



Linear LLC

Go!Bridge (2GIG-BRDG1-900)

FCC 15.207:2014

FCC 15.209:2014

FCC 15.247:2014

Report #: 2GIG0021.3



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: May 08, 2014
Linear LLC
Model: GO!Bridge (2GIG-BRDG1-900)

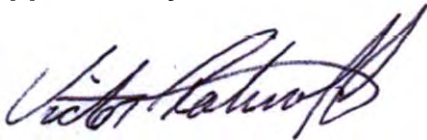
Emissions

Test Description	Specification	Test Method	Pass/Fail
Occupied Bandwidth	FCC 15.247:2014	ANSI C63.10:2009	Pass
Output Power	FCC 15.247:2014	ANSI C63.10:2009	Pass
Band Edge Compliance	FCC 15.247:2014	ANSI C63.10:2009	Pass
Band Edge Compliance-Hopping Mode	FCC 15.247:2014	ANSI C63.10:2009	Pass
Channel Separation	FCC 15.247:2014	ANSI C63.10:2009	Pass
Number of Hopping Frequencies	FCC 15.247:2014	ANSI C63.10:2009	Pass
Dwell Time	FCC 15.247:2014	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.209:2014	ANSI C63.10:2009	Pass
Powerline Conducted Emissions	FCC 15.207:2014	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:



Victor Ratinoff, 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.

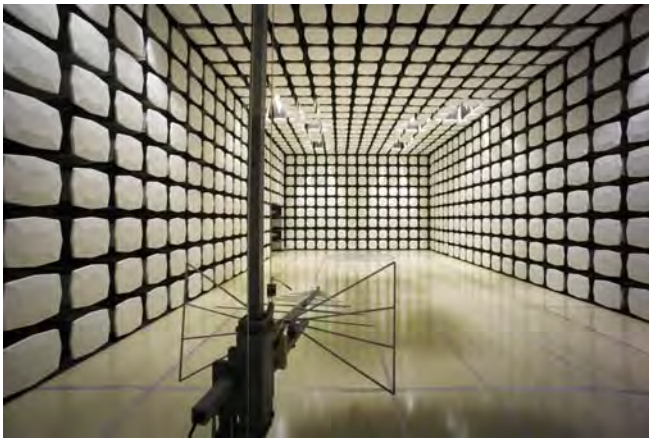
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is listed below. Our measurement 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)	3.80	-3.80
AC Powerline Conducted Emissions (dB)	2.94	-2.94



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





PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Linear LLC
Address:	1950 Camino Vida Roble #150
City, State, Zip:	Carlsbad, CA 92008
Test Requested By:	Verdin J. Orozco
Model:	Go!Bridge (2GIG-BRDG1-900)
First Date of Test:	April 21, 2014
Last Date of Test:	May 08, 2014
Receipt Date of Samples:	April 21, 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):
900 MHz FHSS radio module with 1 antenna(s).
Testing Objective:
To demonstrate compliance to FCC 15.247 requirements.

Configuration 2GIG0021- 1

Software/Firmware Running during test	
Description	Version
PuTTY	0.60

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Wireless Module (TX-RX)	Linear LLC	Go!Bridge (2GIG-BRDG1-900)	15234
Power Supply	Hon Kwang Electric Co	HK-UA-050A100-US	None

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Host Laptop	Lenovo	X131e	X1693704
Host Laptop PS	Lenovo	42T4430	11S42T440Z1ZGWE12C6XR

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	1.8m	No	Wireless Module	Power Supply
Ethernet Cable	No	5.0m	No	Wireless Module	Unterminated

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Configuration 2GIG0021- 2

Software/Firmware Running during test	
Description	Version
Multi-Port UDP Test	2.5.0.0

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Power Supply	Hon Kwang Electric Co	HK-UA-050A100-US	None
Wireless Module (Hopper)	Linear LLC	Go!Bridge (2GIG-BRDG1-900)	15223

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Home Panel	Linear LLC	Go!Control Panel	1351222000040705
Home Panel PS	AB Power Supply	ZB-A140017	None

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Host Laptop	Lenovo	X131e	X1693704
Host Laptop PS	Lenovo	42T4430	11S42T440Z1ZGWE12C6XR
Router	Netgear	GS605 v3	1YG2993T03907
Router PS	Netgear	MT12-Y120100-A1	332-10190-01

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	1.8m	No	Wireless Module	Power Supply
Ethernet Cable	No	5.0m	No	Router	Internet
Ethernet Cable	No	5.0m	No	Router	Wireless Module
AC Cable	No	1.8m	No	Host Laptop PS	AC Mains
DC Cable	No	1.5m	Yes	Host Laptop PS	Host Laptop
DC Cable	No	1.8m	No	Router	Router PS
DC Cable	No	0.5m	No	Home Panel	Home Panel 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	4/21/2014	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.
2	4/21/2014	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.
3	4/21/2014	Powerline Conducted 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.
4	4/22/2014	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	4/22/2014	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.
6	4/22/2014	Band Edge Compliance-Hopping Mode	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	5/8/2014	Channel Separation	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	5/8/2014	Dwell Time	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.
9	5/8/2014	Number of Hopping Frequencies	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

TEST DESCRIPTION

The Duty Cycle was measured for each of the EUT operating modes. The measurement was made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its maximum setting. Using a near field probe connected to the spectrum analyzer and secured to the EUT where the highest amplitude was found.

The Duty Cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and off time.

➤The EUT operates at 100% Duty Cycle.

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
Signal Generator	Agilent	E8257D	TGU	2/1/2012	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a near field probe connected to the spectrum analyzer and secured to the EUT where the highest amplitude was found. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode.



OCCUPIED BANDWIDTH

XMit 2013.08.15
PsaTx 2014.04.01

EUT: Go!Bridge (2GIG-BRDG1-900)		Work Order: 2GIG0021
Serial Number: 15234		Date: 04/22/14
Customer: Linear LLC		Temperature: 23.1 C°C
Attendees: Verdin Orozco		Humidity: 44%
Project: None		Barometric Pres.: 1015
Tested by: Johnny Candelas	Power: 110VAC/60Hz	Job Site: OC13

TEST SPECIFICATIONS		Test Method
FCC 15.247:2014		ANSI C63.10:2009

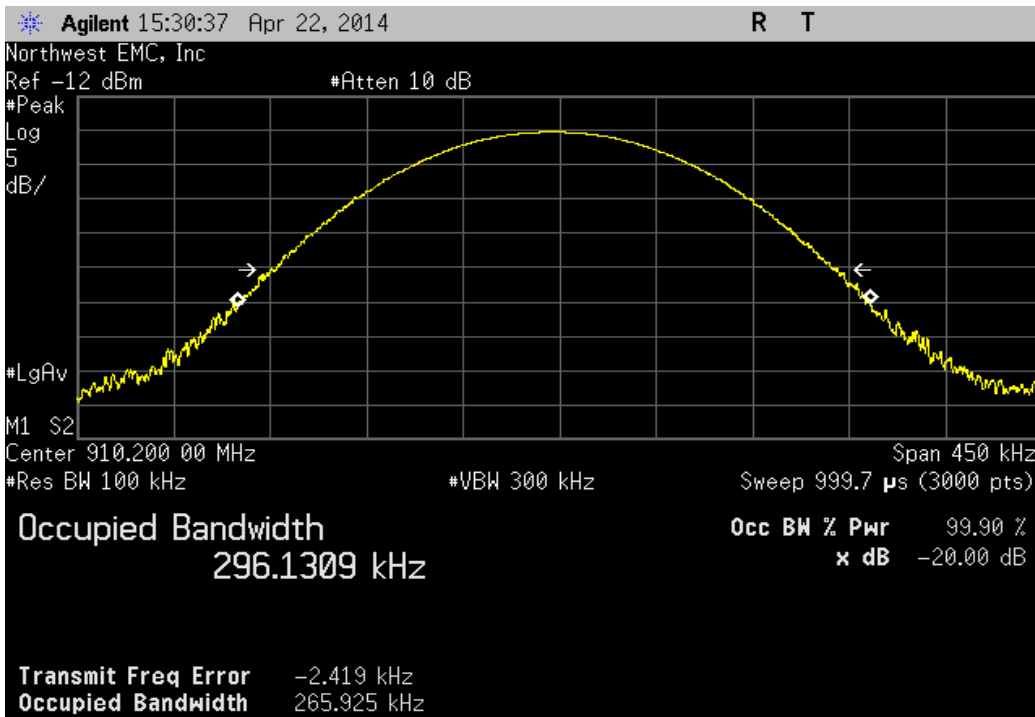
COMMENTS
Using Power Setting 7

DEVIATIONS FROM TEST STANDARD
None

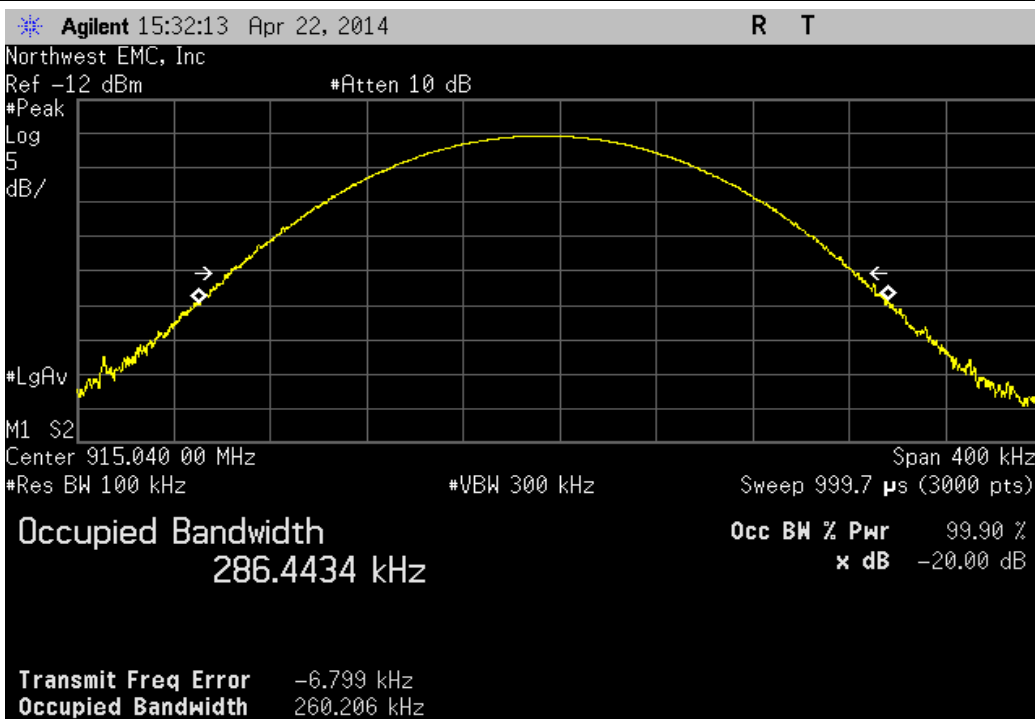
Configuration #	1	Signature 
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	Value	Limit	Result
Low Channel, 910.2 MHz	265.925 kHz	≤ 500 kHz	Pass
Mid Channel, 915.04 MHz	260.206 kHz	≤ 500 kHz	Pass
High Channel, 919.875 MHz	257.050 kHz	≤ 500 kHz	Pass

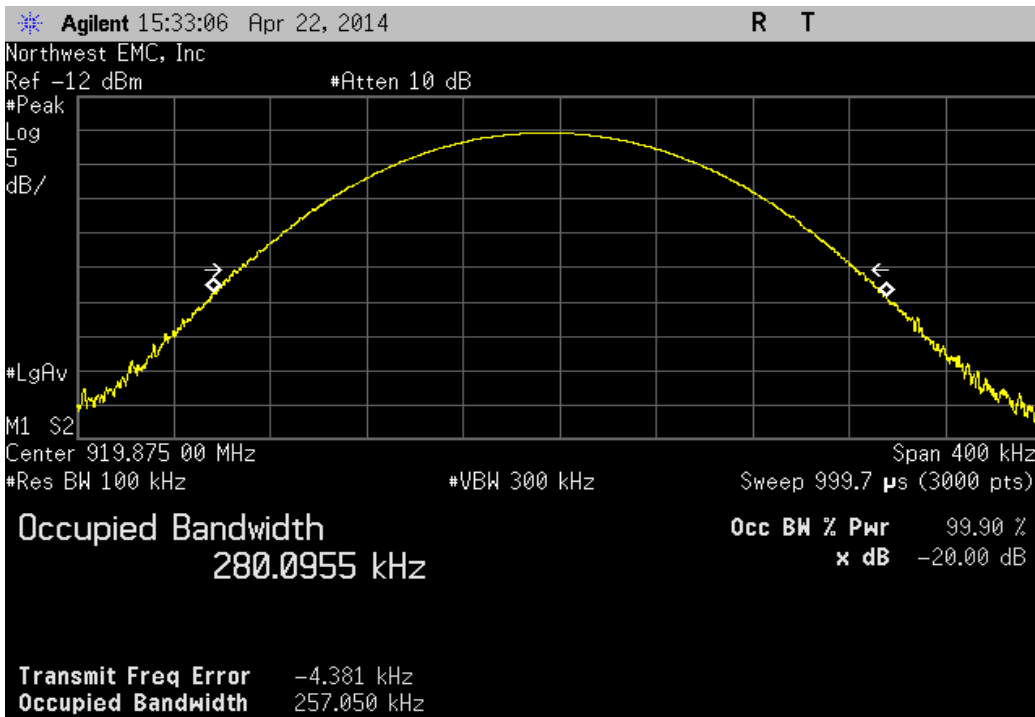
Low Channel, 910.2 MHz			
	Value	Limit	Result
	265.925 kHz	≤ 500 kHz	Pass



Mid Channel, 915.04 MHz			
	Value	Limit	Result
	260.206 kHz	≤ 500 kHz	Pass



High Channel, 919.875 MHz			
	Value	Limit	Result
	257.050 kHz	≤ 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 at Low, Mid, & High Channels (910.2, 915.04, & 919.875 MHz)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

2GIG0021 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	902 MHz	Stop Frequency	928 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, Biconilog	EMCO	3142	AXB	6/2/2013	36 mo
OC10 Cables	N/A	10kHz-1GHz RE Cables	OCH	6/6/2013	12 mo
Pre-Amplifier	Miteq	AM-1064-9079	AOO	6/6/2013	12 mo
Spectrum Analyzer	Agilent	E4440A	AFA	6/15/2012	24 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0


TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The radiated power was measured using a spectrum analyzer and bilog antenna in a semi-anechoic chamber. A peak detector was used. The EUT was transmitting at its maximum data rate. The level of fundamental emission was maximized by rotating the turntable and moving the measurement antenna from 1 – 4 meters in height.

The field strength measurement was converted to effective radiated power (EIRP) using the Friis transmission equation. A simplified version is found in ANSI C63.10:2009, Equation 5.

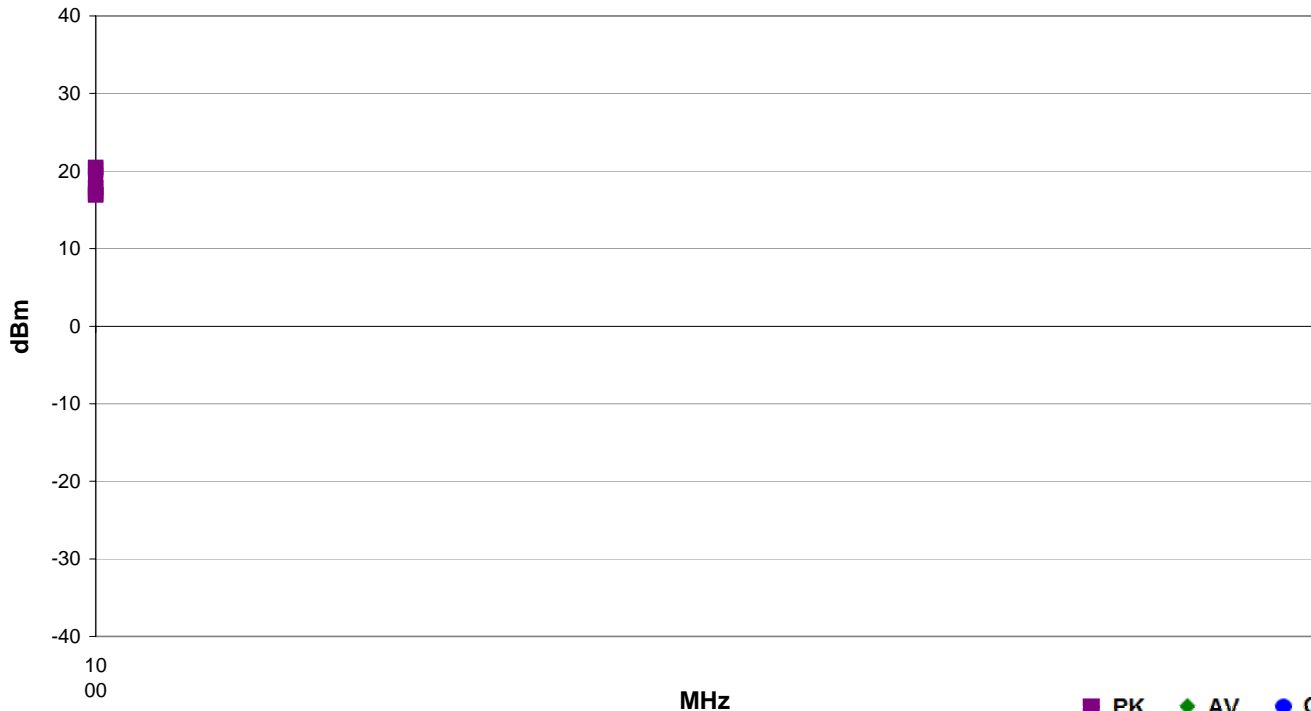
De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +30dBm.

OUTPUT POWER

Work Order:	2GIG0021	Date:	04/21/14	
Project:	None	Temperature:	22.6 °C	
Job Site:	OC07	Humidity:	54.8% RH	
Serial Number:	15234	Barometric Pres.:	1018 mbar	
EUT:	Go!Bridge (2GIG-BRDG1-900)			
Configuration:	1			
Customer:	Linear LLC			
Attendees:	Verdin Orozco			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting at Low, Mid, & High Channels (910.2, 915.04, & 919.875 MHz)			
Deviations:	None			
Comments:	None			

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

Run #	2	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)
919.868	1.0	283.0	Horz	PK	1.11E-01	20.5	30.0	-9.5
915.032	1.0	350.0	Horz	PK	1.11E-01	20.5	30.0	-9.5
910.195	1.0	355.0	Horz	PK	1.03E-01	20.1	30.0	-9.9
919.868	1.0	22.0	Vert	PK	8.62E-02	19.4	30.0	-10.6
915.032	2.1	204.0	Vert	PK	6.10E-02	17.9	30.0	-12.1
910.192	1.2	314.0	Horz	PK	6.09E-02	17.8	30.0	-12.2
910.193	1.0	105.0	Vert	PK	5.43E-02	17.3	30.0	-12.7
910.195	1.0	318.0	Vert	PK	4.95E-02	16.9	30.0	-13.1
910.195	3.2	91.0	Vert	PK	4.95E-02	16.9	30.0	-13.1
910.197	1.0	110.0	Horz	PK	4.95E-02	16.9	30.0	-13.1

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
Signal Generator	Agilent	E8257D	TGU	2/1/2012	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24

TEST DESCRIPTION


The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to low and high transmit frequencies. The measurement was made using a near field probe connected to the spectrum analyzer and secured to the EUT where the highest amplitude was found. An offset was then used to obtain the relative output power reading. The EUT was transmitting at the data rate(s) listed in the datasheet in a no hop mode. The channels closest to the band edges were selected.

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



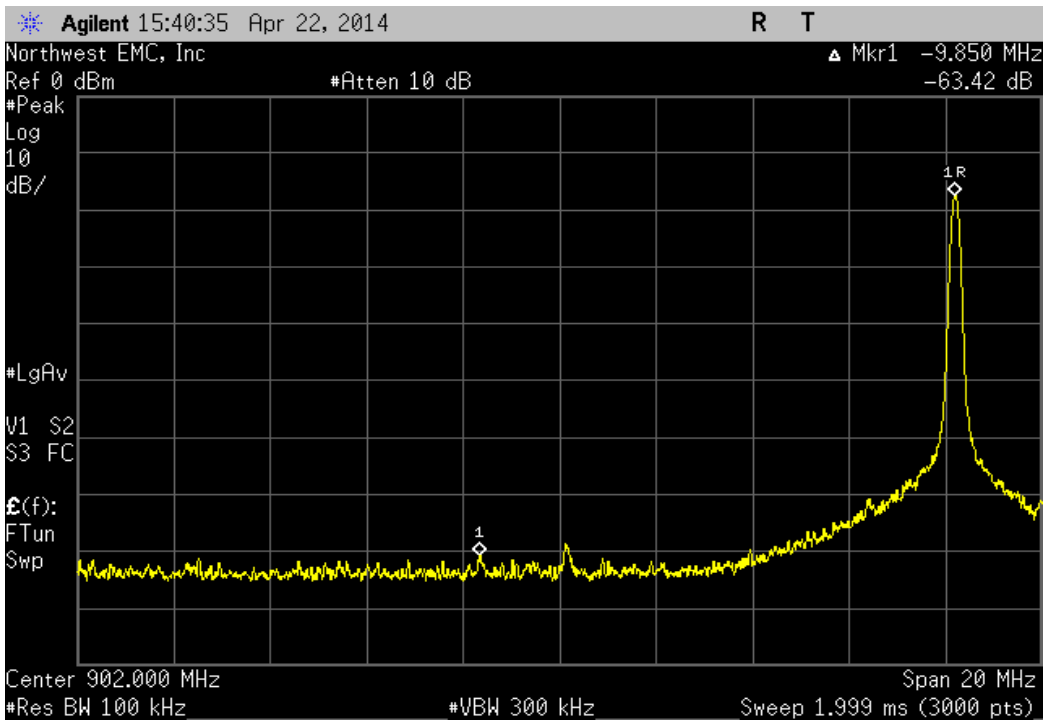
BAND EDGE COMPLIANCE

XMit 2013.08.15
PsaTx 2014.04.01

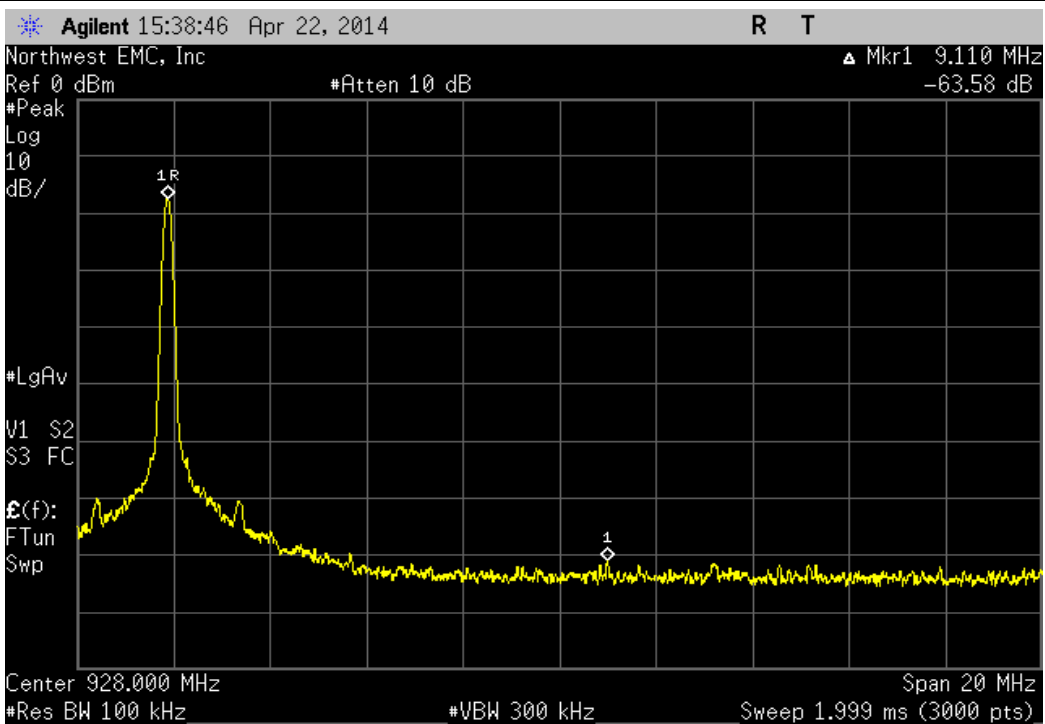
EUT: Go!Bridge (2GIG-BRDG1-900)		Work Order: 2GIG0021	
Serial Number: 15234		Date: 04/22/14	
Customer: Linear LLC		Temperature: 23.1 C°C	
Attendees: Verdin Orozco		Humidity: 44%	
Project: None		Barometric Pres.: 1015	
Tested by: Johnny Candelas		Power: 110VAC/60Hz	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2014		ANSI C63.10:2009	
COMMENTS			
Using Power Setting 7			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	

	Value	Limit	Result
Low Channel, 910.2 MHz	-63.42 dBc	≤ -20 dBc	Pass
High Channel, 919.875 MHz	-63.58 dBc	≤ -20 dBc	Pass

Low Channel, 910.2 MHz			
	Value	Limit	Result
	-63.42 dBc	≤ -20 dBc	Pass



High Channel, 919.875 MHz			
	Value	Limit	Result
	-63.58 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE - HOPPING MODE

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
Signal Generator	Agilent	E8257D	TGU	2/1/2012	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24

TEST DESCRIPTION


The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to its normal pseudo-random hopping sequence. The measurement was made using a near field probe connected to the spectrum analyzer and secured to the EUT where the highest amplitude was found. An offset was then used to obtain the relative output power reading. 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.

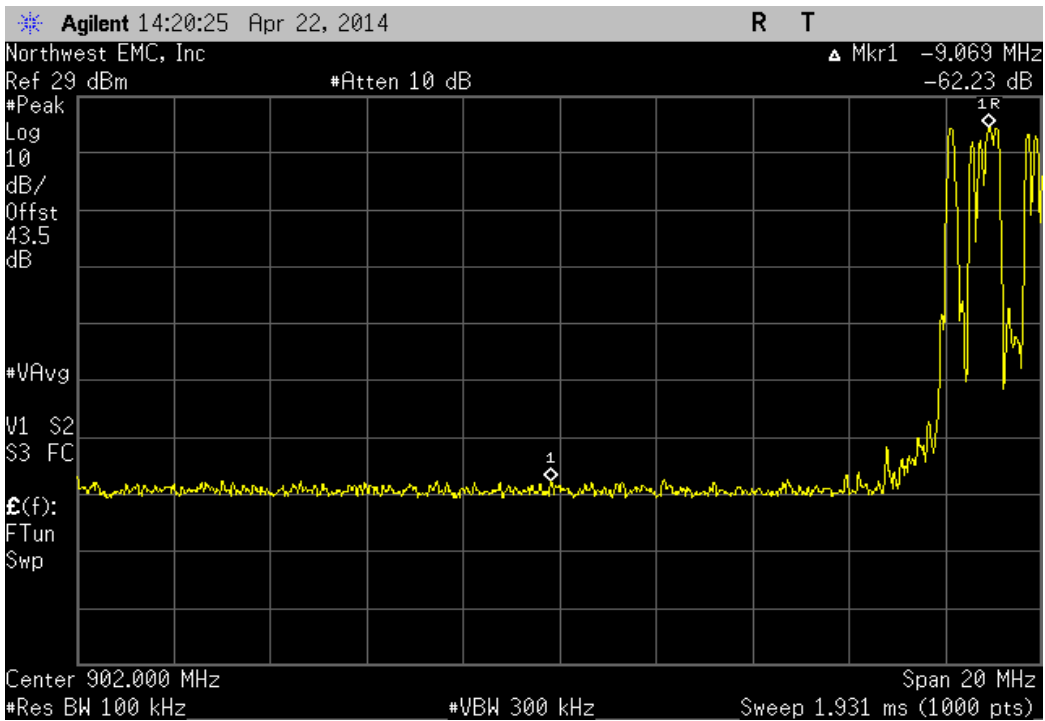


BAND EDGE COMPLIANCE - HOPPING MODE

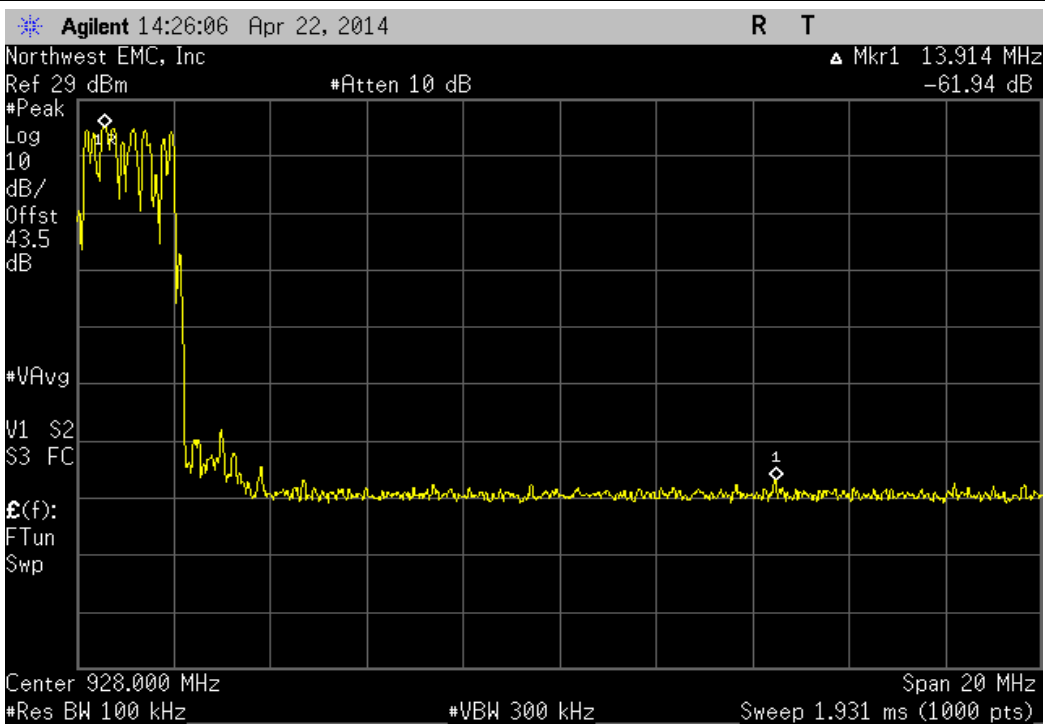
XMit 2013.08.15
PsaTx 2014.04.01

EUT: Go!Bridge (2GIG-BRDG1-900)		Work Order: 2GIG0021	
Serial Number: 15223		Date: 04/22/14	
Customer: Linear LLC		Temperature: 23.1 C°C	
Attendees: Verdin Orozco		Humidity: 44%	
Project: None		Barometric Pres.: 1015	
Tested by: Johnny Candelas		Job Site: OC13	
Power: 110VAC/60Hz			
TEST SPECIFICATIONS			
FCC 15.247:2014		Test Method	
		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Value	Limit
Hopping Mode			Result
Low Channel, 910.2 MHz		-62.23 dBc	≤ -20 dBc Pass
High Channel, 919.875 MHz		-61.94 dBc	≤ -20 dBc Pass

Hopping Mode, Low Channel, 910.2 MHz			
	Value	Limit	Result
	-62.23 dBc	≤ -20 dBc	Pass



Hopping Mode, High Channel, 919.875 MHz			
	Value	Limit	Result
	-61.94 dBc	≤ -20 dBc	Pass



CHANNEL SEPARATION

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
Signal Generator	Agilent	E8257D	TGU	2/1/2012	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24


TEST DESCRIPTION

The carrier frequency separation was measured between channels in the middle of the authorized band. The measurement was made using a near field probe connected to the spectrum analyzer and secured to the EUT where the highest amplitude was found. An offset was then used to obtain the relative output power reading. The hopping function of the EUT was enabled.

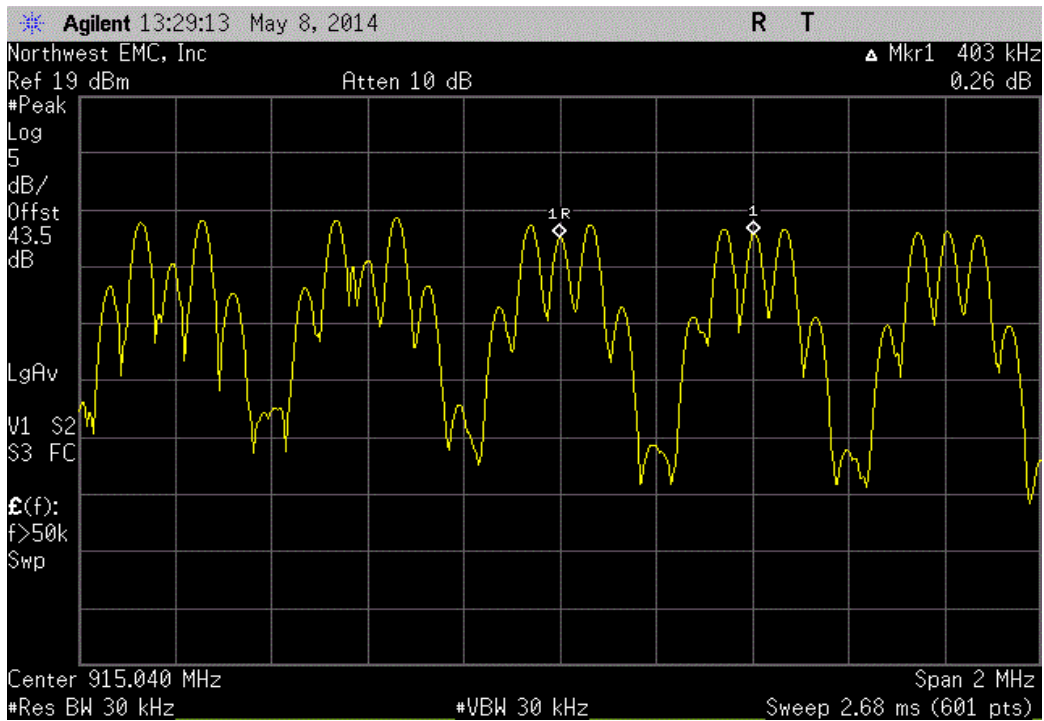


CHANNEL SEPARATION

XMit 2013.08.15
PsaTx 2014.04.01

EUT: Go!Bridge (2GIG-BRDG1-900)		Work Order: 2GIG0021	
Serial Number: 15223		Date: 05/08/14	
Customer: Linear LLC		Temperature: 24.3°C	
Attendees: None		Humidity: 48%	
Project: None		Barometric Pres.: 1013	
Tested by: Johnny Candelas		Power: 110VAC/60Hz	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2014		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Value	Limit
Hopping Mode		403 kHz	≥ 25 kHz
			Result
			Pass

Hopping Mode			
	Value	Limit	Result
	403 kHz	≥ 25 kHz	Pass



NUMBER OF HOPPING FREQUENCIES

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
Signal Generator	Agilent	E8257D	TGU	2/1/2012	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24


TEST DESCRIPTION

The number of hopping frequencies was measured across the authorized band. The measurement was made using a near field probe connected to the spectrum analyzer and secured to the EUT where the highest amplitude was found. An offset was then used to obtain the relative output power reading. The hopping function of the EUT was enabled.

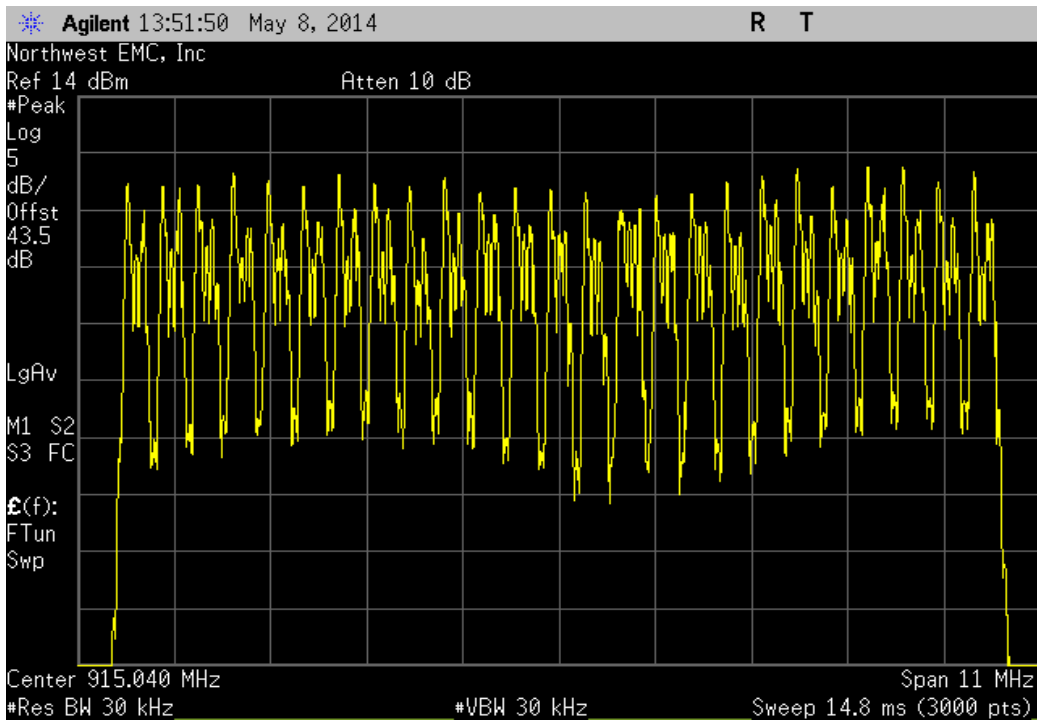


NUMBER OF HOPPING FREQUENCIES

XMit 2013.08.15
PsaTx 2014.04.01

EUT: Go!Bridge (2GIG-BRDG1-900)		Work Order: 2GIG0021	
Serial Number: 15223		Date: 05/08/14	
Customer: Linear LLC		Temperature: 24.3°C	
Attendees: None		Humidity: 48%	
Project: None		Barometric Pres.: 1013	
Tested by: Johnny Candelas		Power: 110VAC/60Hz	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2014		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Number of Channels	Limit
Hopping Mode		25	≥ 25
			Result
			Pass

Hopping Mode				Number of Channels	Limit	Result
				25	≥ 25	Pass



DWELL TIME

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
Signal Generator	Agilent	E8257D	TGU	2/1/2012	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Spectrum Analyzer	Agilent	E4446A	AAY	2/22/2013	24

TEST DESCRIPTION

The average dwell time per hopping channel was measured at one hopping channel in the middle of the authorized band. The measurement was made using a near field probe connected to the spectrum analyzer and secured to the EUT where the highest amplitude was found. An offset was then used to obtain the relative output power reading. The hopping function of the EUT was enabled.

The dwell time limit is based on the Number of Hopping Channels * 400 mS. For 902-928MHz band this would be 25 Channels * 400mS = 10 Sec.

On Time During 10 Sec = Pulse Width * Average Number of Pulses * Scale Factor

➤ Average Number of Pulses is based on 4 samples.

➤ Scale Factor = 10 Sec / Screen Capture Sweep Time = 10 Sec / 2 Sec = 5



DWELL TIME

XMit 2013.08.15
PsaTx 2014.04.01

EUT: Go!Bridge (2GIG-BRDG1-900)		Work Order: 2GIG0021	
Serial Number: 15223		Date: 05/08/14	
Customer: Linear LLC		Temperature: 24.3°C	
Attendees: None		Humidity: 48%	
Project: None		Barometric Pres.: 1013	
Tested by: Johnny Candelas	Power: 110VAC/60Hz	Job Site: OC13	

TEST SPECIFICATIONS		Test Method	
FCC 15.247:2014		ANSI C63.10:2009	

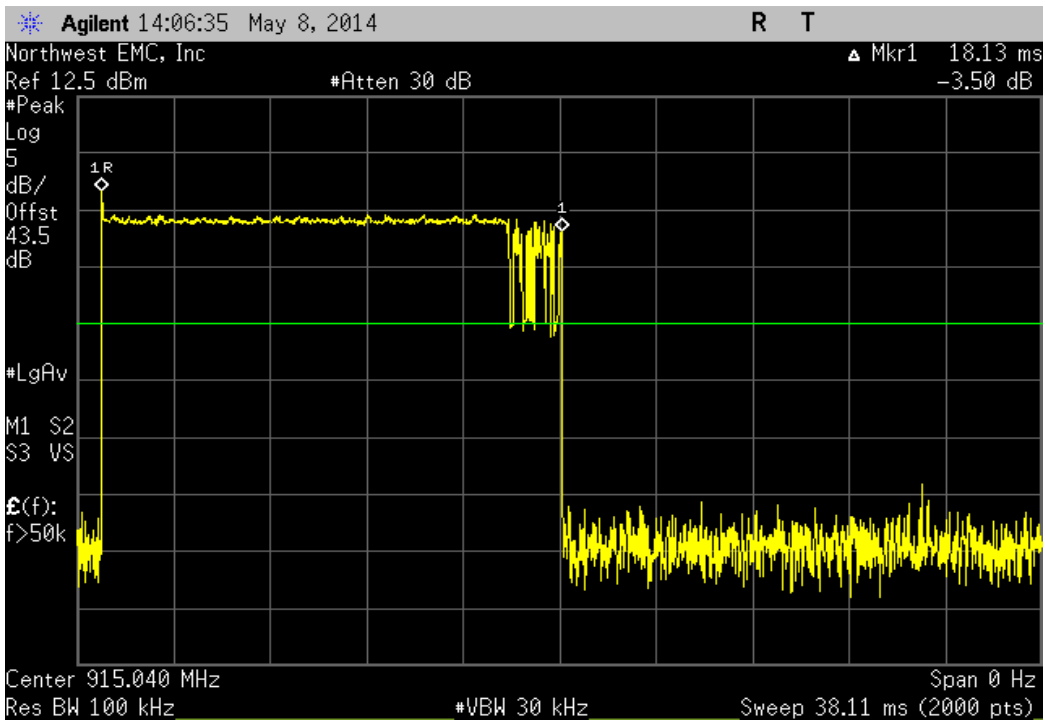
COMMENTS
None

DEVIATIONS FROM TEST STANDARD
None

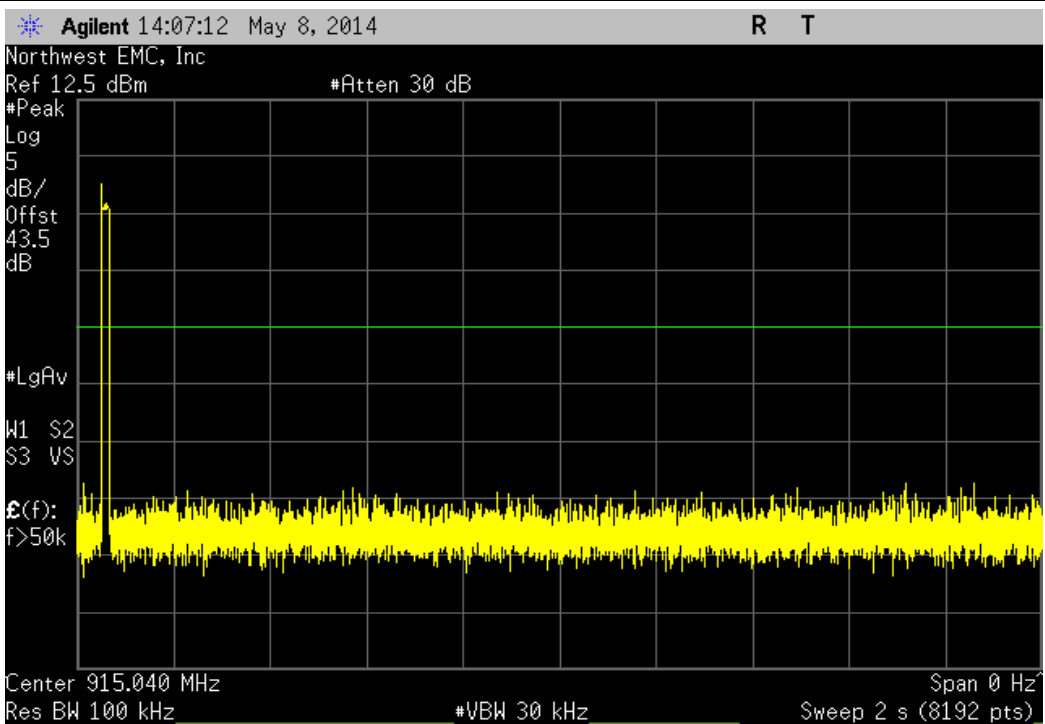
Configuration #	2	Signature 
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		Pulse Width (mS)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (mS) During 10 S	Limit (mS)	Result
Hopping Mode								
	Mid Channel	18.132	N/A	N/A	N/A	N/A	N/A	N/A
	Mid Channel	N/A	1	N/A	N/A	N/A	N/A	N/A
	Mid Channel	N/A	1	N/A	N/A	N/A	N/A	N/A
	Mid Channel	N/A	1	N/A	N/A	N/A	N/A	N/A
	Mid Channel	N/A	1	N/A	N/A	N/A	N/A	N/A
	Mid Channel	18.132	N/A	1	5	90.66	400	Pass

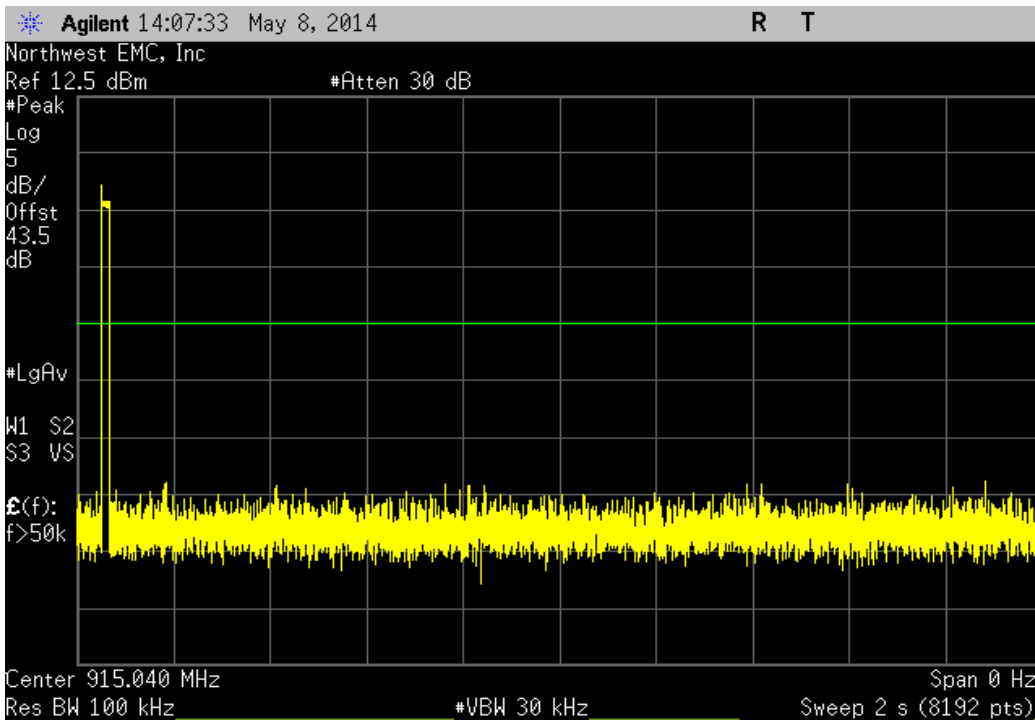
Hopping Mode, Mid Channel						
Pulse Width (mS)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (mS) During 10 S	Limit (mS)	Result
18.132	N/A	N/A	N/A	N/A	N/A	N/A



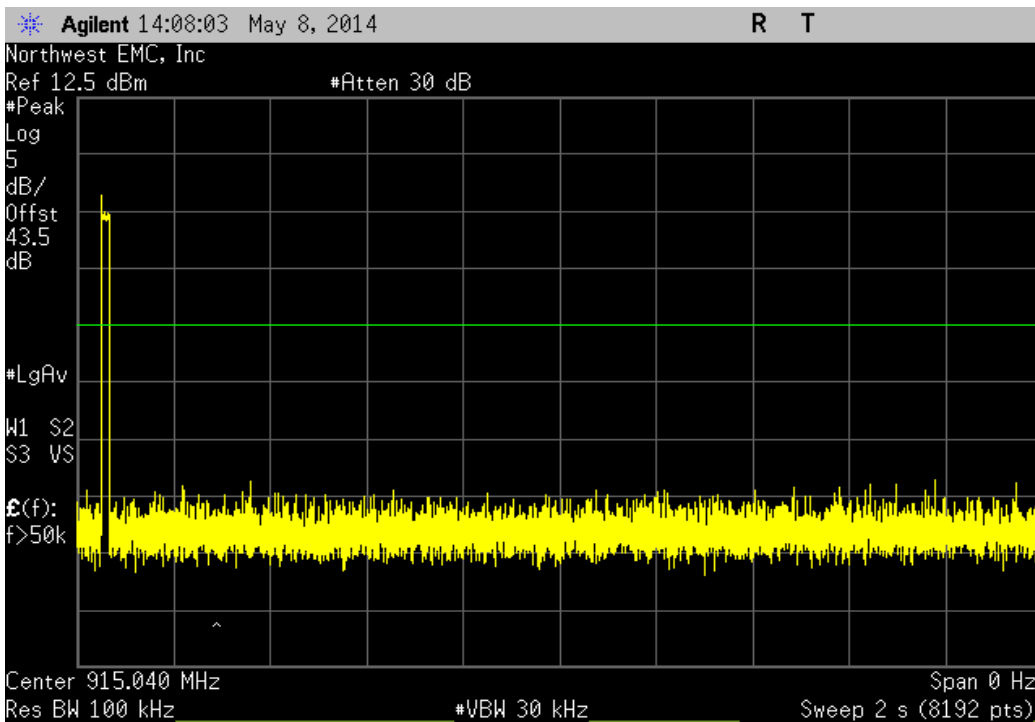
Hopping Mode, Mid Channel						
Pulse Width (mS)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (mS) During 10 S	Limit (mS)	Result
N/A	1	N/A	N/A	N/A	N/A	N/A



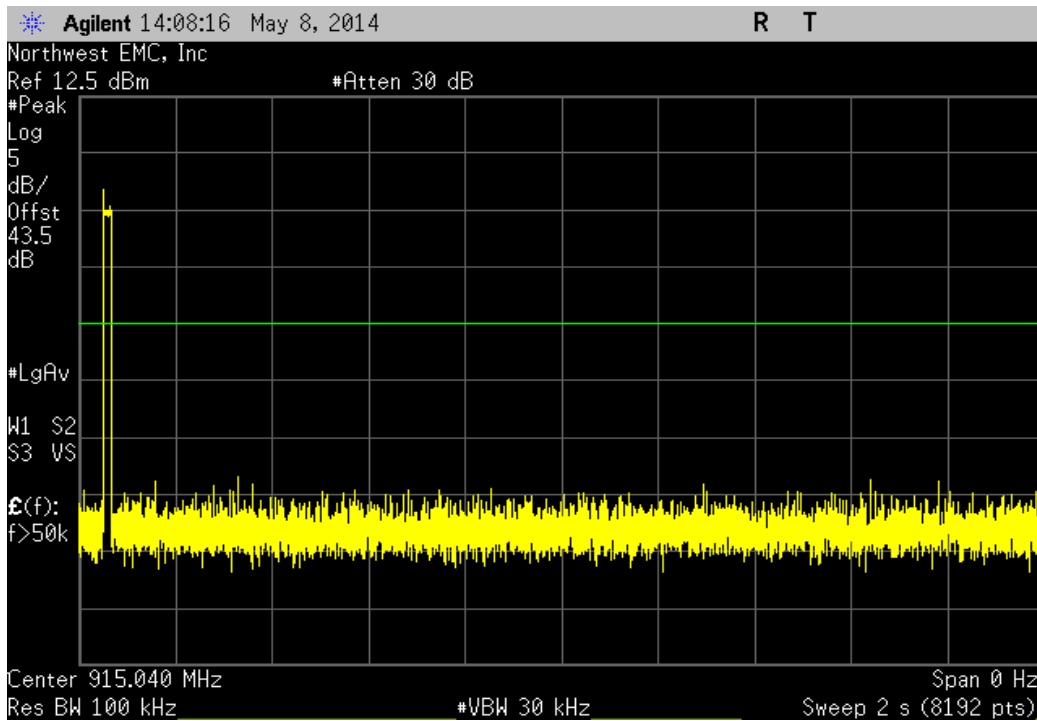
Hopping Mode, Mid Channel						
Pulse Width (mS)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (mS) During 10 S	Limit (mS)	Result
N/A	1	N/A	N/A	N/A	N/A	N/A



Hopping Mode, Mid Channel						
Pulse Width (mS)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (mS) During 10 S	Limit (mS)	Result
N/A	1	N/A	N/A	N/A	N/A	N/A



Hopping Mode, Mid Channel						
Pulse Width (mS)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (mS) During 10 S	Limit (mS)	Result
N/A	1	N/A	N/A	N/A	N/A	N/A



Hopping Mode, Mid Channel						
Pulse Width (mS)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (mS) During 10 S	Limit (mS)	Result
18.132	N/A	1	5	90.66	400	Pass

Calculation Only

No Screen Capture Required

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 at Low, Mid, & High Channels (910.2, 915.04, & 919.875 MHz)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

2GIG0021 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	10000 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
BP Filter	K&L Microwave	3TNF-500/1000-N/N	HFR	11/27/2012	36 mo
Attenuator	Coaxicom	66702 3910AF-20	TKI	6/6/2013	12 mo
HP Filter	Micro-Tronics	HPM50108	HFW	4/2/2012	36 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	6/6/2013	12 mo
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	10/24/2013	12 mo
Antenna, Horn	EMCO	3115	AHB	3/10/2014	36 mo
Antenna, Biconilog	EMCO	3142	AXB	6/2/2013	36 mo
OC10 Cables	N/A	10kHz-1GHz RE Cables	OCH	6/6/2013	12 mo
Pre-Amplifier	Miteq	AM-1064-9079	AOO	6/6/2013	12 mo
Spectrum Analyzer	Agilent	E4440A	AFA	6/15/2012	24 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

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.

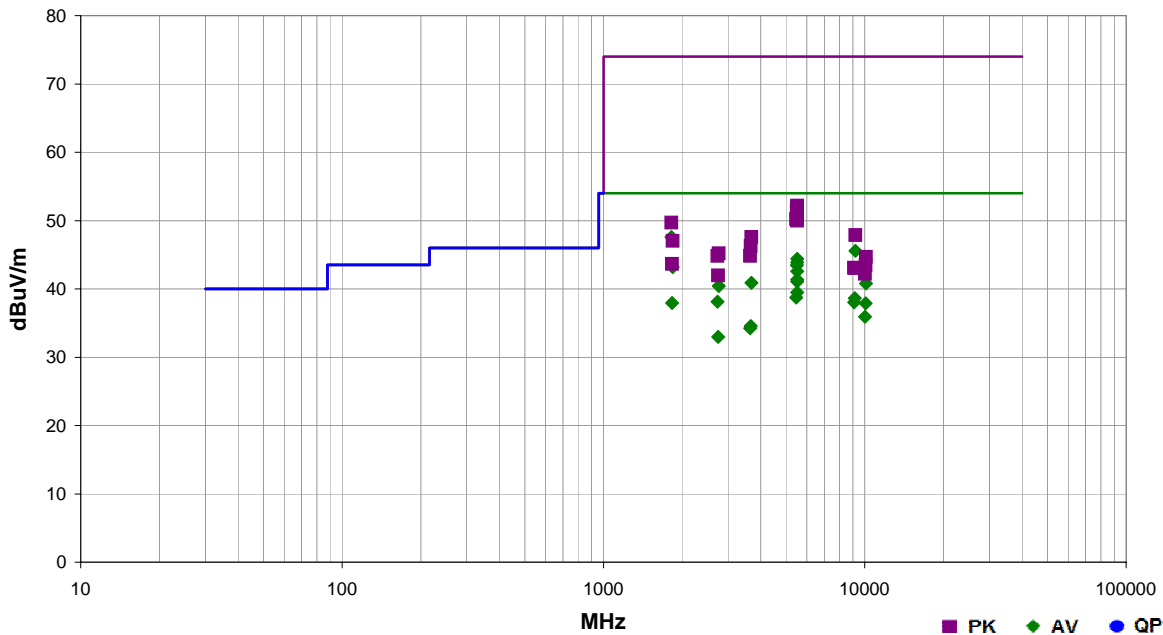


SPURIOUS RADIATED EMISSIONS

Work Order:	2GIG0021	Date:	04/21/14	
Project:	None	Temperature:	22.6 °C	
Job Site:	OC07	Humidity:	54.8% RH	
Serial Number:	15234	Barometric Pres.:	1018 mbar	
EUT:	Go!Bridge (2GIG-BRDG1-900)			
Configuration:	1			
Customer:	Linear LLC			
Attendees:	Verdin Orozco			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting at Low, Mid, & High Channels (910.2, 915.04, & 919.875 MHz)			
Deviations:	None			
Comments:	Using Power Setting 7			

Test Specifications	FCC 15.209:2014	Test Method	ANSI C63.10:2009
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Run #	3	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
1820.390	47.1	0.5	1.0	260.0	3.0	0.0	Horz	AV	0.0	47.6	54.0	-6.4	EUT Vert, Low Ch
9198.708	56.1	-10.5	1.3	299.0	3.0	0.0	Horz	AV	0.0	45.6	54.0	-8.4	EUT Vert, High Ch
5519.180	31.5	12.9	1.2	310.0	3.0	0.0	Horz	AV	0.0	44.4	54.0	-9.6	EUT Vert, High Ch
5519.225	31.0	12.9	1.2	272.0	3.0	0.0	Vert	AV	0.0	43.9	54.0	-10.1	EUT Horiz, High Ch
5490.170	30.6	12.9	1.2	84.0	3.0	0.0	Vert	AV	0.0	43.5	54.0	-10.5	EUT Horiz, Mid Ch
1839.750	42.6	0.6	2.1	105.0	3.0	0.0	Horz	AV	0.0	43.2	54.0	-10.8	EUT Vert, High Ch
5519.205	29.7	12.9	1.2	257.0	3.0	0.0	Vert	AV	0.0	42.6	54.0	-11.4	EUT Vert, High Ch
5519.235	28.5	12.9	1.2	250.0	3.0	0.0	Vert	AV	0.0	41.4	54.0	-12.6	EUT on Side, High Ch
5519.275	28.2	12.9	1.2	243.0	3.0	0.0	Horz	AV	0.0	41.1	54.0	-12.9	EUT on Side, High Ch
3679.455	33.7	7.2	1.2	49.0	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1	EUT Vert, High Ch
10118.580	50.2	-9.4	1.2	47.0	3.0	0.0	Horz	AV	0.0	40.8	54.0	-13.2	EUT Vert, High Ch
2759.635	37.8	2.6	1.7	114.0	3.0	0.0	Horz	AV	0.0	40.4	54.0	-13.6	EUT Vert, High Ch
5519.230	26.6	12.9	1.2	12.0	3.0	0.0	Horz	AV	0.0	39.5	54.0	-14.5	EUT Horiz, High Ch
5461.130	25.9	12.8	1.2	92.0	3.0	0.0	Horz	AV	0.0	38.7	54.0	-15.3	EUT Vert, Low Ch
9150.310	49.2	-10.5	1.0	86.0	3.0	0.0	Vert	AV	0.0	38.7	54.0	-15.3	EUT Horiz, Mid Ch
2730.605	35.6	2.5	1.0	263.0	3.0	0.0	Horz	AV	0.0	38.1	54.0	-15.9	EUT Vert, Low Ch
9101.920	48.6	-10.6	1.0	85.0	3.0	0.0	Vert	AV	0.0	38.0	54.0	-16.0	EUT Horiz, Low Ch
1830.060	37.4	0.5	1.2	74.0	3.0	0.0	Vert	AV	0.0	37.9	54.0	-16.1	EUT Horiz, Mid Ch
10065.390	47.4	-9.5	1.0	52.0	3.0	0.0	Vert	AV	0.0	37.9	54.0	-16.1	EUT Horiz, Mid Ch
10012.140	45.5	-9.6	0.0	34.0	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	EUT Horiz, Low Ch
3659.770	27.5	7.1	1.2	296.0	3.0	0.0	Vert	AV	0.0	34.6	54.0	-19.4	EUT Horiz, Mid Ch
3640.915	27.3	6.9	3.6	209.0	3.0	0.0	Horz	AV	0.0	34.2	54.0	-19.8	EUT Vert, Low Ch

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
2745.090	30.4	2.6	1.2	204.0	3.0	0.0	Vert	AV	0.0	33.0	54.0	-21.0	EUT Horiz, Mid Ch
5519.275	39.3	12.9	1.2	272.0	3.0	0.0	Vert	PK	0.0	52.2	74.0	-21.8	EUT Horiz, High Ch
5519.115	39.1	12.9	1.2	310.0	3.0	0.0	Horz	PK	0.0	52.0	74.0	-22.0	EUT Vert, High Ch
5490.310	38.7	12.9	1.2	84.0	3.0	0.0	Vert	PK	0.0	51.6	74.0	-22.4	EUT Horiz, Mid Ch
5518.910	38.3	12.9	1.2	257.0	3.0	0.0	Vert	PK	0.0	51.2	74.0	-22.8	EUT Vert, High Ch
5519.025	37.9	12.9	1.2	243.0	3.0	0.0	Horz	PK	0.0	50.8	74.0	-23.2	EUT on Side, High Ch
5519.390	37.5	12.9	1.2	250.0	3.0	0.0	Vert	PK	0.0	50.4	74.0	-23.6	EUT on Side, High Ch
5462.455	37.4	12.8	1.2	92.0	3.0	0.0	Horz	PK	0.0	50.2	74.0	-23.8	EUT Vert, Low Ch
5519.225	37.1	12.9	1.2	12.0	3.0	0.0	Horz	PK	0.0	50.0	74.0	-24.0	EUT Horiz, High Ch
1820.400	49.2	0.5	1.0	260.0	3.0	0.0	Horz	PK	0.0	49.7	74.0	-24.3	EUT Vert, Low Ch
9198.642	58.4	-10.5	1.3	299.0	3.0	0.0	Horz	PK	0.0	47.9	74.0	-26.1	EUT Vert, High Ch
3679.195	40.4	7.2	1.2	49.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	EUT Vert, High Ch
1839.750	46.4	0.6	2.1	105.0	3.0	0.0	Horz	PK	0.0	47.0	74.0	-27.0	EUT Vert, High Ch
3660.780	39.2	7.1	1.2	296.0	3.0	0.0	Vert	PK	0.0	46.3	74.0	-27.7	EUT Horiz, Mid Ch
2759.680	42.6	2.6	1.7	114.0	3.0	0.0	Horz	PK	0.0	45.2	74.0	-28.8	EUT Vert, High Ch
3642.500	37.9	6.9	3.6	209.0	3.0	0.0	Horz	PK	0.0	44.8	74.0	-29.2	EUT Vert, Low Ch
2730.385	42.3	2.5	1.0	263.0	3.0	0.0	Horz	PK	0.0	44.8	74.0	-29.2	EUT Vert, Low Ch
10118.630	54.1	-9.4	1.2	47.0	3.0	0.0	Horz	PK	0.0	44.7	74.0	-29.3	EUT Vert, High Ch
1829.880	43.1	0.5	1.2	74.0	3.0	0.0	Vert	PK	0.0	43.6	74.0	-30.4	EUT Horiz, Mid Ch
10065.200	52.9	-9.5	1.0	52.0	3.0	0.0	Vert	PK	0.0	43.4	74.0	-30.6	EUT Horiz, Mid Ch
9101.850	53.7	-10.6	1.0	85.0	3.0	0.0	Vert	PK	0.0	43.1	74.0	-30.9	EUT Horiz, Low Ch
9150.330	53.6	-10.5	1.0	86.0	3.0	0.0	Vert	PK	0.0	43.1	74.0	-30.9	EUT Horiz, Mid Ch
10011.850	51.8	-9.6	0.0	34.0	3.0	0.0	Vert	PK	0.0	42.2	74.0	-31.8	EUT Horiz, Low Ch
2745.350	39.4	2.6	1.2	204.0	3.0	0.0	Vert	PK	0.0	42.0	74.0	-32.0	EUT Horiz, Mid Ch

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 at Low Channel, 910.2 MHz

Continuously Transmitting at Mid Channel, 915.04 MHz

Continuously Transmitting at High Channel, 919.875 MHz

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

2GIG0021 - 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	6/3/2013	12 mo
Attenuator	Pasternack	6N10W-20	AWC	1/3/2014	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
Receiver	Rohde & Schwarz	ESCI	ARF	5/21/2013	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 either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT.

The EUT was transmitting at its maximum data rate. 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.



POWERLINE CONDUCTED EMISSIONS

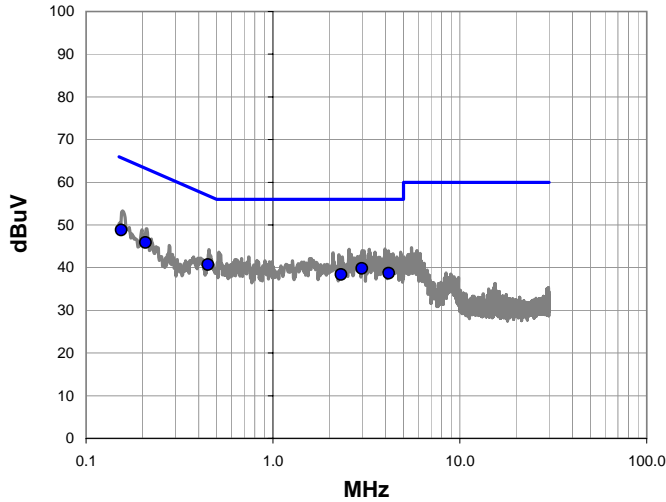
PSA-ESCI 2014.02.19
PSA-ESCI Version 2013.2.20

Work Order:	2GIG0021	Date:	04/21/14	
Project:	None	Temperature:	22.7 °C	
Job Site:	OC06	Humidity:	54.7% RH	
Serial Number:	15234	Barometric Pres.:	1017 mbar	
EUT:	Go!Bridge (2GIG-BRDG1-900)			
Configuration:	1			
Customer:	Linear LLC			
Attendees:	Verdin Orozco			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting at Low Channel, 910.2 MHz			
Deviations:	None			
Comments:	Using Power Setting 7			

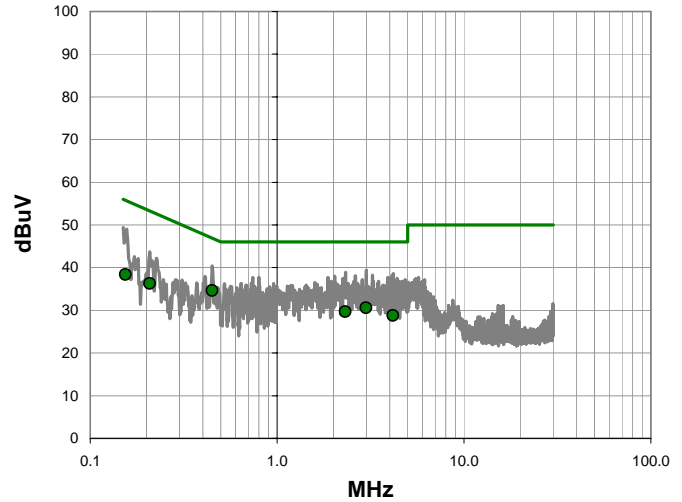
Test Specifications	Test Method
FCC 15.207:2014	ANSI C63.10:2009

Run #	6	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.449	20.6	20.1	40.7	56.9	-16.2
2.996	19.7	20.1	39.8	56.0	-16.2
0.154	28.7	20.1	48.8	65.8	-17.0
4.164	18.6	20.1	38.7	56.0	-17.3
0.208	25.8	20.1	45.9	63.3	-17.4
2.320	18.3	20.1	38.4	56.0	-17.6


Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.449	14.5	20.1	34.6	46.9	-12.3
2.996	10.5	20.1	30.6	46.0	-15.4
2.320	9.6	20.1	29.7	46.0	-16.3
0.208	16.2	20.1	36.3	53.3	-17.0
4.164	8.7	20.1	28.8	46.0	-17.2
0.154	18.3	20.1	38.4	55.8	-17.4



POWERLINE CONDUCTED EMISSIONS

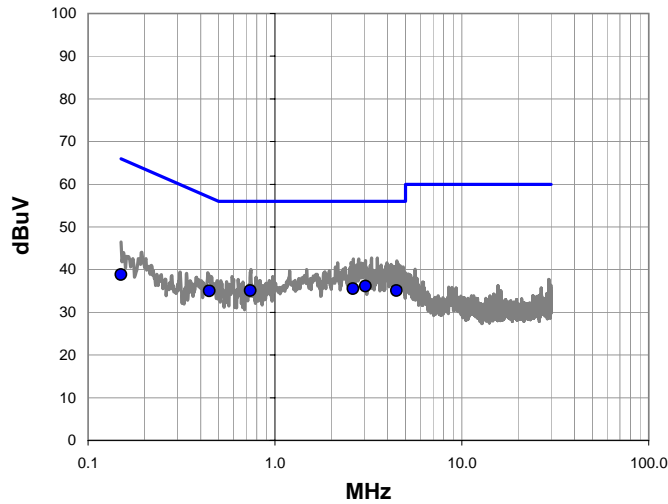
PSA-ESCI 2014.02.19
PSA-ESCI Version 2013.2.20

Work Order:	2GIG0021	Date:	04/21/14	
Project:	None	Temperature:	22.7 °C	
Job Site:	OC06	Humidity:	54.7% RH	
Serial Number:	15234	Barometric Pres.:	1017 mbar	
EUT:	Go!Bridge (2GIG-BRDG1-900)			
Configuration:	1			
Customer:	Linear LLC			
Attendees:	Verdin Orozco			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting at Low Channel, 910.2 MHz			
Deviations:	None			
Comments:	Using Power Setting 7			

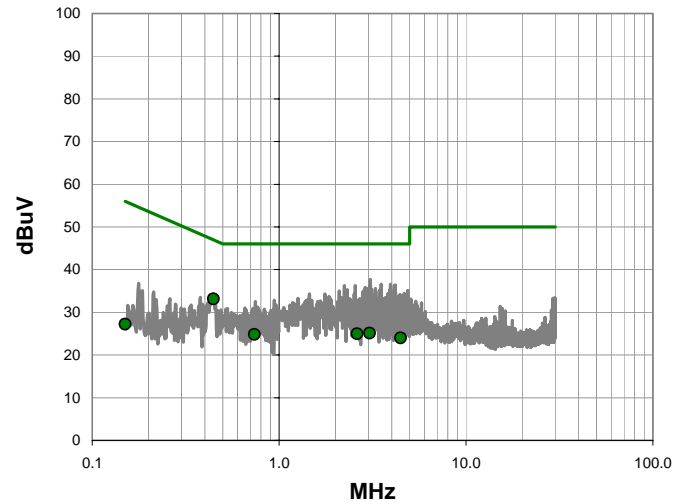
Test Specifications	Test Method
FCC 15.207:2014	ANSI C63.10:2009

Run #	7	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
3.056	16.0	20.1	36.1	56.0	-19.9
2.620	15.4	20.1	35.5	56.0	-20.5
0.739	15.0	20.1	35.1	56.0	-20.9
4.480	14.9	20.2	35.1	56.0	-20.9
0.445	14.9	20.1	35.0	57.0	-22.0
0.150	18.7	20.1	38.8	66.0	-27.2


Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.445	13.0	20.1	33.1	47.0	-13.9
3.056	5.0	20.1	25.1	46.0	-20.9
2.620	4.9	20.1	25.0	46.0	-21.0
0.739	4.7	20.1	24.8	46.0	-21.2
4.480	3.8	20.2	24.0	46.0	-22.0
0.150	7.1	20.1	27.2	56.0	-28.8



POWERLINE CONDUCTED EMISSIONS

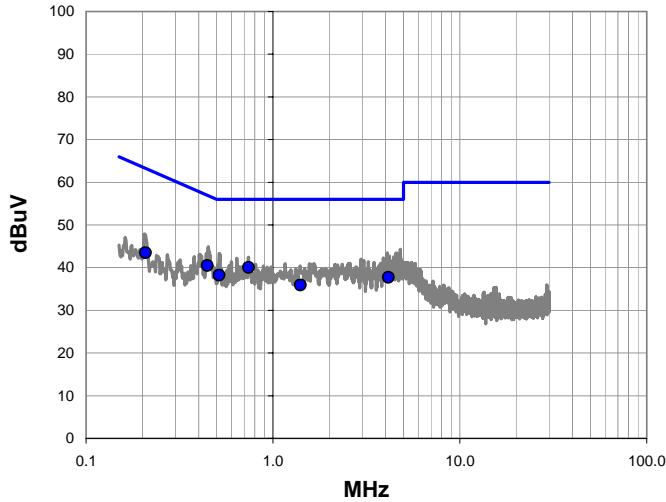
PSA-ESCI 2014.02.19
PSA-ESCI Version 2013.2.20

Work Order:	2GIG0021	Date:	04/21/14	
Project:	None	Temperature:	22.7 °C	
Job Site:	OC06	Humidity:	54.7% RH	
Serial Number:	15234	Barometric Pres.:	1017 mbar	
EUT:	Go!Bridge (2GIG-BRDG1-900)			
Configuration:	1			
Customer:	Linear LLC			
Attendees:	Verdin Orozco			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting at Mid Channel, 915.04 MHz			
Deviations:	None			
Comments:	Using Power Setting 7			

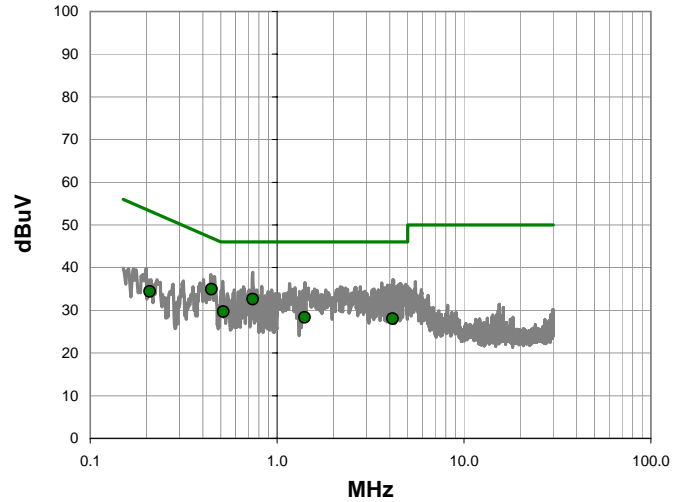
Test Specifications	FCC 15.207:2014	Test Method	ANSI C63.10:2009
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Run #	8	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.740	19.9	20.1	40.0	56.0	-16.0
0.446	20.4	20.1	40.5	56.9	-16.4
0.516	18.1	20.1	38.2	56.0	-17.8
4.148	17.6	20.1	37.7	56.0	-18.3
0.208	23.4	20.1	43.5	63.3	-19.8
1.404	15.8	20.1	35.9	56.0	-20.1


Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.446	14.8	20.1	34.9	46.9	-12.0
0.740	12.5	20.1	32.6	46.0	-13.4
0.516	9.6	20.1	29.7	46.0	-16.3
1.404	8.2	20.1	28.3	46.0	-17.7
4.148	7.9	20.1	28.0	46.0	-18.0
0.208	14.3	20.1	34.4	53.3	-18.9



POWERLINE CONDUCTED EMISSIONS

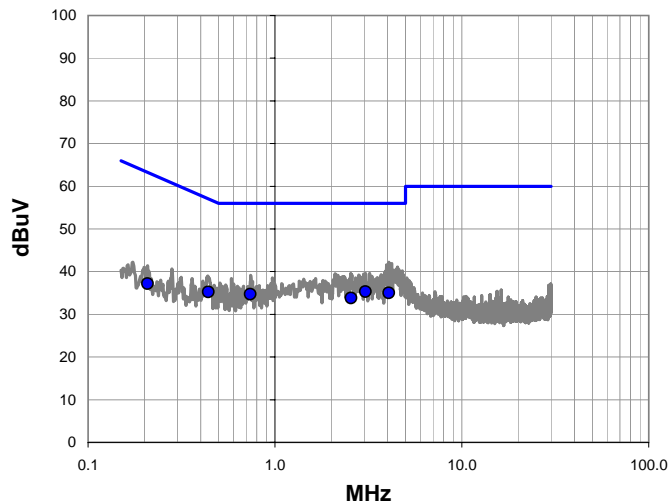
PSA-ESCI 2014.02.19
PSA-ESCI Version 2013.2.20

Work Order:	2GIG0021	Date:	04/21/14	
Project:	None	Temperature:	22.7 °C	
Job Site:	OC06	Humidity:	54.7% RH	
Serial Number:	15234	Barometric Pres.:	1017 mbar	
EUT:	Go!Bridge (2GIG-BRDG1-900)			
Configuration:	1			
Customer:	Linear LLC			
Attendees:	Verdin Orozco			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting at Mid Channel, 915.04 MHz			
Deviations:	None			
Comments:	Using Power Setting 7			

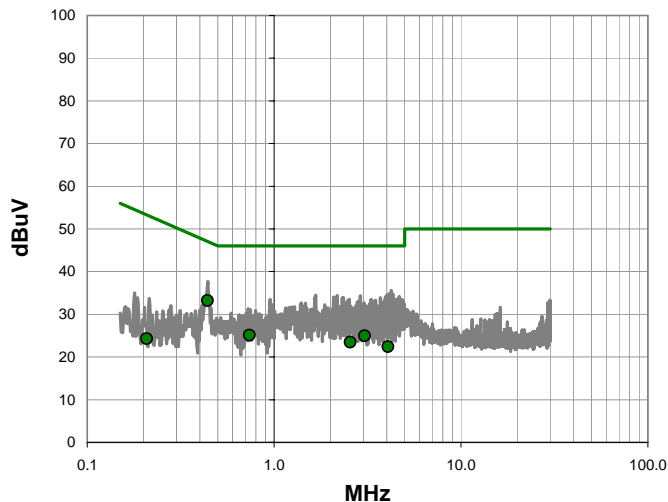
Test Specifications	FCC 15.207:2014	Test Method	ANSI C63.10:2009
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Run #	9	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
3.056	15.2	20.1	35.3	56.0	-20.7
4.076	14.9	20.1	35.0	56.0	-21.0
0.738	14.6	20.1	34.7	56.0	-21.3
0.441	15.1	20.1	35.2	57.0	-21.8
2.556	13.7	20.1	33.8	56.0	-22.2
0.208	17.1	20.1	37.2	63.3	-26.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.441	13.1	20.1	33.2	47.0	-13.8
0.738	5.0	20.1	25.1	46.0	-20.9
3.056	4.9	20.1	25.0	46.0	-21.0
2.556	3.4	20.1	23.5	46.0	-22.5
4.076	2.3	20.1	22.4	46.0	-23.6
0.208	4.2	20.1	24.3	53.3	-29.0



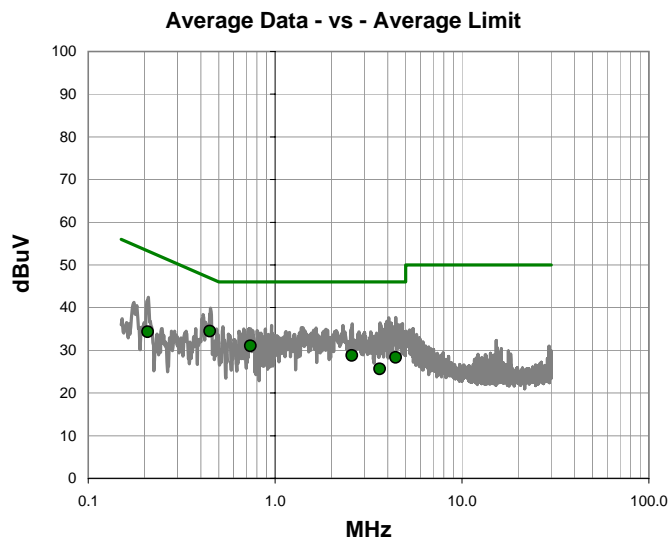
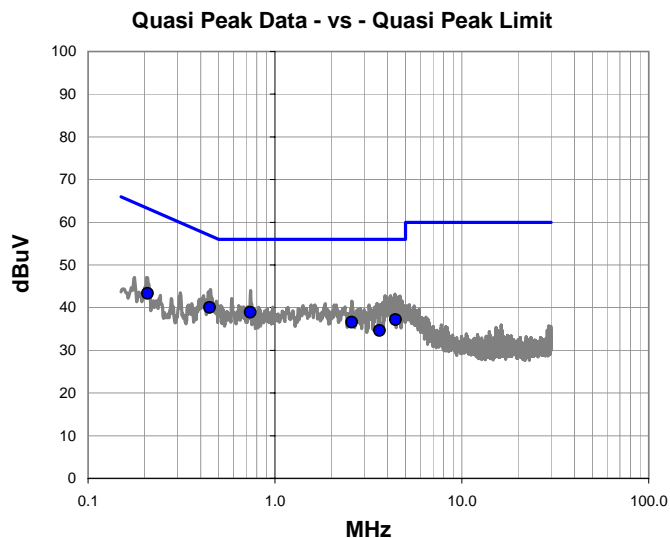
POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2014.02.19
PSA-ESCI Version 2013.2.20

Work Order:	2GIG0021	Date:	04/21/14	
Project:	None	Temperature:	22.7 °C	
Job Site:	OC06	Humidity:	54.7% RH	
Serial Number:	15234	Barometric Pres.:	1017 mbar	
EUT:	Go!Bridge (2GIG-BRDG1-900)			
Configuration:	1			
Customer:	Linear LLC			
Attendees:	Verdin Orozco			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting at High Channel, 919.875 MHz			
Deviations:	None			
Comments:	Using Power Setting 7			

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

Run #	10	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.447	19.9	20.1	40.0	56.9	-16.9
0.738	18.8	20.1	38.9	56.0	-17.1
4.416	17.0	20.2	37.2	56.0	-18.8
2.580	16.5	20.1	36.6	56.0	-19.4
0.208	23.2	20.1	43.3	63.3	-20.0
3.636	14.5	20.1	34.6	56.0	-21.4


Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.447	14.4	20.1	34.5	46.9	-12.4
0.738	10.9	20.1	31.0	46.0	-15.0
2.580	8.7	20.1	28.8	46.0	-17.2
4.416	8.2	20.2	28.4	46.0	-17.6
0.208	14.2	20.1	34.3	53.3	-19.0
3.636	5.5	20.1	25.6	46.0	-20.4



POWERLINE CONDUCTED EMISSIONS

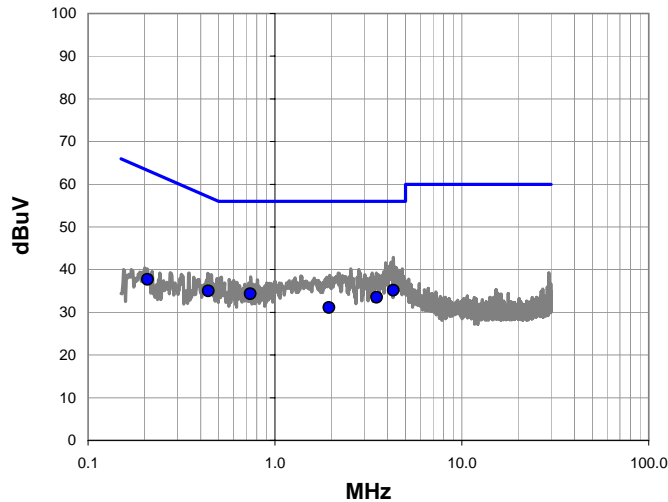
PSA-ESCI 2014.02.19
PSA-ESCI Version 2013.2.20

Work Order:	2GIG0021	Date:	04/21/14	
Project:	None	Temperature:	22.7 °C	
Job Site:	OC06	Humidity:	54.7% RH	
Serial Number:	15234	Barometric Pres.:	1017 mbar	
EUT:	Go!Bridge (2GIG-BRDG1-900)			
Configuration:	1			
Customer:	Linear LLC			
Attendees:	Verdin Orozco			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting at High Channel, 919.875 MHz			
Deviations:	None			
Comments:	Using Power Setting 7			

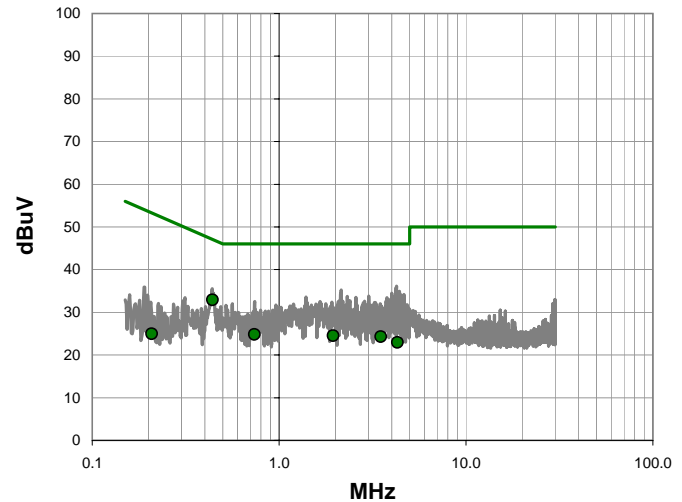
Test Specifications	Test Method
FCC 15.207:2014	ANSI C63.10:2009

Run #	11	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
4.304	15.0	20.1	35.1	56.0	-20.9
0.738	14.2	20.1	34.3	56.0	-21.7
0.440	14.9	20.1	35.0	57.1	-22.1
3.500	13.4	20.1	33.5	56.0	-22.5
1.948	11.0	20.1	31.1	56.0	-24.9
0.208	17.6	20.1	37.7	63.3	-25.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.440	12.8	20.1	32.9	47.1	-14.2
0.738	4.7	20.1	24.8	46.0	-21.2
1.948	4.4	20.1	24.5	46.0	-21.5
3.500	4.2	20.1	24.3	46.0	-21.7
4.304	2.8	20.1	22.9	46.0	-23.1
0.208	4.9	20.1	25.0	53.3	-28.3