

RONGYEJIA ELECTRONICS LTD

TEST REPORT

SCOPE OF WORK

FCC Testing-iUVC1

REPORT NUMBER

200630046SZN-001

ISSUE DATE

13 August 2020

[REVISED DATE]

PAGES

58

DOCUMENT CONTROL NUMBER

FCC ID 247_b © 2017 INTERTEK





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Intertek Report No.: 200630046SZN-001

RONGYEJIA ELECTRONICS LTD

Application For Certification

FCC ID: 2AW6R-IUVC1

iUVC1 UVC Smart Lamp

Model: iUVC1

2.4GHz Wi-Fi Transceiver

Report No.: 200630046SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-19]

| Prepared and Checked by: | Approved by: |
|--------------------------|-----------------------------|
| | |
| Judy Xu | Peter Kang |
| Asst. Engineer | Senior Technical Supervisor |
| - | Date: 13 August 2020 |

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Intertek Testing Services Shenzhen Ltd. Longhua Branch

101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China.

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MEASUREMENT/TECHNICAL REPORT

| This report concerns (check one) | Original Grant X Class II Change |
|--|---|
| Equipment Type: <u>DTS - Part 15 Digital T</u> | Transmission Systems (Wi-Fi transmitter portion) |
| Deferred grant requested per 47 CFR 0 | 0.457(d)(1)(ii)? Yes NoX |
| Company Name agrees to notify the Co | If yes, defer until: date ommission by: |
| Company Name agrees to notify the Co | date |
| of the intended date of announcement that date. | nt of the product so that the grant can be issued on |
| Transition Rules Request per 15.37? | Yes NoX |
| If no, assumed Part 15, Subpart C for Edition provision. | r intentional radiator - the new 47 CFR [10-01-19] |
| Report prepared by: | |
| | Judy Xu Intertek Testing Services Shenzhen Ltd. Longhua Brance 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHu District, Shenzhen, P.R. China. Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6661 |

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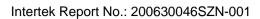




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1.0 Summary of Test results

Applicant: RONGYEJIA ELECTRONICS LTD

Applicant Address: Baiyun 1 Road 172#, Danshui Town, Huiyang District Huizhou City

Manufacturer: RONGYEJIA ELECTRONICS LTD

Manufacturer Address: Baiyun 1 Road 172#, Danshui Town, Huiyang District Huizhou City

Model: iUVC1 FCC ID: 2AW6R-IUVC1

| TEST ITEM | REFERENCE | RESULTS |
|--|----------------------------------|---------------------|
| Max. Output power | 15.247(b)(3) | Pass |
| 6 dB Bandwidth | 15.247(a)(2) | Pass |
| Max. Power Density | 15.247(e) | Pass |
| Out of Band Antenna Conducted Emission | 15.247(d) | Pass |
| Radiated Emission in Restricted Bands | 15.247(d), 15.209, FCC 15.205 | Pass |
| AC Conducted Emission | 15.207 | Pass |
| Antenna Requirement | 15.203 | Pass (See Notes) |

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

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2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a iUVC1 UVC Smart Lamp with Wi-Fi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing and 5.8G microwave inductor at 5800 MHz. The EUT is powered by AC120V/60Hz. For more detailed features description, please refer to the user's manual.

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Type of Modulation: BPSK, QPSK, 16QAM, 64QAM for OFDM; CCK, DQPSK, DBPSK for DSSS.

Antenna Type: Integral Antenna

Antenna Gain: 2dBi

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of:

DTS- Part 15 Digital Transmission Systems (2.4GHz Wi-Fi transmitter portion).

Remaining portions are subject to the following procedures:

- 1. Receiver portion of WiFi: exempt from technical requirement of this Part.
- 2. Other Digital Function: Subject to FCC Part 18 SDOC.
- 3. For the 5.8G microwave inductor function was tested and demonstrated in report 200630046SZN-002

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013) and KDB 558074 D01 v05r02. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application.

2.4 Test Facility

The Semi-anechoic chamber and shielded room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

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3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by AC120V/60Hz during the test.

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On 802.11b/g/n-HT20 mode, only one antenna is used, and all data rate were tested and only the worst case data is shown in the report.

For maximizing emissions, the EUT was rotated through 360°, the EUT was placed on the styrene turntable with 0.8m up to 1GHz and 1.5 m above 1GHz. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

The rear of unit shall be flushed with the rear of the table.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Test software: SecureCRT, Version 7.2.3

3.3 Special Accessories

N/A.

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3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

3.5 Equipment Modification

Any modifications installed previous to testing by RONGYEJIA ELECTRONICS LTD will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

3.6 Support Equipment List and Description

| Description | Manufacturer | Model No. |
|-----------------|--------------|------------|
| Mobile Phone | Samsung | SM-G9300 |
| Wireless router | TP-LINK | TL-WDR7500 |

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 18, 2020 Model: iUVC1

4.0 Measurement Results

4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter have a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

| IEEE 802.11b (Antenna Gain = 2dBi) (CCK, 1Mbps) | | | |
|--|-------|--------|--|
| Frequency (MHz) Output in dBm (Peak Reading) Output in mWatt | | | |
| Low Channel: 2412 | 21.04 | 127.06 | |
| Middle Channel: 2437 20.12 102.80 | | 102.80 | |
| High Channel: 2462 19.25 84.14 | | | |

| IEEE 802.11g (Antenna Gain = 2dBi) (16QAM, 6Mbps) | | | |
|--|-------|--------|--|
| Frequency (MHz) Output in dBm (Peak Reading) Output in mWatt | | | |
| Low Channel: 2412 | 22.69 | 185.78 | |
| Middle Channel: 2437 | 22.72 | 187.07 | |
| High Channel: 2462 | 22.42 | 174.58 | |

| IEEE 802.11n-HT20 (Antenna Gain = 2dBi) (64QAM, 6Mbps) | | | |
|--|-------|--------|--|
| Frequency (MHz) Output in dBm (Peak Reading) Output in mWatt | | | |
| Low Channel: 2412 | 22.80 | 190.55 | |
| Middle Channel: 2437 22.78 189.67 | | 189.67 | |
| High Channel: 2462 | 22.53 | 179.06 | |

Cable loss: 0.5 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT max. output level = 22.80dBm

EUT max. E.I.R.P = 22.80dBm + 2dBi = 24.80dBm = 302.00mW

For RF Exposure, the information is saved with filename: RF exposure.pdf.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 18, 2020 Model: iUVC1

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a) (2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074 D01 v05r02. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

| IEEE 802.11b (CCK, 1Mbps) | | |
|--------------------------------------|-------|--|
| Frequency (MHz) 6 dB Bandwidth (MHz) | | |
| 2412 | 9.074 | |
| 2437 | 9.074 | |
| 2462 | 9.030 | |

| IEEE 802.11g (16QAM, 6Mbps) | | |
|--------------------------------------|--------|--|
| Frequency (MHz) 6 dB Bandwidth (MHz) | | |
| 2412 | 15.803 | |
| 2437 | 16.064 | |
| 2462 | 16.064 | |

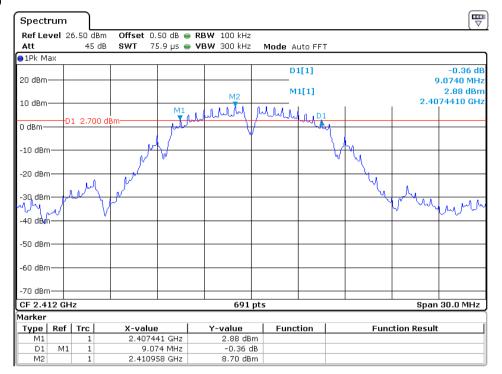
| IEEE 802.11n-HT20 (64QAM, 6Mbps) | | |
|--------------------------------------|--------|--|
| Frequency (MHz) 6 dB Bandwidth (MHz) | | |
| 2412 | 16.281 | |
| 2437 | 16.281 | |
| 2462 | 16.064 | |

The test plots are attached as below.

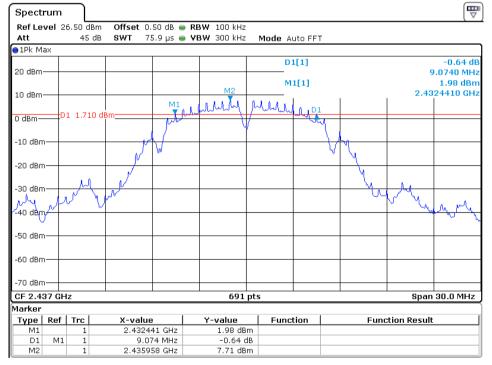
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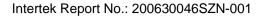
802.11b



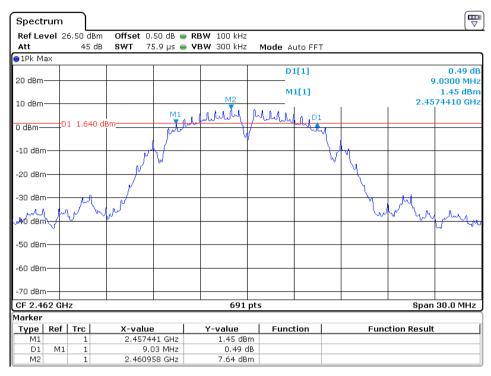
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Date:18.JUL.2020 15:38:53

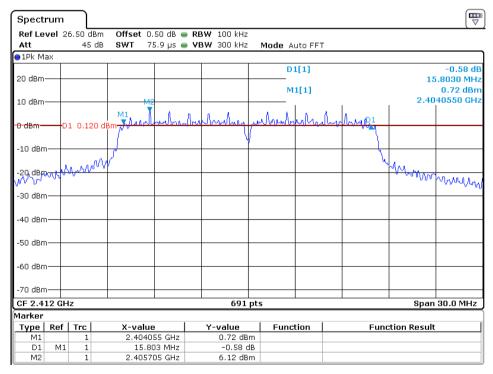






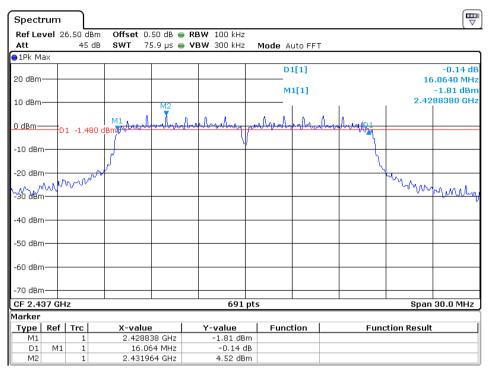
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802.11g

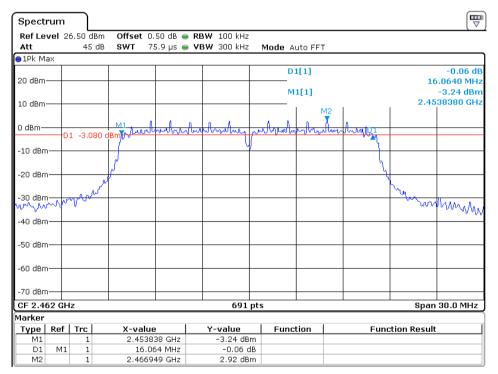


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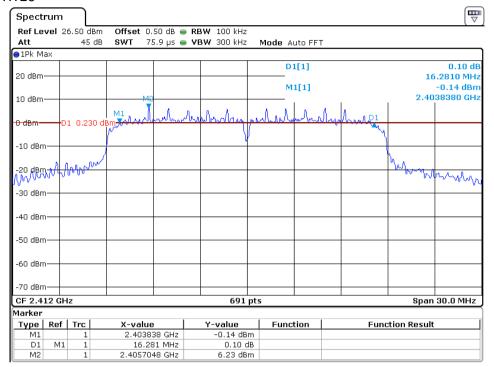
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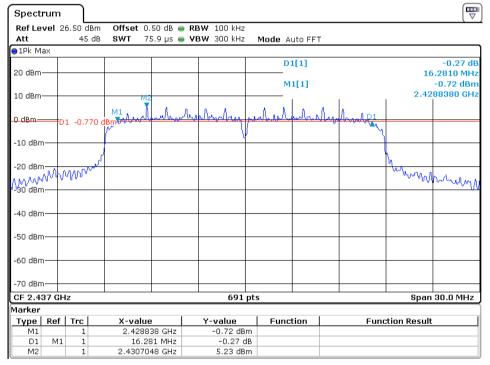
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802.11n-HT20



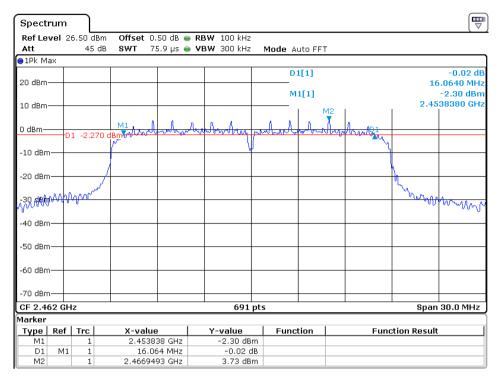
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Date:18.JUL.2020 15:23:42

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Date:18.JUL.2020 15:20:09



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Date of Test: July 18, 2020 Model: iUVC1

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074 D01 v05r02.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Density does not exceed 8dBm/3 kHz.

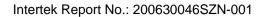
| IEEE 802.11b (CCK, 1Mbps) | | |
|---|------|--|
| Frequency (MHz) Power Density with RBW 100KHz | | |
| 2412 | 7.71 | |
| 2437 | 7.55 | |
| 2462 | 6.48 | |

| IEEE 802.11g (16QAM, 6Mbps) | |
|-----------------------------|-------------------------------|
| Frequency (MHz) | Power Density with RBW 100KHz |
| 2412 | 5.42 |
| 2437 | 4.40 |
| 2462 | 2.87 |

| IEEE 802.11n-HT20 (64QAM, 6Mbps) | |
|----------------------------------|-------------------------------|
| Frequency (MHz) | Power Density with RBW 100KHz |
| 2412 | 5.80 |
| 2437 | 5.09 |
| 2462 | 3.63 |

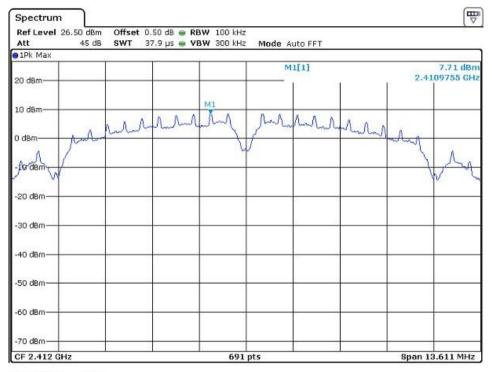
The test plots are attached as below.

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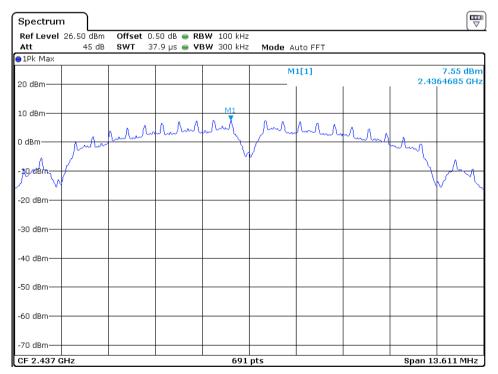




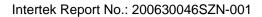
802.11b



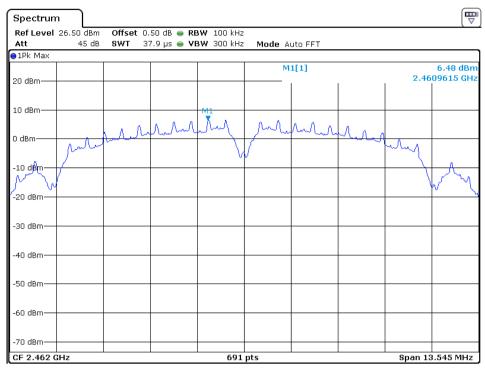
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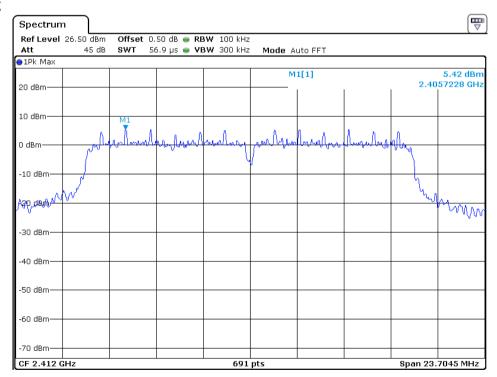






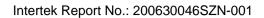
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802.11g

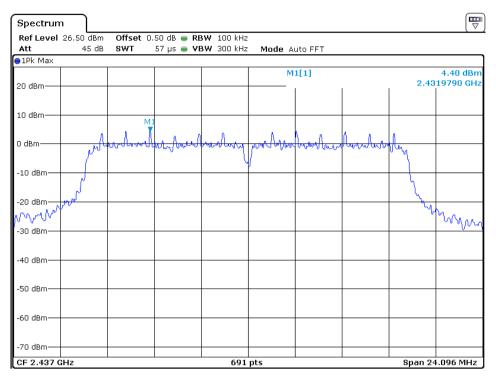


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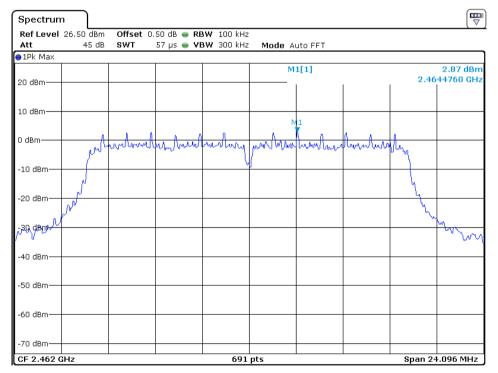
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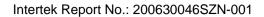




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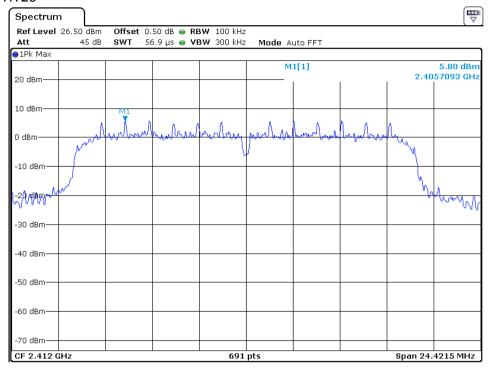


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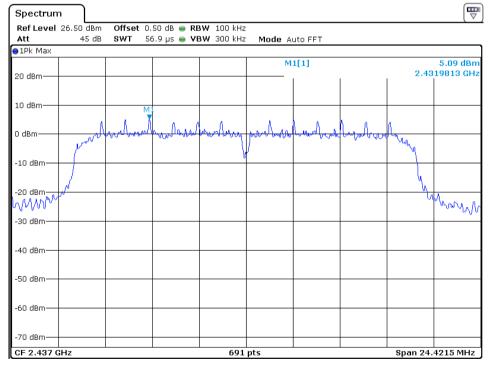




802.11n-HT20

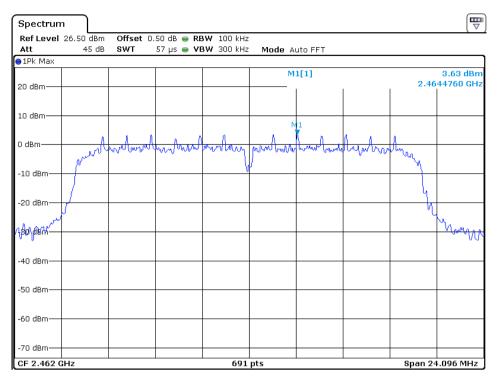


Date:18.JUL.2020 15:30:18



Date:18.JUL.2020 15:24:06





Date:18.JUL.2020 15:20:40



Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 18, 2020 - Aug 06, 2020 Model: iUVC1

4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

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. The Measurement Procedure was set according to the FCC KDB 558074 D01 v05r02.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

Refer to the attached test plots for out of band conducted emissions data with rate of 1Mbps for 802.11b and 6Mbps for 802.11g and 6Mbps for 802.11n-HT20.

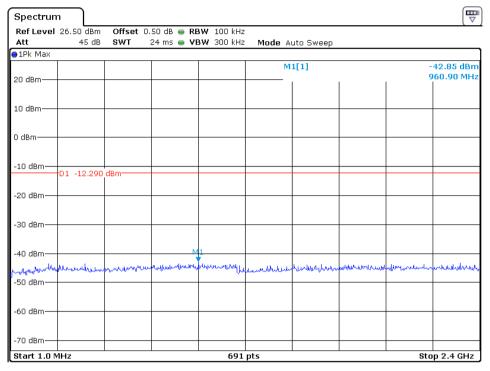
The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

The test plots are attached as below.

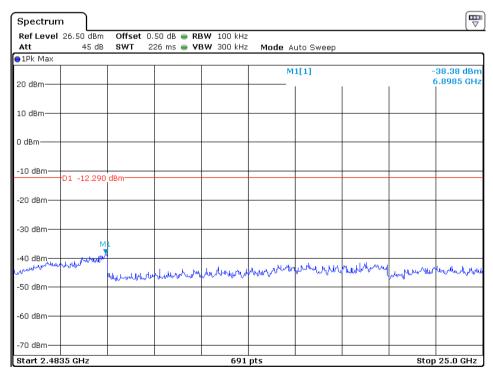
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802.11b Channel 01 (2412MHz) Reference Level: 7.71dBm



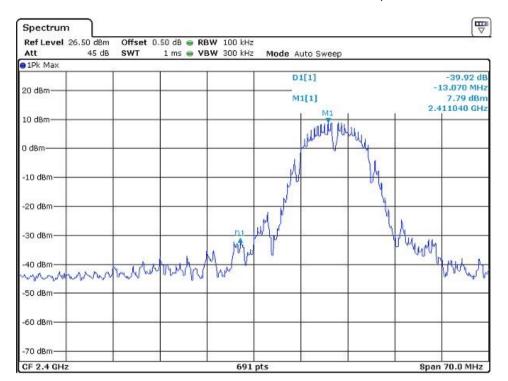
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Date: 6 AUG 2020 10:47:15

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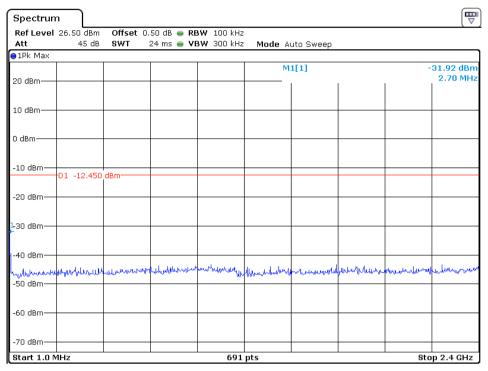




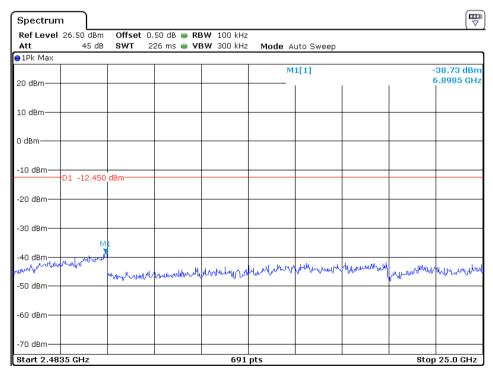
Date: 18.JUL 2020 15:32:00



Channel 06 (2437MHz) Reference Level: 7.55dBm



Date: 18.JUL.2020 15:39:47

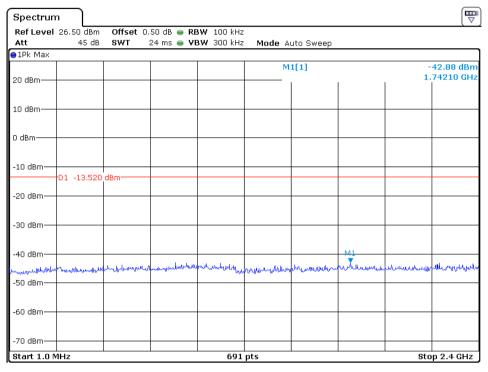


Date: 18.JUL.2020 15:40:02

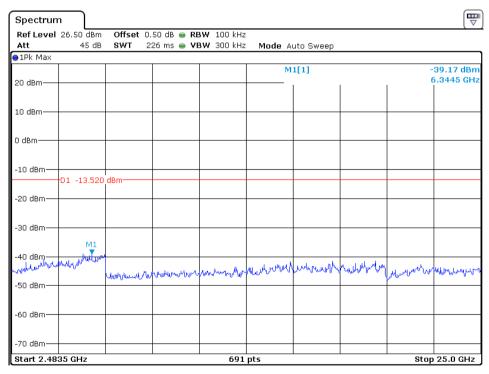
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Channel 11 (2462MHz) Reference Level: 6.48dBm



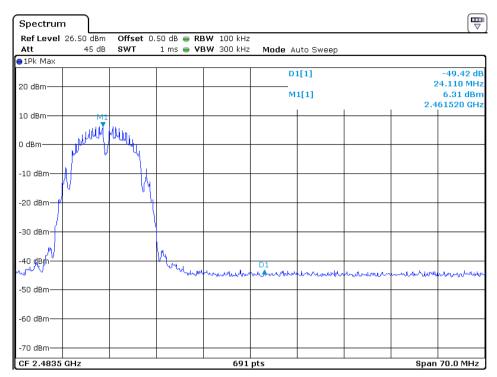
Date:18.JUL.2020 15:54:19



Date:18.JUL.2020 15:54:55

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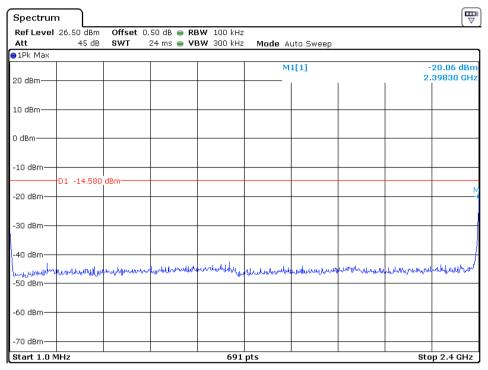


Date:18.JUL.2020 15:57:06

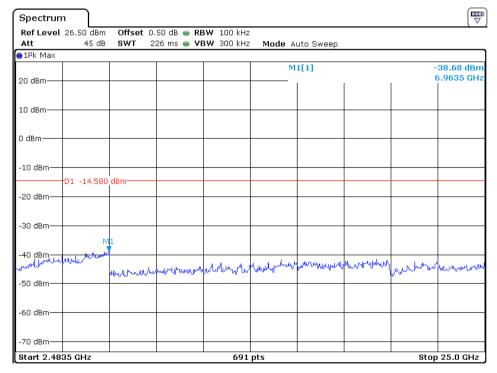


22.41

802.11g Channel 01 (2412MHz) Reference Level: 5.42dBm



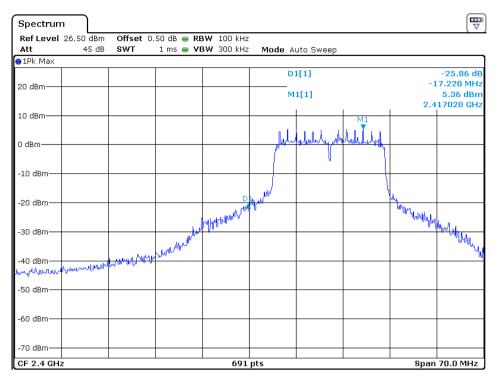
Date:18.JUL.2020 15:59:27



Date: 18.JUL.2020 15:59:48

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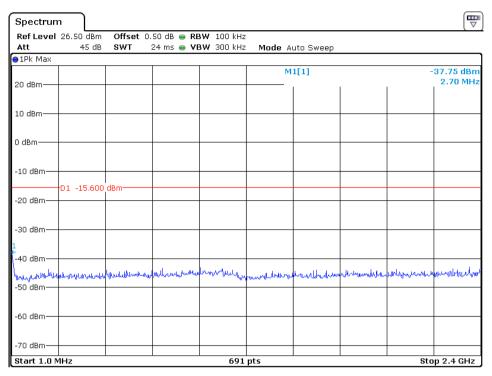




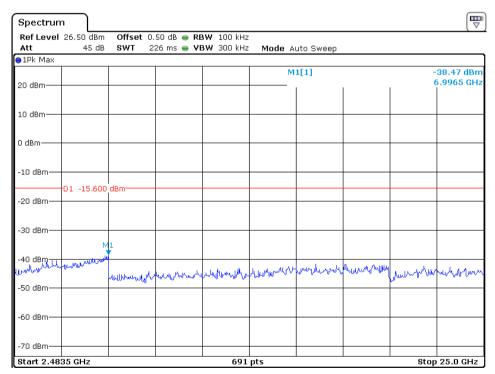
Date:18.JUL.2020 16:00:07



Channel 06 (2437MHz) Reference Level: 4.40dBm



Date:18.JUL.2020 16:02:17

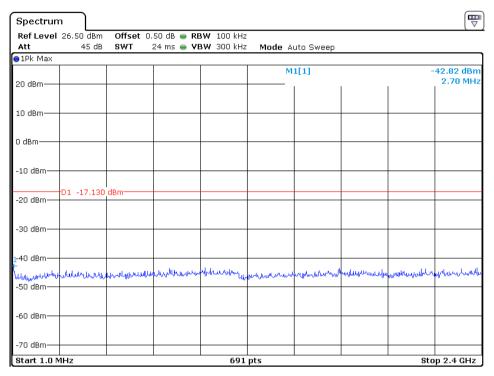


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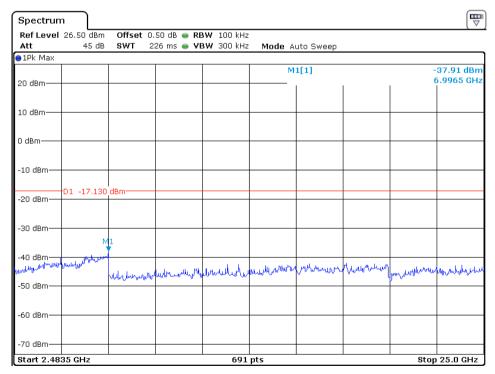
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Channel 11 (2462MHz) Reference Level: 2.87dBm



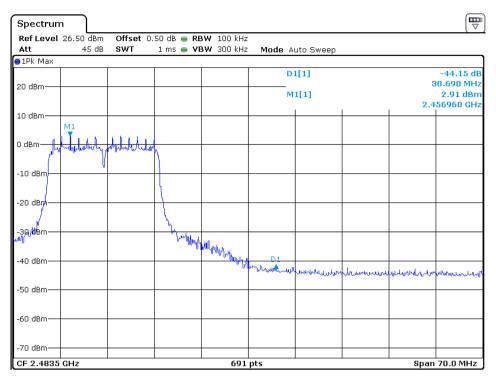
Date:18.JUL.2020 16:04:46



Date: 18.JUL.2020 16:05:01

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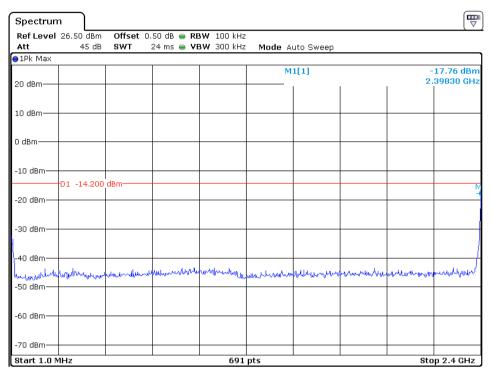


Date:18.JUL.2020 16:05:23

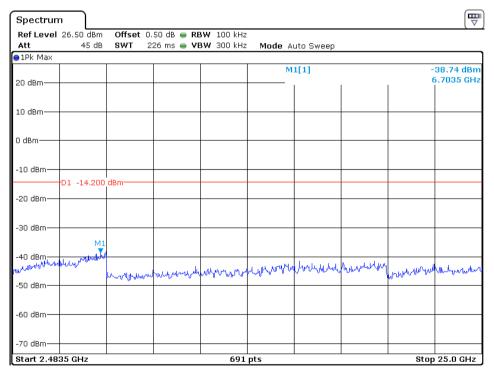


802.11n-HT20

Channel 01 (2412MHz) Reference Level: 5.80dBm



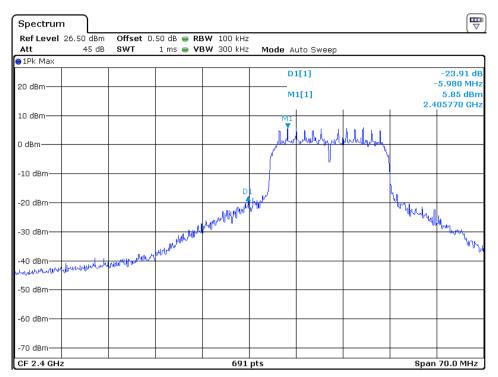
Date:18.JUL.2020 15:30:41



Date: 18.JUL.2020 15:30:55

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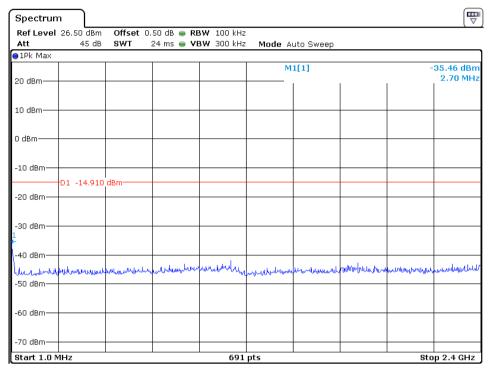




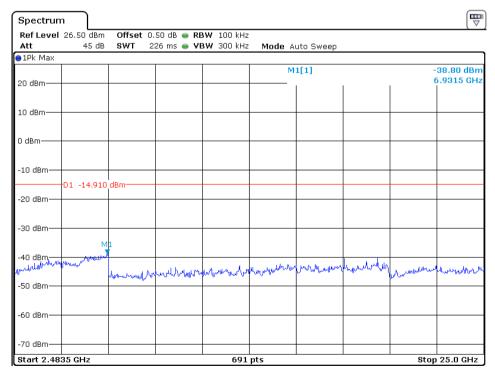
Date:18.JUL.2020 15:31:14



Channel 06 (2437MHz) Reference Level: 5.09dBm



Date:18.JUL.2020 15:24:28

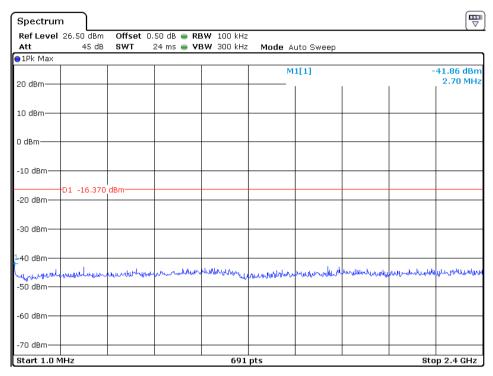


Date:18.JUL.2020 15:24:47

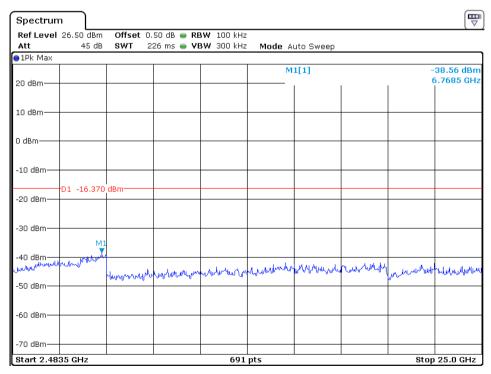
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Channel 11 (2462MHz) Reference Level: 3.63dBm



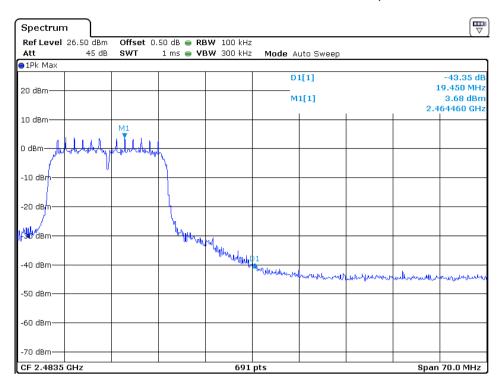
Date:18.JUL.2020 15:21:06



Date:18.JUL.2020 15:21:26

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Date:18.JUL.2020 15:21:57



Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 18, 2020 Model: iUVC1

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

Intertek Report No.: 200630046SZN-001

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

[×] Not required, since all emissions are more than 20dB below fundamental[] See attached data sheet

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b) (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

Intertek Report No.: 200630046SZN-001

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

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TEST REPORT Intertek Report No.: 200630046SZN-001

Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD

Where $FS = Field Strength in dB\mu V/m$

RA = Receiver Amplitude (including preamplifier) in dBμV

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 42 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = $62.0 \text{ dB}\mu\text{V}$ AF = 7.4 dBCF = 1.6 dB

AG = 29.0 dB

... _____

PD = 0 dB

 $FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \, dB\mu V/m$

Level in mV/m = Common Antilogarithm [(42 dB μ V/m)/20] = 125.9 μ V/m

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission at 54.585680MHz is passed by 1.6dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf. Simultaneous transmission was considered during the test.

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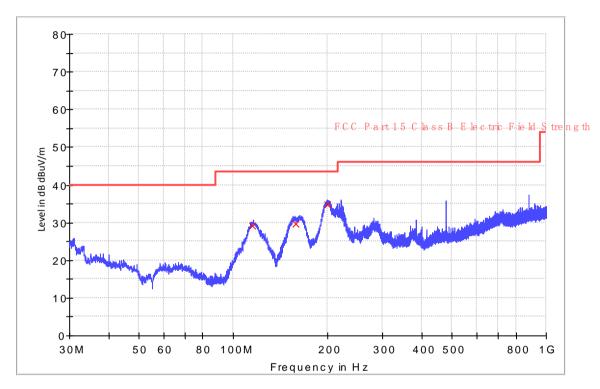
Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Simultaneous transmission

ANT Polarity: Horizontal

FCC Part 15



| Frequency (MHz) | QuasiPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Polarization | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBuV/m) |
|--------------------|-----------------------|--------------------|--------------------|--------------|---------------|----------------------|-------------------------|
| 115.036667 | 29.0 | 1000.0 | 120.000 | Н | 9.5 | 14.5 | 43.5 |
| 158.880667 | 29.8 | 1000.0 | 120.000 | Н | 11.4 | 13.7 | 43.5 |
| 200.600000 | 34.7 | 1000.0 | 120.000 | Н | 12.7 | 8.8 | 43.5 |

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dB μ V/m)= Corr. (dB/m)+ Read Level (dB μ V)
- 3. Margin (dB) = Limit Line(dB μ V/m) Level (dB μ V/m)

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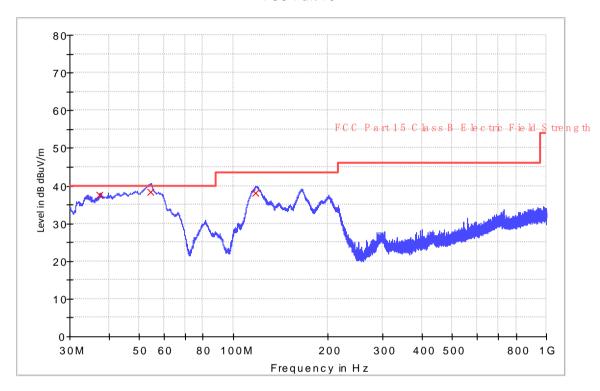
Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Simultaneous transmission

ANT Polarity: Vertical

FCC Part 15



| | quency MHz) | QuasiPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Polarization | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBuV/m) |
|------|----------------|-----------------------|-----------------------|--------------------|--------------|---------------|-------------------------|-------------------------|
| 37.4 | 440613 | 37.6 | 1000.0 | 120.000 | V | 14.8 | 2.4 | 40.0 |
| 54.5 | 585680 | 38.4 | 1000.0 | 120.000 | V | 8.1 | 1.6 | 40.0 |
| 117. | 558667 | 38.0 | 1000.0 | 120.000 | V | 9.7 | 5.5 | 43.5 |

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Limit Line(dB μ V/m) Level (dB μ V/m)

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Transmitting (802.11b-Channel 01)

Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBµV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------|----------------|
| Horizontal | *4824.000 | 64.8 | 36.8 | 33.5 | 61.5 | 74.0 | -12.5 |
| Horizontal | *2390.000 | 44.4 | 36.4 | 29.1 | 37.1 | 74.0 | -36.9 |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------------|----------------|
| Horizontal | *4824.000 | 50.9 | 36.8 | 33.5 | 47.6 | 54.0 | -6.4 |
| Horizontal | *2390.000 | 37.6 | 36.4 | 29.1 | 30.3 | 54.0 | -23.7 |

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Transmitting (802.11b-Channel 06)

Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBµV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------|----------------|
| Horizontal | *4874.000 | 63.4 | 36.7 | 33.4 | 60.1 | 74.0 | -13.9 |
| Horizontal | *7311.000 | 51.1 | 36.6 | 35.8 | 50.3 | 74.0 | -23.7 |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------------|----------------|
| Horizontal | *4874.000 | 48.8 | 36.7 | 33.4 | 45.5 | 54.0 | -8.5 |
| Horizontal | *7311.000 | 41.4 | 36.6 | 35.8 | 40.6 | 54.0 | -13.4 |

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Transmitting (802.11b-Channel 11)

Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBµV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------|----------------|
| Horizontal | *4924.000 | 61.2 | 36.8 | 33.3 | 57.7 | 74.0 | -16.3 |
| Horizontal | *7386.000 | 56.0 | 36.5 | 29.3 | 48.8 | 74.0 | -25.2 |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------------|----------------|
| Horizontal | *4924.000 | 51.8 | 36.8 | 33.3 | 48.3 | 54.0 | -5.7 |
| Horizontal | *7386.000 | 47.5 | 36.5 | 29.3 | 40.3 | 54.0 | -13.7 |

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Transmitting (802.11g-Channel 01)

Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------|----------------|
| Horizontal | *4824.000 | 53.2 | 36.8 | 33.5 | 49.9 | 74.0 | -24.1 |
| Horizontal | *2390.000 | 42.9 | 36.4 | 29.1 | 35.6 | 74.0 | -38.4 |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------------|----------------|
| Horizontal | *4824.000 | 40.0 | 36.8 | 33.5 | 36.7 | 54.0 | -17.3 |
| Horizontal | *2390.000 | 37.5 | 36.4 | 29.1 | 30.2 | 54.0 | -23.8 |

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Transmitting (802.11g-Channel 06)

Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBµV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------|----------------|
| Horizontal | *4874.000 | 49.8 | 36.7 | 33.4 | 46.5 | 74.0 | -27.5 |
| Horizontal | *7311.000 | 43.8 | 36.6 | 35.8 | 43.0 | 74.0 | -31.0 |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------------|----------------|
| Horizontal | *4874.000 | 38.5 | 36.7 | 33.4 | 35.2 | 54.0 | -18.8 |
| Horizontal | *7311.000 | 34.6 | 36.6 | 35.8 | 33.8 | 54.0 | -20.2 |

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Transmitting (802.11g-Channel 11)

Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------|----------------|
| Horizontal | *4924.000 | 53.8 | 36.8 | 33.3 | 50.3 | 74.0 | -23.7 |
| Horizontal | *7386.000 | 57.9 | 36.5 | 29.3 | 50.7 | 74.0 | -23.3 |

| Polarization | Frequency (MHz) | Reading (dΒμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------------|----------------|
| Horizontal | *4924.000 | 43.1 | 36.8 | 33.3 | 39.6 | 54.0 | -14.4 |
| Horizontal | *7386.000 | 49.2 | 36.5 | 29.3 | 42.0 | 54.0 | -12.0 |

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Transmitting (802.11n20-Channel 01)

Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------|----------------|
| Horizontal | *4824.000 | 53.4 | 36.8 | 33.5 | 50.1 | 74.0 | -23.9 |
| Horizontal | *2390.000 | 44.5 | 36.4 | 29.1 | 37.2 | 74.0 | -36.8 |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------------|----------------|
| Horizontal | *4824.000 | 42.2 | 36.8 | 33.5 | 38.9 | 54.0 | -15.1 |
| Horizontal | *2390.000 | 38.0 | 36.4 | 29.1 | 30.7 | 54.0 | -23.3 |

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Transmitting (802.11n20-Channel 06)

Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBµV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------|----------------|
| Horizontal | *4874.000 | 51.9 | 36.7 | 33.4 | 48.6 | 74.0 | -25.4 |
| Horizontal | *7311.000 | 48.0 | 36.6 | 35.8 | 47.2 | 74.0 | -26.8 |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------------|----------------|
| Horizontal | *4874.000 | 40.8 | 36.7 | 33.4 | 37.5 | 54.0 | -16.5 |
| Horizontal | *7311.000 | 36.6 | 36.6 | 35.8 | 35.8 | 54.0 | -18.2 |

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020 Model: iUVC1

Worst Case Operating Mode: Transmitting (802.11n20-Channel 11)

Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------|----------------|
| Horizontal | *4924.000 | 57.2 | 36.8 | 33.3 | 53.7 | 74.0 | -20.3 |
| Horizontal | *7386.000 | 60.5 | 36.5 | 29.3 | 53.3 | 74.0 | -20.7 |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBµV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|---------------------------------------|----------------|
| Horizontal | *4924.000 | 42.2 | 36.8 | 33.3 | 38.7 | 54.0 | -15.3 |
| Horizontal | *7386.000 | 44.7 | 36.5 | 29.3 | 37.5 | 54.0 | -16.5 |

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020

Model: iUVC1

4.9 Conducted Emission

Worst Case Conducted Emission (802.11b-Channel 01) at 0.558MHz is passed by 6.7dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: conducted photos.pdf.

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020

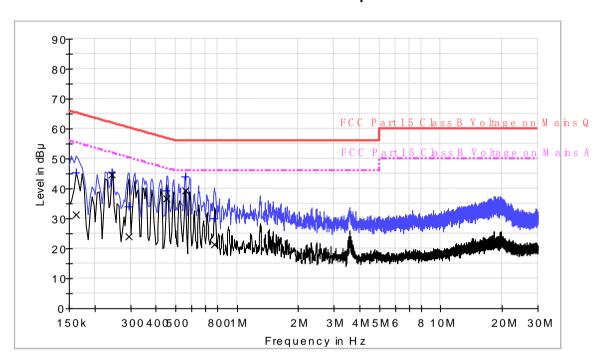
Model: iUVC1

Worst Case Operating Mode: Simultaneous transmission

Phase: Live

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

| | _ | • | | | | |
|-----------|-----------|-----------|------|-------|--------|--------|
| Frequency | QuasiPeak | Bandwidth | Line | Corr. | Margin | Limit |
| (MHz) | (dBuV) | (kHz) | | (dB) | (dB) | (dBuV) |
| 0.162000 | 45.2 | 9.000 | L1 | 9.7 | 20.2 | 65.4 |
| 0.242000 | 45.2 | 9.000 | L1 | 9.7 | 16.8 | 62.0 |
| 0.294000 | 33.9 | 9.000 | L1 | 9.7 | 26.5 | 60.4 |
| 0.454000 | 39.3 | 9.000 | L1 | 9.7 | 17.5 | 56.8 |
| 0.558000 | 43.9 | 9.000 | L1 | 9.7 | 12.1 | 56.0 |
| 0.774000 | 30.0 | 9.000 | L1 | 9.7 | 26.0 | 56.0 |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|--------------------|-------------------|--------------------|------|---------------|----------------|-----------------|
| 0.162000 | 31.3 | 9.000 | L1 | 9.7 | 24.1 | 55.4 |
| 0.242000 | 44.7 | 9.000 | L1 | 9.7 | 7.3 | 52.0 |
| 0.294000 | 23.9 | 9.000 | L1 | 9.7 | 26.5 | 50.4 |
| 0.454000 | 36.6 | 9.000 | L1 | 9.7 | 10.2 | 46.8 |
| 0.558000 | 39.3 | 9.000 | L1 | 9.7 | 6.7 | 46.0 |
| 0.774000 | 21.2 | 9.000 | L1 | 9.7 | 24.8 | 46.0 |

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020

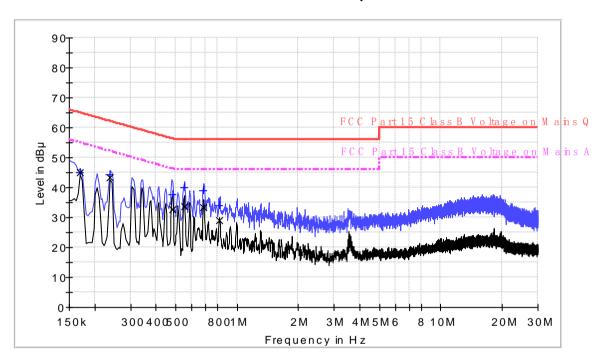
Model: iUVC1

Worst Case Operating Mode: Simultaneous transmission

Phase: Neutral

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|--------------------|---------------------|--------------------|------|---------------|----------------|-----------------|
| 0.170000 | 45.1 | 9.000 | N | 9.7 | 19.9 | 65.0 |
| 0.238000 | 44.4 | 9.000 | N | 9.7 | 17.8 | 62.2 |
| 0.482000 | 37.8 | 9.000 | N | 9.7 | 18.5 | 56.3 |
| 0.550000 | 39.8 | 9.000 | N | 9.7 | 16.2 | 56.0 |
| 0.686000 | 39.0 | 9.000 | N | 9.7 | 17.0 | 56.0 |
| 0.818000 | 34.1 | 9.000 | N | 9.7 | 21.9 | 56.0 |

Limit and Margin AV

| Frequency | Average | Bandwidth | Line | Corr. | Margin | Limit |
|-----------|---------|-----------|------|-------|--------|--------|
| (MHz) | (dBuV) | (kHz) | | (dB) | (dB) | (dBuV) |
| 0.170000 | 44.9 | 9.000 | N | 9.7 | 10.1 | 55.0 |
| 0.238000 | 43.3 | 9.000 | N | 9.7 | 8.9 | 52.2 |
| 0.482000 | 32.5 | 9.000 | N | 9.7 | 13.8 | 46.3 |
| 0.550000 | 33.8 | 9.000 | N | 9.7 | 12.2 | 46.0 |
| 0.686000 | 33.3 | 9.000 | N | 9.7 | 12.7 | 46.0 |
| 0.818000 | 29.1 | 9.000 | N | 9.7 | 16.9 | 46.0 |

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| Applicant: RONGYEJIA ELECTRONICS LTD |
|--------------------------------------|
| Date of Test: July 28, 2020 |

Model: iUVC1

| 4.10 | Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109 |
|------|---|
| [] | Not required - No digital part |
| [] | Test results are attached |
| [x] | Included in the separated report. |

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Applicant: RONGYEJIA ELECTRONICS LTD

Date of Test: July 28, 2020

Model: iUVC1

4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

| | See attached spectrum analyzer chart (s) for Transmitter timing |
|---|---|
| | See Transmitter timing diagram provided by manufacturer |
| Х | Not applicable, duty cycle was not used. |

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5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

10.0 <u>Discussion of Pulse Desensitization</u>

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

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11.0 Test Equipment List

| Equipment No. | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due Date |
|----------------------|---------------------|-----------------|--------------|------------|------------|------------|
| SZ182-02 | RF Power Meter | Anritsu | ML2496A | 1302005 | 2020-05-27 | 2021-05-27 |
| SZ182-02-01 | Power Sensor | Anritsu | MA2411B | 1207429 | 2020-05-27 | 2021-05-27 |
| SZ061-12 | BiConiLog Antenna | ETS | 3142E | 00166158 | 2018-09-14 | 2020-09-14 |
| SZ185-01 | EMI Receiver | R&S | ESCI | 100547 | 2019-12-24 | 2020-12-24 |
| SZ061-08 | Horn Antenna | ETS | 3115 | 00092346 | 2019-09-07 | 2021-09-07 |
| SZ061-06 | Active Loop Antenna | Electro-Metrics | EM-6876 | 217 | 2019-05-24 | 2021-05-24 |
| SZ056-03 | Spectrum Analyzer | R&S | FSP 30 | 101148 | 2020-05-27 | 2021-05-27 |
| SZ056-06 | Signal Analyzer | R&S | FSV 40 | 101101 | 2020-05-27 | 2021-05-27 |
| SZ181-04 | Preamplifier | Agilent | 8449B | 3008A02474 | 2020-05-27 | 2021-05-27 |
| SZ188-01 | Anechoic Chamber | ETS | RFD-F/A-100 | 4102 | 2018-12-15 | 2021-12-15 |
| SZ062-02 | RF Cable | RADIALL | RG 213U | 1 | 2020-06-12 | 2020-12-12 |
| SZ062-05 | RF Cable | RADIALL | 0.04-26.5GHz | - | 2020-02-26 | 2020-08-26 |
| SZ062-12 | RF Cable | RADIALL | 0.04-26.5GHz | - | 2020-02-26 | 2020-08-26 |
| SZ067-04 | Notch Filter | Micro-Tronics | BRM50702-02 | 1 | 2020-05-27 | 2021-05-27 |
| SZ185-02 | EMI Test Receiver | R&S | ESCI | 100692 | 2019-10-29 | 2020-10-29 |
| SZ187-01 | Two-Line V-Network | R&S | ENV216 | 100072 | 2019-10-29 | 2020-10-29 |
| SZ188-03 | Shielding Room | ETS | RFD-100 | 4100 | 2020-01-07 | 2023-01-07 |

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