



**RETLIF
TESTING
LABORATORIES**

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Goffstown, NH 03045 USA
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FCC Part 15, Subpart C, Section 15.247
Test Report

On

Blink Doorbell
FCC ID: 2AF77-H1773003

Customer Name: Immedia Semiconductor, LLC

Customer P.O.: ISI06042018_MG3

Date of Revised Report: September 4, 2018

Test Report No: R-6331N-1, Rev. A

Test Start Date: July 6, 2018

Test Finish Date: July 27, 2018

Test Technician: M. Seamans

Approved By: S. Wentworth

Revised Report Prepared By: M. Chambers

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Washington Regulatory Compliance
1600 North Oak Street, #1710
Arlington, VA 22209 USA

Technical Information

Report Number: R-6331N-1, Rev. A

Customer: Immedia Semiconductor, LLC

Address: 100 Burt Road
Andover, MA 01810

Manufacturer: Immedia Semiconductor, LLC

Manufacturer Address: 100 Burt Road
Andover, MA 01810

Test Sample: Blink Doorbell

Part Number: N/A

Model Number: BCM00700U

Serial Number: 700-001-426 (Conducted Testing)
770-001-500 (Conducted Emissions and Radiated Testing)

FCC ID: 2AF77-H1773003

Type: Frequency Hopping Spread Spectrum Transmitter

Power Requirements: 12 VAC or 3 VDC via Internal Lithium Ion AA batteries

Frequency of Operation: 902.36 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

FCC DA 00-705, Released March 30, 2000, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

Test Facility:

Retlif Testing Laboratories
101 New Boston Road
Goffstown, NH 03045

FCC Accreditation Designation Number: US5327



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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)(2) 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
Section 15.207 (a)	Conducted Limits

Table 2 – Support Equipment

Description	Manufacturer	Part Number	Model Number	Serial Number
Laptop PC	Toshiba	PSPMJU-01U02J	Satellite P55-AS312	80215205S
Blink Sync Module	Immedia Semiconductor	N/A	BSM00201U	270-457-050
Laptop PC	HP	N/A	EliteBook 8540W	CND131D5GX
Wi-Fi Module	TP-Link	N/A	TL-WN722N	2158333014811
Blink Sync Module	Immedia Semiconductor	N/A	BSM00200U	210-037-831
Doorbell Transformer	Health Zenith	N/A	EM57583	N/A
Doorbell Chime	Dongguan SMART Hero Electronic Products CO LTD	N/A	N/A	17SE25



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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 Technician ATL-0255-T

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.

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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Report No. R-6331N-1, Rev. A

Revision History

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

Revision	Date	Pages Affected
-	August 24, 2018	Original Release
A	September 4, 2018	Global Change: • Date of Report: August 24, 2018 to Date of Revised Report: September 4, 2018 • Report Number from R-6331N-1 to R-6331N-1, Rev. A • Report Prepared By: P. Harris to Revised Report Prepared By: M. Chambers 2: • Removed ANSI C63.10:2013



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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 399.6 kHz which exceeded the maximum 20 dB bandwidth of 115 kHz which complies with the requirements specified above.

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 1.85 msec which complied with the above requirements.



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Requirements and Test Results (con't)

FCC Section 15.247 (b)(2) and (4) Peak Conducted Output Power

(1) For frequency hopping systems operating in the 902-928 MHz band employing at least 50 non-overlapping hopping channels: 1 watt. For systems employing less than 50 hopping channels, but at least 25 hopping channels: 0.25 watts.

(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 13.68 milliwatts and the EIRP is less than 1W.

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 915 MHz S = 0.6 mW/cm²

Power = Max Power Input to Antenna = 13.68mW

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

$$0.61 \text{ mW/cm}^2 = \frac{13.68 \times 1.41}{4 \times (3.14) \times D^2} = \frac{19.29}{12.56 \times D^2}$$

$$D^2 = \frac{19.29}{12.56 \times 0.61}$$

$$D = \sqrt{0.94} = 0.97 \text{ cm}$$

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
5231	AGILENT / HP	ANALYZER, SPECTRUM	3 Hz - 26.5 GHz	E4440A	4/12/2018	4/30/2019

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

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5231	AGILENT / HP	ANALYZER, SPECTRUM	3 Hz - 26.5 GHz	E4440A	4/12/2018	4/30/2019

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

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5231	AGILENT / HP	ANALYZER, SPECTRUM	3 Hz - 26.5 GHz	E4440A	4/12/2018	4/30/2019

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

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/17/2017	10/31/2018

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

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5231	AGILENT / HP	ANALYZER, SPECTRUM	3 Hz - 26.5 GHz	E4440A	4/12/2018	4/30/2019

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	5/25/2018	5/31/2019
3258	ETS / EMCO	ANTENNA, DOUBLE RIDGED GUIDE	1 - 18 GHz	3115	5/10/2018	11/30/2019
3427B	ETS / EMCO	ANTENNA, BICONICAL	20 - 200 MHz	3104	9/21/2017	3/31/2019
3430	MCS	ANTENNA, HORN	18 - 26.5 GHz	K-5039	No Calibration Required	
4029B	RETLIF	OPEN AREA TEST SITE, ATTENUATION	3 / 10 Meters	RNH	8/16/2017	8/31/2019
443	ELECTRO-METRICS	ANTENNA, LOG PERIODIC	200 MHz - 1000 MHz	LPA-25	5/21/2018	11/30/2019
5231	AGILENT / HP	ANALYZER, SPECTRUM	3 Hz - 26.5 GHz	E4440A	4/12/2018	4/30/2019



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**FCC Section 15.207(a)
Conducted Limit**

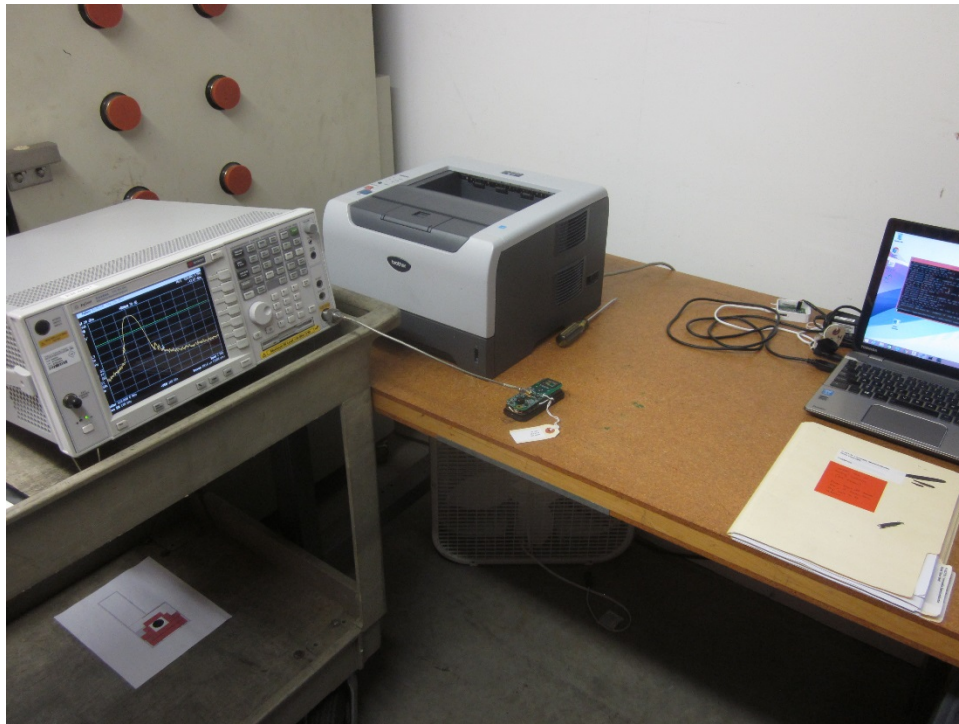
EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5133	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz	757C-10	10/25/2017	10/31/2018
5209	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30 MHz	21106-50-BP-25-BNC	4/26/2018	4/30/2019
5210	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30 MHz	21106-50-BP-25-BNC	4/26/2018	4/30/2019
5231	AGILENT / HP	ANALYZER, SPECTRUM	3 Hz - 26.5 GHz	E4440A	4/12/2018	4/30/2019



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Test Photographs Channel Separation



Test Setup



Retlif Testing Laboratories

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



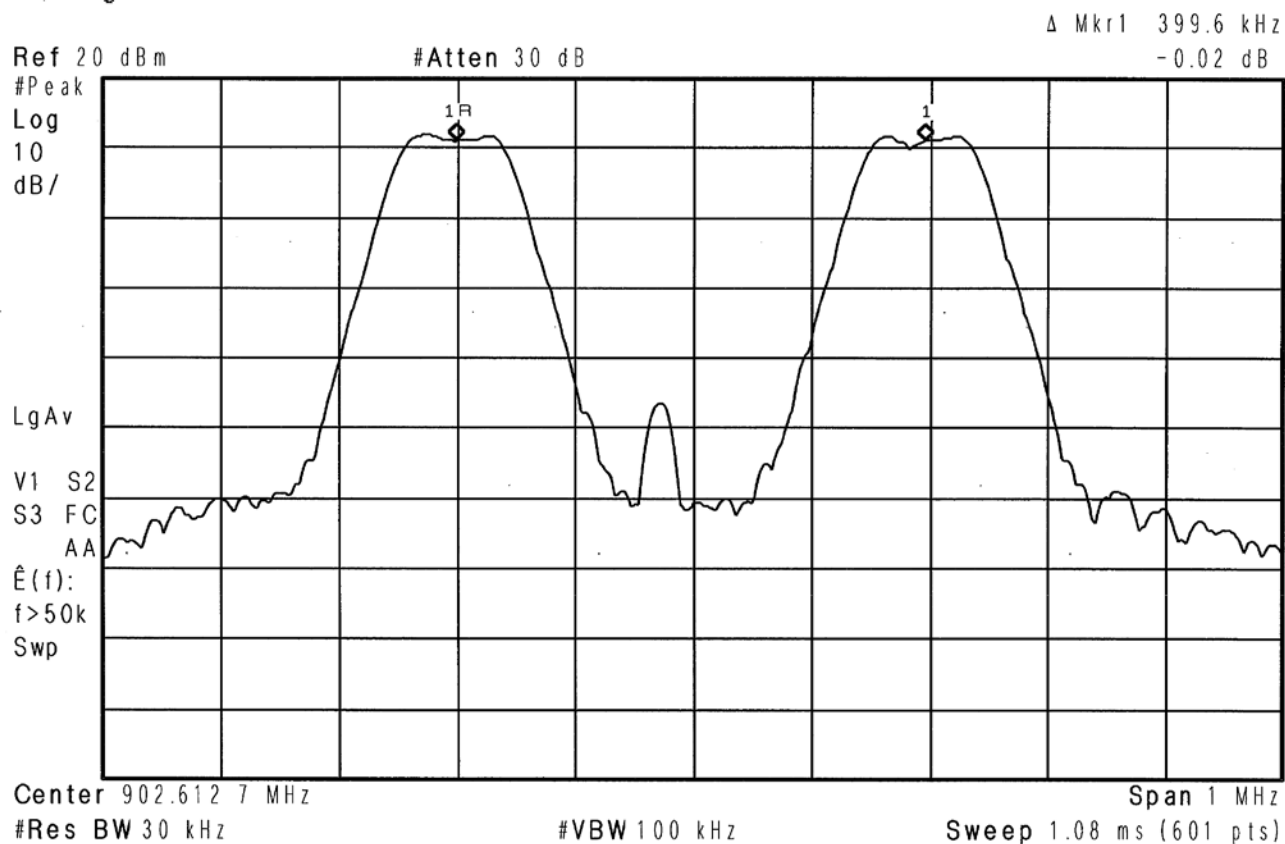
Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Channel Separation
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(1)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 23 rd , 2018
Temp/ Relative Humidity:	24.8 °C / 57.0 %
Result:	Channel Separation: 399.6 kHz

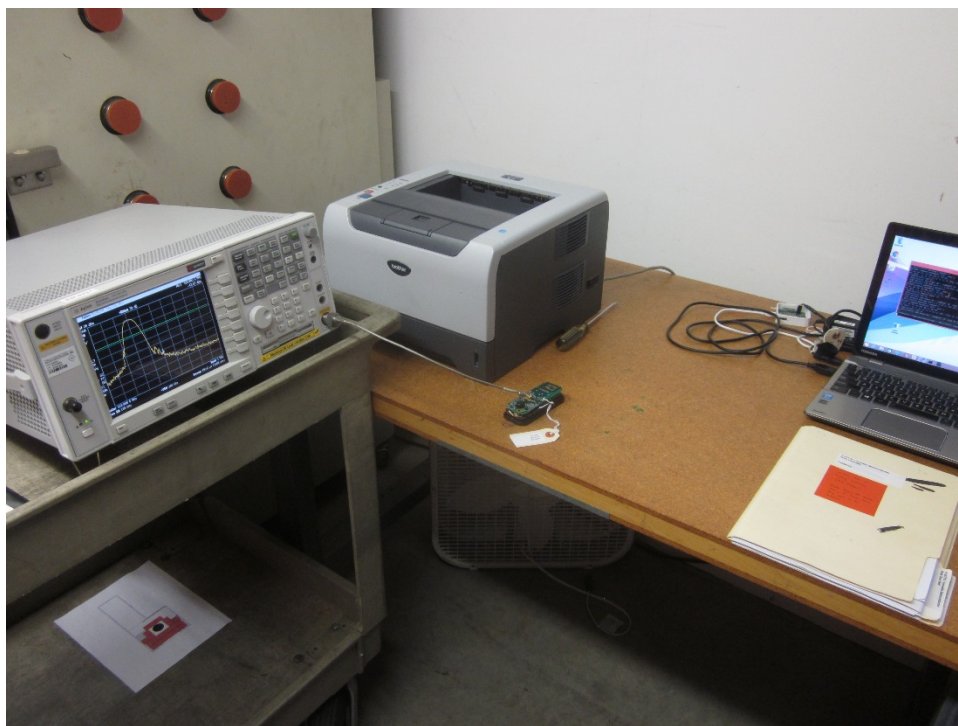
Agilent



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Test Photographs 20 dB Bandwidth



Test Setup



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



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Occupied Bandwidth
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(i)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 23 rd , 2018
Temp/ Relative Humidity:	24.4 °C / 55.2 %
Result:	20dB Bandwidth: 114.9 kHz

Agilent

Ref 20 dBm

#Atten 30 dB

Δ Mkr1 114.9 kHz

-0.03 dB

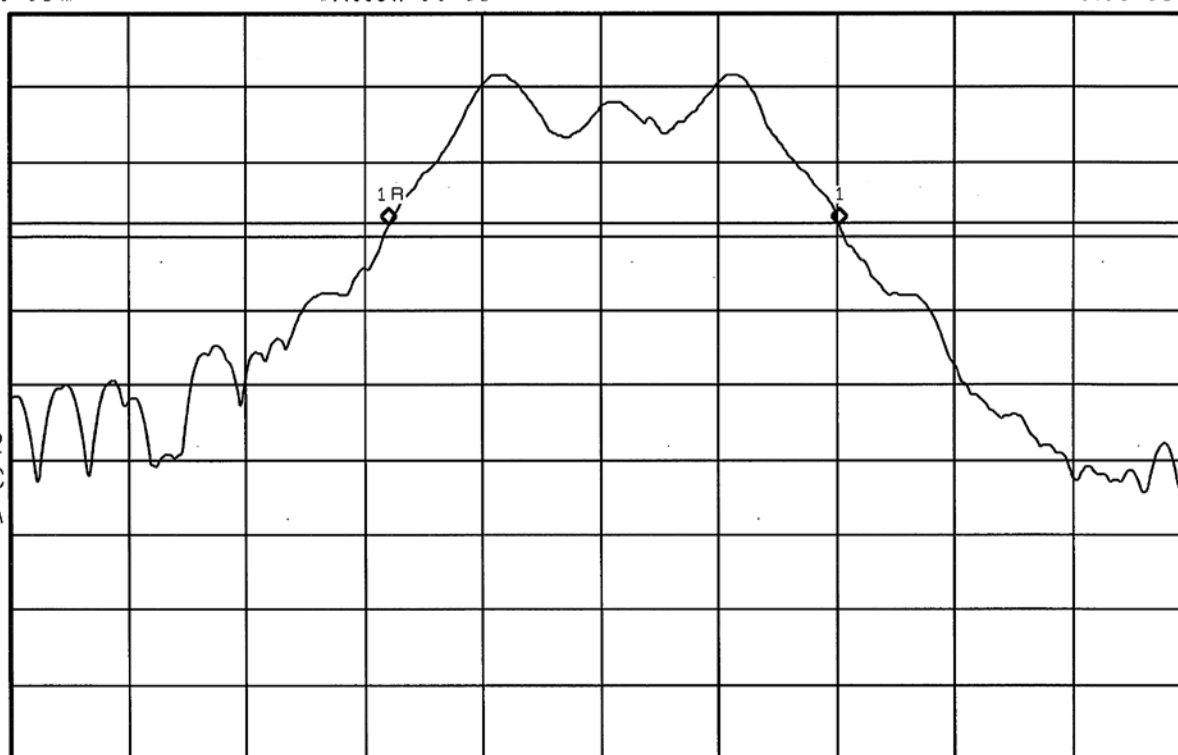
#Peak
Log
10
dB/

DI
-8.3
dBm

LgAv

V1 S2
S3 FC
AA

Ê(f):
f>50k
Swp



Center 902.403 6 MHz

#Res BW 10 kHz

#VBW 30 kHz

Span 300 kHz

Sweep 2.88 ms (601 pts)



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EMISSIONS TEST DATA SHEET

Method:	Occupied Bandwidth
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(i)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 23 rd , 2018
Temp/ Relative Humidity:	24.4 °C / 55.2 %
Result:	20dB Bandwidth: 110.4 kHz

Agilent

Ref 20 dBm

#Atten 30 dB

Δ Mkr1 110.4 kHz

-0.06 dB

#Peak

Log

10

dB/

DI

-8.5

dBm

LgAv

V1 S2

S3 FC

AA

$\hat{E}(f)$:

f > 50k

Swp

Center 915.206 7 MHz

#Res BW 10 kHz

#VBW 30 kHz

Span 300 kHz

Sweep 2.88 ms (601 pts)



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EMISSIONS TEST DATA SHEET

Method:	Occupied Bandwidth
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(i)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 23 rd , 2018
Temp/ Relative Humidity:	24.4 °C / 55.2 %
Result:	20dB Bandwidth: 115.0 kHz

Agilent

Ref 20 dBm

#Atten 30 dB

Δ Mkr1 115.0 kHz

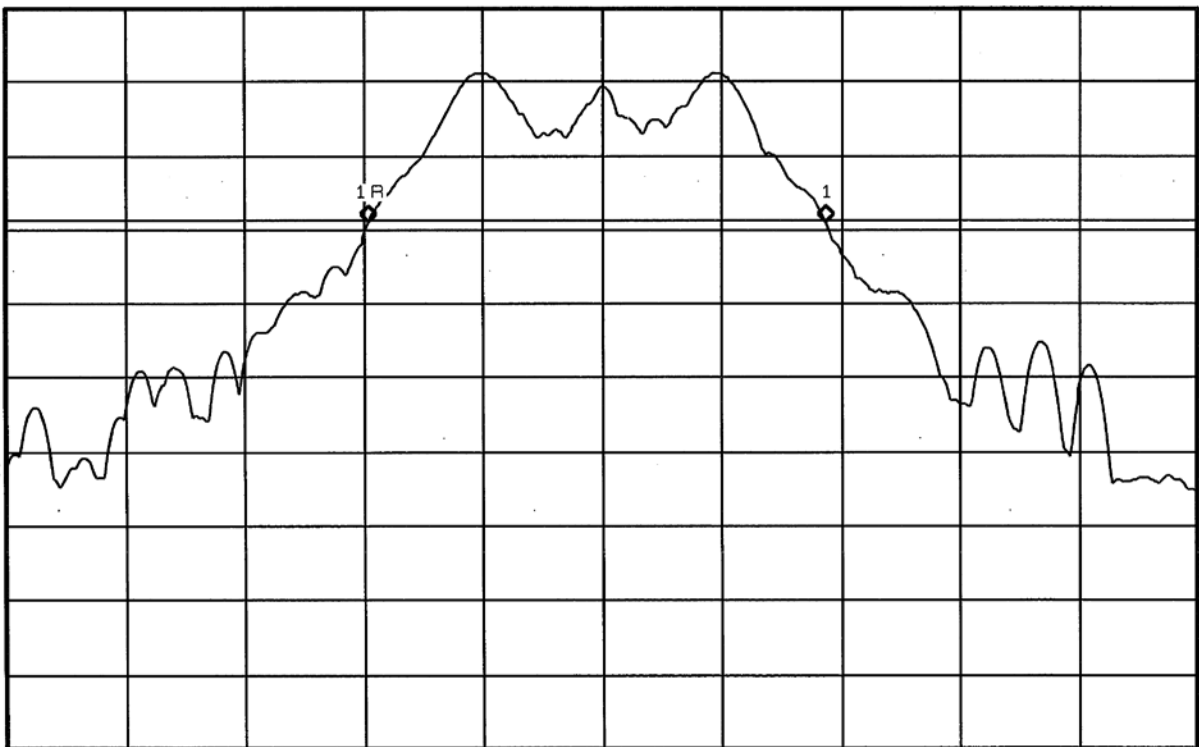
-0.23 dB

#Peak
Log
10
dB/

DI
-8.9
dBm
LgAv

V1 S2
S3 FC
AA

$\hat{E}(f)$:
f > 50k
Swp



Center 927.610 4 MHz

#Res BW 10 kHz

#VBW 30 kHz

Span 300 kHz

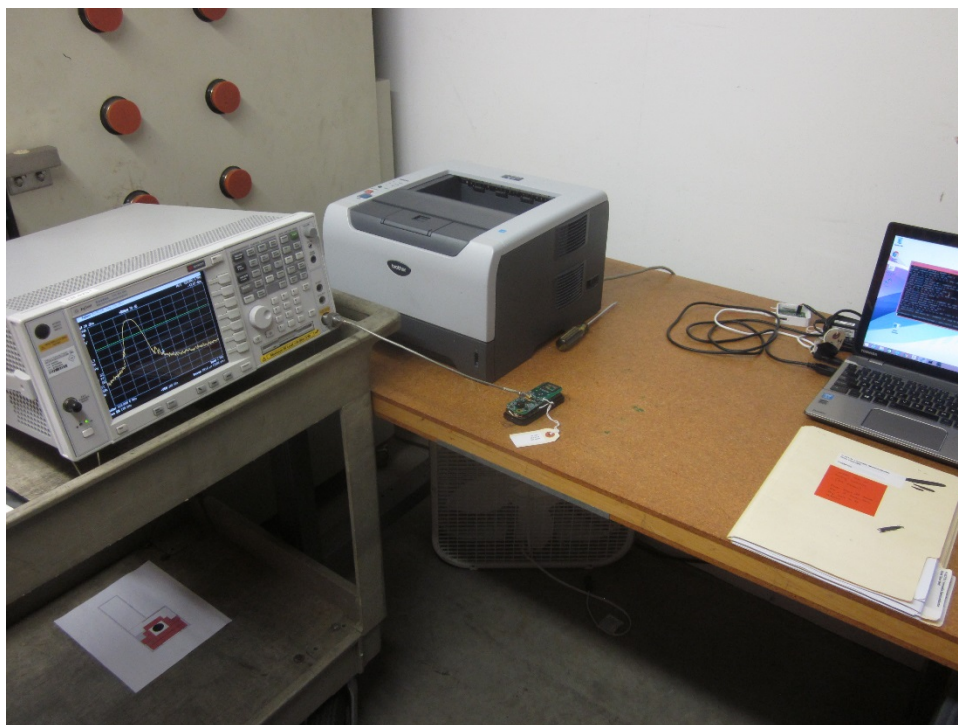
Sweep 2.88 ms (601 pts)



Retlif Testing Laboratories

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Test Photographs
Number of Channels and Occupancy Time



Test Setup



Retlif Testing Laboratories

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



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Time of Occupancy
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(iii)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	25.2 °C / 56.8 %
Result:	Time of Occupancy: (1 pulse in 20 second window)

Agilent

Ref 20 dBm

#Atten 30 dB

Mkr1 1.933 s

10.98 dBm

#Peak

Log

10

dB/

LgAv

V1 S2

S3 VC

AA

$\hat{E}(f)$:

f > 50k

Waiting for trigger

Center 902.421 0 MHz

Res BW 30 kHz

#VBW 100 kHz

Span 0 Hz

Sweep 20 s (601 pts)



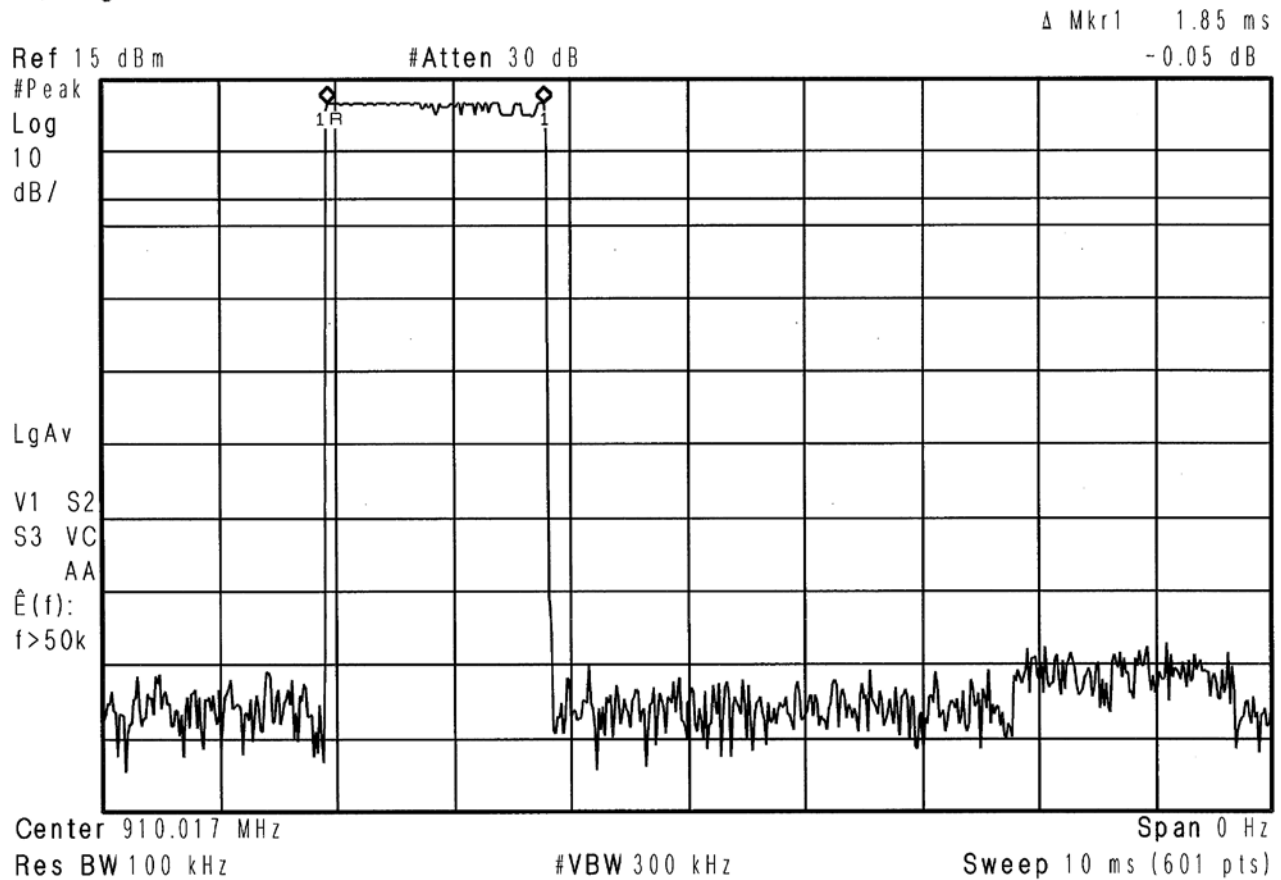
Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Time of Occupancy
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(iii)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	25.2 °C / 56.8 %
Result:	Time of Occupancy: 1.85ms (1 pulse in 20 second window)

Agilent

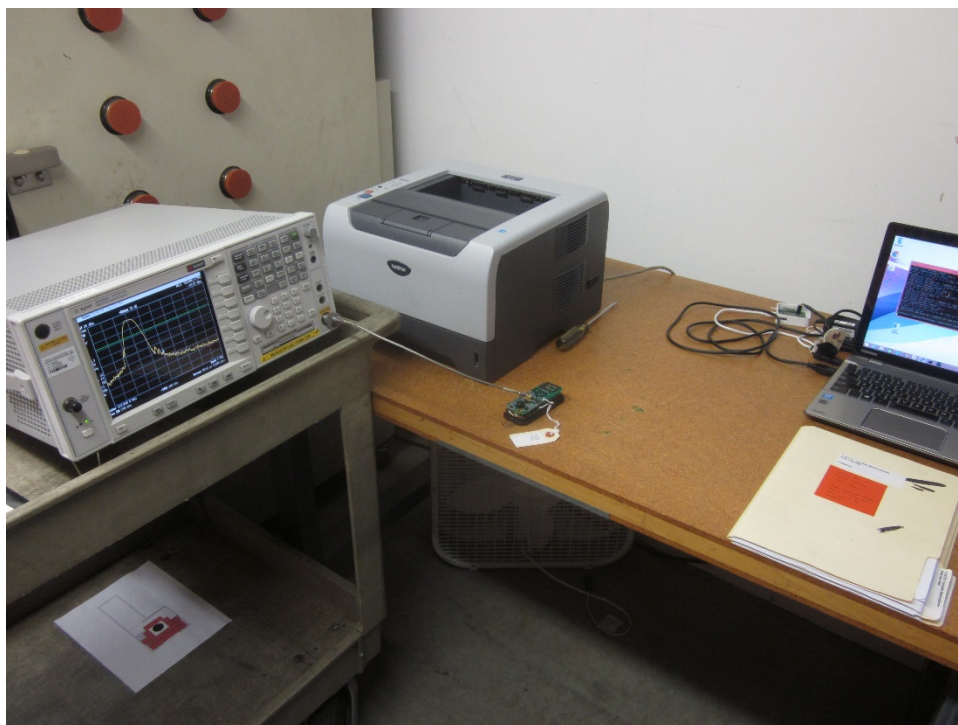


Retlif Testing Laboratories

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Test Photographs

Number of Hopping Frequencies



Test Setup



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

**Number of Hopping Frequencies
Test Data**



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Number of Hopping Channels
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(iii)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 23 rd , 2018
Temp/ Relative Humidity:	24.9 °C / 56.8 %
Result:	Number of Hopping Channels: 64

Agilent

Ref 20 dBm

#Atten 30 dB

#Peak
Log
10
dB/

LgAv

V1 S2
S3 FC
AA

$\hat{E}(f)$:

FTun

Swp

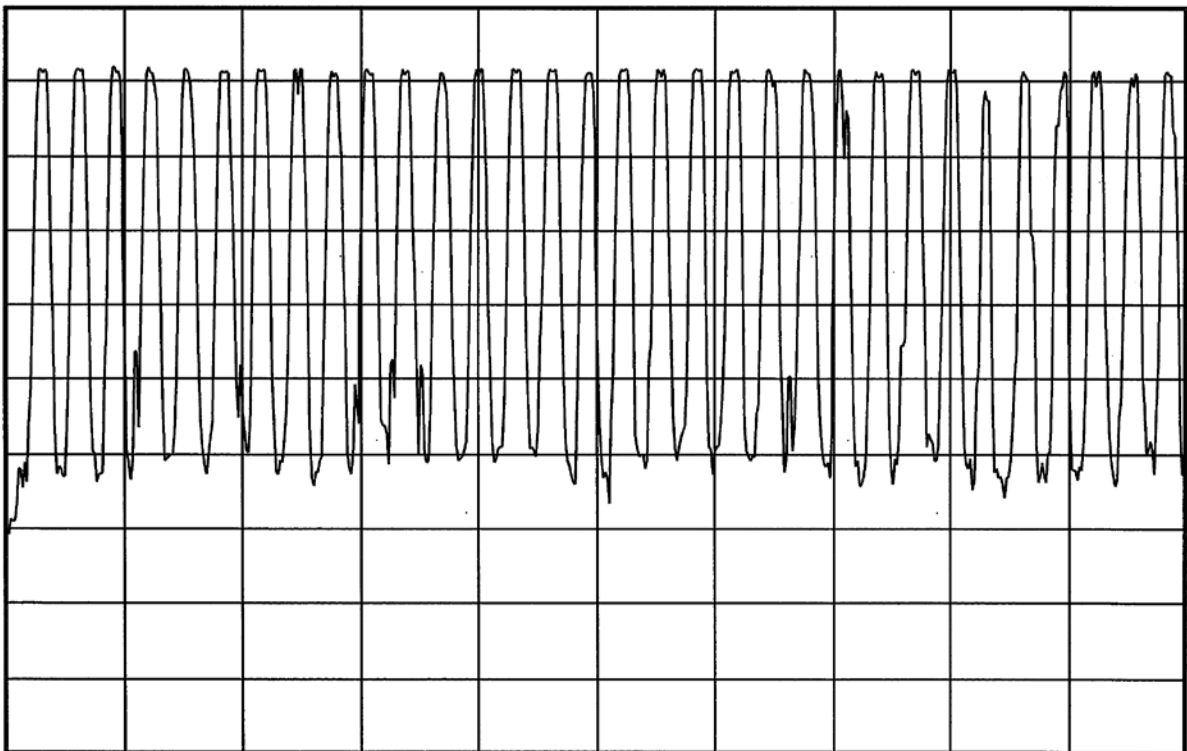
Start 902.000 MHz

#Res BW 30 kHz

#VBW 100 kHz

Stop 915.000 MHz

Sweep 13.72 ms (601 pts)



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Number of Hopping Channels
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(iii)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 23 rd , 2018
Temp/ Relative Humidity:	24.9 °C / 56.8 %
Result:	Number of Hopping Channels: 64

Agilent

Ref 20 dBm

#Atten 30 dB

#Peak
Log
10
dB/

LgAv

V1 S2
S3 FC
.AA
Ê(f):
FTun
Swp

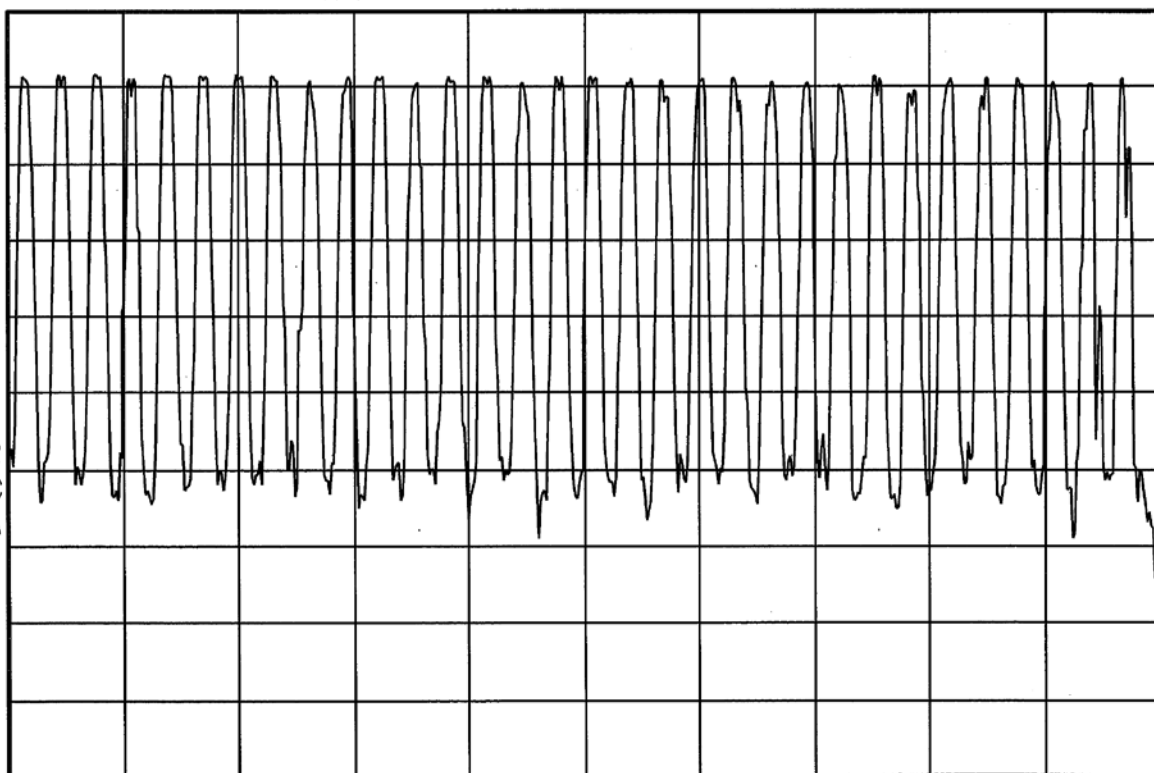
Start 915.000 MHz

#Res BW 30 kHz

#VBW 100 kHz

Stop 928.000 MHz

Sweep 13.72 ms (601 pts)



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

Test Photographs

Peak Conducted Output Power



Test Setup



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

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

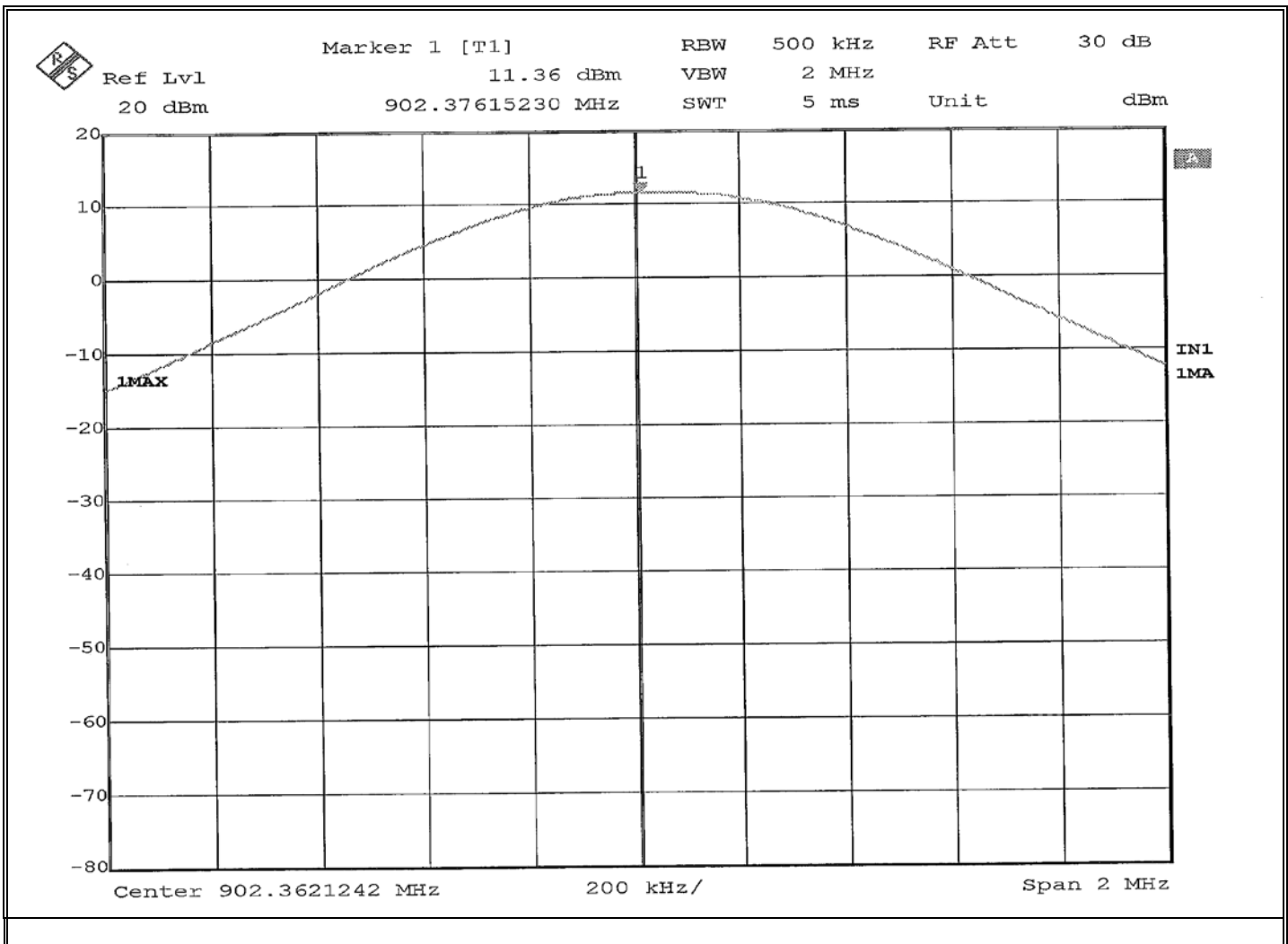


Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Power Output
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (b)(1)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 6 th , 2018
Temp/ Relative Humidity:	23.9 °C / 49.7 %
Result:	Power Output: 11.36 dBm

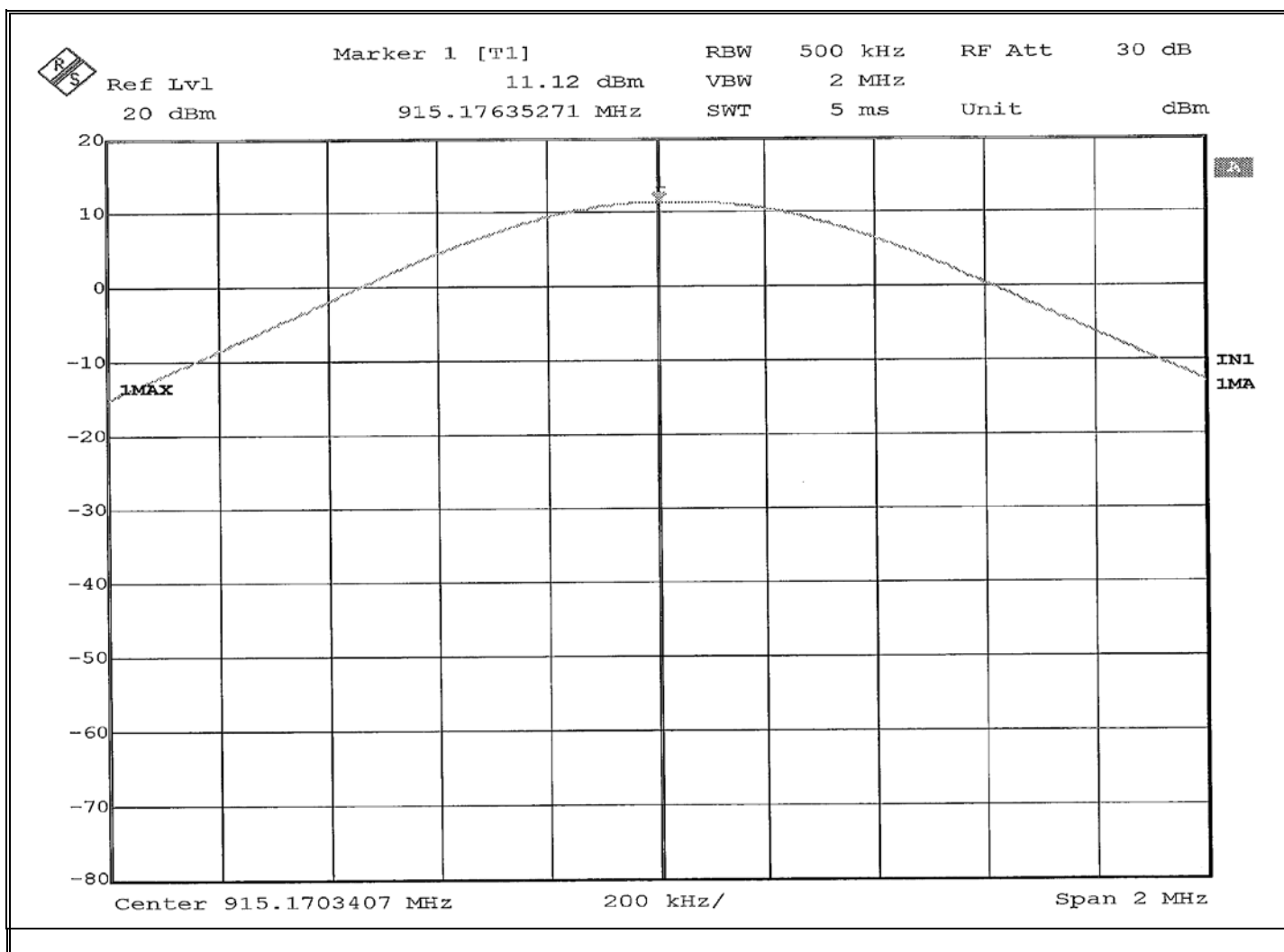


Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Power Output
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (b)(1)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 6 th , 2018
Temp/ Relative Humidity:	23.9 °C / 49.7 %
Result:	Power Output: 11.12 dBm

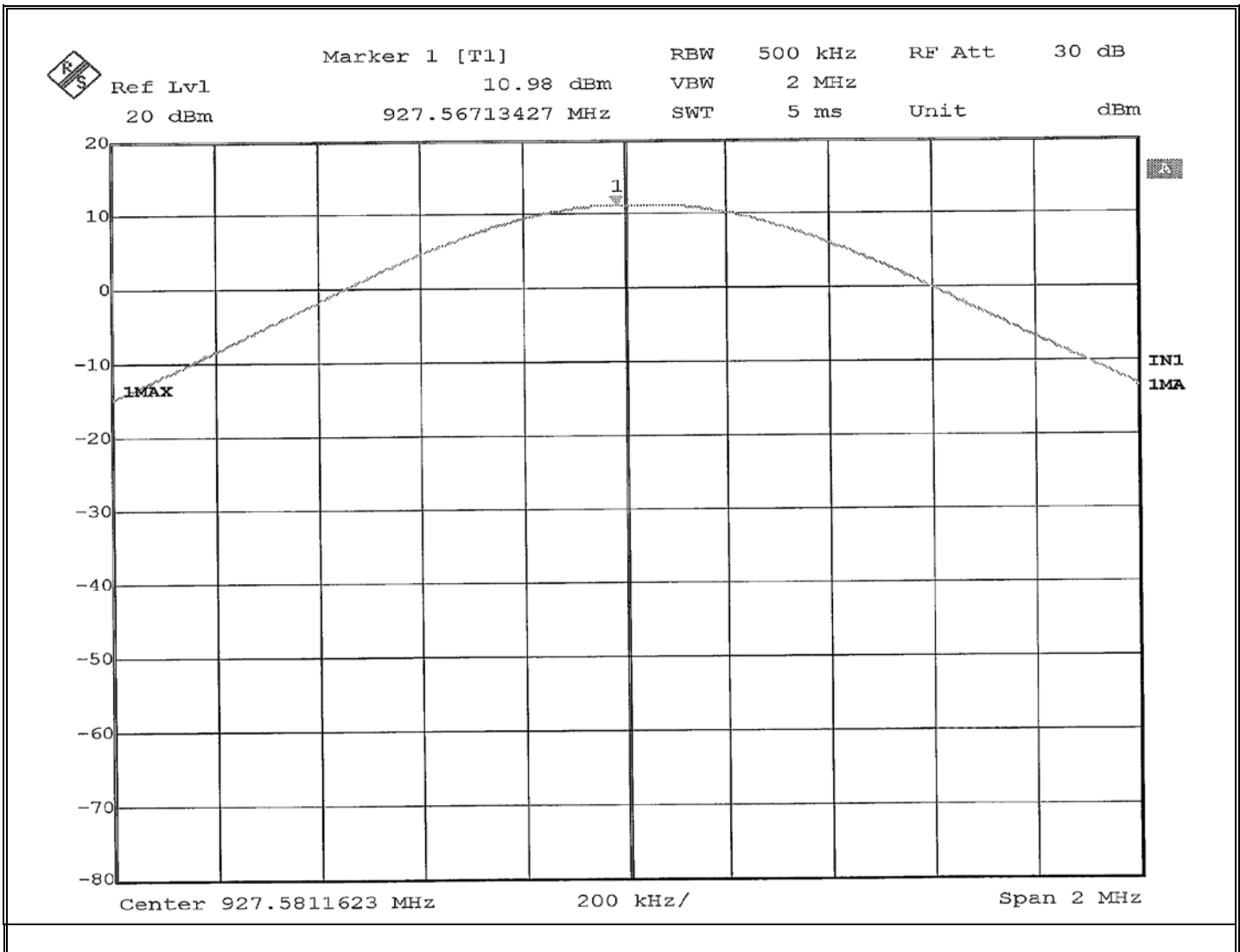


Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

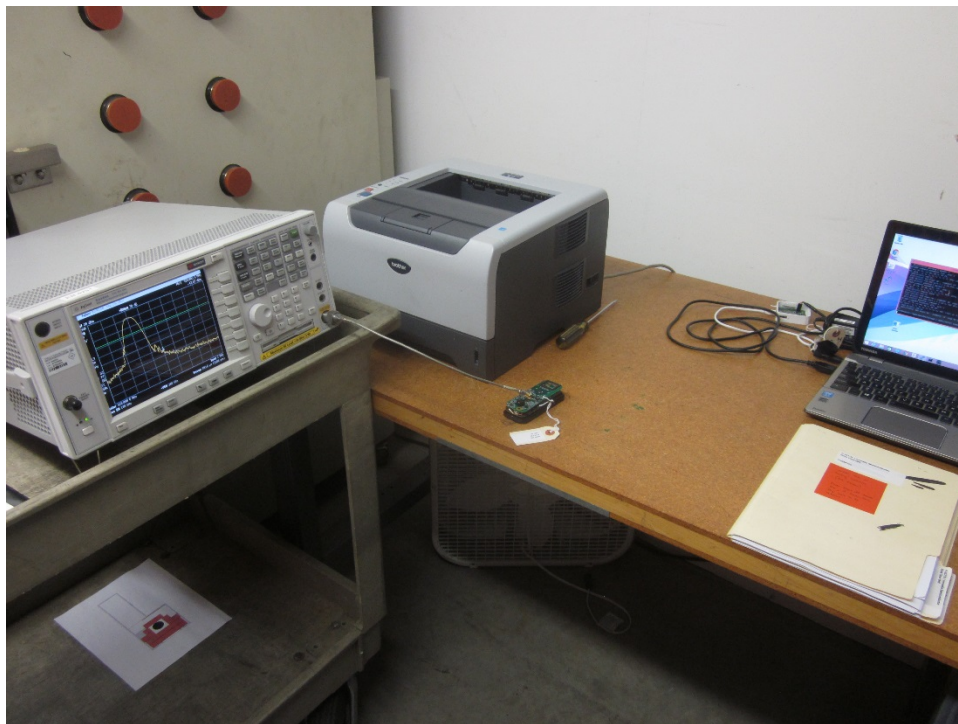
Method:	Power Output
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (b)(1)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	July 6 th , 2018
Temp/ Relative Humidity:	23.9 °C / 49.7 %
Result:	Power Output: 10.98 dBm



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

Test Photographs
Conducted Spurious Emissions, 30 MHz to 10 GHz



Test Setup



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

**FCC Section 15.247 (d)
Conducted Spurious Emissions, 30 MHz to 10 GHz
Band Edge Test Data**



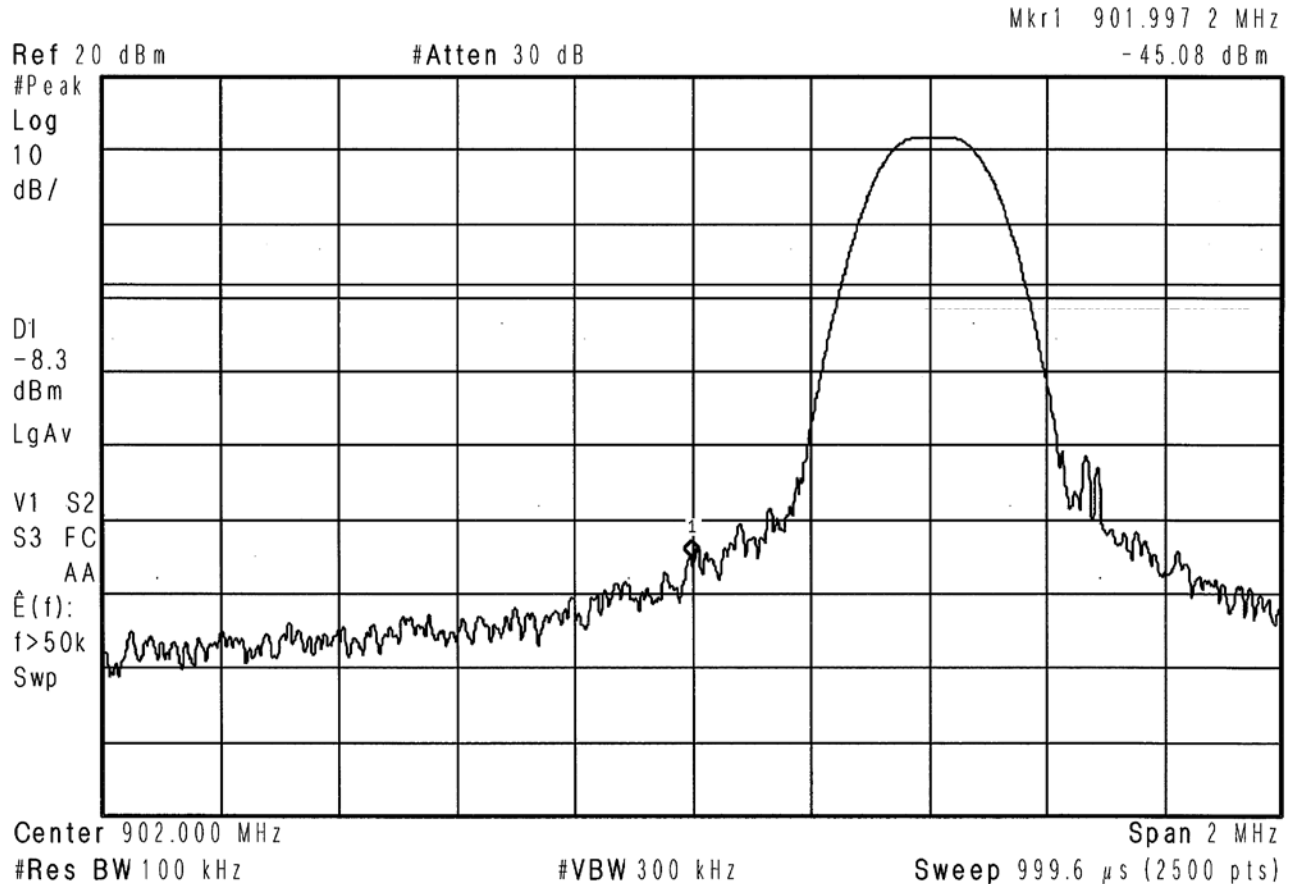
Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Band Edge
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal (Low Channel)
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	23.7 °C / 58.9 %
Notes:	Limit: -8.3 dBm

Agilent



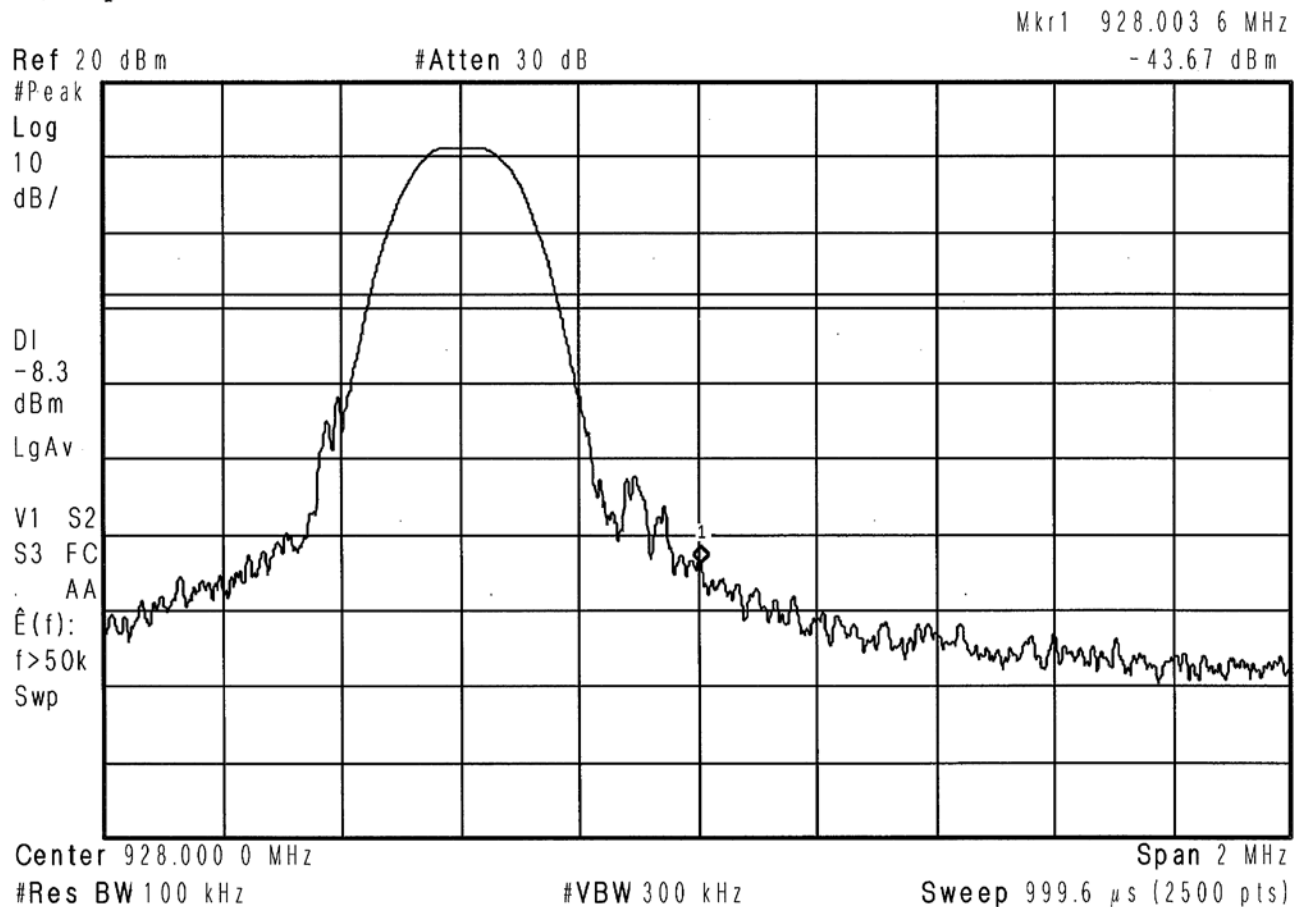
Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Band Edge
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal (High Channel)
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	23.7 °C / 58.9 %
Notes:	Limit: -8.3 dBm

Agilent



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

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



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Conducted Out of Band
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal (Low Channel)
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	23.7 °C / 58.9 %
Notes:	Limit: -8.3 dBm

Agilent

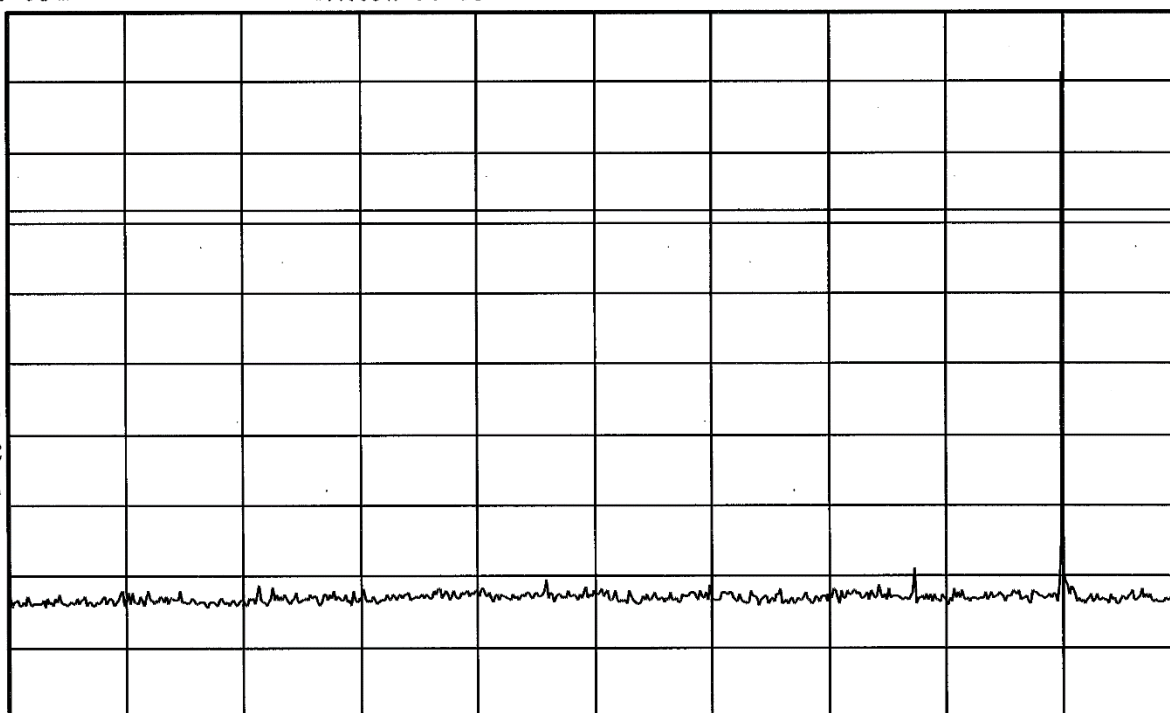
Ref 20 dBm

#Atten 30 dB

#Peak
Log
10
dB/

DI
-8.3
dBm
LgAv

V1 S2
S3 FC
AA
Ê(f):
FTun
Swp



Start 25.0 MHz

Stop 1.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 93.2 ms (601 pts)

25 MHz to 1 GHz



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Conducted Out of Band
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal (Low Channel)
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	23.7 °C / 58.9 %
Notes:	Limit: -8.3 dBm

Agilent

Ref 20 dBm

#Atten 30 dB

Mkr1 1.802 GHz

-50.53 dBm

#Peak

Log

10

dB/

DI

-8.3

dBm

LgAv

V1 S2

S3 FC

AA

$\hat{E}(f)$:

FTun

Swp

Start 1.000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 9.300 GHz

Sweep 793.2 ms (601 pts)

1 GHz to 9.3 GHz



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Conducted Out of Band
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal (Mid Channel)
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	23.7 °C / 58.9 %
Notes:	Limit: -8.3 dBm

Agilent

Ref 20 dBm

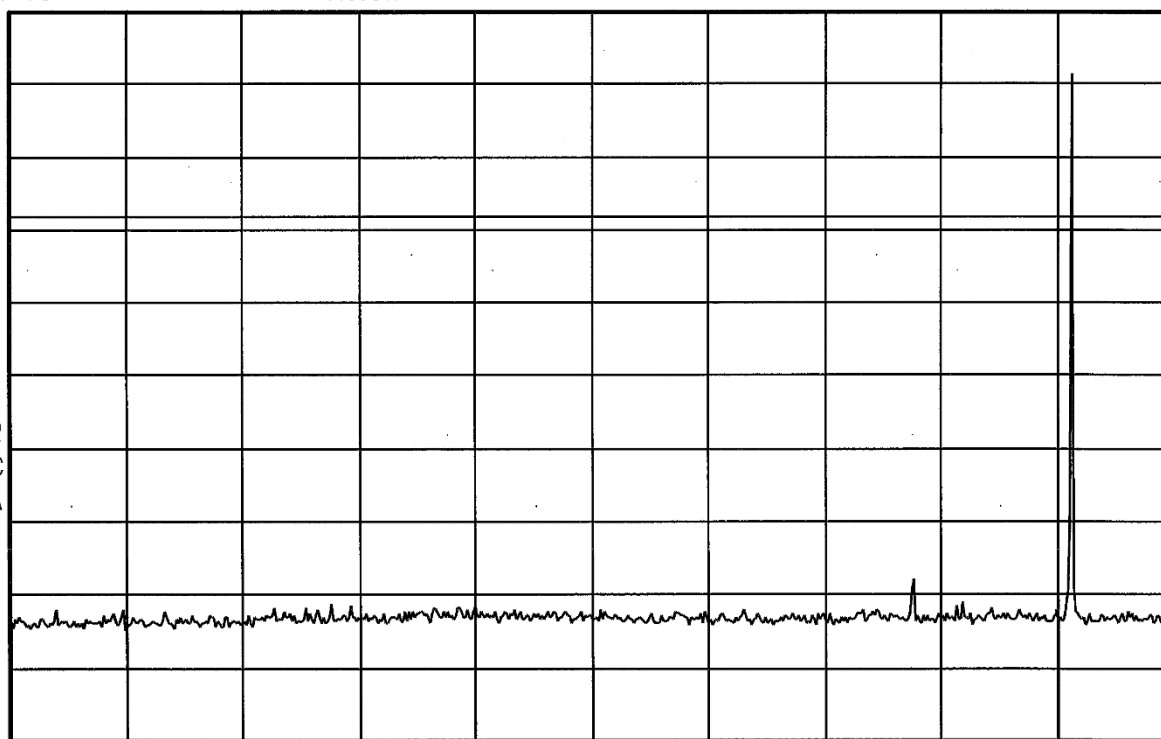
#Atten 30 dB

#Peak
Log
10
dB/

DF
-8.3
dBm
LgAv

V1 S2
S3 FC
AA

$\hat{E}(f)$:
FTun
Swp



Start 25.0 MHz

Stop 1.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 93.2 ms (601 pts)

25 MHz to 1 GHz



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Conducted Out of Band
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal (Mid Channel)
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	23.7 °C / 58.9 %
Notes:	Limit: -8.3 dBm

Agilent

Ref 20 dBm

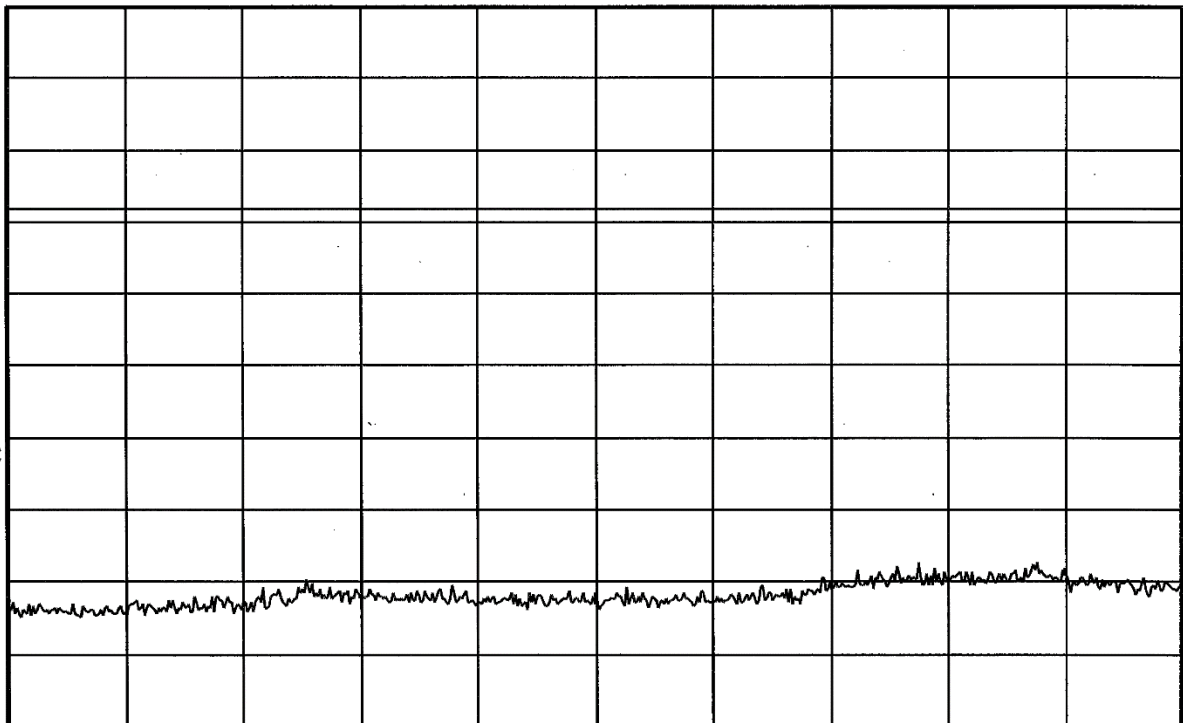
#Atten 30 dB

#Peak
Log
10
dB/

DI
-8.3
dBm
LgAv

V1 S2
S3 FC
AA

$\hat{E}(f)$:
FTun
Swp



Start 1.000 GHz

Stop 9.300 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 793.2 ms (601 pts)

1 GHz to 9.3 GHz



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Conducted Out of Band
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal (High Channel)
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	23.7 °C / 58.9 %
Notes:	Limit: -8.3 dBm

Agilent

Ref 20 dBm

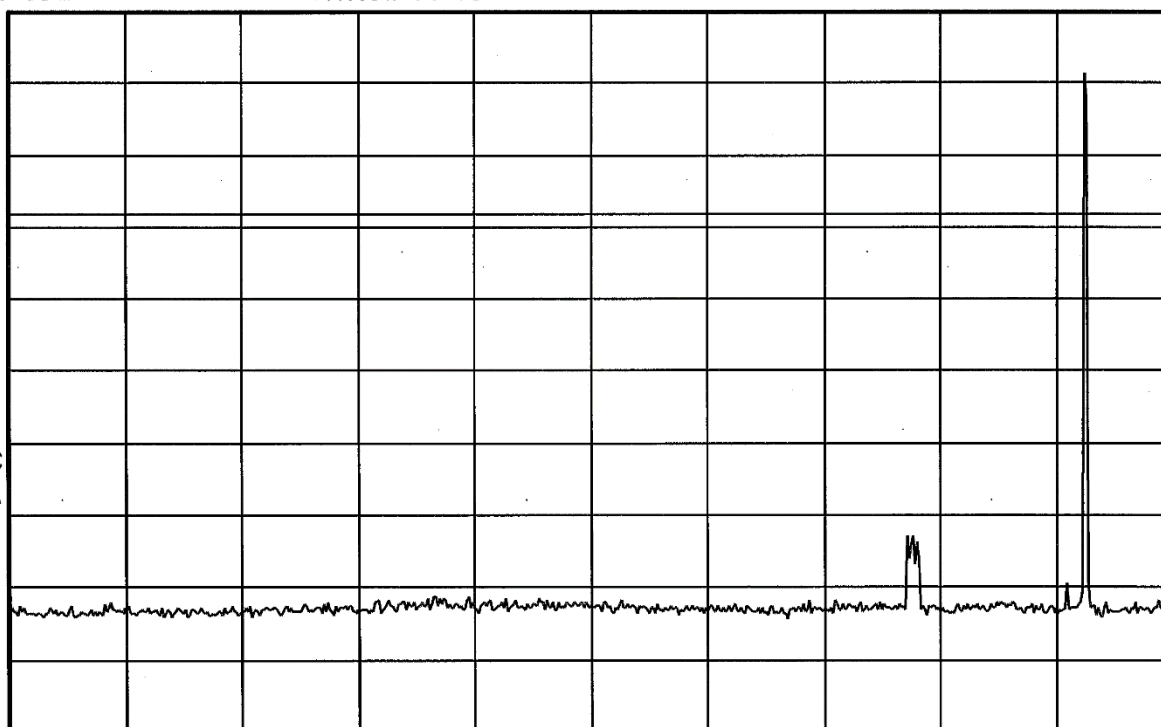
#Atten 30 dB

#Peak
Log
10
dB/

D1
-8.3
dBm
LgAv

V1 S2
S3 FC
AA

$\hat{E}(f)$:
FTun
Swp



Start 25.0 MHz

Stop 1.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 93.2 ms (601 pts)

25 MHz to 1 GHz



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Method:	Conducted Out of Band
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6331N-1
Customer:	Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	700-001-426
Operating Mode:	Transmitting modulated signal (High Channel)
Technician:	M.Seamans
Date(s):	July 24 th , 2018
Temp/ Relative Humidity:	23.7 °C / 58.9 %
Notes:	Limit: -8.3 dBm

Agilent

Ref 20 dBm

#Atten 30 dB

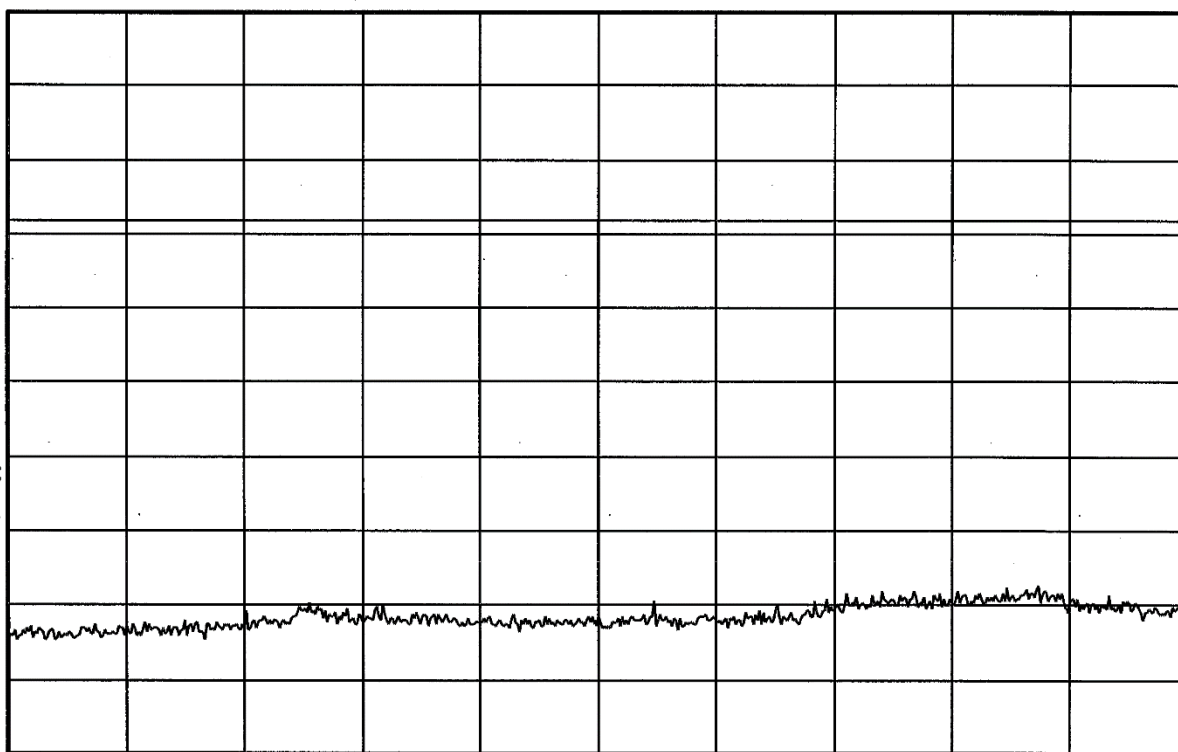
#Peak
Log
10
dB/

DI
-8.3
dBm

LgAv

V1 S2
S3 FC
AA

$\hat{E}(f)$:
FTun
Swp



Start 1.000 GHz

Stop 9.300 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 793.2 ms (601 pts)

1 GHz to 9.3 GHz



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

Test Photographs
Field Strength of Spurious Emissions



Test Configuration



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

Test Photographs
Field Strength of Spurious Emissions



Horizontal Antenna Polarization, 30 to 200 MHz



Vertical Antenna Polarization, 30 to 200 MHz



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

Test Photographs

Field Strength of Spurious Emissions



Horizontal Antenna Polarization, 200 MHz to 1 GHz



Vertical Antenna Polarization, 200 MHz to 1 GHz



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

Test Photographs

Field Strength of Spurious Emissions



Horizontal Antenna Polarization, 1 GHz to 10 GHz



Vertical Antenna Polarization, 1 GHz to 10 GHz



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

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



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor LLC	
Job Number	R-6331N-1	
Test Sample	Blink Doorbell	
Model Number	BCM00700U	
Serial Number	770-001-500	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated signal	
Technician	M. Seamans	
Date	July 27 th , 2018	

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	12.38	13.28	25.66	*		19.19	I
38.25	-	-	-	-			-	100.00
73.00	-	-	-	-			-	100.00
	74.00	19.76	9.02	28.78	*		27.48	I
74.60	-	-	-	-			-	100.00
74.80	-	-	-	-			-	100.00
	75.00	15.60	9.02	24.62	*		17.02	
75.20	-	-	-	-			-	100.00
108.00	-	-	-	-			-	150.00
	115.00	2.57	15.46	18.03	*		7.97	
	-	-	-	-			-	
121.94	-	-	-	-			-	150.00
123.00	-	-	-	-			-	150.00
	130.00	3.35	15.11	18.46	*		8.38	
	-	-	-	-			-	
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).



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor LLC	
Job Number	R-6331N-1	
Test Sample	Blink Doorbell	
Model Number	BCM00700U	
Serial Number	770-001-500	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated signal	
Technician	M. Seamans	
Date	July 27 th , 2018	

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	2.39	16.07	18.46	*		8.38	
150.05	-	-	-	-			-	150.00
156.52	-	-	-	-			-	150.00
	156.52	1.22	17.37	18.59	*		8.50	
156.52	-	-	-	-			-	150.00
156.70	-	-	-	-			-	150.00
	156.80	1.17	17.43	18.60	*		8.51	
156.90	-	-	-	-			-	150.00
162.01	-	-	-	-			-	150.00
	165.00	0.47	18.63	19.10	*		9.02	
167.17	-	-	-	-			-	150.00
167.72	-	-	-	-			-	150.00
	170.00	0.72	19.20	19.92	*		9.21	
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).



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor LLC	
Job Number	R-6331N-1	
Test Sample	Blink Doorbell	
Model Number	BCM00700U	
Serial Number	770-001-500	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated signal	
Technician	M. Seamans	
Date	July 27 th , 2018	

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
240.00	-	-	-	-			-	200.00
	260.00	0.46	16.59	17.05	*		7.12	
285.00	-	-	-	-			-	200.00
322.80	-	-	-	-			-	200.00
	330.00	0.27	18.99	19.26	*		9.18	
335.40	-	-	-	-			-	200.00
399.90	-	-	-	-			-	200.00
	405.00	0.40	20.85	21.25	*		11.55	
410.00	-	-	-	-			-	200.00
608.00	-	-	-	-			-	200.00
	611.00	0.34	25.88	26.22	*		20.46	
614.00	-	-	-	-			-	200.00
960.00	-	-	-	-			-	500.00
	975.00	-0.92	33.10	34.02	*		34.22	
1240.00	-	-	-	-			-	500.00
1300.00	-	-	-	-			-	500.00
	1350.00	31.97	-9.40	22.57	*		22.57	
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).



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor LLC	
Job Number	R-6331N-1	
Test Sample	Blink Doorbell	
Model Number	BCM00700U	
Serial Number	770-001-500	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated signal	
Technician	M. Seamans	
Date	July 27 th , 2018	

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	33.17	-8.64	24.53	*		16.86	
1646.50	-	-	-	-			-	500.00
1660.00	-	-	-	-			-	500.00
	1680.00	31.40	-7.81	23.60	*		15.14	
1710.00	-	-	-	-			-	500.00
1718.80	-	-	-	-			-	500.00
	1720.00	31.14	-7.65	23.49	*		14.95	
1722.20	-	-	-	-			-	500.00
2200.00	-	-	-	-			-	500.00
	2250.00	31.17	-5.78	25.39	*		18.60	
2300.00	-	-	-	-			-	500.00
2310.00	-	-	-	-			-	500.00
	2360.00	30.72	-5.46	25.26	*		18.32	
2390.00	-	-	-	-			-	500.00
2483.50	-	-	-	-			-	500.00
	2490.00	31.42	-5.11	26.31	*		20.68	
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).



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor LLC	
Job Number	R-6331N-1	
Test Sample	Blink Doorbell	
Model Number	BCM00700U	
Serial Number	770-001-500	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated signal	
Technician	M. Seamans	
Date	July 27 th , 2018	

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
	2707.90	31.08	-4.55	26.53	*		21.21	
	2745.00	31.18	-4.45	26.73	*		21.70	
	2782.50	31.30	-4.36	26.94	*		22.23	
2900.00	-	-	-	-			-	500.00
3260.00	-	-	-	-			-	500.00
	3263.00	30.60	-2.88	27.72	*		24.32	
3267.00	-	-	-	-			-	500.00
3332.00	-	-	-	-			-	500.00
	3336.00	31.47	-2.62	28.85	*		27.70	
3339.00	-	-	-	-			-	500.00
3345.00	-	-	-	-			-	500.00
	3350.00	31.50	-2.57	28.93	*		27.96	
3358.00	-	-	-	-			-	500.00
3600.00	-	-	-	-			-	500.00
	3609.02	31.18	-1.69	29.49	*		29.82	
	3660.00	31.18	-1.52	29.66	*		30.41	
	3710.00	31.30	-1.36	29.94	*		31.41	

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).



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor LLC	
Job Number	R-6331N-1	
Test Sample	Blink Doorbell	
Model Number	BCM00700U	
Serial Number	770-001-500	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated signal	
Technician	M. Seamans	
Date	July 27 th , 2018	

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

TEST PARAMETERS

Restricted Band MHz	Measured Frequency MHz	Meter Reading dBuV	Correction Factor dB	Corrected Reading dBuV/m		Converted Reading uV/m	Limit at 3M uV/m
	-	-	-	-		-	
4400.00	-	-	-	-		-	500.00
4500.00	-	-	-	-		-	500.00
	4800.00	31.10	0.29	31.39	*	37.11	
5150.00	-	-	-	-		-	500.00
5350.00	-	-	-	-		-	500.00
	5400.00	30.75	0.92	31.67	*	38.33	
5460.00	-	-	-	-		-	500.00
7250.00	-	-	-	-		-	500.00
	7440.00	30.74	3.65	34.39	*	52.42	
7750.00	-	-	-	-		-	500.00
8025.00	-	-	-	-		-	500.00
	8300.00	31.98	4.43	36.41	*	66.15	
8500.00	-	-	-	-		-	500.00
9000.00	-	-	-	-		-	500.00
	9100.00	31.95	5.10	37.05	*	71.20	
9200.00	-	-	-	-		-	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).



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor LLC	
Job Number	R-6331N-1	
Test Sample	Blink Doorbell	
Model Number	BCM00700U	
Serial Number	770-001-500	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated signal	
Technician	M. Seamans	
Date	July 27 th , 2018	

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

TEST PARAMETERS

[illegible]

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).



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Test Photographs Conducted Limits



EUT Configuration



Test Setup



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FCC Part 15, Subpart B, Section 15.207 (a)
Conducted Emissions
150 kHz to 30 MHz
Test Data



Retlif Testing Laboratories

Report No. R-6331N-1, Rev. A

EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart B, Section 15.207(a), Conducted Emissions
Method:	ANSI C63.4, Section 7., AC power-line conducted emission measurements
Job Number/Customer:	R-6331N-1 / Immedia Semiconductor LLC
Test Sample:	Blink Doorbell
Model Number:	BCM00700U
Serial Number:	770-001-500
Operating Mode:	Sending video to laptop via sync module
Technician:	M. Seamans
Date(s):	July 26 th , 2018
Lead Tested:	120 VAC 60 Hz

Frequency	Lead Tested	Peak Meter Reading	Quasi-Peak Meter Reading	Average Meter Reading	Quasi-Peak Limit	Average Limit
MHz		dBuV	dBuV	dBuV	dBuV	dBuV
0.151	Hot	36.39	35.65	27.16	65.94	55.94
0.152	Neutral	32.01	26.64	17.21	65.89	55.89
5.930	Hot	24.84	17.85	11.54	60	50
4.207	Neutral	24.56	19.35	11.94	56	46
14.371	Hot	27.15	20.62	13.80	60	50
15.374	Neutral	27.51	20.74	12.76	60	50
21.265	Hot	28.60	22.45	15.20	60	50
17.404	Neutral	26.73	21.34	13.95	60	50
25.691	Hot	30.04	23.33	17.26	60	50
21.371	Neutral	28.22	21.89	14.03	60	50
29.965	Hot	33.10	28.51	22.44	60	50
29.811	Neutral	31.44	27.69	21.29	60	50

The frequency range was scanned from 0.15 MHz to 30 MHz.

The six highest emissions relative to the limit are presented.

The emissions observed from the EUT do not exceed the specified limits.



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