



Shanghai Qiangling Electronic Co Ltd
Remote Controlled LED Lamp Model #: CP3817LC

FCC 15.247:2014
FCC 15.207:2014

Report #: GLBC0139.1



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

CERTIFICATE OF TEST

Last Date of Test: June 27, 2014
Shanghai Qiangling Electronic Co Ltd
Remote Controlled LED Lamp Model #: CP3817LC

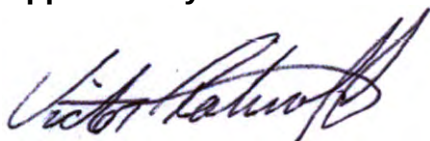
Emissions

Test Description	Specification	Test Method	Pass/Fail
Duty Cycle	FCC 15.247:2014	ANSI C63.10:2009	Pass
Occupied Bandwidth	FCC 15.247:2014	ANSI C63.10:2009	Pass
Output Power	FCC 15.247:2014	ANSI C63.10:2009	Pass
Power Spectral Density	FCC 15.247:2014	ANSI C63.10:2009	Pass
Band Edge Compliance	FCC 15.247:2014	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.247:2014	ANSI C63.10:2009	Pass
Powerline Conducted Emissions	FCC 15.207:2014	ANSI C63.10:2009	Pass
Receiver Spurious Emission	FCC 15.207:2014	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:



Victor Ratnoff, Operations Manager



NVLAP Lab Code: 200676-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

REVISION HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

KCC / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Hong Kong

OFTA – Recognized by OFTA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

Russia

GOST – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>

Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

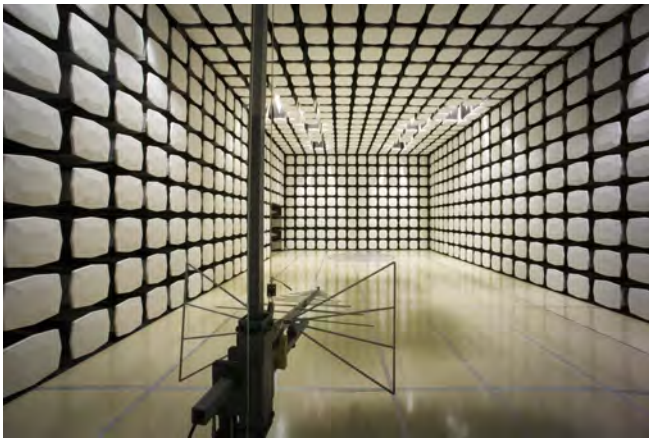
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-1 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	4.00	-4.00
AC Powerline Conducted Emissions (dB)	2.70	-2.70



Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs NC01-05, SU02, SU07 19201 120 th Ave. NE Bothell, WA 98011 (425) 984-6600
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834F-1
NVLAP				
NVLAP Lab Code: 200630-0	NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200629-0



Client and Equipment Under Test (EUT) Information

Company Name:	Shanghai Qiangling Electronic Co Ltd
Address:	139 WANG DONG ROAD SOUTH
City, State, Zip:	SI JING SONG JIANG SHANGHAI, CHINA 201601
Test Requested By:	Leon Kogan
Model:	Remote Controlled LED Lamp Model #: CP3817LC
First Date of Test:	June 26, 2014
Last Date of Test:	June 27, 2014
Receipt Date of Samples:	June 26, 2014
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
Remote Controlled LED Lamp with a 2.4GHz radio.
Testing Objective:
To demonstrate compliance to FCC 15.247 requirements.

Configuration GLBC0139- 1

Software/Firmware Running during test	
Description	Version
Bulb Evaluation Tool	1.2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Remote Controlled LED Lamp	Shanghai Qiangling Electronic Co Ltd	CP3817LC	1047-19

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
2.4GHz Antenna	Generic	None	None
Light Bulb Fixture	None	None	None

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	Toshiba	PSAA8U-02200U	46170208Q
Laptop PS	Toshiba	SADP-75PB A	PA3469U-1ACA
Evaluation Kit	NXP	JN5148-EK010	None
Evaluation Kit PS	Ktec	KSAS006050100VUD	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Cable	No	1.5m	No	AC Mains	Remote Controlled LED Lamp
Antenna Cable	No	4.5m	No	Antenna	Evaluation Kit
USB Cable	Yes	1.8m	No	Laptop	Evaluation Kit
DC Cable	No	1.5m	No	AC Mains	Evaluation Kit
AC Cable	No	1.8m	No	AC Mains	Laptop PS
DC Cable	No	1.5m	No	Laptop	Laptop PS
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	6/26/2014	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	6/26/2014	Receiver Spurious Emission	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	6/27/2014	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	6/27/2014	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	6/27/2014	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	6/27/2014	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
7	6/27/2014	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
8	6/27/2014	Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

DUTY CYCLE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Horn	EMCO	3115	AHB	3/10/2014	24
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	6/17/2014	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24

TEST DESCRIPTION

For software controlled or pre-programmed devices, the manufacturer shall declare the duty cycle class or classes for the equipment under test. For manually operated or event dependant devices, with or without software controlled functions, the manufacturer shall declare whether the device once triggered, follows a pre-programmed cycle, or whether the transmission is constant until the trigger is released or manually reset. The manufacturer shall also give a description of the application for the device and include a typical usage pattern. The typical usage pattern as declared by the manufacturer shall be used to determine the duty cycle and hence the duty class.

Where an acknowledgement is required, the additional transmitter on-time shall be included and declared by the manufacturer.

To derive average emission measurements, a duty cycle correction factor per 15.35(c) was utilized:

Duty Cycle = On time/100 milliseconds (or the period, whichever is less)

Where "On time" = $N_1L_1 + N_2L_2 + \dots$

Where N_1 is the number of type 1 pulses, L_1 is length of type 1 pulses, N_2 is the number of type 2 pulses, L_2 is the length of type 2 pulses, etc.

Therefore, Duty Cycle = $(N_1L_1 + N_2L_2 + \dots)/100\text{ms}$. Where T is the period of the pulse train.

The measured value for the EUT's low channel is as follows:

Period = 8.18 mSec

Pulsewidth of Type 1 Pulse = 0.1512 mSec

Number of Type 1 Pulses = 5

Duty Cycle = $20 \cdot \log((0.1512 \cdot 5)/8.18\text{ms}) = 20.68\text{dB}$

The measured value for the EUT's mid channel is as follows:

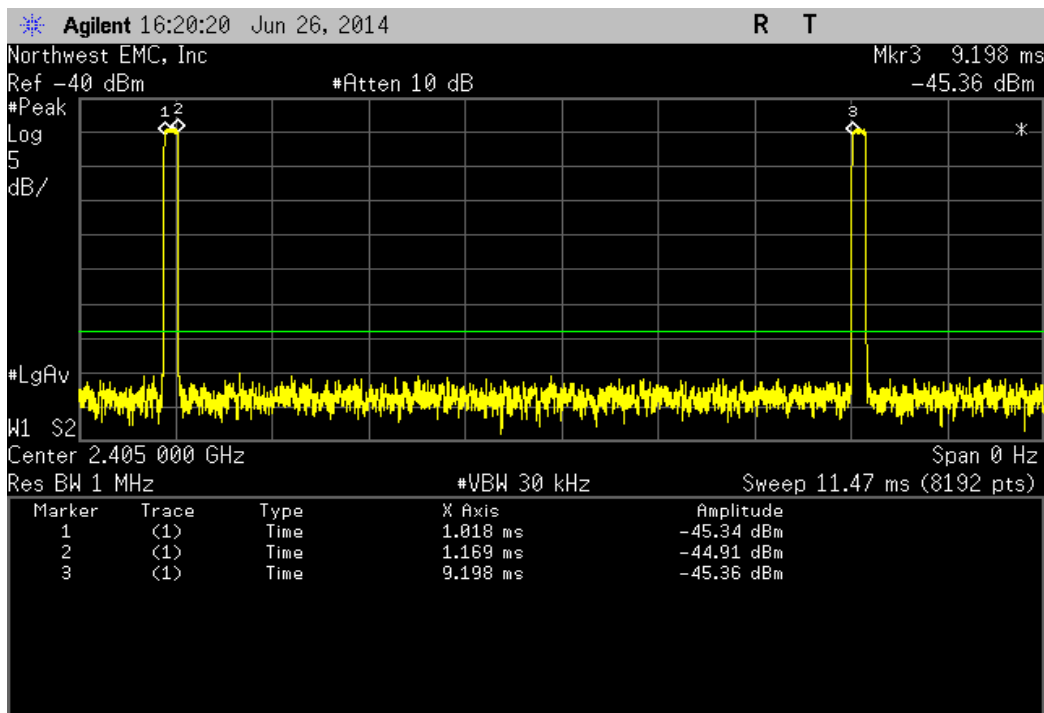
Duty Cycle = $20 \cdot \log((0.147 \cdot 5)/8.179\text{ms}) = 20.93\text{dB}$

The measured value for the EUT's high channel is as follows:

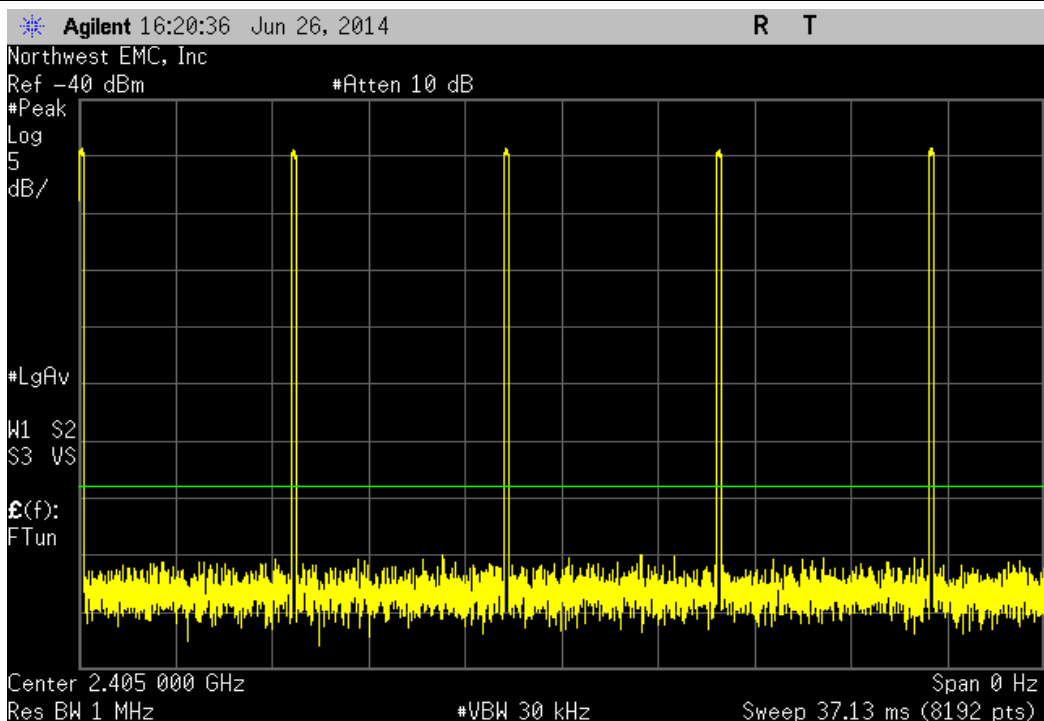
Duty Cycle = $20 \cdot \log((0.1512 \cdot 5)/8.182\text{ms}) = 20.69\text{dB}$

Signature _____

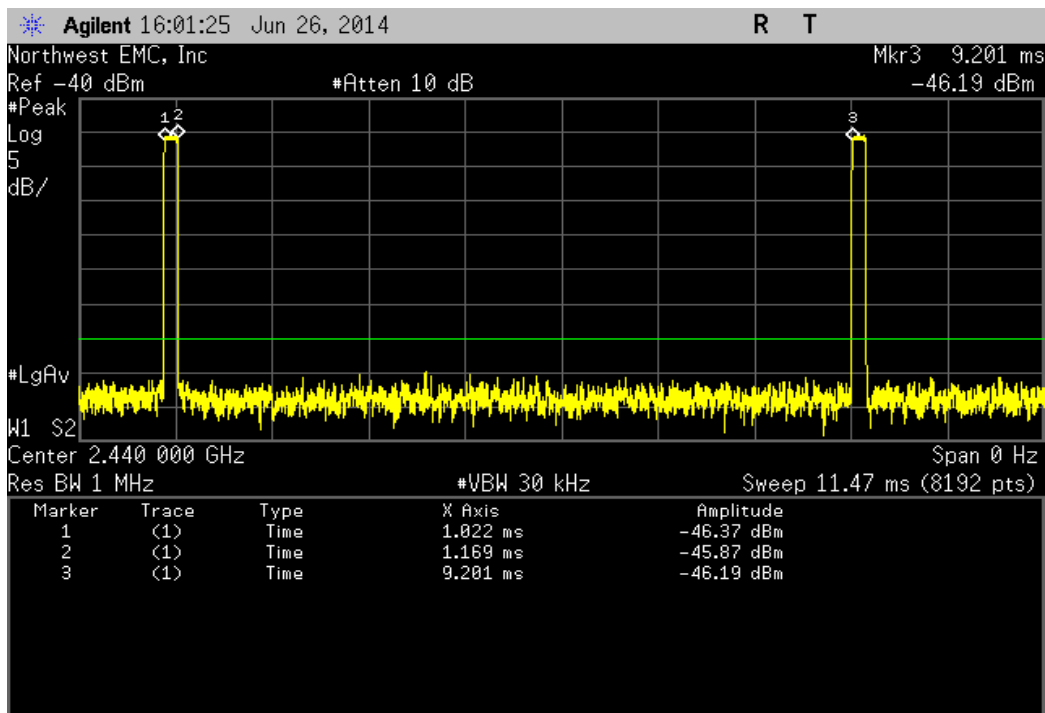
2400 MHz - 2483.5 MHz Band, Low Channel 11, 2405 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Duty Cycle Correction Factor	
151.2 μ S	8.18 mS	1	1.8	N/A	-20.68	



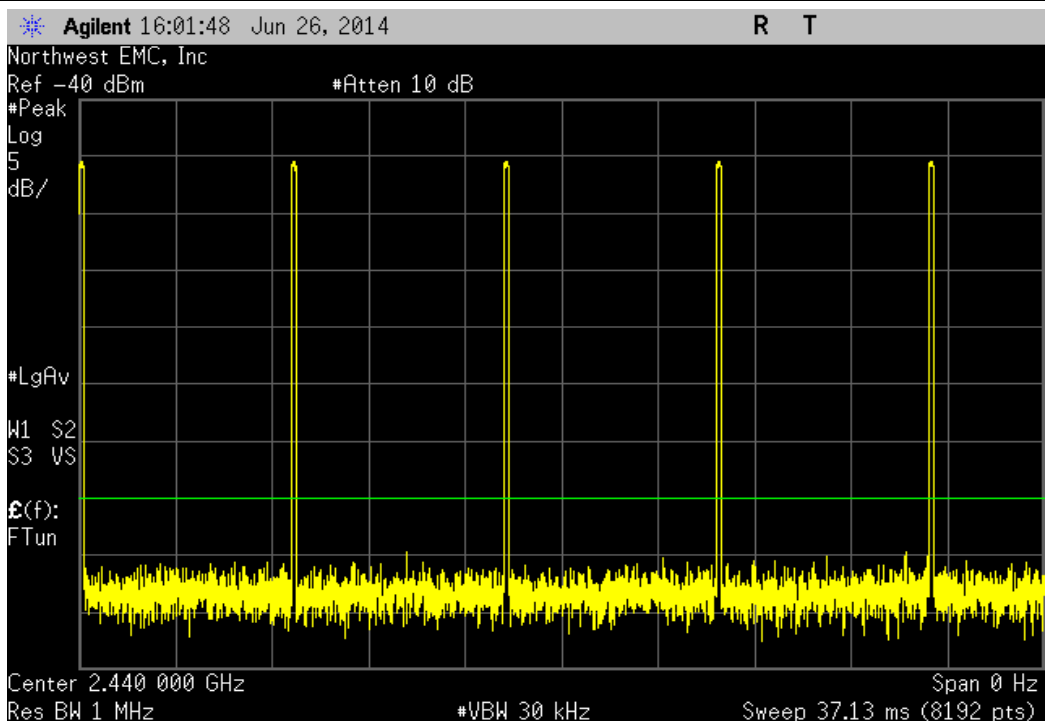
2400 MHz - 2483.5 MHz Band, Low Channel 11, 2405 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Duty Cycle Correction Factor	
N/A	N/A	5	N/A	N/A	N/A	



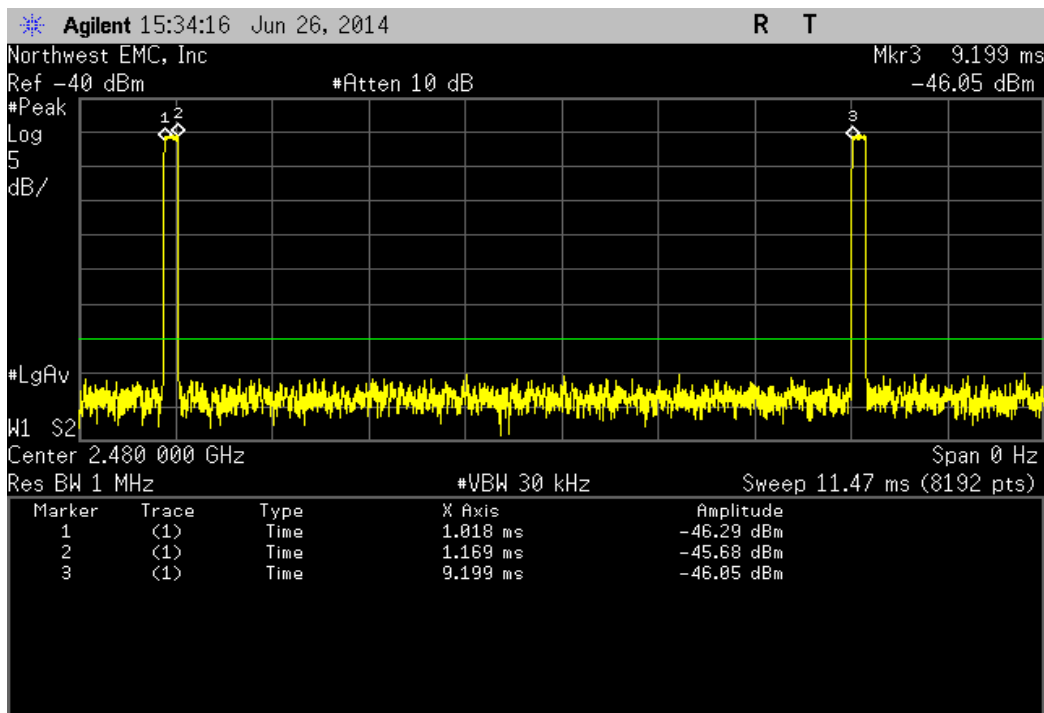
2400 MHz - 2483.5 MHz Band, Mid Channel 18, 2440 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Duty Cycle Correction Factor	
147 uS	8.179 mS	1	1.8	N/A	-20.93	



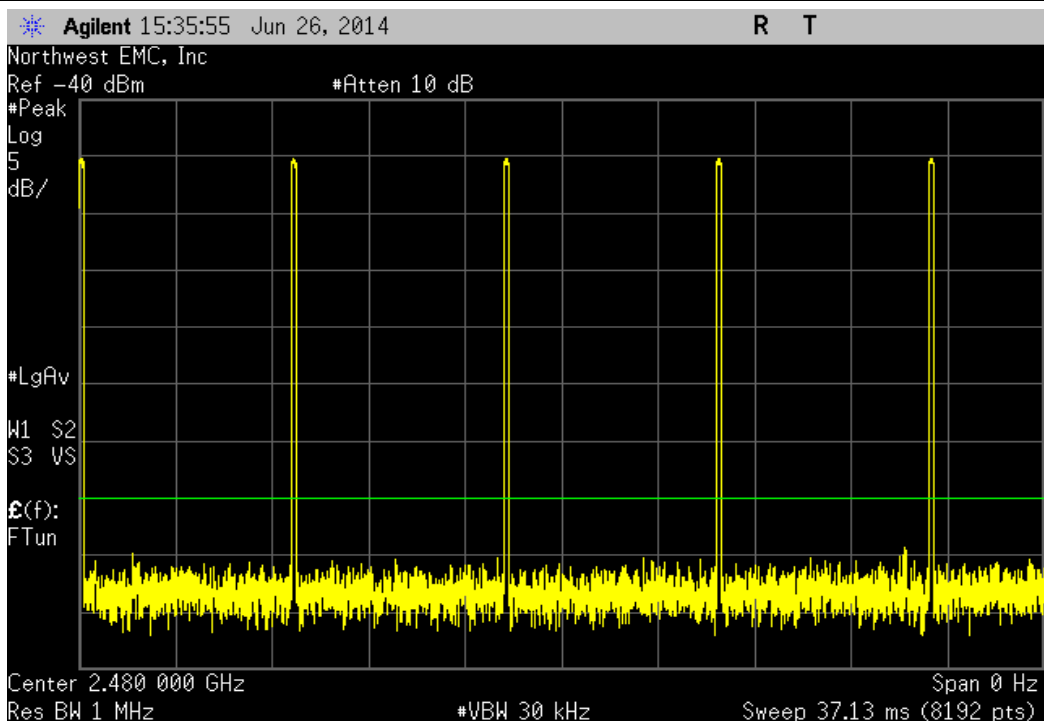
2400 MHz - 2483.5 MHz Band, Mid Channel 18, 2440 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Duty Cycle Correction Factor	
N/A	N/A	5	N/A	N/A	N/A	



2400 MHz - 2483.5 MHz Band, High Channel 26, 2480 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Duty Cycle Correction Factor	
151.2 μ S	8.182 ms	1	1.8	N/A	-20.69	



2400 MHz - 2483.5 MHz Band, High Channel 26, 2480 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Duty Cycle Correction Factor	
N/A	N/A	5	N/A	N/A	N/A	



OCCUPIED BANDWIDTH

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Horn	EMCO	3115	AHB	3/10/2014	24
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	6/17/2014	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 26 dB (99.9%) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to low, medium and high transmit frequencies. The measurement was made in a radiated configuration in a semi-anechoic chamber with the fundamental of the carrier full maximized for its highest radiated power. The EUT was transmitting at the data rate(s) listed in the datasheet.



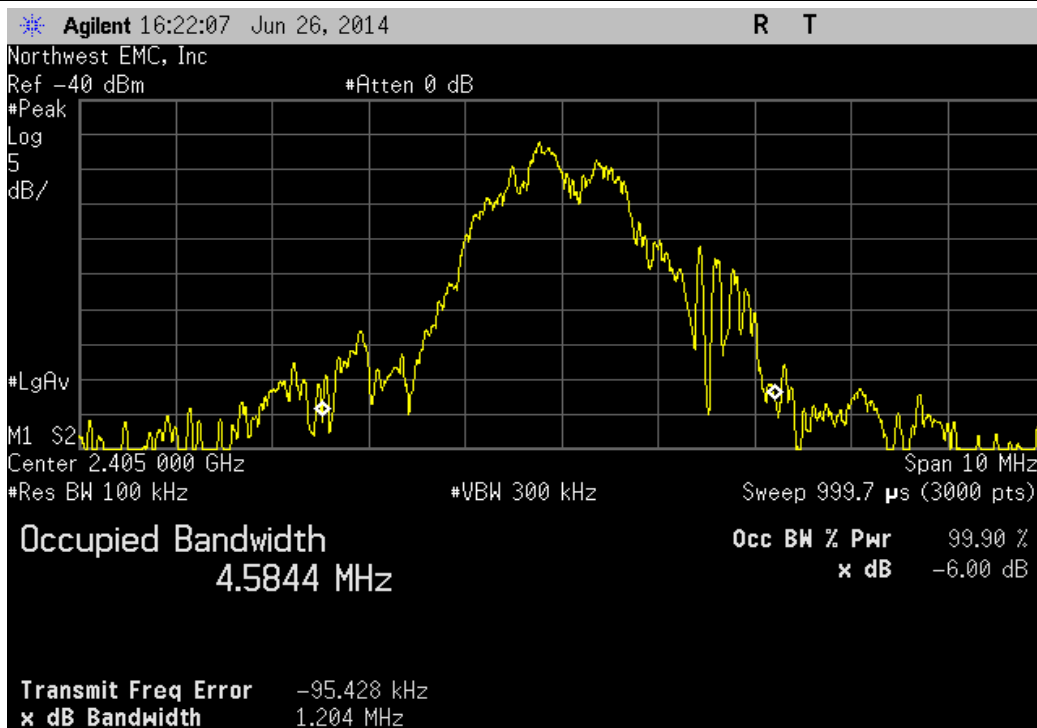
OCCUPIED BANDWIDTH

XMit 2014.02.07
PsaTx 14.04.29.1

EUT: Remote Controlled LED Lamp Model #: CP3817LC		Work Order: GLBC0139	
Serial Number: 1047-19		Date: 06/27/14	
Customer: Shanghai Qiangling Electronic Co Ltd		Temperature: 25.3 °C	
Attendees: Leon Kogan, Global Certification Technologies, Inc.		Humidity: 48%	
Project: None		Barometric Pres.: 1014	
Tested by: Johnny Candelas		Power: 120VAC/60Hz	
		Job Site: OC10	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2014		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Value	Limit
2400 MHz - 2483.5 MHz Band			Result
Low Channel 11, 2405 MHz		1.204 MHz	> 500 kHz
Mid Channel 18, 2440 MHz		1.364 MHz	> 500 kHz
High Channel 26, 2480 MHz		1.466 MHz	> 500 kHz

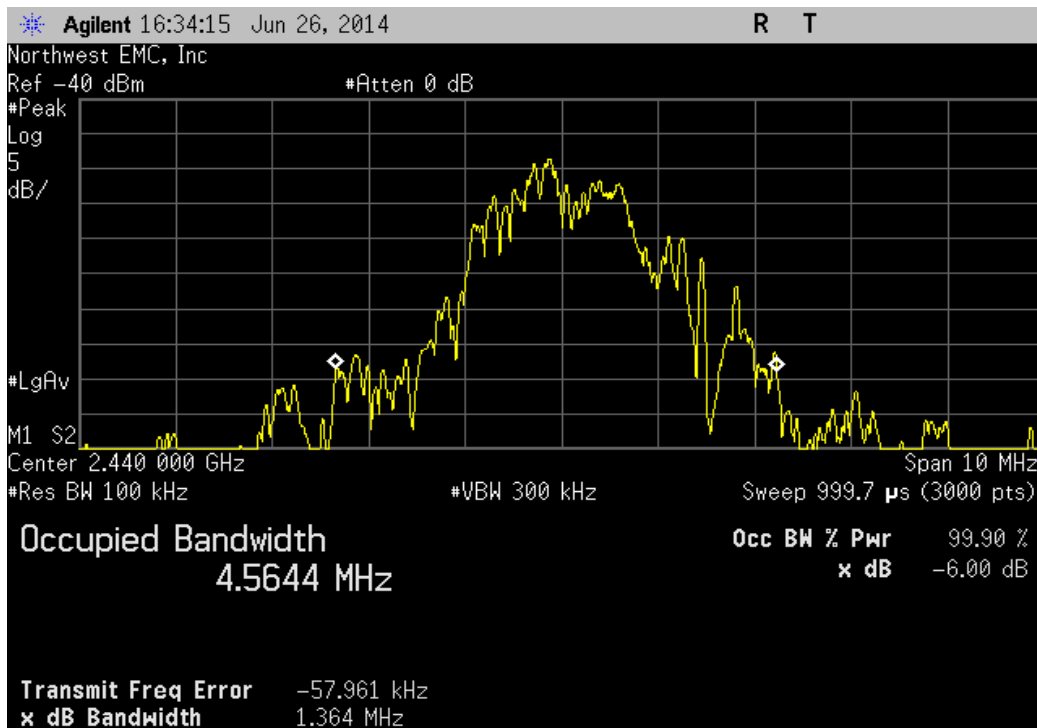
2400 MHz - 2483.5 MHz Band, Low Channel 11, 2405 MHz

				Value	Limit	Result
				1.204 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, Mid Channel 18, 2440 MHz

				Value	Limit	Result
				1.364 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, High Channel 26, 2480 MHz

	Value	Limit	Result
	1.466 MHz	> 500 kHz	Pass



OUTPUT POWER

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Continuously Transmitting, Low Channel 11 - 2405 MHz, Mid Channel 18 - 2440 MHz, & High Channel 26 - 2480 MHz

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

GLBC0139 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	2400 MHz	Stop Frequency	2483.5 MHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Horn	EMCO	3115	AHB	3/10/2014	24 mo
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	6/17/2014	12 mo
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24 mo

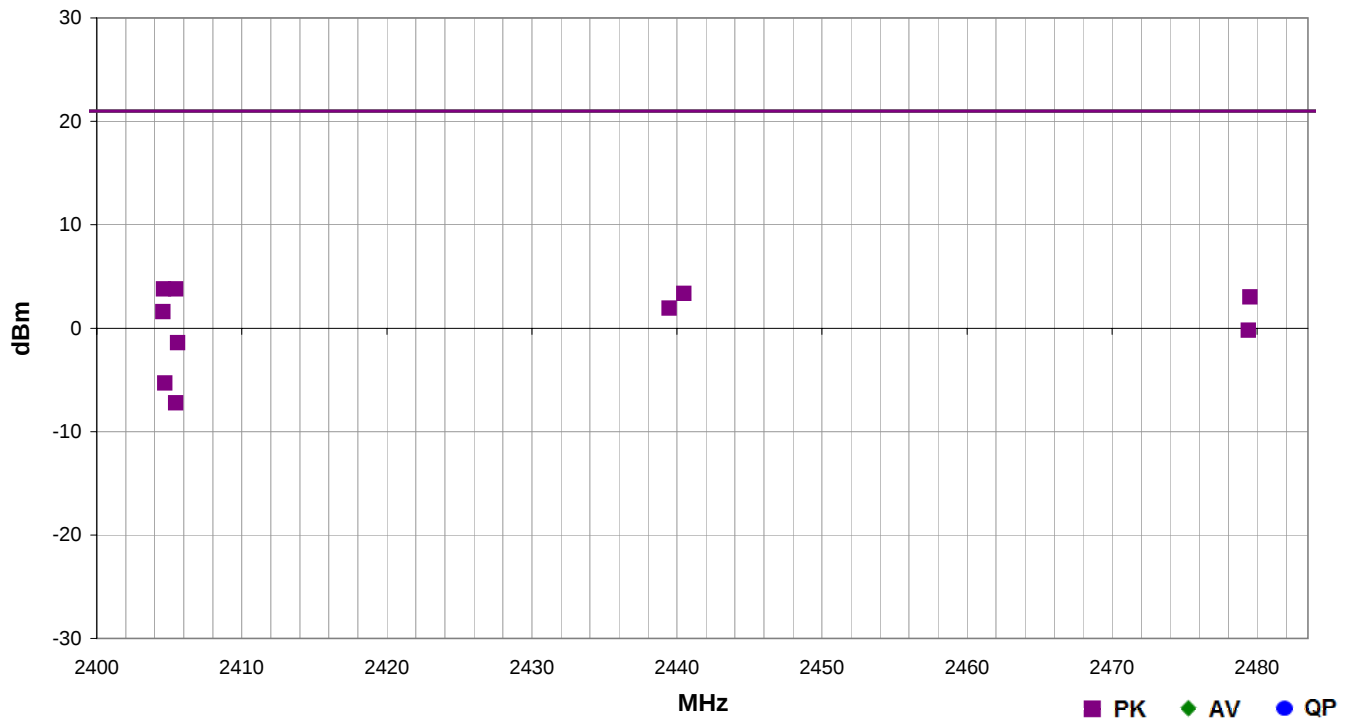
TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT and EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009).

Work Order:	GLBC0139	Date:	06/27/14	
Project:	None	Temperature:	24 °C	
Job Site:	OC10	Humidity:	49.7% RH	
Serial Number:	1047-19	Barometric Pres.:	1015 mbar	
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting, Low Channel - 2405 MHz, Mid Channel - 2440 MHz, & High Channel - 2480 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	28	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
2405.458	1.4	308.0	Horz	PK	2.39E-03	3.8	21.0	-17.2	EUT on Side, Low Ch
2404.617	1.4	298.0	Horz	PK	2.39E-03	3.8	21.0	-17.2	EUT Horiz, Low Ch
2440.492	1.4	300.0	Horz	PK	2.16E-03	3.3	21.0	-17.7	EUT Horiz, Mid Ch
2479.500	1.3	296.0	Horz	PK	2.00E-03	3.0	21.0	-18.0	EUT Horiz, High Ch
2439.458	1.3	168.0	Vert	PK	1.56E-03	1.9	21.0	-19.1	EUT Vert, Mid Ch
2404.575	1.4	166.0	Vert	PK	1.44E-03	1.6	21.0	-19.4	EUT Vert, Low Ch
2479.400	1.2	171.0	Vert	PK	9.57E-04	-0.2	21.0	-21.2	EUT Vert, High Ch
2405.583	1.6	10.0	Vert	PK	7.22E-04	-1.4	21.0	-22.4	EUT Horiz, Low Ch
2404.700	1.9	171.0	Vert	PK	2.94E-04	-5.3	21.0	-26.3	EUT on Side, Low Ch
2405.442	3.2	158.0	Horz	PK	1.90E-04	-7.2	21.0	-28.2	EUT Vert, Low Ch

POWER SPECTRAL DENSITY

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Horn	EMCO	3115	AHB	3/10/2014	24
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	6/17/2014	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24

TEST DESCRIPTION

The maximum power spectral density measurements were measured with the EUT set to the required transmit frequencies in each band. The measurement was made in a radiated configuration in a semi-anechoic chamber with pre-amp bypassed. The EUT was transmitting at the lowest, middle, and maximum data rate for each modulation type available.

Per the procedure outlined in FCC KDB 558074 D01 DTS Measurement Section 5.3.1, the spectrum analyzer was used as follows:

- RBW = 100 kHz
- VBW = 300 kHz
- Detector = Peak (to match method used for power measurement)
- Trace = Max hold

The observed power level is then scaled to an equivalent value in 3 kHz by adding a Bandwidth Correction Factor (BWCF) where:

$$\text{BWCF} = 10 \cdot \log(3 \text{ kHz} / 100 \text{ kHz}) = -15.2 \text{ dB}$$

The radiated measurement losses were added to the measured value as shown on the data sheet.

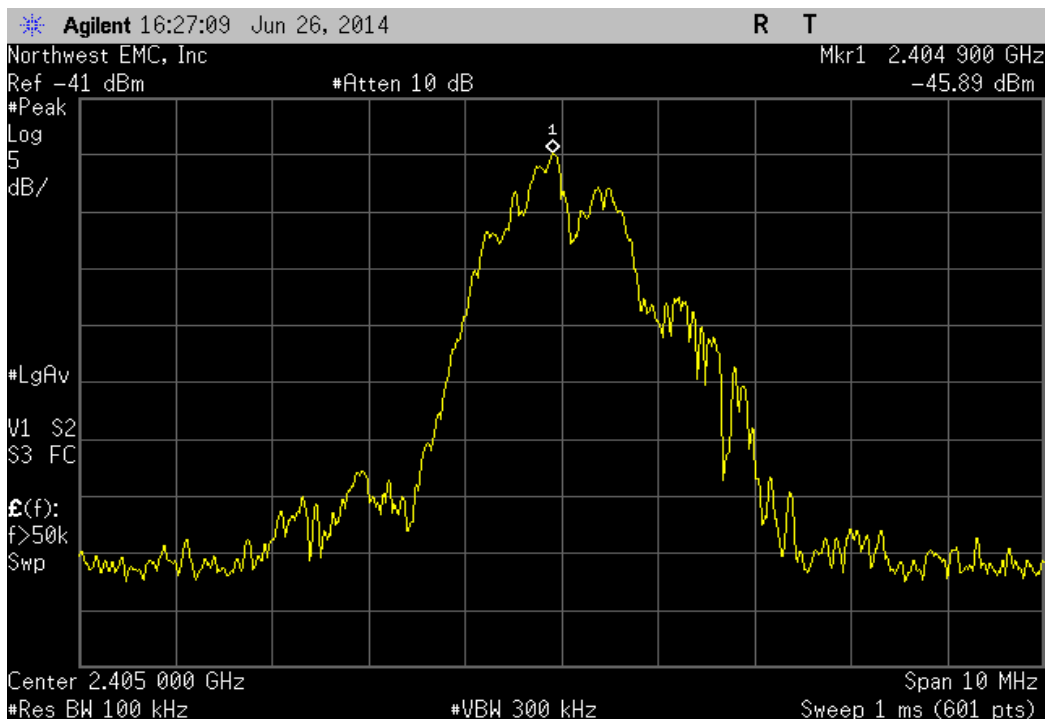


POWER SPECTRAL DENSITY

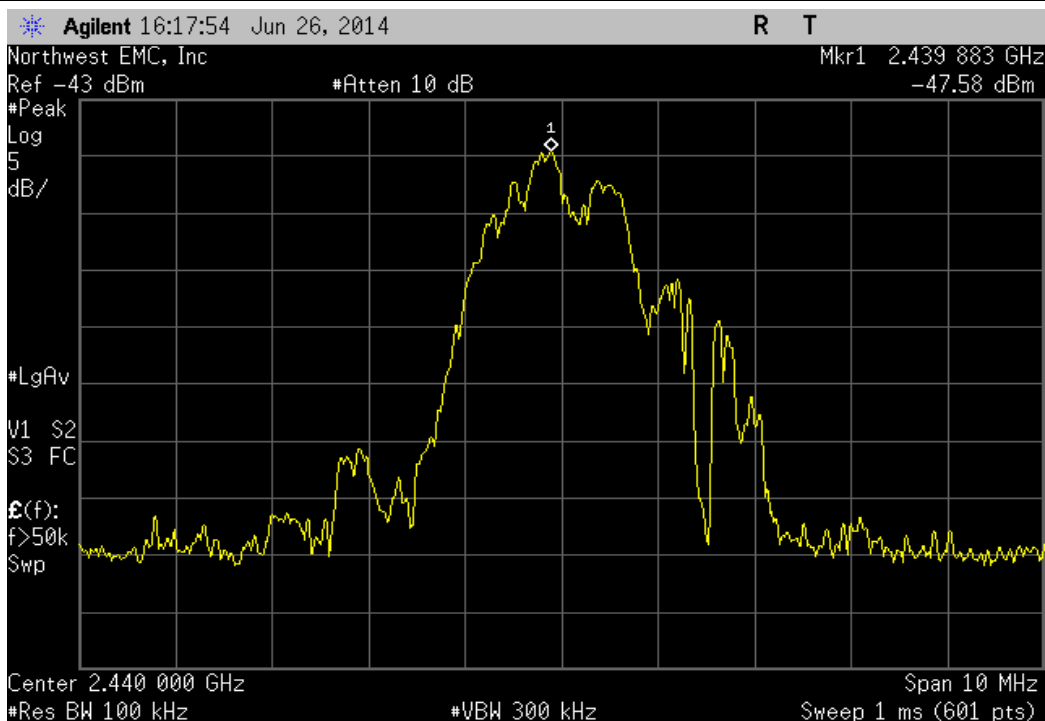
XMit 2014.02.07
PsaTx 14.04.29.1

EUT: Remote Controlled LED Lamp Model #: CP3817LC		Work Order: GLBC0139					
Serial Number: 1047-19		Date: 06/27/14					
Customer: Shanghai Qiangling Electronic Co Ltd		Temperature: 25.3 °C					
Attendees: Leon Kogan, Global Certification Technologies, Inc.		Humidity: 48%					
Project: None		Barometric Pres.: 1014					
Tested by: Johnny Candelas		Power: 120VAC/60Hz					
		Job Site: OC10					
TEST SPECIFICATIONS		Test Method					
FCC 15.247:2014		ANSI C63.10:2009					
COMMENTS							
Transmitter has very low output power. The measurement was made in a radiated configuration in a semi-anechoic chamber with pre-amp bypassed. No offset required							
DEVIATIONS FROM TEST STANDARD							
None							
Configuration #	1	Signature 					
		Value dBm/100kHz	Factors dB	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
2400 MHz - 2483.5 MHz Band							
Low Channel 11, 2405 MHz		-45.889	34.96	-15.2	-26.126	8	Pass
Mid Channel 18, 2440 MHz		-47.575	34.96	-15.2	-27.815	8	Pass
High Channel 26, 2480 MHz		-46.986	34.96	-15.2	-27.226	8	Pass

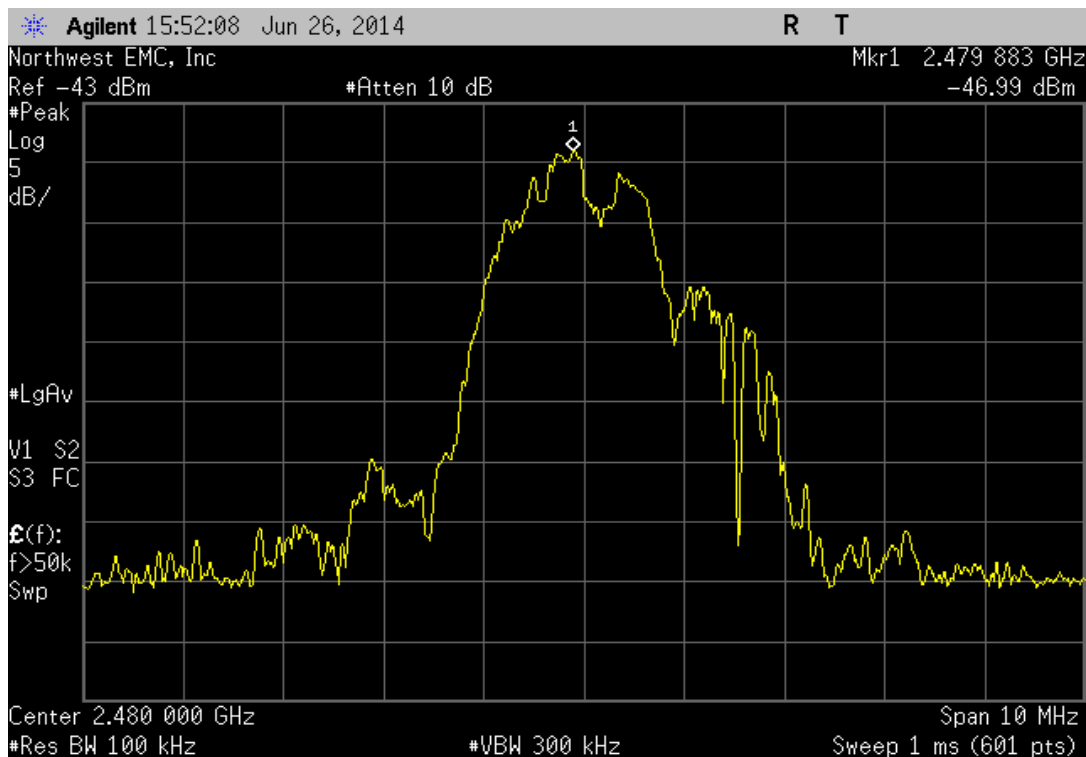
2400 MHz - 2483.5 MHz Band, Low Channel 11, 2405 MHz						
	Value	Factors	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	dB	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	-45.889	34.96	-15.2	-26.126	8	Pass



2400 MHz - 2483.5 MHz Band, Mid Channel 18, 2440 MHz						
	Value	Factors	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	dB	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	-47.575	34.96	-15.2	-27.815	8	Pass



2400 MHz - 2483.5 MHz Band, High Channel 26, 2480 MHz						
	Value dBm/100kHz	Factors dB	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
	-46.986	34.96	-15.2	-27.226	8	Pass



BAND EDGE COMPLIANCE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Horn	EMCO	3115	AHB	3/10/2014	24
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	6/17/2014	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.



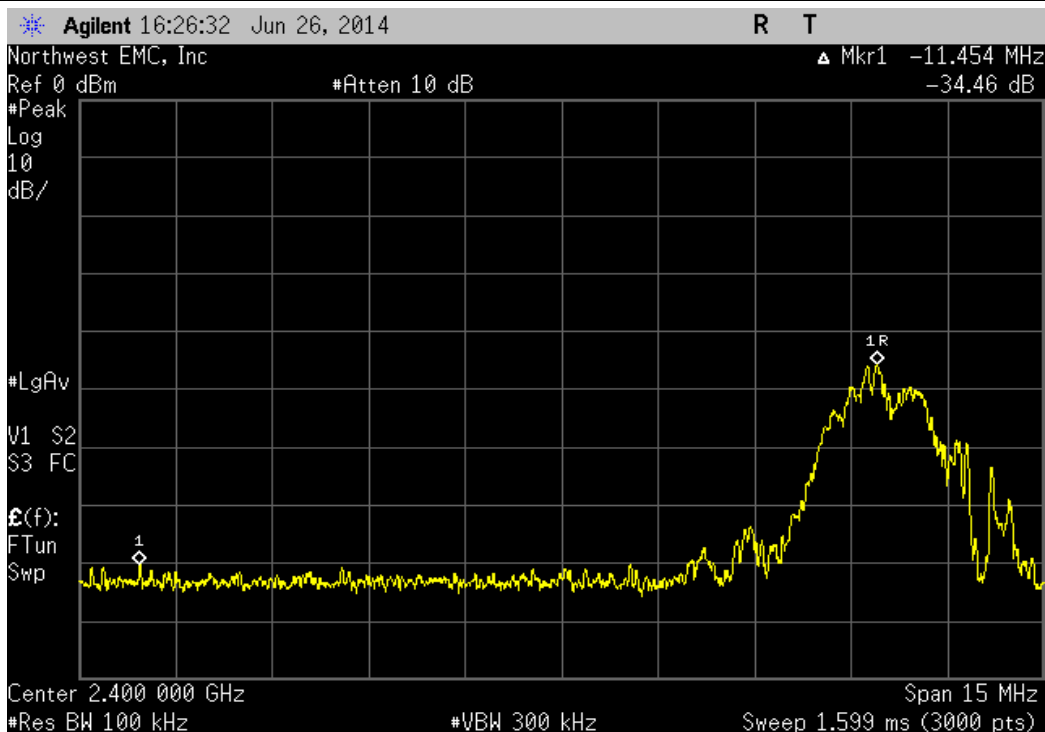
BAND EDGE COMPLIANCE

XMit 2014.02.07
PsaTx 14.04.29.1

EUT: Remote Controlled LED Lamp Model #: CP3817LC		Work Order: GLBC0139	
Serial Number: 1047-19		Date: 06/27/14	
Customer: Shanghai Qiangling Electronic Co Ltd		Temperature: 25.3 °C	
Attendees: Leon Kogan, Global Certification Technologies, Inc.		Humidity: 48%	
Project: None		Barometric Pres.: 1014	
Tested by: Johnny Candelas		Power: 120VAC/60Hz	
		Job Site: OC10	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2014		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Value	Limit
2400 MHz - 2483.5 MHz Band			Result
Low Channel 11, 2405 MHz		-34.46 dBc	≤ -20 dBc
High Channel 26, 2480 MHz		-32.66 dBc	≤ -20 dBc
			Pass
			Pass

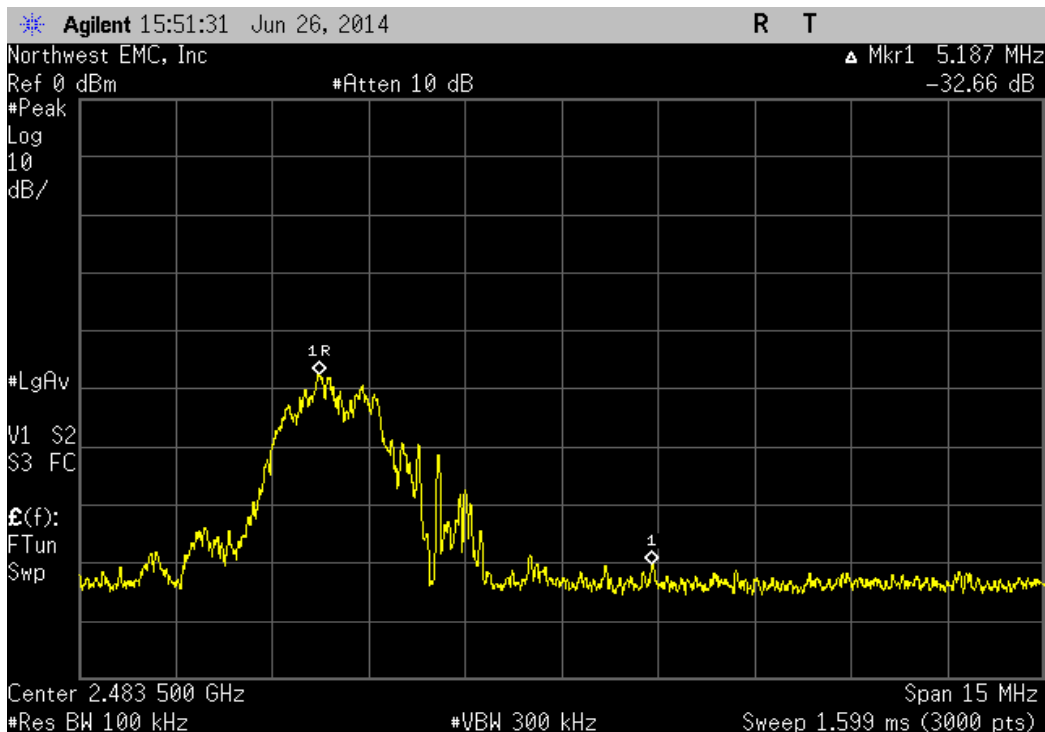
2400 MHz - 2483.5 MHz Band, Low Channel 11, 2405 MHz

				Value	Limit	Result
				-34.46 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, High Channel 26, 2480 MHz

				Value	Limit	Result
				-32.66 dBc	≤ -20 dBc	Pass



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Continuously Transmitting, Low Channel 11 - 2405 MHz
Continuously Transmitting, Mid Channel 18 - 2440 MHz
Continuously Transmitting, High Channel 26 - 2480 MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

CONFIGURATIONS INVESTIGATED

GLBC0139 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	1 GHz	Stop Frequency	26 GHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Coaxicom	66702 3910AF-20	TKI	4/28/2014	12 mo
HP Filter	Micro-Tronics	HPM50111	HFM	4/2/2012	36 mo
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVQ	1/10/2014	12 mo
Antenna, Horn	ETS	3160-10	AIX	NCR	0 mo
Cable	ESM Cable Corp.	KMKM-72	OC1	1/9/2014	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	1/10/2014	12 mo
Antenna, Horn	EMCO	3160-09	AHN	NCR	0 mo
OC floating Cable	N/A	18-26GHz RE Cables	OCK	2/6/2014	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	10/24/2013	12 mo
Antenna, Horn	ETS	3160-08	AHT	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	10/24/2013	12 mo
Antenna, Horn	ETS	3160-07	AHR	NCR	0 mo
OC 10 Cables	N/A	8-18GHz RE Cables	OCO	10/24/2013	12 mo
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	6/17/2014	12 mo
Antenna, Horn	EMCO	3115	AHB	3/10/2014	24 mo
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	6/17/2014	12 mo
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24 mo

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested.

The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance.

While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Per ANSI C63.10, section 6.9.3 Marker-delta method was used for measurements in the restricted band at the allowable band-edge for those emissions where the standard radiated method recorded failing results.



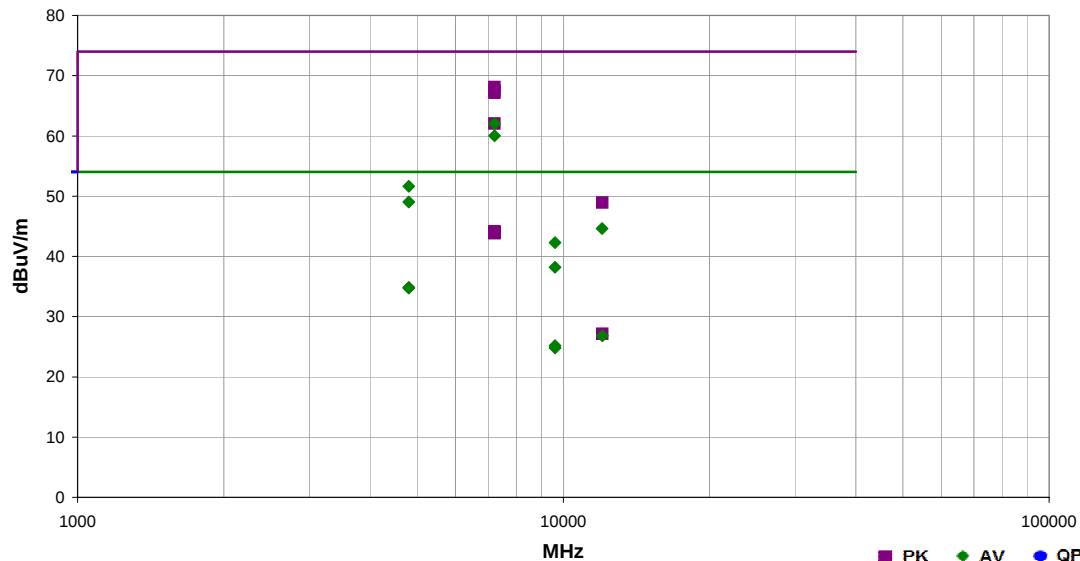
SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2014.04.28
EmiR5 2014.03.06

Work Order:	GLBC0139	Date:	06/26/14		
Project:	None	Temperature:	24 °C		
Job Site:	OC10	Humidity:	49.7% RH		
Serial Number:	1047-19	Barometric Pres.:	1015 mbar		
EUT:		Remote Controlled LED Lamp Model #: CP3817LC			Tested by: Johnny Candelas
Configuration:	1				
Customer:	Shanghai Qiangling Electronic Co Ltd				
Attendees:	Leon Kogan, Global Certification Technologies, Inc.				
EUT Power:	120VAC/60Hz				
Operating Mode:	Continuously Transmitting, Low Channel 11 - 2405 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	12	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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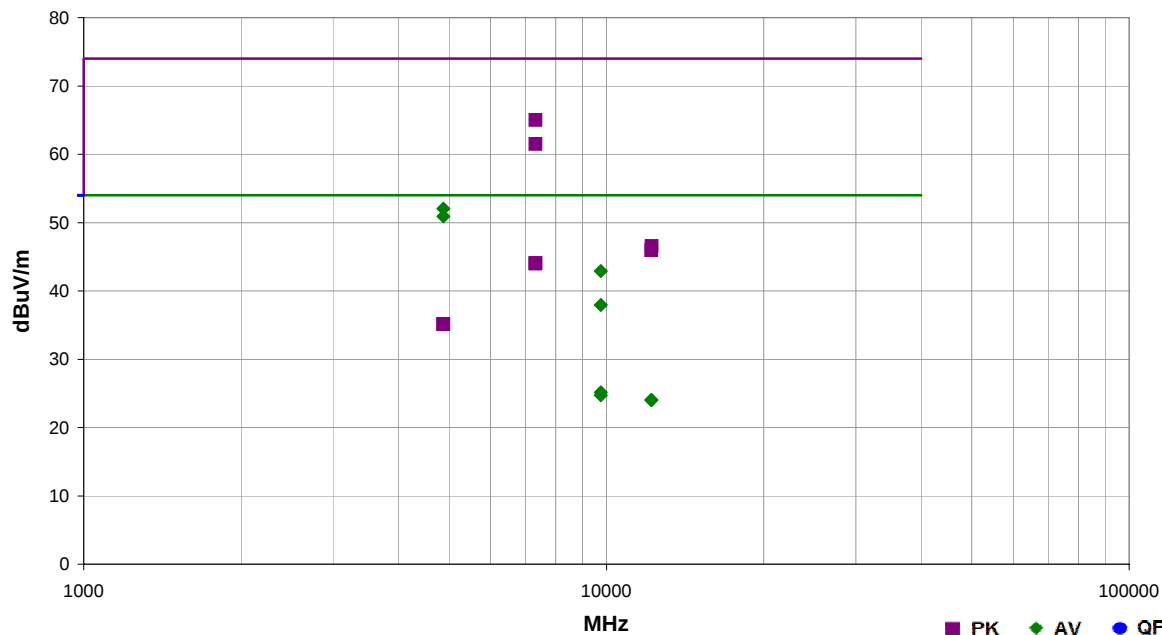
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	Duty Cycle Correction Factor	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7213.633	50.8	17.3	1.9	12.0	3.0	0.0	Horz	PK	0.0	68.1	74.0	-5.9	EUT Horiz, Low Ch
7213.383	50.2	17.3	1.2	357.0	3.0	0.0	Horz	PK	0.0	67.5	74.0	-6.5	EUT on Side, Low Ch
7213.350	49.8	17.3	1.2	17.0	3.0	0.0	Vert	PK	0.0	67.1	74.0	-6.9	EUT Horiz, Low Ch
7214.017	26.8	17.3	1.9	12.0	3.0	0.00	Horz	AV	0.0	44.1	54.0	-9.9	EUT Horiz, Low Ch
7213.717	26.7	17.3	1.2	357.0	3.0	0.00	Horz	AV	0.0	44.0	54.0	-10.0	EUT on Side, Low Ch
7213.617	26.7	17.3	1.2	17.0	3.0	0.00	Vert	AV	0.0	44.0	54.0	-10.0	EUT Horiz, Low Ch
7213.967	26.6	17.3	1.8	211.0	3.0	0.00	Vert	AV	0.0	43.9	54.0	-10.1	EUT Vert, Low Ch
7213.567	26.6	17.3	1.2	9.0	3.0	0.00	Vert	AV	0.0	43.9	54.0	-10.1	EUT on Side, Low Ch
7213.967	26.5	17.3	1.1	166.0	3.0	0.00	Horz	AV	0.0	43.8	54.0	-10.2	EUT Vert, Low Ch
7216.400	44.7	17.3	1.8	211.0	3.0	0.0	Vert	PK	0.0	62.0	74.0	-12.0	EUT Vert, Low Ch
7213.617	44.7	17.3	1.2	9.0	3.0	0.0	Vert	PK	0.0	62.0	74.0	-12.0	EUT on Side, Low Ch
7213.750	42.7	17.3	1.1	166.0	3.0	0.0	Horz	PK	0.0	60.0	74.0	-14.0	EUT Vert, Low Ch
4809.750	24.7	10.2	1.2	338.0	3.0	0.00	Horz	AV	0.0	34.9	54.0	-19.1	EUT Horiz, Low Ch
4806.183	24.6	10.1	1.2	358.0	3.0	0.00	Vert	AV	0.0	34.7	54.0	-19.3	EUT Horiz, Low Ch
4808.683	41.5	10.2	1.2	338.0	3.0	0.0	Horz	PK	0.0	51.7	74.0	-22.3	EUT Horiz, Low Ch
4809.267	38.9	10.2	1.2	358.0	3.0	0.0	Vert	PK	0.0	49.1	74.0	-24.9	EUT Horiz, Low Ch
12027.980	58.4	-9.5	1.0	319.0	3.0	0.0	Vert	PK	0.0	48.9	74.0	-25.1	EUT Horiz, Low Ch
12027.250	36.6	-9.5	1.0	319.0	3.0	0.00	Vert	AV	0.0	27.1	54.0	-26.9	EUT Horiz, Low Ch
12027.220	36.3	-9.5	1.2	346.0	3.0	0.00	Horz	AV	0.0	26.8	54.0	-27.2	EUT Horiz, Low Ch
9618.150	35.4	-10.2	1.0	360.0	3.0	0.00	Horz	AV	0.0	25.2	54.0	-28.8	EUT Horiz, Low Ch
9618.800	35.0	-10.2	1.2	360.0	3.0	0.00	Vert	AV	0.0	24.8	54.0	-29.2	EUT Horiz, Low Ch
12022.750	54.1	-9.5	1.2	346.0	3.0	0.0	Horz	PK	0.0	44.6	74.0	-29.4	EUT Horiz, Low Ch
9620.100	52.5	-10.2	1.0	360.0	3.0	0.0	Horz	PK	0.0	42.3	74.0	-31.7	EUT Horiz, Low Ch
9619.367	48.4	-10.2	1.2	360.0	3.0	0.0	Vert	PK	0.0	38.2	74.0	-35.8	EUT Horiz, Low Ch

SPURIOUS RADIATED EMISSIONS

Work Order:	GLBC0139	Date:	06/26/14	
Project:	None	Temperature:	24 °C	
Job Site:	OC10	Humidity:	49.7% RH	
Serial Number:	1047-19	Barometric Pres.:	1015 mbar	
		Tested by:	Johnny Candelas	
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Transmitting, Mid Channel 18 - 2440 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	14	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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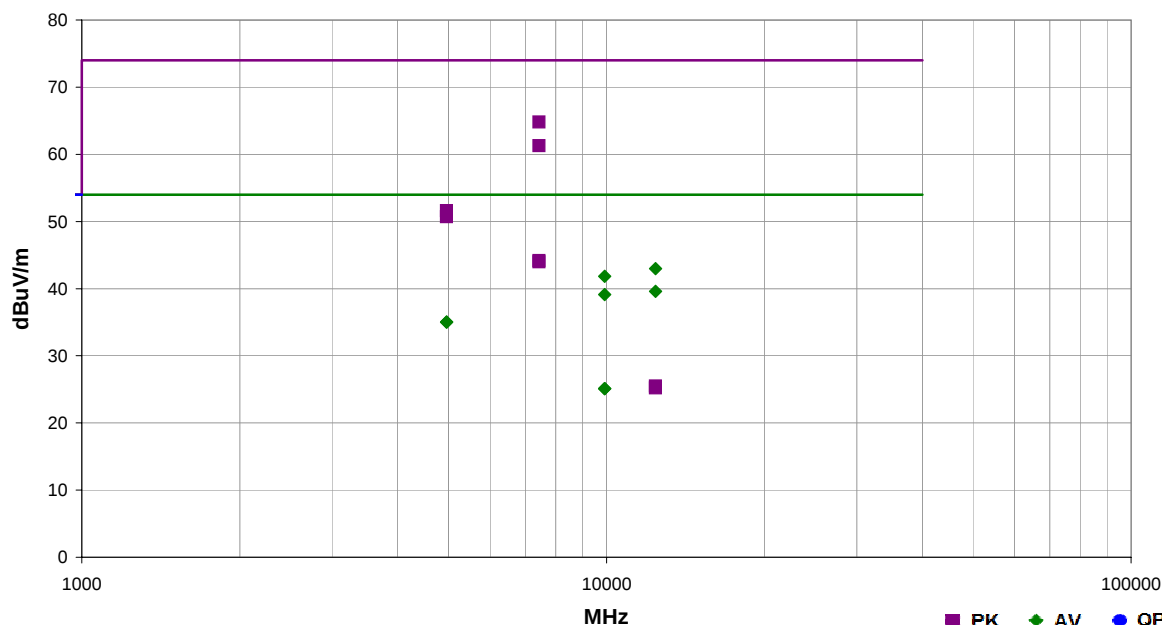
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	Duty Cycle Correction Factor	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7318.367	47.1	17.9	2.0	4.0	3.0	0.0	Vert	PK	0.0	65.0	74.0	-9.0	EUT Horiz, Mid Ch
7318.767	26.2	17.9	2.0	4.0	3.0	0.0	Vert	AV	0.0	44.1	54.0	-9.9	EUT Horiz, Mid Ch
7318.733	26.1	17.9	1.2	300.0	3.0	0.0	Horz	AV	0.0	44.0	54.0	-10.0	EUT Horiz, Mid Ch
7318.300	43.6	17.9	1.2	300.0	3.0	0.0	Horz	PK	0.0	61.5	74.0	-12.5	EUT Horiz, Mid Ch
4879.567	24.7	10.4	1.2	329.0	3.0	0.0	Horz	AV	0.0	35.1	54.0	-18.9	EUT Horiz, Mid Ch
4879.017	24.7	10.4	1.2	352.0	3.0	0.0	Vert	AV	0.0	35.1	54.0	-18.9	EUT Horiz, Mid Ch
4879.100	41.6	10.4	1.2	352.0	3.0	0.0	Vert	PK	0.0	52.0	74.0	-22.0	EUT Horiz, Mid Ch
4879.433	40.5	10.4	1.2	329.0	3.0	0.0	Horz	PK	0.0	50.9	74.0	-23.1	EUT Horiz, Mid Ch
12202.200	55.8	-9.3	1.0	321.0	3.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	EUT Horiz, Mid Ch
12197.540	55.2	-9.3	1.0	326.0	3.0	0.0	Horz	PK	0.0	45.9	74.0	-28.1	EUT Horiz, Mid Ch
9761.583	35.2	-10.1	1.0	360.0	3.0	0.0	Horz	AV	0.0	25.1	54.0	-28.9	EUT Horiz, Mid Ch
9761.600	34.8	-10.1	1.2	3.0	3.0	0.0	Vert	AV	0.0	24.7	54.0	-29.3	EUT Horiz, Mid Ch
12197.670	33.3	-9.3	1.0	326.0	3.0	0.0	Horz	AV	0.0	24.0	54.0	-30.0	EUT Horiz, Mid Ch
12197.600	33.3	-9.3	1.0	321.0	3.0	0.0	Vert	AV	0.0	24.0	54.0	-30.0	EUT Horiz, Mid Ch
9757.867	53.0	-10.1	1.0	360.0	3.0	0.0	Horz	PK	0.0	42.9	74.0	-31.1	EUT Horiz, Mid Ch
9757.967	48.0	-10.1	1.2	3.0	3.0	0.0	Vert	PK	0.0	37.9	74.0	-36.1	EUT Horiz, Mid Ch

SPURIOUS RADIATED EMISSIONS

Work Order:	GLBC0139	Date:	06/26/14	
Project:	None	Temperature:	24 °C	
Job Site:	OC10	Humidity:	49.7% RH	
Serial Number:	1047-19	Barometric Pres.:	1015 mbar	
		Tested by:		Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Transmitting, High Channel 26 - 2480 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	16	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	Duty Cycle Correction Factor	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7441.333	46.7	18.1	1.2	360.0	3.0	0.0	Vert	PK	0.0	64.8	74.0	-9.2	EUT Horiz, High Ch
7438.500	26.1	18.1	1.2	360.0	3.0	0.00	Vert	AV	0.0	44.2	54.0	-9.8	EUT Horiz, High Ch
7438.333	25.9	18.1	1.2	328.0	3.0	0.00	Horz	AV	0.0	44.0	54.0	-10.0	EUT Horiz, High Ch
7438.733	43.2	18.1	1.2	328.0	3.0	0.0	Horz	PK	0.0	61.3	74.0	-12.7	EUT Horiz, High Ch
4960.967	24.3	10.7	1.2	352.0	3.0	0.00	Vert	AV	0.0	35.0	54.0	-19.0	EUT Horiz, High Ch
4960.867	24.3	10.7	1.2	327.0	3.0	0.00	Horz	AV	0.0	35.0	54.0	-19.0	EUT Horiz, High Ch
4961.300	40.9	10.7	1.2	352.0	3.0	0.0	Vert	PK	0.0	51.6	74.0	-22.4	EUT Horiz, High Ch
4959.067	40.0	10.7	1.2	327.0	3.0	0.0	Horz	PK	0.0	50.7	74.0	-23.3	EUT Horiz, High Ch
12397.450	34.5	-9.0	1.0	340.0	3.0	0.00	Vert	AV	0.0	25.5	54.0	-28.5	EUT Horiz, High Ch
12397.580	34.2	-9.0	1.2	360.0	3.0	0.00	Horz	AV	0.0	25.2	54.0	-28.8	EUT Horiz, High Ch
9918.250	34.9	-9.8	1.2	352.0	3.0	0.00	Vert	AV	0.0	25.1	54.0	-28.9	EUT Horiz, High Ch
9917.850	34.9	-9.8	1.2	310.0	3.0	0.00	Horz	AV	0.0	25.1	54.0	-28.9	EUT Horiz, High Ch
12397.470	52.0	-9.0	1.0	340.0	3.0	0.0	Vert	PK	0.0	43.0	74.0	-31.0	EUT Horiz, High Ch
9922.167	51.6	-9.8	1.2	310.0	3.0	0.0	Horz	PK	0.0	41.8	74.0	-32.2	EUT Horiz, High Ch
12397.240	48.6	-9.0	1.2	360.0	3.0	0.0	Horz	PK	0.0	39.6	74.0	-34.4	EUT Horiz, High Ch
9917.983	48.9	-9.8	1.2	352.0	3.0	0.0	Vert	PK	0.0	39.1	74.0	-34.9	EUT Horiz, High Ch

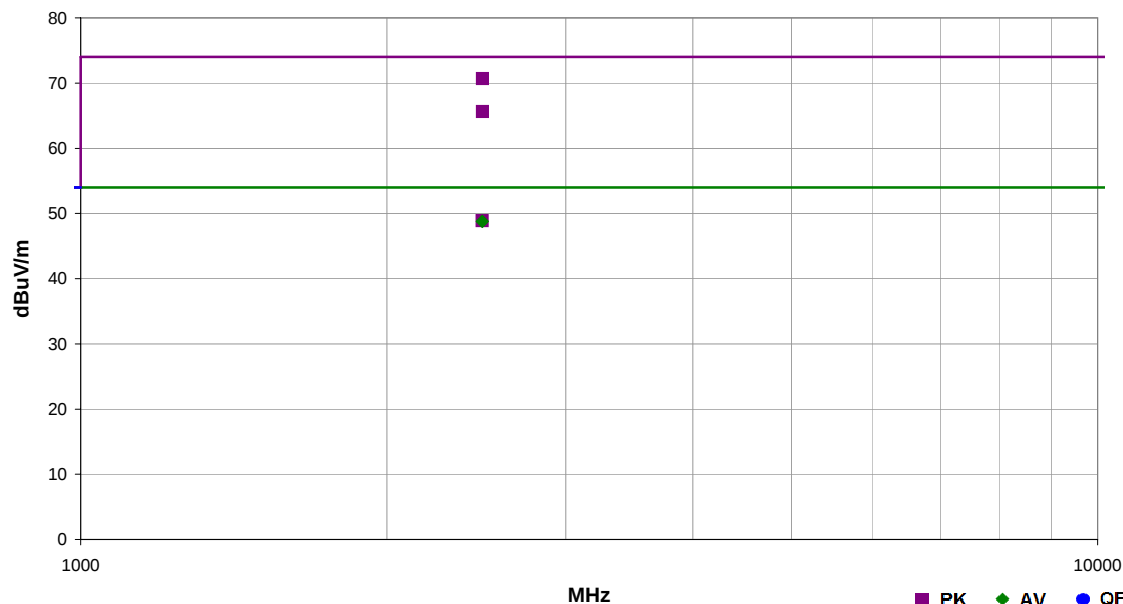


SPURIOUS RADIATED EMISSIONS

Work Order:	GLBC0139	Date:	06/26/14	
Project:	None	Temperature:	24 °C	
Job Site:	OC10	Humidity:	49.7% RH	
Serial Number:	1047-19	Barometric Pres.:	1015 mbar	
EUT:		Remote Controlled LED Lamp Model #: CP3817LC		
Configuration:	Unknown			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting, High Channel 26 - 2480 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	N/A	Test Method
FCC 15.247:2014		ANSI C63.10:2009

Run #	18	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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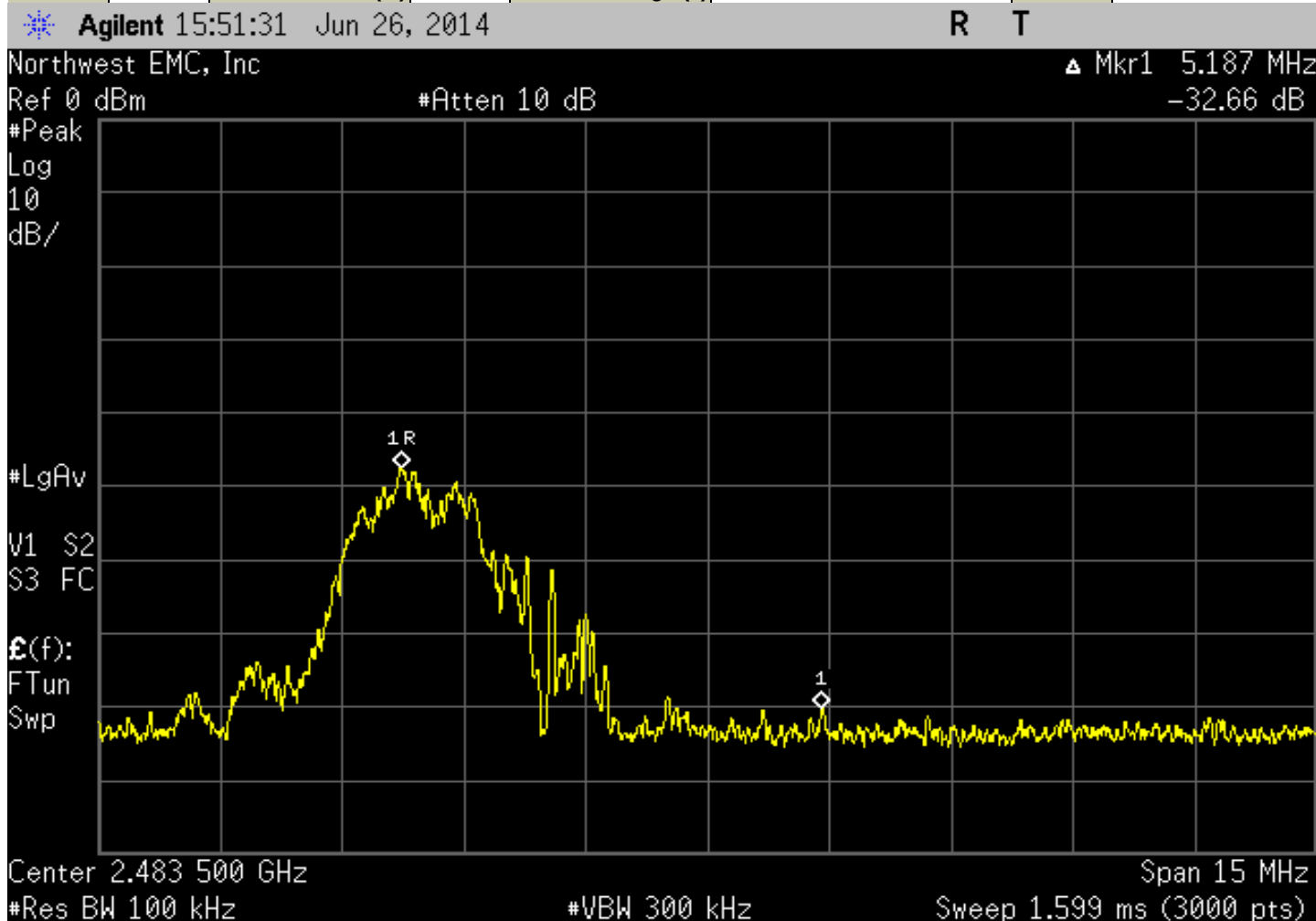
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2479.500	63.2	35.0	1.3	296.0	3.0	0.0	Horz	PK	0.0	98.2			Fundamental, EUT Horiz, High Ch
2483.478			1.4	295.0	3.0	20.0	Horz	PK	0.0	65.6	74.0	-8.4	EUT Horiz, High Ch, Marker Delta Method: Peak 98.2 + -32.6 dBc = 65.6
2483.539	47.5	3.2	1.6	328.0	3.0	20.0	Vert	PK	0.0	70.7	74.0	-3.3	EUT Horiz, High Ch
2483.450	25.7	3.2	1.4	295.0	3.0	20.0	Horz	AV	0.0	48.9	54.0	-5.1	EUT Horiz, High Ch
2483.455	25.6	3.2	1.6	328.0	3.0	20.0	Vert	AV	0.0	48.8	54.0	-5.2	EUT Horiz, High Ch

SPURIOUS RADIATED EMISSIONS

Work Order:	GLBC0139	Date:	06/26/14	
Project:	None	Temperature:	24 °C	
Job Site:	OC10	Humidity:	49.7% RH	
Serial Number:	1047-19	Barometric Pres.:	1015 mbar	
		Tested by:		Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	Unknown			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting, High Channel 26 - 2480 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	18	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Continuously Transmitting Low Channel - 2405 MHz

Continuously Transmitting Mid Channel - 2440 MHz

Continuously Transmitting High Channel - 2480 MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

CONFIGURATIONS INVESTIGATED

GLBC0139 - 1

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-24-BNC	LIA	4/22/2014	12 mo
HP Filter	TTE	H97-100K-50-720B	HFP	3/1/2012	36 mo
OC06 Cables	N/A	Telecom Cables	OCP	10/8/2013	12 mo
Attenuator	Pasternack	6N10W-20	AWC	1/3/2014	12 mo
Receiver	Rohde & Schwarz	ESCI	ARG	5/13/2014	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	BW (kHz)
0.15 - 30.0	1.0
30.0 - 400.0	10.0
400.0 - 1000.0	100.0
1000.0 - 6000.0	1000.0

TEST DESCRIPTION

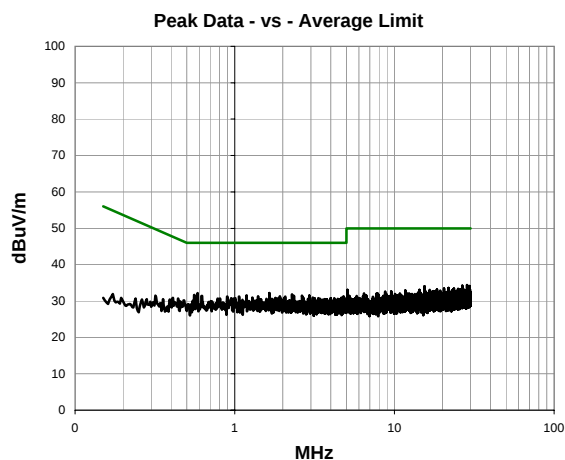
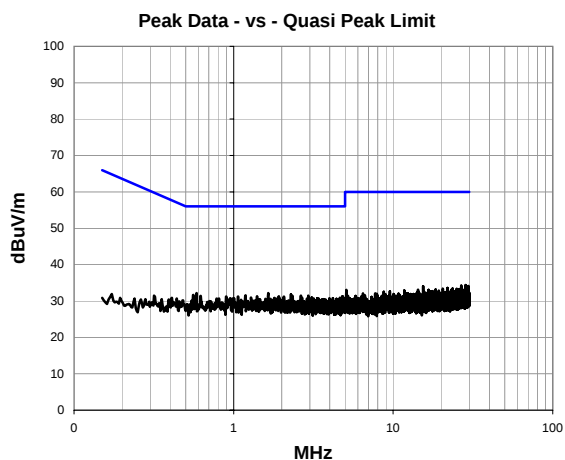
The EUT will be powered indirectly from the AC power line while operating in a host device. Therefore, conducted emissions measurements were made on the DC input of the EUT, or on the DC input of the device used to power the EUT. The AC power line conducted emissions were measured on a linear power supply providing DC power to the module while providing no filtering of the power inputs to the module.

The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band or bands. The EUT was transmitting in the mode which has the highest output power for the band. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10-2009.

Work Order:	GLBC0139	Date:	06/27/14	
Project:	None	Temperature:	24.1 °C	
Job Site:	OC06	Humidity:	50.3% RH	
Serial Number:	1047-19	Barometric Pres.:	1011 mbar	
		Tested by:	Johnny Candelas	
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Transmitting Low Channel - 2405 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.207:2014	ANSI C63.10:2009

Run #	1	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
0.587	12.1	20.1	32.2	56.0	-23.8
1.646	12.1	20.1	32.2	56.0	-23.8
2.288	11.7	20.1	31.8	56.0	-24.2
0.557	11.6	20.1	31.7	56.0	-24.3
1.187	11.5	20.1	31.6	56.0	-24.4
2.933	11.4	20.1	31.5	56.0	-24.5
2.638	11.4	20.1	31.5	56.0	-24.5
0.620	11.3	20.1	31.4	56.0	-24.6
2.347	11.3	20.1	31.4	56.0	-24.6
1.400	11.2	20.1	31.3	56.0	-24.7
1.918	11.2	20.1	31.3	56.0	-24.7
4.810	11.1	20.2	31.3	56.0	-24.7
0.896	11.1	20.1	31.2	56.0	-24.8
1.064	11.1	20.1	31.2	56.0	-24.8
2.071	11.1	20.1	31.2	56.0	-24.8
1.288	10.9	20.1	31.0	56.0	-25.0
3.090	10.8	20.2	31.0	56.0	-25.0
1.799	10.8	20.1	30.9	56.0	-25.1
1.930	10.8	20.1	30.9	56.0	-25.1
2.687	10.8	20.1	30.9	56.0	-25.1
4.646	10.7	20.2	30.9	56.0	-25.1
1.008	10.7	20.1	30.8	56.0	-25.2

Peak Data - vs - Average Limit

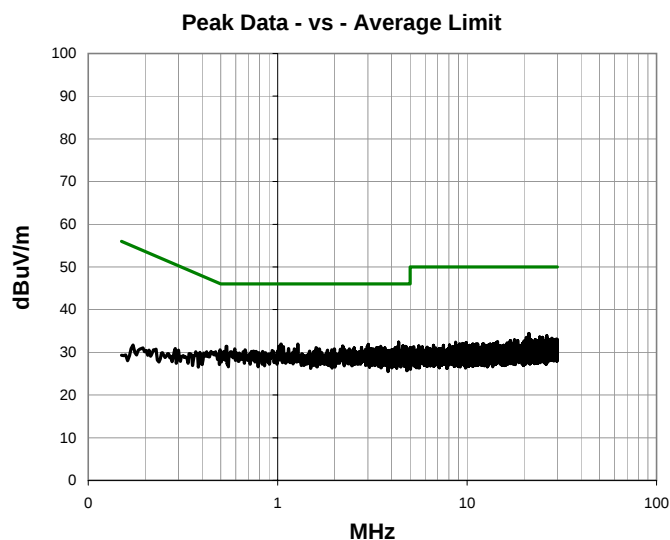
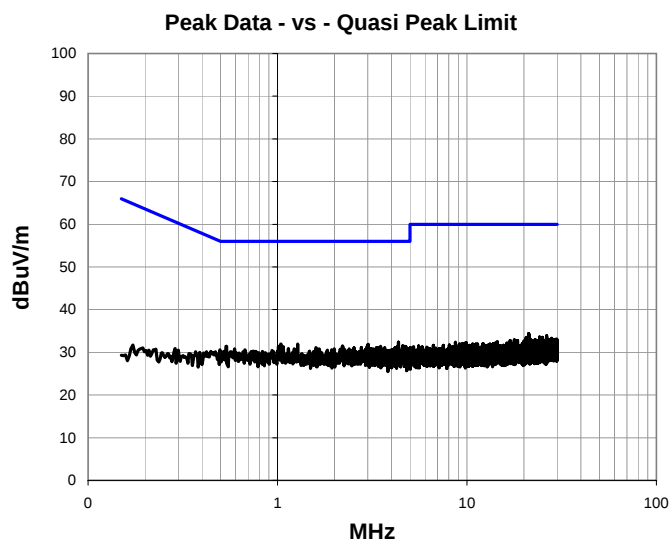
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.587	12.1	20.1	32.2	46.0	-13.8	
1.646	12.1	20.1	32.2	46.0	-13.8	
2.288	11.7	20.1	31.8	46.0	-14.2	
0.557	11.6	20.1	31.7	46.0	-14.3	
1.187	11.5	20.1	31.6	46.0	-14.4	
2.933	11.4	20.1	31.5	46.0	-14.5	
2.638	11.4	20.1	31.5	46.0	-14.5	
0.620	11.3	20.1	31.4	46.0	-14.6	
2.347	11.3	20.1	31.4	46.0	-14.6	
1.400	11.2	20.1	31.3	46.0	-14.7	
1.918	11.2	20.1	31.3	46.0	-14.7	
4.810	11.1	20.2	31.3	46.0	-14.7	
0.896	11.1	20.1	31.2	46.0	-14.8	
1.064	11.1	20.1	31.2	46.0	-14.8	
2.071	11.1	20.1	31.2	46.0	-14.8	
1.288	10.9	20.1	31.0	46.0	-15.0	
3.090	10.8	20.2	31.0	46.0	-15.0	
1.799	10.8	20.1	30.9	46.0	-15.1	
1.930	10.8	20.1	30.9	46.0	-15.1	
2.687	10.8	20.1	30.9	46.0	-15.1	
4.646	10.7	20.2	30.9	46.0	-15.1	
1.008	10.7	20.1	30.8	46.0	-15.2	

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
3.340	10.6	20.2	30.8	56.0	-25.2
3.993	10.6	20.2	30.8	56.0	-25.2
4.190	10.6	20.2	30.8	56.0	-25.2
0.784	10.6	20.1	30.7	56.0	-25.3
1.874	10.6	20.1	30.7	56.0	-25.3
2.668	10.6	20.1	30.7	56.0	-25.3
3.172	10.5	20.2	30.7	56.0	-25.3
2.881	10.5	20.1	30.6	56.0	-25.4
1.583	10.5	20.1	30.6	56.0	-25.4
1.706	10.5	20.1	30.6	56.0	-25.4
3.422	10.4	20.2	30.6	56.0	-25.4
4.411	10.4	20.2	30.6	56.0	-25.4
1.463	10.4	20.1	30.5	56.0	-25.5
3.672	10.3	20.2	30.5	56.0	-25.5
1.433	10.3	20.1	30.4	56.0	-25.6
3.773	10.2	20.2	30.4	56.0	-25.6
4.530	10.2	20.2	30.4	56.0	-25.6
28.485	12.6	21.8	34.4	60.0	-25.6
1.116	10.2	20.1	30.3	56.0	-25.7
3.564	10.1	20.2	30.3	56.0	-25.7
3.709	10.1	20.2	30.3	56.0	-25.7
4.612	10.1	20.2	30.3	56.0	-25.7
26.650	12.6	21.6	34.2	60.0	-25.8
2.202	10.1	20.1	30.2	56.0	-25.8

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
3.340	10.6	20.2	30.8	46.0	-15.2	
3.993	10.6	20.2	30.8	46.0	-15.2	
4.190	10.6	20.2	30.8	46.0	-15.2	
0.784	10.6	20.1	30.7	46.0	-15.3	
1.874	10.6	20.1	30.7	46.0	-15.3	
2.668	10.6	20.1	30.7	46.0	-15.3	
3.172	10.5	20.2	30.7	46.0	-15.3	
2.881	10.5	20.1	30.6	46.0	-15.4	
1.583	10.5	20.1	30.6	46.0	-15.4	
1.706	10.5	20.1	30.6	46.0	-15.4	
3.422	10.4	20.2	30.6	46.0	-15.4	
4.411	10.4	20.2	30.6	46.0	-15.4	
1.463	10.4	20.1	30.5	46.0	-15.5	
3.672	10.3	20.2	30.5	46.0	-15.5	
1.433	10.3	20.1	30.4	46.0	-15.6	
3.773	10.2	20.2	30.4	46.0	-15.6	
4.530	10.2	20.2	30.4	46.0	-15.6	
28.485	12.6	21.8	34.4	50.0	-15.6	
1.116	10.2	20.1	30.3	46.0	-15.7	
3.564	10.1	20.2	30.3	46.0	-15.7	
3.709	10.1	20.2	30.3	46.0	-15.7	
4.612	10.1	20.2	30.3	46.0	-15.7	
26.650	12.6	21.6	34.2	50.0	-15.8	
2.202	10.1	20.1	30.2	46.0	-15.8	

Work Order:	GLBC0139	Date:	06/27/14	
Project:	None	Temperature:	24.1 °C	
Job Site:	OC06	Humidity:	50.3% RH	
Serial Number:	1047-19	Barometric Pres.:	1011 mbar	
		Tested by:		Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Transmitting Low Channel - 2405 MHz			
Deviations:	None			
Comments:	None			

Test Specifications				Test Method			
FCC 15.207:2014				ANSI C63.10:2009			



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
4.355	12.2	20.2	32.4	56.0	-23.6
1.042	11.8	20.1	31.9	56.0	-24.1
1.277	11.8	20.1	31.9	56.0	-24.1
3.008	11.7	20.1	31.8	56.0	-24.2
2.198	11.4	20.1	31.5	56.0	-24.5
4.575	11.3	20.2	31.5	56.0	-24.5
2.974	11.3	20.1	31.4	56.0	-24.6

Peak Data - vs - Average Limit

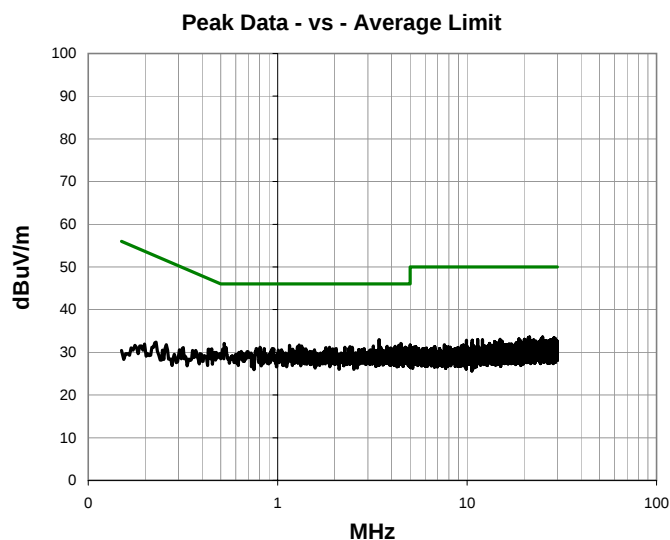
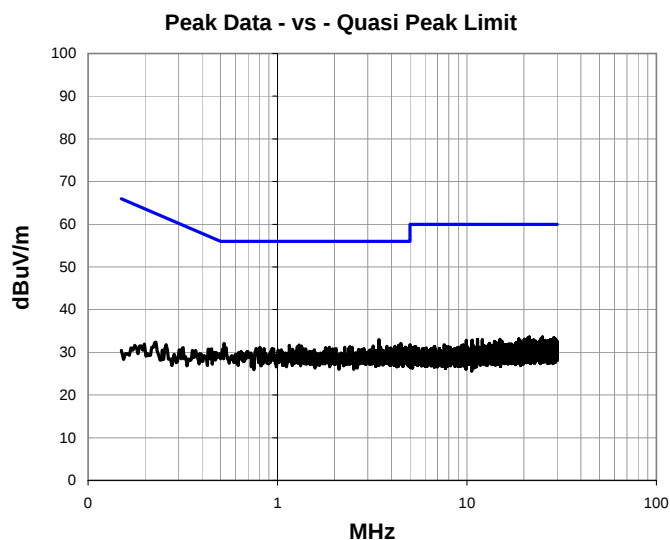
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
4.355	12.2	20.2	32.4	46.0	-13.6
1.042	11.8	20.1	31.9	46.0	-14.1
1.277	11.8	20.1	31.9	46.0	-14.1
3.008	11.7	20.1	31.8	46.0	-14.2
2.198	11.4	20.1	31.5	46.0	-14.5
4.575	11.3	20.2	31.5	46.0	-14.5
2.974	11.3	20.1	31.4	46.0	-14.6

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
0.534	11.3	20.1	31.4	56.0	-24.6
1.012	11.3	20.1	31.4	56.0	-24.6
3.504	11.2	20.2	31.4	56.0	-24.6
4.306	11.2	20.2	31.4	56.0	-24.6
4.612	11.2	20.2	31.4	56.0	-24.6
4.694	11.2	20.2	31.4	56.0	-24.6
1.072	11.2	20.1	31.3	56.0	-24.7
4.758	11.1	20.2	31.3	56.0	-24.7
1.598	11.0	20.1	31.1	56.0	-24.9
2.769	11.0	20.1	31.1	56.0	-24.9
3.332	10.9	20.2	31.1	56.0	-24.9
3.358	10.9	20.2	31.1	56.0	-24.9
3.459	10.9	20.2	31.1	56.0	-24.9
4.246	10.9	20.2	31.1	56.0	-24.9
2.534	10.9	20.1	31.0	56.0	-25.0
3.396	10.8	20.2	31.0	56.0	-25.0
3.679	10.8	20.2	31.0	56.0	-25.0
4.168	10.8	20.2	31.0	56.0	-25.0
1.142	10.8	20.1	30.9	56.0	-25.1
4.959	10.7	20.2	30.9	56.0	-25.1
3.112	10.7	20.2	30.9	56.0	-25.1
0.594	10.7	20.1	30.8	56.0	-25.2
1.224	10.7	20.1	30.8	56.0	-25.2
1.661	10.7	20.1	30.8	56.0	-25.2
1.993	10.7	20.1	30.8	56.0	-25.2
2.388	10.7	20.1	30.8	56.0	-25.2
3.206	10.6	20.2	30.8	56.0	-25.2
3.545	10.6	20.2	30.8	56.0	-25.2
4.817	10.6	20.2	30.8	56.0	-25.2
2.258	10.6	20.1	30.7	56.0	-25.3
0.672	10.5	20.1	30.6	56.0	-25.4
1.933	10.5	20.1	30.6	56.0	-25.4
2.493	10.5	20.1	30.6	56.0	-25.4
4.026	10.4	20.2	30.6	56.0	-25.4
1.833	10.4	20.1	30.5	56.0	-25.5
3.940	10.3	20.2	30.5	56.0	-25.5
4.082	10.3	20.2	30.5	56.0	-25.5
0.937	10.3	20.1	30.4	56.0	-25.6
3.825	10.2	20.2	30.4	56.0	-25.6

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
0.534	11.3	20.1	31.4	46.0	-14.6
1.012	11.3	20.1	31.4	46.0	-14.6
3.504	11.2	20.2	31.4	46.0	-14.6
4.306	11.2	20.2	31.4	46.0	-14.6
4.612	11.2	20.2	31.4	46.0	-14.6
4.694	11.2	20.2	31.4	46.0	-14.6
1.072	11.2	20.1	31.3	46.0	-14.7
4.758	11.1	20.2	31.3	46.0	-14.7
1.598	11.0	20.1	31.1	46.0	-14.9
2.769	11.0	20.1	31.1	46.0	-14.9
3.332	10.9	20.2	31.1	46.0	-14.9
3.358	10.9	20.2	31.1	46.0	-14.9
3.459	10.9	20.2	31.1	46.0	-14.9
4.246	10.9	20.2	31.1	46.0	-14.9
2.534	10.9	20.1	31.0	46.0	-15.0
3.396	10.8	20.2	31.0	46.0	-15.0
3.679	10.8	20.2	31.0	46.0	-15.0
4.168	10.8	20.2	31.0	46.0	-15.0
1.142	10.8	20.1	30.9	46.0	-15.1
4.959	10.7	20.2	30.9	46.0	-15.1
3.112	10.7	20.2	30.9	46.0	-15.1
0.594	10.7	20.1	30.8	46.0	-15.2
1.224	10.7	20.1	30.8	46.0	-15.2
1.661	10.7	20.1	30.8	46.0	-15.2
1.993	10.7	20.1	30.8	46.0	-15.2
2.388	10.7	20.1	30.8	46.0	-15.2
3.206	10.6	20.2	30.8	46.0	-15.2
3.545	10.6	20.2	30.8	46.0	-15.2
4.817	10.6	20.2	30.8	46.0	-15.2
2.258	10.6	20.1	30.7	46.0	-15.3
0.672	10.5	20.1	30.6	46.0	-15.4
1.933	10.5	20.1	30.6	46.0	-15.4
2.493	10.5	20.1	30.6	46.0	-15.4
4.026	10.4	20.2	30.6	46.0	-15.4
1.833	10.4	20.1	30.5	46.0	-15.5
3.940	10.3	20.2	30.5	46.0	-15.5
4.082	10.3	20.2	30.5	46.0	-15.5
0.937	10.3	20.1	30.4	46.0	-15.6
3.825	10.2	20.2	30.4	46.0	-15.6

Work Order:	GLBC0139	Date:	06/27/14	
Project:	None	Temperature:	24.1 °C	
Job Site:	OC06	Humidity:	50.3% RH	
Serial Number:	1047-19	Barometric Pres.:	1011 mbar	
		Tested by:		Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Transmitting Mid Channel - 2440 MHz			
Deviations:	None			
Comments:	None			

Test Specifications				Test Method			
FCC 15.207:2014				ANSI C63.10:2009			
Run #	3	Line:	High Line	Ext. Attenuation:	20	Results	Pass



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
3.437	12.8	20.2	33.0	56.0	-23.0
0.523	12.0	20.1	32.1	56.0	-23.9
4.478	11.9	20.2	32.1	56.0	-23.9
1.295	11.6	20.1	31.7	56.0	-24.3
1.154	11.5	20.1	31.6	56.0	-24.4
4.370	11.4	20.2	31.6	56.0	-24.4
1.336	11.4	20.1	31.5	56.0	-24.5

Peak Data - vs - Average Limit

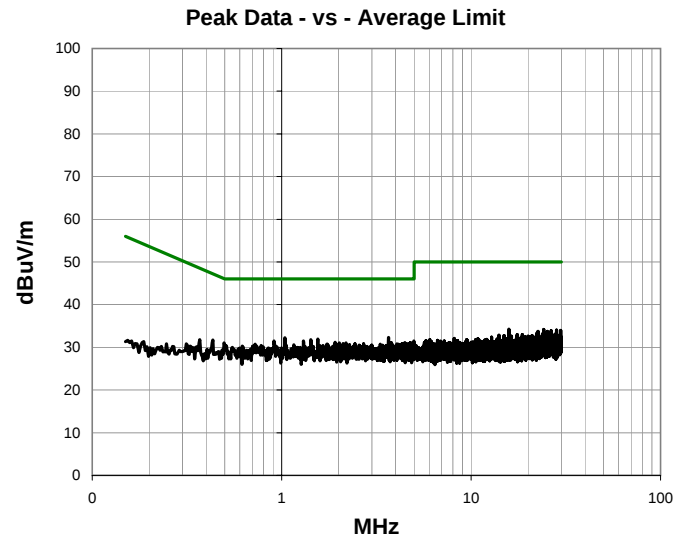
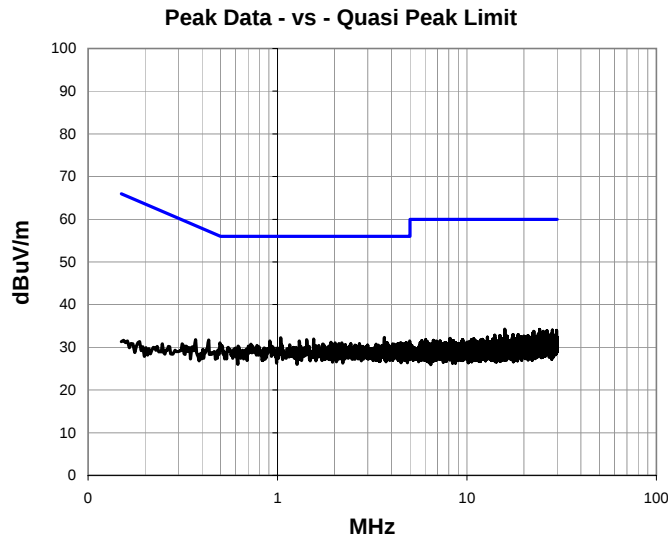
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
3.437	12.8	20.2	33.0	46.0	-13.0
0.523	12.0	20.1	32.1	46.0	-13.9
4.478	11.9	20.2	32.1	46.0	-13.9
1.295	11.6	20.1	31.7	46.0	-14.3
1.154	11.5	20.1	31.6	46.0	-14.4
4.370	11.4	20.2	31.6	46.0	-14.4
1.336	11.4	20.1	31.5	46.0	-14.5

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
3.194	11.3	20.2	31.5	56.0	-24.5
3.776	11.2	20.2	31.4	56.0	-24.6
4.161	11.2	20.2	31.4	56.0	-24.6
1.273	11.2	20.1	31.3	56.0	-24.7
2.411	11.2	20.1	31.3	56.0	-24.7
0.807	11.1	20.1	31.2	56.0	-24.8
1.877	11.1	20.1	31.2	56.0	-24.8
2.262	11.1	20.1	31.2	56.0	-24.8
2.478	11.1	20.1	31.2	56.0	-24.8
3.497	11.0	20.2	31.2	56.0	-24.8
4.724	11.0	20.2	31.2	56.0	-24.8
1.799	11.0	20.1	31.1	56.0	-24.9
3.952	10.8	20.2	31.0	56.0	-25.0
4.325	10.8	20.2	31.0	56.0	-25.0
4.787	10.8	20.2	31.0	56.0	-25.0
2.862	10.8	20.1	30.9	56.0	-25.1
0.769	10.8	20.1	30.9	56.0	-25.1
0.848	10.8	20.1	30.9	56.0	-25.1
0.937	10.8	20.1	30.9	56.0	-25.1
2.034	10.8	20.1	30.9	56.0	-25.1
2.374	10.8	20.1	30.9	56.0	-25.1
3.907	10.7	20.2	30.9	56.0	-25.1
4.619	10.7	20.2	30.9	56.0	-25.1
1.407	10.7	20.1	30.8	56.0	-25.2
1.952	10.7	20.1	30.8	56.0	-25.2
3.989	10.6	20.2	30.8	56.0	-25.2
4.825	10.6	20.2	30.8	56.0	-25.2
1.202	10.6	20.1	30.7	56.0	-25.3
1.866	10.6	20.1	30.7	56.0	-25.3
1.997	10.6	20.1	30.7	56.0	-25.3
1.049	10.5	20.1	30.6	56.0	-25.4
1.564	10.5	20.1	30.6	56.0	-25.4
2.676	10.5	20.1	30.6	56.0	-25.4
2.780	10.5	20.1	30.6	56.0	-25.4
3.422	10.4	20.2	30.6	56.0	-25.4
3.094	10.4	20.2	30.6	56.0	-25.4
1.922	10.4	20.1	30.5	56.0	-25.5
2.713	10.4	20.1	30.5	56.0	-25.5
3.056	10.3	20.2	30.5	56.0	-25.5

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
3.194	11.3	20.2	31.5	46.0	-14.5
3.776	11.2	20.2	31.4	46.0	-14.6
4.161	11.2	20.2	31.4	46.0	-14.6
1.273	11.2	20.1	31.3	46.0	-14.7
2.411	11.2	20.1	31.3	46.0	-14.7
0.807	11.1	20.1	31.2	46.0	-14.8
1.877	11.1	20.1	31.2	46.0	-14.8
2.262	11.1	20.1	31.2	46.0	-14.8
2.478	11.1	20.1	31.2	46.0	-14.8
3.497	11.0	20.2	31.2	46.0	-14.8
4.724	11.0	20.2	31.2	46.0	-14.8
1.799	11.0	20.1	31.1	46.0	-14.9
3.952	10.8	20.2	31.0	46.0	-15.0
4.325	10.8	20.2	31.0	46.0	-15.0
4.787	10.8	20.2	31.0	46.0	-15.0
2.862	10.8	20.1	30.9	46.0	-15.1
0.769	10.8	20.1	30.9	46.0	-15.1
0.848	10.8	20.1	30.9	46.0	-15.1
0.937	10.8	20.1	30.9	46.0	-15.1
2.034	10.8	20.1	30.9	46.0	-15.1
2.374	10.8	20.1	30.9	46.0	-15.1
3.907	10.7	20.2	30.9	46.0	-15.1
4.619	10.7	20.2	30.9	46.0	-15.1
1.407	10.7	20.1	30.8	46.0	-15.2
1.952	10.7	20.1	30.8	46.0	-15.2
3.989	10.6	20.2	30.8	46.0	-15.2
4.825	10.6	20.2	30.8	46.0	-15.2
1.202	10.6	20.1	30.7	46.0	-15.3
1.866	10.6	20.1	30.7	46.0	-15.3
1.997	10.6	20.1	30.7	46.0	-15.3
1.049	10.5	20.1	30.6	46.0	-15.4
1.564	10.5	20.1	30.6	46.0	-15.4
2.676	10.5	20.1	30.6	46.0	-15.4
2.780	10.5	20.1	30.6	46.0	-15.4
3.422	10.4	20.2	30.6	46.0	-15.4
3.094	10.4	20.2	30.6	46.0	-15.4
1.922	10.4	20.1	30.5	46.0	-15.5
2.713	10.4	20.1	30.5	46.0	-15.5
3.056	10.3	20.2	30.5	46.0	-15.5

Work Order:	GLBC0139	Date:	06/27/14	
Project:	None	Temperature:	24.1 °C	
Job Site:	OC06	Humidity:	50.3% RH	
Serial Number:	1047-19	Barometric Pres.:	1011 mbar	Tested by: Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Transmitting Mid Channel - 2440 MHz			
Deviations:	None			
Comments:	None			

Test Specifications				Test Method			
FCC 15.207:2014				ANSI C63.10:2009			



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
3.661	12.1	20.2	32.3	56.0	-23.7
1.042	12.1	20.1	32.2	56.0	-23.8
1.549	11.8	20.1	31.9	56.0	-24.1
1.426	11.7	20.1	31.8	56.0	-24.2
0.911	11.4	20.1	31.5	56.0	-24.5
1.303	11.4	20.1	31.5	56.0	-24.5
4.993	11.3	20.2	31.5	56.0	-24.5

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
3.661	12.1	20.2	32.3	46.0	-13.7
1.042	12.1	20.1	32.2	46.0	-13.8
1.549	11.8	20.1	31.9	46.0	-14.1
1.426	11.7	20.1	31.8	46.0	-14.2
0.911	11.4	20.1	31.5	46.0	-14.5
1.303	11.4	20.1	31.5	46.0	-14.5
4.993	11.3	20.2	31.5	46.0	-14.5

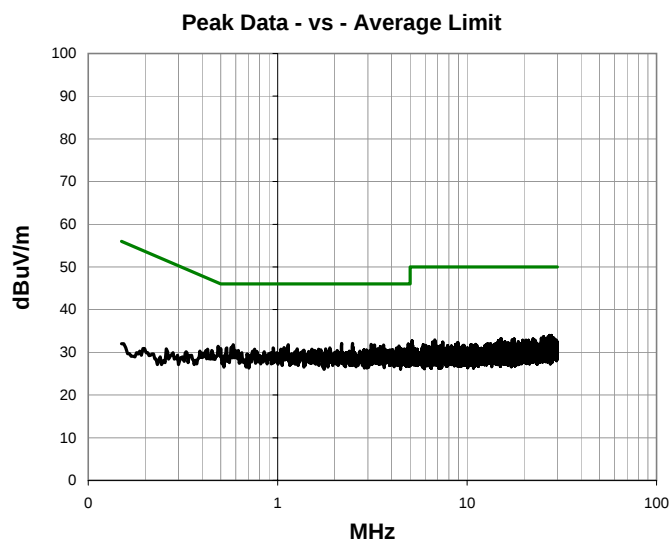
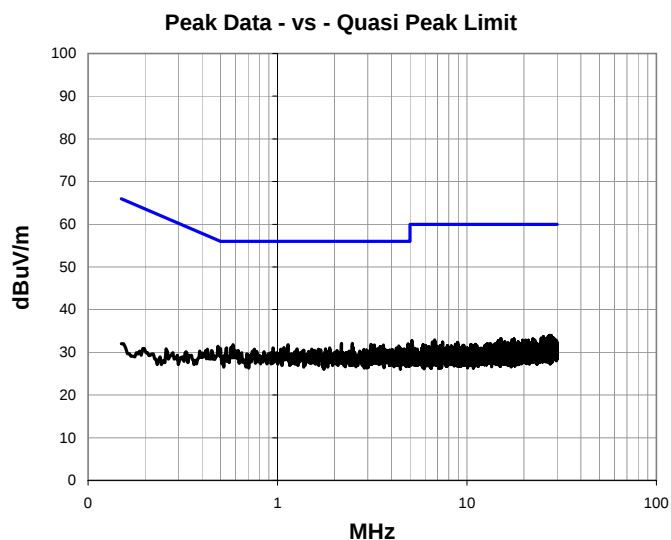
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
1.918	11.1	20.1	31.2	56.0	-24.8
3.780	10.9	20.2	31.1	56.0	-24.9
4.478	10.9	20.2	31.1	56.0	-24.9
4.776	10.9	20.2	31.1	56.0	-24.9
2.015	10.9	20.1	31.0	56.0	-25.0
2.183	10.9	20.1	31.0	56.0	-25.0
0.497	10.9	20.1	31.0	56.1	-25.1
2.109	10.8	20.1	30.9	56.0	-25.1
2.437	10.7	20.1	30.8	56.0	-25.2
2.706	10.7	20.1	30.8	56.0	-25.2
4.049	10.6	20.2	30.8	56.0	-25.2
4.321	10.6	20.2	30.8	56.0	-25.2
4.362	10.6	20.2	30.8	56.0	-25.2
4.601	10.6	20.2	30.8	56.0	-25.2
4.892	10.6	20.2	30.8	56.0	-25.2
0.725	10.6	20.1	30.7	56.0	-25.3
1.728	10.6	20.1	30.7	56.0	-25.3
1.747	10.6	20.1	30.7	56.0	-25.3
3.317	10.5	20.2	30.7	56.0	-25.3
4.142	10.5	20.2	30.7	56.0	-25.3
1.161	10.5	20.1	30.6	56.0	-25.4
2.280	10.5	20.1	30.6	56.0	-25.4
2.989	10.4	20.1	30.5	56.0	-25.5
0.434	11.6	20.1	31.7	57.2	-25.5
2.568	10.4	20.1	30.5	56.0	-25.5
3.411	10.3	20.2	30.5	56.0	-25.5
3.836	10.3	20.2	30.5	56.0	-25.5
4.209	10.3	20.2	30.5	56.0	-25.5
4.866	10.3	20.2	30.5	56.0	-25.5
1.654	10.3	20.1	30.4	56.0	-25.6
4.437	10.2	20.2	30.4	56.0	-25.6
0.620	10.2	20.1	30.3	56.0	-25.7
3.713	10.1	20.2	30.3	56.0	-25.7
15.853	13.4	20.8	34.2	60.0	-25.8
24.210	12.8	21.4	34.2	60.0	-25.8
4.739	10.0	20.2	30.2	56.0	-25.8
28.250	12.3	21.7	34.0	60.0	-26.0
29.679	12.1	21.9	34.0	60.0	-26.0
26.418	12.3	21.6	33.9	60.0	-26.1

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
1.918	11.1	20.1	31.2	46.0	-14.8
3.780	10.9	20.2	31.1	46.0	-14.9
4.478	10.9	20.2	31.1	46.0	-14.9
4.776	10.9	20.2	31.1	46.0	-14.9
2.015	10.9	20.1	31.0	46.0	-15.0
2.183	10.9	20.1	31.0	46.0	-15.0
0.497	10.9	20.1	31.0	46.1	-15.1
2.109	10.8	20.1	30.9	46.0	-15.1
2.437	10.7	20.1	30.8	46.0	-15.2
2.706	10.7	20.1	30.8	46.0	-15.2
4.049	10.6	20.2	30.8	46.0	-15.2
4.321	10.6	20.2	30.8	46.0	-15.2
4.362	10.6	20.2	30.8	46.0	-15.2
4.601	10.6	20.2	30.8	46.0	-15.2
4.892	10.6	20.2	30.8	46.0	-15.2
0.725	10.6	20.1	30.7	46.0	-15.3
1.728	10.6	20.1	30.7	46.0	-15.3
1.747	10.6	20.1	30.7	46.0	-15.3
3.317	10.5	20.2	30.7	46.0	-15.3
4.142	10.5	20.2	30.7	46.0	-15.3
1.161	10.5	20.1	30.6	46.0	-15.4
2.280	10.5	20.1	30.6	46.0	-15.4
2.989	10.4	20.1	30.5	46.0	-15.5
0.434	11.6	20.1	31.7	47.2	-15.5
2.568	10.4	20.1	30.5	46.0	-15.5
3.411	10.3	20.2	30.5	46.0	-15.5
3.836	10.3	20.2	30.5	46.0	-15.5
4.209	10.3	20.2	30.5	46.0	-15.5
4.866	10.3	20.2	30.5	46.0	-15.5
1.654	10.3	20.1	30.4	46.0	-15.6
4.437	10.2	20.2	30.4	46.0	-15.6
0.620	10.2	20.1	30.3	46.0	-15.7
3.713	10.1	20.2	30.3	46.0	-15.7
15.853	13.4	20.8	34.2	50.0	-15.8
24.210	12.8	21.4	34.2	50.0	-15.8
4.739	10.0	20.2	30.2	46.0	-15.8
28.250	12.3	21.7	34.0	50.0	-16.0
29.679	12.1	21.9	34.0	50.0	-16.0
26.418	12.3	21.6	33.9	50.0	-16.1

Work Order:	GLBC0139	Date:	06/27/14	
Project:	None	Temperature:	24.1 °C	
Job Site:	OC06	Humidity:	50.3% RH	
Serial Number:	1047-19	Barometric Pres.:	1011 mbar	
		Tested by:		Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Transmitting High Channel - 2480 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.207:2014	ANSI C63.10:2009

Run #	5	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
2.176	12.0	20.1	32.1	56.0	-23.9
2.482	12.0	20.1	32.1	56.0	-23.9
4.884	11.7	20.2	31.9	56.0	-24.1
3.116	11.7	20.2	31.9	56.0	-24.1
0.583	11.7	20.1	31.8	56.0	-24.2
1.135	11.7	20.1	31.8	56.0	-24.2
3.243	11.5	20.2	31.7	56.0	-24.3

Peak Data - vs - Average Limit

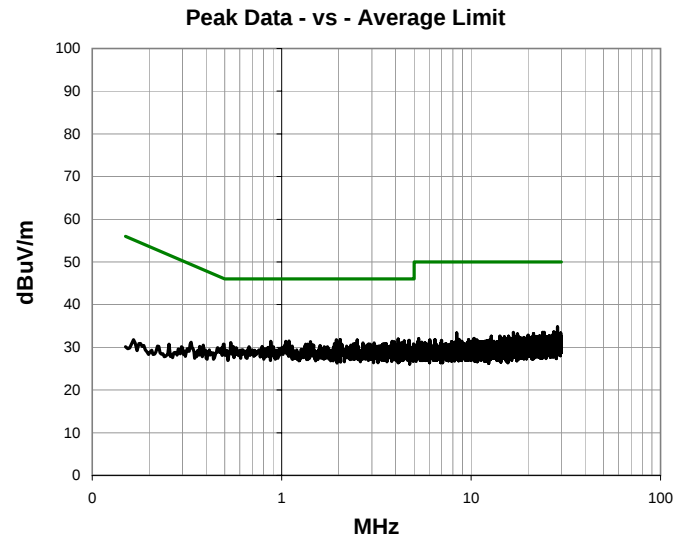
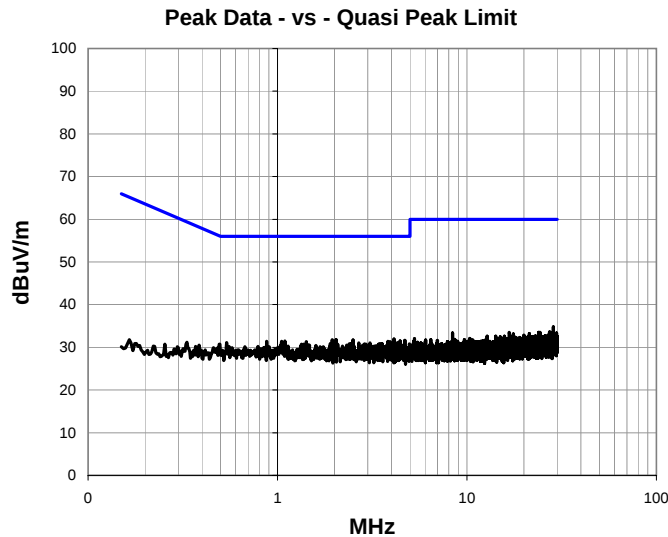
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
2.176	12.0	20.1	32.1	46.0	-13.9
2.482	12.0	20.1	32.1	46.0	-13.9
4.884	11.7	20.2	31.9	46.0	-14.1
3.116	11.7	20.2	31.9	46.0	-14.1
0.583	11.7	20.1	31.8	46.0	-14.2
1.135	11.7	20.1	31.8	46.0	-14.2
3.243	11.5	20.2	31.7	46.0	-14.3

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
3.620	11.5	20.2	31.7	56.0	-24.3
4.373	11.3	20.2	31.5	56.0	-24.5
3.485	11.1	20.2	31.3	56.0	-24.7
0.486	11.3	20.1	31.4	56.2	-24.8
2.504	11.0	20.1	31.1	56.0	-24.9
0.538	10.9	20.1	31.0	56.0	-25.0
0.948	10.9	20.1	31.0	56.0	-25.0
1.889	10.9	20.1	31.0	56.0	-25.0
4.258	10.8	20.2	31.0	56.0	-25.0
4.239	10.7	20.2	30.9	56.0	-25.1
1.266	10.7	20.1	30.8	56.0	-25.2
1.795	10.7	20.1	30.8	56.0	-25.2
3.366	10.6	20.2	30.8	56.0	-25.2
4.310	10.6	20.2	30.8	56.0	-25.2
4.444	10.6	20.2	30.8	56.0	-25.2
4.459	10.6	20.2	30.8	56.0	-25.2
4.511	10.6	20.2	30.8	56.0	-25.2
4.657	10.6	20.2	30.8	56.0	-25.2
0.754	10.6	20.1	30.7	56.0	-25.3
1.042	10.6	20.1	30.7	56.0	-25.3
1.515	10.6	20.1	30.7	56.0	-25.3
1.642	10.6	20.1	30.7	56.0	-25.3
3.702	10.5	20.2	30.7	56.0	-25.3
2.859	10.5	20.1	30.6	56.0	-25.4
1.691	10.5	20.1	30.6	56.0	-25.4
3.638	10.4	20.2	30.6	56.0	-25.4
4.041	10.4	20.2	30.6	56.0	-25.4
2.948	10.4	20.1	30.5	56.0	-25.5
1.374	10.4	20.1	30.5	56.0	-25.5
3.918	10.3	20.2	30.5	56.0	-25.5
2.060	10.3	20.1	30.4	56.0	-25.6
3.153	10.2	20.2	30.4	56.0	-25.6
3.049	10.2	20.2	30.4	56.0	-25.6
2.392	10.2	20.1	30.3	56.0	-25.7
2.713	10.2	20.1	30.3	56.0	-25.7
4.728	10.1	20.2	30.3	56.0	-25.7
2.426	10.0	20.1	30.1	56.0	-25.9
27.788	12.3	21.7	34.0	60.0	-26.0
27.172	12.3	21.7	34.0	60.0	-26.0

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
3.620	11.5	20.2	31.7	46.0	-14.3
4.373	11.3	20.2	31.5	46.0	-14.5
3.485	11.1	20.2	31.3	46.0	-14.7
0.486	11.3	20.1	31.4	46.2	-14.8
2.504	11.0	20.1	31.1	46.0	-14.9
0.538	10.9	20.1	31.0	46.0	-15.0
0.948	10.9	20.1	31.0	46.0	-15.0
1.889	10.9	20.1	31.0	46.0	-15.0
4.258	10.8	20.2	31.0	46.0	-15.0
4.239	10.7	20.2	30.9	46.0	-15.1
1.266	10.7	20.1	30.8	46.0	-15.2
1.795	10.7	20.1	30.8	46.0	-15.2
3.366	10.6	20.2	30.8	46.0	-15.2
4.310	10.6	20.2	30.8	46.0	-15.2
4.444	10.6	20.2	30.8	46.0	-15.2
4.459	10.6	20.2	30.8	46.0	-15.2
4.511	10.6	20.2	30.8	46.0	-15.2
4.657	10.6	20.2	30.8	46.0	-15.2
0.754	10.6	20.1	30.7	46.0	-15.3
1.042	10.6	20.1	30.7	46.0	-15.3
1.515	10.6	20.1	30.7	46.0	-15.3
1.642	10.6	20.1	30.7	46.0	-15.3
3.702	10.5	20.2	30.7	46.0	-15.3
2.859	10.5	20.1	30.6	46.0	-15.4
1.691	10.5	20.1	30.6	46.0	-15.4
3.638	10.4	20.2	30.6	46.0	-15.4
4.041	10.4	20.2	30.6	46.0	-15.4
2.948	10.4	20.1	30.5	46.0	-15.5
1.374	10.4	20.1	30.5	46.0	-15.5
3.918	10.3	20.2	30.5	46.0	-15.5
2.060	10.3	20.1	30.4	46.0	-15.6
3.153	10.2	20.2	30.4	46.0	-15.6
3.049	10.2	20.2	30.4	46.0	-15.6
2.392	10.2	20.1	30.3	46.0	-15.7
2.713	10.2	20.1	30.3	46.0	-15.7
4.728	10.1	20.2	30.3	46.0	-15.7
2.426	10.0	20.1	30.1	46.0	-15.9
27.788	12.3	21.7	34.0	50.0	-16.0
27.172	12.3	21.7	34.0	50.0	-16.0

Work Order:	GLBC0139	Date:	06/27/14		
Project:	None	Temperature:	24.1 °C		
Job Site:	OC06	Humidity:	50.3% RH		
Serial Number:	1047-19	Barometric Pres.:	1011 mbar	Tested by:	Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC				
Configuration:	1				
Customer:	Shanghai Qiangling Electronic Co Ltd				
Attendees:	Leon Kogan, Global Certification Technologies, Inc.				
EUT Power:	120VAC/60Hz				
Operating Mode:	Continuously Transmitting High Channel - 2480 MHz				
Deviations:	None				
Comments:	None				

Test Specifications				Test Method			
FCC 15.207:2014				ANSI C63.10:2009			



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
4.116	11.7	20.2	31.9	56.0	-24.1
1.945	11.7	20.1	31.8	56.0	-24.2
2.038	11.7	20.1	31.8	56.0	-24.2
2.504	11.6	20.1	31.7	56.0	-24.3
4.705	11.4	20.2	31.6	56.0	-24.4
1.094	11.4	20.1	31.5	56.0	-24.5
4.440	11.3	20.2	31.5	56.0	-24.5

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
4.116	11.7	20.2	31.9	46.0	-14.1
1.945	11.7	20.1	31.8	46.0	-14.2
2.038	11.7	20.1	31.8	46.0	-14.2
2.504	11.6	20.1	31.7	46.0	-14.3
4.705	11.4	20.2	31.6	46.0	-14.4
1.094	11.4	20.1	31.5	46.0	-14.5
4.440	11.3	20.2	31.5	46.0	-14.5

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
0.878	11.3	20.1	31.4	56.0	-24.6
1.053	11.3	20.1	31.4	56.0	-24.6
3.832	11.2	20.2	31.4	56.0	-24.6
1.418	11.2	20.1	31.3	56.0	-24.7
3.937	11.1	20.2	31.3	56.0	-24.7
0.538	11.0	20.1	31.1	56.0	-24.9
4.358	10.9	20.2	31.1	56.0	-24.9
3.075	10.9	20.2	31.1	56.0	-24.9
2.691	10.9	20.1	31.0	56.0	-25.0
4.261	10.8	20.2	31.0	56.0	-25.0
1.903	10.8	20.1	30.9	56.0	-25.1
3.489	10.7	20.2	30.9	56.0	-25.1
2.877	10.7	20.1	30.8	56.0	-25.2
2.388	10.7	20.1	30.8	56.0	-25.2
2.437	10.7	20.1	30.8	56.0	-25.2
3.567	10.6	20.2	30.8	56.0	-25.2
4.974	10.6	20.2	30.8	56.0	-25.2
28.556	13.0	21.8	34.8	60.0	-25.2
2.933	10.6	20.1	30.7	56.0	-25.3
1.336	10.6	20.1	30.7	56.0	-25.3
1.370	10.6	20.1	30.7	56.0	-25.3
2.079	10.6	20.1	30.7	56.0	-25.3
3.418	10.5	20.2	30.7	56.0	-25.3
4.209	10.4	20.2	30.6	56.0	-25.4
0.493	10.6	20.1	30.7	56.1	-25.4
2.318	10.4	20.1	30.5	56.0	-25.5
2.818	10.4	20.1	30.5	56.0	-25.5
4.534	10.3	20.2	30.5	56.0	-25.5
4.672	10.3	20.2	30.5	56.0	-25.5
1.598	10.3	20.1	30.4	56.0	-25.6
3.773	10.2	20.2	30.4	56.0	-25.6
1.139	10.2	20.1	30.3	56.0	-25.7
2.198	10.2	20.1	30.3	56.0	-25.7
3.243	10.1	20.2	30.3	56.0	-25.7
4.138	10.1	20.2	30.3	56.0	-25.7
2.541	10.1	20.1	30.2	56.0	-25.8
4.750	9.9	20.2	30.1	56.0	-25.9
27.303	11.9	21.7	33.6	60.0	-26.4
16.741	12.6	20.9	33.5	60.0	-26.5

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
0.878	11.3	20.1	31.4	46.0	-14.6
1.053	11.3	20.1	31.4	46.0	-14.6
3.832	11.2	20.2	31.4	46.0	-14.6
1.418	11.2	20.1	31.3	46.0	-14.7
3.937	11.1	20.2	31.3	46.0	-14.7
0.538	11.0	20.1	31.1	46.0	-14.9
4.358	10.9	20.2	31.1	46.0	-14.9
3.075	10.9	20.2	31.1	46.0	-14.9
2.691	10.9	20.1	31.0	46.0	-15.0
4.261	10.8	20.2	31.0	46.0	-15.0
1.903	10.8	20.1	30.9	46.0	-15.1
3.489	10.7	20.2	30.9	46.0	-15.1
2.877	10.7	20.1	30.8	46.0	-15.2
2.388	10.7	20.1	30.8	46.0	-15.2
2.437	10.7	20.1	30.8	46.0	-15.2
3.567	10.6	20.2	30.8	46.0	-15.2
4.974	10.6	20.2	30.8	46.0	-15.2
28.556	13.0	21.8	34.8	50.0	-15.2
2.933	10.6	20.1	30.7	46.0	-15.3
1.336	10.6	20.1	30.7	46.0	-15.3
1.370	10.6	20.1	30.7	46.0	-15.3
2.079	10.6	20.1	30.7	46.0	-15.3
3.418	10.5	20.2	30.7	46.0	-15.3
4.209	10.4	20.2	30.6	46.0	-15.4
0.493	10.6	20.1	30.7	46.1	-15.4
2.318	10.4	20.1	30.5	46.0	-15.5
2.818	10.4	20.1	30.5	46.0	-15.5
4.534	10.3	20.2	30.5	46.0	-15.5
4.672	10.3	20.2	30.5	46.0	-15.5
1.598	10.3	20.1	30.4	46.0	-15.6
3.773	10.2	20.2	30.4	46.0	-15.6
1.139	10.2	20.1	30.3	46.0	-15.7
2.198	10.2	20.1	30.3	46.0	-15.7
3.243	10.1	20.2	30.3	46.0	-15.7
4.138	10.1	20.2	30.3	46.0	-15.7
2.541	10.1	20.1	30.2	46.0	-15.8
4.750	9.9	20.2	30.1	46.0	-15.9
27.303	11.9	21.7	33.6	50.0	-16.4
16.741	12.6	20.9	33.5	50.0	-16.5

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Continuously Receiving, Low Channel 11 - 2405 MHz
Continuously Receiving, Mid Channel 18 - 2440 MHz
Continuously Receiving, High Channel 26 - 2480 MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

CONFIGURATIONS INVESTIGATED

GLBC0139 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency 1 GHz Stop Frequency 26 GHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Coaxicom	66702 3910AF-20	TKI	4/28/2014	12 mo
HP Filter	Micro-Tronics	HPM50111	HFM	4/2/2012	36 mo
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVQ	1/10/2014	12 mo
Antenna, Horn	ETS	3160-10	AIX	NCR	0 mo
Cable	ESM Cable Corp.	KMKM-72	OC1	1/9/2014	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	1/10/2014	12 mo
Antenna, Horn	EMCO	3160-09	AHN	NCR	0 mo
OC floating Cable	N/A	18-26GHz RE Cables	OCK	2/6/2014	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	10/24/2013	12 mo
Antenna, Horn	ETS	3160-08	AHT	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	10/24/2013	12 mo
Antenna, Horn	ETS	3160-07	AHR	NCR	0 mo
OC 10 Cables	N/A	8-18GHz RE Cables	OCO	10/24/2013	12 mo
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	6/17/2014	12 mo
Antenna, Horn	EMCO	3115	AHB	3/10/2014	24 mo
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	6/17/2014	12 mo
Spectrum Analyzer	Agilent	E4446A	AAV	2/22/2013	24 mo

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

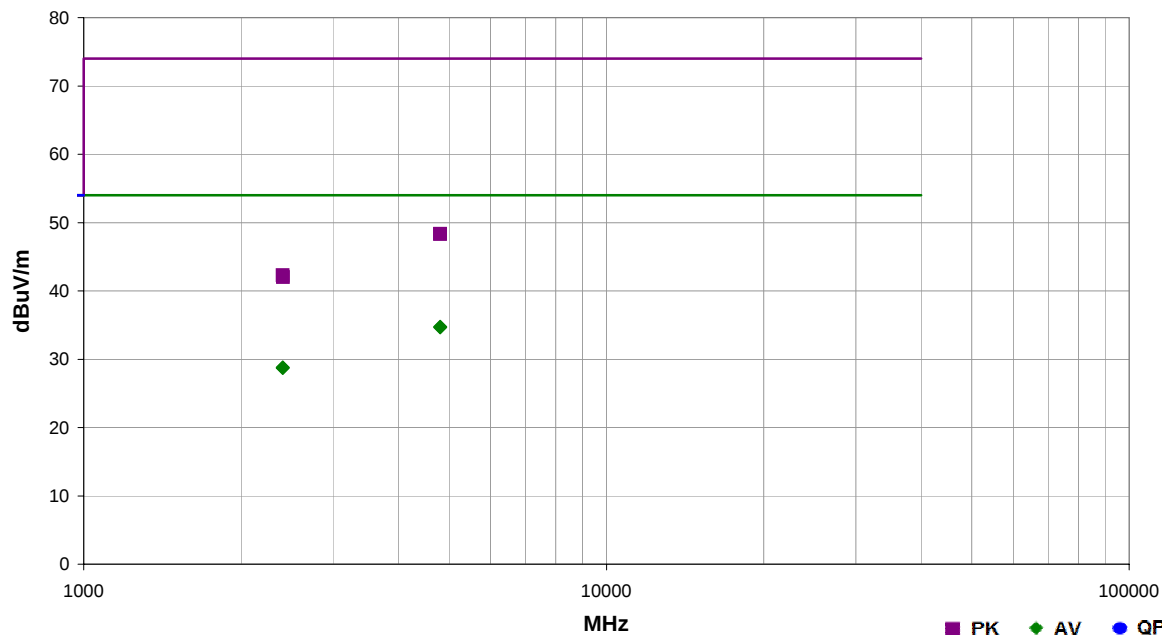
While the FCC specifically exempts receivers operating above 960 MHz from verification, the data is included for informational purposes at the clients request.

RECEIVER SPURIOUS EMISSIONS

Work Order:	GLBC0139	Date:	06/26/14	
Project:	None	Temperature:	24 °C	
Job Site:	OC10	Humidity:	49.7% RH	
Serial Number:	1047-19	Barometric Pres.:	1015 mbar	
		Tested by:		Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Receiving, Low Channel 11 - 2405 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	19	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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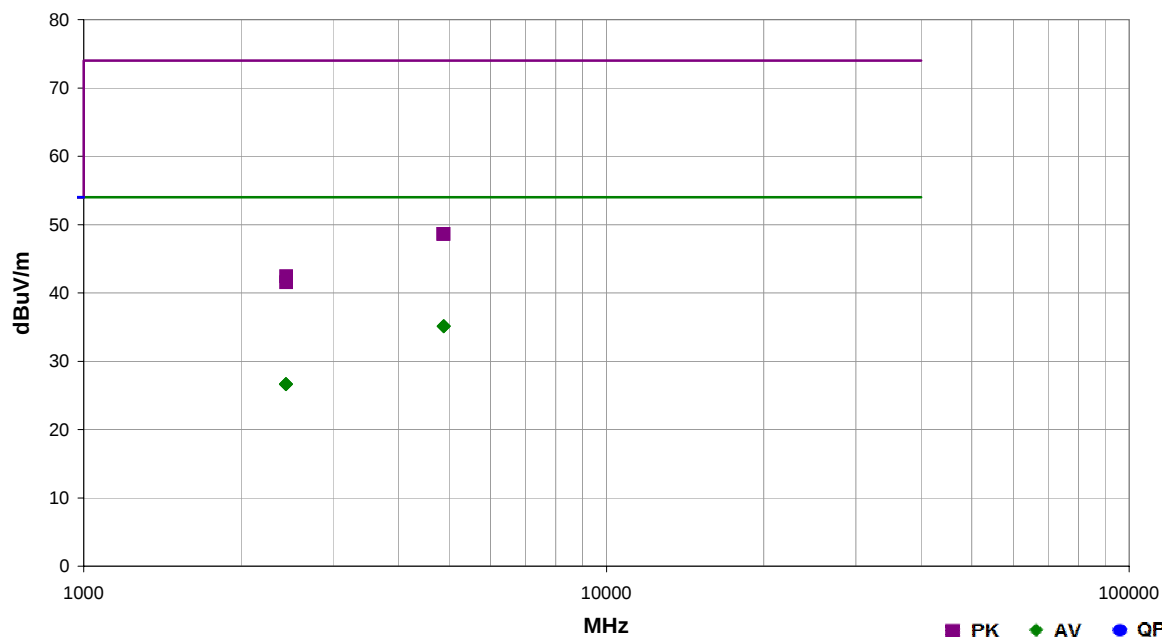
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4808.570	24.6	10.1	1.2	61.0	3.0	0.0	Vert	AV	0.0	34.7	54.0	-19.3	EUT Horiz, Low Ch
4809.315	24.5	10.2	1.2	125.0	3.0	0.0	Horz	AV	0.0	34.7	54.0	-19.3	EUT Horiz, Low Ch
2403.500	25.7	3.1	1.2	214.0	3.0	0.0	Vert	AV	0.0	28.8	54.0	-25.2	EUT Horiz, Low Ch
2403.680	25.6	3.1	1.4	101.0	3.0	0.0	Horz	AV	0.0	28.7	54.0	-25.3	EUT Horiz, Low Ch
4810.875	38.2	10.2	1.2	125.0	3.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	EUT Horiz, Low Ch
4809.350	38.2	10.2	1.2	61.0	3.0	0.0	Vert	PK	0.0	48.4	74.0	-25.6	EUT Horiz, Low Ch
2403.570	39.2	3.1	1.4	101.0	3.0	0.0	Horz	PK	0.0	42.3	74.0	-31.7	EUT Horiz, Low Ch
2406.470	38.9	3.1	1.2	214.0	3.0	0.0	Vert	PK	0.0	42.0	74.0	-32.0	EUT Horiz, Low Ch

RECEIVER SPURIOUS EMISSIONS

Work Order:	GLBC0139	Date:	06/26/14	
Project:	None	Temperature:	24 °C	
Job Site:	OC10	Humidity:	49.7% RH	
Serial Number:	1047-19	Barometric Pres.:	1015 mbar	
		Tested by:		Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Receiving, Mid Channel 18 - 2440 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	24	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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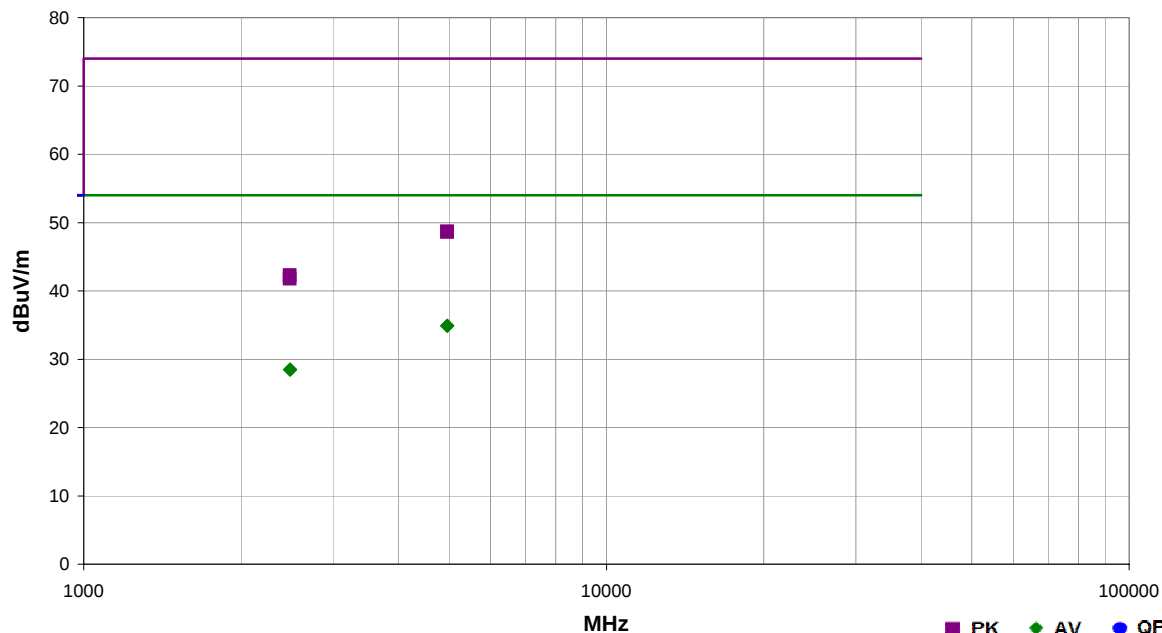
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4881.345	24.7	10.4	1.2	322.0	3.0	0.0	Vert	AV	0.0	35.1	54.0	-18.9	EUT Horiz, Mid Ch
4880.215	24.7	10.4	1.2	259.0	3.0	0.0	Horz	AV	0.0	35.1	54.0	-18.9	EUT Horiz, Mid Ch
4880.760	38.2	10.4	1.2	259.0	3.0	0.0	Horz	PK	0.0	48.6	74.0	-25.4	EUT Horiz, Mid Ch
4879.710	38.2	10.4	1.2	322.0	3.0	0.0	Vert	PK	0.0	48.6	74.0	-25.4	EUT Horiz, Mid Ch
2438.550	23.5	3.1	1.2	248.0	3.0	0.0	Vert	AV	0.0	26.6	54.0	-27.4	EUT Horiz, Mid Ch
2438.500	23.5	3.1	1.2	288.0	3.0	0.0	Horz	AV	0.0	26.6	54.0	-27.4	EUT Horiz, Mid Ch
2441.265	39.3	3.1	1.2	288.0	3.0	0.0	Horz	PK	0.0	42.4	74.0	-31.6	EUT Horiz, Mid Ch
2440.095	38.4	3.1	1.2	248.0	3.0	0.0	Vert	PK	0.0	41.5	74.0	-32.5	EUT Horiz, Mid Ch

RECEIVER SPURIOUS EMISSIONS

Work Order:	GLBC0139	Date:	06/26/14	
Project:	None	Temperature:	24 °C	
Job Site:	OC10	Humidity:	49.7% RH	
Serial Number:	1047-19	Barometric Pres.:	1015 mbar	
		Tested by:		Johnny Candelas
EUT:	Remote Controlled LED Lamp Model #: CP3817LC			
Configuration:	1			
Customer:	Shanghai Qiangling Electronic Co Ltd			
Attendees:	Leon Kogan, Global Certification Technologies, Inc.			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuously Receiving, High Channel 26 - 2480 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	25	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4958.580	24.2	10.7	1.2	341.0	3.0	0.0	Horz	AV	0.0	34.9	54.0	-19.1	EUT Horiz, High Ch
4958.525	24.2	10.7	1.2	290.0	3.0	0.0	Vert	AV	0.0	34.9	54.0	-19.1	EUT Horiz, High Ch
4958.910	38.0	10.7	1.2	290.0	3.0	0.0	Vert	PK	0.0	48.7	74.0	-25.3	EUT Horiz, High Ch
4961.240	37.9	10.7	1.2	341.0	3.0	0.0	Horz	PK	0.0	48.6	74.0	-25.4	EUT Horiz, High Ch
2481.460	25.3	3.2	1.2	360.0	3.0	0.0	Horz	AV	0.0	28.5	54.0	-25.5	EUT Horiz, High Ch
2481.135	25.3	3.2	1.2	184.0	3.0	0.0	Vert	AV	0.0	28.5	54.0	-25.5	EUT Horiz, High Ch
2480.365	39.1	3.2	1.2	184.0	3.0	0.0	Vert	PK	0.0	42.3	74.0	-31.7	EUT Horiz, High Ch
2480.435	38.6	3.2	1.2	360.0	3.0	0.0	Horz	PK	0.0	41.8	74.0	-32.2	EUT Horiz, High Ch