

FCC Part 15, Subpart C, Section 15.247 Test Report

Put Us To The Test

On

Blink Doorbell Camera FCC ID: 2AF77- H2111705

Customer Name:	Immedia Semiconductor, LLC
Customer P.O:	2D-05125331
Date of Report:	September 10, 2021
Test Report No:	R-6584H-1
Test Start Date:	July 19, 2021
Test Finish Date:	August 12, 2021
Test Engineer:	
Test Technician:	M. Seamans
Approved By:	
Report Prepared By:	P. Harris



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Technical Information

Report Number:	R-6584H-1
Customer:	Immedia Semiconductor, LLC
Address:	100 Riverpark Drive
_	North Reading, MA 01864
Manufacturer:	Immedia Semiconductor, LLC
Manufacturer Address:	100 Riverpark Drive
	North Reading, MA 01864
Test Sample:	Blink Doorbell Camera
Model Number:	BDM00200U
Serial Number:	G8T1-SJ00-1273-00VU
FCC ID:	2AF77- H2111705
Туре:	Frequency Hopping Spread Spectrum Transmitter
Power Requirements:	(2) 1.5 V AA Batteries, and 24 VAC
Frequency of Operation:	902.4 MHz to 927.6 MHz
Equipment Class:	DSS
Antenna Type:	Internal PCB Antenna – 1.4 dBi Gain
Equipment Use:	Used in a Home Monitoring System
Test Specification: FCC Rules and Regulations Part 1	5, Subpart C, Section 15.247
Test Procedure : ANSI C63.4:2014 ANSI C63.10:2013 FCC 558074 D01 15.247 Meas Gu	idance v05r02, April 2, 2019
Test Facility: Retlif Testing Laboratories 101 New Boston Road Goffstown, NH 03045 FCC Designation Number: US5327	,
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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(d)	Field Strength of Spurious Emissions
Section 15.207 (a)	Conducted Emissions

EUT Operation:

The Blink Video Doorbell lets you see and hear what is happening at your front door and talk back through your smart phone with a two-way talk feature.

Description	Manufacturer	Model Number	Serial Number			
Laptop PC	HP	Probook 450 G5	5C08390CBN			
AC Transformer	Health Zenith	EMS7583H	17ZN46			
Sync Module	Immedia Semiconductor, LLC	BSM00400U	GBT1-V700-1252-013J			

Table 1 – Support Equipment



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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

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 report must not be used by the client to claim product endorsement by ANSI National Accreditation Board (ANAB).



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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 September 10, 2021 Pages Affected 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 404.60 kHz which exceeded the maximum 20 dB bandwidth of 113.908 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 frequencies and the average time of occupancy on any 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 9.7 ms 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 1.4 dBi. The maximum peak conducted output power was measured to be 17.99 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 2.

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

Table 2 - Radiated Emission Limit

• Results:

The field strength of spurious radiated emissions did not exceed the limits specified in Table 2.



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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 dBµV/m M_R = Uncorrected Meter Reading in dBµV C_F = Correction Factor in dB (Antenna Factor, Pre-amp + Cable Loss)

Example:

 $\begin{array}{l} M_{\text{R}} = 15.35 \; dB\mu V \\ C_{\text{F}} = 16.85 \; dB \\ C_{\text{R}} = 15.35 \; dBuV + 16.85 = 32.2 \; dB\mu V/m \end{array}$

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

invLog dBµV/M/20

32.2 dBuV/m = 40.74 uV/m

RF Power Conversion:

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

InvLog dBm/10

Example: 20dBm = 100mW



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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 access 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.

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cmsq

Per 1.1310 For the Frequency of 915 MHz S = 0.6 mW/cmsq

Power = Max Power Input to Antenna = 17.99mW

Gain = Max Power Gain of Antenna = 1.4 dBi = 1.38 numeric

 $0.61 \text{ mW/cmsq} = \frac{17.99 \text{ x } 1.38}{4 \text{ x } (3.14) \text{ x } \text{D}^2} = \frac{24.83}{12.56 \text{ x } \text{D}^2}$

 $D^{A}2 = \frac{24.83}{12.56 \times 0.61}$

D = $\sqrt{1.21} = 1.1$ 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 3, 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.

Frequency of Emission	Conducted Limit (dBµV)		
(MHz)	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			

Table 3 - Conducted Emission Limits

• Results:

The conducted emissions observed did not exceed the limits specified in Table 3.



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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	7/6/2021	7/31/2022
5259	DYNAWAVE	CABLE, COAXIAL	DC - 40 GHz	DT-NS-072	12/16/2020	12/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021

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	7/6/2021	7/31/2022
5259	DYNAWAVE	CABLE, COAXIAL	DC - 40 GHz	DT-NS-072	12/16/2020	12/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021

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	7/6/2021	7/31/2022
5259	DYNAWAVE	CABLE, COAXIAL	DC - 40 GHz	DT-NS-072	12/16/2020	12/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021

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

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
523	1 AGILENT / HP	ANALYZER, SPECTRUM	3 Hz - 26.5 GHz	E4440A	7/6/2021	7/31/2022
525	9 DYNAWAVE	CABLE, COAXIAL	DC - 40 GHz	DT-NS-072	12/16/2020	12/31/2021
704	4 OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021



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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	7/6/2021	7/31/2022
5259	DYNAWAVE	CABLE, COAXIAL	DC - 40 GHz	DT-NS-072	12/16/2020	12/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021

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	2/12/2021	2/28/2022
3427B	ETS / EMCO	ANTENNA, BICONICAL	20 - 200 MHz	3104	10/27/2020	4/30/2022
4029B	RETLIF	OPEN AREA TEST SITE, ATTENUATION	3 / 10 Meters	RNH	9/30/2019	9/30/2021
5188	Cybertron	COMPUTER, CONTROL	N/A	TSVQJA2221	No Calibratio	on Required
5211	COM-POWER	GENERATOR, COMB	1 MHz - 1 GHz	CGO-501	5/21/2021	5/31/2022
5242	TELEDYNE MICROWAVE	CABLE, COAXIAL	10 kHz - 6 GHz	PR90-195-1275, 106'	9/21/2020	9/30/2021
5259	DYNAWAVE	CABLE, COAXIAL	DC - 40 GHz	DT-NS-072	12/16/2020	12/31/2021
5267	MICRO-COAX	CABLE, COAXIAL	10 kHz - 40 GHz	UFA147A-0-0960- 30030	5/10/2021	5/31/2022
8017	ETS / EMCO	ANTENNA, DOUBLE RIDGED GUIDE	1 - 18 GHz	3115	6/30/2021	12/31/2022
8549	EMCO	ANTENNA, LOG PERIODIC	200 MHz - 1 GHz	3146	6/29/2019	6/30/2022
896	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022

FCC Section 15.207(a) Conducted Emissions

Manufacturer	Description	Range	Model No.	Cal Date	Due Date
NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz, 2 W	757C-10	12/8/2020	12/31/2021
Cybertron	COMPUTER, CONTROL	N/A	TSVQJA2221	No Calibrat	ion Required
SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30	21106-50-BP-25- BNC	4/28/2021	4/30/2022
SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30	21106-50-BP-25- BNC	4/28/2021	4/30/2022
COM-POWER	GENERATOR, COMB	100 kHz - 400 MHz	CGC-510E	8/24/2020	8/31/2021
ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022
	NARDA MICROWAVE Cybertron SOLAR ELECTRONICS SOLAR ELECTRONICS COM-POWER	NARDA MICROWAVEATTENUATOR, COAXIALCybertronCOMPUTER, CONTROLSOLARLISNELECTRONICSLISNCOM-POWERGENERATOR, COMB	NARDA MICROWAVEATTENUATOR, COAXIAL10 dB, DC - 12.4 GHz, 2 WCybertronCOMPUTER, CONTROLN/ASOLARLISN50 uH, 150 kHz - 30ELECTRONICSS0 LARLISNSOLARLISN50 uH, 150 kHz - 30ELECTRONICSCOM-POWERGENERATOR, COMB100 kHz - 400 MHz100 kHz - 400 MHz	NARDA MICROWAVEATTENUATOR, COAXIAL10 dB, DC - 12.4 GHz, 2 W757C-10CybertronCOMPUTER, CONTROLN/ATSVQJA2221SOLARLISN50 uH, 150 kHz - 3021106-50-BP-25- BNCSOLARLISN50 uH, 150 kHz - 3021106-50-BP-25- BNCSOLARLISN50 uH, 150 kHz - 3021106-50-BP-25- BNCCOM-POWERGENERATOR, COMB100 kHz - 400 MHzCGC-510E	NARDA MICROWAVEATTENUATOR, COAXIAL10 dB, DC - 12.4 GHz, 2757C-1012/8/2020CybertronCOMPUTER, CONTROLN/ATSVQJA2221No CalibratSOLARLISN50 uH, 150 kHz - 3021106-50-BP-25- BNC4/28/2021SOLARLISN50 uH, 150 kHz - 3021106-50-BP-25- BNC4/28/2021SOLARLISN50 uH, 150 kHz - 3021106-50-BP-25- BNC4/28/2021COM-POWERGENERATOR, COMB100 kHz - 400 MHzCGC-510E8/24/2020

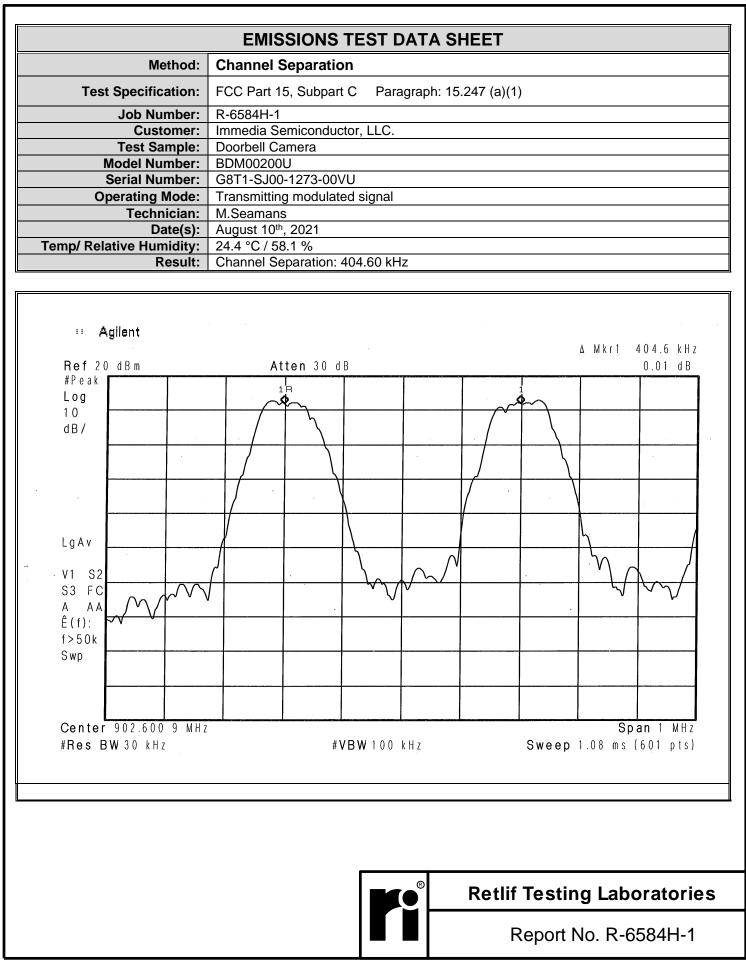


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FCC Section 15.247(a)(1) Channel Separation Test Data



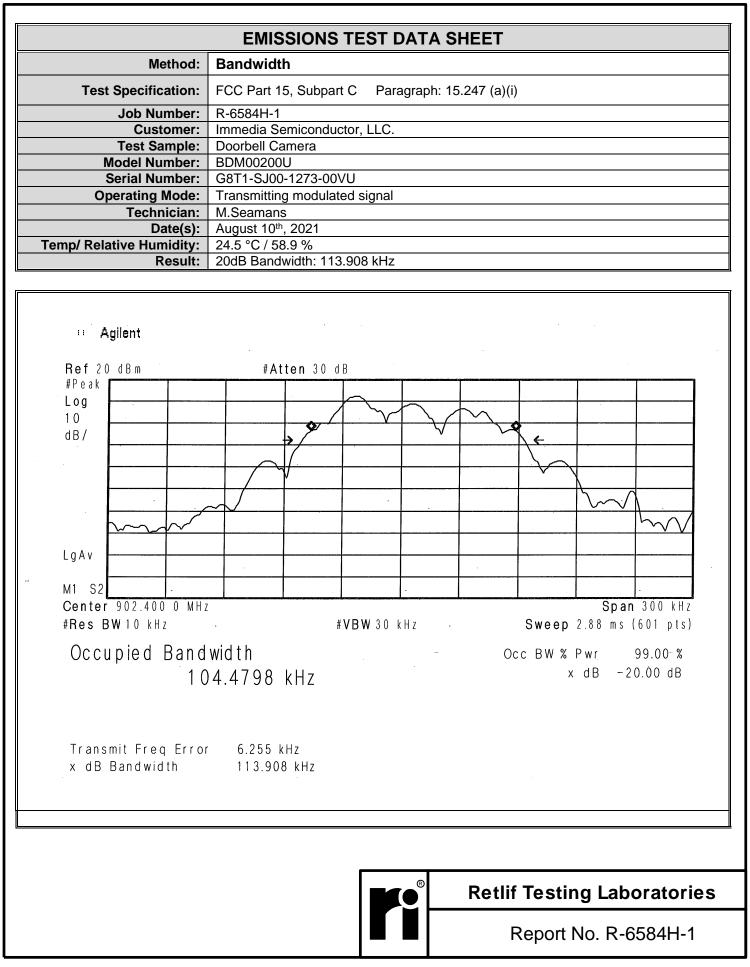
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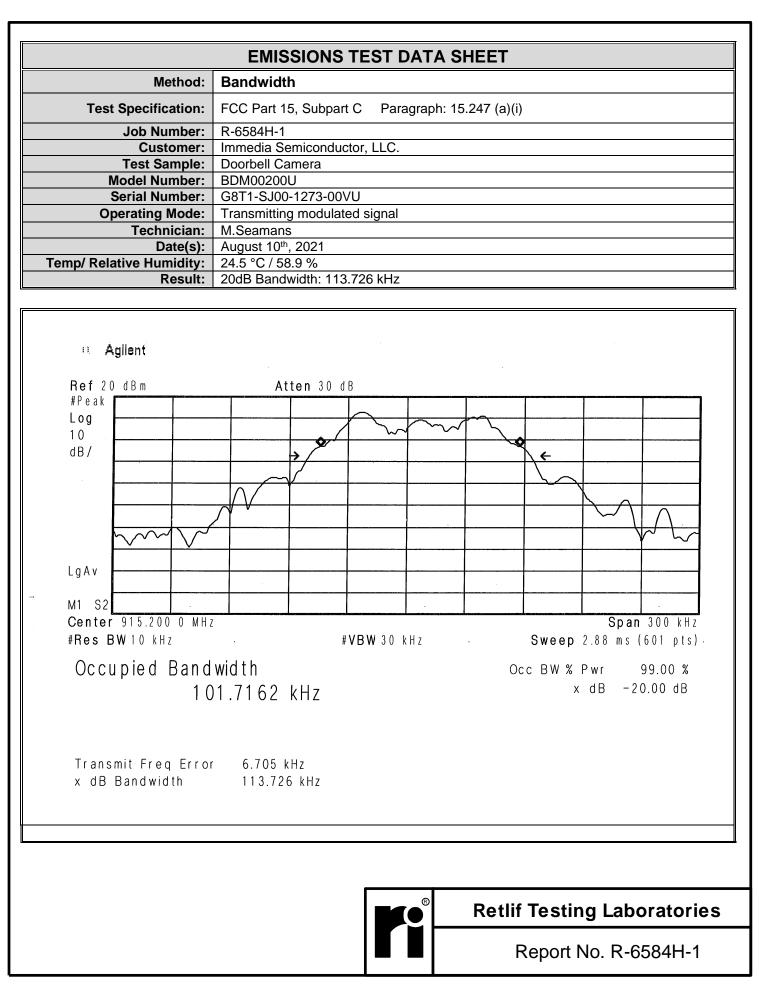


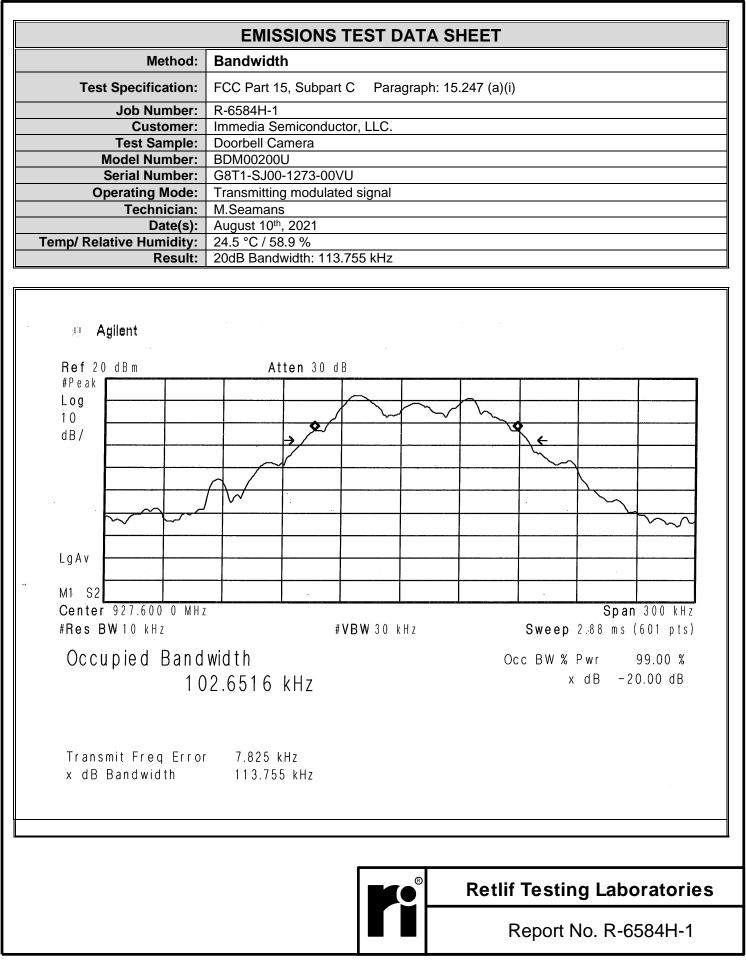
FCC Section 15.247(a)(1) 20 dB Bandwidth Test Data



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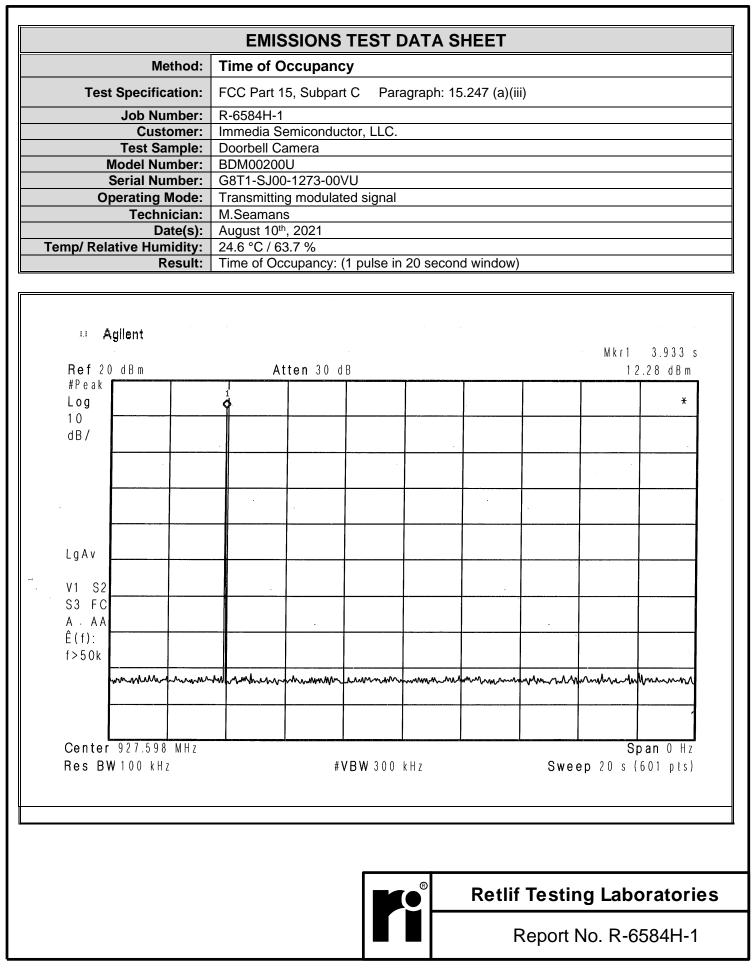


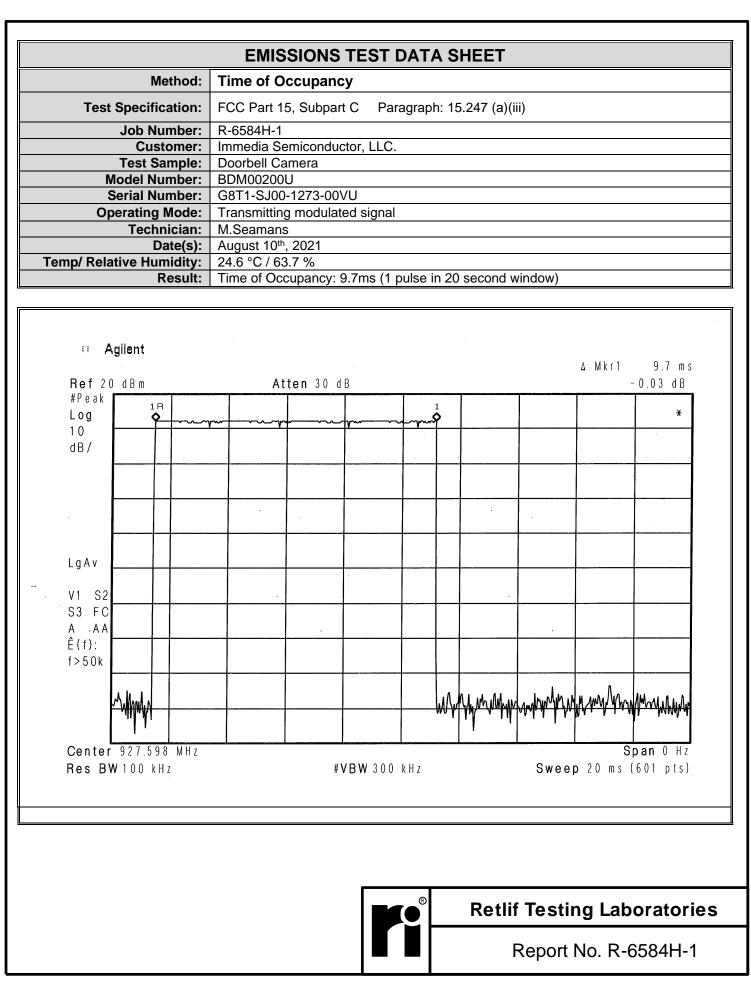


FCC Section 15.247 (a)(1)(i) Number of Channels and Occupancy Time Test Data



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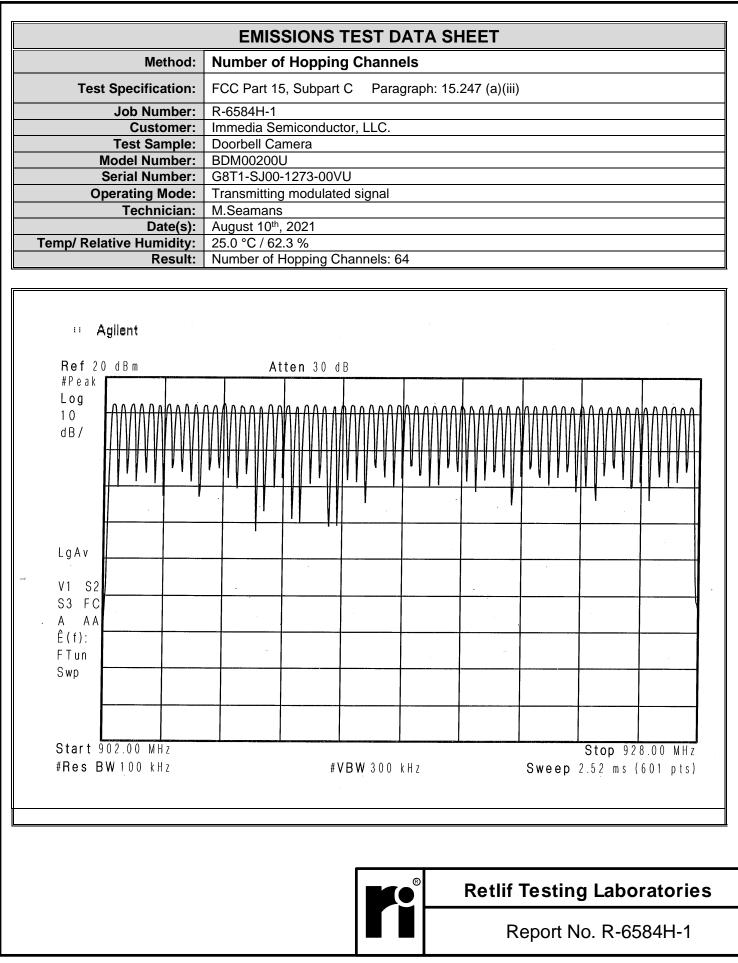




Number of Hopping Frequencies Test Data



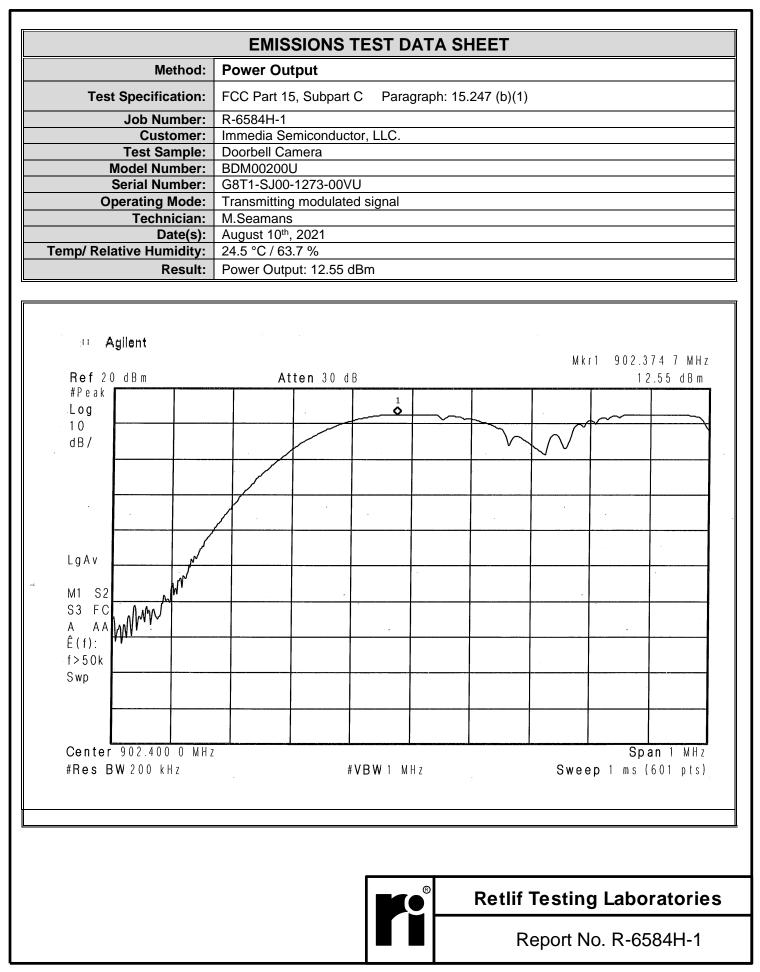
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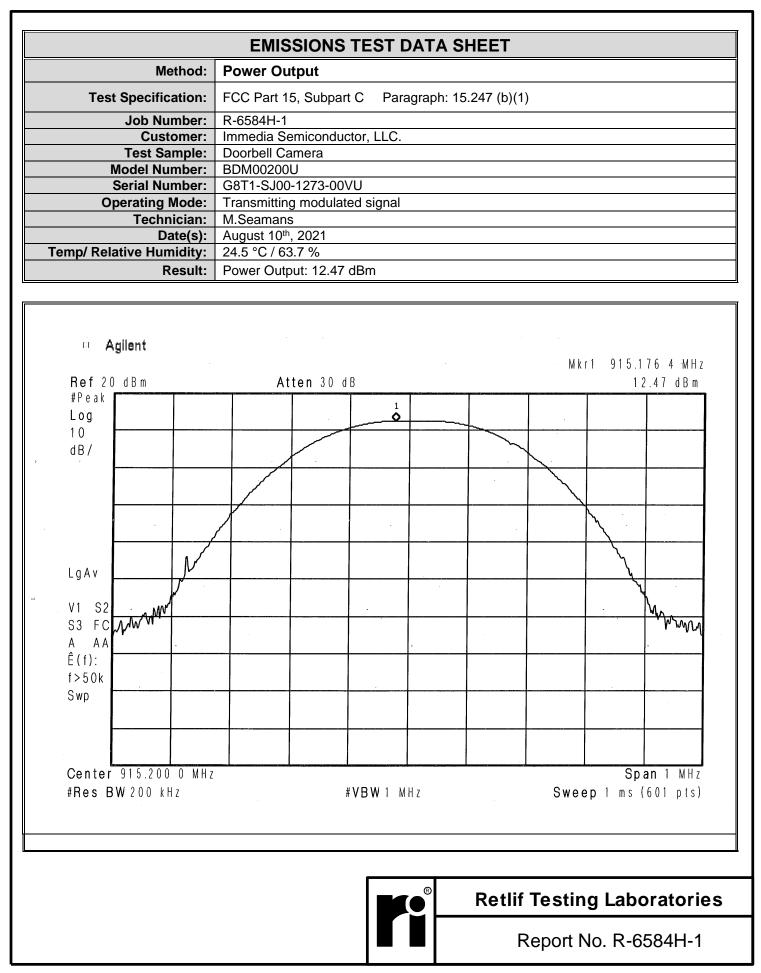


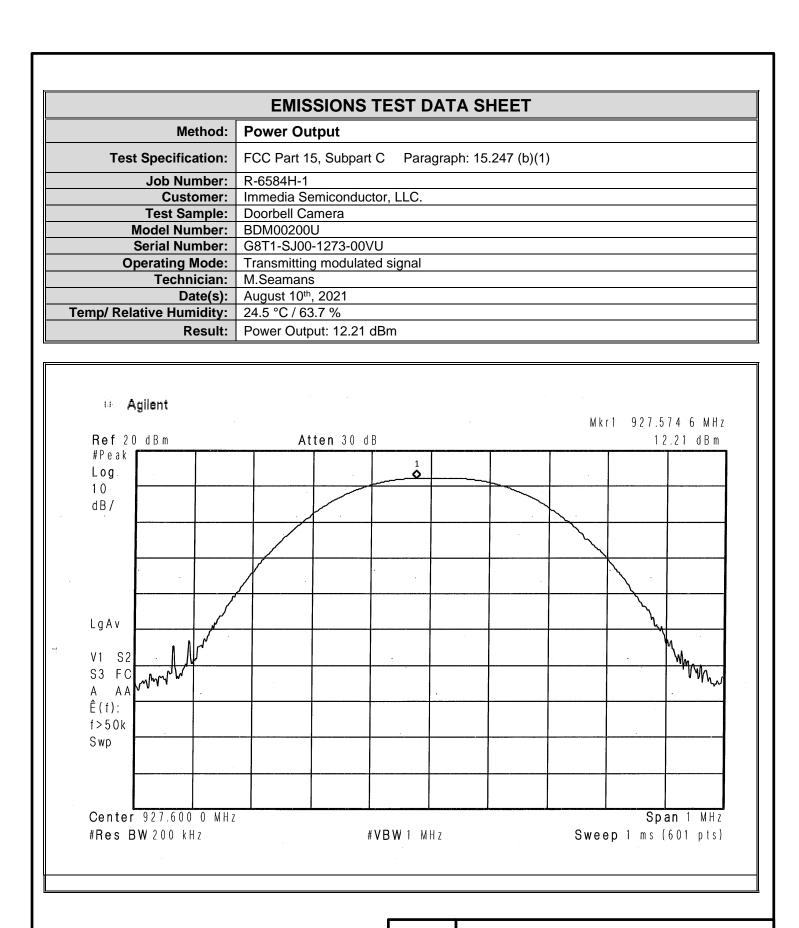
FCC Section 15.247 (a)(1) Peak Conducted Output Power Test Data



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



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Out Of Band Test Data



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	Metho	di C	onducte		TEST [
Test	Specificatio	n: F(CC Part 15	5, Subpar	t C Para	agraph: 15	5.247 (d)			
	Job Numbe		-6584H-1							
	Custome		nmedia Se		ctor, LLC.					
	Test Sampl		oorbell Ca							
	lodel Numbe		DM002001		// 1					
	Serial Numbe		8T1-SJ00-							
Op	erating Mod Technicia		ransmitting I.Seamans		ed signal	Low Char	nnei)			
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	EMISSIONS TEST DATA SHEET							
Method:	Method: Conducted Out of Band							
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)							
Job Number:	R-6584H-1							
Customer:	Immedia Semiconductor, LLC.							
Test Sample:	Doorbell Camera							
Model Number:	BDM00200U							
Serial Number:	G8T1-SJ00-1273-00VU							
Operating Mode:	Transmitting modulated signal (Low Channel)							
Technician:	M.Seamans							
	August 11 th , 2021							
	23.8 °C / 65.0 %							
Notes:	Limit: -7.45 dBm							
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1 GHz to 9.3 GHz								
	Retlif Testing Laboratories							
	Report No. R-6584H-1							

		EMIS	SIONS	TEST D	ATA SI	HEET			
	Method:	Conducte	d Out of	Band					
Tes	t Specification:	FCC Part 1	5, Subpart	C Para	graph: 15	.247 (d)			
	Job Number:	R-6584H-1							
	Customer:		emiconduc	tor, LLC.					
	Test Sample:								
	Model Number:								
	Serial Number:								
0	perating Mode:		0	ed signal (Mid Chani	nel)			
	Technician: Date(s):								
[emp/ Rel	ative Humidity:		<u>, 2021</u> 50%						
	Notes:								
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Test Specification: FCC Part 15, Subpart C Paragraph: 15.247 (d) Job Number: R-6584H-1										
Job Number: R-6584H-1 Customer: Immedia Semiconductor, LLC. Test Sample: Doorbell Camera Model Number: BDM00200U Serial Number: G811-SJ00-1273-00VU Operating Mode: Transmitting modulated signal (Mid Channel) Technician: M.Seamans Date(s): August 11 th , 2021 // Relative Humidity: 23.8 °C / 65.0 % Notes: Limit: -7.45 dBm	Conducte	d Out of	Band							
Customer: Immedia Semiconductor, LLC. Test Sample: Doorbell Camera Model Number: BDM00200U Serial Number: G8T1-SJ00-1273-00VU Operating Mode: Transmitting modulated signal (Mid Channel) Technician: M.Seamans Date(s): August 11 th , 2021 // Relative Humidity: 23.8 °C / 65.0 % Notes: Limit: -7.45 dBm	FCC Part 1	5, Subpart	C Para	agraph: 15.	.247 (d)					
Test Sample: Doorbell Camera Model Number: BDM00200U Serial Number: G8T1-SJ00-1273-00VU Operating Mode: Transmitting modulated signal (Mid Channel) Technician: M.Seamans Date(s): August 11 ^m , 2021 / Relative Humidity: 23.8 °C / 65.0 % Notes: Limit: -7.45 dBm		584H-1								
Model Number: BDM00200U Serial Number: G811-SJ00-1273-00VU Operating Mode: Transmitting modulated signal (Mid Channel) Technician: M.Seamans Date(s): August 11 th , 2021 /Relative Humidity: 23.8 °C / 65.0 % Notes: Limit: -7.45 dBm # Agilent Mkr1 1.827 GH -52.69 dBm # Agilent Mkr1 1.827 GH # Agilent Mkr1 1.8			tor, LLC.							
Serial Number: G&T1-SJ00-1273-00VU Operating Mode: Transmitting modulated signal (Mid Channel) Technician: M.Seamans Date(s): August 11 ^h , 2021 / Relative Humidity: 23.8 °C / 65.0 % Notes: Limit: -7.45 dBm # Agilent Mkr1 1.827 GH # Agilent # Atten 26 dB -52.69 dBm # Agilent # Atten 26 dB # Att										
Operating Mode: Transmitting modulated signal (Mid Channel) Technician: M.Seamans Date(s): August 11 th , 2021 (Relative Humidity: 23.8 °C / 65.0 % Notes: Limit: -7.45 dBm # Agilent #Atten 26 dB -52.69 dBm g			/1.1							
Technician: M.Seamans Date(s): August 11 ^m , 2021 / Relative Humidity: 23.8 °C / 65.0 % Notes: Limit: -7.45 dBm * Aglient # Aglient Mkr1 1.827 GH g # Atten 26 dB -52.69 dBm g # Atten 26 dB # Atten 26 dB g # Atten 26 dB # Atten 26 dB g # Atten 26 dB # Atten 26 dB g # Atten 26 dB # Atten 26 dB g # Atten 26 dB # Atten 26 dB g # Atten 26 dB # Atten 26 dB g # Att				Mid Chanr	nel)					
Date(s): August 11 th , 2021 Relative Humidity: 23.8 °C / 65.0 % Notes: Limit: -7.45 dBm * Agilent Mkr1 1.827 GH * Agilent Mkr1 1.827 GH g # Atten 26 dB -52.69 dBm //			u signar (
Notes: Limit: -7.45 dBm * Agilent Mkr1 1.827 GH -52.69 dBm f 16 dBm #Atten 26 dB g	August 11 th ,	2021								
* Agilent Mkr1 1.827 GH * Agilent * Atten 26 dB -52.69 dBm * ak -52.69 dBm -52.69 dBm g - - - / - - - / - - - / - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	23.8 °C / 65	5.0 %								
Mkr1 1.827 GH g -52.69 dBm g - / -	Limit: -7.45	dBm								
Mkr1 1.827 GH g -52.69 dBm g - / -										
Mkr1 1.827 GH g -52.69 dBm g - / -										
Mkr1 1.827 GH g -52.69 dBm g - / -	•			•						
f 16 dBm #Atten 26 dB -52.69 dBm g							Mkr1 1	827 GH		
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m Av S2 S2 FC AA AA A										
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•										
•		A	,				Stop 9	300 GH;		
		#\	/BW 300	k H 7		#Swee	-			
9.3 GHz										
9.3 GHz										
9.3 GHz										
9.3 GHz				R	-					
					Retlif	Testin	d Labo	ratori		
9.3 GHz Retlif Testing Laboratori					Retlif	Testin	g Labo	ratori		
		Conducter FCC Part 15 R-6584H-1 Immedia Se Doorbell Ca BDM002000 G8T1-SJ00 Transmitting M.Seamans August 11 th 23.8 °C / 65 Limit: -7.45	Conducted Out of FCC Part 15, Subpart R-6584H-1 Immedia Semiconduc Doorbell Camera BDM00200U G8T1-SJ00-1273-00V Transmitting modulate M.Seamans August 11 th , 2021 23.8 °C / 65.0 % Limit: -7.45 dBm #Atten 26 d	Conducted Out of Band FCC Part 15, Subpart C Para R-6584H-1 Immedia Semiconductor, LLC. Doorbell Camera BDM00200U G8T1-SJ00-1273-00VU Transmitting modulated signal (M.Seamans August 11 th , 2021 23.8 °C / 65.0 % Limit: -7.45 dBm #Atten 26 dB #Atten 26 dB	Conducted Out of Band FCC Part 15, Subpart C Paragraph: 15. R-6584H-1 Immedia Semiconductor, LLC. Doorbell Camera BDM00200U G8T1-SJ00-1273-00VU Transmitting modulated signal (Mid Channer M.Seamans August 11 th , 2021 23.8 °C / 65.0 % Limit: -7.45 dBm	FCC Part 15, Subpart C Paragraph: 15.247 (d) R-6584H-1 Immedia Semiconductor, LLC. Doorbell Camera BDM00200U G8T1-SJ00-1273-00VU Transmitting modulated signal (Mid Channel) M.Seamans August 11 th , 2021 23.8 °C / 65.0 % Limit: -7.45 dBm #Atten 26 dB	Conducted Out of Band FCC Part 15, Subpart C Paragraph: 15.247 (d) R-6584H-1 Immedia Semiconductor, LLC. Doorbell Camera BDM00200U G8T1-SJ00-1273-00VU Transmitting modulated signal (Mid Channel) M.Seamans August 11 th , 2021 23.8 °C / 65.0 % Limit: -7.45 dBm #Atten 26 dB #Atten 26 dB	Conducted Out of Band FCC Part 15, Subpart C Paragraph: 15.247 (d) R-6584H-1 Immedia Semiconductor, LLC. Doorbell Camera BDM00200U G871-SJ00-1273-00VU Transmitting modulated signal (Mid Channel) M.Seamans August 11th, 2021 23.8 °C / 65.0 % Limit: -7.45 dBm		

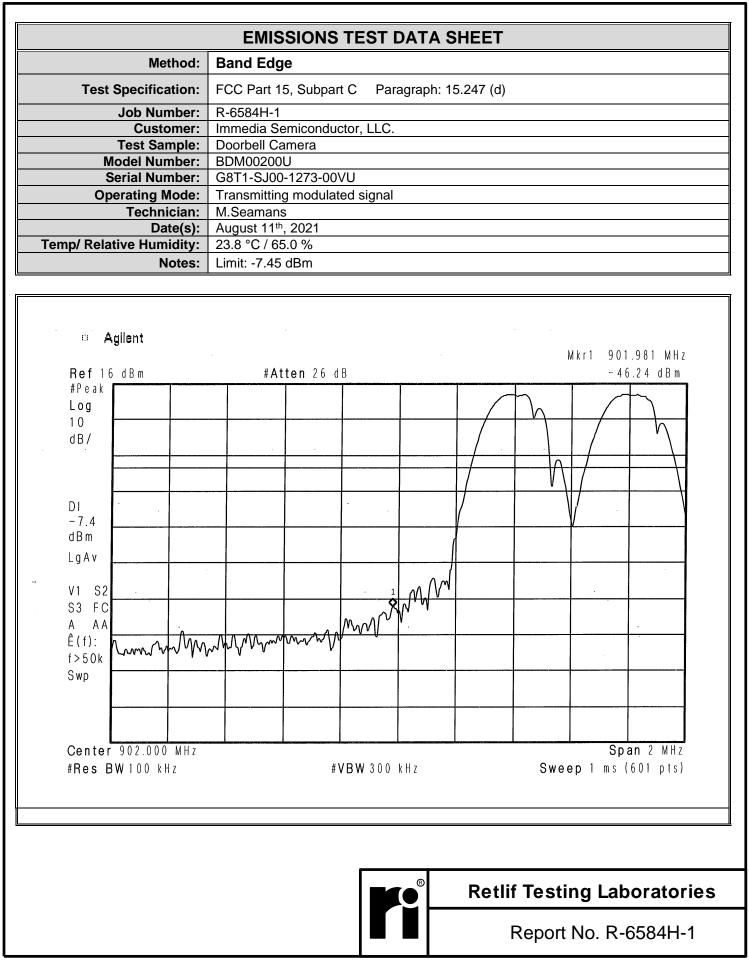
	EMI	SSIONS	TEST [DATA S	HEET					
Method:	Conduct	ed Out of	Band							
Test Specification:	FCC Part	C Part 15, Subpart C Paragraph: 15.247 (d)								
Job Number:					. ,					
Customer:			ctor, LLC.							
Test Sample:			,							
Model Number:										
Serial Number:										
Operating Mode:		-	ed signal ((High Cha	nnel)					
Technician										
Date(s):		ⁿ , 2021								
Temp/ Relative Humidity:										
Notes:	Limit: -7.4	aBm								
Ref 16 dBm #Peak	#A	tten 26 d	В		T				- -	
Log								1		
10		-							1	
dB/										
								1		
DI -7.4										
dBm										
LgAv										
- 9								1		
- V1 S2										
S3 FC										
A AA										
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FTun								<u> </u>		
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Start 25.0 MHz							Stop 1 0	00 0 GHz	J	
#Res BW 100 kHz		# \	/BW 300	k H z	S	weep 32		2500 pts)		
25 MHz to 1 GHz										
									<u> </u>	
										
					Retlif	Testir	ng Lab	oratori	es	
					F	Report	No. R-6	6584H-1	I	

	EMISSIONS TEST DATA SHEET								
Method:	Conducted Out of Band								
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)								
Job Number:	R-6584H-1								
Customer:									
Test Sample:	Doorbell Camera								
Model Number:	BDM00200U								
Serial Number:	G8T1-SJ00-1273-00VU								
Operating Mode:	Transmitting modulated signal (High Channel)								
Technician:	M.Seamans								
Date(s): Temp/ Relative Humidity:	August 11 th , 2021 23.8 °C / 65.0 %								
Notes:	Limit: -7.45 dBm								
Notes.									
Ref 16 dBm	#Atten 26 dB								
#Peak									
Log									
10									
dB/									
DI									
- 7.4									
dBm									
Lg A v									
-									
V1 S2									
S3 FC A AA									
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Swp many manual a ladrow	have a strange of the head of the strange of the st								
├ ───┼───									
Start 1.000 GHz #Res BW 100 kHz	Stop 9.300 GHz #VBW 300 kHz #Sweep 25 s (2500 pts)								
1 GHz to 9.3 GHz									
	Retlif Testing Laboratories								
	Report No. R-6584H-1								

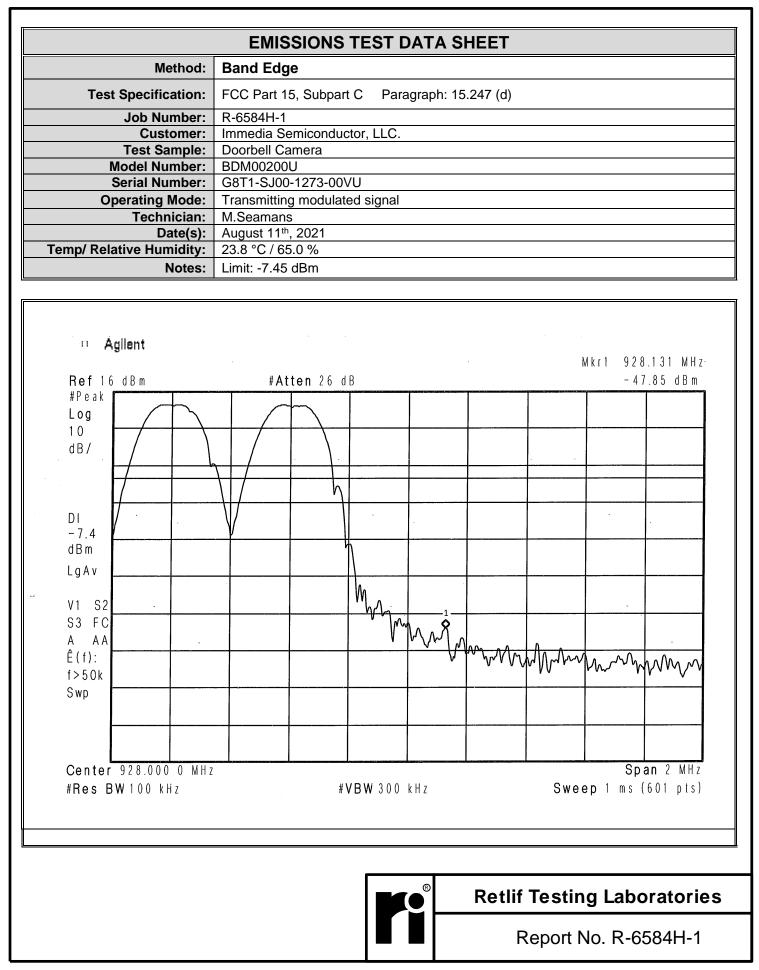
Band Edge Test Data



Retlif Testing Laboratories



Page 38 of 53



Unwanted Emissions in Restricted Frequency Bands 25 MHz to 9.3 GHz Test Data



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		REII		STING LA	BORATOR							
			EMISSI	ONS TEST DA	TA SHEET							
est Method		Unwanted Ei	missions in	Restricted Frequ	uency Bands							
Customer		Immedia Ser	niconductor	, LLC.	•							
ob Number		R-6584H-1										
est Sample		Doorbell Car										
lodel Numb		BDM00200U	0200U									
erial Numbe	ər	G8T1-SJ00-	1273-00VU									
est Specific	ation	FCC Part 15	Subpart C				Paragraph: 15.247(d)					
Operating Mo	ode	Transmitting	modulated	signal								
echnician		M. Seamans										
Date		August 11 th ,	2021									
Notes: AN	SI C63.10, pa	aragraph 11.	12.2.5.3 (Qu	uasi-Peak < 1Gł	Hz, Average >1G⊦	Iz Measureme	ents)					
conservativ	e antenna ga	ain value of 2	.15 dBi was	utilized for this	test.							
			TE	ST PARAME	TERS							
Restricted Band	Measured Frequency	Meter Reading	Antenna Gain		Corrected Reading	Converted Field Strength	Converted Reading	Limit				
MHz	MHz	dBm	dB		dBm	dBuV/m	uV/m	uV/m				
37.50	-	-	-		-	-	-	100.00				
I	38.00*	-73.76	-		-73.76	21.498	11.882					
38.25	-	-	-		-	-	-	100.00				
73.00	-	-	-		-	-	-	100.00				
	74.00*	-73.77	-		-73.77	21.488	11.868	1				
74.60	-	-	-		-	-	-	100.00				
74.80	-	-	-		-	-	-	100.00				
	75.00*	-73.81	-		-73.81	21.448	11.814					
75.20	-	-	-		-	-	-	100.00				
108.00	-	-	-		-	-	-	100.00				
	115.00*	-73.70	-		-73.70	21.558	11.964					
1	-	-	-			-	-	100.00				
 121.94								100.00				
 121.94			1					400.00				
	_	-	-		-	-	-	1 ()() ()()				
 121.94 123.00	- 130.00*		-				- 11.950	100.00				
	- 130.00* -	-73.71			-73.71	- 21.548 -	- 11.950 -	100.00				

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).



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EMISSIONS TEST DATA SHEET								
Test Method	Unwanted Emissions into Restricted Frequency Bands							
Customer	Immedia Semiconductor, LLC.							
Job Number	R-6584H-1							
Test Sample	Test Sample Doorbell Camera							
Model Number	Model Number BDM00200U							
Serial Number	G8T1-SJ00-1273-00VU							
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)						
Operating Mode	Transmitting modulated signal							
Technician	M. Seamans							
Date	August 11 th , 2021							
Notes: ANSI C63.10, pa	aragraph 11.12.2.5.3 (Quasi-Peak < 1GHz, Average >1GHz Measuremen	ts)						

A conservative antenna gain value of 2.15 dBi was utilized for this test.

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3N
MHz	MHz	dBm	dB	dBm	dBuV/m	uV/m	uV/m
149.90	-	-	-	-	-	-	100.0
I	150.00*	-73.65	-	-73.65	21.608	12.033	I
150.05	-	-	-	 -	-	-	100.0
156.52	-	-	-	-	-	-	100.0
I	156.52*	-73.61	-	-73.61	21.648	12.089	I
156.52	-	-	-	-	-	-	100.0
156.70	-	-	-	-	-	-	100.0
	156.80*	-73.61	-	-73.61	21.648	12.089	
156.90	-	-	-	 -	-	-	100.0
162.01	-	-	-	-	-	-	150.0
	165.00*	-73.62	-	-73.62	21.638	12.075	
167.17	-	-	-	-	-	-	150.0
167.72	-	-	-	-	-	-	150.0
	170.00*	-73.66	-	-73.66	21.598	12.019	
173.20	-	-	-	-	-	-	150.0

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



Retlif Testing Laboratories

		RET	LIF TE	STING	LABO	ORATOF	ries —			
			EMISS	IONS TES	ST DATA	SHEET				
Test Metho	d	Unwanted	I Emissions	into Restric	ted Frequ	uency Bands				
Customer		Immedia S	Semiconduc	tor, LLC.		•				
Job Numbe										
Test Sample Doorbell Camera										
Model Num		BDM0020								
Serial Num	ber	G8T1-SJ0	0-1273-00	/U						
Test Specif	cificationFCC Part 15 Subpart CParagraph: 15.247(d)									
Operating M	/lode	Transmitti	ng modulat	ed signal						
Technician		M. Seama	ans							
Date August 11 th , 2021										
Notes: Al	NSI C63.10, p	aragraph 11	1.12.2.5.3 (0	Quasi-Peak	< 1GHz,	Average >1G	Hz Measuren	nents)		
	ive antenna ga	ain value of	2 15 dBi wa	s utilized fo	or this test					
A conservat	ive antenna ga		2.15 001 002							
			TE	ST PARA	METER	RS				
Restricted Band	Measured Frequency	Meter Reading	Antenna Gain			Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M	
MHz	MHz	dBm	dB			dBm	dBuV/m	uV/m	uV/m	
240.00	-	-	-			-	-	-	200.00	
	260.00*	-73.41	-			-73.41	21.848	12.370		
285.00	-	-	-			-	-	-	200.00	
322.80	-	-	-			-	-	-	200.00	
	330.00*	-73.30	-			-73.30	21.958	12.528		
335.40	-	-	-			-	-	-	200.00	
399.90	-	-	-			-	-	-	200.00	

410.00 ------200.00 608.00 ------200.00 611.00* -72.95 -72.95 22.308 13.043 -614.00 ------200.00 960.00 ------500.00 975.00* -72.78 -72.78 -22.478 13.301 1240.00 ------500.00 1300.00 ------500.00 1350.00* 21.998 -68.41 --68.41 26.848 -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

-73.15

22.108

12.746

405.00*

-73.15

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	EMISSIONS TEST DATA SHEET							
Test Method	Unwanted Emissions into Restricted Frequency Bands							
Customer	Immedia Semiconductor, LLC.							
Job Number	R-6584H-1							
Test Sample	Doorbell Camera							
Model Number BDM00200U								
Serial Number	G8T1-SJ00-1273-00VU							
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)						
Operating Mode	Transmitting modulated signal							
Technician	M. Seamans							
Date August 11 th , 2021								
Notes: ANSI C63.10	, paragraph 11.12.2.5.3 (Average Measurements)							
A concertative enterna	gain value of 2.15 dBi was utilized for this test.							

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain		Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB		dBm	dBuV/m	uV/m	uV/m
1435.00	-	-	-		-	-	-	500.00
	1500.00*	-68.34	-		-68.34	26.918	22.176	
1646.50	-	-	-		-	-	-	500.00
1660.00	-	-	-		-	-	-	500.00
	1680.00*	-68.16	-		-68.16	27.098	22.640	
1710.00	-	-	-		-	-	-	500.00
1718.80	-	-	-		-	-	-	500.0
	1720.00*	-68.18	-		-68.18	27.078	22.588	
1722.20	-	-	-		-	-	-	500.00
2200.00	-	-	-		-	-	-	500.00
	2250.00*	-67.72	-		-67.72	27.538	23.817	
2300.00	-	-	-		-	-	-	500.00
2310.00	-	-	-		-	-	-	500.0
	2360.00*	-67.63			-67.63	27.628	24.065	
2390.00	-	-	-		-	-	-	500.0
2483.50	-	-	-		-	-	-	500.0
	2490.00*	-67.40			-67.40	27.858	24.710	
2500.00	-	-	-	were observed at	-	-	-	500.0



Job Number R-6584H-1 Test Sample Doorbell Camera Model Number BDM0200U Serial Number G8T1-SJ00-1273-00VU Test Specification FCC Part 15 Subpart C Paragraph: 15.247(d) Operating Mode Transmitting modulated signal Technician M. Seamans Date August 11 ^P , 2021 Notes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A conservative antenna gain value of 2.15 dBi was utilized for this test. TEST PARAMETERS Converted Field Strength Converted Reading Converted Reading Converted Reading Limit at 3W MHz MHz dBm dB dBm dBm uV/m uV/m uV/m uV/m 2900.00 - - - - - 500.00 1 2743.00 -57.29 2.15 -55.14 40.118 101.36 1 2900.00 - - - - 500.00 - 500.00 33260.00 - - - - 500.00 - <t< th=""><th></th><th></th><th></th><th>FMISS</th><th>TEST DATA S</th><th>HEET</th><th></th><th></th><th></th></t<>				FMISS	TEST DATA S	HEET			
Customer Immedia Semiconductor, LLC. Job Number R-6584H-1 Test Sample Doorbeil Camera Model Number BDM00200U Serial Number G871-SJ00-1273-00VU Test Specification FCC Part 15 Subpart C Operating Mode Transmitting modulated signal Technician M. Seamans Date August 11 ^m , 2021 Notes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A conservative antenna gain value of 2.15 dBi was utilized for this test. TEST PARAMETERS Restricted Measured Reading Gain MHz MHz dBm dBm dBm dV/m uV/m 2690.00 - - - - 500.00 1 2743.00 -57.29 2.15 -55.14 40.118 101.36 1 2900.00 - - - - - 500.00 1 3263.00* -66.16 - - 500.00 3332.00 - - -	Test Metho	d	Unwanter						
Job Number R-6584H-1 Test Sample Doorbell Camera Model Number BDM00200U Serial Number G871-SJ00-1273-00VU Test Sapecification FCC Part 15 Subpart C Paragraph: 15.247(d) Operating Mode Transmitting modulated signal Paragraph: 15.247(d) Technician M. Seamans Paragraph: 15.247(d) Notes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A conservative antenna gain value of 2.15 dBi was utilized for this test. TEST PARAMETERS Restricted Band Meter Frequency Antenna Gain Corrected Reading Converted Strength Converted Reading Limit at 3M 0490.00 - - - - - 500.00 1 2260.00 - - - 500.00 500.00 1 3260.00 - - - - 500.00 1 3260.00 - - - - 500.00 3332.00 - - - - 500.00		4				iby Danus			
Test Sample Doorbell Camera Model Number BDM00200U Serial Number G8T1-SJ00-1273-00VU Test Specification FCC Part 15 Subpart C Paragraph: 15.247(d) Operating Mode Transmitting modulated signal Paragraph: 15.247(d) Operating Mode Transmitting modulated signal Paragraph: 15.247(d) Otes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A conservative antenna gain value of 2.15 dBi was utilized for this test. Restricted Measured Reading Meter Reading Antenna Gain Corrected Reading Converted Strength Converted at 3M Limit at 3M MHz MBm dBm dBuv/m uV/m uV/m uV/m 2690.00 - - - - 500.00 - 1 2743.00 -57.29 2.15 -55.14 40.118 101.36 1 2900.00 - - - - - 500.00 3260.00 - - - - 500.00 3322.00 - -		r			0.				
Model Number BDM00200U Serial Number G8T1-SJ00-1273-00VU Test Specification FCC Part 15 Subpart C Paragraph: 15.247(d) Operating Mode Transmitting modulated signal Paragraph: 15.247(d) Test Specification M. Seamans Paragraph: 15.247(d) Notes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A conservative antenna gain value of 2.15 dBi was utilized for this test. TEST PARAMETERS Restricted Band Measured Frequency Meter Reading Antenna Gain Corrected Reading Converted Field Strength Converted Reading Limit at 300 MHz MHz dBm dB dBm dBuV/m uV/m									
Serial Number G3T1-SJ00-1273-00VU Test Specification FCC Part 15 Subpart C Paragraph: 15.247(d) Operating Mode Transmitting modulated signal Paragraph: 15.247(d) Technician M. Seamans Paragraph: 15.247(d) Date August 11*, 2021 Paragraph: 15.247(d) Notes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A conservative antenna gain value of 2.15 dBi was utilized for this test. Restricted Measured Frequency Meter Reading Antenna Gain Corrected Reading Converted Field Strength Converted Reading Limit Restricted 900.00 - - - - - 500.00 i 2743.00 -57.29 2.15 -55.14 40.118 101.36 2900.00 - - - - - 500.00 i 3260.00 - - - - 500.00 i 332.00 - - - 500.00 i 3336.00* -66.15 29.128 28.501 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Test Specification FCC Part 15 Subpart C Paragraph: 15.247(d) Operating Mode Transmitting modulated signal									
Test Specification FCC Part is Subject C 15.247(d) Operating Mode Transmitting modulated signal 15.247(d) Technician M. Seamans 1 Date August 11 th , 2021 1 Notes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A A conservative antenna gain value of 2.15 dBi was utilized for this test. Converted Converted Reading Reading Converted Reading at 30 MHz MHz dBm dB dBm dBu/m uV/m uV/m uV/m 2690.00 - - - - - 500.00 1 2743.00 -57.29 2.15 -55.14 40.118 101.36 1 2900.00 - - - - - 500.00 1 3263.00° -66.16 - - 500.00 23260.00 - - - - 500.00 1 3336.00° - - - 500.00	Senai Num		0011-000	0-1275-00				Paragrar	sh:
Technician M. Seamans Date August 11 th , 2021 Notes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A conservative antenna gain value of 2.15 dBi was utilized for this test. TEST PARAMETERS Restricted Frequency Meter Reading Gain Corrected Reading Converted Reading Strength Converted Reading Strength Converted Reading at 3W MHz MHz dBm dB dBm dBu/m uV/m uV/m uV/m 2900.00 - - - - - 55.14 40.118 101.36 1 2900.00 - - - - - 500.01 1 2743.00 -57.29 2.15 - 55.14 40.118 101.36 1 3260.00 - - - - - 500.01 1 3263.00 ⁺ -66.16 29.098 28.502 1 3332.00 - - - - 500.01 33339.00 -	-								
Date August 11 th , 2021 Notes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A conservative antenna gain value of 2.15 dBi was utilized for this test. TEST PARAMETERS Restricted Band Measured Frequency Meter Reading Corrected Field Gain Corrected Reading Strength Converted Field Reading Strength Converted Reading Strength Converted Reading Strength Limit Reading Strength MHz MHz dBm dB dBm dBW/m uV/m uV/m uV/m 2690.00 - - - - - 500.00 1 2743.00 -57.29 2.15 -55.14 40.118 101.36 1 2900.00 - - - - - 500.00 1 3263.00* -66.16 - - - 500.00 33260.00 - - - - 500.00 3332.00 - - - - 500.00 3335.00 - - - -					al				
Notes: ANSI C63.10, paragraph 11.12.2.5.3 (Average Measurements) A conservative antenna gain value of 2.15 dBi was utilized for this test. TEST PARAMETERS Restricted Band Measured Frequency Meter Reading Antenna Gain Corrected Reading Converted Strength Converted Reading Limit a 3W MHz MHz dBm dB dBm dBuV/m uV/m	Technician								
A conservative antenna gain value of 2.15 dBi was utilized for this test. TEST PARAMETERS Restricted Band Measured Frequency Meter Reading Antenna Gain Corrected Reading Converted Strength Converted Reading Converted I at 3M MHz MHz dBm dB dBm dBuV/m uV/m u	Date		August 11	th , 2021					
Restricted Band Measured Frequency Meter Reading Antenna Gain Corrected Reading Converted Field Strength Converted Reading Converted Reading	Notes: A	NSI C63.10, p	aragraph 11	1.12.2.5.3 (4	Measurements)			
Restricted Band Measured Frequency Meter Reading Antenna Gain Corrected Reading Converted Reading Converted Reading Limit al 3M MHz MHz dBm dB dB dB u//m u//m u//m u//m 2690.00 - - - - - - 50.00 1 2743.00 -57.29 2.15 -55.14 40.118 101.36 1 2900.00 - - - - - 500.00 2600.00 - - - - - 500.00 3260.00 - - - - - 500.00 3267.00 - - - - - 500.00 3332.00 - - - - - 500.00 1 3336.00* -66.15 29.108 28.535 1 3345.00 - - - - 500.00 1	A conservat	ive antenna ga	ain value of	2.15 dBi wa	ed for this test.				
Restricted Band Measured Frequency Meter Reading Antenna Gain Corrected Reading Converted Reading Converted Reading Limit al 3M MHz MHz dBm dB dB dB u//m u//m u//m u//m 2690.00 - - - - - - 50.00 1 2743.00 -57.29 2.15 -55.14 40.118 101.36 1 2900.00 - - - - - 500.00 2690.00 - - - - - 500.00 2900.00 - - - - - 500.00 3260.00 - - - - - 500.00 3267.00 - - - - 500.00 3332.00 - - - - 500.00 33339.00 - - - - 500.00 3345.00 -				TE	RAMETERS				
MHz dBm dB dBm dBuV/m uV/m uV/m 2690.00 - - - - 500.00 2743.00 -57.29 2.15 -55.14 40.118 101.36 2900.00 - - - - - 500.00 2000.00 - - - - - 500.00 2800.00 - - - - - 500.00 1 3263.00* -66.16 - - - - 500.00 1 3263.00* -66.16 - - - - 500.00 1 3263.00* -66.15 - - - 500.00 1 3336.00* -66.15 - - - 500.00 1 3336.00* -66.13 - - - 500.00 3345.00 - - - - 500.00				Antenna	C	Corrected	Field		Limit at 3M
2690.00 - - - - - 500.00 2743.00 -57.29 2.15 -55.14 40.118 101.36 2900.00 - - - - - 500.00 3260.00 - - - - - 500.00 3263.00* -66.16 - - - - 500.00 3263.00* -66.16 - - - - 500.00 3263.00* -66.16 - - - - 500.00 3263.00* -66.15 - - - - 500.00 3336.00* - - - - - 500.00 33350.00* - - - - - 500.00 3350.00* - - - - - 500.00 3358.00	MHz	MHz	dBm	dB		dBm		uV/m	uV/m
2743.00 -57.29 2.15 -55.14 40.118 101.36 2900.00 - - - - - 500.00 3260.00 - - - - - 500.00 3263.00* -66.16 - - - - 500.00 3263.00* -66.16 - - - - 500.00 3267.00 - - - - - 500.00 3267.00 - - - - - 500.00 3267.00 - - - - - 500.00 3326.00 - - - - - 500.00 3336.00* -66.15 - - 500.00 3350.00* -66.13 - - 500.00 3350.00* -66.13 29.128 28.601 3000.00 - - - - - 500.00 3700.00*			abiii	40			aBut/iii		
2900.00 - - - - 500.00 3260.00 - - - - 500.00 1 3263.00* -66.16 - - - 500.00 1 3263.00* -66.16 - - - - 500.00 1 3263.00* -66.16 - - - - 500.00 3267.00 - - - - - - 500.00 3332.00 - - - - - 500.00 1 3336.00* -66.15 - - - 500.00 339.00 - - - - - 500.00 3345.00 - - - - - 500.00 1 3350.00* -66.13 - - - 500.00 3600.00 - - - - - 500.00 1 3700.00* -66.18 - - - 500.00 4400.00 - </td <td>2690.00</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>500.00</td>	2690.00	-	-	-		-	-	-	500.00
3260.00 - - - - - 500.00 1 3263.00* -66.16 - - - - 500.00 3267.00 - - - - - - 500.00 3267.00 - - - - - - - 500.00 332.00 - - - - - - 500.00 1 3336.00* -66.15 - - - - 500.00 1 3336.00* -66.15 - - - - 500.00 3345.00 - - - - - 500.00 1 3350.00* -66.13 - - - 500.00 3358.00 - - - - - 500.00 3600.00 - - - - - 500.00 1 3700.00* -66.18 - <td> </td> <td>2743.00</td> <td>-57.29</td> <td>2.15</td> <td></td> <td></td> <td>40.118</td> <td>101.36</td> <td></td>		2743.00	-57.29	2.15			40.118	101.36	
1 3263.00* -66.16 - -66.16 29.098 28.502 1 3267.00 - - - - - - 500.00 3332.00 - - - - - - 500.00 1 3336.00* -66.15 - - - - 500.00 1 3336.00* -66.15 - - - - - 500.00 3339.00 - - - - - - 500.00 3345.00 - - - - - - 500.00 1 3350.00* -66.13 - - - - 500.00 1 3358.00 - - - - - 500.00 3600.00 - - - - - - 500.00 1 3700.00* -66.18 - - - - 500.00 4400.00 - - - - - - 500.00<	2900.00	-	-	-		-	-	-	500.00
1 3263.00* -66.16 - -66.16 29.098 28.502 1 3267.00 - - - - - - 500.00 3332.00 - - - - - - 500.00 1 3336.00* -66.15 - - - - 500.00 1 3336.00* -66.15 - - - - 500.00 3339.00 - - - - - - 500.00 3345.00 - - - - - - 500.00 1 3350.00* -66.13 - - - - 500.00 1 3358.00 - - - - - 500.00 3600.00 - - - - - - 500.00 1 3700.00* -66.18 - - - - 500.00 4400.00 - - - - - - 500.00									
3267.00 - - - - - 500.00 3332.00 - - - - - 500.00 3332.00 - - - - - 500.00 1 3336.00* -66.15 - - - - 500.00 3339.00 - - - - - - 500.00 3345.00 - - - - - 500.00 1 3350.00* -66.13 - - - 500.00 1 3350.00* -66.13 - - 500.00 3358.00 - - - - 500.00 3360.00 - - - - 500.00 1 3700.00* -66.18 29.078 28.437 1 4400.00 - - - - 500.00 - - - - -	3260.00			-					500.00
Image: Signal state of the specified test distance throughout the given frequency spectrum. * This emission is not from		3263.00*	-66.16	-		-66.16	29.098	28.502	
3336.00* -66.15 - -66.15 29.108 28.535 - 3339.00 - - - - - - 500.00 3345.00 - - - - - - 500.00 3350.00* -66.13 - - - - 500.00 3350.00* -66.13 - - - - 500.00 3358.00 - - - - - 500.00 3600.00 - - - - - - 500.00 3700.00* -66.18 - - - - 500.00 3700.00* -66.18 - - - - 500.00 3700.00* -66.18 - - - - 500.00 4400.00 - - - - - 500.00 4583.00 -57.29 2.15 -55.14 40.118 101.360	3267.00	-	-	-		-	-	-	500.00
3336.00* -66.15 - -66.15 29.108 28.535 - 3339.00 - - - - - - 500.00 3345.00 - - - - - - 500.00 3350.00* -66.13 - - - - 500.00 3350.00* -66.13 - - - - 500.00 3358.00 - - - - - 500.00 3600.00 - - - - - - 500.00 3700.00* -66.18 - - - - 500.00 3700.00* -66.18 - - - - 500.00 3700.00* -66.18 - - - - 500.00 4400.00 - - - - - 500.00 4583.00 -57.29 2.15 -55.14 40.118 101.360	3332.00	-	-	-		-	-	-	500.00
3339.00 - - - - 500.00 3345.00 - - - - 500.00 3350.00* -66.13 - - - 500.00 3350.00* -66.13 - - - 500.00 3350.00* -66.13 - - - - 500.00 3358.00 - - - - - - 500.00 3600.00 - - - - - 500.00 3700.00* -66.18 - - - - 500.00 3700.00* -66.18 - - - - 500.00 3700.00* -66.18 - - - - 500.00 4400.00 - - - - - 500.00 4500.00 - - - - - 500.00 4583.00 -57.29 2.15 -55.14 40		3336.00*	-66 15	-		-66 15	29 108	28 535	1
3345.00 - - - - - 500.00 3350.00* -66.13 - - - - 500.00 3350.00* -66.13 - - - - 500.00 3358.00 - - - - - - 500.00 3358.00 - - - - - - 500.00 3360.00 - - - - - - 500.00 1 3700.00* -66.18 - - - - 500.00 1 3700.00* -66.18 - - - - 500.00 4400.00 - - - - - - 500.00 4500.00 - - - - - - 500.00 4500.00 - - - - - - 500.00 1 4583.00 -57.29 2.15 -55.14 40.118 101.360 1 <	3339.00	-	-			-		-	500.00
I 3350.00* -66.13 - - - - - - 500.00 3358.00 - - - - - - - 500.00 3358.00 - - - - - - - 500.00 3600.00 - - - - - - 500.00 I 3700.00* -66.18 - - - - 500.00 I 3700.00* -66.18 - - - - 500.00 I 3700.00* -66.18 - - - - 500.00 4400.00 - - - - - - 500.00 4400.00 - - - - - 500.00 4500.00 - - - - - 500.00 I 4583.00 -57.29 2.15 -55.14 40.118 101.360 I 5150.00 - - - - - 500.	0000.00								500.00
3350.00* -66.13 - -66.13 29.128 28.601 3358.00 - - - - - - 500.00 3358.00 - - - - - - 500.00 3600.00 - - - - - 500.00 3700.00* -66.18 - - - 500.00 3700.00* -66.18 - - - 500.00 3700.00* -66.18 - - - 500.00 3700.00* -66.18 - - - 500.00 4400.00 - - - - 500.00 4500.00 - - - - 500.00 4583.00 -57.29 2.15 -55.14 40.118 101.360 5150.00 - - - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum.<	2245.00								500.00
3358.00 - - - - 500.00 3600.00 - - - - - 500.00 3600.00 - - - - - 500.00 1 3700.00* -66.18 - - - - 500.00 1 3700.00* -66.18 - - - - 500.00 4400.00 - - - - - - 500.00 4400.00 - - - - - 500.00 4400.00 - - - - - 500.00 4500.00 - - - - - 500.00 4500.00 - - - - - 500.00 1 4583.00 -57.29 2.15 -55.14 40.118 101.360 1 5150.00 - - - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from	1	-	66.12	-			-	-	500.00
3600.00 - - - - 500.00 1 3700.00* -66.18 - - - - 500.00 1 3700.00* -66.18 - - - - 500.00 4400.00 - - - - - - 500.00 4400.00 - - - - - - 500.00 4500.00 - - - - - 500.00 4500.00 - - - - - 500.00 1 4583.00 -57.29 2.15 -55.14 40.118 101.360 1 5150.00 - - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from	2250.00	3330.00				-00.13	29.120	20.001	
I 3700.00* -66.18 - -66.18 29.078 28.437 I 4400.00 - - - - - 500.00 4400.00 - - - - - 500.00 4500.00 - - - - 500.00 4500.00 - - - - 500.00 1 4583.00 -57.29 2.15 -55.14 40.118 101.360 1 5150.00 - - - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from	3358.00	-	-	-		-	-	-	500.00
I 3700.00* -66.18 - -66.18 29.078 28.437 I 4400.00 - - - - - 500.00 4400.00 - - - - - 500.00 4500.00 - - - - 500.00 4500.00 - - - - 500.00 1 4583.00 -57.29 2.15 -55.14 40.118 101.360 1 5150.00 - - - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from									
4400.00 - - - - 500.00 4500.00 - - - - 500.00 4500.00 - - - - 500.00 1 4583.00 -57.29 2.15 -55.14 40.118 101.360 1 5150.00 - - - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from	3600.00	-		-		-	-		500.00
4500.00 - - - - 500.00 4583.00 -57.29 2.15 -55.14 40.118 101.360 5150.00 - - - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from		3700.00*	-66.18	-		-66.18	29.078	28.437	
4583.00 -57.29 2.15 -55.14 40.118 101.360 1 5150.00 - - - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from	4400.00	-	-	-		-	-	-	500.00
4583.00 -57.29 2.15 -55.14 40.118 101.360 1 5150.00 - - - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from	4500.00	-	-	-		-	-	-	500.00
5150.00 - - - 500.00 EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from		4583.00	-57.29	2.15		-55.14	40.118	101.360	
EUT emissions were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from		-	-	-		-	-		500.00
the EOT. It is a measurement of minimum measurement system sensitivity (Noise Floor).	5150.00	ns were observe					spectrum. * Th	is emission is r	
	EUT emissio								

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			EMISS	SIONS TEST DAT	A SHEET			
Test Metho	d	Unwanted		into Restricted Fre				
Customer		Immedia	Semiconduo	ctor, LLC.				
Job Numbe	er	R-6584H-	·1					
Test Sampl	е	Doorbell (Camera					
Model Num		BDM0020						
Serial Num		G8T1-SJ	00-1273-00	VU				
Test Specif			15 Subpart				Paragrap 15.247(c	
Operating N	Node	Transmitt	ing modulat	ed signal				·)
Technician		M. Seama						
Date		August 11						
					onto)			
Notes: Al	NSI C63.10, p	aragraphi	1.12.2.5.3 (#	Average Measurem	ents)			
A conservat	ive antenna g	ain value of	2.15 dBi wa	as utilized for this te	est.			
			TE	ST PARAMETE	RS			
		1						1
Restricted Band	Measured Frequency	Meter Reading	Antenna Gain		Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB		dBm	dBuV/m	uV/m	uV/m
5350.00	-	-	_		-	_	-	500.00
	5400.00*	-65.94	_		-65.94	29.318	29.233	1
5460.00	0400.00	00.04	-		00.04	20.010	20.200	500.00
5400.00	-	-	-		-	-	-	500.00
7250.00	-	-	-		-	-	-	500.00
	7440.00*	-63.54			-63.54	31.718	38.537	
7750.00	-	-	-		-	-	-	500.00
8025.00	-	-	-		-	-	-	500.00
	8300.00*	-63.04	-		-63.04	32.218	40.821	1
8500.00	-	-	_			02.210	-	500.00
0000.00	-	-	-		-	-	-	500.00
9000.00	-	-	-		-	-	-	500.00
	9148.00	-54.58	2.15		-52.43	42.828	138.48	
9200.00	-	-	-		-	-	-	500.00
				├				
				tance throughout the		spectrum. * Th	is emission is r	not from
the EUT. It is	a measuremen	t of minimum	measureme	nt system sensitivity	Noise Floor).			
					- i			
						if Te etire		
					Reti	if Testing	J Laborat	ories
						Report N	o. R-6584	H-1

	RETLIF TESTING LABORATORIES ===							
EMISSIONS TEST DATA SHEET								
Test Method	Unwanted Emissions into Restricted Frequency Bands							
Customer	Immedia Semiconductor, LLC.							
Job Number	R-6584H-1							
Test Sample	Doorbell Camera							
Model Number	BDM00200U							
Serial Number	G8T1-SJ00-1273-00VU							
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)						
Operating Mode	Transmitting modulated signal	·						
Technician	M. Seamans							
Date August 11 th , 2021								
Notes: ANSI C63.10, pa	aragraph 11.12.2.5.3 (Peak Measurements)							
A conservative antenna ga	ain value of 2.15 dBi was utilized for this test.							

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain		Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB		dBm	dBuV/m	uV/m	uV/m
1300.00	-	-	-		-	-	-	5000.00
	1350.00*	-63.28	-		-63.28	31.978	39.708	
1427.00	-	-	-		-	-	-	5000.00
1435.00	-	-	-		-	-	-	5000.00
I	1500.00*	-63.19	-		-63.19	32.068	40.122	
1646.50	-	-	-		-	-	-	5000.00
1660.00	-	-	-			-	-	5000.00
	1680.00*	-62.92	-		-62.92	32.338	41.388	
1710.00	-	-	-		-	-	-	5000.00
1718.80	-	-	-		-	-	-	5000.00
I	1720.00*	-63.14	-		-63.14	32.118	40.353	
1722.20	-	-	-		-	-	-	5000.00
2200.00	-	-	-		-	-	-	5000.00
	2250.00*	-61.39	-		-61.39	33.868	49.360	
2300.00	-	-	-		-	-	-	5000.00
2310.00	-	-	-		-	-	-	5000.00
	2360.00*	-61.67	-		-61.67	33.588	47.795	
2390.00	-	-	-	t were observed at	-	-	-	5000.00



	RETLIF TESTING LABORATORIES ===						
	EMISSIONS TEST DATA SHEET						
Test Method	Unwanted Emissions into Restricted Frequency Bands						
Customer	Immedia Semiconductor, LLC.						
Job Number	R-6584H-1						
Test Sample	Doorbell Camera						
Model Number	BDM00200U						
Serial Number	G8T1-SJ00-1273-00VU						
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)					
Operating Mode	Transmitting modulated signal						
Technician	M. Seamans						
Date August 11 th , 2021							
Notes: ANSI C63.10, pa	aragraph 11.12.2.5.3 (Peak Measurements)						
A conservative antenna ga	ain value of 2.15 dBi was utilized for this test.						

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dBm	dBuV/m	uV/m	uV/m
2483.50	-	-	-	-	-	-	5000.00
	2490.00*	-62.19	-	-62.19	33.068	45.017	
2500.00	-	-	-	-	-	-	5000.00
2690.00	-	-	-	-	-	-	5000.00
	2743.00	-44.56	2.15	-42.40	52.852	439.12	
2900.00	-	-	-	-	-	-	5000.00
3260.00	-	-	-		-	-	5000.00
	3263.00*	-60.94	-	-60.94	34.318	51.985	
3267.00	-	-	-	-	-	-	5000.00
3332.00	-	-	-		-	-	5000.00
	3336.00*	-60.34	-	-60.34	34.918	55.703	
3339.00	-	-	-	-	-	-	5000.00
3345.00	-	-	-	-	-	-	5000.00
	3350.00*	-60.36	-	-60.36	34.898	55.575	
3358.00	-	-	-	-	-	-	5000.00
3600.00	-	-	-		-	-	5000.00
	3700.00*	-59.73	-	-59.73	35.528	59.756	
4400.00	-	-	-	-	-	-	5000.00



	RETLIF TESTING LABORATORIES ===						
EMISSIONS TEST DATA SHEET							
Test Method	Unwanted Emissions into Restricted Frequency Bands						
Customer	Immedia Semiconductor, LLC.						
Job Number	R-6584H-1						
Test Sample	Doorbell Camera						
Model Number	BDM00200U						
Serial Number	G8T1-SJ00-1273-00VU						
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)					
Operating Mode	Transmitting modulated signal						
Technician	M. Seamans						
Date August 11 th , 2021							
Notes: ANSI C63.10, p	aragraph 11.12.2.5.3 (Peak Measurements)						
A conservative antenna ga	ain value of 2.15 dBi was utilized for this test.						

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dBm	dBuV/m	uV/m	uV/m
4500.00	-	-	-	-	-	-	5000.00
	4583.00	-44.92	2.15	-42.77	52.488	421.090	
5150.00	-	-	-	-	-	-	5000.00
5350.00	-	-	-	-	-	-	5000.00
	5400.00*	-60.56	-	-60.56	34.698	54.310	
5460.00	-	-	-	-	-	-	5000.00
7250.00	-	-	-	-	-	-	5000.00
	7440.00*	-57.72		-57.72	37.538	75.315	
7750.00	-	-	-	-	-	-	5000.00
8025.00	-	-	-	-	-	-	5000.00
	8300.00*	-57.50	-	-57.50	37.758	77.246	
8500.00	-	-	-	-	-	-	5000.00
9000.00	-	-	-	-	-	-	5000.00
	9148.00	-41.98	2.15	-39.83	55.758	590.72	
9200.00	-	-	-	-	-	-	5000.00
					ed test distance thro		



FCC Section 15.247 (d) Field Strength of Spurious Emissions Test Data



Retlif Testing Laboratories

RETLIF TESTING LABORATORIES					
	EMISSIONS TEST DATA SHEET				
Test Method	Spurious Emissions 30 MHz to 25 GHz				
Customer	Immedia Semiconductor, LLC.				
Job Number	R-6584H-1				
Test Sample	Doorbell Camera				
Model Number	BDM00200U				
Serial Number	G8T1-SJ00-1273-00VU				
Test Specification	FCC Part 15.247(d)				
Operating Mode	Transmitting Modulated Signal				
Technician	M. Seamans				
Date	August 12 th , 2021				
Notes: Test Antenna [Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz				

Test Frequency	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading		Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m		uV/m	uV/m
30.00	-	-	-	-		-	100.00
	35.00	6.67	13.23	19.90	*	9.89	I
	-	-	-	-		-	
88.00	-	-	-	-		-	100.00
88.00	-	-	-	-		-	150.00
	110.00	8.12	14.78	22.90	*	13.96	I
	195.00	9.36	19.75	29.10	*	28.51	1
	205.00	4.73	18.37	23.10	*	14.29	İ
	-	-	-	-		-	İ
216.00	-	-	-	-		-	150.00
216.00	-	-	-	-		-	200.00
	600.00	10.39	23.31	33.70	*	48.42	
	995.00	10.87	30.33	41.20	*	114.82	İ
	-	-	-	-		-	İ
960.00	-	-	-	-		-	200.00
960.00	-	-	-	-		-	500.00
	1050.00	31.28	-9.85	21.43	*	11.79	1
	9000.00	30.03	7.89	37.92	*	78.70	I
9300.00	-	-	-	-		-	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

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



Retlif Testing Laboratories

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-6584H-1 / Immedia Semiconductor, LLC.				
Test Sample:	Blink Doorbell Camera				
Model Number:	BDM00200U				
Serial Number:	G8T1-SJ00-1273-00VU				
Operating Mode:	Transmitting modulated signal				
Technician:	M. Seamans				
Date(s):	August 12 th , 2021				
Temp/ Relative Humidity:	23.5 °C / 53.8 %				
Port 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
0.156	Hot	18.19	12.40	7.40	65.67	55.67
0.160	Neutral	20.10	12.00	7.40	65.46	55.46
0.366	Hot	19.70	14.00	9.00	58.59	48.59
0.360	Neutral	21.10	14.00	9.00	58.75	48.75
1.170	Hot	17.36	17.10	5.30	56	46
1.250	Neutral	15.60	9.00	4.40	56	46
3.410	Hot	19.53	17.70	6.00	56	46
3.430	Neutral	17.30	10.50	6.00	56	46
7.770	Hot	19.70	13.10	8.50	60	50
7.330	Neutral	19.20	12.70	8.00	60	50
15.825	Hot	17.30	11.70	7.40	60	50
15.830	Neutral	19.20	11.70	7.40	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.**

Retlif Testing Laboratories