



FCC Part 15, Subpart C, Section 15.247
Test Report

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: T. Hannemann

Test Technician: M. Seamans

Approved By: S. Wentworth

Report Prepared By: P. Harris



Our letters, procedures and reports are for the exclusive use of the customer to whom they are addressed and their communication or the use of the name of Retlif Testing Laboratories must receive our prior written approval. Our letters, procedures and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products. The letters, procedures and reports and the name of Retlif Testing Laboratories or insignia are not to be used under any circumstances in advertising to the general public. This test report shall not be reproduced, except in full, without the written approval of Retlif Testing Laboratories.



40 YEARS OF TESTING EXCELLENCE

Corporate Headquarters:
795 Marconi Avenue
Ronkonkoma, NY 11779 USA
Tel: (631) 737-1500
Fax: (631) 737-1497

3131 Detwiler Road
Harleysville, PA 19438 USA
Tel: (215) 256-4133
Fax: (215) 256-4130

Washington Regulatory Compliance
1600 North Oak Street, #1710
Arlington, VA 22209 USA
Tel: (703) 528-3895

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

Type: 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 15, Subpart C, Section 15.247

Test Procedure:

ANSI C63.4:2014

ANSI C63.10:2013

FCC 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Test Facility:

Retlif Testing Laboratories

101 New Boston Road

Goffstown, NH 03045

FCC Designation Number: US5327



Retlif Testing Laboratories

Report No. R-6584H-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(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.

Table 1 – Support Equipment

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



Retlif Testing Laboratories

Report No. R-6584H-1

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).



Retlif Testing Laboratories

Report No. R-6584H-1

Revision History

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

Revision	Date	Pages Affected
-	September 10, 2021	Original Release



Retlif Testing Laboratories

Report No. R-6584H-1

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 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.



Retlif Testing Laboratories

Report No. R-6584H-1

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).



Retlif Testing Laboratories

Report No. R-6584H-1

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.

Table 2 - 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 2.



Retlif Testing Laboratories

Report No. R-6584H-1

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:

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

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



Retlif Testing Laboratories

Report No. R-6584H-1

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.

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

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

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

$$D = \sqrt{1.21} = 1.1 \text{ cm}$$

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



Retlif Testing Laboratories

Report No. R-6584H-1

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.

Table 3 - 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 3.



Retlif Testing Laboratories

Report No. R-6584H-1

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
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



Retlif Testing Laboratories

Report No. R-6584H-1

**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 Calibration 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**

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5133	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz, 2 W	757C-10	12/8/2020	12/31/2021
5188	Cybertron	COMPUTER, CONTROL	N/A	TSVQJA2221	No Calibration Required	
5209	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30	21106-50-BP-25-BNC	4/28/2021	4/30/2022
5210	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30	21106-50-BP-25-BNC	4/28/2021	4/30/2022
5218	COM-POWER	GENERATOR, COMB	100 kHz - 400 MHz	CGC-510E	8/24/2020	8/31/2021
896	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022



Retlif Testing Laboratories

Report No. R-6584H-1

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

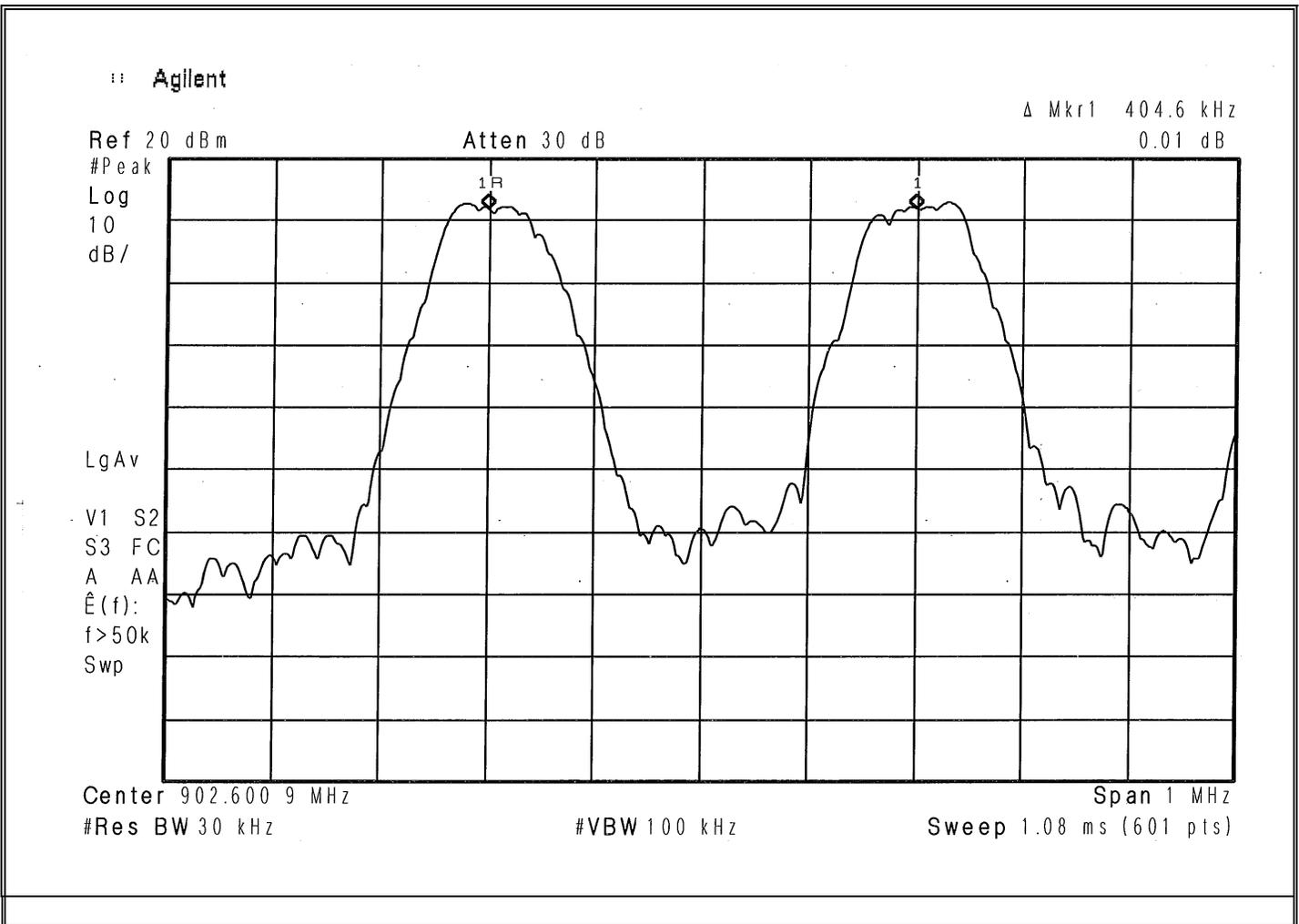


Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Channel Separation
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(1)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	24.4 °C / 58.1 %
Result:	Channel Separation: 404.60 kHz



Retlif Testing Laboratories

Report No. R-6584H-1

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



Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Bandwidth
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(i)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	24.5 °C / 58.9 %
Result:	20dB Bandwidth: 113.908 kHz

Agilent

Ref 20 dBm

#Atten 30 dB

#Peak
Log
10
dB/

LgAv

M1 S2

Center 902.400 0 MHz

Span 300 kHz

#Res BW 10 kHz

#VBW 30 kHz

Sweep 2.88 ms (601 pts)

Occupied Bandwidth
104.4798 kHz

Occ BW % Pwr 99.00-%
x dB -20.00 dB

Transmit Freq Error 6.255 kHz
x dB Bandwidth 113.908 kHz



Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Bandwidth
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(i)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	24.5 °C / 58.9 %
Result:	20dB Bandwidth: 113.726 kHz

Agilent

Ref 20 dBm

Atten 30 dB

#Peak
Log
10
dB/

LgAv

M1 S2

Center 915.200 0 MHz

Span 300 kHz

#Res BW 10 kHz

#VBW 30 kHz

Sweep 2.88 ms (601 pts)

Occupied Bandwidth
101.7162 kHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error 6.705 kHz
x dB Bandwidth 113.726 kHz



Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Bandwidth
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(i)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	24.5 °C / 58.9 %
Result:	20dB Bandwidth: 113.755 kHz

Agilent

Ref 20 dBm

Atten 30 dB

#Peak
Log
10
dB/

LgAv

M1 S2

Center 927.600 0 MHz

Span 300 kHz

#Res BW 10 kHz

#VBW 30 kHz

Sweep 2.88 ms (601 pts)

Occupied Bandwidth
102.6516 kHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error 7.825 kHz
x dB Bandwidth 113.755 kHz



Retlif Testing Laboratories

Report No. R-6584H-1

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

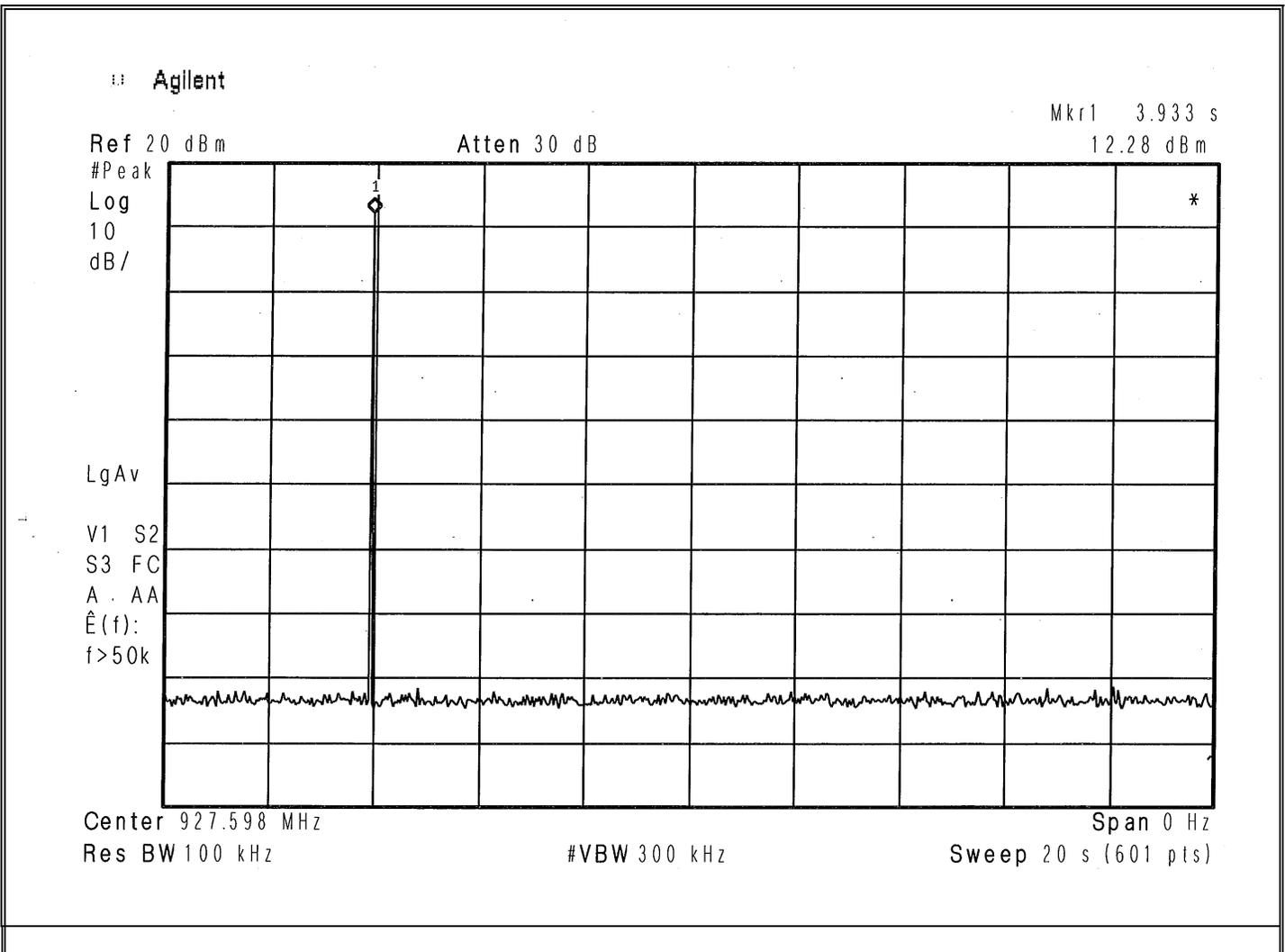


Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Time of Occupancy
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(iii)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	24.6 °C / 63.7 %
Result:	Time of Occupancy: (1 pulse in 20 second window)

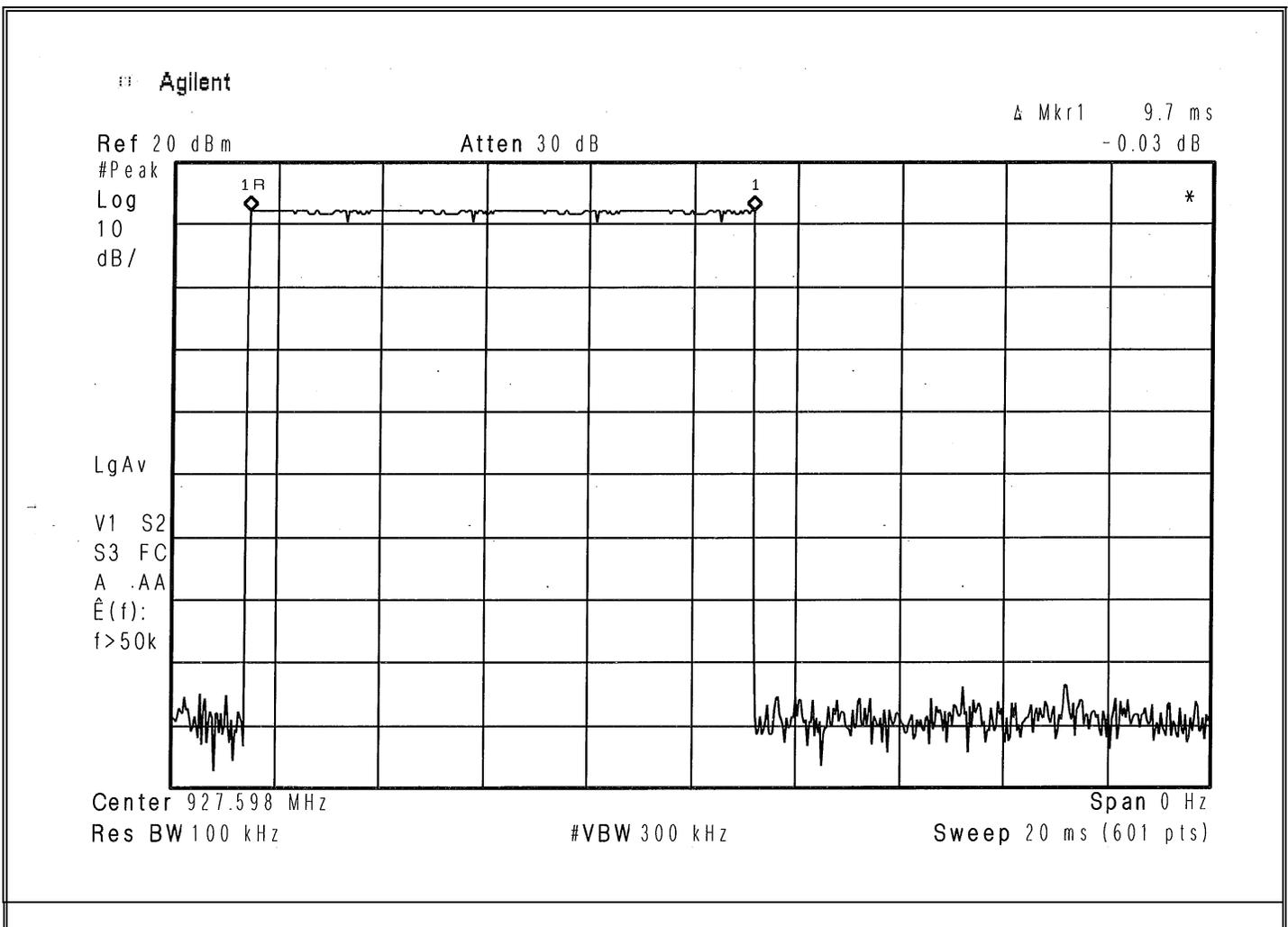


Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Time of Occupancy
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(iii)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	24.6 °C / 63.7 %
Result:	Time of Occupancy: 9.7ms (1 pulse in 20 second window)



Retlif Testing Laboratories

Report No. R-6584H-1

**Number of Hopping Frequencies
Test Data**

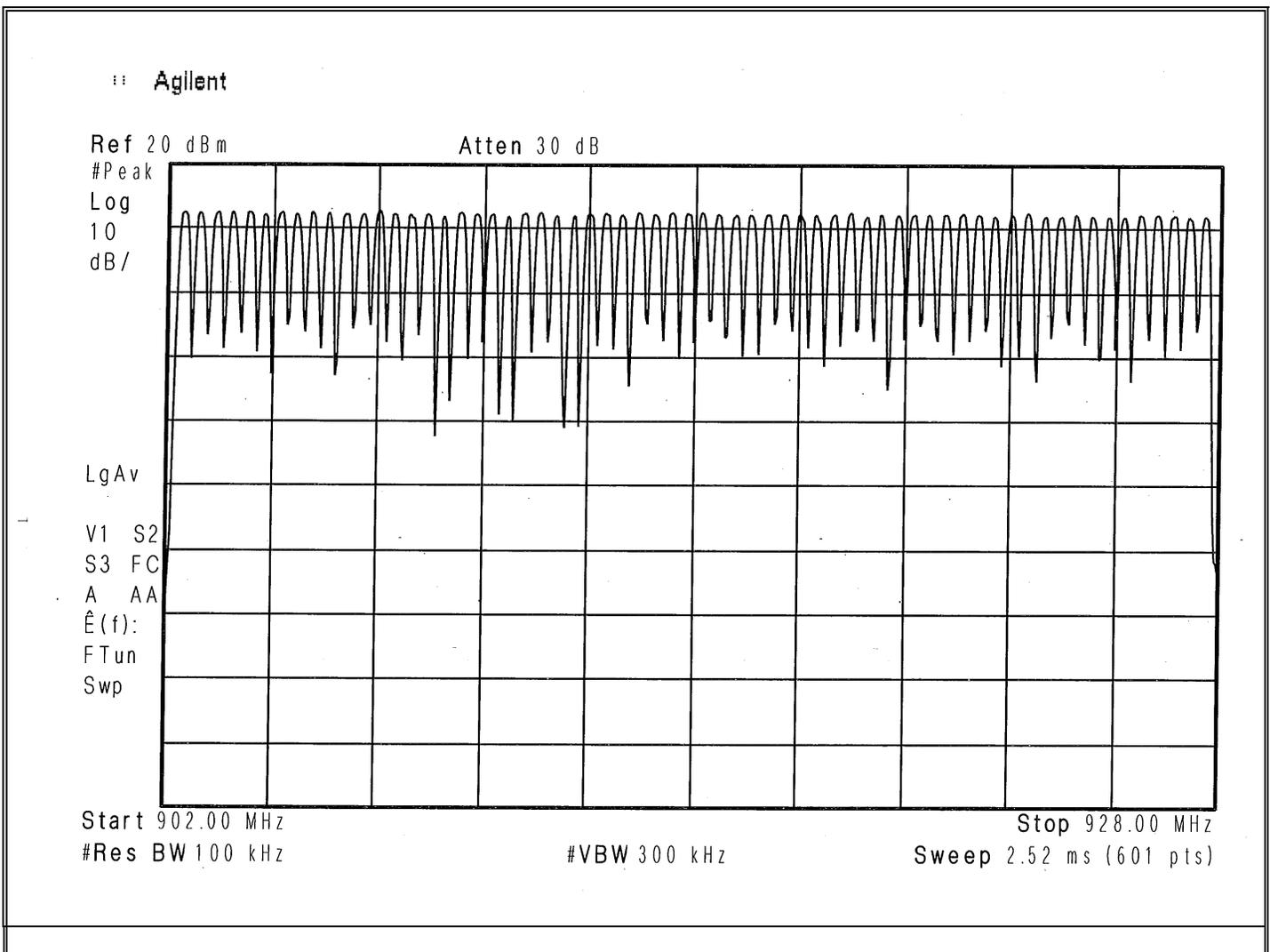


Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Number of Hopping Channels
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(iii)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	25.0 °C / 62.3 %
Result:	Number of Hopping Channels: 64



Retlif Testing Laboratories

Report No. R-6584H-1

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

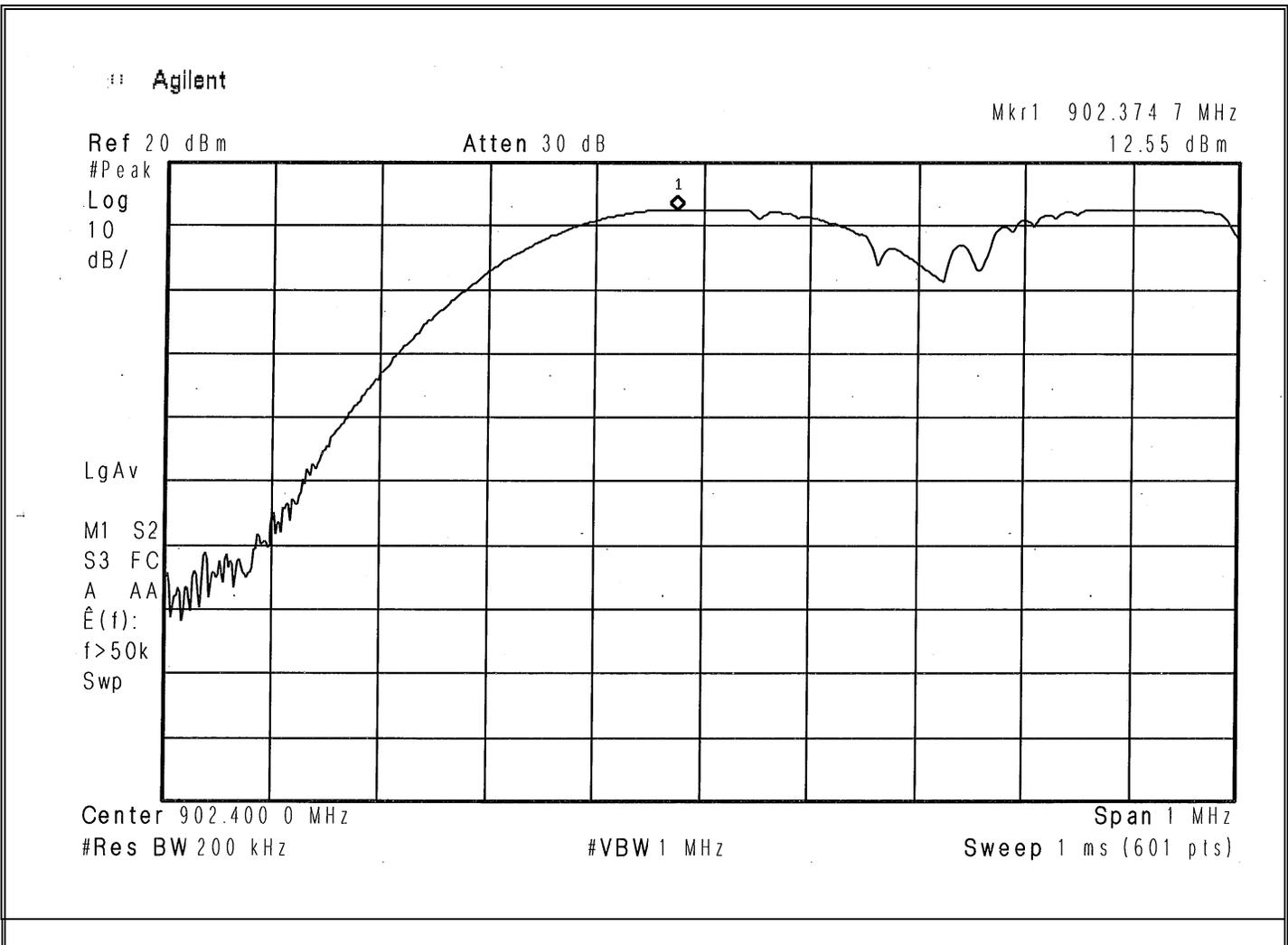


Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Power Output
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (b)(1)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	24.5 °C / 63.7 %
Result:	Power Output: 12.55 dBm

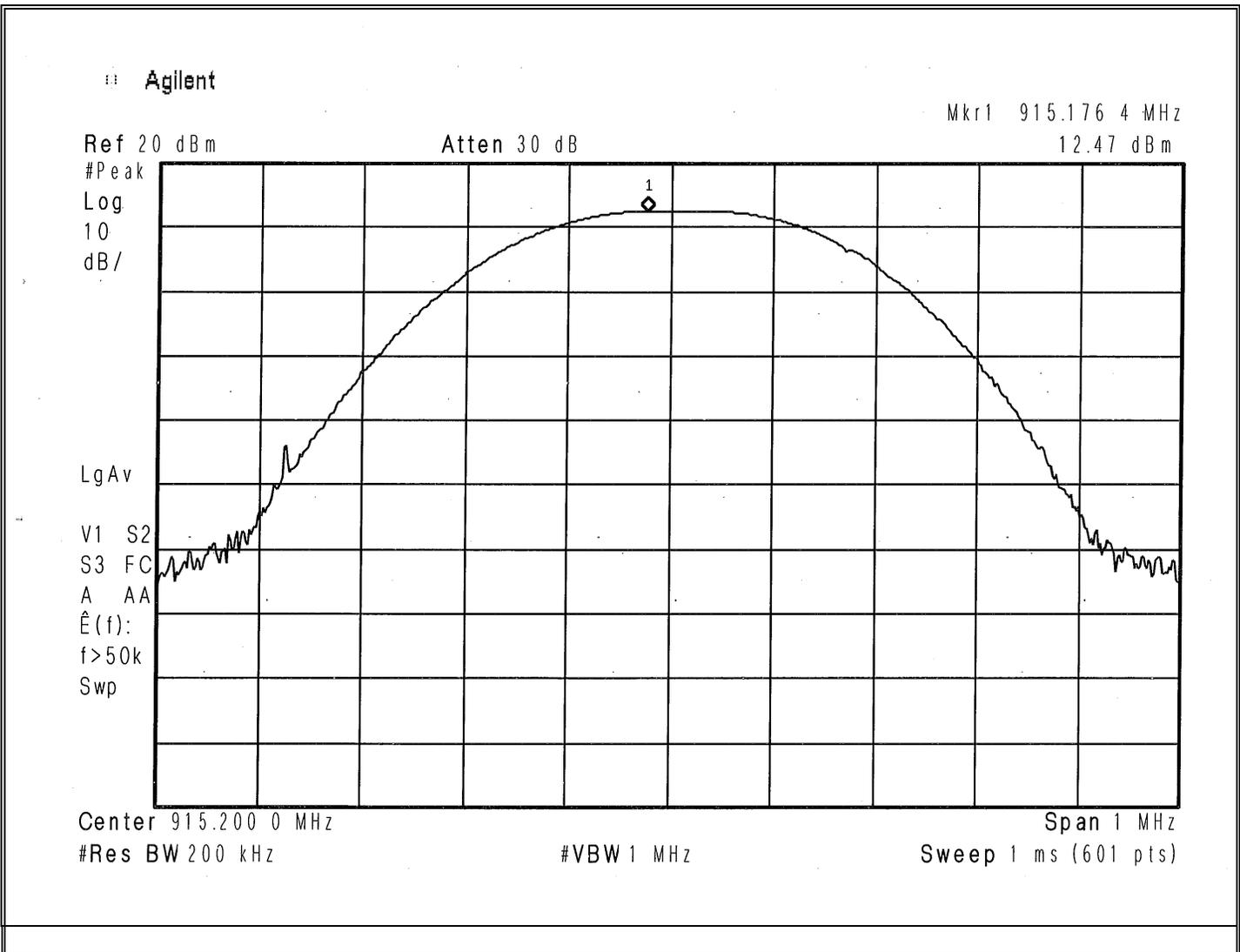


Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Power Output
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (b)(1)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	24.5 °C / 63.7 %
Result:	Power Output: 12.47 dBm

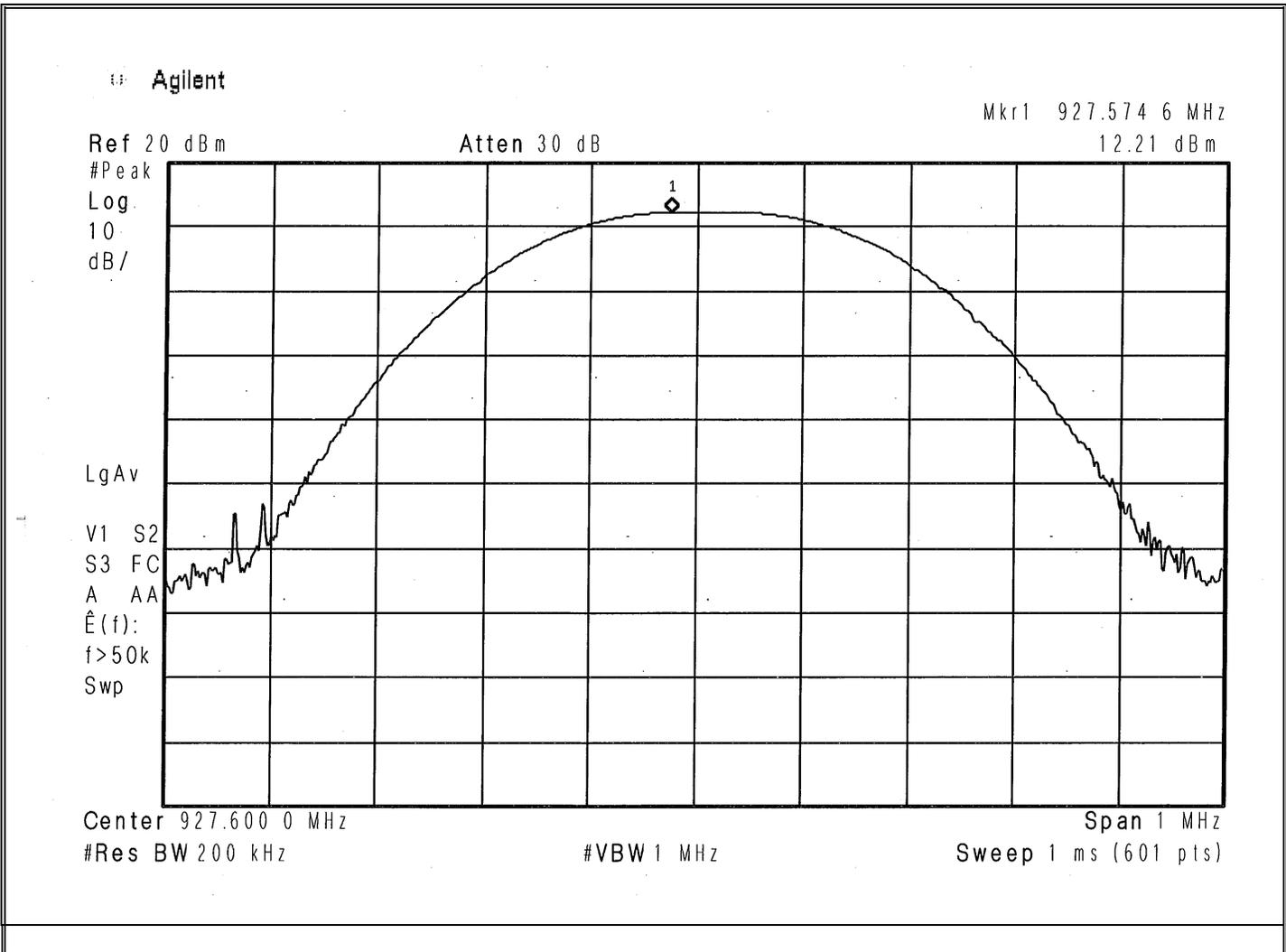


Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Power Output
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (b)(1)
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
Technician:	M.Seamans
Date(s):	August 10 th , 2021
Temp/ Relative Humidity:	24.5 °C / 63.7 %
Result:	Power Output: 12.21 dBm



Retlif Testing Laboratories

Report No. R-6584H-1

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



Retlif Testing Laboratories

Report No. R-6584H-1

**Out Of Band
Test Data**



Retlif Testing Laboratories

Report No. R-6584H-1

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:	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
Date(s):	August 11 th , 2021
Temp/ Relative Humidity:	23.8 °C / 65.0 %
Notes:	Limit: -7.45 dBm

Agilent

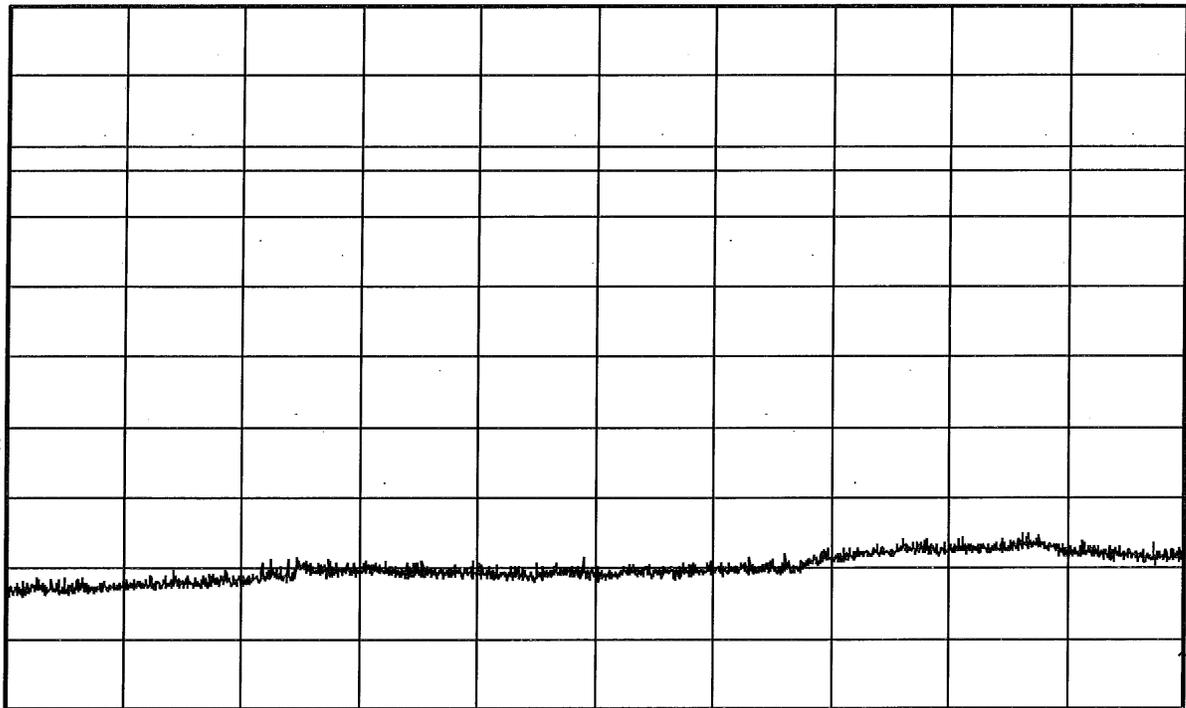
Ref 16 dBm

#Atten 26 dB

#Peak
Log
10
dB/

DI
-7.4
dBm
LgAv

V1 S2
S3 FC
A AA
Ê(f):
FTun
Swp



Start 1.000 GHz

Stop 9.300 GHz

#Res BW 100 kHz

#VBW 300 kHz

#Sweep 25 s (2500 pts)

1 GHz to 9.3 GHz

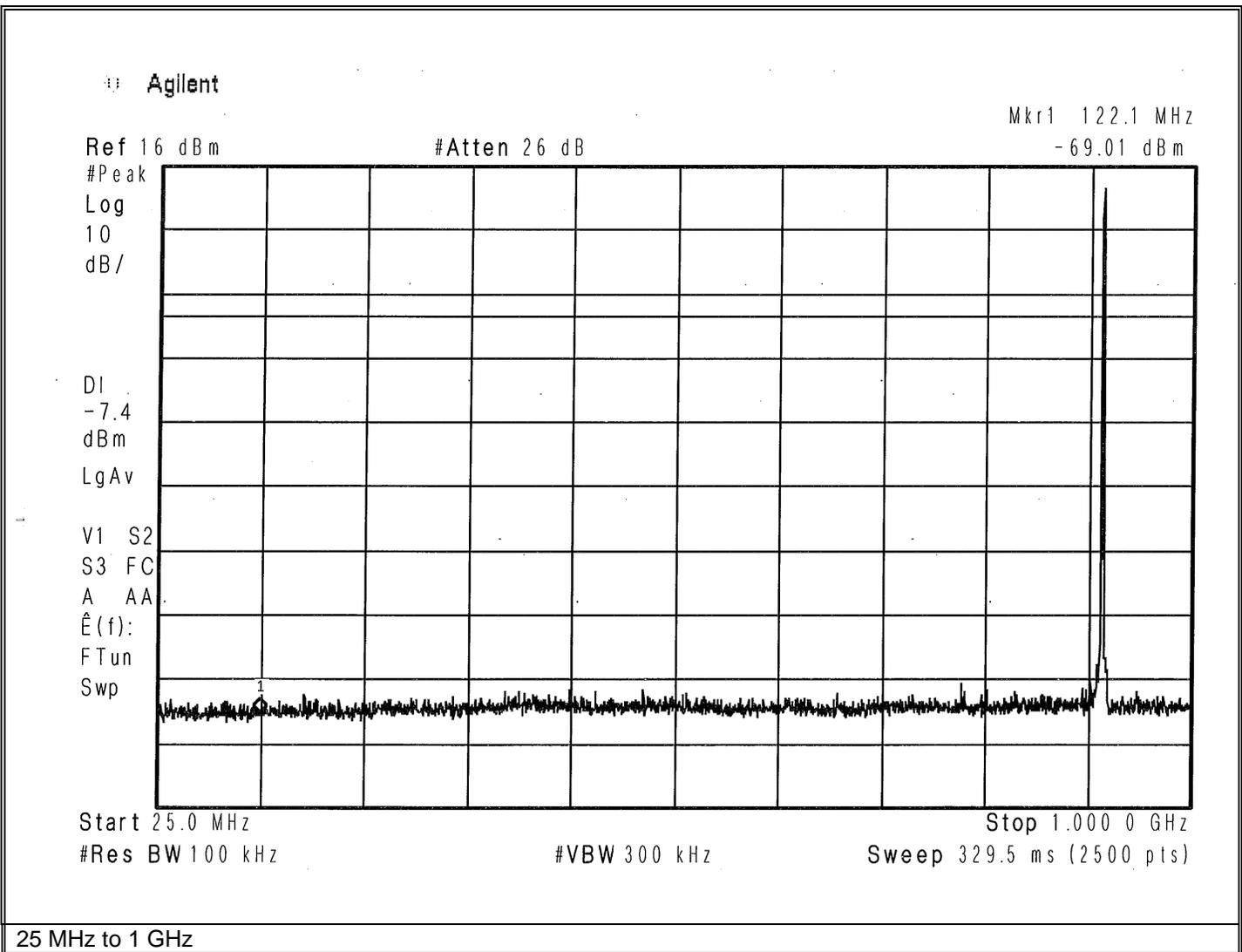


Retlif Testing Laboratories

Report No. R-6584H-1

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:	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
Temp/ Relative Humidity:	23.8 °C / 65.0 %
Notes:	Limit: -7.45 dBm

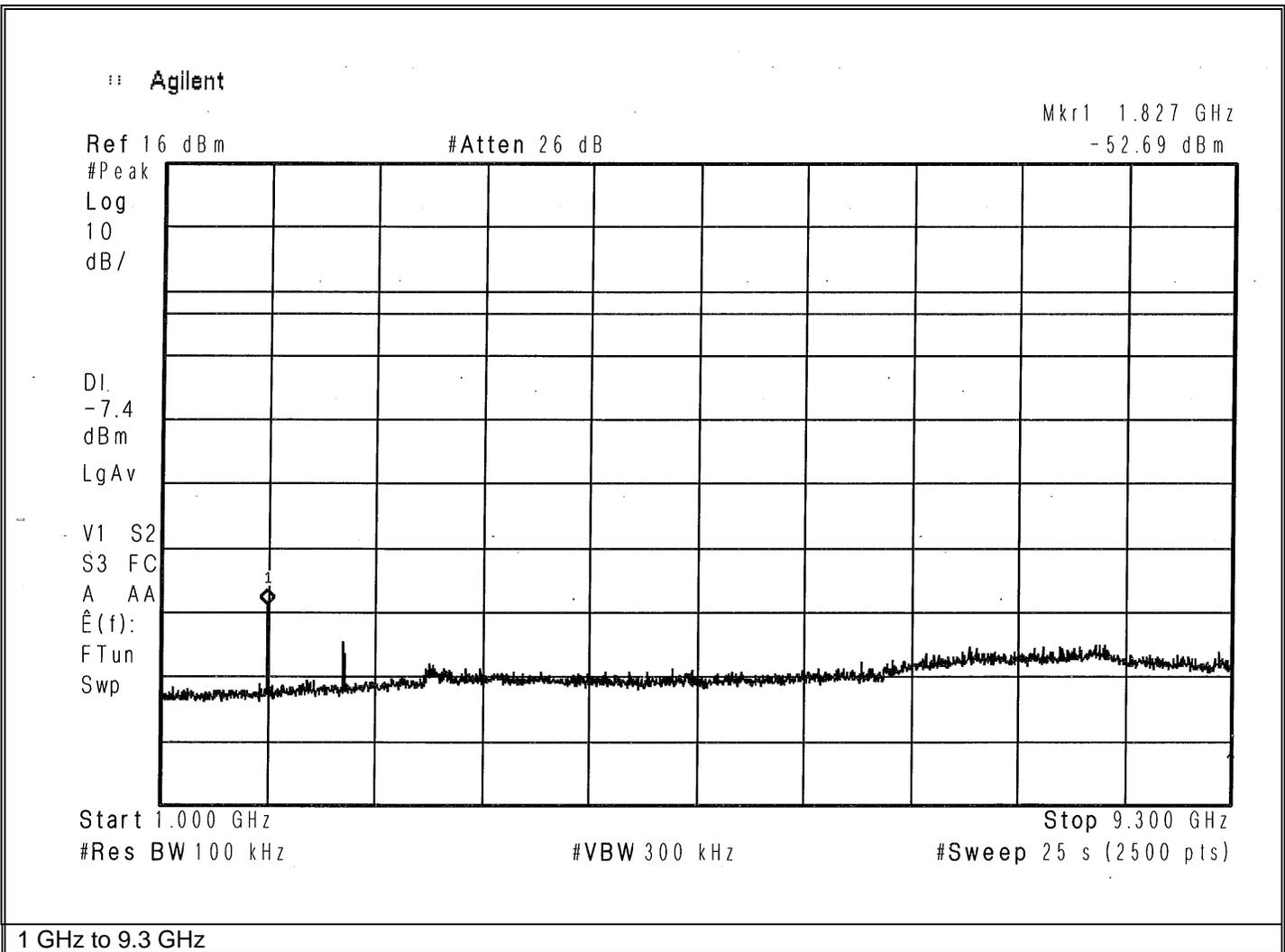


Retlif Testing Laboratories

Report No. R-6584H-1

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:	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
Temp/ Relative Humidity:	23.8 °C / 65.0 %
Notes:	Limit: -7.45 dBm

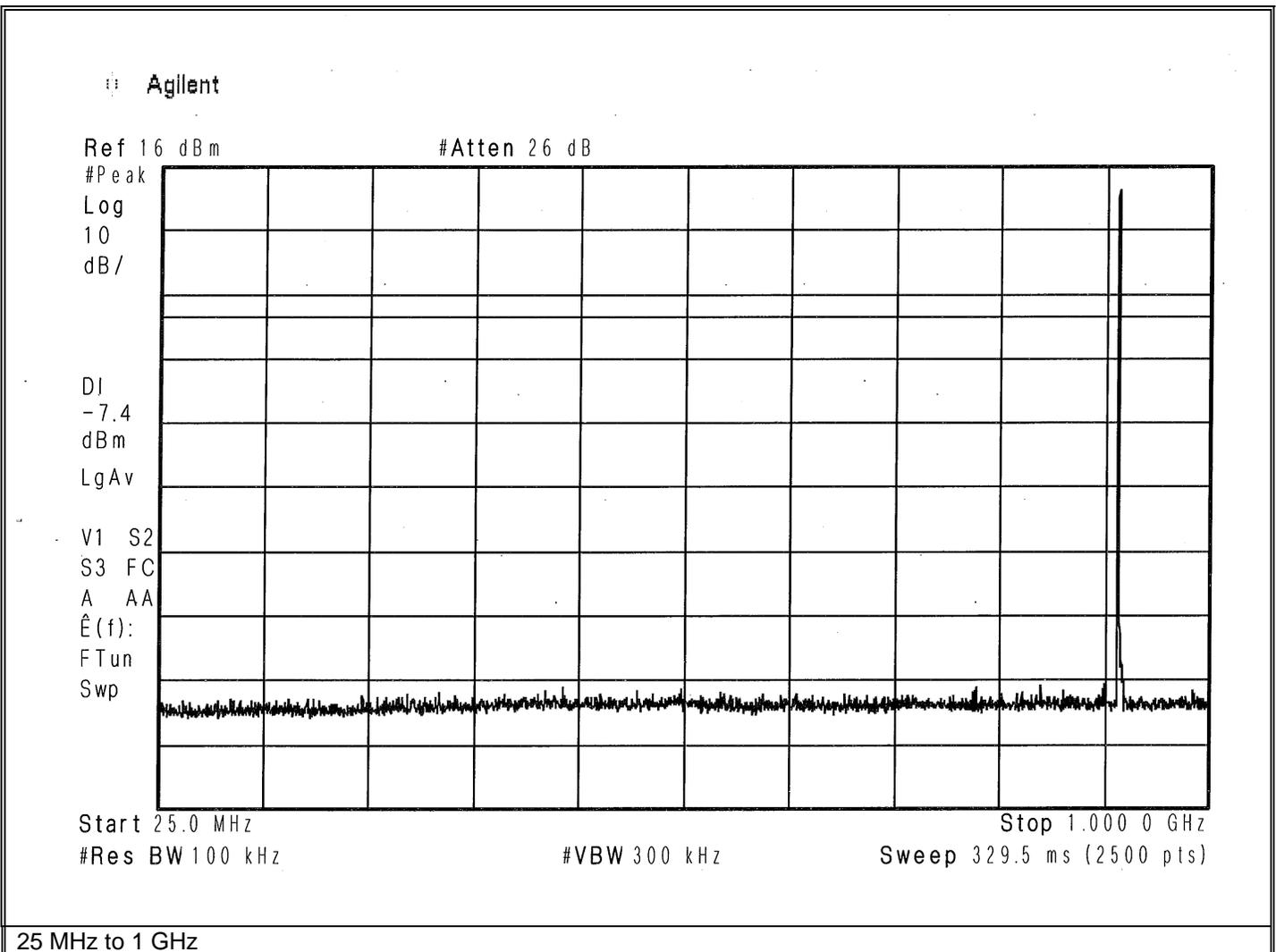


Retlif Testing Laboratories

Report No. R-6584H-1

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:	Immedia Semiconductor, LLC.
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):	August 11 th , 2021
Temp/ Relative Humidity:	23.8 °C / 65.0 %
Notes:	Limit: -7.45 dBm



Retlif Testing Laboratories

Report No. R-6584H-1

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:	Immedia Semiconductor, LLC.
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):	August 11 th , 2021
Temp/ Relative Humidity:	23.8 °C / 65.0 %
Notes:	Limit: -7.45 dBm

Agilent

Ref 16 dBm

#Atten 26 dB

#Peak

Log

10

dB/

DI

-7.4

dBm

LgAv

V1 S2

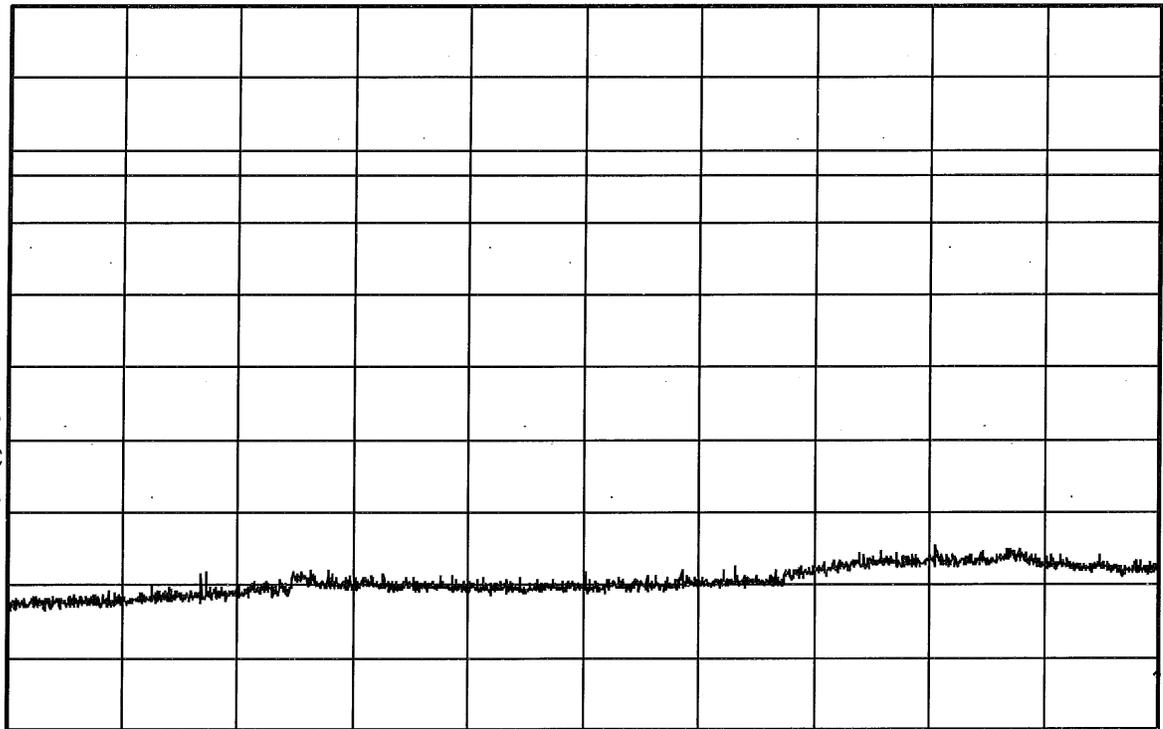
S3 FC

A AA

E(f):

FTun

Swp



Start 1.000 GHz

Stop 9.300 GHz

#Res BW 100 kHz

#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**

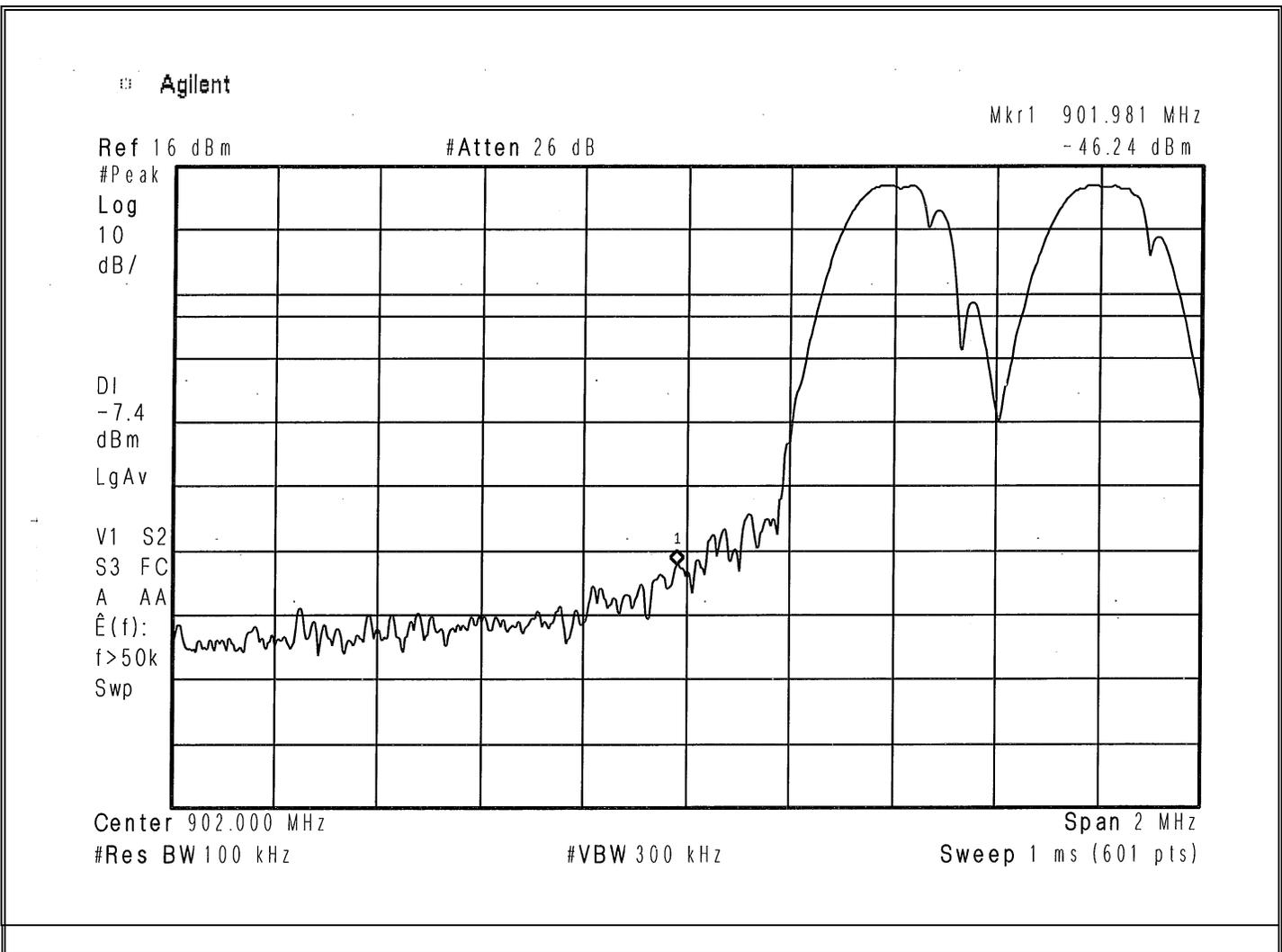


Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Band Edge
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
Technician:	M.Seamans
Date(s):	August 11 th , 2021
Temp/ Relative Humidity:	23.8 °C / 65.0 %
Notes:	Limit: -7.45 dBm

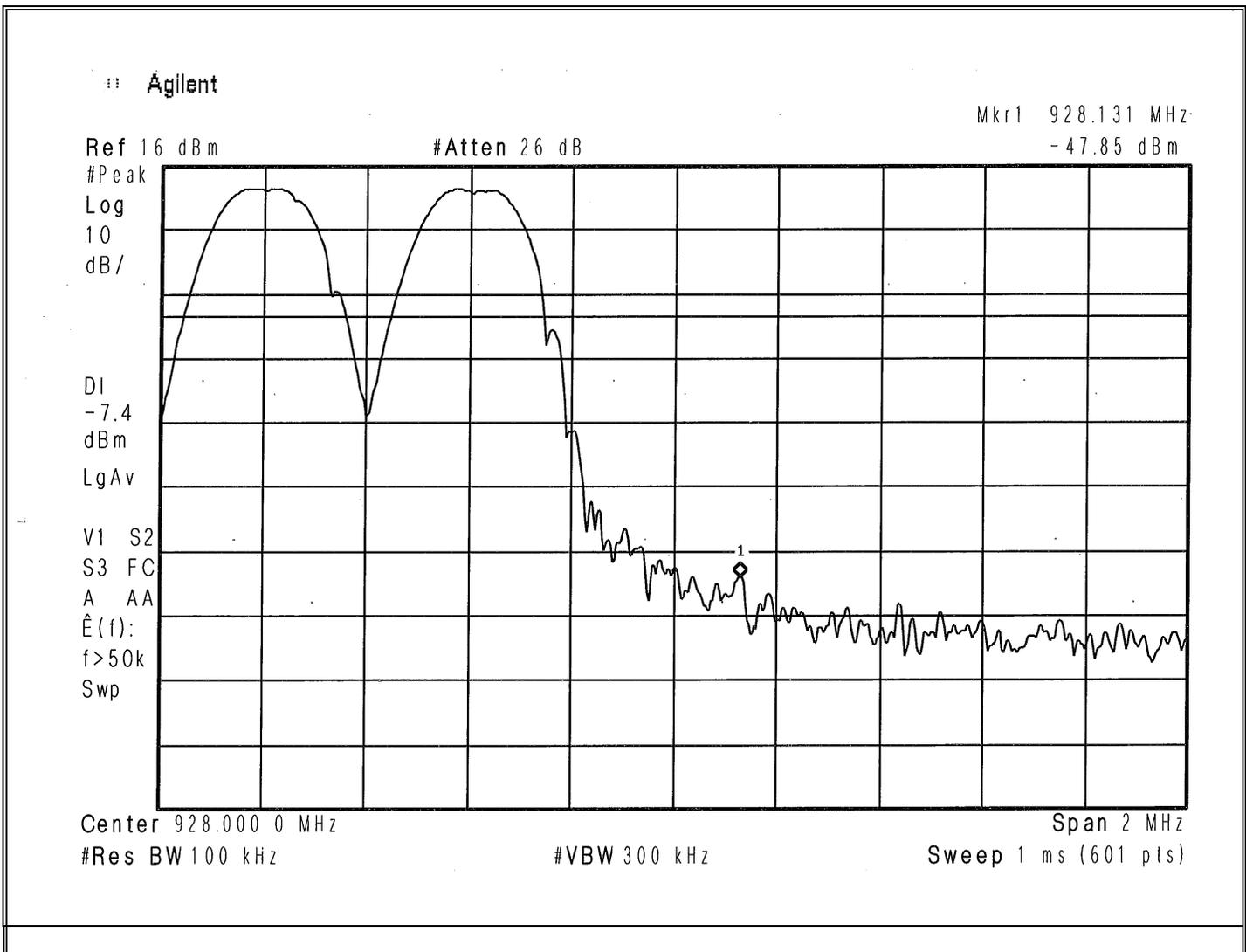


Retlif Testing Laboratories

Report No. R-6584H-1

EMISSIONS TEST DATA SHEET

Method:	Band Edge
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
Technician:	M.Seamans
Date(s):	August 11 th , 2021
Temp/ Relative Humidity:	23.8 °C / 65.0 %
Notes:	Limit: -7.45 dBm



Retlif Testing Laboratories

Report No. R-6584H-1

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



Retlif Testing Laboratories

Report No. R-6584H-1

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions in 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 (Quasi-Peak < 1GHz, Average >1GHz 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
MHz	MHz	dBm	dB			dBm	dBuV/m	uV/m	uV/m
37.50	-	-	-			-	-	-	100.00
	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	
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	
121.94	-	-	-			-	-	-	100.00
123.00	-	-	-			-	-	-	100.00
	130.00*	-73.71	-			-73.71	21.548	11.950	
138.00	-	-	-			-	-	-	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).



Retlif Testing Laboratories

Report No. R-6584H-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, paragraph 11.12.2.5.3 (Quasi-Peak < 1GHz, Average >1GHz 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 3M
MHz	MHz	dBm	dB			dBm	dBuV/m	uV/m	uV/m
149.90	-	-	-			-	-	-	100.00
	150.00*	-73.65	-			-73.65	21.608	12.033	
150.05	-	-	-			-	-	-	100.00
156.52	-	-	-			-	-	-	100.00
	156.52*	-73.61	-			-73.61	21.648	12.089	
156.52	-	-	-			-	-	-	100.00
156.70	-	-	-			-	-	-	100.00
	156.80*	-73.61	-			-73.61	21.648	12.089	
156.90	-	-	-			-	-	-	100.00
162.01	-	-	-			-	-	-	150.00
	165.00*	-73.62	-			-73.62	21.638	12.075	
167.17	-	-	-			-	-	-	150.00
167.72	-	-	-			-	-	-	150.00
	170.00*	-73.66	-			-73.66	21.598	12.019	
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-6584H-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, paragraph 11.12.2.5.3 (Quasi-Peak < 1GHz, Average >1GHz 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 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
	405.00*	-73.15	-			-73.15	22.108	12.746	
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*	-68.41	-			-68.41	26.848	21.998	
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-6584H-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, 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 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	-	-	-			-	-	-	500.00
	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	-	-	-			-	-	-	500.00
	2360.00*	-67.63	-			-67.63	27.628	24.065	
2390.00	-	-	-			-	-	-	500.00
2483.50	-	-	-			-	-	-	500.00
	2490.00*	-67.40	-			-67.40	27.858	24.710	
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-6584H-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, 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 3M
MHz	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
3260.00	-	-	-			-	-	-	500.00
	3263.00*	-66.16	-			-66.16	29.098	28.502	
3267.00	-	-	-			-	-	-	500.00
3332.00	-	-	-			-	-	-	500.00
	3336.00*	-66.15	-			-66.15	29.108	28.535	
3339.00	-	-	-			-	-	-	500.00
3345.00	-	-	-			-	-	-	500.00
	3350.00*	-66.13	-			-66.13	29.128	28.601	
3358.00	-	-	-			-	-	-	500.00
3600.00	-	-	-			-	-	-	500.00
	3700.00*	-66.18	-			-66.18	29.078	28.437	
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. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).



Retlif Testing Laboratories

Report No. R-6584H-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, paragraph 11.12.2.5.3 (Peak 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 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
	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
	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	-	-	-			-	-	-	5000.00

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-6584H-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, paragraph 11.12.2.5.3 (Peak 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 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

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-6584H-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, paragraph 11.12.2.5.3 (Peak 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 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

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-6584H-1

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



Retlif Testing Laboratories

Report No. R-6584H-1

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 PARAMETERS

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	
	-	-	-	-		-	
88.00	-	-	-	-		-	100.00
88.00	-	-	-	-		-	150.00
	110.00	8.12	14.78	22.90	*	13.96	
	195.00	9.36	19.75	29.10	*	28.51	
	205.00	4.73	18.37	23.10	*	14.29	
	-	-	-	-		-	
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	
	-	-	-	-		-	
960.00	-	-	-	-		-	200.00
960.00	-	-	-	-		-	500.00
	1050.00	31.28	-9.85	21.43	*	11.79	
	9000.00	30.03	7.89	37.92	*	78.70	
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

Report No. R-6584H-1

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



Retlif Testing Laboratories

Report No. R-6584H-1

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

Report No. R-6584H-1