



**iTextAlert LLC
ITA-1**

Report #: 7LAY0059



Report Prepared By Northwest EMC Inc.

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

California – Minnesota – Oregon – New York – Washington



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Last Date of Test: December 28, 2011

iTextAlert LLC

Model: ITA-1

Emissions

Test Description	Specification	Test Method	Pass/Fail
Occupied Bandwidth	FCC 15.247:2011	ACSI C63.10:2009	Pass
Output Power	FCC 15.247:2011	ACSI C63.10:2009	Pass
Band Edge Compliance	FCC 15.247:2011	ACSI C63.10:2009	Pass
Power Spectral Density	FCC 15.247:2011	ACSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.247:2011	ACSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.209:2011	ACSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2011	ACSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:

Tim O'Shea, Operations Manager



NVLAP Lab Code: 200676-0

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
41 Tesla Ave.
Irvine, CA 92618

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834B-1).

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		

FCC

Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.

NVLAP

Northwest EMC, Inc. is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. NVLAP is administered by the National Institute of Standards and Technology (NIST), an agency of the U.S. Commerce Department. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.

Industry Canada

Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS-Gen, Issue 2 and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2, Brooklyn Park: 2834E-1*)

CAB

Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.

Australia/New Zealand

The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).

VCCI

Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (*Registration Numbers.* - Hillsboro: C-1071, R-1025, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-3265, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634).

BSMI

Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017).

GOST

Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification

KCC

Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers:* Hillsboro: US0017, Irvine: US0158, Sultan: US0157, Brooklyn Park: US0175)

VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.

SCOPE

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

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



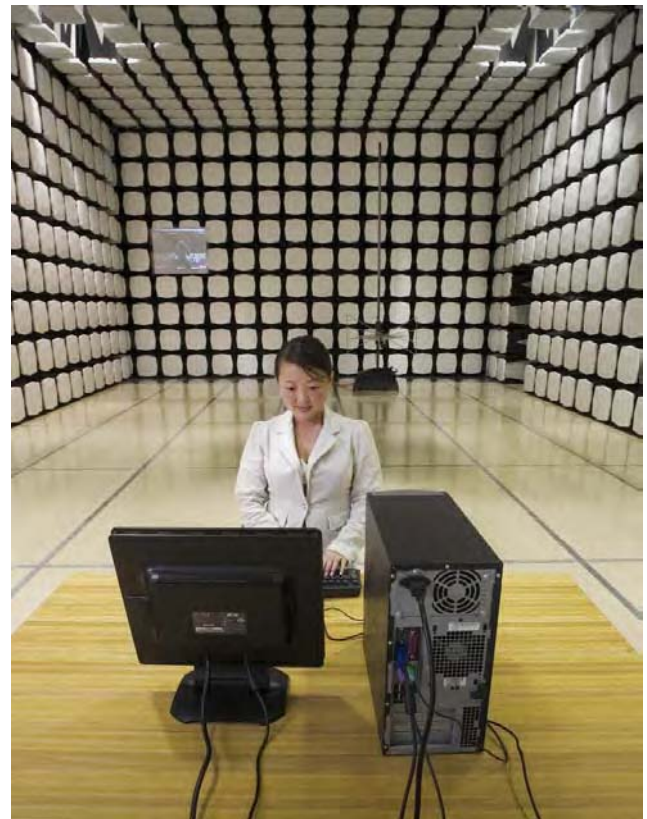
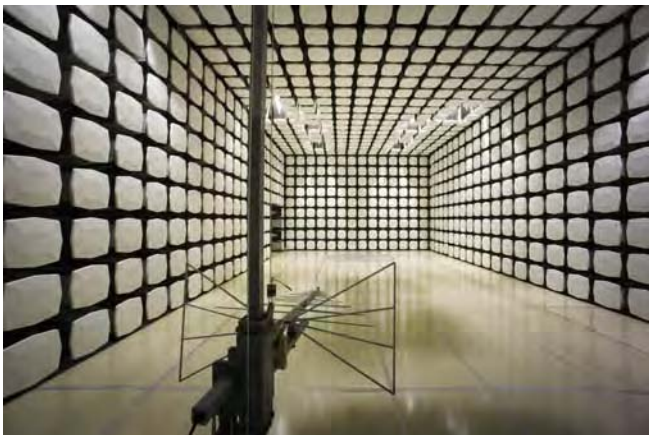
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
(949) 861-8918

Minnesota
Labs MN01-MN08
9349 W Broadway Ave.
Brooklyn Park,
MN 55445
(763) 425-2281

Washington
Labs SU01-SU07
14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

New York
Labs WA01-WA04
4939 Jordan Rd.
Elbridge, NY 13060
(315) 685-0796





Product Description

Client and Equipment Under Test (EUT) Information

Company Name:	iTextAlert LLC
Address:	111 East First Street
City, State, Zip:	Geneseo, IL 61254
Test Requested By:	Rick Trueblood
Model:	ITA-1
First Date of Test:	December 13, 2011
Last Date of Test:	December 28, 2011
Receipt Date of Samples:	December 12, 2011
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

ITA-1 Monitoring Hub with Integral antenna. Contains 802.11b/g/n and Zigbee radios.

Testing Objective:

To demonstrate compliance of the 802.11b/g/n radio to FCC 15.247 specifications.

Configuration 1 7LAY0059

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
ITA-1 Monitoring Hub	iTextAlert LLC	ITA-1	None

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
AC/DC Cable	V-Infinity	EPS050100	EPS050100-P5P
Dell Remote Laptop	Dell Corporation	RP05L	7T390 A03
AC/DC Adapter	Dell Corporation	AA22850	CN-0T2357-16291-446-046F

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	1.8m	No	ITA-1 Monitoring Hub	AC Mains
USB Cable	No	2.0m	No	Dell Remote Laptop	ITA-1 Monitoring Hub
AC Cable	No	0.7m	No	AC/DC Adapter	AC Mains
DC Cable	No	1.2m	No	AC/DC Adapter	Dell Remote Laptop
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	12/13/2011	AC 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.
2	12/20/2011	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.
3	12/20/2011	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.
4	12/22/2011	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.
5	12/23/2011	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.
6	12/28/2011	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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	3/8/2011	24
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	10/13/2011	12
Spectrum Analyzer	Agilent	E4446A	AAY	1/11/2011	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

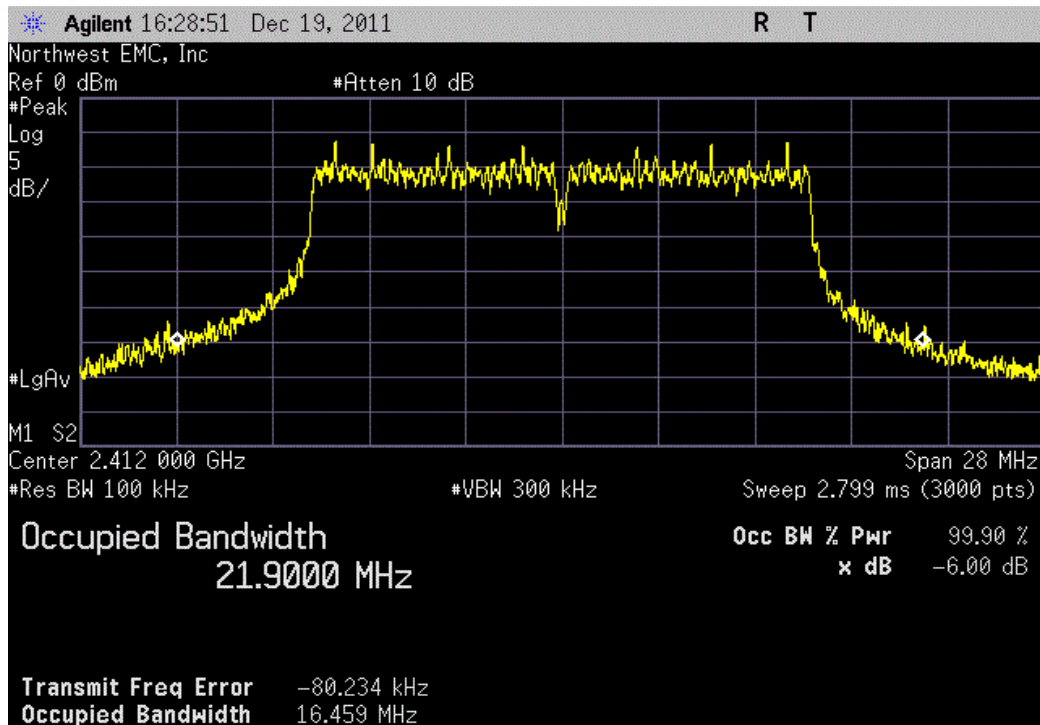
TEST DESCRIPTION

The occupied bandwidth was measured with the EUT 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 its maximum data rate with the typical modulation and a test duty cycle.

NORTHWEST		EMC		Occupied Bandwidth		XMit 2011.10.26 PsaTx 2011.09.28			
EUT: ITA-1				Work Order: 7LAY0059					
Serial Number: None				Date: 12/28/11					
Customer: iTextAlert LLC				Temperature: 22.63°C					
Attendees: None				Humidity: 33%					
Project: None				Barometric Pres.: 1012					
Tested by: Jaemi Suh		Power: 110VAC/60Hz		Job Site: OC10					
TEST SPECIFICATIONS						Test Method			
FCC 15.247:2011				ANSI C63.10:2009					
COMMENTS									
TX Power 11 dBm, Data Rates 18 Mbps									
DEVIATIONS FROM TEST STANDARD									
No Deviations									
Configuration #		1		Signature 					
Channel				Value		Limit		Result	
Low Channel (2412 MHz)				16.459 MHz		> 500 kHz		Pass	
Mid Channel (2437 MHz)				16.457 MHz		> 500 kHz		Pass	
High Channel (2467 MHz)				16.436 MHz		> 500 kHz		Pass	

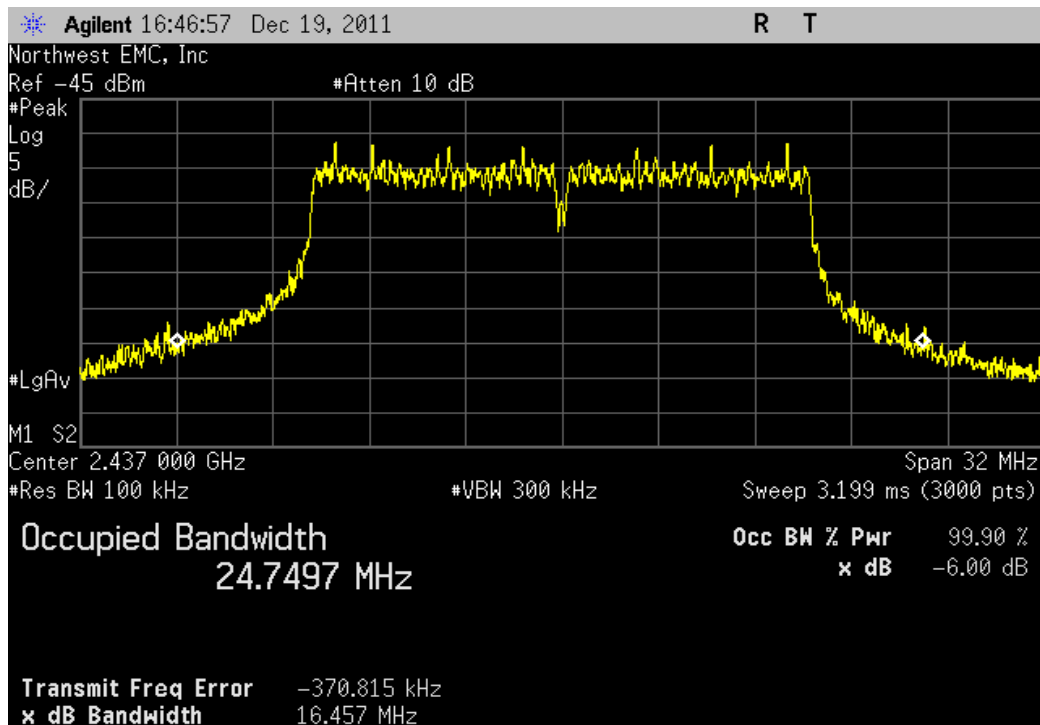
Low

Value	Limit	Result
16.459 MHz	> 500 kHz	Pass



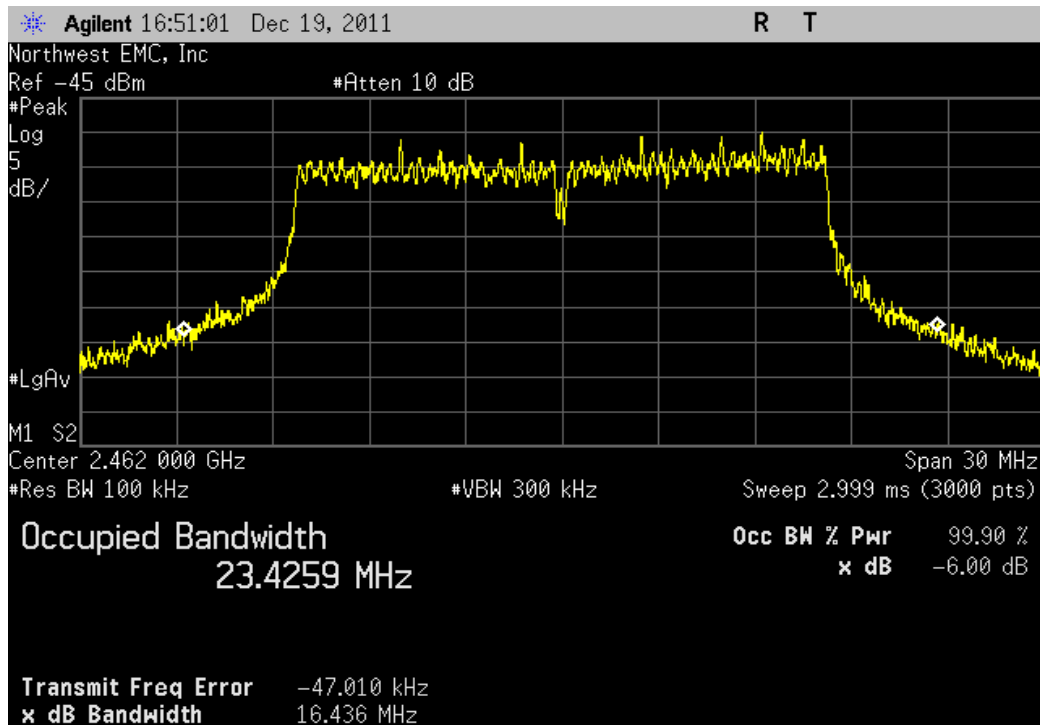
Mid

Value	Limit	Result
16.457 MHz	> 500 kHz	Pass



High

Value	Limit	Result
16.436 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

TX Power 11 dBm, Data Rates 18 Mbps

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

7LAY0059 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency 2400 MHz Stop Frequency 2480 MHz

CLOCKS AND OSCILLATORS

2412 MHz, 2437 MHz, 2467 MHz

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	3/8/2011	24 mo
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	10/13/2011	12 mo
Spectrum Analyzer	Agilent	E4446A	AAY	1/11/2011	12 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

Measurements were made using the IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth was used.

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

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 horn antenna in a semi-anechoic chamber. The resolution bandwidth was set to 3 MHz and the video bandwidth was set to 8 MHz. 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 +36dBm.



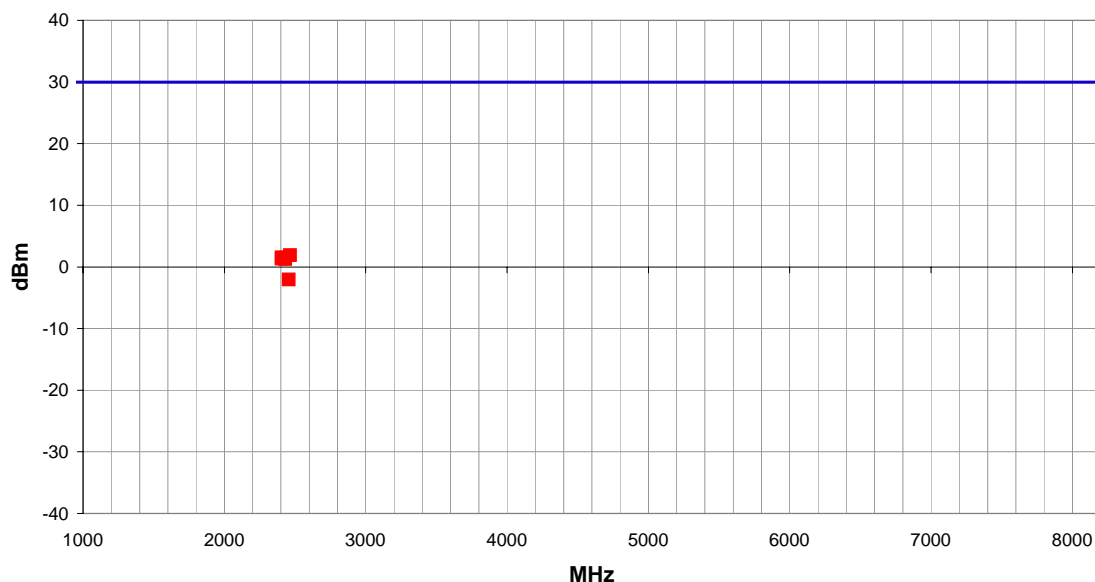
OUTPUT POWER

PSA-ESCI 2011.10.17
PSA-ESCI Version 2011.12.21

Work Order:	7LAY0059	Date:	12/22/11	
Project:	None	Temperature:	22.15 °C	
Job Site:	OC10	Humidity:	38.15% RH	
Serial Number:	None	Barometric Pres.:	1012 mbar	
EUT:	ITA-1			
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	TX Power 11 dBm, Data Rates 18 Mbps			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.209:2011	ANSI C63.10:2009

Run #	10	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)
2465.120	1.6	174.0	Vert	PK	1.55E-03	1.9	30.0	-28.1
2406.250	1.2	163.0	Vert	PK	1.43E-03	1.5	30.0	-28.5
2431.300	1.8	31.0	Horz	PK	1.40E-03	1.5	30.0	-28.5
2405.800	1.8	30.0	Horz	PK	1.36E-03	1.3	30.0	-28.7
2431.230	1.5	50.0	Vert	PK	1.33E-03	1.3	30.0	-28.7
2456.040	1.3	315.0	Horz	PK	6.26E-04	-2.0	30.0	-32.0

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
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	6/24/2011	12
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	10/13/2011	12
Spectrum Analyzer	Agilent	E4446A	AAY	1/11/2011	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

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 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 its only data rate available.

The spectrum was scanned across each band edge from at least 30 MHz below the band edge to 30 MHz above the band edge.

NORTHWEST

EMC

Band Edge Compliance

XMit 2011.10.26
PsaTx 2011.09.28

EUT: ITA-1		Work Order: 7LAY0059	
Serial Number: None		Date: 12/20/11	
Customer: iTextAlert LLC		Temperature: 22.63°C	
Attendees: None		Humidity: 33%	
Project: None		Barometric Pres.: 1012	
Tested by: Jaemi Suh	Power: 110VAC/60Hz	Job Site: OC10	


TEST SPECIFICATIONS		Test Method	
FCC 15.247:2011		ANSI C63.10:2009	

COMMENTS

TX Power 11 dBm, Data Rates 18 Mbps

DEVIATIONS FROM TEST STANDARD

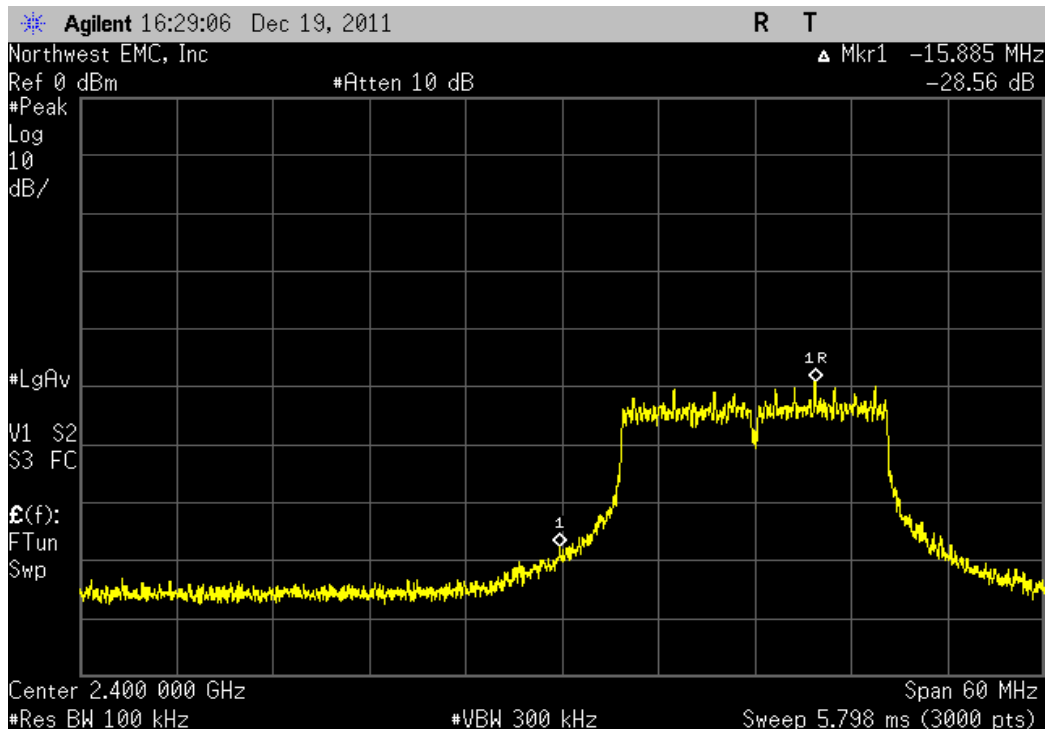
No Deviations

Configuration #	1	Signature	
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Channel	Value	Limit	Result
Low (2412 MHz)	-28.56 dBc	≤ -20 dBc	Pass
High (2467 MHz)	-32.93 dBc	≤ -20 dBc	Pass

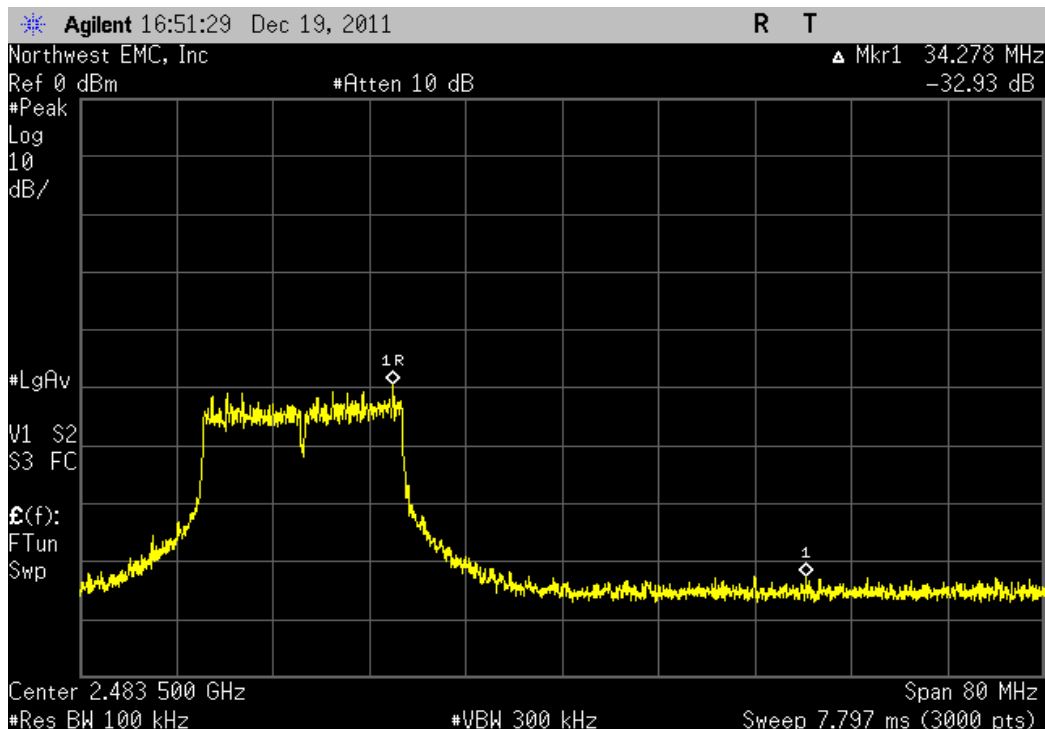
Low

	Value	Limit	Result
	-28.56 dBc	≤ -20 dBc	Pass



High

	Value	Limit	Result
	-32.93 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.

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Horn	EMCO	3115	AHB	3/8/2011	24
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	6/10/2011	12
Spectrum Analyzer	Agilent	E4446A	AAY	1/11/2011	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The peak power spectral density was measured with the EUT set to low, medium, and high transmit frequencies. The radiated power spectral density was measured using a spectrum analyzer and horn antenna in a semi-anechoic chamber. The EUT was transmitting at its maximum data rate for each modulation type available. The level of fundamental emission was maximized by rotating the turntable and moving the measurement antenna from 1 – 4 meters in height. Per the procedure outlined in ANSI C63.10:2009, the spectrum analyzer was used as follows:


The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be $1.5 \times 10^6 \div 3 \times 10^3 = 500$ seconds. The following FCC procedure was used for modifying the power spectral density measurements:

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 35 dB for correction to 3 kHz."

The field strength measurement of power spectral density was converted to effective radiated power spectral density (dBm/3kHz) (EIRP) using the Friis transmission equation. A simplified version is found in ANSI C63.10:2009, Equation 6.

EMC

POWER SPECTRAL DENSITY

EUT: ITA-1		Work Order: 7LAY0059	
Serial Number: None		Date: 12/20/11	
Customer: iTextAlert LLC		Temperature: 22.63°C	
Attendees: None		Humidity: 33%	
Project: None		Barometric Pres.: 1012	
Tested by: Jaemi Suh		Power: 110VAC/60Hz	Job Site: OC10
TEST SPECIFICATIONS			
FCC 15.247:2011		Test Method	
		ANSI C63.10:2009	
COMMENTS			
TX Power 11 dBm, Data Rates 18 Mbps			
DEVIATIONS FROM TEST STANDARD			
No Deviations			
Configuration #	1	Signature 	

	Value	Limit	Results
Low Channel (2412 MHz)	-28.5 dBm/3kHz, EIRP	<= 8 dBm/3kHz	Pass
Mid Channel (2437 MHz)	-31.4 dBm/3kHz, EIRP	<= 8 dBm/3kHz	Pass
High Channel (2467 MHz)	-28.7 dBm/3kHz, EIRP	<= 8 dBm/3kHz	Pass

EMC

POWER SPECTRAL DENSITY

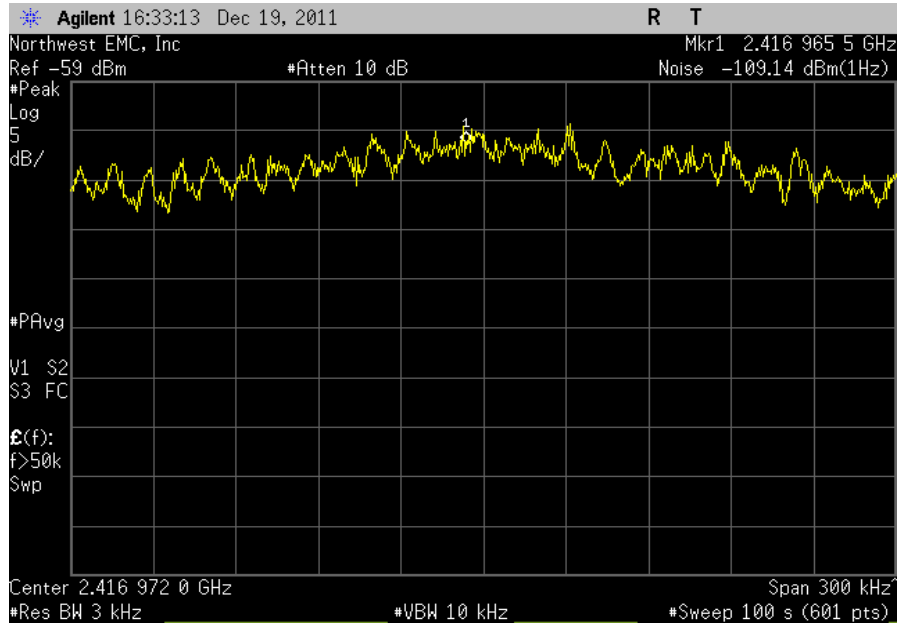
Low Channel

Result: Pass

Value: -28.5 dBm/3kHz, EIRP

Limit: <= 8 dBm/3kHz

Meter Reading (dBm/Hz)	Meter Reading (dBm/3kHz)	Factor (dB)	Field Strength PSD (dBm/3kHz/meter)	PSD EIRP (dBm/3kHz) (EIRP)
-109.14	-74.14	33.9	-40.24	-28.5



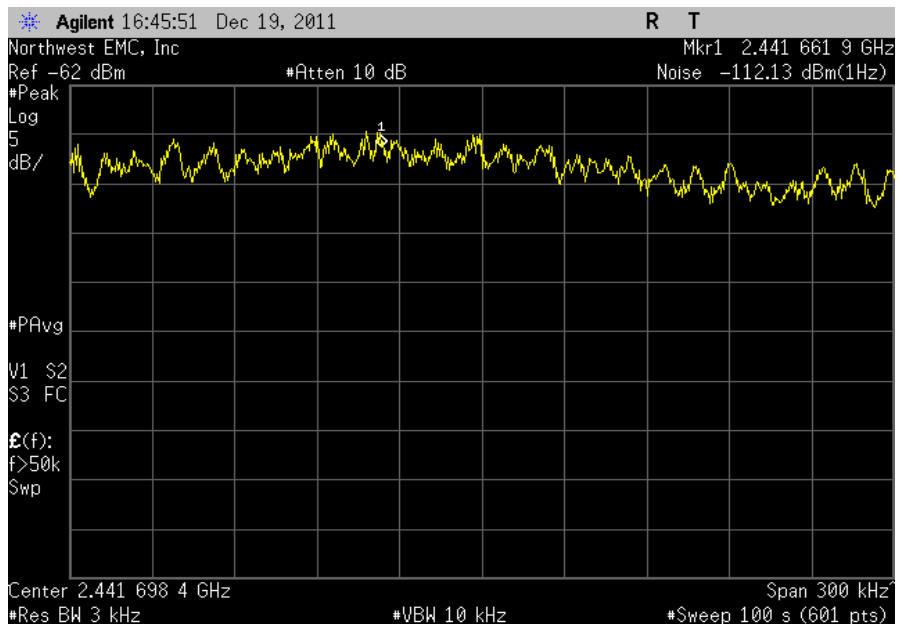
Mid Channel

Result: Pass

Value: -31.4 dBm/3kHz, EIRP

Limit: <= 8 dBm/3kHz

Meter Reading (dBm/Hz)	Meter Reading (dBm/3kHz)	Factor (dB)	Field Strength PSD (dBm/3kHz/meter)	PSD EIRP (dBm/3kHz) (EIRP)
-112.13	-77.13	34	-43.13	-31.4

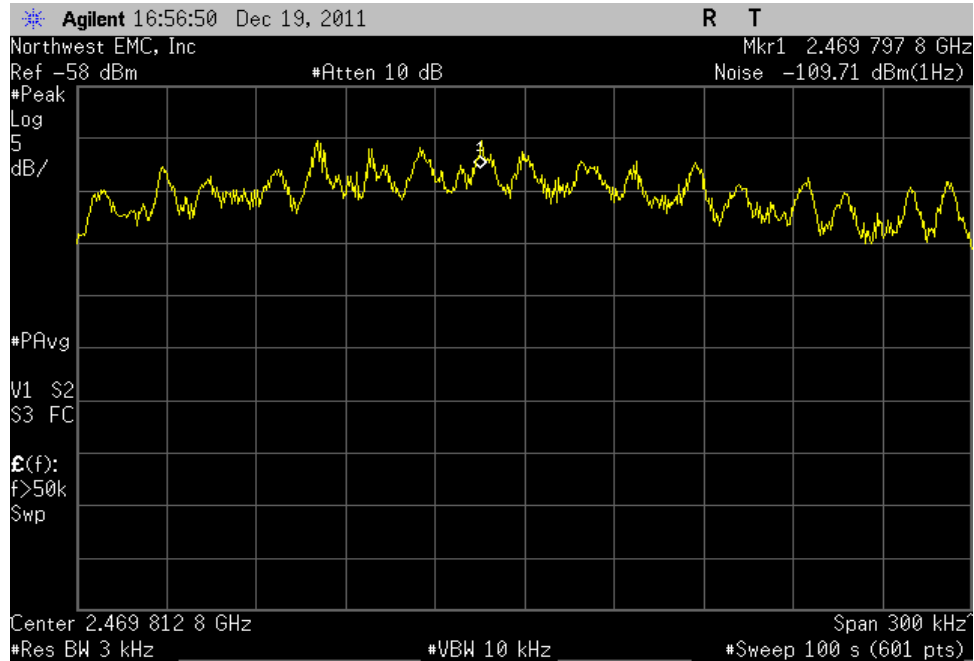


EMC

POWER SPECTRAL DENSITY

High Channel				
Result: Pass	Value: -28.7 dBm/3kHz, EIRP	Limit: <= 8 dBm/3kHz		

Meter Reading (dBm/Hz)	Meter Reading (dBm/3kHz)	Factor (dB)	Field Strength PSD (dBm/3kHz/meter)	PSD EIRP (dBm/3kHz) (EIRP)
-109.71	-74.71	34.2	-40.51	-28.7



SPURIOUS RADIATED EMISSIONS

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

TX Power 11 dBm, Data Rates 18 Mbps

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

7LAY0059 - 1

CHANNELS INVESTIGATED

Low Channel - 2412 MHz

Mid Channel - 2437 MHz

High Channel - 2467 MHz

AXIS INVESTIGATED

X, Y, and Z Axis

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz

Stop Frequency 26 GHz

CLOCKS AND OSCILLATORS

2412 MHz, 2437 MHz, 2467 MHz

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
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	4/29/2011	12 mo
Antenna, Horn	EMCO	3160-09	AHN	NCR	0 mo
OC floating Cable	N/A	18-26GHz RE Cables	OCK	4/29/2011	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	11/21/2011	12 mo
Antenna, Horn	ETS	3160-08	AHT	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	11/21/2011	12 mo
Antenna, Horn	ETS	3160-07	AHR	NCR	0 mo
OC 10 Cables	N/A	12-18GHz RE Cables	OCO	10/13/2011	12 mo
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	6/24/2011	12 mo
Antenna, Horn	EMCO	3115	AHB	3/8/2011	24 mo
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	10/13/2011	12 mo
Antenna, Biconilog	EMCO	3142	AXB	3/28/2011	12 mo
OC10 Cables	N/A	10kHz-1GHz RE Cables	OCH	6/24/2011	12 mo
Pre-Amplifier	Miteq	AM-1064-9079	AOO	6/28/2011	12 mo
Spectrum Analyzer	Agilent	E4446A	AAY	1/11/2011	12 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

Measurements were made using the IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth was used.


MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

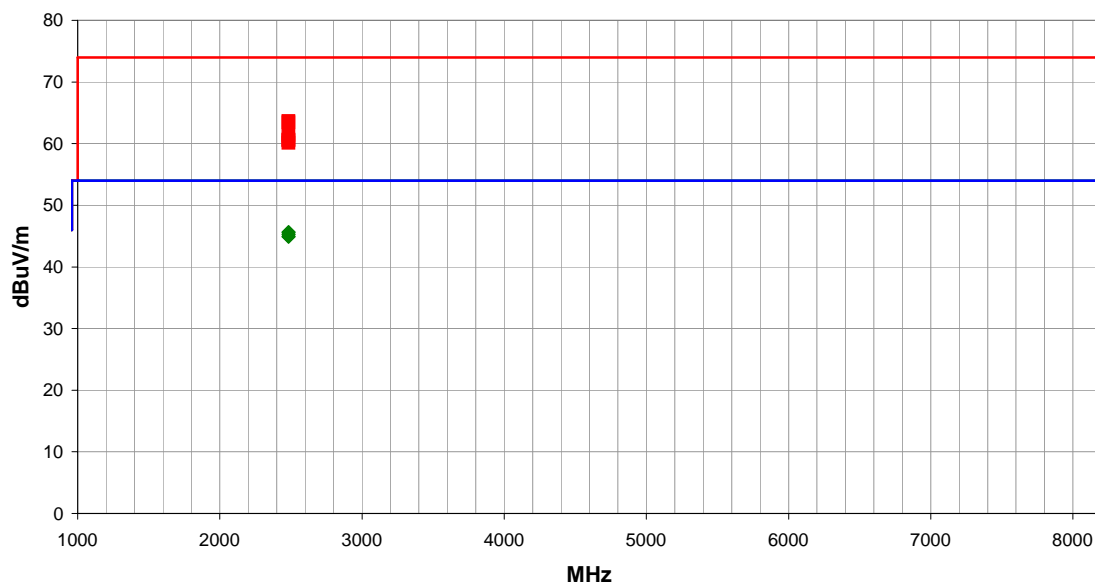
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify 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, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

SPURIOUS RADIATED EMISSIONS

Work Order:	7LAY0059	Date:	12/22/11	
Project:	None	Temperature:	22.15 °C	
Job Site:	OC10	Humidity:	38.15% RH	
Serial Number:	None	Barometric Pres.:	1012 mbar	
EUT:		ITA-1		
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	TX Power 11 dBm, Data Rates 18 Mbps			
Deviations:	None			
Comments:	Data Rate, Power Level set by software.			

Test Specifications	Test Method
FCC 15.209:2011	ANSI C63.10:2009

Run #	13	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
2483.500	23.8	1.8	1.0	191.0	3.0	20.0	Horz	AV	0.0	45.6	54.0	-8.4	Y-Axis
2483.500	23.8	1.8	2.3	228.0	3.0	20.0	Horz	AV	0.0	45.6	54.0	-8.4	Z-Axis
2483.500	23.5	1.8	1.6	12.0	3.0	20.0	Horz	AV	0.0	45.3	54.0	-8.7	X-Axis
2483.500	23.4	1.8	2.2	232.0	3.0	20.0	Vert	AV	0.0	45.2	54.0	-8.8	X-Axis
2483.500	23.1	1.8	1.0	198.0	3.0	20.0	Vert	AV	0.0	44.9	54.0	-9.1	Y-Axis
2483.500	23.1	1.8	1.0	266.0	3.0	20.0	Vert	AV	0.0	44.9	54.0	-9.1	Z-Axis
2483.500	41.8	1.8	2.3	228.0	3.0	20.0	Horz	PK	0.0	63.6	74.0	-10.4	Z-Axis
2483.500	41.6	1.8	1.0	191.0	3.0	20.0	Horz	PK	0.0	63.4	74.0	-10.6	Y-Axis
2483.500	39.6	1.8	1.6	12.0	3.0	20.0	Horz	PK	0.0	61.4	74.0	-12.6	X-Axis
2483.500	38.8	1.8	1.0	266.0	3.0	20.0	Vert	PK	0.0	60.6	74.0	-13.4	Z-Axis
2483.500	38.7	1.8	2.2	232.0	3.0	20.0	Vert	PK	0.0	60.5	74.0	-13.5	X-Axis
2483.500	38.3	1.8	1.0	198.0	3.0	20.0	Vert	PK	0.0	60.1	74.0	-13.9	Y-Axis



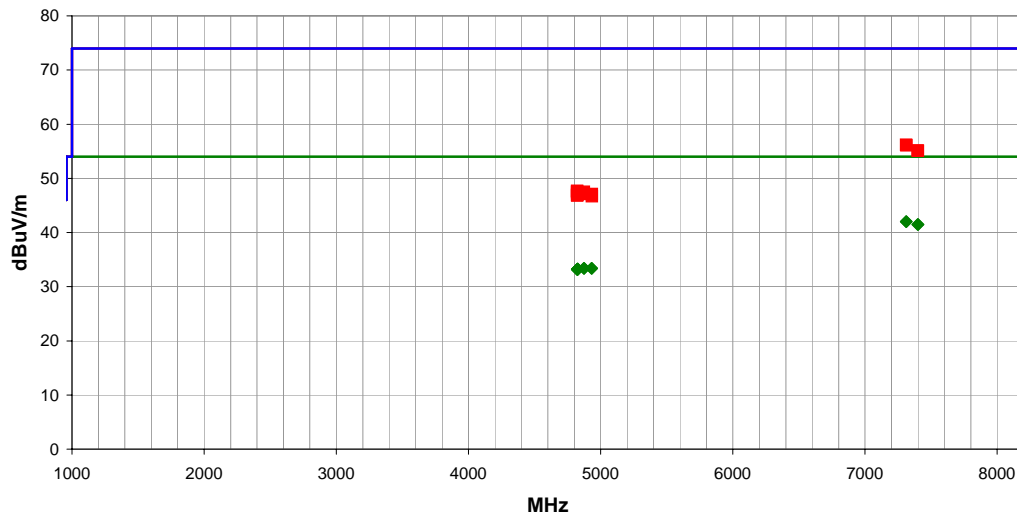
SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2011.10.17
PSA-ESCI Version 2011.12.21

Work Order:	7LAY0059	Date:	12/23/11	
Project:	None	Temperature:	22.15 °C	
Job Site:	OC10	Humidity:	38.15% RH	
Serial Number:	None	Barometric Pres.:	1012 mbar	Tested by: Jaemi Suh
EUT:	ITA-1			
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	TX Power 11 dBm, Data Rates 18 Mbps			
Deviations:	None			
Comments:	Data Rate, Power Level set by software.			

Test Specifications	Test Method
FCC 15.247:2011	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
7311.240	25.3	16.7	1.0	43.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	Ch.6, EUT on side
7311.440	25.3	16.7	1.0	171.0	3.0	0.0	Horz	AV	0.0	42.0	54.0	-12.0	Ch.6, EUT on side
7399.627	24.9	16.6	1.0	138.0	3.0	0.0	Vert	AV	0.0	41.5	54.0	-12.5	Ch.11, EUT on side
7400.213	24.9	16.5	1.0	25.0	3.0	0.0	Horz	AV	0.0	41.4	54.0	-12.6	Ch.11, EUT on side
7311.547	39.5	16.7	1.0	43.0	3.0	0.0	Vert	PK	0.0	56.2	74.0	-17.8	Ch.6, EUT on side
7313.000	39.4	16.7	1.0	171.0	3.0	0.0	Horz	PK	0.0	56.1	74.0	-17.9	Ch.6, EUT on side
7399.233	38.6	16.6	1.0	25.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	Ch.11, EUT on side
7400.000	38.5	16.6	1.0	138.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	Ch.11, EUT on side
4874.147	23.6	9.8	1.6	57.0	3.0	0.0	Horz	AV	0.0	33.4	54.0	-20.6	Ch.6, EUT on side
4873.100	23.6	9.8	3.6	181.0	3.0	0.0	Vert	AV	0.0	33.4	54.0	-20.6	Ch.6, EUT on side
4932.140	23.3	10.1	1.0	172.0	3.0	0.0	Horz	AV	0.0	33.4	54.0	-20.6	Ch.11, EUT on side
4932.047	23.3	10.1	1.0	319.0	3.0	0.0	Vert	AV	0.0	33.4	54.0	-20.6	Ch.11, EUT on side
4825.987	23.7	9.6	1.0	216.0	3.0	0.0	Vert	AV	0.0	33.3	54.0	-20.7	Ch.1, EUT on side
4824.253	23.7	9.6	1.0	258.0	3.0	0.0	Horz	AV	0.0	33.3	54.0	-20.7	Ch.1, EUT horizontal
4824.900	23.6	9.6	1.1	50.0	3.0	0.0	Horz	AV	0.0	33.2	54.0	-20.8	Ch.1, EUT vertical
4824.053	23.6	9.6	3.4	162.0	3.0	0.0	Vert	AV	0.0	33.2	54.0	-20.8	Ch.1, EUT vertical
4823.193	23.6	9.6	1.0	265.0	3.0	0.0	Vert	AV	0.0	33.2	54.0	-20.8	Ch.1, EUT horizontal
4822.287	23.6	9.6	1.0	235.0	3.0	0.0	Horz	AV	0.0	33.2	54.0	-20.8	Ch.1, EUT on side
4823.547	38.1	9.6	1.1	50.0	3.0	0.0	Horz	PK	0.0	47.7	74.0	-26.3	Ch.1, EUT vertical
4823.287	38.0	9.6	1.0	235.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	Ch.1, EUT on side
4874.400	37.7	9.8	3.6	181.0	3.0	0.0	Vert	PK	0.0	47.5	74.0	-26.5	Ch.6, EUT on side
4823.033	37.8	9.6	3.4	162.0	3.0	0.0	Vert	PK	0.0	47.4	74.0	-26.6	Ch.1, EUT vertical
4873.333	37.3	9.8	1.6	57.0	3.0	0.0	Horz	PK	0.0	47.1	74.0	-26.9	Ch.6, EUT on side
4933.500	37.0	10.1	1.0	319.0	3.0	0.0	Vert	PK	0.0	47.1	74.0	-26.9	Ch.11, EUT on side
4823.540	37.4	9.6	1.0	258.0	3.0	0.0	Horz	PK	0.0	47.0	74.0	-27.0	Ch.1, EUT horizontal
4825.807	37.3	9.6	1.0	216.0	3.0	0.0	Vert	PK	0.0	46.9	74.0	-27.1	Ch.1, EUT on side
4822.980	37.2	9.6	1.0	265.0	3.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	Ch.1, EUT horizontal
4933.913	36.6	10.1	1.0	172.0	3.0	0.0	Horz	PK	0.0	46.7	74.0	-27.3	Ch.11, EUT on side



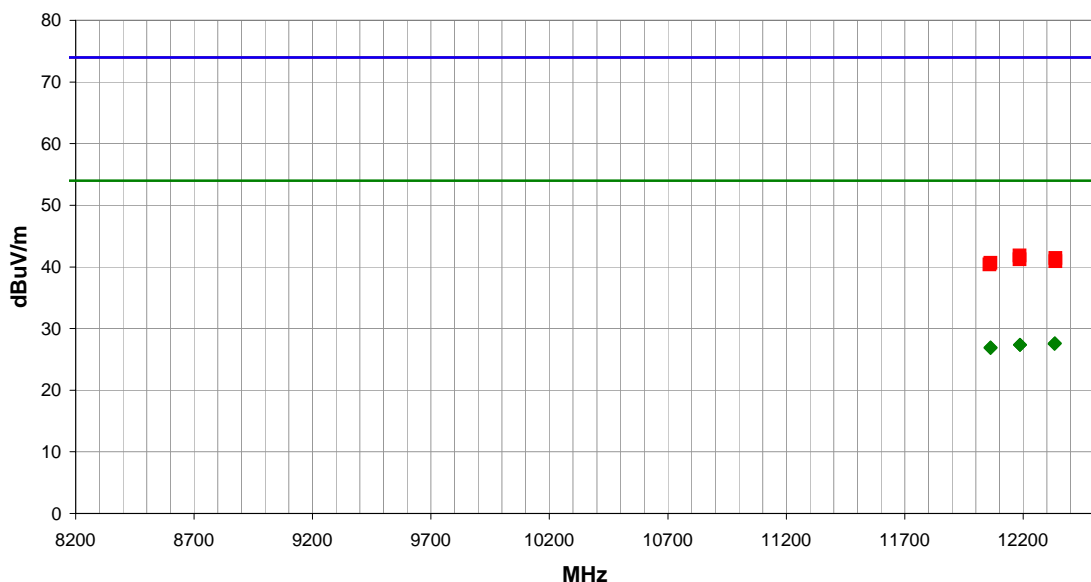
SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2011.10.17
PSA-ESCI Version 2011.12.21

Work Order:	7LAY0059	Date:	12/23/11	
Project:	None	Temperature:	22.15 °C	
Job Site:	OC10	Humidity:	38.15% RH	
Serial Number:	None	Barometric Pres.:	1012 mbar	
EUT:		ITA-1		
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	TX Power 11 dBm, Data Rates 18 Mbps			
Deviations:	None			
Comments:	Data Rate, Power Level set by software.			

Test Specifications	Test Method
FCC 15.247:2011	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
12333.260	34.2	-6.6	1.0	68.0	3.0	0.0	Vert	AV	0.0	27.6	54.0	-26.4	Ch.11, EUT on side
12333.110	34.1	-6.6	1.0	176.0	3.0	0.0	Horz	AV	0.0	27.5	54.0	-26.5	Ch.11, EUT on side
12186.950	34.8	-7.4	1.0	262.0	3.0	0.0	Horz	AV	0.0	27.4	54.0	-26.6	Ch.6, EUT on side
12186.850	34.8	-7.4	1.0	6.0	3.0	0.0	Vert	AV	0.0	27.4	54.0	-26.6	Ch.6, EUT on side
12061.990	35.1	-8.2	1.0	255.0	3.0	0.0	Vert	AV	0.0	26.9	54.0	-27.1	Ch.1, EUT on side
12061.990	35.0	-8.2	1.3	148.0	3.0	0.0	Horz	AV	0.0	26.8	54.0	-27.2	Ch.1, EUT on side
12185.770	49.3	-7.5	1.0	6.0	3.0	0.0	Vert	PK	0.0	41.8	74.0	-32.2	Ch.6, EUT on side
12336.590	48.0	-6.6	1.0	68.0	3.0	0.0	Vert	PK	0.0	41.4	74.0	-32.6	Ch.11, EUT on side
12184.850	48.7	-7.5	1.0	262.0	3.0	0.0	Horz	PK	0.0	41.2	74.0	-32.8	Ch.6, EUT on side
12336.210	47.5	-6.6	1.0	176.0	3.0	0.0	Horz	PK	0.0	40.9	74.0	-33.1	Ch.11, EUT on side
12061.910	48.8	-8.2	1.3	148.0	3.0	0.0	Horz	PK	0.0	40.6	74.0	-33.4	Ch.1, EUT on side
12058.860	48.6	-8.2	1.0	255.0	3.0	0.0	Vert	PK	0.0	40.4	74.0	-33.6	Ch.1, EUT on side

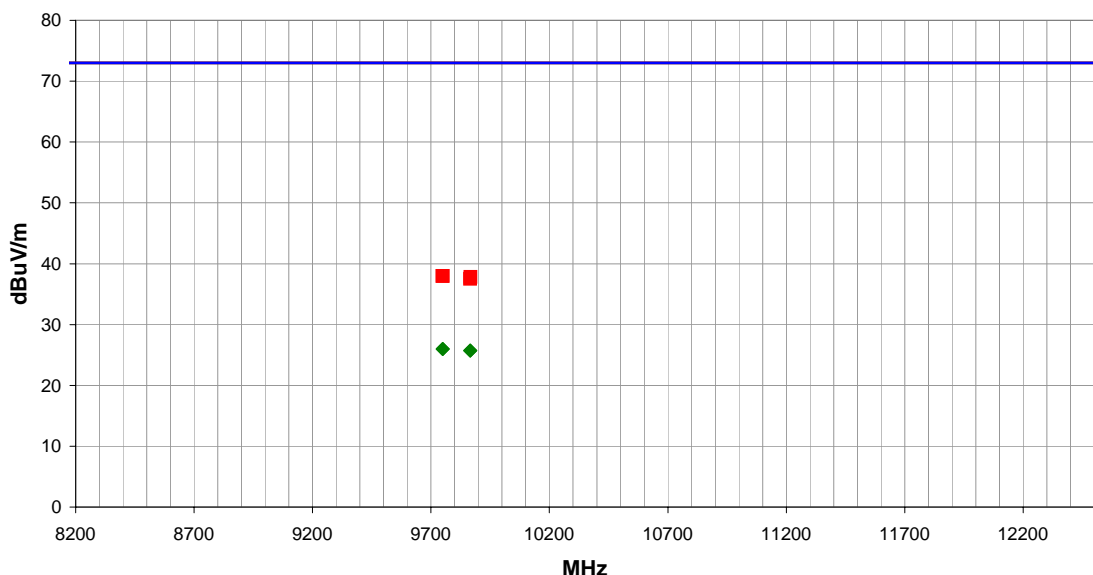


SPURIOUS RADIATED EMISSIONS

Work Order:	7LAY0059	Date:	12/23/11	
Project:	None	Temperature:	22.15 °C	
Job Site:	OC10	Humidity:	38.15% RH	
Serial Number:	None	Barometric Pres.:	1012 mbar	
EUT:		ITA-1		
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	TX Power 11 dBm, Data Rates 18 Mbps			
Deviations:	None			
Comments:	Data Rate, Power Level set by software. Outside restricted band measurements. Limit = Lowest Radiated Output power - 20dB = 93.2dBuV/m - 20dB=73.2dBuV/m			


Test Specifications	Test Method
FCC 15.209:2011	ANSI C63.10:2009

Run #	21	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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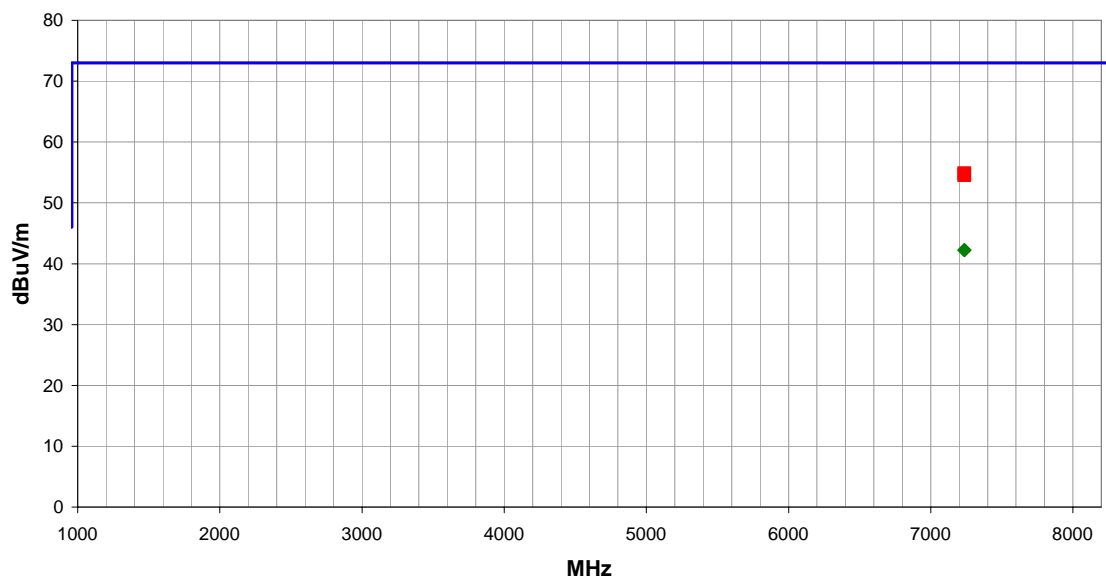
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
9749.900	34.8	-8.8	1.3	1.0	3.0	0.0	Horz	AV	0.0	26.0	73.2	-47.2	Ch.6, EUT on side
9749.947	34.8	-8.8	1.3	1.0	3.0	0.0	Vert	AV	0.0	26.0	73.2	-47.2	Ch.6, EUT on side
9866.000	34.7	-9.0	1.3	1.0	3.0	0.0	Horz	AV	0.0	25.7	73.2	-47.5	Ch.11, EUT on side
9866.247	34.7	-9.0	1.3	1.0	3.0	0.0	Vert	AV	0.0	25.7	73.2	-47.5	Ch.11, EUT on side
9749.293	46.8	-8.8	1.3	1.0	3.0	0.0	Vert	PK	0.0	38.0	73.2	-35.2	Ch.6, EUT on side
9749.513	46.8	-8.8	1.3	1.0	3.0	0.0	Horz	PK	0.0	38.0	73.2	-35.2	Ch.6, EUT on side
9866.633	46.8	-9.0	1.3	1.0	3.0	0.0	Horz	PK	0.0	37.8	73.2	-35.4	Ch.11, EUT on side
9866.020	46.5	-9.0	1.3	1.0	3.0	0.0	Vert	PK	0.0	37.5	73.2	-35.7	Ch.11, EUT on side

SPURIOUS RADIATED EMISSIONS

Work Order:	7LAY0059	Date:	12/23/11	
Project:	None	Temperature:	22.15 °C	
Job Site:	OC10	Humidity:	38.15% RH	
Serial Number:	None	Barometric Pres.:	1012 mbar	
EUT:		ITA-1		
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	TX Power 11 dBm, Data Rates 18 Mbps			
Deviations:	None			
Comments:	Data Rate, Power Level set by software. Outside restricted band measurements. Limit = Lowest Radiated Output power - 20dB = 93.2dBuV/m - 20dB = 73.2dBuV/m			

Test Specifications	Test Method
FCC 15.209:2011	ANSI C63.10:2009

Run #	22	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
7237.820	25.7	16.6	1.3	1.0	3.0	0.0	Vert	AV	0.0	42.3	73.2	-30.9	Ch.1, EUT on side
7237.567	25.7	16.6	1.3	1.0	3.0	0.0	Horz	AV	0.0	42.3	73.2	-30.9	Ch.1, EUT on side
7237.140	38.3	16.6	1.3	1.0	3.0	0.0	Horz	PK	0.0	54.9	73.2	-18.3	Ch.1, EUT on side
7235.700	38.0	16.5	1.3	1.0	3.0	0.0	Vert	PK	0.0	54.5	73.2	-18.7	Ch.1, EUT on side

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

WLAN. Channel 11. Transmitting at 2467 MHz

WLAN. Channel 6. Transmitting at 2437 MHz.

WLAN. Channel 1. Transmitting at 2412 MHz.

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

7LAY0059-1

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-R-24-BNC	LIC	4/26/2011	12 mo
LISN	Solar	9252-50-24-BNC	LIA	6/13/2011	12 mo
Attenuator	Pasternack	6N10W-20	AWC	3/2/2011	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HFP	3/8/2010	24 mo
OC06 Cables	N/A	Telecom Cables	OCP	4/7/2011	12 mo
OC06 Cables	N/A	CE Cables	OCM	4/7/2011	12 mo
Receiver	Rohde & Schwarz	ESCI	ARF	4/1/2011	12 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


Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

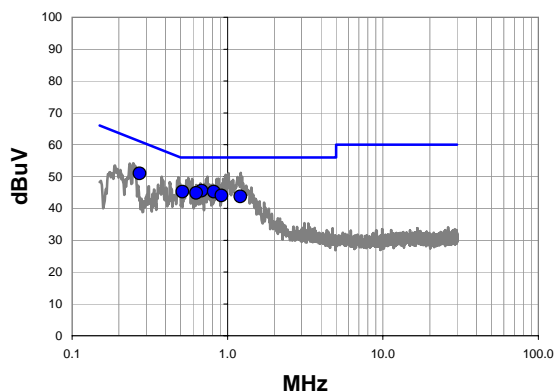
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

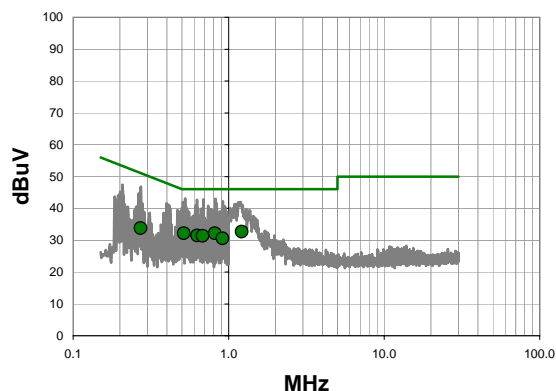
The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. 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.

Work Order:	7LAY0059	Date:	12/13/11				
Project:	None	Temperature:	18.43 °C				
Job Site:	OC06	Humidity:	47.15% RH				
Serial Number:	None	Barometric Pres.:	1012.5 mbar				
EUT:	ITA-1						
Configuration:	1						
Customer:	iTextAlert LLC						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	WLAN. Channel 1. Transmitting at 2412 MHz.						
Deviations:	None						
Comments:	Power: 11 dBm, Data Rate: 18 Mbps.						
Test Specifications				Test Method			
FCC 15.207:2011				ANSI C63.10:2009			
Run #	16	Line:	High Line	Ext. Attenuation:	20	Results	Pass

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)
0.272	30.9	20.1	51.0	61.1	-10.1
0.681	25.4	20.1	45.5	56.0	-10.5
0.514	25.1	20.1	45.2	56.0	-10.8
0.815	25.1	20.1	45.2	56.0	-10.8
0.630	24.7	20.1	44.8	56.0	-11.2
0.914	23.9	20.1	44.0	56.0	-12.0
1.212	23.6	20.1	43.7	56.0	-12.3


Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.212	12.6	20.1	32.7	46.0	-13.3
0.514	12.1	20.1	32.2	46.0	-13.8
0.815	12.1	20.1	32.2	46.0	-13.8
0.630	11.4	20.1	31.5	46.0	-14.5
0.681	11.3	20.1	31.4	46.0	-14.6
0.914	10.5	20.1	30.6	46.0	-15.4
0.272	13.7	20.1	33.8	51.1	-17.3



AC POWERLINE CONDUCTED EMISSIONS

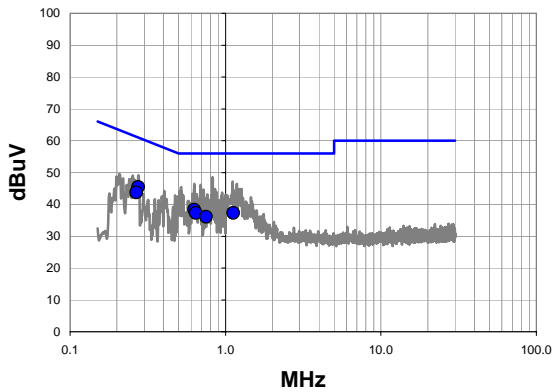
PSA-ESCI 2011.10.17
PSA-ESCI Version 2011.06.23

Work Order:	7LAY0059	Date:	12/13/11	
Project:	None	Temperature:	18.43 °C	
Job Site:	OC06	Humidity:	47.15% RH	
Serial Number:	None	Barometric Pres.:	1012.5 mbar	
EUT:		ITA-1		
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	WLAN. Channel 1. Transmitting at 2412 MHz.			
Deviations:	None			
Comments:	Power: 11 dBm, Data Rate: 18 Mbps.			

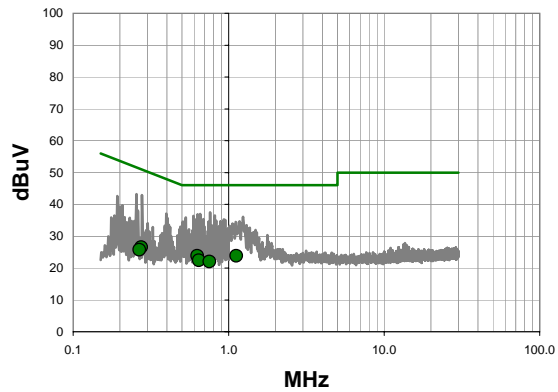
Test Specifications	Test Method
FCC 15.207:2011	ANSI C63.10:2009

Run #	17	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)
0.274	25.3	20.1	45.4	61.0	-15.6
0.267	23.6	20.1	43.7	61.2	-17.5
0.629	18.2	20.1	38.3	56.0	-17.7
1.120	17.2	20.1	37.3	56.0	-18.7
0.645	17.2	20.1	37.3	56.0	-18.7
0.751	16.0	20.1	36.1	56.0	-19.9

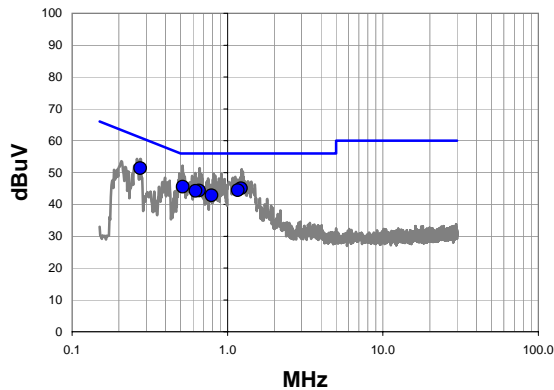
Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.120	3.7	20.1	23.8	46.0	-22.2
0.629	3.7	20.1	23.8	46.0	-22.2
0.645	2.3	20.1	22.4	46.0	-23.6
0.751	1.9	20.1	22.0	46.0	-24.0
0.274	6.4	20.1	26.5	51.0	-24.5
0.267	5.6	20.1	25.7	51.2	-25.5

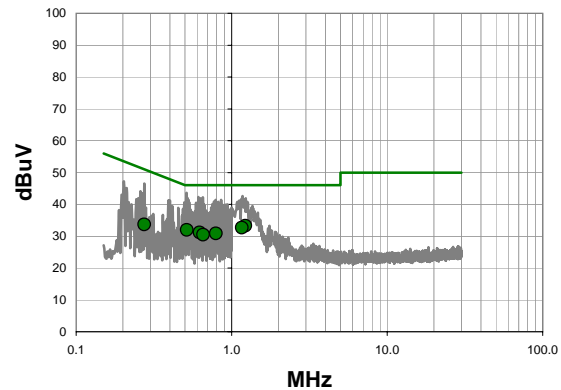
Work Order:	7LAY0059	Date:	12/13/11	
Project:	None	Temperature:	18.43 °C	
Job Site:	OC06	Humidity:	47.15% RH	
Serial Number:	None	Barometric Pres.:	1012.5 mbar	
EUT:	ITA-1			
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	WLAN. Channel 6. Transmitting at 2437 MHz.			
Deviations:	None			
Comments:	Power: 11 dBm, Data Rate: 18 Mbps.			

Test Specifications				Test Method			
FCC 15.207:2011				ANSI C63.10:2009			
Run #	18	Line:	High Line	Ext. Attenuation:	20	Results	Pass

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)
0.274	31.3	20.1	51.4	61.0	-9.6
0.516	25.4	20.1	45.5	56.0	-10.5
1.224	24.9	20.1	45.0	56.0	-11.0
1.164	24.3	20.1	44.4	56.0	-11.6
0.656	24.2	20.1	44.3	56.0	-11.7
0.624	24.1	20.1	44.2	56.0	-11.8
0.791	22.7	20.1	42.8	56.0	-13.2

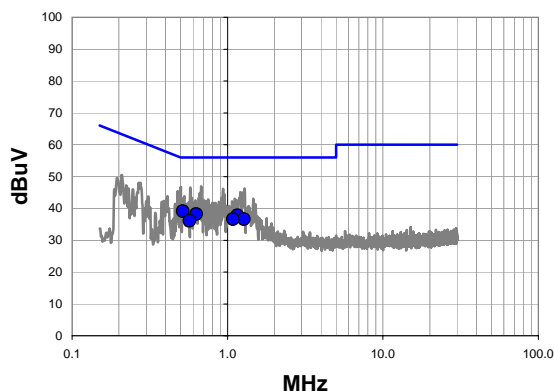
Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.224	13.2	20.1	33.3	46.0	-12.7
1.164	12.6	20.1	32.7	46.0	-13.3
0.516	11.9	20.1	32.0	46.0	-14.0
0.624	11.1	20.1	31.2	46.0	-14.8
0.791	10.8	20.1	30.9	46.0	-15.1
0.656	10.4	20.1	30.5	46.0	-15.5
0.274	13.6	20.1	33.7	51.0	-17.3

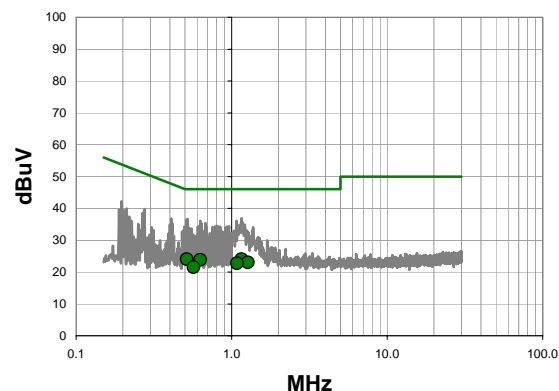
Work Order:	7LAY0059	Date:	12/13/11	
Project:	None	Temperature:	18.43 °C	
Job Site:	OC06	Humidity:	47.15% RH	
Serial Number:	None	Barometric Pres.:	1012.5 mbar	
EUT:		ITA-1		
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	WLAN. Channel 6. Transmitting at 2437 MHz.			
Deviations:	None			
Comments:	Power: 11 dBm, Data Rate: 18 Mbps.			

Test Specifications				Test Method			
FCC 15.207:2011				ANSI C63.10:2009			
Run #	19	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

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)
0.515	19.0	20.1	39.1	56.0	-16.9
0.629	18.1	20.1	38.2	56.0	-17.8
1.160	17.7	20.1	37.8	56.0	-18.2
1.276	16.5	20.1	36.6	56.0	-19.4
1.084	16.5	20.1	36.6	56.0	-19.4
0.569	16.0	20.1	36.1	56.0	-19.9

Average Data - vs - Average Limit

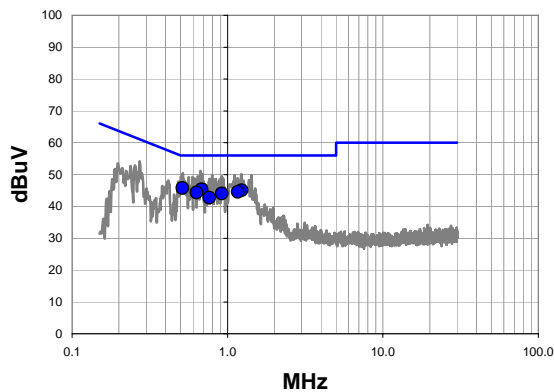
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.160	3.9	20.1	24.0	46.0	-22.0
0.515	3.9	20.1	24.0	46.0	-22.0
0.629	3.7	20.1	23.8	46.0	-22.2
1.276	2.9	20.1	23.0	46.0	-23.0
1.084	2.6	20.1	22.7	46.0	-23.3
0.569	1.4	20.1	21.5	46.0	-24.5

Work Order:	7LAY0059	Date:	12/13/11		
Project:	None	Temperature:	18.43 °C		
Job Site:	OC06	Humidity:	47.15% RH		
Serial Number:	None	Barometric Pres.:	1012.5 mbar	Tested by:	Jaemi Suh
EUT:	ITA-1				
Configuration:	1				
Customer:	iTextAlert LLC				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	WLAN. Channel 11. Transmitting at 2467 MHz				
Deviations:	None				
Comments:	Power: 11 dBm, Data Rate: 18 Mbps.				

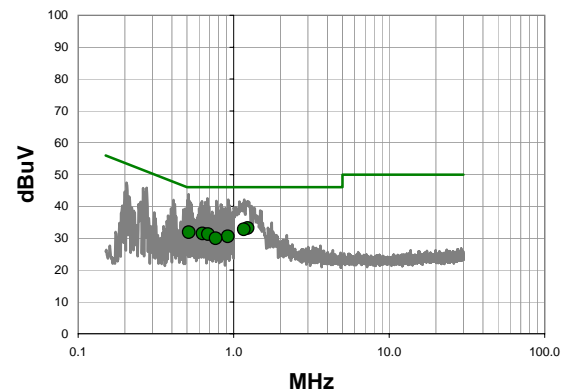
Test Specifications	Test Method
FCC 15.207:2011	ANSI C63.10:2009

Run #	20	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)
0.514	25.6	20.1	45.7	56.0	-10.3
0.683	25.2	20.1	45.3	56.0	-10.7
1.232	24.9	20.1	45.0	56.0	-11.0
1.164	24.4	20.1	44.5	56.0	-11.5
0.632	24.2	20.1	44.3	56.0	-11.7
0.919	23.9	20.1	44.0	56.0	-12.0
0.766	22.6	20.1	42.7	56.0	-13.3

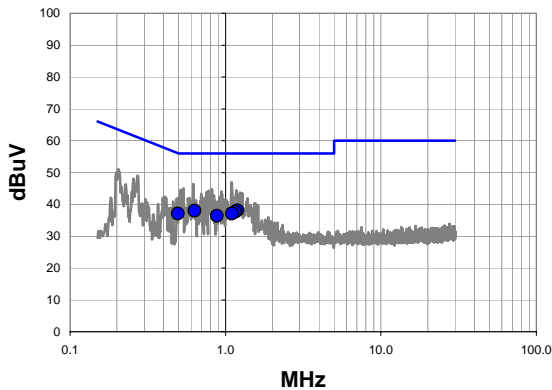
Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.232	13.1	20.1	33.2	46.0	-12.8
1.164	12.7	20.1	32.8	46.0	-13.2
0.514	11.8	20.1	31.9	46.0	-14.1
0.632	11.4	20.1	31.5	46.0	-14.5
0.683	11.2	20.1	31.3	46.0	-14.7
0.919	10.5	20.1	30.6	46.0	-15.4
0.766	9.8	20.1	29.9	46.0	-16.1

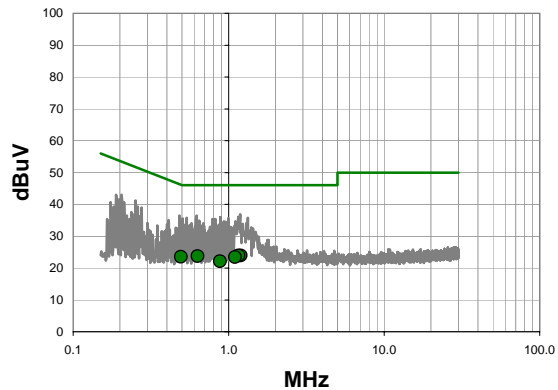
Work Order:	7LAY0059	Date:	12/13/11	
Project:	None	Temperature:	18.43 °C	
Job Site:	OC06	Humidity:	47.15% RH	
Serial Number:	None	Barometric Pres.:	1012.5 mbar	
EUT:		ITA-1		
Configuration:	1			
Customer:	iTextAlert LLC			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	WLAN. Channel 11. Transmitting at 2467 MHz			
Deviations:	None			
Comments:	Power: 11 dBm, Data Rate: 18 Mbps.			

Test Specifications				Test Method			
FCC 15.207:2011				ANSI C63.10:2009			
Run #	21	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

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)
1.196	18.0	20.1	38.1	56.0	-17.9
0.631	17.9	20.1	38.0	56.0	-18.0
1.156	17.5	20.1	37.6	56.0	-18.4
1.100	17.0	20.1	37.1	56.0	-18.9
0.494	17.0	20.1	37.1	56.1	-19.0
0.880	16.3	20.1	36.4	56.0	-19.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.196	3.8	20.1	23.9	46.0	-22.1
1.156	3.8	20.1	23.9	46.0	-22.1
0.631	3.6	20.1	23.7	46.0	-22.3
1.100	3.3	20.1	23.4	46.0	-22.6
0.494	3.4	20.1	23.5	46.1	-22.6
0.880	2.0	20.1	22.1	46.0	-23.9