209	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30 MHz	21106-50-BP-25-BNC	3/23/2016	3/31/2017
5210	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30 MHz	21106-50-BP-25-BNC	3/23/2016	3/31/2017



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Test Photographs Channel Separation



Test Setup



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**FCC Section 15.247(a)(1)
Channel Separation
Test Data**

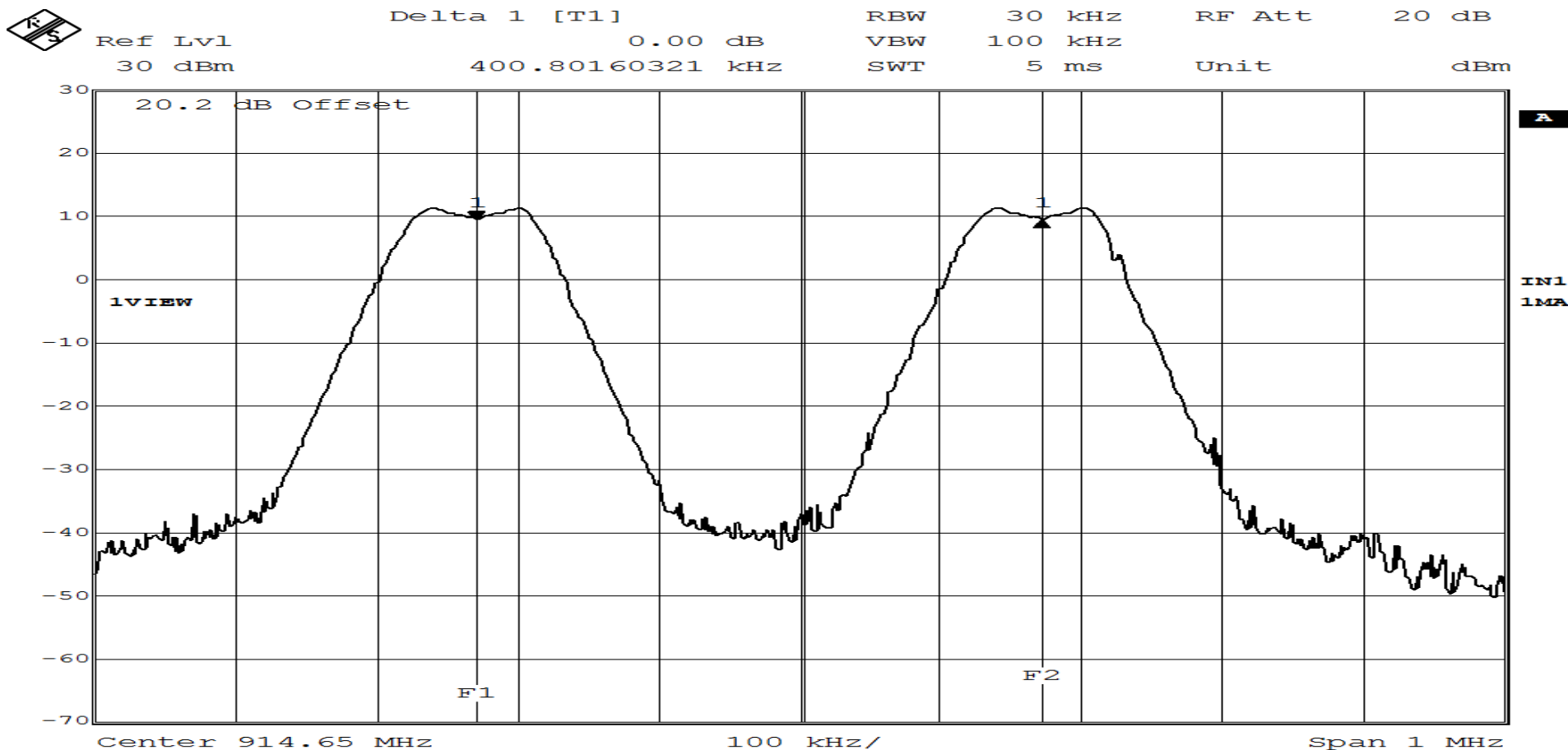


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RETLIF TESTING LABORATORIES

Test Method:	Channel Carrier Frequency Separation		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting hopping frequency data		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(1)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Channel Carrier Frequency Separation: 400.80 kHz		



Test Photographs
20 dB Bandwidth



Test Setup



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**FCC Section 15.247(a)(1)
20 dB Bandwidth
Test Data**

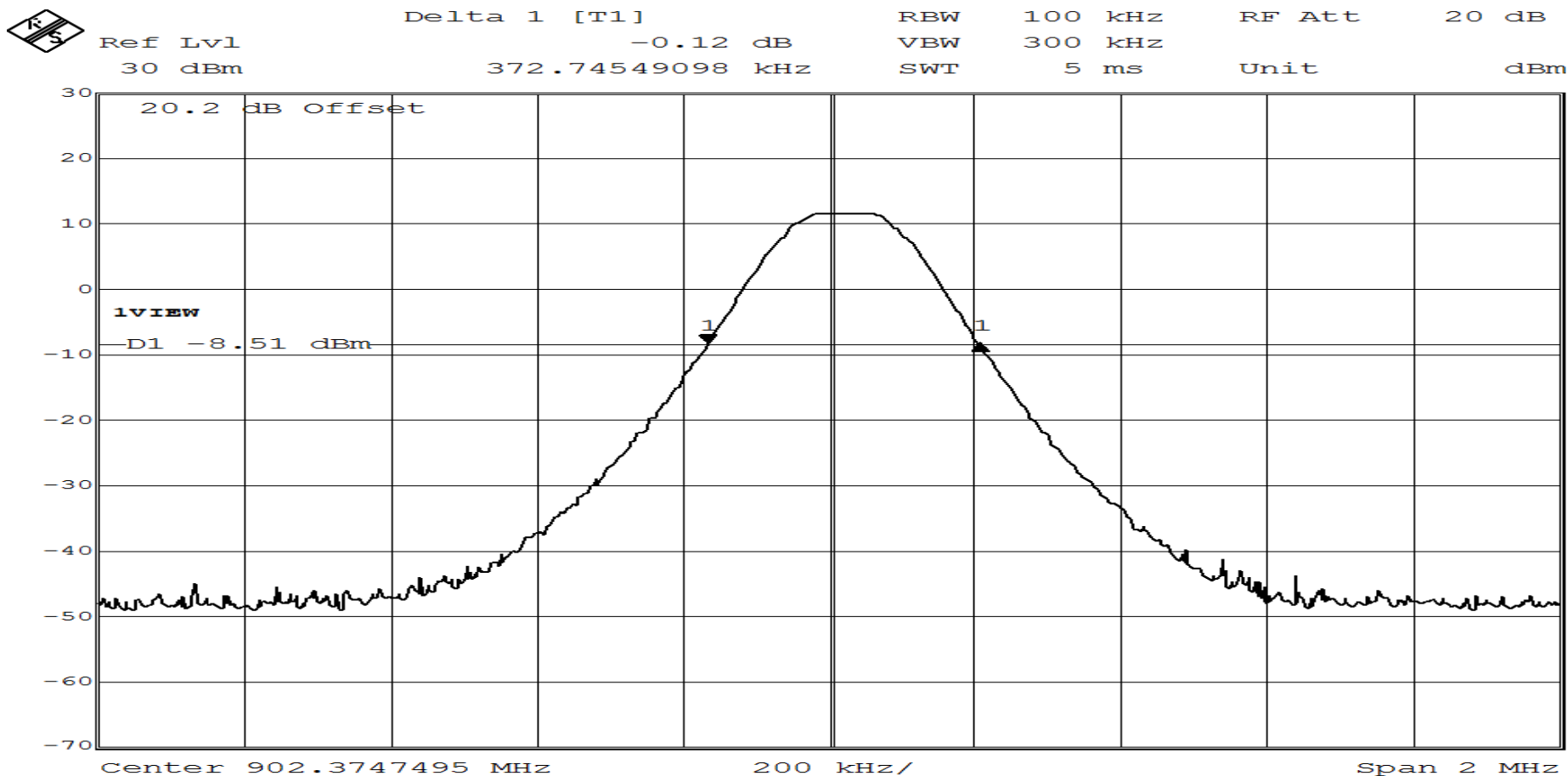


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Report No. R-6151N-1

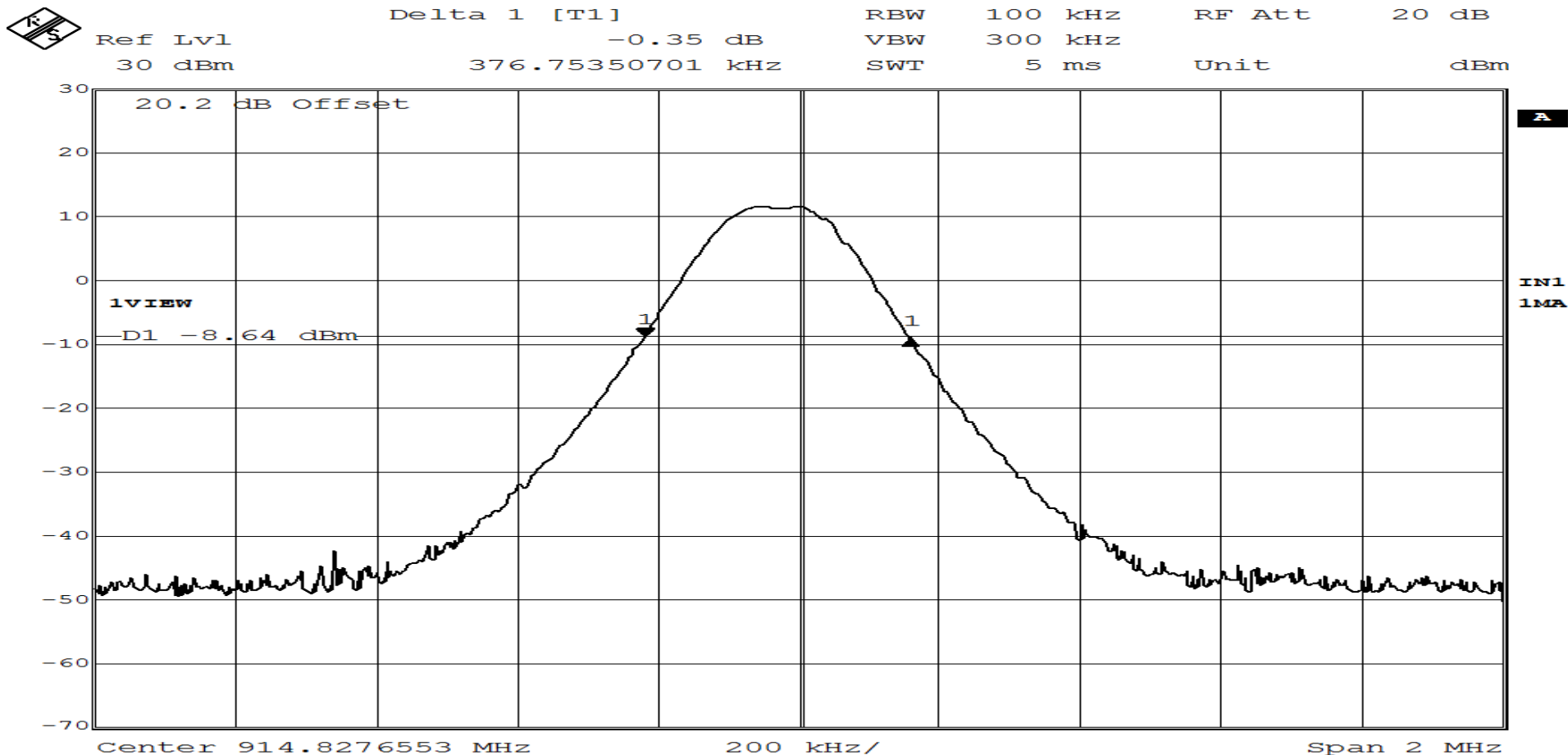
RETLIF TESTING LABORATORIES

Test Method:	20dB Bandwidth		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(1)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0%		
Notes	Transmit Frequency: 902.37 MHz 20dB Bandwidth: 372.75 kHz		



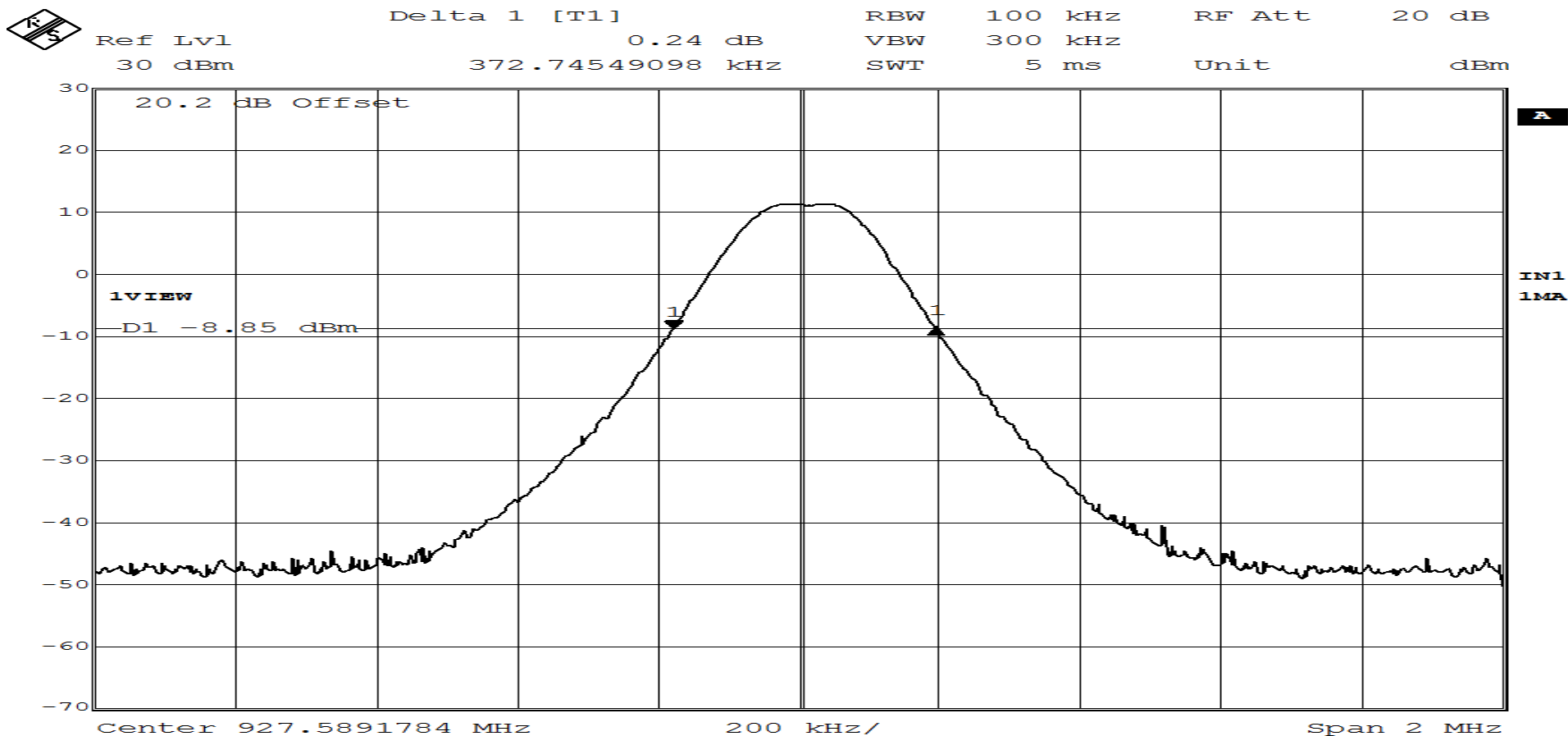
RETLIF TESTING LABORATORIES

Test Method:	20dB Bandwidth		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(1)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0%		
Notes	Transmit Frequency: 914.82 MHz 20dB Bandwidth: 376.75 kHz		

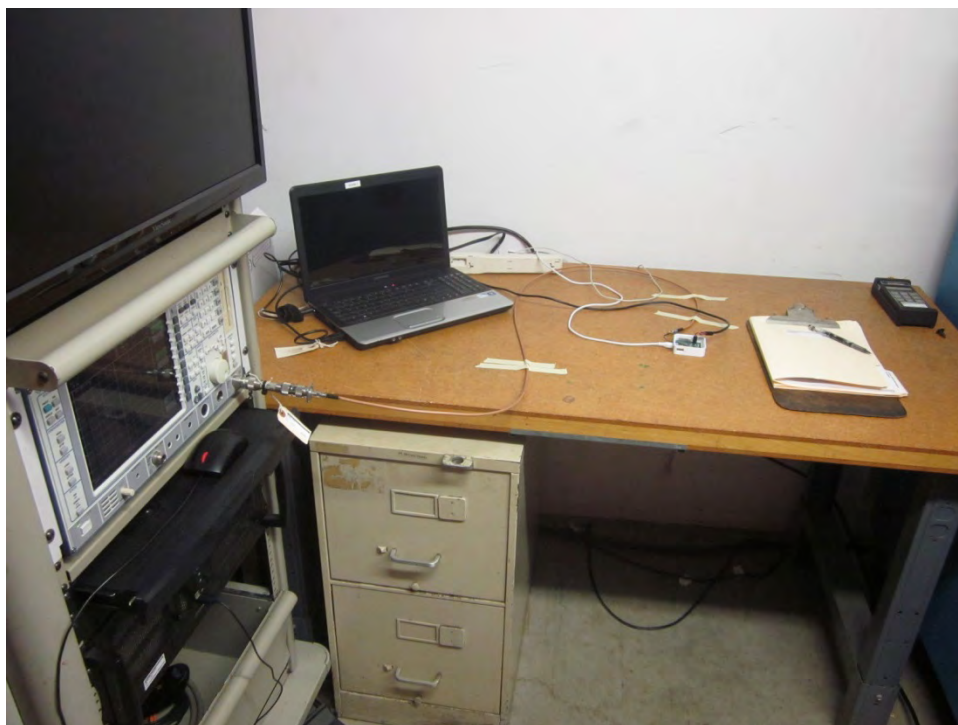


RETLIF TESTING LABORATORIES

Test Method:	20dB Bandwidth		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(1)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Transmit Frequency: 927.59 MHz 20dB Bandwidth: 372.75 kHz		



Test Photographs
Number of Channels and Occupancy Time



Test Setup



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**FCC Section 15.247 (a)(1)(i)
Number of Channels and Occupancy Time
Test Data**



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**Number of Hopping Frequencies
Test Data**

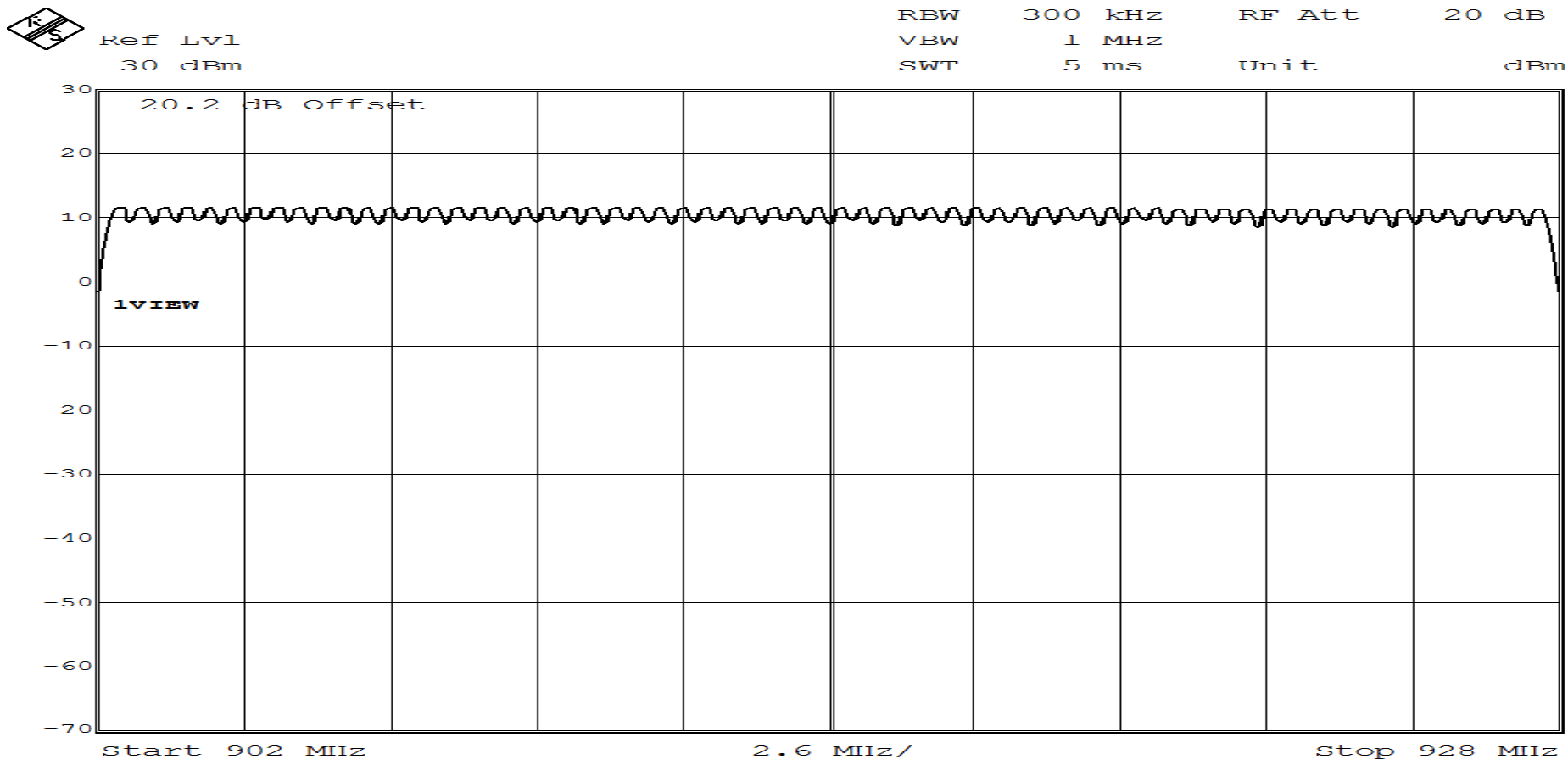


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RETLIF TESTING LABORATORIES

Test Method:	Number of Hopping Frequencies		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Part Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting hopping frequency data		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(1)(i)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Number of Hopping Frequencies: 64		



**Time of Occupancy
Test Data**

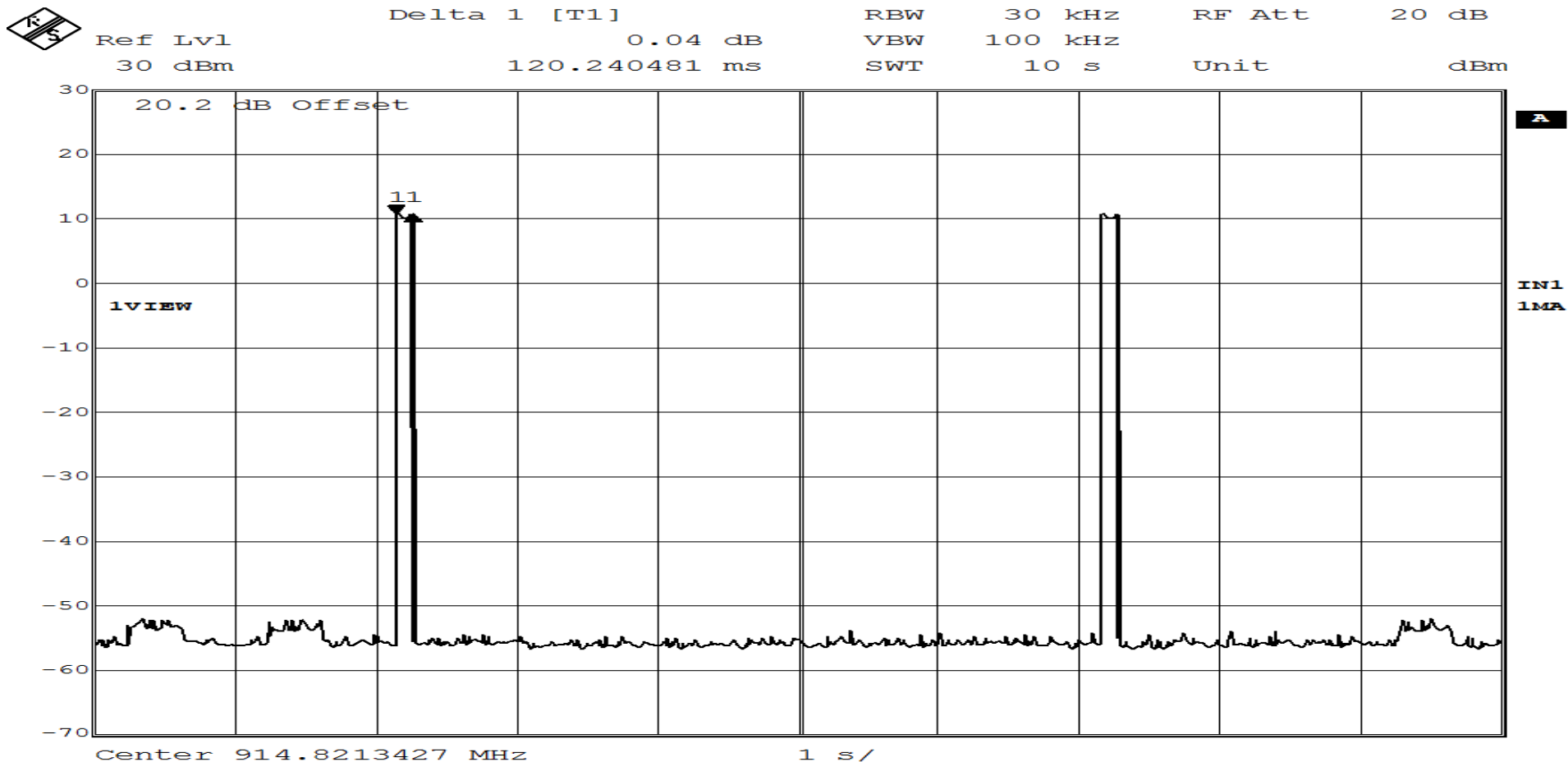


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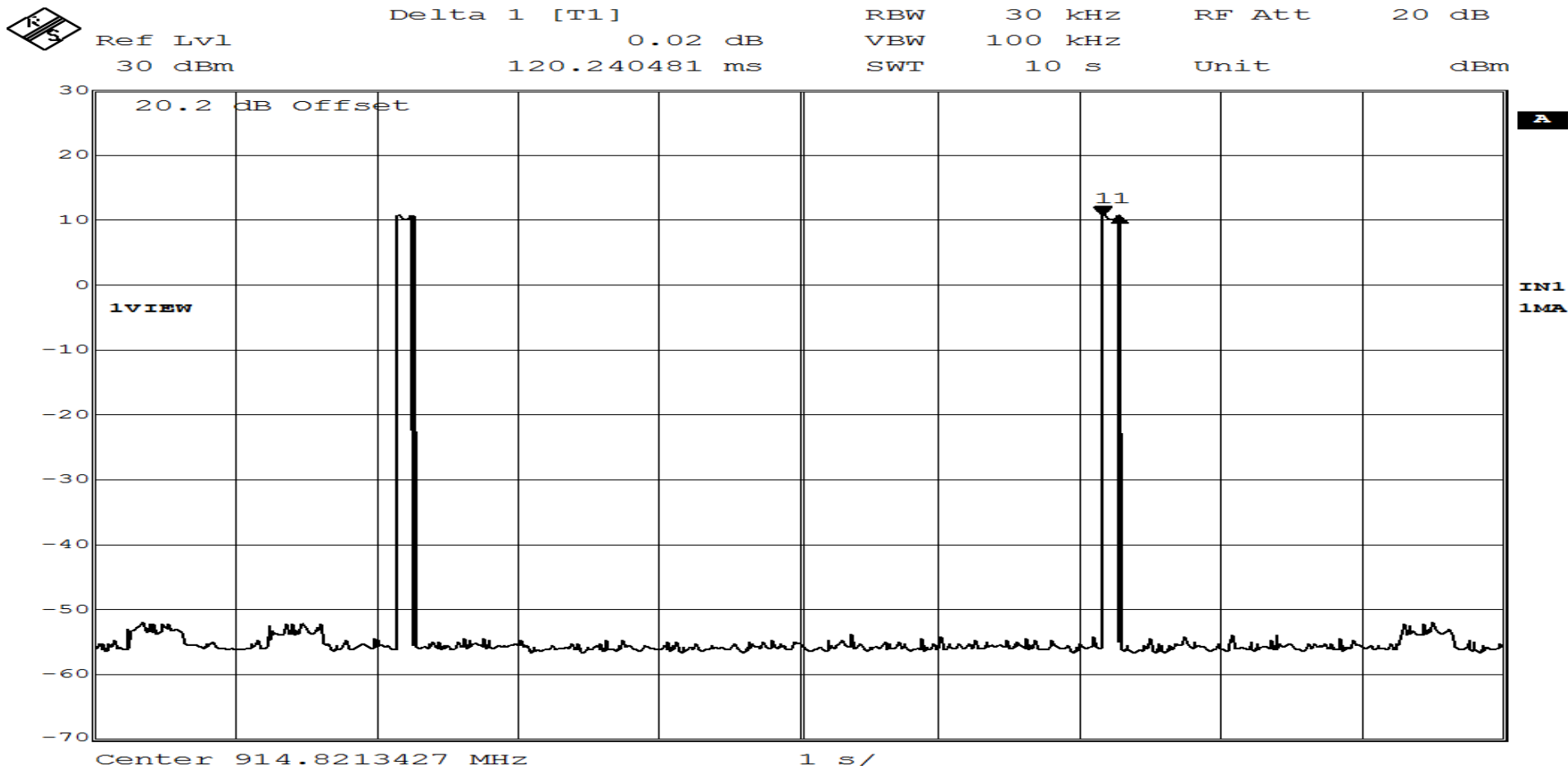
RETLIF TESTING LABORATORIES

Test Method:	Time of Occupancy		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting hopping frequency data		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(1)(i)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Test Frequency: 914.76 MHz Pulse Width: 120.240 ms		



RETLIF TESTING LABORATORIES

Test Method:	Time of Occupancy		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting hopping frequency data		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(1)(i)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Test Frequency: 914.76 MHz Pulse Width: 120.240 ms		



Test Photographs
Peak Conducted Output Power



Test Setup



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**FCC Section 15.247 (a)(1)
Peak Conducted Output Power
Test Data**

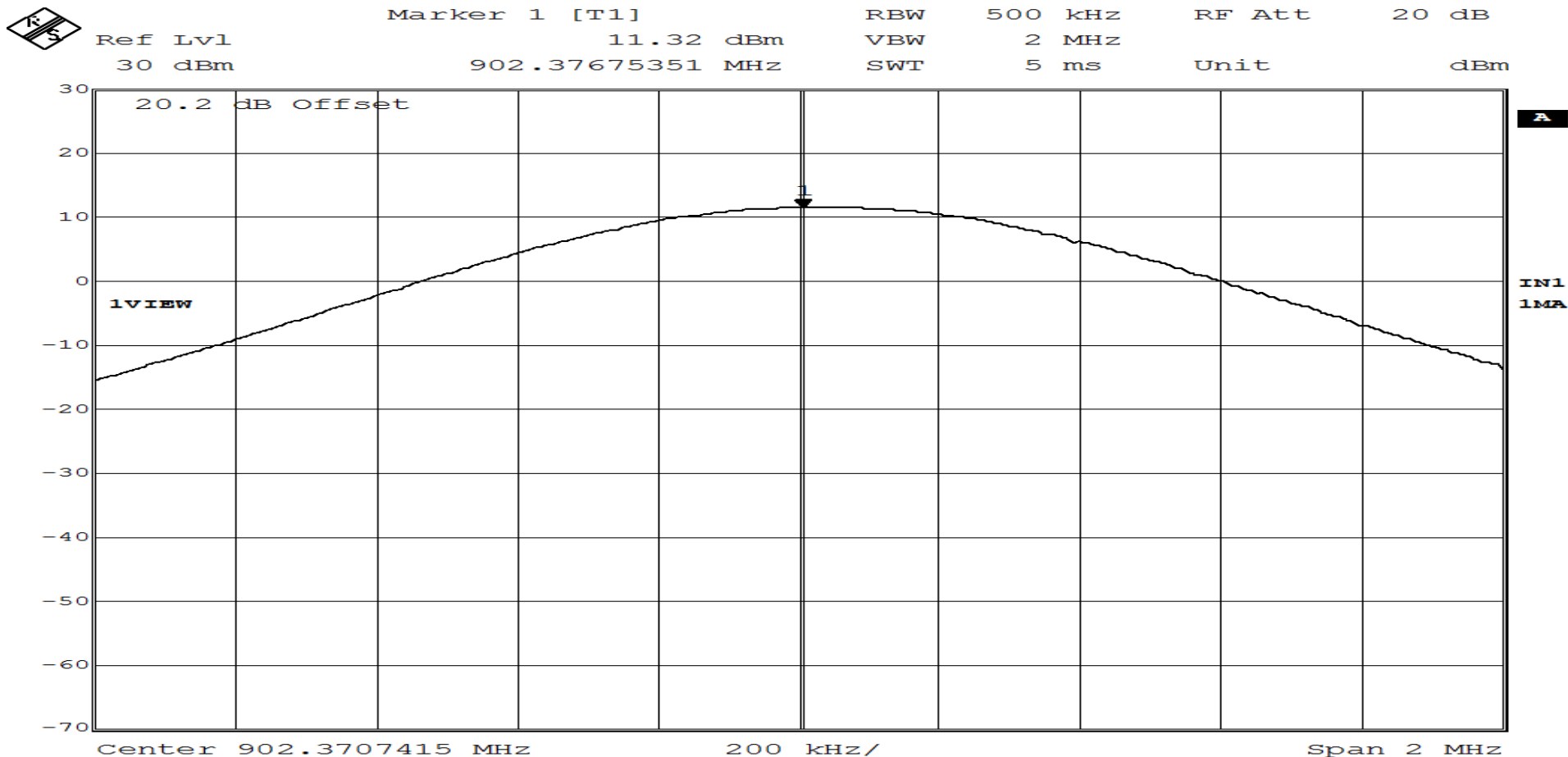


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Report No. R-6151N-1

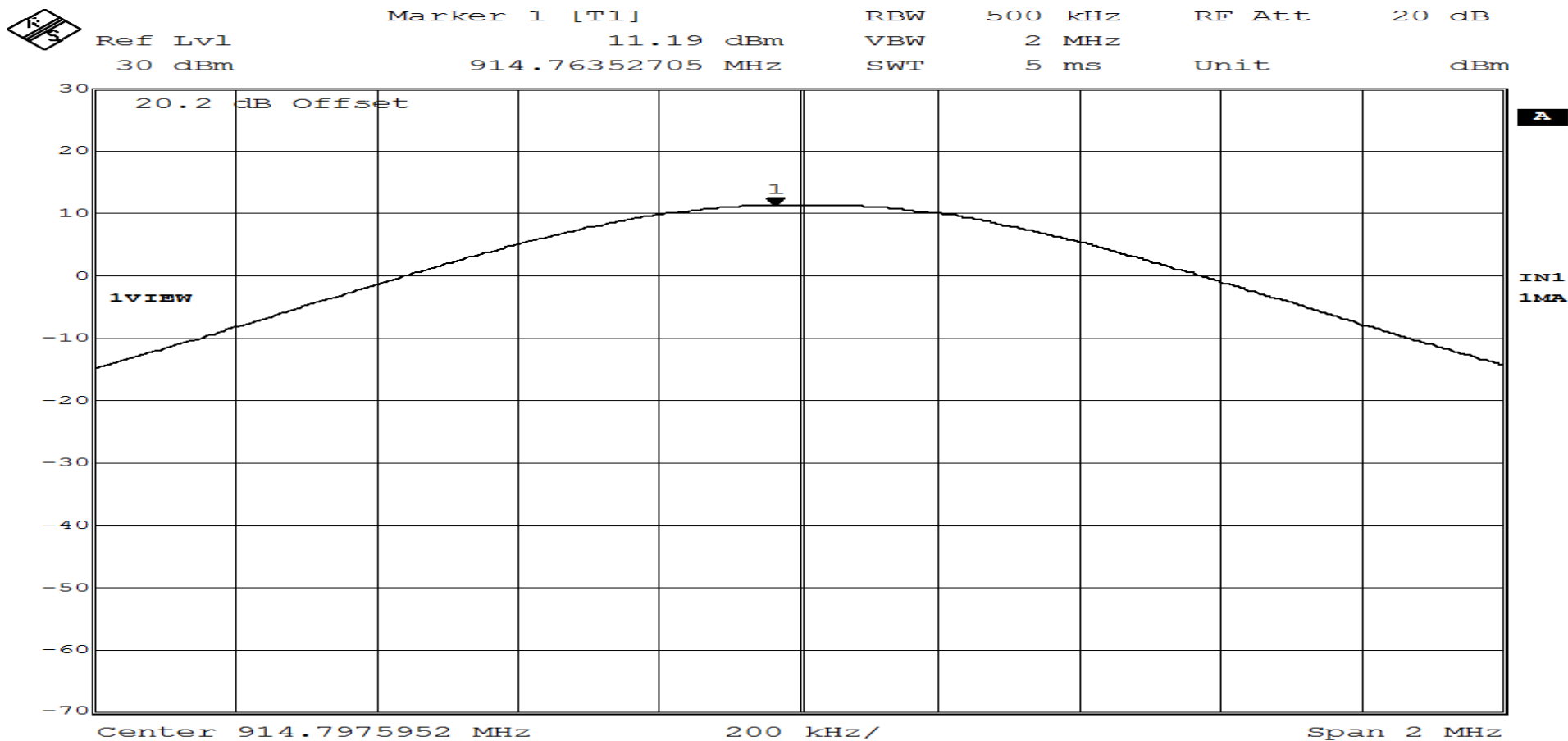
RETLIF TESTING LABORATORIES

Test Method	Peak Power Output		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (b)(3)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Transmit Frequency: 902.37 MHz Peak Power Output: 11.32 dBm (13.55189 mW)		



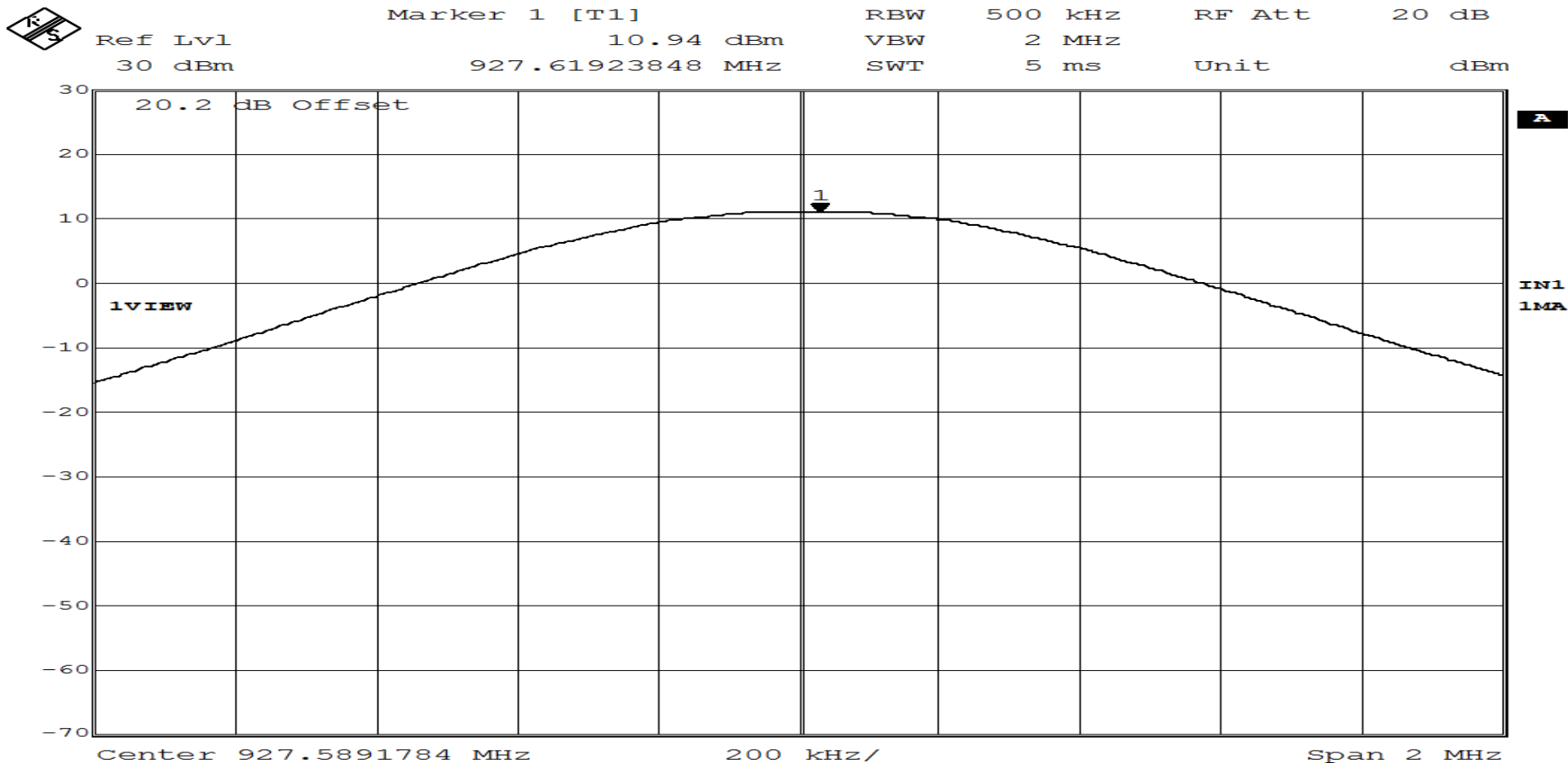
RETLIF TESTING LABORATORIES

Test Method	Peak Power Output		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM002014	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (b)(3)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Transmit Frequency: 914.76 MHz Peak Power Output: 11.19 dBm (13.15225 mW)		



RETLIF TESTING LABORATORIES

Test Method	Peak Power Output		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM002014	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (b)(3)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 927.59 MHz Peak Power Output: 10.94 dBm (12.41652 mW)		



Test Photographs
Conducted Spurious Emissions, 30 MHz to 10 GHz



Test Setup



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**Unwanted Emissions into Non-Restricted Frequency Bands
25 MHz to 10 GHz
Conducted Spurious Emissions Test Data**

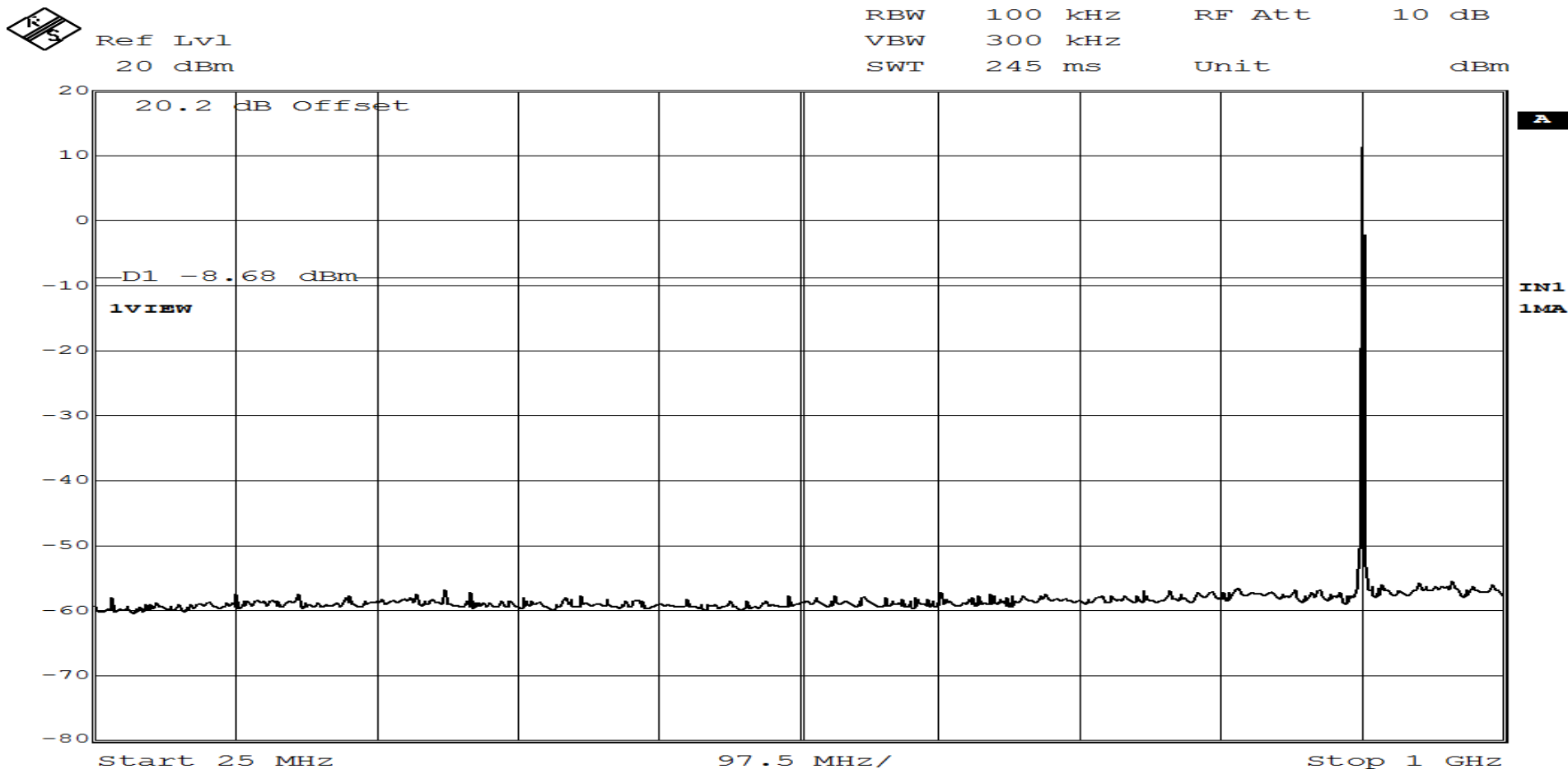


Retlif Testing Laboratories

Report No. R-6151N-1

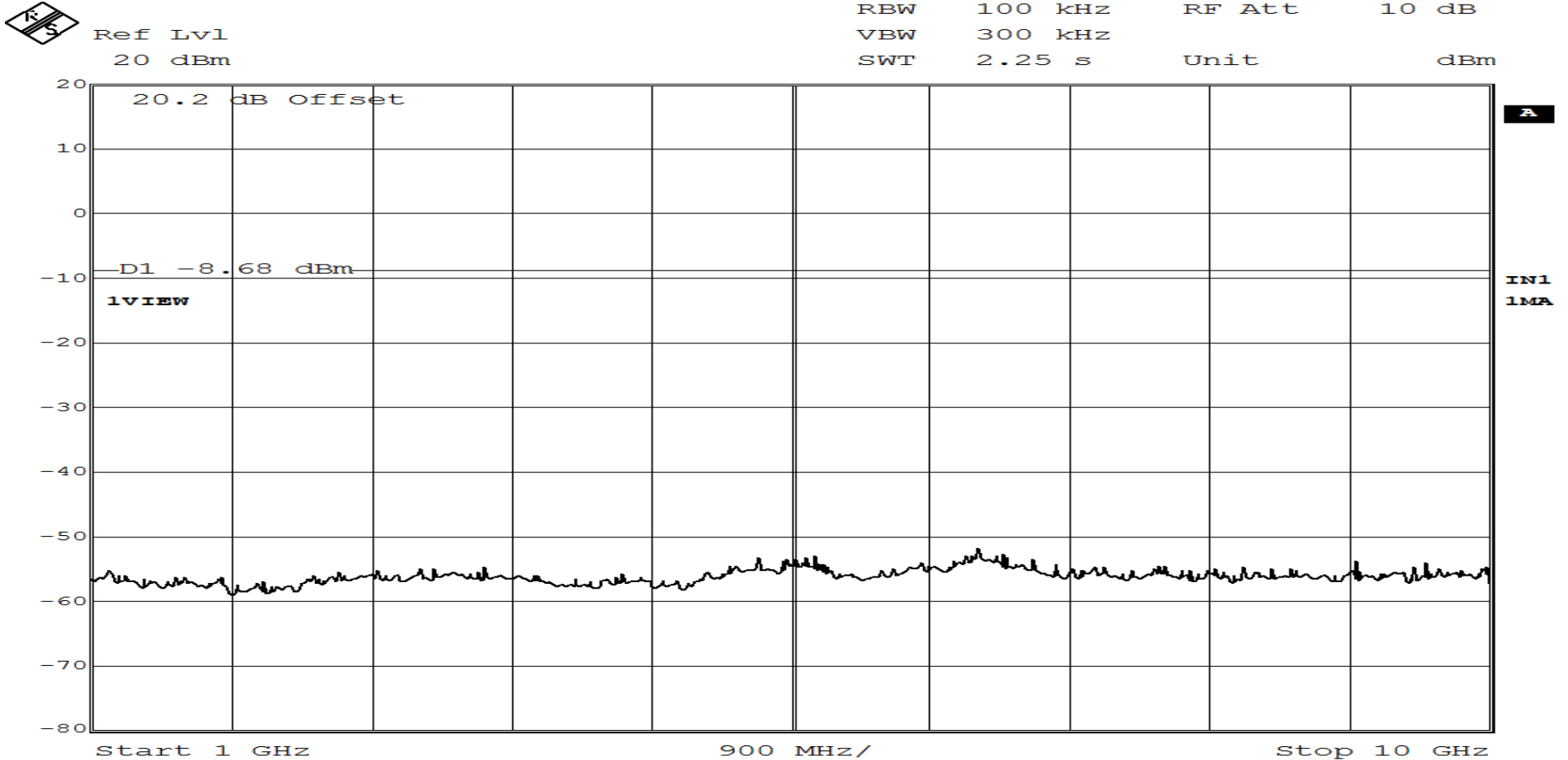
RETLIF TESTING LABORATORIES

Test Method	Unwanted Emissions into Non-Restricted Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Transmit Frequency: 902.37 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		



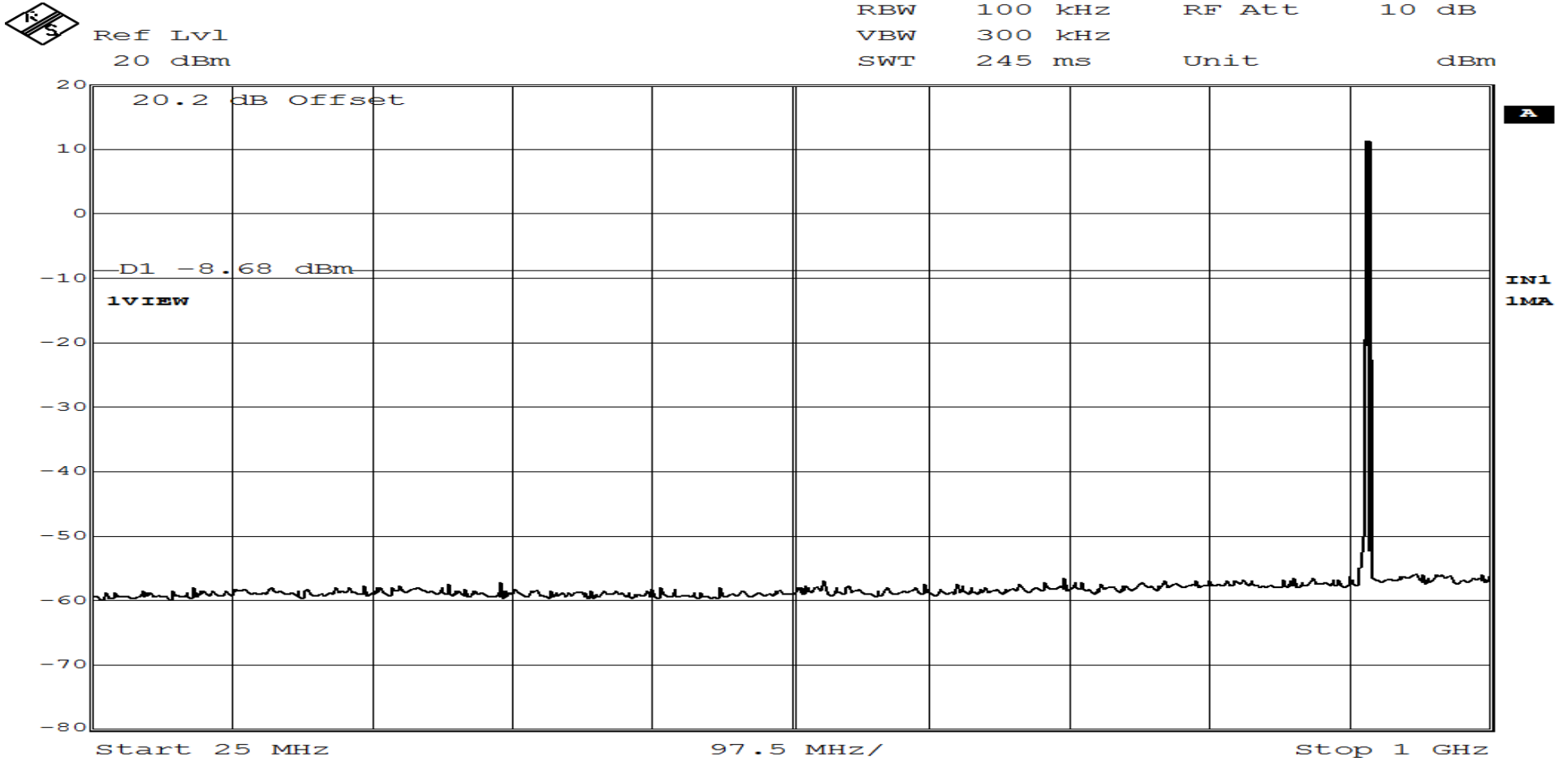
RETLIF TESTING LABORATORIES

Test Method	Unwanted Emissions into Non-Restricted Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Transmit Frequency: 902.37 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		



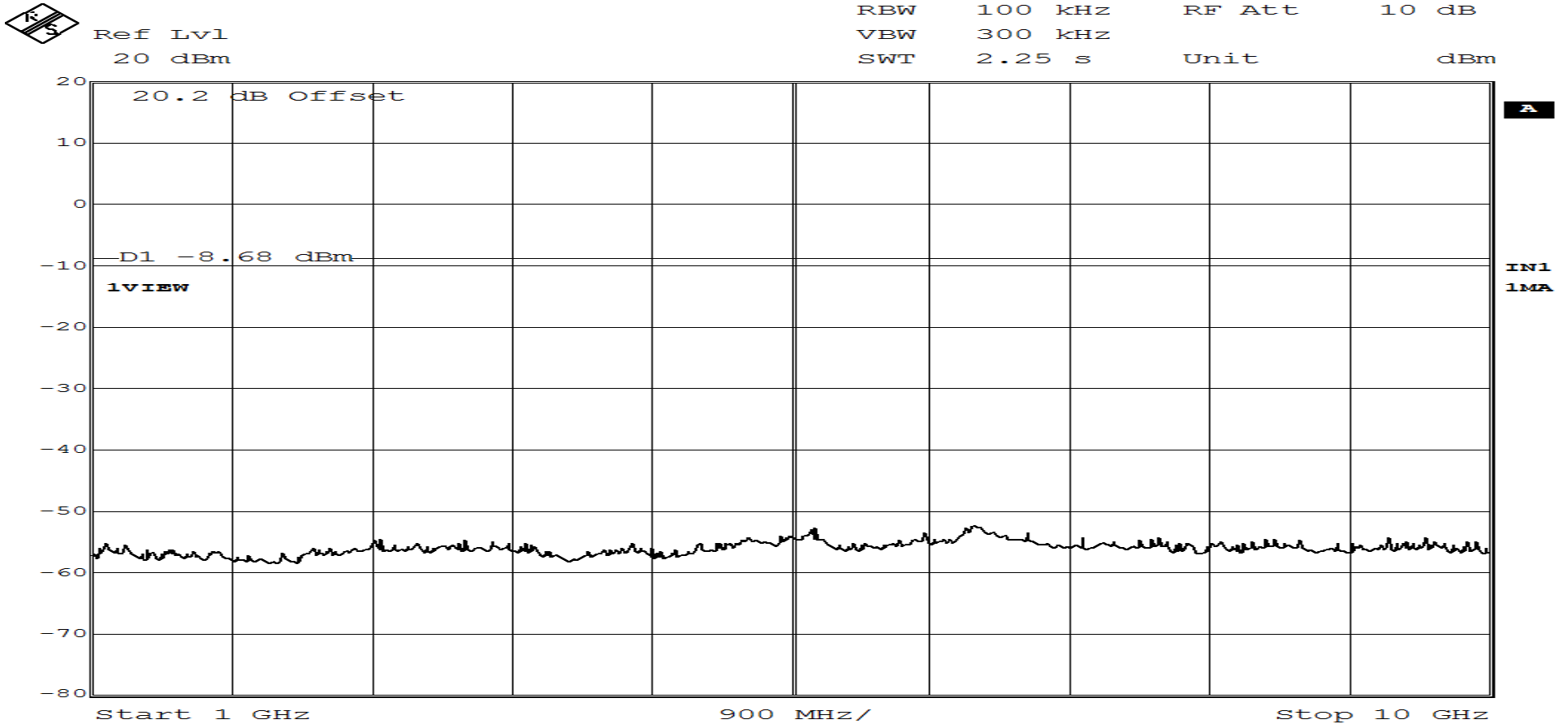
RETLIF TESTING LABORATORIES

Test Method	Unwanted Emissions into Non-Restricted Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Transmit Frequency: 914 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		



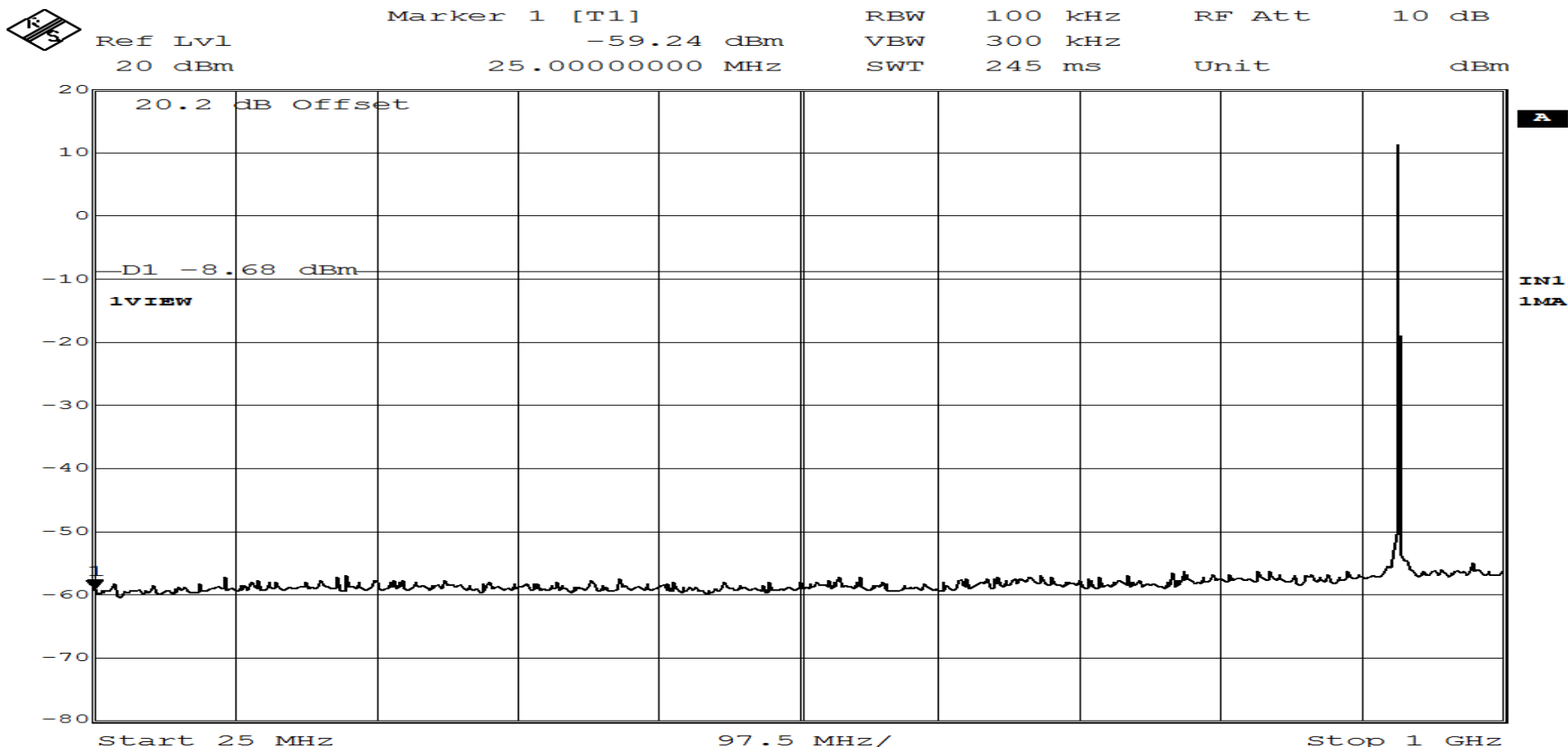
RETLIF TESTING LABORATORIES

Test Method	Unwanted Emissions into Non-Restricted Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Transmit Frequency: 914 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		



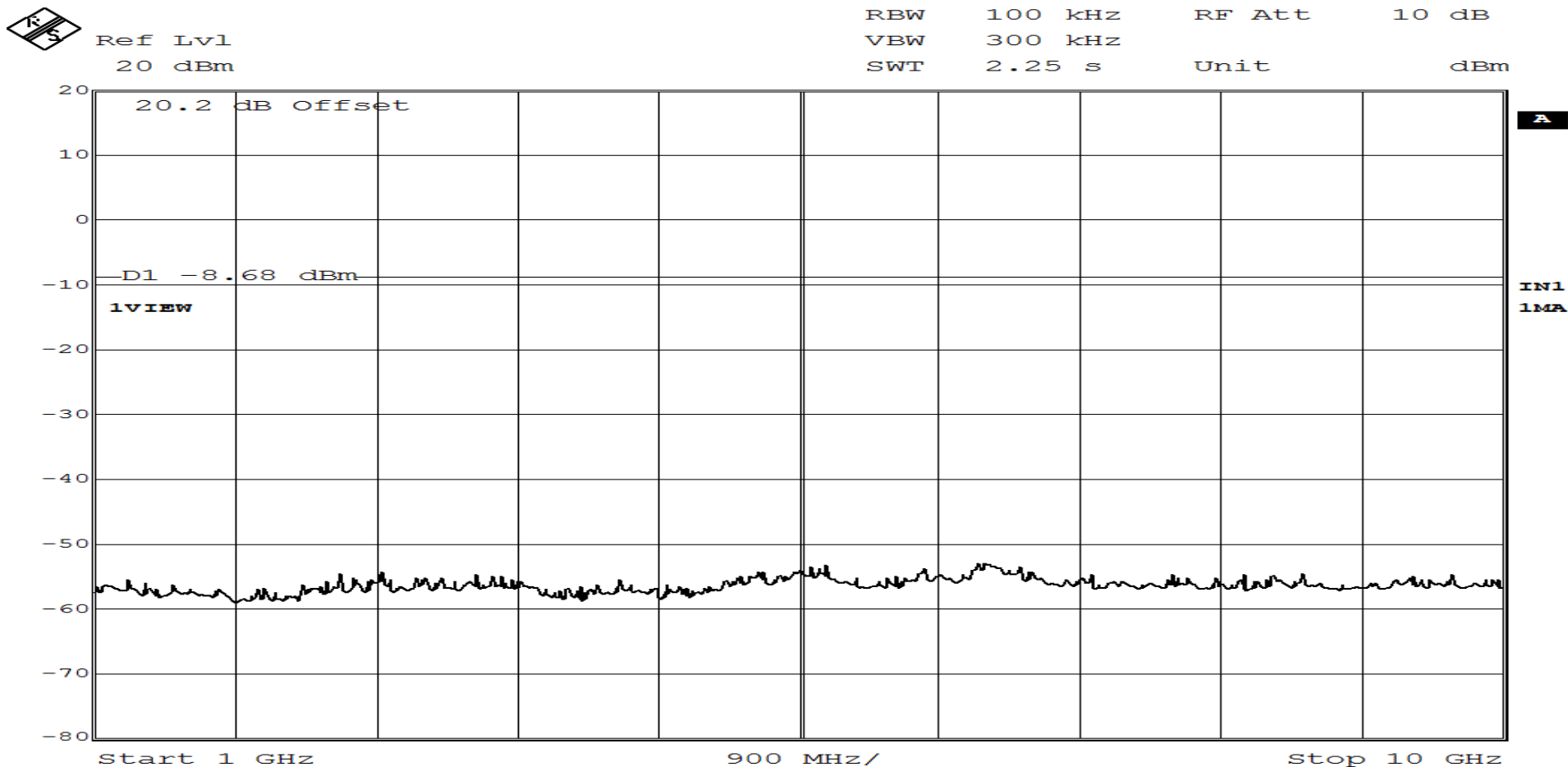
RETLIF TESTING LABORATORIES

Test Method	Unwanted Emissions into Non-Restricted Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Transmit Frequency: 927.59 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		



RETLIF TESTING LABORATORIES

Test Method	Unwanted Emissions into Non-Restricted Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0 %		
Notes	Transmit Frequency: 927.59 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		



**Band Edge Emissions Conducted
Test Data**

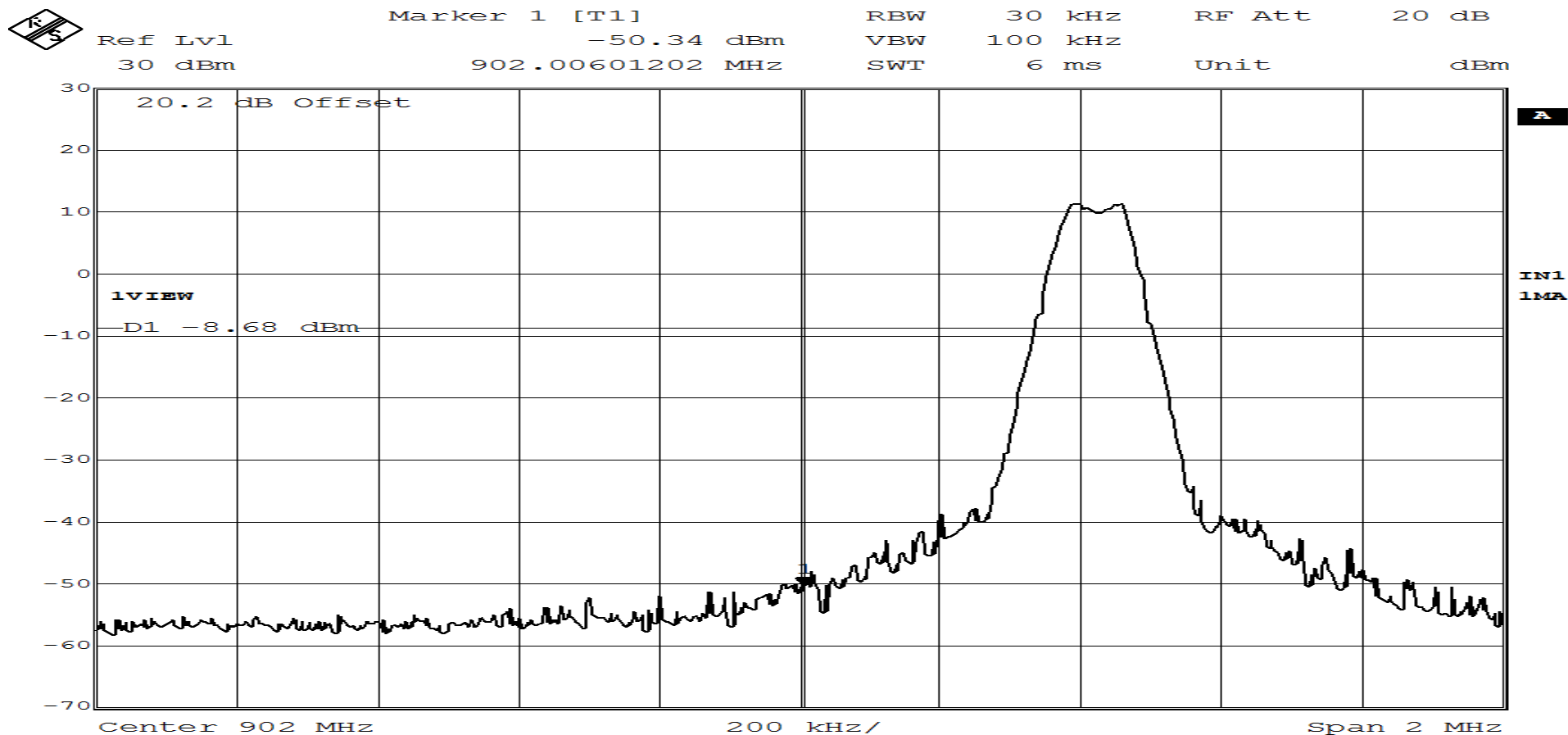


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Report No. R-6151N-1

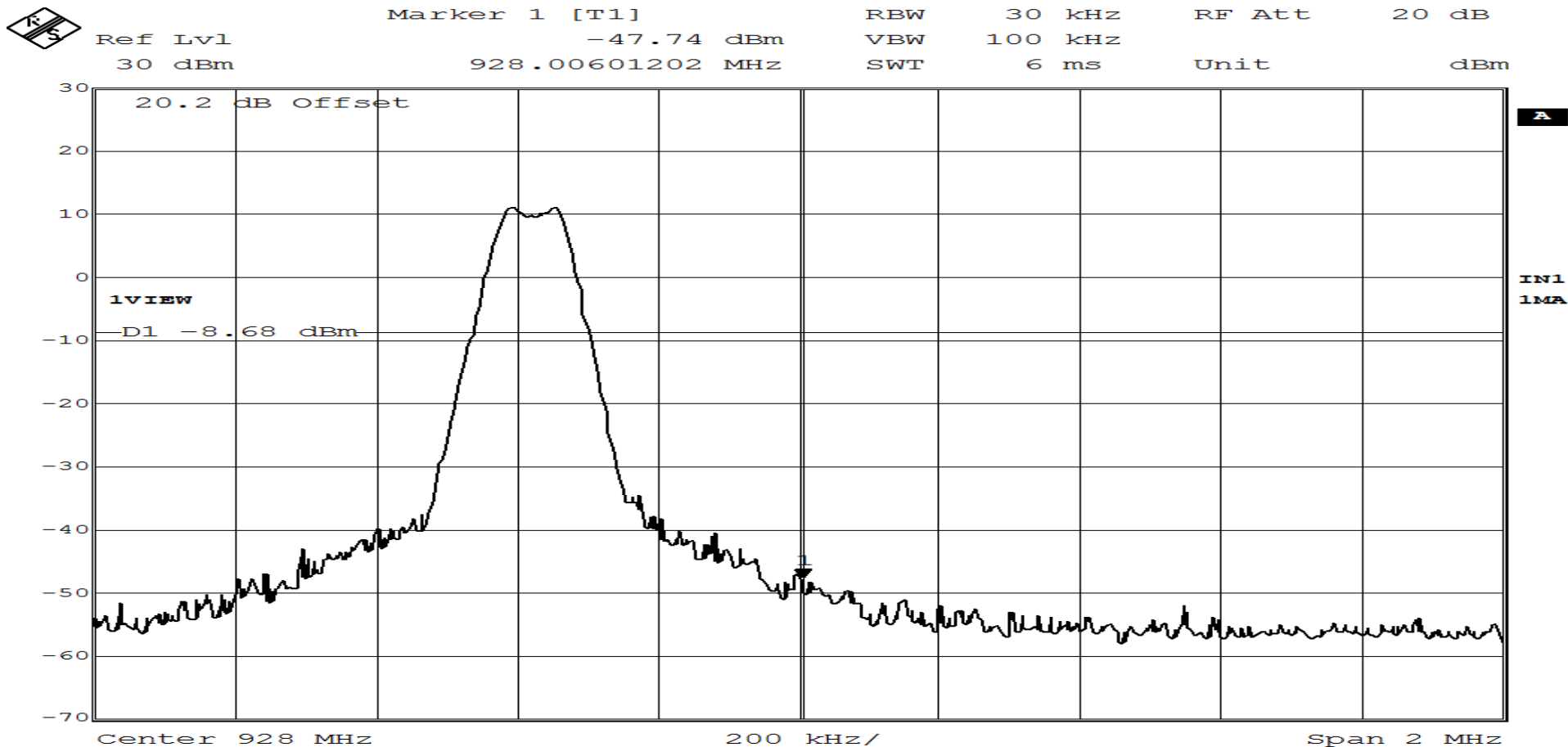
RETLIF TESTING LABORATORIES

Test Method	Band Edge Emissions Conducted		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: %		
Notes	Transmit Frequency: 902.37 MHz		

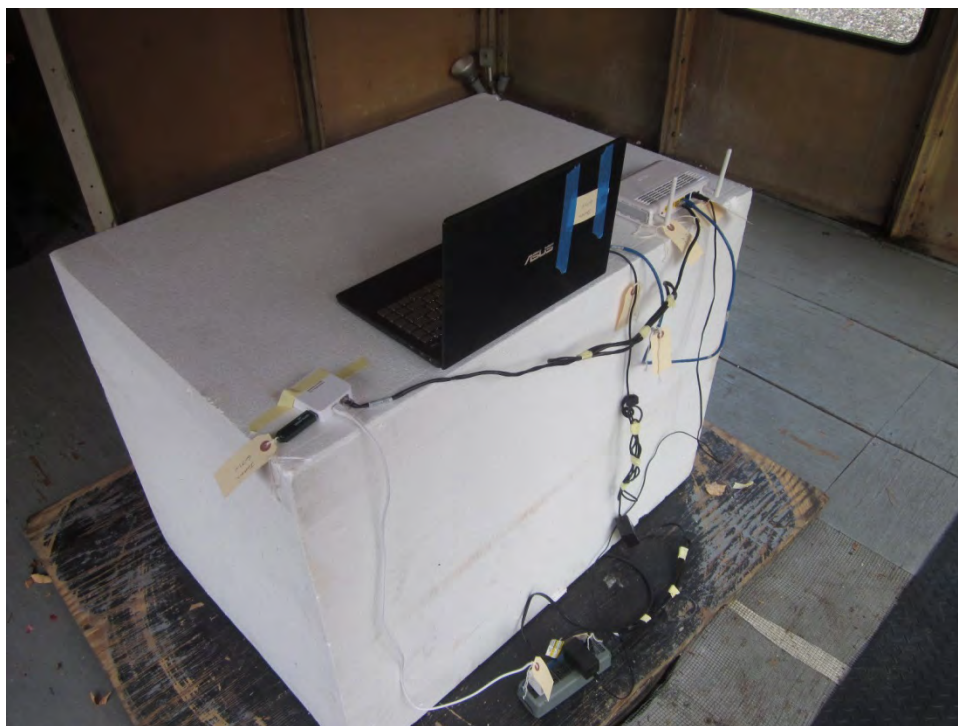


RETLIF TESTING LABORATORIES

Test Method	Band Edge Emissions Conducted		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600004
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 14 th , 2016
Climatic Conditions	Temp: 20.0 °C Relative Humidity: 28.0%		
Notes	Transmit Frequency: 927.59 MHz		



Test Photographs
Field Strength of Spurious Emissions



Test Configuration, 80 cm



Retlif Testing Laboratories

Report No. R-6151N-1

Test Photographs

Field Strength of Spurious Emissions



Horizontal Antenna Polarization, 30 MHz – 200 MHz, 80 cm



Vertical Antenna Polarization, 30 MHz – 200 MHz, 80 cm



Retlif Testing Laboratories

Report No. R-6151N-1

Test Photographs

Field Strength of Spurious Emissions



Horizontal Antenna Polarization, 200 MHz – 1 GHz, 80 cm



Vertical Antenna Polarization, 200 MHz – 1 GHz, 80 cm



Retlif Testing Laboratories

Report No. R-6151N-1

Test Photographs

Field Strength of Spurious Emissions



Horizontal Antenna Polarization, 1 GHz – 10 GHz, 150 cm



Vertical Antenna Polarization, 1 GHz – 10 GHz, 150 cm



Retlif Testing Laboratories

Report No. R-6151N-1

**FCC Section 15.247 (a) / 15.209(a)
Field Strength of Spurious Emissions
Test Data**



Retlif Testing Laboratories

Report No. R-6151N-1

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-1	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting hopping frequency data at 902.37 MHz, 914.76 MHz and 927.59 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
37.50	-	-	-	-			-	100.00
	38.00	22.10	14.20	36.30	*		65.31	I
38.25	-	-	-	-			-	100.00
73.00	-	-	-	-			-	100.00
	74.00	22.84	8.36	31.20	*		36.31	I
74.60	-	-	-	-			-	100.00
74.80	-	-	-	-			-	100.00
	75.00	19.54	8.36	27.90	*		24.83	
75.20	-	-	-	-			-	100.00
108.00	-	-	-	-			-	150.00
	115.00	12.78	10.02	22.80	*		13.80	
	-	-	-	-			-	
121.94	-	-	-	-			-	150.00
123.00	-	-	-	-			-	150.00
	130.00	7.74	15.96	23.70	*		15.31	
	-	-	-	-			-	
138.00	-	-	-	-			-	150.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.
 * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 1 of 7



Retlif Testing Laboratories

Report No. R-6151N-1

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-1	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting hopping frequency data at 902.37 MHz, 914.76 MHz and 927.59 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
149.90	-	-	-	-			-	150.00
	150.00	15.43	11.17	26.60	*		22.13	
150.05	-	-	-	-			-	150.00
156.52	-	-	-	-			-	150.00
	156.52	13.82	12.08	25.90	*		19.72	
156.52	-	-	-	-			-	150.00
156.70	-	-	-	-			-	150.00
	156.80	12.08	12.12	24.20	*		16.22	
156.90	-	-	-	-			-	150.00
162.01	-	-	-	-			-	150.00
	165.00	9.92	12.68	22.60	*		13.49	
167.17	-	-	-	-			-	150.00
167.72	-	-	-	-			-	150.00
	170.00	9.60	12.80	22.40	*		13.18	
173.20	-	-	-	-			-	150.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.

* This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 2 of 7



Retlif Testing Laboratories

Report No. R-6151N-1

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-1	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting hopping frequency data at 902.37 MHz, 914.76 MHz and 927.59 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

EST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
240.00	-	-	-	-			-	200.00
	266.46	12.85	16.85	29.70			30.55	
285.00	-	-	-	-			-	200.00
322.80	-	-	-	-			-	200.00
	330.00	7.89	18.91	26.80	*		21.88	
335.40	-	-	-	-			-	200.00
399.90	-	-	-	-			-	200.00
	405.00	2.11	21.49	23.60	*		15.14	
410.00	-	-	-	-			-	200.00
608.00	-	-	-	-			-	200.00
	611.00	-1.84	27.34	25.50	*		18.84	
614.00	-	-	-	-			-	200.00
960.00	-	-	-	-			-	500.00
	975.00	0.80	32.10	32.90	*		44.16	
1240.00	-	-	-	-			-	500.00
1300.00	-	-	-	-			-	500.00
	1350.00	33.67	-5.55	28.12	*		25.47	
1427.00	-	-	-	-			-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.
 * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 3 of 7



Retlif Testing Laboratories

Report No. R-6151N-1

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

EMISSIONS TEST DATA SHEET		
Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-1	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting hopping frequency data at 902.37 MHz, 914.76 MHz and 927.59 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	
Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
1435.00	-	-	-	-			-	500.00
	1500.00	32.21	-4.81	27.40	*		23.44	
1646.50	-	-	-	-			-	500.00
1660.00	-	-	-	-			-	500.00
	1680.00	31.41	-4.01	27.40	*		23.44	
1710.00	-	-	-	-			-	500.00
1718.80	-	-	-	-			-	500.00
	1720.00	32.08	-3.84	28.24	*		25.82	
1722.20	-	-	-	-			-	500.00
2200.00	-	-	-	-			-	500.00
	2250.00	32.14	-2.07	30.07	*		31.88	
2300.00	-	-	-	-			-	500.00
2310.00	-	-	-	-			-	500.00
	2360.00	31.69	-1.79	29.90	*		31.26	
2390.00	-	-	-	-			-	500.00
2483.50	-	-	-	-			-	500.00
	2490.00	31.91	-1.47	30.44	*		33.27	
2500.00	-	-	-	-			-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.
 * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 4 of 7



Retlif Testing Laboratories

Report No. R-6151N-1

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-1	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting hopping frequency data at 902.37 MHz, 914.76 MHz and 927.59 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
2690.00	-	-	-	-			-	500.00
	2706.00	37.91	-0.97	36.94	*		70.31	
	2745.00	38.09	-0.89	37.20	*		72.44	
	2781.00	38.19	-0.81	37.38	*		73.96	
2900.00	-	-	-	-			-	500.00
3260.00	-	-	-	-			-	500.00
	3263.00	30.75	0.11	30.86	*		34.91	
3267.00	-	-	-	-			-	500.00
3332.00	-	-	-	-			-	500.00
	3336.00	30.80	0.23	31.03	*		35.60	
3339.00	-	-	-	-			-	500.00
3345.00	-	-	-	-			-	500.00
	3350.00	31.45	0.26	31.71	*		38.50	
3358.00	-	-	-	-			-	500.00
3600.00	-	-	-	-			-	500.00
	3608.00	38.15	0.67	38.82	*		87.30	
	3660.00	38.45	0.75	39.20	*		91.20	
	3708.00	38.32	0.83	39.15	*		90.68	

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.

* This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 5 of 7



Retlif Testing Laboratories

Report No. R-6151N-1

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-1	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting hopping frequency data at 902.37 MHz, 914.76 MHz and 927.59 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
	-	-	-	-			-	
4400.00	-	-	-	-			-	500.00
4500.00	-	-	-	-			-	500.00
	4510.00	40.11	1.71	41.82	*		123.31	
	4575.00	40.05	1.76	42.41	*		131.98	
	4635.00	40.35	1.81	42.16	*		128.23	
	-	-	-	-			-	
5150.00	-	-	-	-			-	500.00
5350.00	-	-	-	-			-	500.00
	5400.00	29.72	2.43	32.15	*		40.50	
5460.00	-	-	-	-			-	500.00
7250.00	-	-	-	-			-	500.00
	7500.00	30.58	3.85	34.43	*		52.66	
7750.00	-	-	-	-			-	500.00
8025.00	-	-	-	-			-	500.00
	8118.00	34.08	4.19	38.27	*		81.94	
	8235.00	34.50	4.25	38.75	*		86.60	
	8343.00	34.79	4.26	39.05	*		89.64	
	-	-	-	-			-	
8500.00	-	-	-	-			-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.
 * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 6 of 7



Retlif Testing Laboratories

Report No. R-6151N-1

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-1	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting hopping frequency data at 902.37 MHz, 914.76 MHz and 927.59 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

[illegible]

* This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

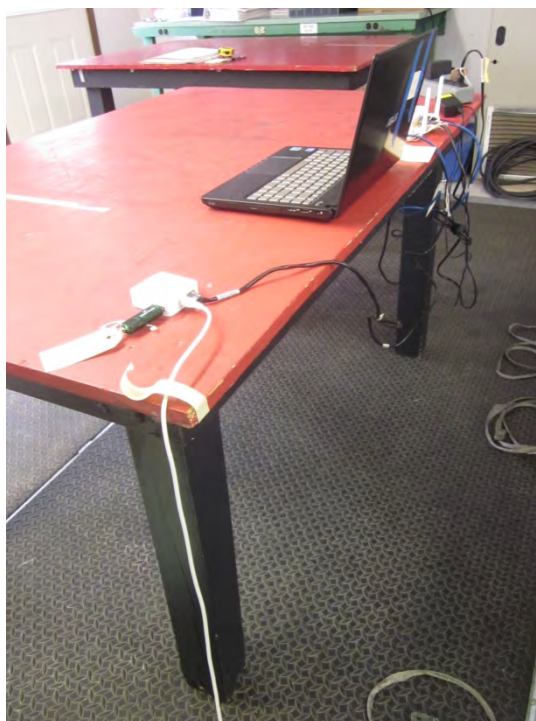
Data Sheet 7 of 7



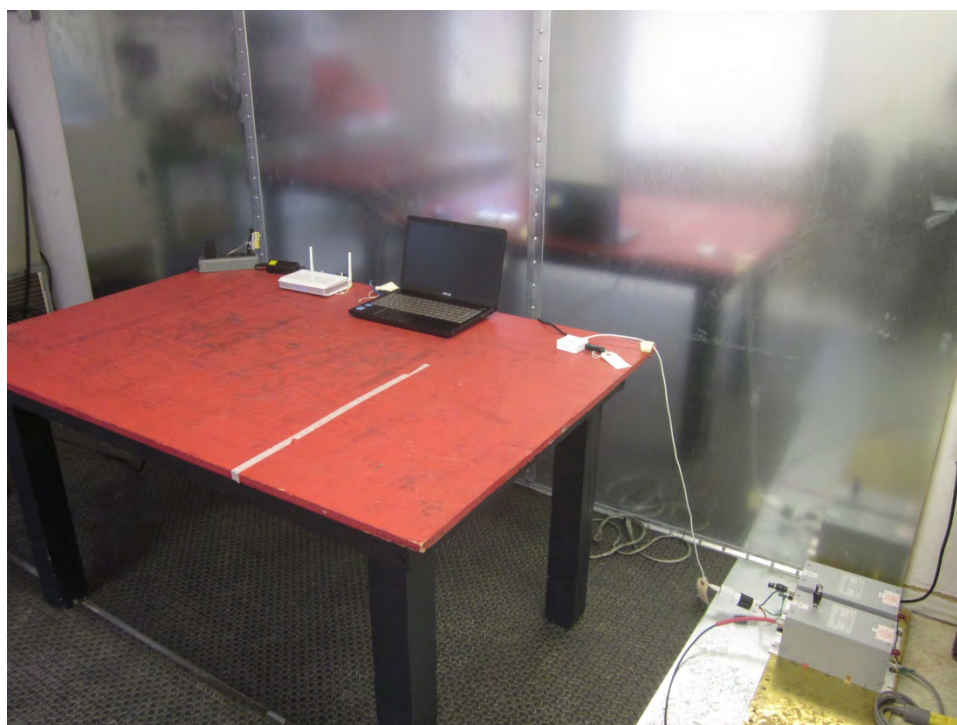
Retlif Testing Laboratories

Report No. R-6151N-1

Test Photographs AC Line Conducted Emissions



Test Configuration



Test Setup



Retlif Testing Laboratories

Report No. R-6151N-1

**FCC Section 15.207 (a)
AC Line Conducted Emissions
Test Data**

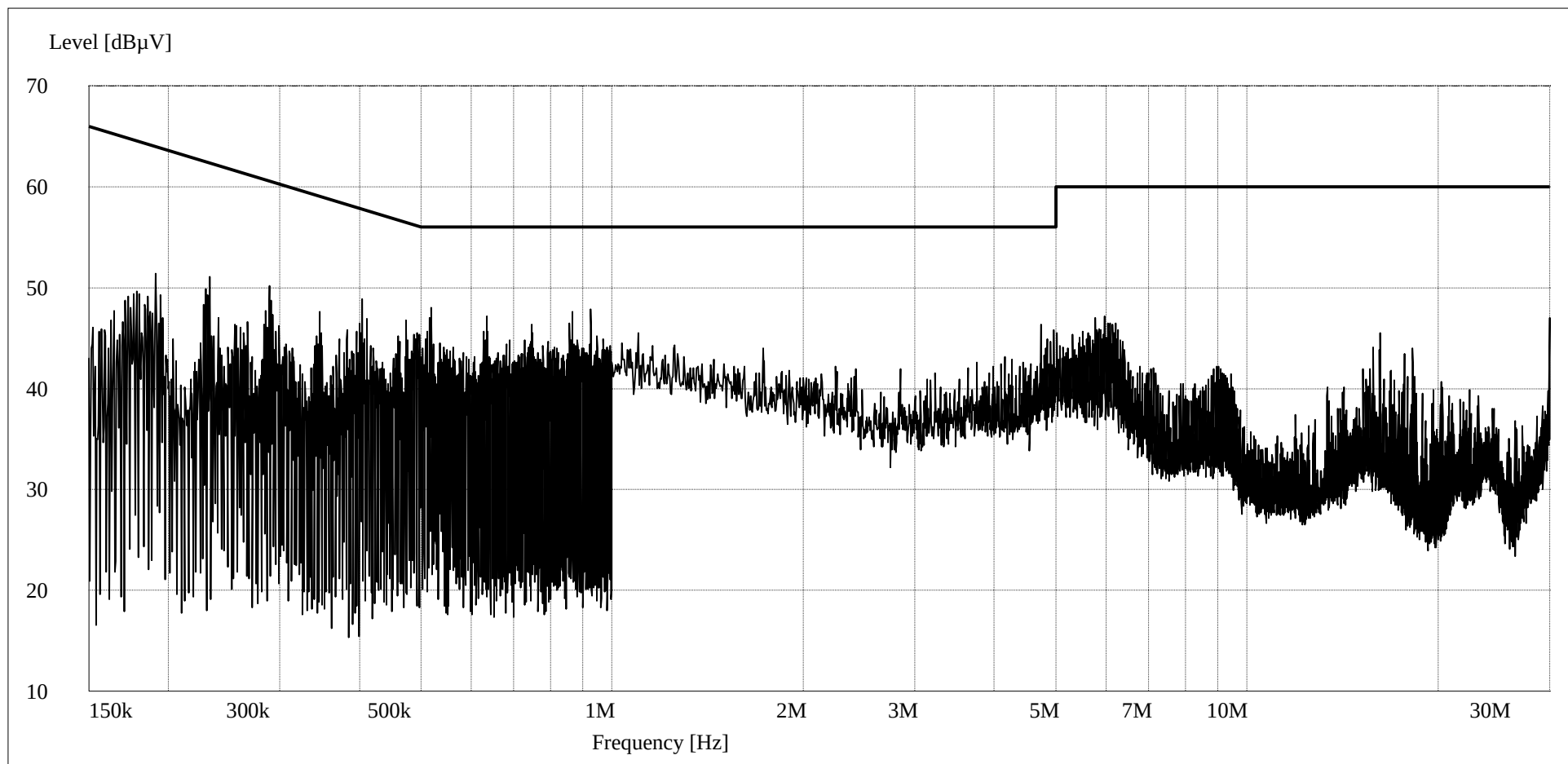


Retlif Testing Laboratories

Report No. R-6151N-1

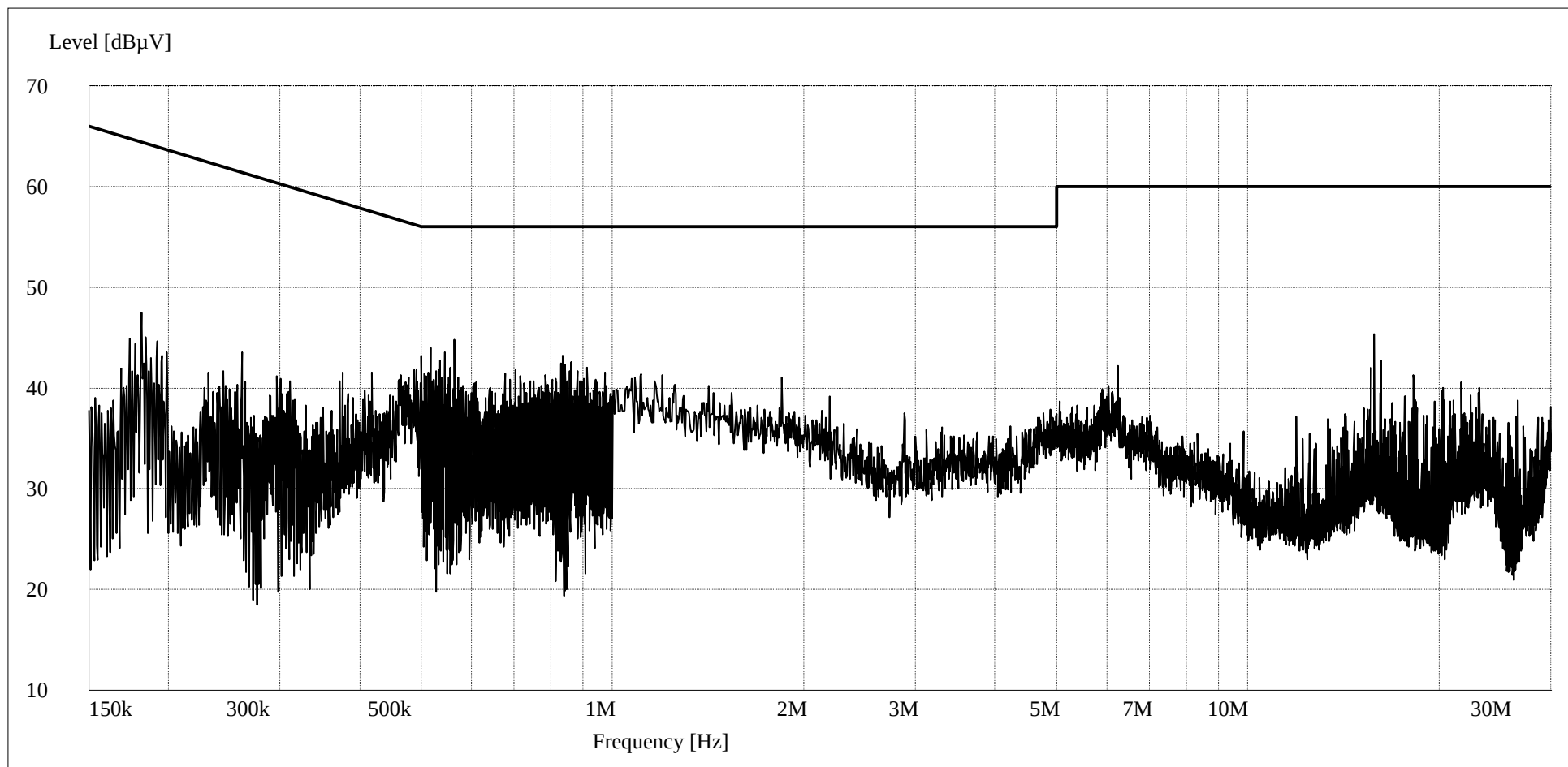
RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model No.	BSM00201U	Serial No.	IMS0606441600030
Operating Mode	Exercising USB, WiFi, and 902-928MHz Radio		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	November 16 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 46.0 %		
Lead Tested	120 VAC 60 Hz Hot Peak Readings to Quasi-Peak Limits.		



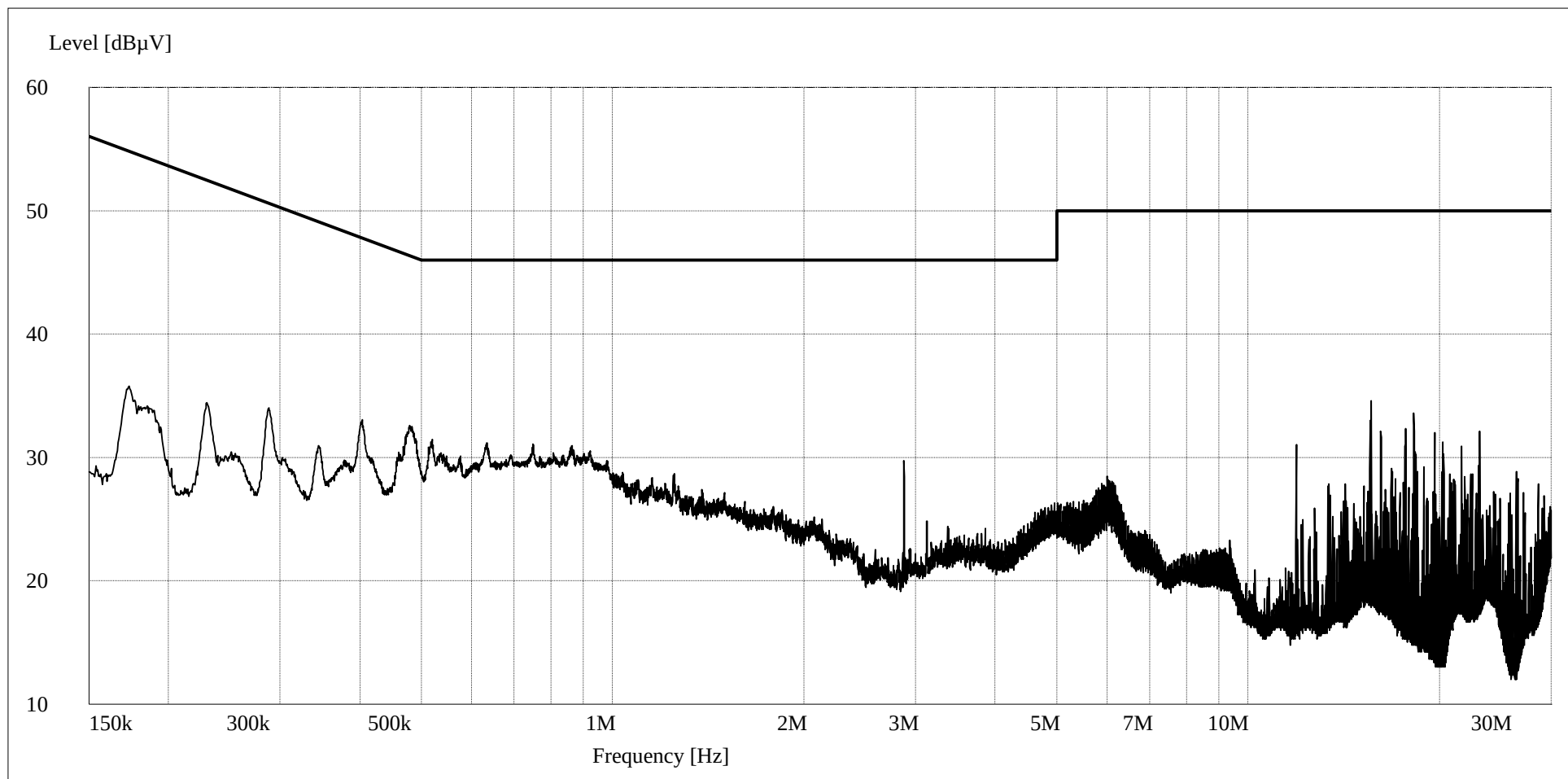
RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model No.	BSM00201U	Serial No.	IMS0606441600030
Operating Mode	Exercising USB, WiFi, and 902-928MHz Radio		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	November 16 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 46.0 %		
Lead Tested	120 VAC 60 Hz Neutral Peak Readings to Quasi-Peak Limits.		



RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model No.	BSM00201U	Serial No.	IMS0606441600030
Operating Mode	Exercising USB, WiFi, and 902-928MHz Radio		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	November 16 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 46.0 %		
Lead Tested	120 VAC 60 Hz Hot Average Readings to Average Limits.		



RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Immedia Semiconductor	Job No.	R-6151N-1
Test Sample	Blink Sync Module		
Model No.	BSM00201U	Serial No.	IMS0606441600030
Operating Mode	Exercising USB, WiFi, and 902-928MHz Radio		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	November 16 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 46.0 %		
Lead Tested	120 VAC 60 Hz Neutral Average Readings to Average Limits.		

