



**FCC Part 15, Subpart C, Section 15.247
Test Report**

On

Outdoor XT2 Blink Camera Module
FCC ID: 2AF77-H1981713

Customer Name: Immedia Semiconductor, LLC

Customer P.O.: ISI032919_PDG

Date of Report: May 1, 2019

Test Report No: R-6412N-3

Test Start Date: April 17, 2019

Test Finish Date: April 18, 2019

Test Engineer: T. Hannemann

Test Technician: M. Seamans

Approved By: S. Wentworth

Report Prepared By: P. Harris

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40 YEARS OF TESTING EXCELLENCE

Technical Information

Report Number: R-6412N-3

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: Outdoor XT2 Blink Camera Module

Model Number: BCM00200U
N/A (Conducted Testing)

Serial Number: 870-000-537 (Radiated Testing)

FCC ID: 2AF77-H1981713
Digital Transmission - Direct Sequence Spread Spectrum

Type: Transmitter
5 VDC via External 120 VAC power adapter or 3 VDC via internal batteries

Power Requirements:

Frequency of Operation: 2412.0 MHz to 2472.0 MHz

Equipment Class: DTS

Antenna Type: Internal PCB Antenna – 2.0 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



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Report No. R-6412N-3

Tests Performed

| FCC Part 15, Subpart C | Test Method |
|---------------------------|---|
| 15.247(a)(2) | Occupied Bandwidth (6dB Bandwidth) |
| 15.247(b)(3) | Power Output |
| 15.247(d) | Antenna Port, Conducted Emissions |
| 15.247(e) | Antenna Port, Power Density |
| 15.247(d) | Spurious Radiated Emissions, 30 MHz to 25 GHz |
| 15.207(a) | Conducted Emissions, Power Leads, 150 kHz to 30 MHz |

EUT Operation:

The Outdoor XT2 Blink Camera operates using only 802.11n20 protocol in the 2.4 GHz Wi-Fi band. The EUT was evaluated in all possible data rates and the lowest data rate of 9Mbps (ofdm) was used for testing as this data rate resulted in the highest output power and worst case emissions.

Table 1 – Support Equipment

| Description | Manufacturer | Model Number | Serial Number |
|--------------------------|-----------------------|---------------|----------------|
| Radiated Testing | | | |
| Laptop PC | HP | Probook 450G5 | SC088466QTY |
| USB Adapter | Alfa Network | AWUS036NHA | 180636A0001785 |
| Sync Module | Immedia Semiconductor | BSM00200U | 230-054-628 |
| Conducted Testing | | | |
| Laptop PC | HP | Probook 450G5 | SC088466QTY |
| Sync Module | Immedia Semiconductor | BSM00200U | 230-054-628 |



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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 | Pages Affected |
|-----------------|-------------|-----------------------|
| - | May 1, 2019 | Original Release |



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Report No. R-6412N-3

Requirements and Test Results

Requirement:

FCC Section 15.247(a)(2)

Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands. The minimum 6 dB bandwidths shall be at least 500 kHz.

- **Results:**

The minimum 6 dB bandwidth measured 15,111 kHz which complies with the requirement that the Bandwidth be no less than 500 kHz.

Requirement:

FCC Sections 15.247(b)(3)

Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz

The maximum peak conducted output power of the intentional radiator shall not exceed the following:

For systems using digital modulation in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antenna and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antenna and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

- **Results:**

The maximum measured peak conducted output power was 98.99 mW. The maximum antenna gain of the PCB antenna is 2.0 dBi. The device was found to meet the power output requirements of 15.247 (b)(3) including de facto EIRP.



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Requirements and Test Results (con't)

Requirement:

FCC Section 15.247(d):

Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz

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 this section, 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 emissions limits specified in Section 15.209(a) (see Section 15.205(c)).

- **Results:**

In any 100 kHz bandwidth outside the frequency band in which the Spread spectrum intentional radiator was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below that in the 100 kHz bandwidth within the band that contained the highest level of the desired power. All emissions, which fell within the restricted bands specified in 15.205(a), were measured and found to be in compliance with the limits specified in 15.209(a).



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Requirements and Test Results (con't)

Requirement:

FCC Section 15.247(e):

Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

- **Results:**

The power spectral density conducted from the intentional radiator to the antenna was not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density was determined in accordance with Section 15.247(b)(3), herein.

Requirement:

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.



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Requirements and Test Results (con't)

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.



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Requirements and Test Results (con't)

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 $\text{dB}\mu\text{V}/\text{m}$

M_R = Uncorrected Meter Reading in $\text{dB}\mu\text{V}$

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

Example:

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

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

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

$\text{dB}\mu\text{V}/\text{m}$ is converted to $\mu\text{V}/\text{m}$ for comparison to the specified limit using the formula:

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

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

RF Power Conversion:

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

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

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



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Requirements and Test Results (con't)

FCC Section 15.247 (i)

RF Exposure Limits

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

$$S = \frac{PG}{4\pi Dsq}$$

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cmsq

Per 1.1310 For the Frequency of 2405 MHz S = 1 mW/cmsq

Power = Max Power Input to Antenna = 98.99mW

Gain = Max Power Gain of Antenna = 2 dBi = 1.58 numeric

$$1 \text{ mW/cmsq} = \frac{98.99 \times 1.58}{4 \times (3.14) \times D^2} = \frac{156.40}{12.56 \times D^2}$$

$$D^2 = \frac{156.40}{12.56 \times 1}$$

$$D = \sqrt{12.45} = 3.53 \text{ cm}$$

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



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Equipment List

FCC Section 15.247(a)(2) Occupied Bandwidth (6 dB Bandwidth)

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|------|-----------------|---------------------|---------------------------|-----------|------------|------------|
| 5134 | NARDA MICROWAVE | ATTENUATOR, COAXIAL | 10 dB, DC - 12.4 GHz, 2 W | 757C-10 | 12/19/2018 | 12/31/2019 |
| 5231 | AGILENT / HP | ANALYZER, SPECTRUM | 3 Hz - 26.5 GHz | E4440A | 4/12/2018 | 4/30/2019 |

FCC Section 15.247(b)(3) Power Output

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|------|---------------------|--------------------|----------------|-----------|----------|-------------------------|
| 5222 | LENOVO | COMPUTER, CONTROL | | E73 | | No Calibration Required |
| 5241 | BOONTON ELECTRONICS | SENSOR, PEAK POWER | 50 MHz - 6 GHz | RTP5006 | 9/7/2018 | 9/30/2019 |

FCC Section 15.247(d) Antenna Port, Conducted Emissions

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|------|-----------------|---------------------|---------------------------|-----------|------------|------------|
| 5070 | ROHDE & SCHWARZ | RECEIVER, EMI | 20 Hz - 40 GHz | ESIB40 | 11/6/2018 | 11/30/2019 |
| 5134 | NARDA MICROWAVE | ATTENUATOR, COAXIAL | 10 dB, DC - 12.4 GHz, 2 W | 757C-10 | 12/19/2018 | 12/31/2019 |

FCC Section 15.247(e) Antenna Port, Power Density

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|------|-----------------|---------------------|---------------------------|-----------|------------|------------|
| 5134 | NARDA MICROWAVE | ATTENUATOR, COAXIAL | 10 dB, DC - 12.4 GHz, 2 W | 757C-10 | 12/19/2018 | 12/31/2019 |
| 5231 | AGILENT / HP | ANALYZER, SPECTRUM | 3 Hz - 26.5 GHz | E4440A | 4/12/2018 | 4/30/2019 |

FCC Section 15.247(d) Spurious Radiated Emissions, 30 MHz to 25 GHz

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|-------|--------------------|----------------------------------|--------------------|---------------------|-----------|-------------------------|
| 1232 | AGILENT / HP | PRE-AMPLIFIER | 1 - 26.5 GHz | 8449B | 5/25/2018 | 5/31/2019 |
| 3258 | ETS / EMCO | ANTENNA, DOUBLE RIDGED GUIDE | 1 - 18 GHz | 3115 | 5/10/2018 | 11/30/2019 |
| 3430 | MCS | ANTENNA, HORN | 18 - 26.5 GHz | K-5039 | | No Calibration Required |
| 4029B | RETLIF | OPEN AREA TEST SITE, ATTENUATION | 3 / 10 Meters | RNH | 8/16/2017 | 8/31/2019 |
| 443 | ELECTRO-METRICS | ANTENNA, LOG PERIODIC | 200 MHz - 1000 MHz | LPA-25 | 5/21/2018 | 11/30/2019 |
| 5070 | ROHDE & SCHWARZ | RECEIVER, EMI | 20 Hz - 40 GHz | ESIB40 | 11/6/2018 | 11/30/2019 |
| 5188 | Cybertron | COMPUTER, CONTROL | N/A | TSVQJA2221 | | No Calibration Required |
| 5224 | ETS / EMCO | ANTENNA, BICONICAL | 20 - 200 MHz | 3104C | 4/10/2018 | 10/31/2019 |
| 5242 | TELEDYNE MICROWAVE | CABLE, COAXIAL | 10 kHz - 6 GHz | PR90-195-1275, 106' | 9/5/2018 | 9/30/2019 |



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FCC Section 15.207(b)
Conducted Emissions, Power Leads, 150 kHz to 30 MHz

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|------|-------------------|---------------------|---------------------------|--------------------|-------------------------|------------|
| 5070 | ROHDE & SCHWARZ | RECEIVER, EMI | 20 Hz - 40 GHz | ESIB40 | 11/6/2018 | 11/30/2019 |
| 5135 | NARDA MICROWAVE | ATTENUATOR, COAXIAL | 10 dB, DC - 12.4 GHz, 2 W | 757C-10 | 11/9/2018 | 11/30/2019 |
| 5188 | Cybertron | COMPUTER, CONTROL | N/A | TSVQJA2221 | No Calibration Required | |
| 5209 | SOLAR ELECTRONICS | LISN | 50 uH, 150 kHz - 30 MHz | 21106-50-BP-25-BNC | 4/26/2018 | 4/30/2019 |
| 5210 | SOLAR ELECTRONICS | LISN | 50 uH, 150 kHz - 30 MHz | 21106-50-BP-25-BNC | 4/26/2018 | 4/30/2019 |



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**Test Photographs
Occupied Bandwidth (6dB Bandwidth)**



Test Setup



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Report No. R-6412N-3

FCC Part 15, Subpart C, Section 15.247(a)(2)
Occupied Bandwidth (6 dB Bandwidth)
Test Data

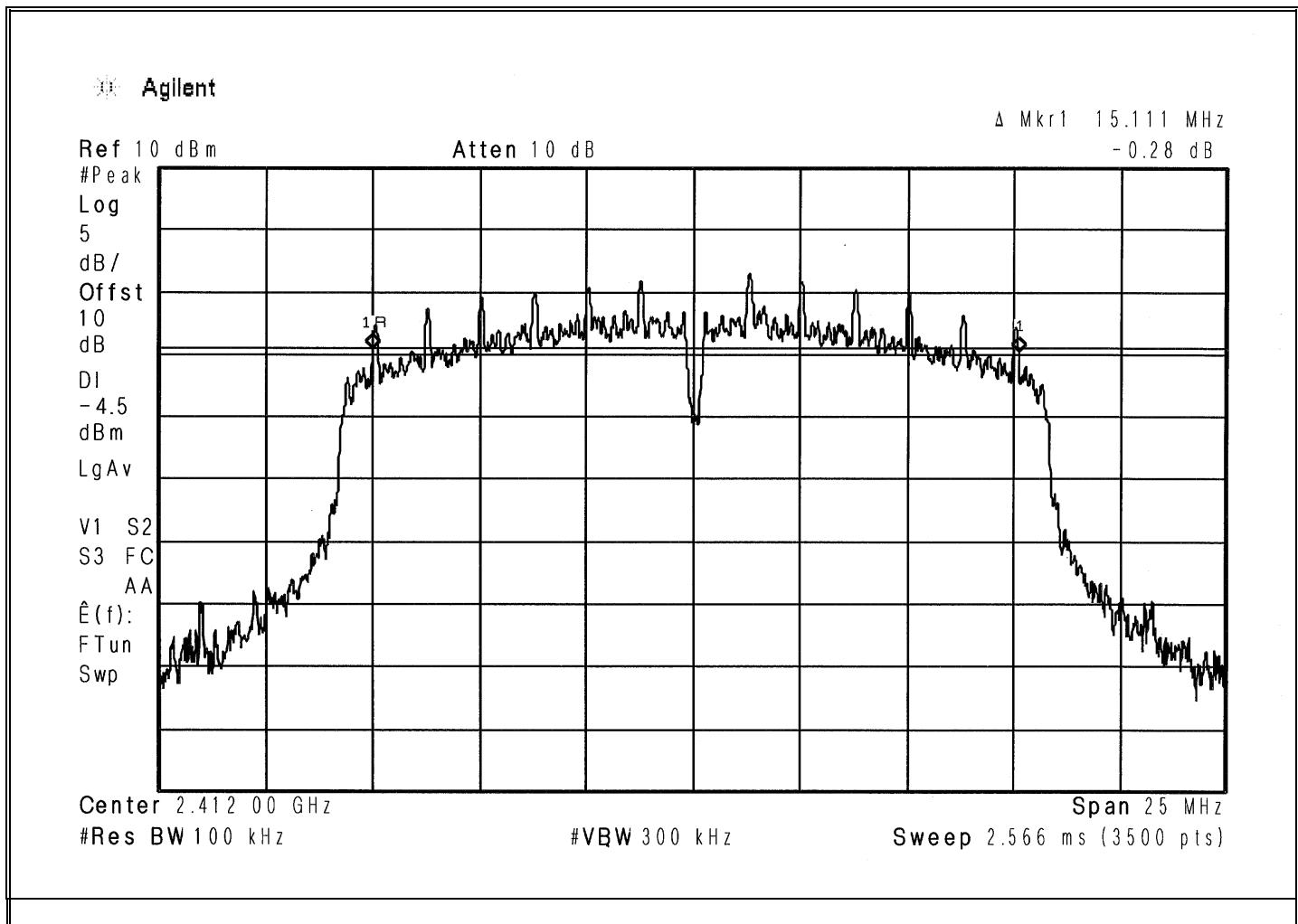


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Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Occupied Bandwidth |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (a)(2) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2412 MHz (OFDM) |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 21.6 °C / 30.6 % |
| Notes: | 6dB Bandwidth: 15.111 MHz |



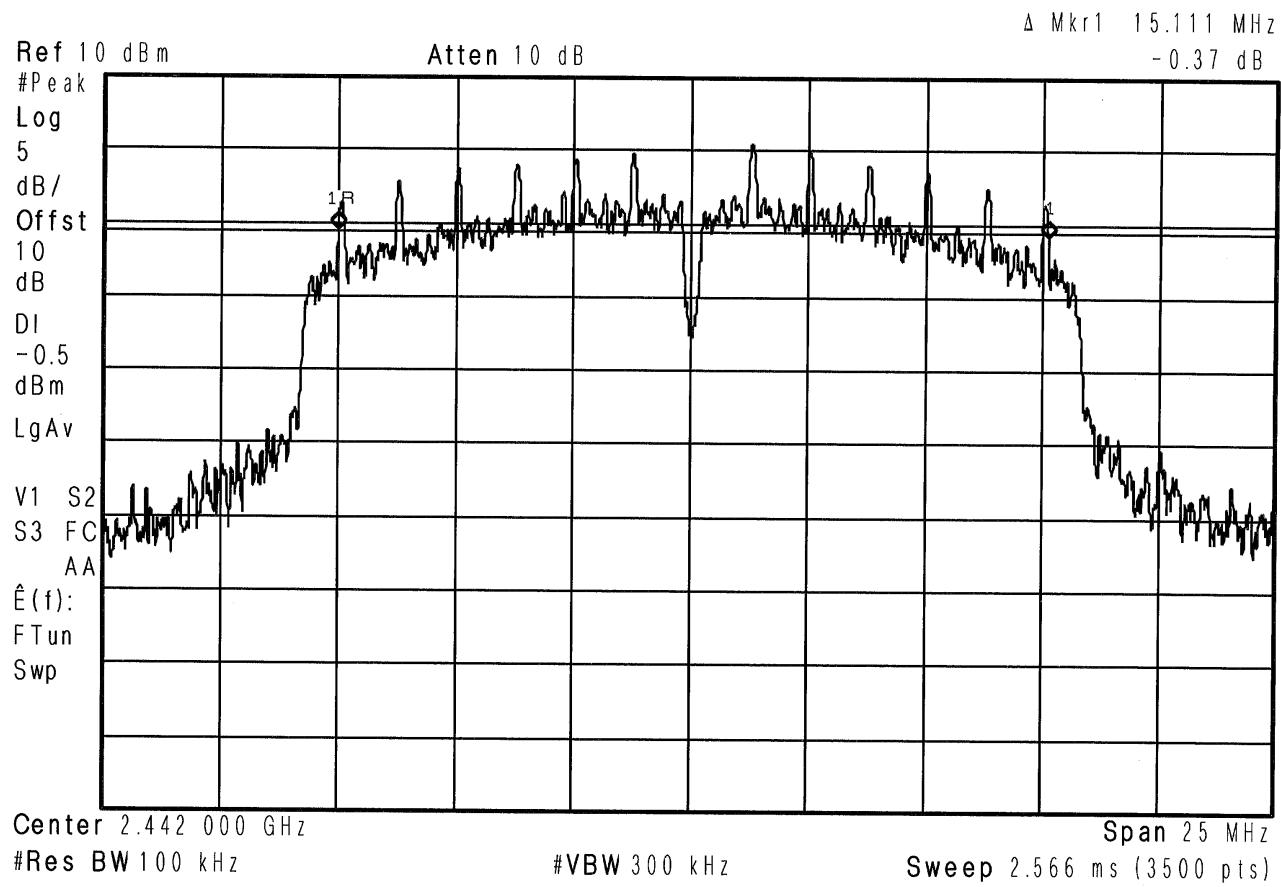
Retlif Testing Laboratories

Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Occupied Bandwidth |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (a)(2) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2442 MHz (OFDM) |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 21.6 °C / 30.6 % |
| Notes: | 6dB Bandwidth: 15.111 MHz |

Agilent



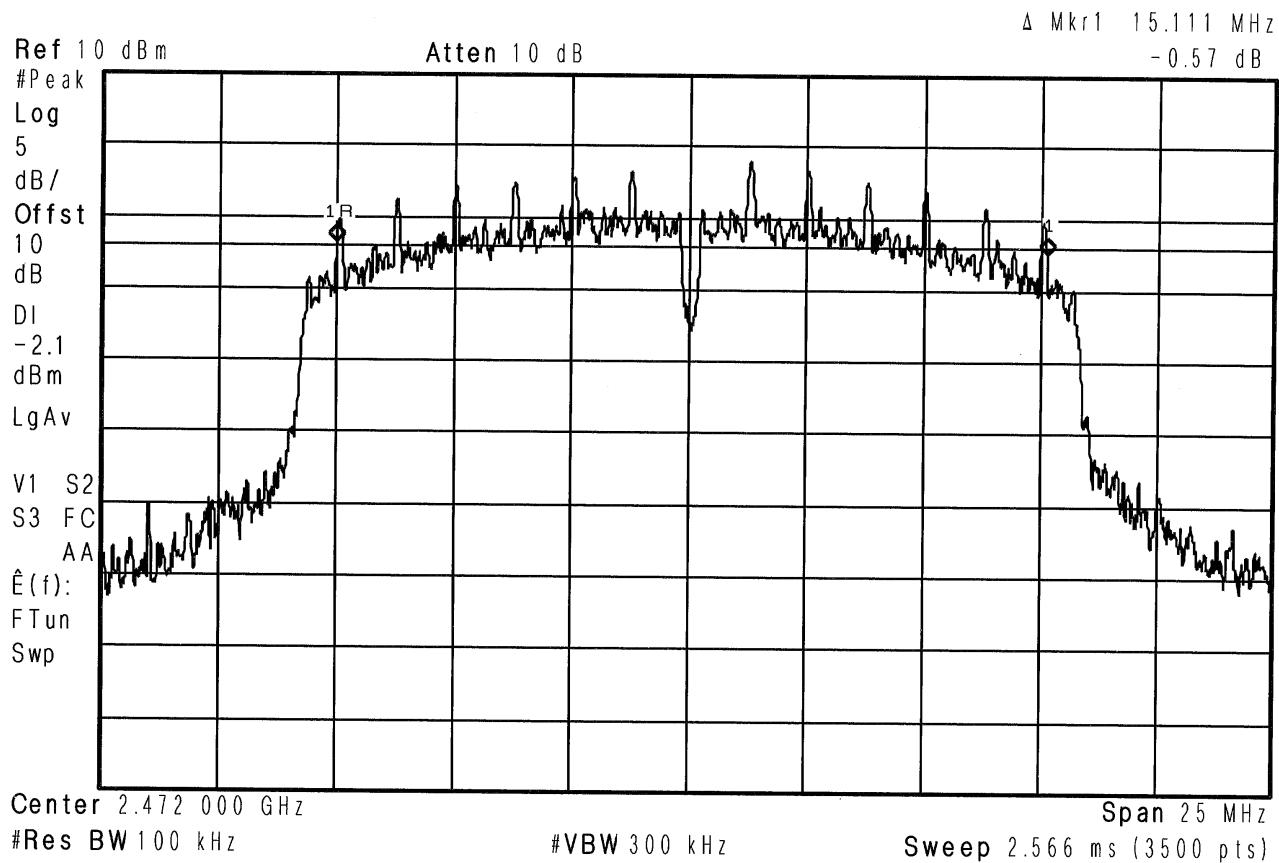
Retlif Testing Laboratories

Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Occupied Bandwidth |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (a)(2) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2472 MHz (OFDM) |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 21.6 °C / 30.6 % |
| Notes: | 6dB Bandwidth: 15.111 MHz |

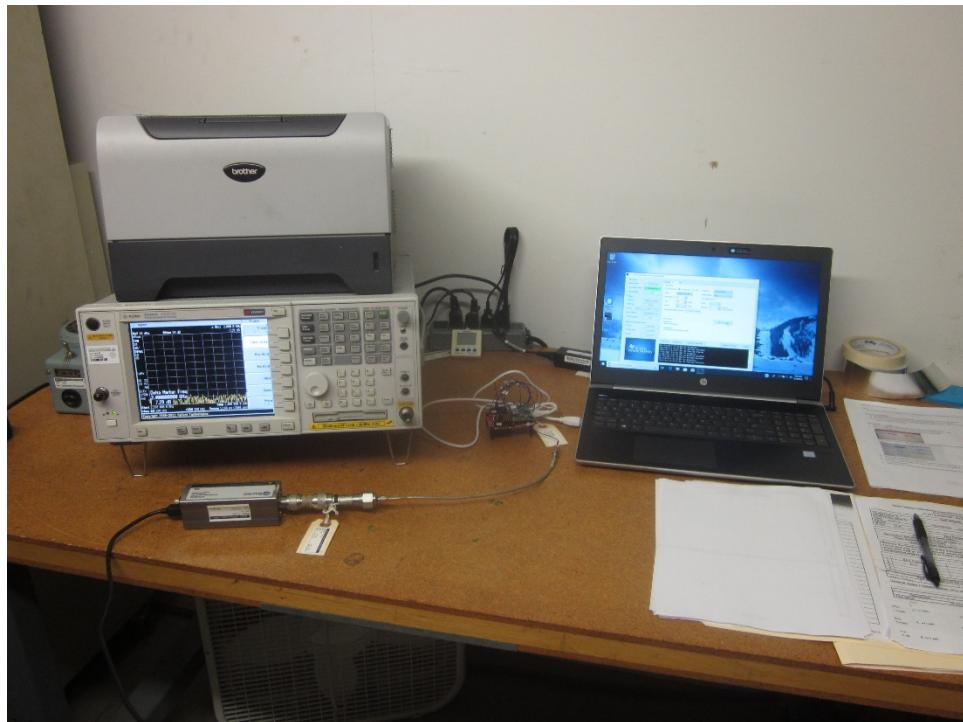
Agilent



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**Test Photographs
Conducted Emissions, Power Output**



Test Setup



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Report No. R-6412N-3

**FCC Part 15, Subpart C, Section 15.247(b)(3)
Conducted Emissions, Power Output
Test Data**



Retlif Testing Laboratories

Report No. R-6412N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | |
|--------------------|--|
| Test Method | Peak Power Output |
| Customer | Immedia Semiconductor LLC |
| Job Number | R-6412N-3 |
| Test Sample | Outdoor XT2 Blink Camera Module |
| Model Number | BCM00200U |
| Serial Number | N/A |
| Test Specification | FCC Part 15, Subpart C Paragraph 15.247 (b)(3) |
| Operating Mode | Transmitting modulated signal (OFDM) |
| Technician | M. Seamans |
| Date | April 18 th , 2019 |

Notes: Measurement method: Peak-reading power meter

| Transmit Frequency | | Power Meter Reading | Converted Reading | Limit |
|--------------------|--|---------------------|-------------------|---------|
| MHz | | dBm | mW | mW |
| 2412.00 | | 19.362 | 86.33761 | 1000.00 |
| 2442.00 | | 19.956 | 98.99198 | 1000.00 |
| 2472.00 | | 19.747 | 94.34090 | 1000.00 |
| | | | | |
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Report No. R-6412N-3

**Test Photographs
Antenna Port, Conducted Emissions**



Test Setup



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Report No. R-6412N-3

**FCC Part 15, Subpart C, Section 15.247(d)
Antenna Port, Conducted Emissions
Band Edge Test Data**

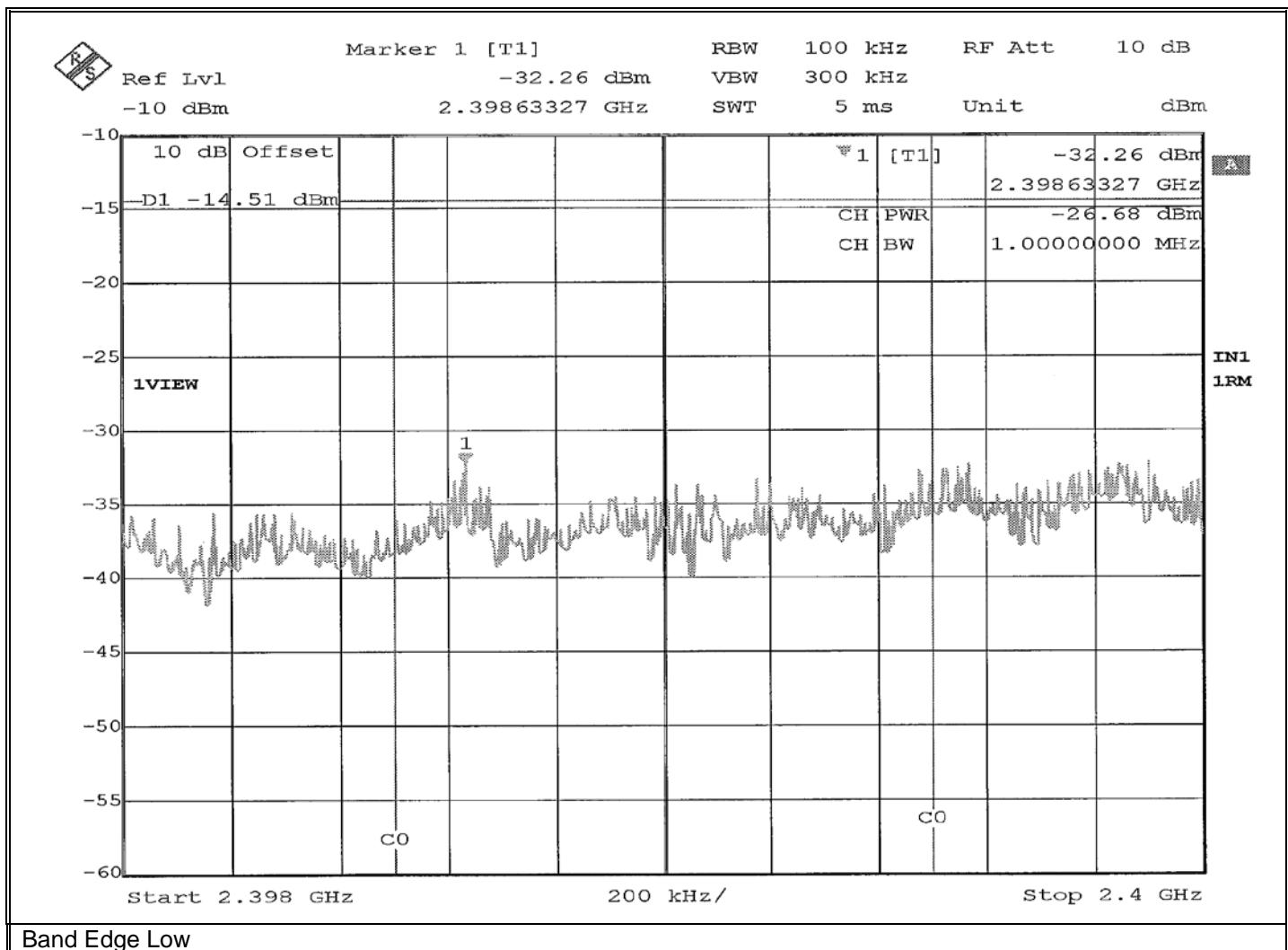


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EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Band Edge |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2.412 GHz |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 20.3 °C / 28.6 % |
| Notes: | Limit: -14.51 dBm |

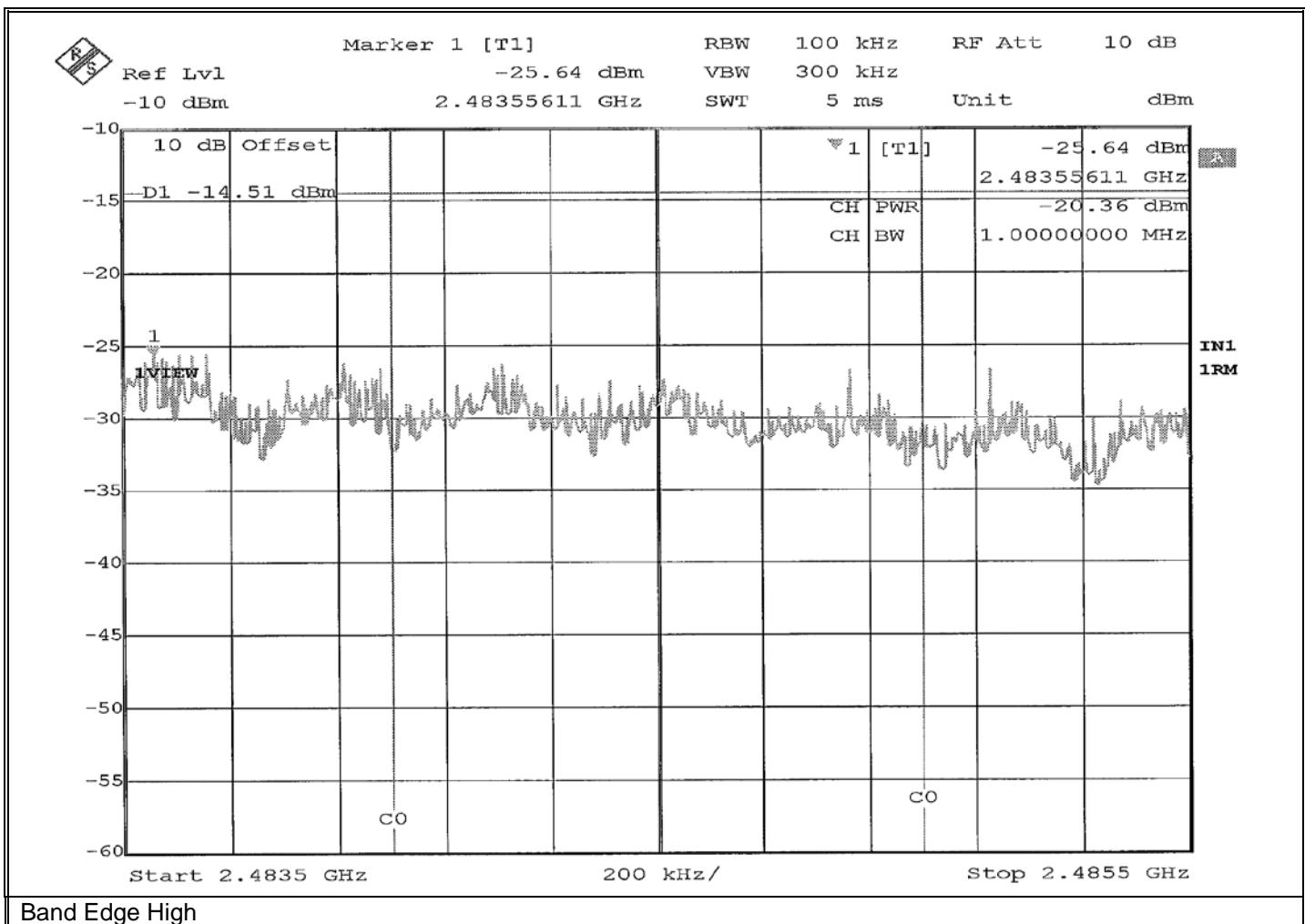


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EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Band Edge |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2.472 GHz |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 20.3 °C / 28.6 % |
| Notes: | Limit: -14.51 dBm |



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Report No. R-6412N-3

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

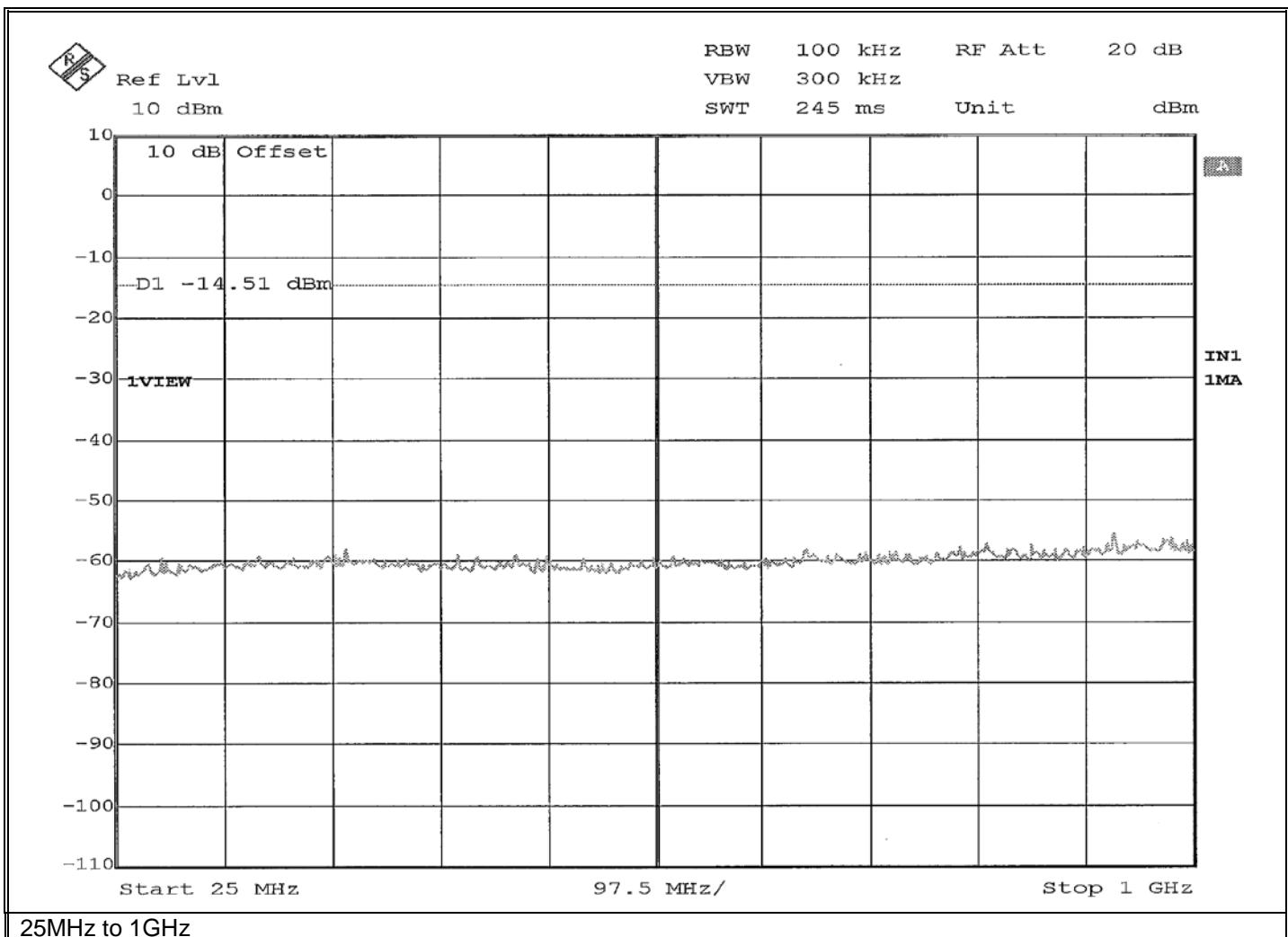


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Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Conducted Out of Band |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2412 MHz |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 20.3 °C / 28.6 % |
| Notes: | Limit: -14.51 dBm |

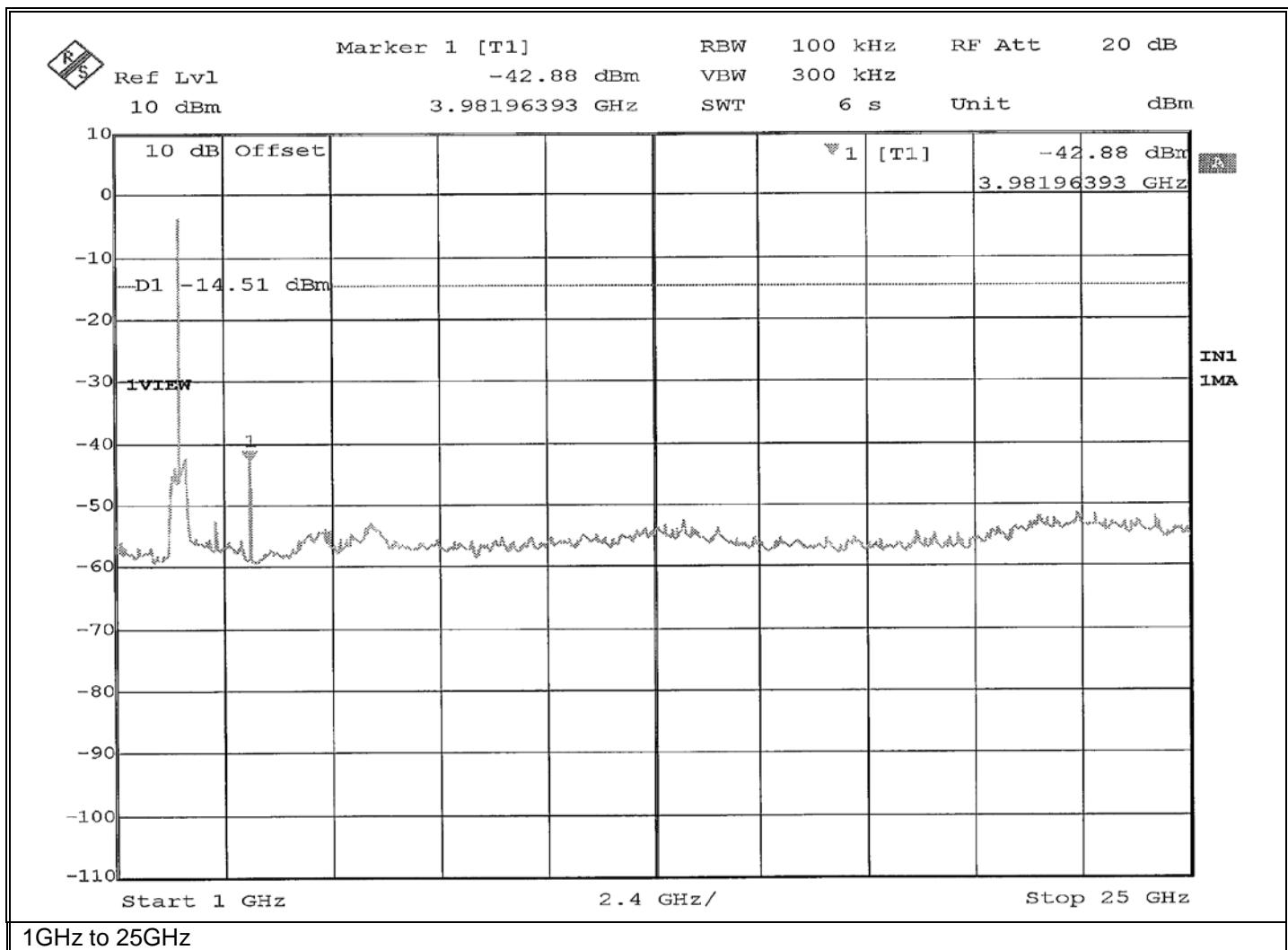


Retlif Testing Laboratories

Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Conducted Out of Band |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2412 MHz |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 20.3 °C / 28.6 % |
| Notes: | Limit: -14.51 dBm |

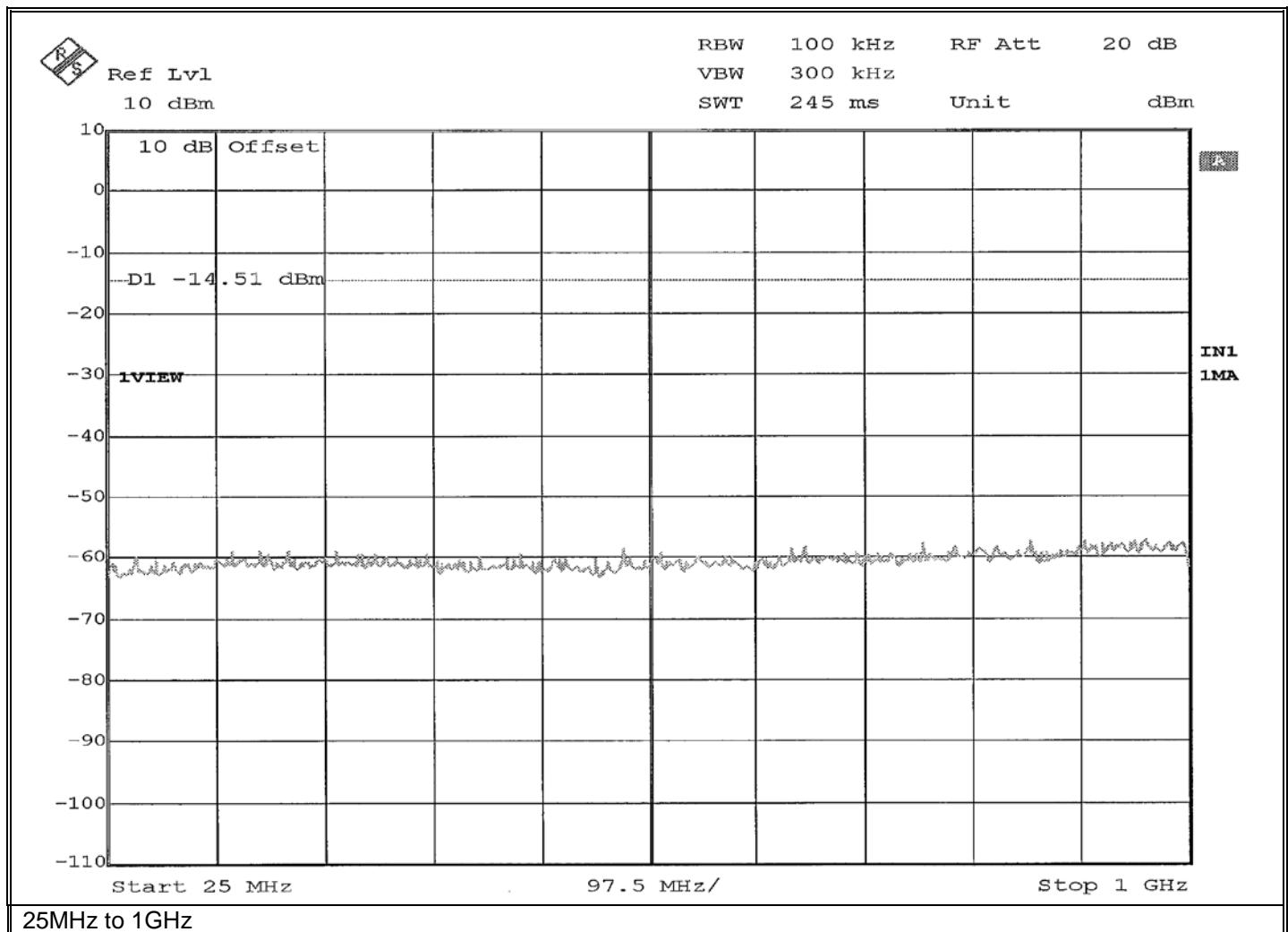


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Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Conducted Out of Band |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2442 MHz |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 20.3 °C / 28.6 % |
| Notes: | Limit: -14.51 dBm |

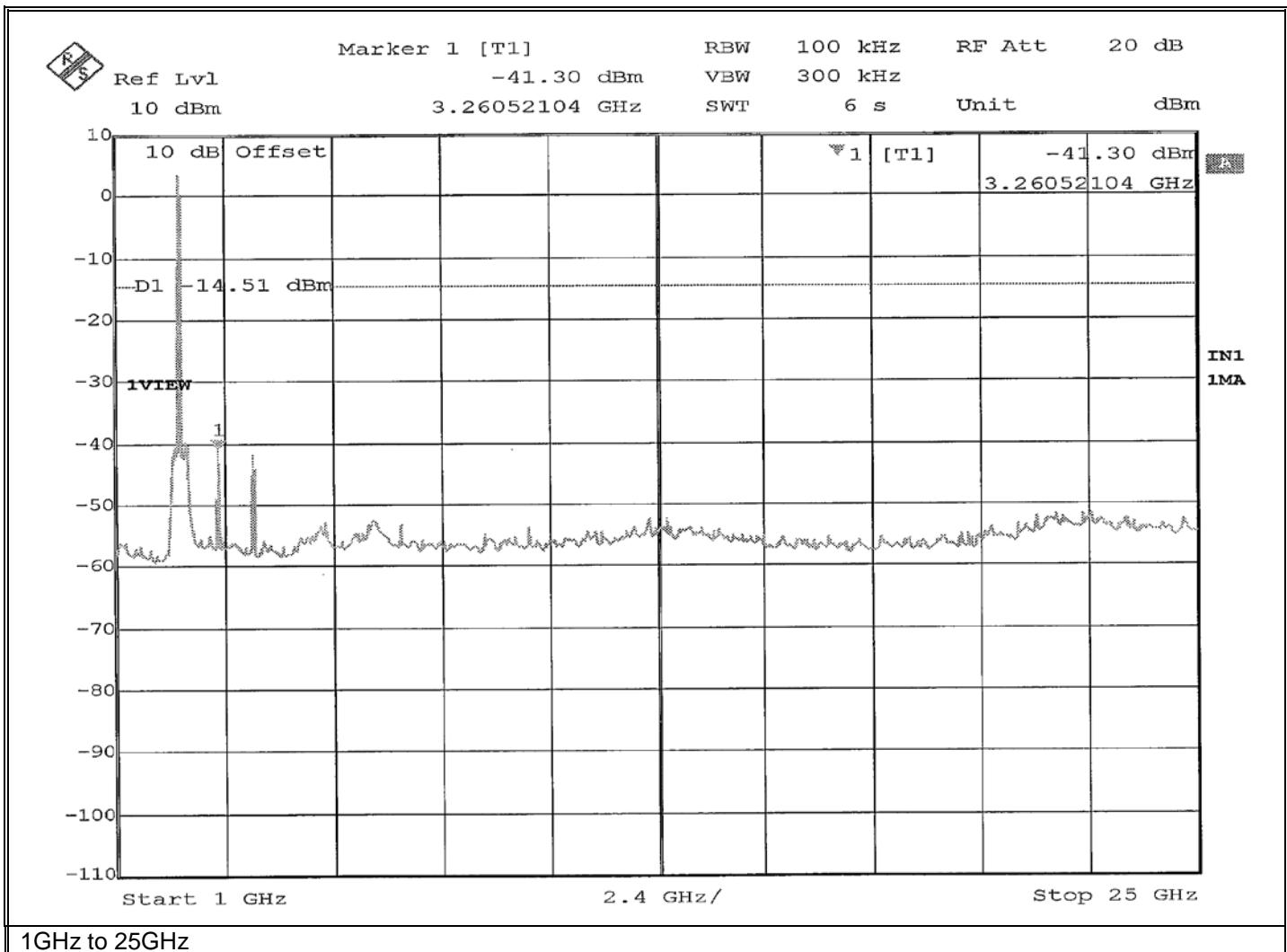


Retrif Testing Laboratories

Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Conducted Out of Band |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2442 MHz |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 20.3 °C / 28.6 % |
| Notes: | Limit: -14.51 dBm |

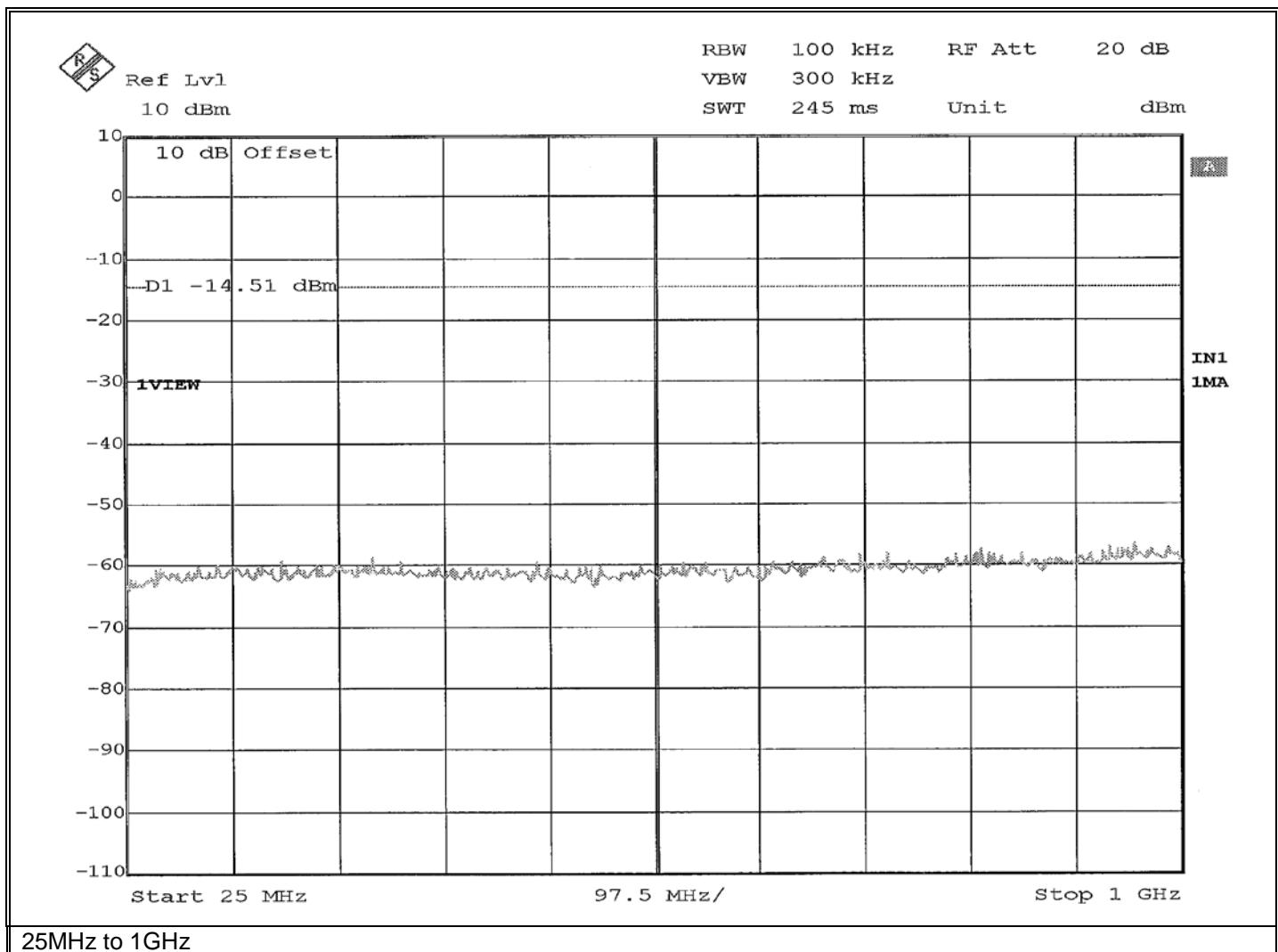


Retlif Testing Laboratories

Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Conducted Out of Band |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2472 MHz |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 20.3 °C / 28.6 % |
| Notes: | Limit: -14.51 dBm |

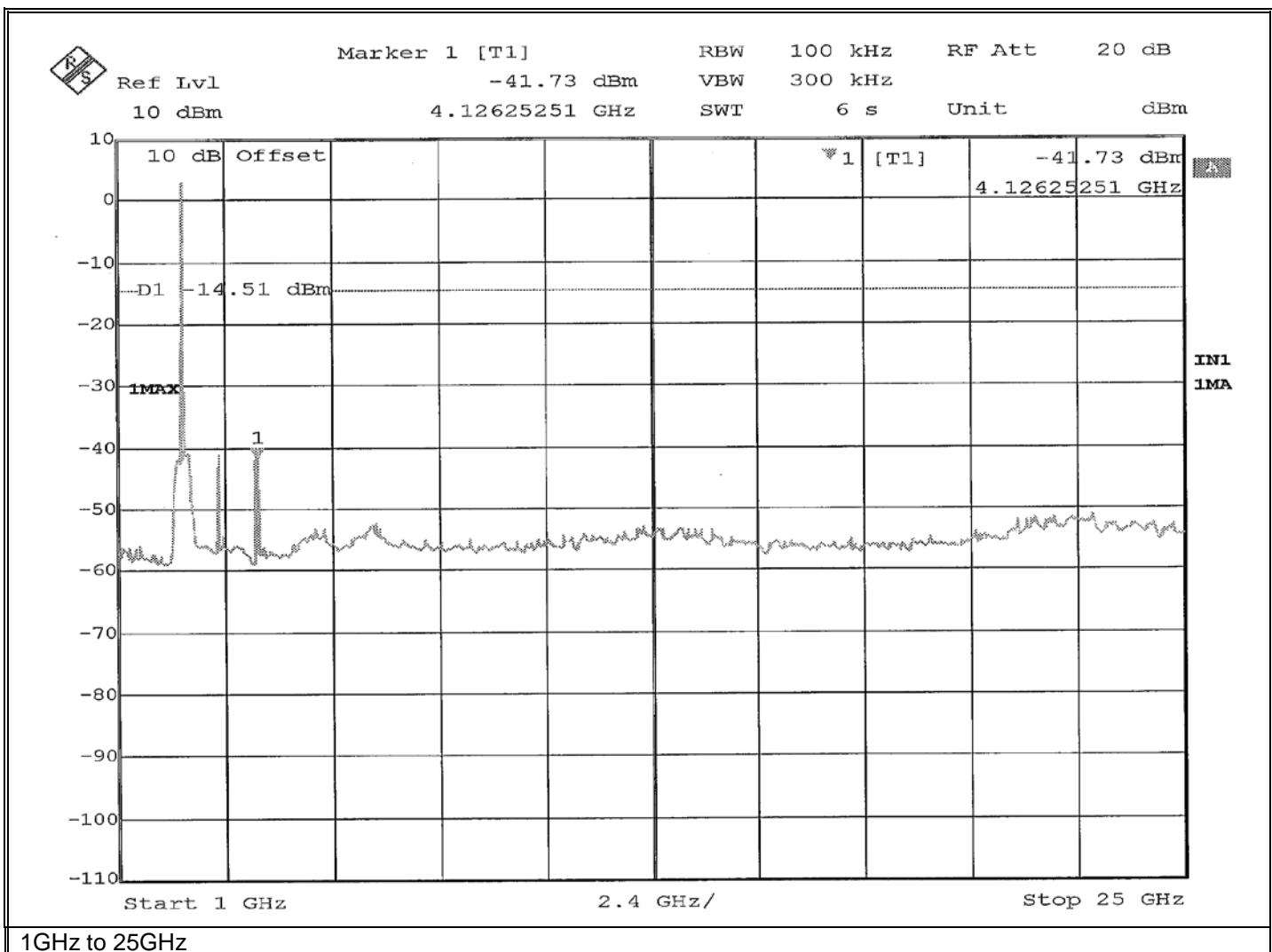


Retlif Testing Laboratories

Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Conducted Out of Band |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2472 MHz |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 20.3 °C / 28.6 % |
| Notes: | Limit: -14.51 dBm |



Retlif Testing Laboratories

Report No. R-6412N-3

**Test Photographs
Antenna Port, Power Density**



Test Setup



Retlif Testing Laboratories

Report No. R-6412N-3

**FCC Part 15, Subpart C, Section 15.247(e)
Antenna Port, Power Density
Test Data**

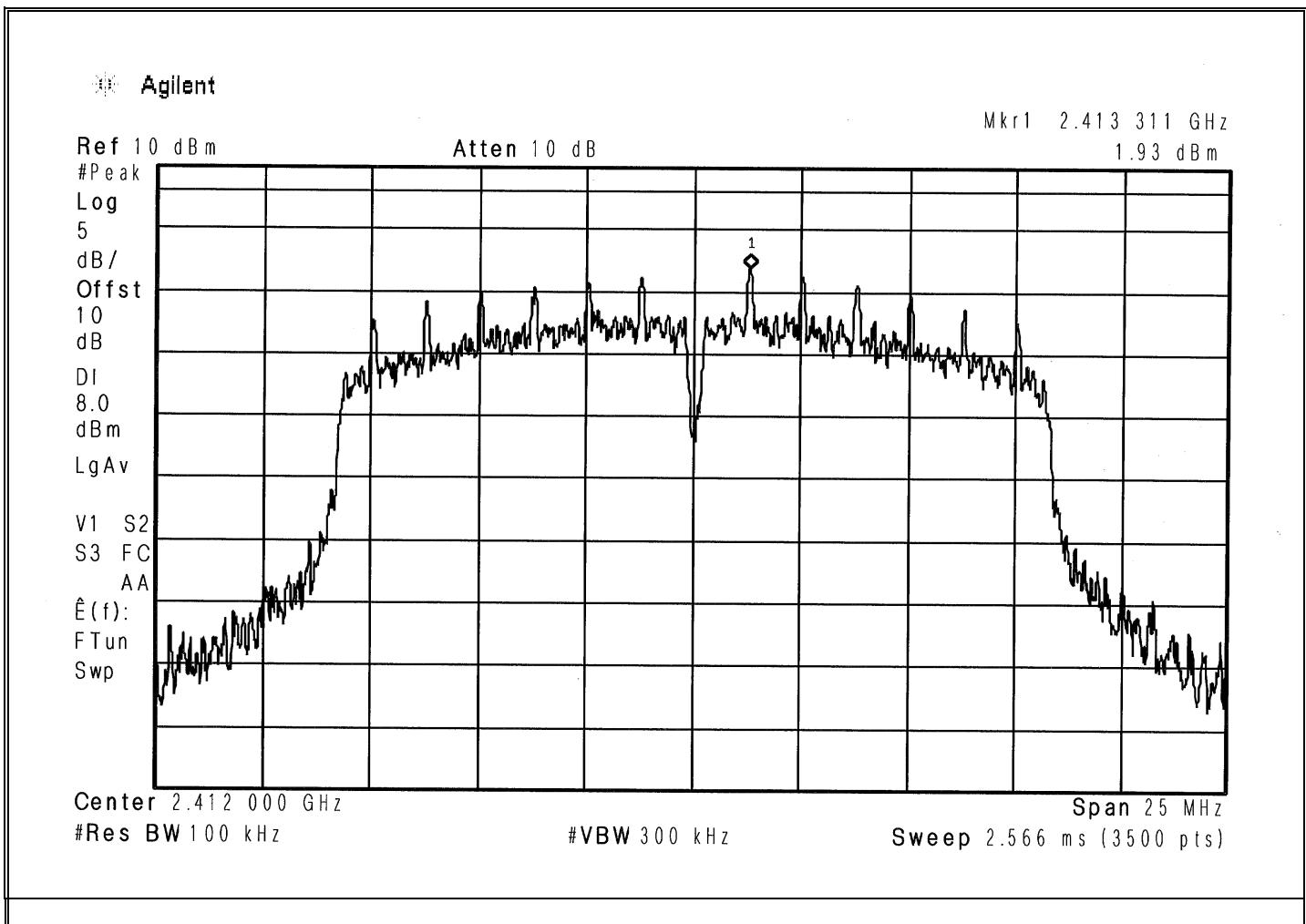


Retlif Testing Laboratories

Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Power Spectral Density |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (e) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2412 MHz (OFDM) |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 19.9 °C / 31.1 % |
| Notes: | Power Spectral Density: 1.93 dBm |

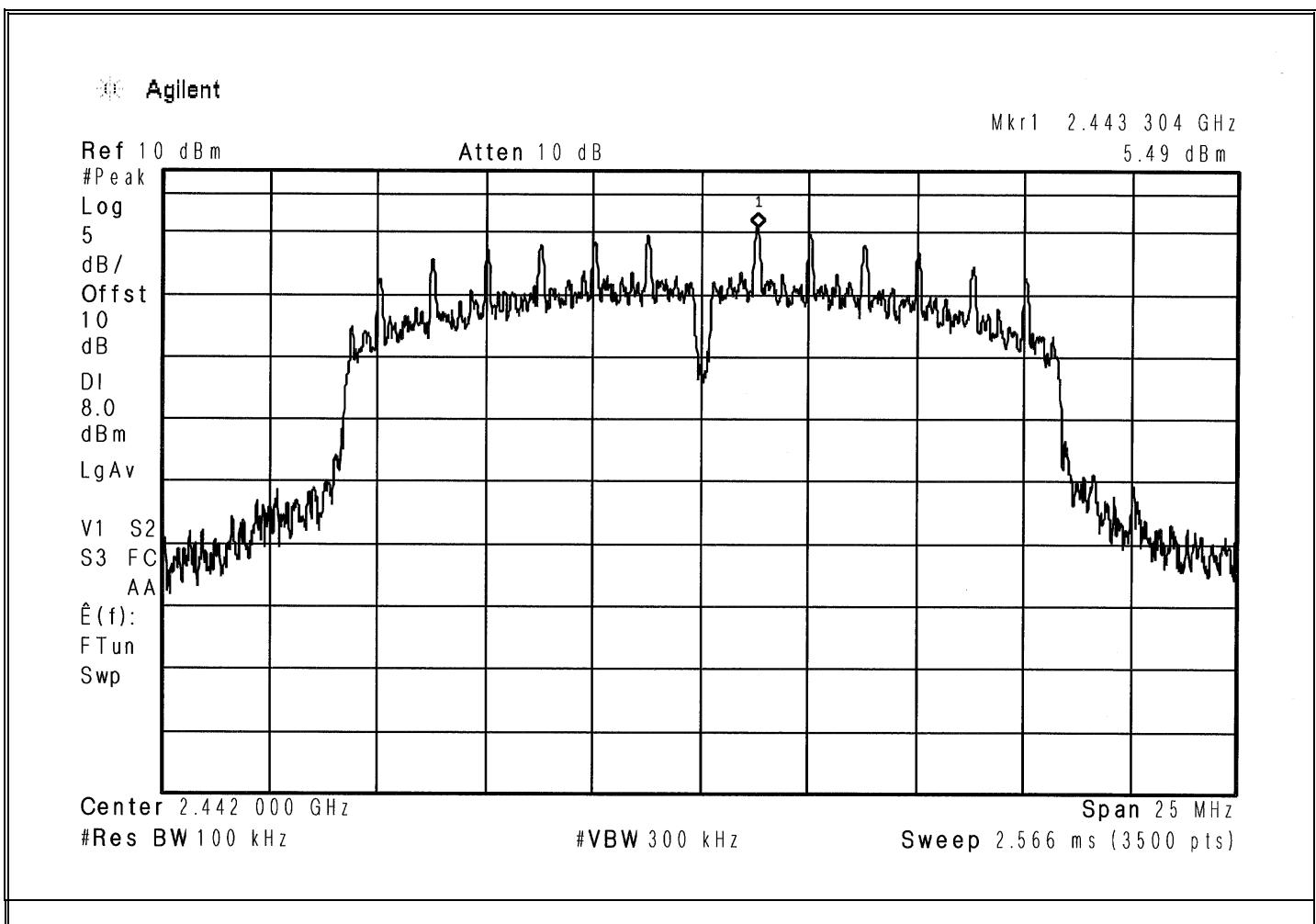


Retlif Testing Laboratories

Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Power Spectral Density |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (e) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2412 MHz (OFDM) |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 19.9 °C / 31.1 % |
| Notes: | Power Spectral Density: 5.49 dBm |

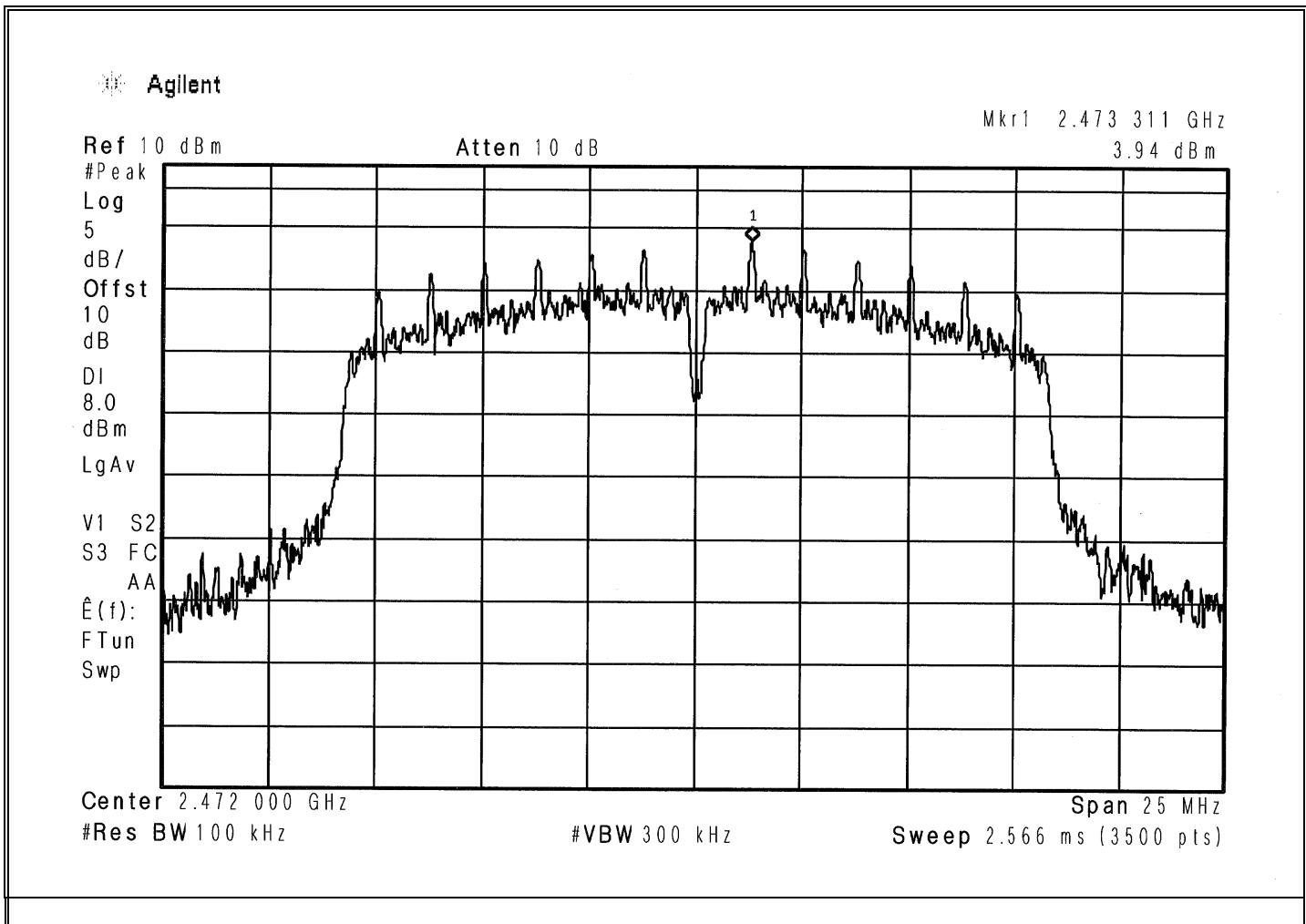


Retlif Testing Laboratories

Report No. R-6412N-3

EMISSIONS TEST DATA SHEET

| | |
|---------------------------------|--|
| Method: | Power Spectral Density |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (e) |
| Job Number: | R-6412N-3 |
| Customer: | Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | N/A |
| Operating Mode: | Transmitting modulated signal at 2412 MHz (OFDM) |
| Technician: | M.Seamans |
| Date(s): | April 18 th , 2019 |
| Temp/ Relative Humidity: | 19.9 °C / 31.1 % |
| Notes: | Power Spectral Density: 3.94 dBm |



Retlif Testing Laboratories

Report No. R-6412N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



EUT Configuration, 80 cm



Retlif Testing Laboratories

Report No. R-6412N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 30 to 200 MHz, Biconical Antenna, 80 cm



Vertical Polarization, 30 to 200 MHz, Biconical Antenna, 80 cm



Retlif Testing Laboratories

Report No. R-6412N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 200 MHz to 1 GHz, Log Periodic, 80 cm



Vertical Polarization, 200 MHz to 1 GHz, Log Periodic, 80 cm



Retlif Testing Laboratories

Report No. R-6412N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 1 to 18 GHz, Double Ridge Guide, 150 cm



Vertical Polarization, 1 to 18 GHz, Double Ridge Guide, 150 cm



Retlif Testing Laboratories

Report No. R-6412N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 18 to 25 GHz, High Gain Horn, 150 cm



Vertical Polarization, 18 to 25 GHz, High Gain Horn, 150 cm



Retlif Testing Laboratories

Report No. R-6412N-3

**FCC Part 15, Subpart B, Section 15.209(a)
Spurious Radiated Emissions, 30 MHz to 25 GHz
Test Data**



Retlif Testing Laboratories

Report No. R-6412N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | | |
|---|--|---|-------------------------|
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | |
| Customer | Immedia Semiconductor LLC | | |
| Job Number | R-6412N-3 | | |
| Test Sample | Outdoor XT2 Blink Camera Module | | |
| Model Number | BCM00200U | | |
| Serial Number | 820-000-523 | | |
| Test Specification | FCC Part 15 Subpart C | | |
| | | | Paragraph: 15.247(d) |
| Operating Mode | Streaming video to laptop | | |
| Technician | M. Seamans | | |
| Date | April 17 th , 2019 | | |
| Notes: Antenna Test Distance: 3 meters | | Detector: Quasi-Peak <1GHz, Average >1GHz | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|---|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 37.50 | - | - | - | - | | | - | 100.00 |
| | 38.00 | 9.32 | 13.28 | 22.60 | * | | 13.49 | |
| 38.25 | - | - | - | - | | | - | 100.00 |
| | | | | | | | | |
| 73.00 | - | - | - | - | | | - | 100.00 |
| | 74.00 | 14.78 | 9.02 | 23.80 | * | | 15.49 | |
| 74.60 | - | - | - | - | | | - | 100.00 |
| | | | | | | | | |
| 74.80 | - | - | - | - | | | - | 100.00 |
| | 75.00 | 13.78 | 9.02 | 22.80 | * | | 13.80 | |
| 75.20 | - | - | - | - | | | - | 100.00 |
| | | | | | | | | |
| 108.00 | - | - | - | - | | | - | 150.00 |
| | 115.00 | 8.34 | 15.46 | 23.80 | * | | 14.62 | |
| | - | - | - | - | | | - | |
| 121.94 | - | - | - | - | | | - | 150.00 |
| | | | | | | | | |
| 123.00 | - | - | - | - | | | - | 150.00 |
| | 130.00 | 8.19 | 15.11 | 23.30 | * | | | |
| | - | - | - | - | | | - | |
| 138.00 | - | - | - | - | | | - | 150.00 |
| | | | | | | | | |

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



Retlif Testing Laboratories

Report No. R-6412N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|---|--|---|
| Test Method | Unwanted Emissions into Restricted Frequency Bands | |
| Customer | Immedia Semiconductor LLC | |
| Job Number | R-6412N-3 | |
| Test Sample | Outdoor XT2 Blink Camera Module | |
| Model Number | BCM00200U | |
| Serial Number | 820-000-523 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Streaming video to laptop | |
| Technician | M. Seamans | |
| Date | April 17 th , 2019 | |
| Notes: Antenna Test Distance: 3 meters | | Detector: Quasi-Peak <1GHz, Average >1GHz |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|---|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 149.90 | - | - | - | - | | | - | 150.00 |
| | 150.00 | 7.03 | 16.07 | 23.10 | * | | 14.29 | |
| 150.05 | - | - | - | - | | | - | 150.00 |
| | | | | | | | | |
| 156.52 | - | - | - | - | | | - | 150.00 |
| | 156.52 | 5.73 | 17.37 | 23.10 | * | | 14.29 | |
| 156.52 | - | - | - | - | | | - | 150.00 |
| | | | | | | | | |
| 156.70 | - | - | - | - | | | - | 150.00 |
| | 156.80 | 5.67 | 17.43 | 23.10 | * | | 14.29 | |
| 156.90 | - | - | - | - | | | - | 150.00 |
| | | | | | | | | |
| 162.01 | - | - | - | - | | | - | 150.00 |
| | 165.00 | 5.57 | 18.63 | 24.20 | * | | 16.22 | |
| 167.17 | - | - | - | - | | | - | 150.00 |
| | | | | | | | | |
| 167.72 | - | - | - | - | | | - | 150.00 |
| | 170.00 | 6.20 | 19.20 | 25.40 | * | | 18.62 | |
| 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-6412N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | | |
|---|--|---|--|
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | |
| Customer | Immedia Semiconductor LLC | | |
| Job Number | R-6412N-3 | | |
| Test Sample | Outdoor XT2 Blink Camera Module | | |
| Model Number | BCM00200U | | |
| Serial Number | 820-000-523 | | |
| Test Specification | FCC Part 15 Subpart C | | |
| Paragraph: | | | |
| Operating Mode | Streaming video to laptop | | |
| Technician | M. Seamans | | |
| Date | April 17 th , 2019 | | |
| Notes: Antenna Test Distance: 3 meters | | Detector: Quasi-Peak <1GHz, Average >1GHz | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|---|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 240.00 | - | - | - | - | | | - | 200.00 |
| | 260.00 | 5.01 | 16.59 | 21.60 | * | | 12.02 | |
| 285.00 | - | - | - | - | | | - | 200.00 |
| | | | | | | | | |
| 322.80 | - | - | - | - | | | - | 200.00 |
| | 330.00 | 4.71 | 18.99 | 23.70 | * | | 15.31 | |
| 335.40 | - | - | - | - | | | - | 200.00 |
| | | | | | | | | |
| 399.90 | - | - | - | - | | | - | 200.00 |
| | 405.00 | 4.55 | 20.85 | 25.40 | * | | 18.62 | |
| 410.00 | - | - | - | - | | | - | 200.00 |
| | | | | | | | | |
| 608.00 | - | - | - | - | | | - | 200.00 |
| | 611.00 | 4.72 | 25.88 | 30.60 | * | | 33.88 | |
| 614.00 | - | - | - | - | | | - | 200.00 |
| | | | | | | | | |
| 960.00 | - | - | - | - | | | - | 500.00 |
| | 975.00 | 4.60 | 33.10 | 37.70 | * | | 76.74 | |
| 1240.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 1300.00 | - | - | - | - | | | - | 500.00 |
| | 1350.00 | 31.94 | -9.40 | 22.54 | * | | 13.40 | |
| 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-6412N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|---|--|-------------------------|
| Test Method | Unwanted Emissions into Restricted Frequency Bands | |
| Customer | Immedia Semiconductor LLC | |
| Job Number | R-6412N-3 | |
| Test Sample | Outdoor XT2 Blink Camera Module | |
| Model Number | BCM00200U | |
| Serial Number | 820-000-523 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Streaming video to laptop | |
| Technician | M. Seamans | |
| Date | April 17 th , 2019 | |
| Notes: Antenna Test Distance: 3 meters | Detector: Quasi-Peak <1GHz, Average >1GHz | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|---|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 1435.00 | - | - | - | - | | | - | 500.00 |
| | 1500.00 | 32.25 | -8.64 | 23.61 | * | | 15.15 | |
| 1646.50 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 1660.00 | - | - | - | - | | | - | 500.00 |
| | 1680.00 | 32.10 | -7.81 | 24.29 | * | | 16.39 | |
| 1710.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 1718.80 | - | - | - | - | | | - | 500.00 |
| | 1720.00 | 32.00 | -7.65 | 24.35 | * | | 16.50 | |
| 1722.20 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 2200.00 | - | - | - | - | | | - | 500.00 |
| | 2250.00 | 31.31 | -5.78 | 25.53 | * | | 18.90 | |
| 2300.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 2310.00 | - | - | - | - | | | - | 500.00 |
| | 2390.00 | 42.80 | -5.46 | 37.34 | | | 73.62 | |
| 2390.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 2483.50 | - | - | - | - | | | - | 500.00 |
| | 2490.00 | 28.91 | -5.11 | 23.80 | * | | 15.43 | |
| 2500.00 | - | - | - | - | | | - | 500.00 |

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-6412N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|---|--|-------------------------|
| Test Method | Unwanted Emissions into Restricted Frequency Bands | |
| Customer | Immedia Semiconductor LLC | |
| Job Number | R-6412N-3 | |
| Test Sample | Outdoor XT2 Blink Camera Module | |
| Model Number | BCM00200U | |
| Serial Number | 820-000-523 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Streaming video to laptop | |
| Technician | M. Seamans | |
| Date | April 17 th , 2019 | |
| Notes: Antenna Test Distance: 3 meters | Detector: Quasi-Peak <1GHz, Average >1GHz | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|---|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 2690.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| | 2750.00 | 31.64 | -4.45 | 27.19 | * | | 22.88 | |
| | - | - | - | - | | | - | |
| 2900.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3260.00 | - | - | - | - | | | - | 500.00 |
| | 3263.00 | 31.05 | -2.88 | 28.17 | * | | 25.62 | |
| 3267.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3332.00 | - | - | - | - | | | - | 500.00 |
| | 3336.00 | 31.42 | -2.62 | 28.80 | * | | 27.54 | |
| 3339.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3345.00 | - | - | - | - | | | - | 500.00 |
| | 3350.00 | 31.97 | -2.57 | 29.40 | * | | 29.51 | |
| 3358.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3600.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| | 3700.00 | 30.87 | -1.52 | 29.35 | * | | 29.34 | |
| | - | - | - | - | | | - | |

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-6412N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | | |
|---|--|--|--|
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | |
| Customer | Immedia Semiconductor LLC | | |
| Job Number | R-6412N-3 | | |
| Test Sample | Outdoor XT2 Blink Camera Module | | |
| Model Number | BCM00200U | | |
| Serial Number | 820-000-523 | | |
| Test Specification | FCC Part 15 Subpart C | | |
| Paragraph: | | | |
| Operating Mode | Streaming video to laptop | | |
| Technician | M. Seamans | | |
| Date | April 17 th , 2019 | | |
| Notes: Antenna Test Distance: 3 meters | Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|---|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| | - | - | - | - | | | - | |
| 4400.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 4500.00 | - | - | - | - | | | - | 500.00 |
| | 4800.00 | 34.66 | 0.29 | 34.95 | * | | 55.91 | |
| 5150.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 5350.00 | - | - | - | - | | | - | 500.00 |
| | 5400.00 | 32.52 | 0.92 | 33.44 | * | | 46.99 | |
| 5460.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 7250.00 | - | - | - | - | | | - | 500.00 |
| | 7440.00 | 32.35 | 3.65 | 36.00 | * | | 63.10 | |
| 7750.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 8025.00 | - | - | - | - | | | - | 500.00 |
| | 8300.00 | 32.28 | 4.43 | 36.71 | * | | 68.47 | |
| 8500.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 9000.00 | - | - | - | - | | | - | 500.00 |
| | 9100.00 | 33.70 | 5.10 | 38.80 | * | | 87.10 | |
| 9200.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |

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



Retlif Testing Laboratories

Report No. R-6412N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | | |
|---|--|--|--|
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | |
| Customer | Immedia Semiconductor LLC | | |
| Job Number | R-6412N-3 | | |
| Test Sample | Outdoor XT2 Blink Camera Module | | |
| Model Number | BCM00200U | | |
| Serial Number | 820-000-523 | | |
| Test Specification | FCC Part 15 Subpart C | | |
| | | | |
| Operating Mode | Streaming video to laptop | | |
| Technician | M. Seamans | | |
| Date | April 17 th , 2019 | | |
| Notes: Antenna Test Distance: 3 meters | Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|---|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 9300.00 | - | - | - | - | | | - | 500.00 |
| | 9400.00 | 32.76 | 5.38 | 38.14 | * | | 80.72 | |
| 9500.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 10600.00 | - | - | - | - | | | - | 500.00 |
| | 12200.00 | 33.17 | 7.90 | 41.07 | * | | 113.11 | |
| 12700.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 13250.00 | - | - | - | - | | | - | 500.00 |
| | 13300.00 | 33.50 | -1.05 | 32.45 | * | | 41.93 | |
| 13400.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 14470.00 | - | - | - | - | | | - | 500.00 |
| | 14490.00 | 34.25 | -0.58 | 33.67 | * | | 48.25 | |
| 14500.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 15350.00 | - | - | - | - | | | - | 500.00 |
| | 15800.00 | 34.37 | 0.01 | 34.38 | * | | 52.36 | |
| 16200.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 17700.00 | - | - | - | - | | | - | 500.00 |
| | 19240.00 | 33.08 | -6.25 | 26.83 | * | | 21.95 | |
| 21400.00 | - | - | - | - | | | - | 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-6412N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| EMISSIONS TEST DATA SHEET | | |
|---|--|-------------------------|
| Test Method | Unwanted Emissions into Restricted Frequency Bands | |
| Customer | Immedia Semiconductor LLC | |
| Job Number | R-6412N-3 | |
| Test Sample | Outdoor XT2 Blink Camera Module | |
| Model Number | BCM00200U | |
| Serial Number | 820-000-523 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Streaming video to laptop | |
| Technician | M. Seamans | |
| Date | April 17 th , 2019 | |
| Notes: Antenna Test Distance: 3 meters | Detector: Quasi-Peak <1GHz, Average >1GHz | |

TEST PARAMETERS

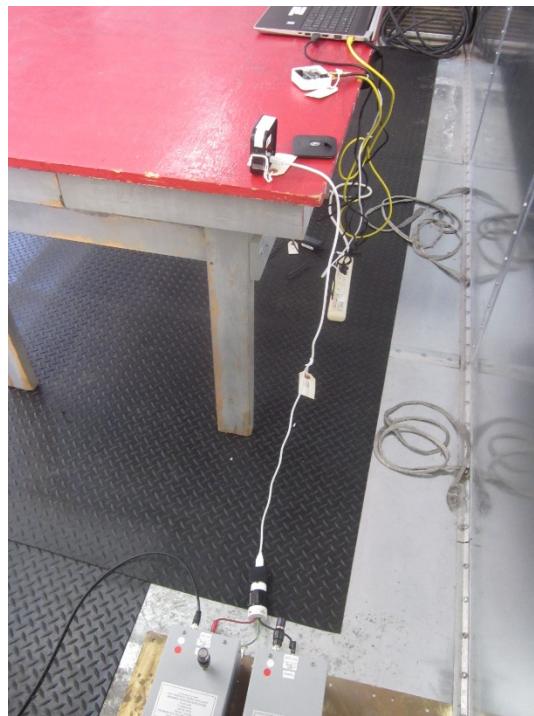
No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).



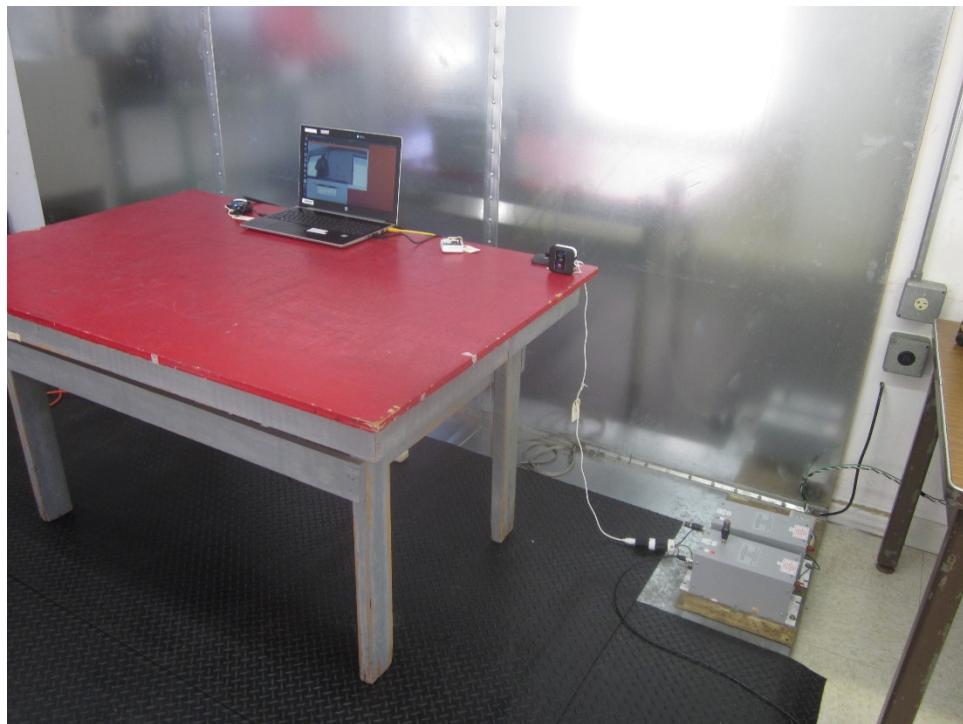
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Report No. R-6412N-3

Test Photographs
Conducted Emissions, Power Leads, 150 kHz to 30 MHz



EUT Configuration



Test Setup



Retlif Testing Laboratories

Report No. R-6412N-3

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



Retlif Testing Laboratories

Report No. R-6412N-3

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-6412N-3 / Immedia Semiconductor LLC |
| Test Sample: | Outdoor XT2 Blink Camera Module |
| Model Number: | BCM00200U |
| Serial Number: | 820-000-523 |
| Operating Mode: | Sending video to laptop via sync module |
| Technician: | M. Seamans |
| Date(s): | April 17 th , 2019 |
| Temp/ Relative Humidity: | 20.0 °C / 31.8 % |
| Lead Tested: | 120 VAC 60 Hz |

| Frequency | Lead Tested | Peak Meter Reading | Quasi-Peak Meter Reading | Average Meter Reading | Quasi-Peak Limit | Average Limit |
|-----------|-------------|--------------------|--------------------------|-----------------------|------------------|---------------|
| MHz | | dBuV | dBuV | dBuV | dBuV | dBuV |
| 0.158 | Hot | 38.05 | 34.60 | 21.10 | 65.57 | 55.57 |
| 0.150 | Neutral | 41.74 | 36.00 | 21.30 | 66.00 | 56.00 |
| 0.230 | Hot | 39.16 | 34.70 | 20.60 | 62.45 | 52.45 |
| 0.206 | Neutral | 39.96 | 35.00 | 19.30 | 63.37 | 53.37 |
| 0.382 | Hot | 39.16 | 34.40 | 25.10 | 58.24 | 48.24 |
| 0.258 | Neutral | 38.90 | 37.20 | 19.10 | 61.50 | 51.50 |
| 0.412 | Hot | 42.11 | 40.20 | 31.40 | 57.61 | 47.61 |
| 0.466 | Neutral | 40.31 | 36.30 | 23.30 | 56.58 | 46.58 |
| 0.722 | Hot | 37.79 | 33.10 | 21.90 | 56 | 46 |
| 0.882 | Neutral | 38.40 | 33.70 | 21.20 | 56 | 46 |
| 1.150 | Hot | 35.70 | 31.20 | 23.30 | 56 | 46 |
| 2.158 | Neutral | 35.19 | 28.60 | 17.40 | 56 | 46 |

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

The six highest emissions relative to the limit are presented.

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



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