

**MEASUREMENT REPORT**
FCC PART 15.231**Applicant Name:**G.G. Telecom
120 J-Aurèle-Roux
Victoriaville, QC G6T0N5
Canada**Date of Testing:**

10/1 - 10/8/2014

Test Site/Location:

PCTEST Lab. Columbia, MD, USA

Test Report Serial No.:

0Y1409261963.EEX

FCC ID: EEX-MINI-LIVE**APPLICANT:** G.G. Telecom**Application Type:**

Certification

Model(s):

Mini-LIVE-4GV

EUT Type:

Surveillance Camera

Frequency Range:

433MHz

FCC Classification:

Part 15 Security/Remote Control Transmitter (DSC)

FCC Rule Part(s):

Part 15 Subpart C (15.231)

Test Procedure(s):

ANSI C63.10-2009

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2009. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

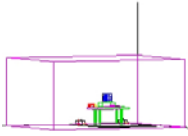

Randy Ortanez
President

FCC ID: EEX-MINI-LIVE		FCC Pt. 15.231 TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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T A B L E O F C O N T E N T S

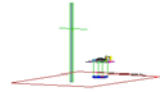
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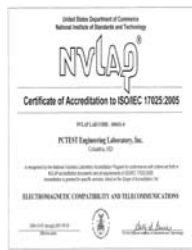


§ 2.1033 General Information

APPLICANT: G.G. Telecom
APPLICANT ADDRESS: 120 J-Aurèle-Roux
 Victoriaville, QC G6T0N5, Canada
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 7185 Oakland Mills Road, Columbia, MD 21046 USA
FCC RULE PART(S): Part 15 Subpart C (15.231)
MODEL: Mini-LIVE-4GV
FCC ID: EEX-MINI-LIVE
Test Device Serial No.: FCC #3 ☐ Production ☒ Pre-Production ☐ Engineering
FCC CLASSIFICATION: Part 15 Security/Remote Control Transmitter (DSC)
DATE(S) OF TEST: 10/1 - 10/8/2014
TEST REPORT S/N: 0Y1409261963.EEX

Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.



- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451B-1).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (2451B-1) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2 PCTEST Test Location

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Intern't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (See **Figure 1-1**).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The site coordinates are 39° 10'23" N latitude and 76° 49'50" W longitude. The facility is 0.4 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on February 15, 2012.



Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **G.G. Telecom Surveillance Camera FCC ID: EEX-MINI-LIVE**. The test data contained in this report pertains only to the emissions due to the EUT's 433MHz transmitter.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO (BC0, BC1), 433MHz Transmitter

2.3 Test Configuration

The G.G. Telecom Surveillance Camera FCC ID: EEX-MINI-LIVE was tested per the guidance of ANSI C63.10-2009. ANSI C63.10-2009 was used to reference the appropriate EUT setup for radiated spurious emissions testing. See Section 3.2 for radiated emissions test setups.

2.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

2.5 Labeling Requirements

Per 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

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3.0 DESCRIPTION OF TEST

3.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2009) was used in the measurement of the **G.G. Telecom Surveillance Camera**
FCC ID: EEX-MINI-LIVE.

Deviation from measurement procedure.....None

3.2 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Clause 5, Figure 5.7 of ANSI C63.4-2009. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An ETS Lindgren Model 2188 raised turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 78cm high PVC support structure is placed on top of the turntable. A ¾" (~1.9cm) sheet of high density polyethylene is used as the table top and is placed on top of the PVC supports to bring the total height of the table to 80cm.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. For the EUT positioning, "H" is defined with the EUT lying flat on the test surface, "H2" is defined with the EUT standing up on its side, and "V" is defined with the EUT standing upright.

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the G.G. Telecom Surveillance Camera are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The **G.G. Telecom Surveillance Camera FCC ID: EEX-MINI-LIVE** unit complies with the requirement of §15.203.

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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	RE1	Radiated Emissions Cable Set (UHF/EHF)	5/29/2014	Annual	5/29/2015	N/A
Agilent	8447D	Broadband Amplifier	5/30/2014	Annual	5/30/2015	2443A01900
Agilent	N9020A	MXA Signal Analyzer	10/29/2013	Annual	10/29/2014	US46470561
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	6/26/2013	Biennial	6/26/2015	121034
Emco	3115	Horn Antenna (1-18GHz)	1/30/2014	Biennial	1/30/2016	9704-5182
K & L	13SH10-1000/U1000	N Type High Pass Filter	5/22/2014	Annual	5/22/2015	2
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	3/5/2014	Annual	3/5/2015	100071
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	1/27/2014	Annual	1/27/2015	100342
Seekonk	NC-100	Torque Wrench 5/16", 8" lbs	3/18/2014	Biennial	3/18/2016	N/A
Seekonk	NC-100	Torque Wrench (8" lb)	3/5/2012	Biennial	3/5/2014	N/A
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/28/2014	Biennial	1/28/2016	A051107
VWR	62344-734	Thermometer with Clock	2/20/2014	Biennial	2/20/2016	140140336

Table 5-1. Annual Test Equipment Calibration Schedule

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6.0 TEST RESULTS

6.1 Summary

Company Name: G.G. Telecom
 FCC ID: EEX-MINI-LIVE
 FCC Classification: Part 15 Security/Remote Control Transmitter (DSC)
 Frequencies Examined: 434MHz

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (Tx)					
2.1049, 15.231(c)	Occupied Bandwidth	< 0.25% of center frequency	CONDUCTED	PASS	Section 6.2
15.231(a)(2)	Transmission Duration	Cease transmission within 5s after activation		PASS	Section 6.3
15.231(b)	Fundamental Field Strength Level	< 11,000 $\mu\text{V/m}$	RADIATED	PASS	Section 6.4
15.231(b)	Harmonic Field Strength Level	< 1,100 $\mu\text{V/m}$		PASS	Section 6.5
15.205, 15.209, 15.231(b)(3)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	< 15.209 limits (RSS-210 table 3 limits) or 50dB below the level of the fundamental		PASS	Section 6.5

Table 6-1. Summary of Test Results

Notes:

- 1) All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) Transmitter operation ceases completely within 5 seconds of activation and, thus, per 15.231(a)(3), the device does not transmit periodically.

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6.2 Occupied Bandwidth Measurement

§2.1049 §15.231(c)

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The spectrum analyzer's "occupied bandwidth" measurement function was used to record the occupied bandwidth.

The bandwidth of the emission shall be no wider than 0.25% (1.085MHz) of the center frequency for devices operating above 70MHz and below 900MHz.

Frequency	Occupied Bandwidth
434MHz	17.426kHz

Table 6-2. Occupied Bandwidth Measurement

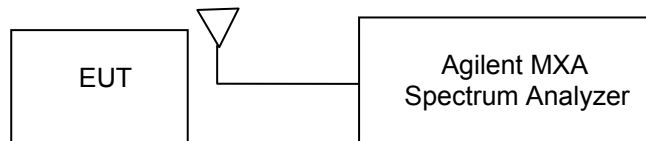
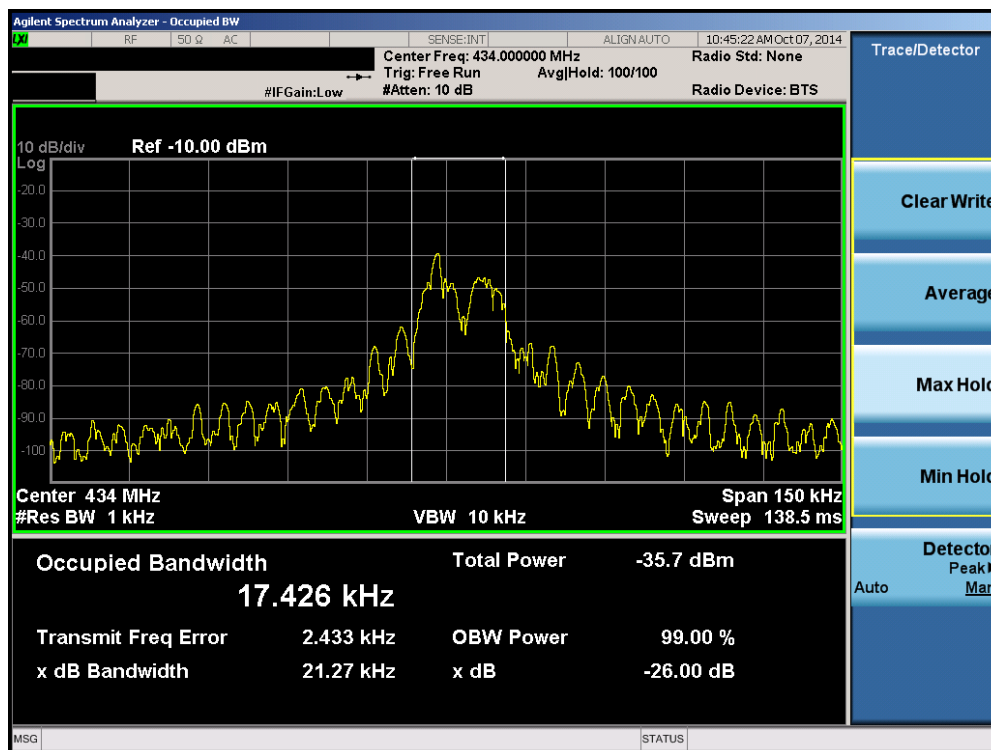


Figure 6-1. Test Instrument & Measurement Setup



Plot 6-1. Occupied Bandwidth Plot (434MHz Band)

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6.3 Transmission Duration §15.231(a)(2)

The transmission duration is the amount of time the transmitter is on before it is deactivated. This was measured with the spectrum analyzer set to the desired center frequency in zero-span mode.

A transmitter activated automatically shall cease transmission within 5 seconds after activation.

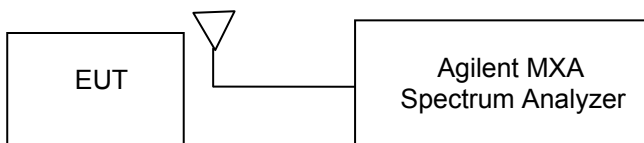
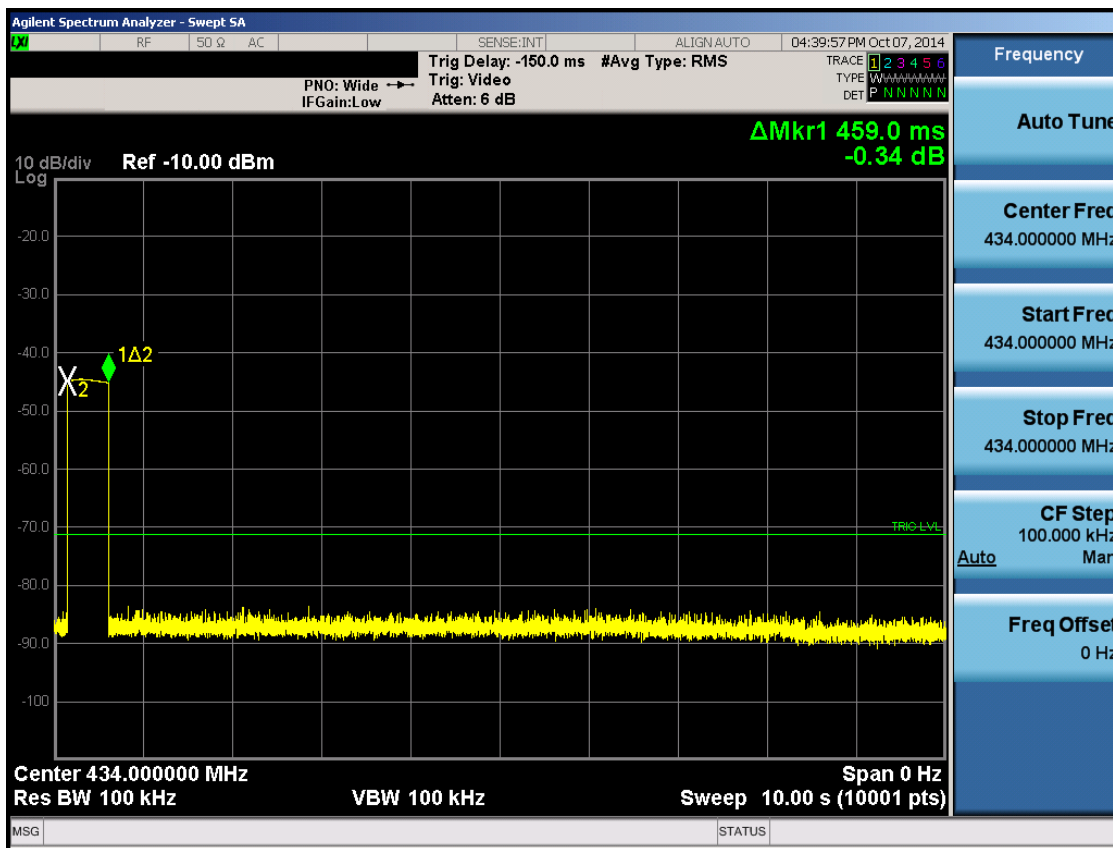


Figure 6-2. Test Instrument & Measurement Setup



Plot 6-2. Transmission Duration Plot

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6.4 Fundamental Field Strength Level Measurement

§15.231(b)

Measurement is made while the EUT is operating in transmission mode. The field strength shown below was measured using a spectrum analyzer. Quasi-peak field strength measurements are performed in the analyzers' swept spectrum mode using a CISPR quasi-peak detector with RBW = 120kHz and VBW ≥ RBW.

The maximum permissible quasi-peak fundamental field strength level, based on operation at 434MHz, per the table shown in 15.231(b), is 11,000 μ V/m (80.83dB μ V/m).

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB]	Field Strength [dB μ V/m]	Corrected Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
434.00	-50.17	Quasi-Peak	V	H2	18.06	74.89	74.89	80.83	-5.94

Table 6-3. Field Strength Measurements

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6.5 Radiated Spurious Emission Measurements

§15.205 §15.209 §15.231(b)(3)

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 6-4. Radiated Limits for Emissions in Restricted Bands

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
40.66 – 40.70 MHz	2,250	3
70 – 130 MHz	1,250	3
130 – 174 MHz	¹ 1,250 to 3,750	3
174 – 260 MHz	3,750	3
260 – 470 MHz	¹ 3,750 to 12,500	3
Above 470.0 MHz	12,500	3

¹Linear interpolations.

Table 6-5. Additional Radiated Limits for Emissions for Operation under 15.231

Sample Calculation

- o Field Strength Level [$\text{dB}\mu\text{V/m}$] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- o AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- o Margin [dB] = Field Strength Level [$\text{dB}\mu\text{V/m}$] – Limit [$\text{dB}\mu\text{V/m}$]

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Test Notes

1. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. There were no non-harmonic emissions detected whose levels were within 20dB of the applicable limits so only harmonic emissions data is shown in this section.
2. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-4.
3. All emissions not lying in restricted bands were measured to the limits shown in Table 6-4 or Table 6-5, applying the tighter limit.
4. The harmonic field strength limit for 434MHz, per 15.231(b), is 1,100µV/m.
5. Peak measurements > 1GHz made with peak detector, using RBW = 1MHz and VBW = 3MHz.
6. Average measurements > 1GHz made with RMS detector, using RBW = 1MHz and VBW = 3MHz.
7. Quasi-peak measurements < 1GHz using RBW = 120kHz and VBW ≥ RBW.
8. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
9. This unit was tested with a separate battery pack provided by the manufacturer.

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Radiated Spurious Emission Measurements

§15.205 §15.209 §15.231(b)(3)

Measurement Distance: 3 Meters
 Operating Frequency: 434MHz

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
868.00	-75.25	Quasi-Peak	V	H2	23.89	55.64	60.83	-5.19
1302.00	-86.48	Average	V	H2	28.74	49.25	53.98	-4.72
1302.00	-85.37	Peak	V	H2	28.74	50.36	73.98	-23.61
1736.00	-86.25	Peak	V	H2	29.51	50.26	61.94	-11.68
2170.00	-88.19	Peak	V	H2	31.22	50.03	61.94	-11.91
2604.00	-92.51	Peak	V	H2	32.77	47.26	61.94	-14.68
3038.00	-86.62	Peak	V	H2	34.39	54.77	61.94	-7.17
3472.00	-98.46	Peak	V	H2	35.69	44.23	61.94	-17.71
3906.00	-107.89	Average	V	H2	37.53	36.64	53.98	-17.34
3906.00	-100.13	Peak	V	H2	37.53	44.40	73.98	-29.58
4340.00	-108.58	Average	V	H2	37.49	35.91	53.98	-18.07
4340.00	-99.16	Peak	V	H2	37.49	45.33	73.98	-28.65

Table 6-6. Radiated Measurements (Harmonics)

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Measurement Distance: 3 Meters
 Operating Frequency: 434MHz

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
80.98	-90.52	Quasi-Peak	V	H2	8.50	24.98	40.00	-15.02
243.00	-82.08	Quasi-Peak	V	H2	13.36	38.28	46.02	-7.74
459.04	-84.89	Quasi-Peak	V	H2	18.50	40.61	46.02	-5.41
648.69	-87.66	Quasi-Peak	V	H2	21.40	40.74	46.02	-5.28
755.95	-87.49	Quasi-Peak	V	H2	22.64	42.15	46.02	-3.87
810.35	-87.09	Quasi-Peak	V	H2	23.43	43.34	46.02	-2.68

Table 6-7. Radiated Measurements (Non-Harmonics)

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7.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **G.G. Telecom Surveillance Camera** **FCC ID: EEX-MINI-LIVE** is in compliance with Part 15 Subpart C (15.231) of the FCC Rules.

FCC ID: EEX-MINI-LIVE		FCC Pt. 15.231 TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1409261963.EEX	Test Dates: 10/1 - 10/8/2014	EUT Type: Surveillance Camera		Page 17 of 17