



CERTIFICATION TEST REPORT PART 15.247C IC RSS-210

For The Wireless Door Controller Model: WDC

FCC ID: WEF-WDC IC: 7713A-WDC

PREPARED FOR:

Stanley Security Solutions 6161 E. 75th Street Indianapolis, IN 46250

Prepared on: April 30, 2008

Report Number: 2008 04106333 FCC

Project Number: 12552-1

NEx Number: 106333

Total Pages: 51

		Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
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DOCUMENT HISTORY

REVISION	DATE	C	OMMENTS
-	April 30, 2008	Prepared By:	Alan Laudani
-	April 30, 2008	Initial Release:	Alan Laudani

NOTE: Nemko USA, Inc. hereby makes the following statements so as to conform to Chapter 10 (Test Reports) Requirements of ANSI C63.4 (2003) "Methods and Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz":

- o The unit described in this report was received at Nemko USA, Inc.'s facilities on April 29, 2008.
- o Testing was performed on the unit described in this report on April 29, 2008
- The Test Results reported herein apply only to the Unit actually tested, and to substantially identical Units.
- This report does not imply the endorsement of the Federal Communications Commission (FCC), Industry Canada, NVLAP or any other government agency.

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CERTIFICATION

Nemko USA, Inc., an independent Electromagnetic Compatibility (EMC) Test Laboratory, produced this Test Report and performed the Radio Frequency Interference (RFI) testing and data evaluation contained herein.

Nemko USA, Inc.'s measurement facility is currently registered with the United States Federal Communications Commission (FCC) in accordance with the provisions of 47 United States Code (CFR) Part 2, Subpart I, Section 2.948(a). A current description of Nemko USA, Inc.'s measurement facility is on file with the FCC. Nemko USA Inc. has additionally satisfied the FCC that it complies with the requirements set forth in 47 CFR Part 2, Subpart I, Section 2.948(d) regarding the accreditation of EMC laboratories.

The RFI testing, test data collection and test data evaluation were accomplished in accordance with the ANSI C63.4–2003 Standard, and in accordance with the applicable sections of the FCC rules (47 CFR Parts 2 and 15). The testing was also accomplished in accordance with Industry Canada's ICES-003 standard for unintentional radiating device per EMCAB-3, Issue 3 (May 1998). The administrative summary of this test report provides a description of the test sample.

I hereby certify that the test data, test data evaluation, and equipment configurations used to compile this test report are a true and accurate representation of the test sample's radio frequency interference characteristics as of the test date(s), and, for the design of the test sample.

Alan Laudani EMC Engineer

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1. ADMINISTRATIVE DATA AND TEST SUMMARY

1.1. Administrative Data

Stanley Security Solutions 6161 E. 75th Street CLIENT:

Indianapolis, IN 46250

CONTACT: Stuart Britton

E-Mail: sbritton@stanleyworks.com

DATE (S) OF TEST: April 29, 2008

EQUIPMENT UNDER TEST (EUT): Wireless Door Controller

MODEL: WDC Serial Number: NA

CONDITION UPON RECEIPT: Suitable for Test

TEST SPECIFICATION: FCC, Part 15.247, Subpart C Operation within the bands 902-

928 MHz, 2400-2483.5 MHz, 5725-5850 MHz and 24.0-24.25 GHz bands and RSS 210 (Issue 7, June 2007) Annex 8 -Frequency Hopping and Digital Modulation Systems Operating in the Bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850

MHz

1.2. Test Summary

Specification	Frequency Range	Compliance Status
FCC, CFR 47, Section 15.207	0.15 MHz - 30.00 MHz	NA ¹
FCC, CFR 47, Section 15.209	30 MHz – 10 th Harmonic	PASS ²
FCC, CFR 47, Section 15.109	30 MHz – 5 th Harmonic	PASS ²
FCC CFR 47, §15.247 Plus Bandedge	2405– 2480 MHz	PASS
RSS-210 - Low Power License Exempt Radio-communication Devices (All Frequency Bands)	2405– 2480 MHz	PASS

¹Conductiive emissions were not required as this was a battery powered device.

Alan Laudani EMC Engineer

²Testing was started at 30 MHz as there are no RF signals generated below this frequency. Refer to the test results section for further details.

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2. SYSTEM CONFIGURATION

2.1. Description and Method of Exercising the EUT

The WDC is a Wireless Door Controller. Its function is to control the security of a doorway and open the door's lock. The EUT was exercised by putting the transmitter into continuous transmit mode on a selected channel. In normal functioning of the device, transmitting does not occur until the keyboard is operated or a interrogating signal from the security system's radio polls for status of the lock..

2.2. System Components and Power Cables

DEVICE	MANUFACTURER MODEL # SERIAL #	POWER CABLE
EUT - Wireless Door Controller	Stanley Security Solutions Model: WDC Serial #: NA	

2.3. Device Interconnection and I/O Cables

Connection	I/O Cable
No Connections	

2.4. Design Modifications for Compliance

The following design modifications were made to the EUT during testing.

No design modifications were made to the EUT during testing.

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2.5. Technical Specifications of the EUT

Manufacturer: Stanley Security Solutions

Operating Frequency: 2405 MHz to 2480 MHz in the 2400-2483.5 MHz Band

Rated Power: 14.44 dBm

Modulation: Digital

Antenna: Internal to inclosure: Southwest Antennass PN 1055-036

Gain 5 dBi

Antenna Connector: Internal from radio board to antenna -cannot be accessed by

user

Power Source: (4) 1.5 V AA batteries in series

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3. DESCRIPTION OF TEST SITE AND ENVIRONMENT

3.1. Description of Test Site

The test site is located at 11696 Sorrento Valley Road, Suite F, San Diego, CA 92121. The site is physically located 18 miles Northwest of downtown San Diego. The general area is a valley 1.5 miles east of the Pacific Ocean. This particular part of the valley tends to minimize ambient levels, i.e. radio and TV broadcast stations and land mobile communications. The three and ten-meter Open Area Test Site (OATS) is located behind the office/lab building. It conforms to the normalized site attenuation limits and construction specifications as set in the EN 55022 (1987), CISPR 16 and 22 (1985) and ANSI C63.4-2001 documents. The OATS normalized site attenuation characteristics are verified for compliance every year, and registered with the Federal Communications Commission under Registration Number 90579 and Industry Canada under 2040B-1 and 2040B-2.

3.2. Test Environment

All tests were performed under the following environmental conditions:

Temperature range : 17 – 22 °C Humidity range : 25 - 50% Pressure range : 87 - 105 kPa Power supply range : Fresh batteries

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4. DESCRIPTION OF TESTING METHODS

4.1. Introduction

As required in 47 CFR, Parts 2 and 15, the methods employed to test the radiated and conducted emissions (as applicable) of the EUT are those contained within the American National Standards Institute (ANSI) document ANSI C63.4–2003, titled "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz." All applicable FCC Rule Sections that provide further guidance for performance of such testing are also observed.

For General Test Configuration please refer to Figure 1 on the following page.

Digital devices sold in Canada are required to comply with the Interference Causing Equipment Standard for Digital Apparatus, ICES-003. These test methods and limits are specified in the Canadian Standards Association's (CSA) Standard C108.8-M1983 (1-1-94 version) and are "essentially equivalent" with FCC, Part 15 and CISPR 22 (EN55022) rules for unintentional radiators per EMCAB-3, Issue 3 (May 1998). No further testing is required for compliance to ICES-003.

4.2. Configuration and Methods of Measurements for Conducted Emissions

Section 7 of ANSI C63.4 determines the general configuration of the EUT and associated equipment, as well as the test platform for conducted emissions testing. Tabletop devices are placed on a non-conducting surface 80 centimeters above the ground plane floor and 40 centimeters from the ground plane wall. The EUT and associated system are configured to operate continuously, representing a "normally operating" mode. The EUT is powered via a Line Impedance Stabilization Network (LISN). The emissions are recorded using the required bandwidth of 9 kHz in the quasi-peak mode. The average amplitude is also observed employing a 10 kHz bandwidth to determine the presence of broadband RFI. When such interference is caused by broadband sources (as defined by the FCC and ANSI Rules), the deviation guidelines contained in Section 11.3.1 of ANSI C63.4 are employed, which allows a correction factor of 13 dB to be subtracted from the quasi-peak reading. The emission levels are then compared to the applicable FCC limits to determine compliance.

4.3. Configuration and Methods of Measurements for Frequency Identification

When performing all testing of equipment, the actual emissions of the EUT are segregated from ambient signals present within the laboratory or the open-field test range. Preliminary testing is performed to ensure that ambient signals are sufficiently low to allow for proper observation of the emissions from the EUT. Incoming power lines are filtered using a 120 dB, 30-ampere; 115/208-volt filter to assist in reducing ambient signals for tests of levels of conducted emissions. Ambients within the laboratory are compared to those noted at the nearby open-field site to discriminate between signals produced from the EUT and ambient signals. In the event that a significant emission is produced by the EUT at a frequency which is also demonstrating significant ambient signals, the spectrum analyzer is placed in the peak mode, the bandwidth is narrowed, the EUT's signal is centered on the analyzer, the scan width is expanded to 50 kHz while monitoring the audio to ensure that only the EUT signal is present, the analyzer is switched to quasi-peak mode, and the level of the EUT signal is recorded.

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4.4. Configuration and Methods of Measurements for Radiated Emissions

Section 8 of ANSI C63.4 determines the general configuration and procedures for measuring the radiated emissions of equipment under test. Initially, the primary emission frequencies are identified inside the test lab by positioning a broadband receive antenna one meter from the EUT to locate frequencies of significant radiation. Next, the EUT and associated system are placed on a turntable on a ten meter open area test site (registered with the FCC in accord with its Rules and ANSI C63.4) and the receive antenna is located at a distance of ten meters from the EUT.

The EUT and associated system are configured to operate continuously, representing a "normally operating" mode. All significant radiated emissions are recorded when maximum radiation on each frequency is observed, in accordance with part 8 of ANSI C63.4–2003 and Section 15.33 of the FCC Rules. To ensure that the maximum emission at each discrete frequency of interest is observed, the receive antenna is varied in height from one to four meters and rotated to horizontal and vertical polarities, and the turntable is also rotated to determine the worst emitting configuration. The numerical results of the test are included herein to demonstrate compliance.

The numerical results that are applied to the emissions limits are arrived at by the following method:

$$\begin{split} &Example: \ A=RR+CL+AF\\ A=Amplitude \ dBuV/m\\ RR=Receiver \ Reading \ dBuV\\ CL=cable \ loss \ dB\\ AF=antenna \ factor \ dB/m \end{split}$$

The final adjusted value is then compared to the appropriate emission limit to determine compliance.

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5. Test Results

5.1. Bandwidth

RSS-Gen 4.6.1

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

Model:	WDC	Temperature:	73°F
Date:	4/29/08	Humidity:	44%
Modification State:	Lo/Mid/High Channels	Tester:	Alan Laudani
		Laboratory:	Shielded Room 2

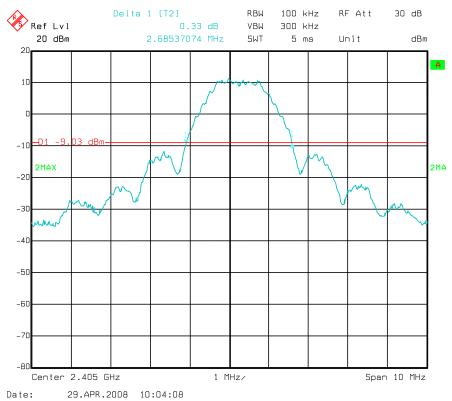
15.247(a)(1)

Measurements were done conductively. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 20 dB lower than PEAK level. The bandwidth was determined from where the channel output spectrum intersected the display line. During Band Edge measurements, it was determined that the highest channel was to be reduced in power requirements, therefore the next to highest channel was included in data collection.

Test Results:

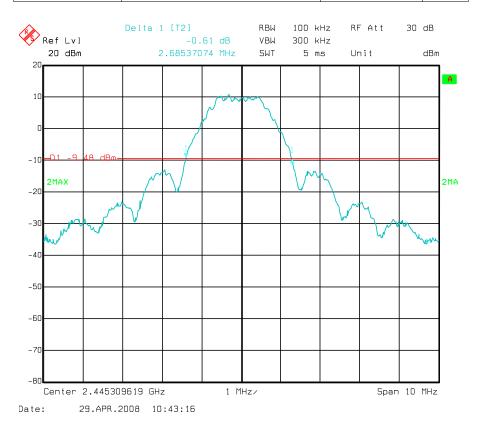
20 dB Bandwidth				
Low Channel	Mid Channel	Next to Highest Channel	High Channel	
2.68 MHz	2.68 MHz	2.69 MHz	2.72 MHz	

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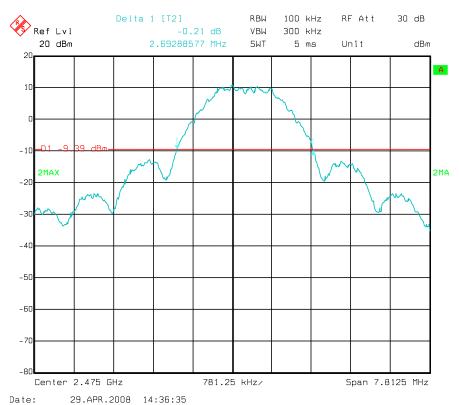
Low Channel

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Mid Channel

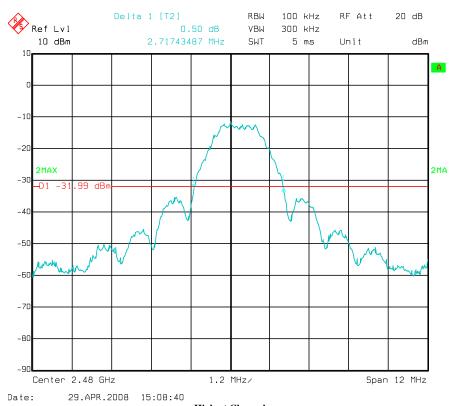
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Next to Highest C

Next to Highest Channel

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Highest Channel

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5.2. Out-of-band Emissions / Radiated Emissions within Restricted Bands

(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (uV/meter)	Measurement Distance (meter)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	3
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Sec. 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a) (see Sec. 15.205(c)).

A8.5 Out-of-band Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under Section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required.

Model:	WDC	Temperature:	23°C
Date:	4/29/08	Humidity:	43%
Modification State:	Lo/Mid/High Channels	Tester:	Alan Laudani
		Laboratory:	SOATS

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Test Results: EUT complies.

Additional Observations:

- The Spectrum was searched from 30MHz to the 10th Harmonic, 25000 MHz. There are no emissions found that do not comply to the restricted bands defined in **FCC Part 15 Subpart C, 15.205** or **Part 15.247(d)**.
- Radiated Measurements below 1GHz were performed at 3m with a Quasi-Peak detector (RBW 120kHz/VBW 300kHz) while Radiated Peak (RBW 1MHz/VBW 3MHz) and Average (RBW 1MHz/VBW 10Hz) measurements conducted above 1GHz.
- Emissions measuring greater than 20 dB from the limit were not included in the table below.
- During Band Edge measurements, it was determined that the highest channel was to be reduced in power requirements, therefore the next to highest channel was included in data collection.
- Radiated Measurement Scans were done from 30 MHz to 12,500 MHz while the EUT
 was in normal mode with no attempt to initiate a transmission (awaiting polling from
 signal from the security system). No emissions are evident in this mode.

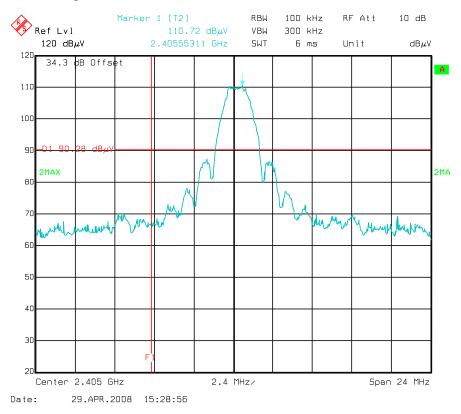
Emissions calculation example: Frequency 7335 MHz average Maximum measured vertically = 43.9 dB μ V Add 36.2 dB/m for antenna factor = 80.1 dB μ V/m Add 11.1 dB for cable loss = 91.2 dB μ V/m Subtract 43.0 dB for preamplifier gain = 48.2 dB μ V/m Result is 5.8 below limit of 15.209, therefore frequency emission passes.

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VEX #:		106333				1300pm	_				
					Staff:	al	_				
Client Nan		Stanley Secu					_	EUT Vol			6VDC
EUT Name		Wireless Do	or Cont	roller			_	EUT Fre	quency	:	battery
EUT Mode		WDC					_	Phase:			
EUT Seria		NA					_	NOATS			
EUT Confi	g. :	transmitting					_	SOATS			X
								Distance			3 m
								Distance	> 1000	MHz:	3 m
Specificati		CFR47 Part	15, Sul	part C,	15.247d,	15.205	_			_	
oop Ant.		NA NA		_	(0.0)					Quasi-F	
Bicon Ant.		NA NA	-		np. (°C) :		-			<u> </u>	Video Bandwidth 300 kH
og Ant.#: DRG Ant.		NA 529	-		dity (%):	43 835	_			Peak	RBW: 1 MHz
Cable LF#					ec An.#:		-				Video Bandwidth 3 MHz
Jable LF# Cable HF#		SOATS 40ft	. Sp	ec An. D	isplay #: QP #:	NA NA	_			Average	
Preamp LF		NA NA	-	Dro	Select#:	NA NA	-				Video Bandwidth 10 Hz
Preamp H		919		FIE	Seleci#.	INA	-				uasi-Peak values, unless otherwise sta
reamp in	1 77	313	•					Measu	rements abov	/e i Gnz ar	e Average values, unless otherwise sta
Meas.	Meter	Meter	Det.	FUT	Ant.	Max.	Corrected	Spec.	CR/SI	Pass	1
Frea.	Reading	Reading	Det.	Side	Height	Reading	Reading	limit	Diff.	Fail	
(MHz)	Vertical	Horizontal		F/L/R/B	m	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)	1 0.11	Comment
						V / /			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
4810.0	56.5	51.8	Р	F	1.0	56.5	52.6	74.0	-21.4	Pass	LOW CHANNEL
4810.0	45.2	38.1	Α	F	1.0	45.2	41.3	54.0	-12.7	Pass	
	60.6	53.8	Р	F	1.0	60.6	56.7	74.0	-17.3	Pass	MID CHANNEL
4890.0	51.2	42.5	Α	F	1.0	51.2	47.3	54.0	-6.7	Pass	
4890.0 4890.0	53.8	51.3	Р	F	1.0	53.8	58.1	74.0	-15.9	Pass	
	43.9	40.8	Α	F	1.0	43.9	48.2	54.0	-5.8	Pass	
4890.0											
4890.0 7335.0											Next to High Channel
4890.0 7335.0										Pass	1
4890.0 7335.0 7335.0 2475.0 4950.0	56.6	54.1	Р	F	1.0	56.6	52.9	74.0	-21.1		
4890.0 7335.0 7335.0 2475.0 4950.0 4950.0	45.5	42.9	Α	F	1.0	45.5	41.8	54.0	-12.2	Pass	
4890.0 7335.0 7335.0 2475.0 4950.0 4950.0 7425.0	45.5 52.6	42.9 52.3	A	F	1.0	45.5 52.6	41.8 57.1	54.0 74.0	-12.2 -16.9		
4890.0 7335.0 7335.0 2475.0 4950.0 4950.0	45.5	42.9	Α	F	1.0	45.5	41.8	54.0	-12.2	Pass	
4890.0 7335.0 7335.0 2475.0 4950.0 4950.0 7425.0	45.5 52.6	42.9 52.3	A	F	1.0	45.5 52.6	41.8 57.1	54.0 74.0	-12.2 -16.9	Pass Pass	
4890.0 7335.0 7335.0 2475.0 4950.0 4950.0 7425.0	45.5 52.6	42.9 52.3	A	F	1.0	45.5 52.6	41.8 57.1	54.0 74.0	-12.2 -16.9	Pass Pass	High Channel
4890.0 7335.0 7335.0 2475.0 4950.0 4950.0 7425.0	45.5 52.6	42.9 52.3	A	F	1.0	45.5 52.6	41.8 57.1	54.0 74.0	-12.2 -16.9	Pass Pass	High Channel No emissions to report.
4890.0 7335.0 7335.0 2475.0 4950.0 4950.0 7425.0	45.5 52.6	42.9 52.3	A	F	1.0	45.5 52.6	41.8 57.1	54.0 74.0	-12.2 -16.9	Pass Pass	

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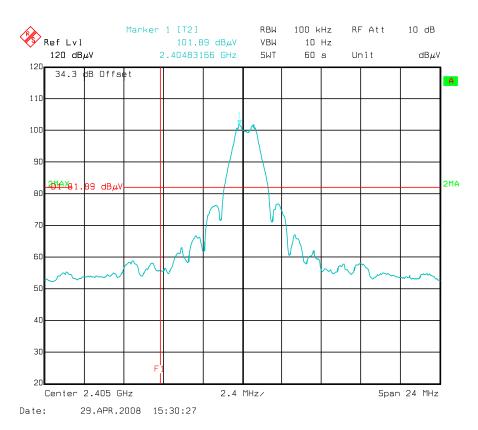
5.3. Bandedge Measurements



Low Channel 2405 MHz (Peak Measurement)

Frequency line is 2400MHz Limit used is 20dB from peak 34.3dB offset for antenna (28.4), cable loss (5.9)

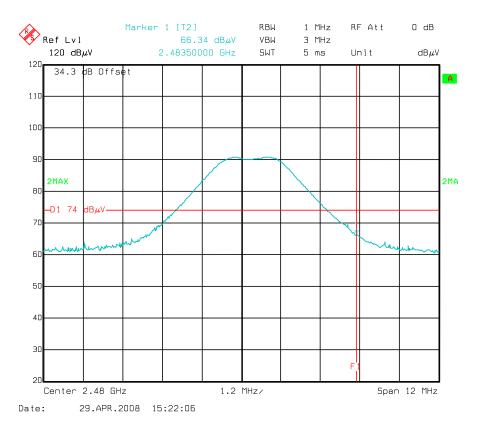
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Low Channel 2405 MHz (Average Measurement)

Frequency line is 2400MHz Limit used is 20dB from peak 34.3dB offset for antenna (28.4), cable loss (5.9)

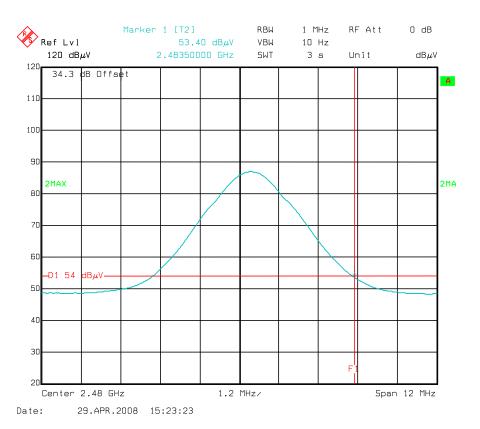
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High Channel 2480 MHz (Peak Measurement)

Frequency line is 2483.5 MHz Limit used is 74 dB per 15.209 and 15.205 34.3dB offset for antenna (28.4), cable loss (5.9)

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High Channel 2480 MHz (Average Measurement)

Frequency line is 2483.5 MHz Limit used is 54 dB per 15.209 and 15.205 34.3dB offset for antenna (28.4),cable loss (5.9)

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5.4. Out-of-band Emissions / Conducted Emissions

15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Sec. 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a) (see Sec. 15.205(c)).

A8.5 Out-of-band Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under Section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required.

Model:	WDC	Temperature:	73°F
Date:	4/29/08	Humidity:	44%
Modification State:	Lo/Mid/High Channels	Tester:	Alan Laudani
		Laboratory:	Shielded Room 2

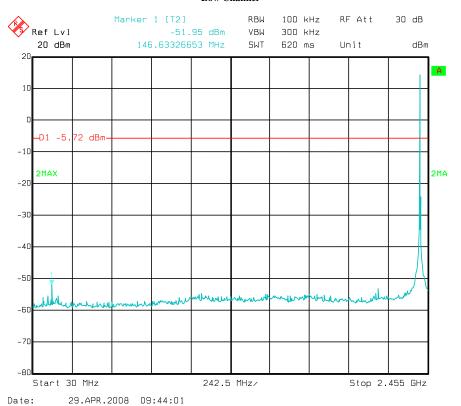
15.247(a)(1)

Measurements were done conductively. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 20 dB lower than PEAK level. During Band Edge measurements, it was determined that the highest channel was to be reduced in power requirements, therefore the next to highest channel was included in data collection. Data presented from 30 MHz to 25,000 MHz. Max peak hold detector.

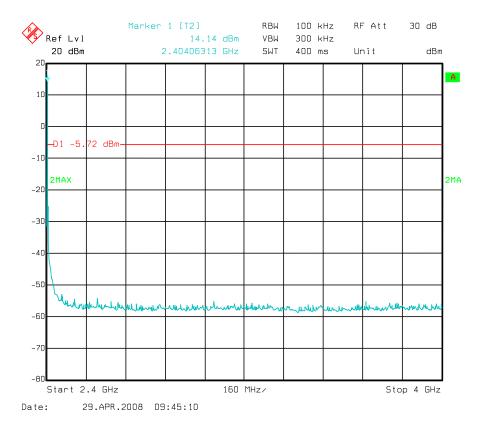
Test Results: EUT complies. See Plots below for Low Channel, Additional channels presented in Appendix.

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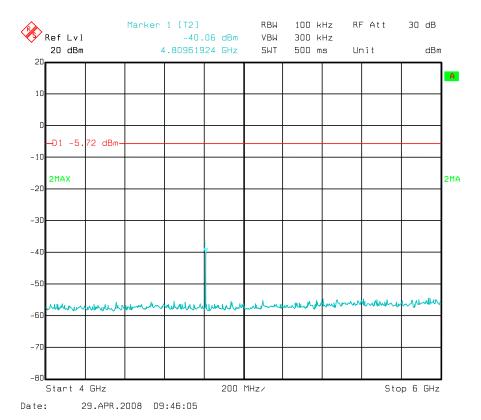
Low Channel



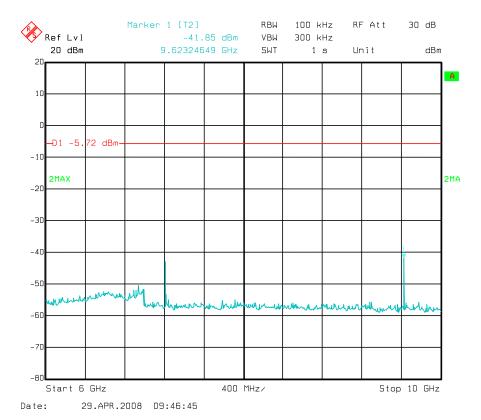
Nemko USA, Inc.			nto Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
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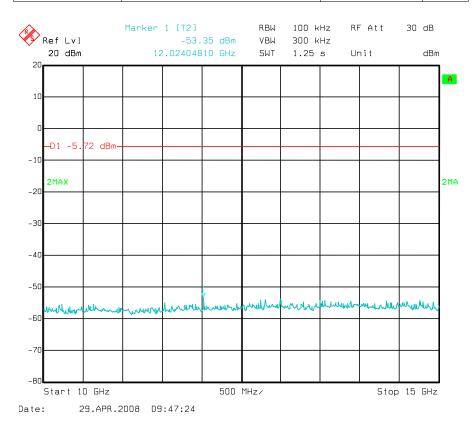
Nemko USA, Inc.			o Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
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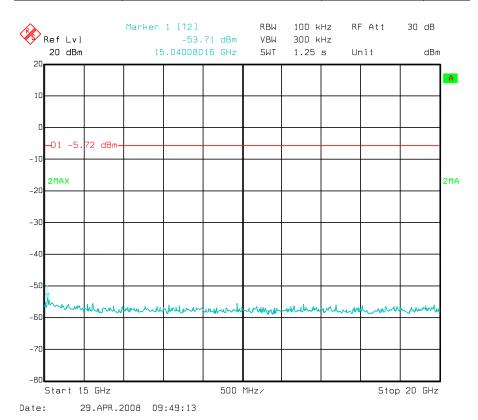
Nemko USA, Inc.		nto Valley Road, Suite F, San Diego, CA 9212 Phone (858) 755-5525 Fax (858) 452-181		
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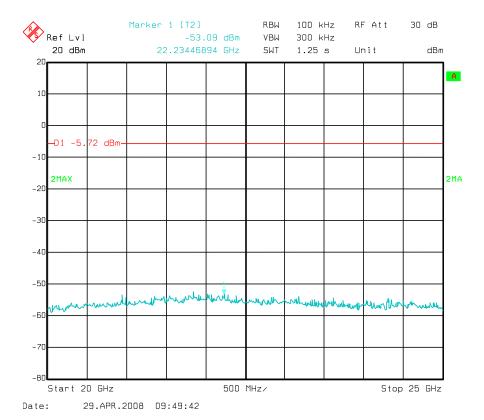
Nemko USA, Inc.		ento Valley Road, Suite F, San Diego, CA 9212 Phone (858) 755-5525 Fax (858) 452-18		
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5.5. Minimum 6dB RF Bandwidth

(a)(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

A8.2 (a) The minimum 6 dB bandwidth shall be at least 500 kHz.

Model:	WDC	Temperature:	73°F
Date:	4/29/08	Humidity:	44%
Modification State:	Lo/Mid/High Channels	Tester:	Alan Laudani
		Laboratory:	Shielded Room 2

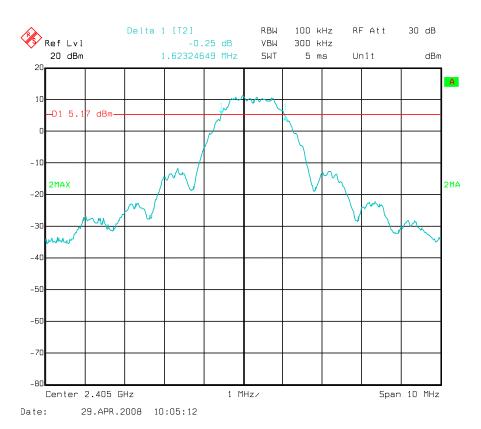
Test Results: EUT Complies.

6dB Bandwidth:

Measurements were done conductively. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line. During Band Edge measurements, it was determined that the highest channel was to be reduced in power requirements, therefore the next to highest channel was included in data collection.

Channel Range	6 dB Bandwidth
Low (2405 MHz)	1.62 MHz
Mid (2440 MHz)	1.62 MHz
(Next to Highest 2475 MHz)	1.61 MHz
High (2480 MHz)	1.63 MHz

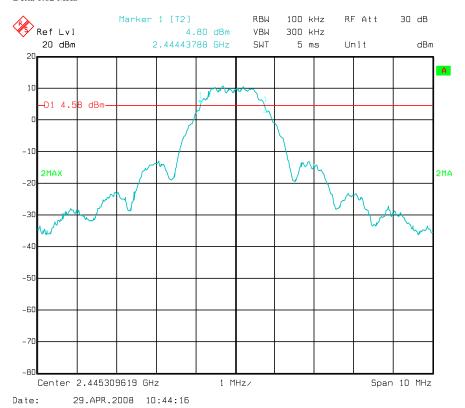
Nemko USA, Inc.		ento Valley Road, Suite F, San Diego, CA 9212 Phone (858) 755-5525 Fax (858) 452-181		
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LOW Channel (2405 MHz)

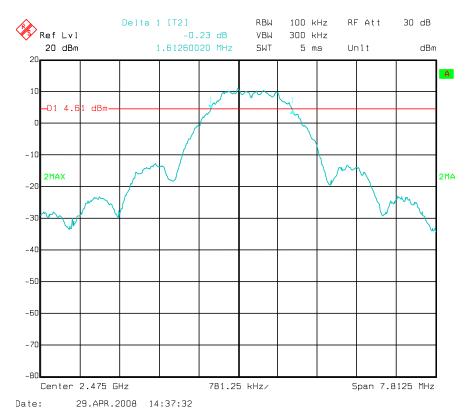
		Valley Road, Suite F, San Diego Phone (858) 755-5525 Fax (85		
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Delta 1.62 MHz



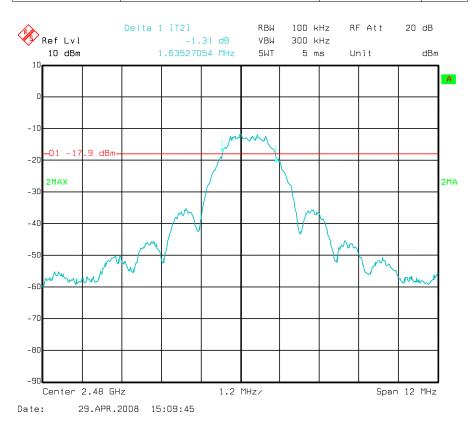
MID Channel (2440 MHz)

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Next to HIGHEST Channel (2475 MHz)

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HIGH Channel (2480 MHz)

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5.6. Maximum peak output power

(b) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

A8.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under Section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required.

Model:	WDC	Temperature:	73°F
Date:	4/29/08	Humidity:	44%
Modification State:	Lo/Mid/High Channels	Tester:	Alan Laudani
		Laboratory:	Shielded Room 2

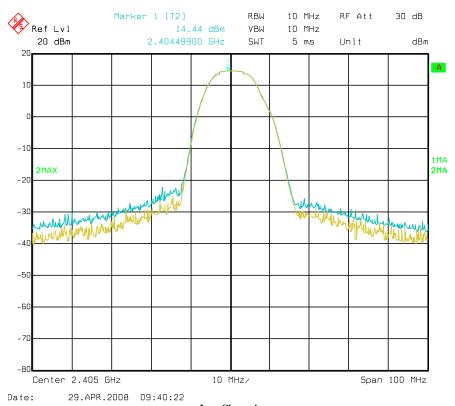
Test Results:

Additional Observations:

- Peak Hold Analyzer Readings, RES BW was set to 10 MHz and VBW to 10 MHz.
- Measurements were made with a fresh battery.
- During Band Edge measurements, it was determined that the highest channel was to be reduced in power requirements, therefore the next to highest channel was included in data collection.

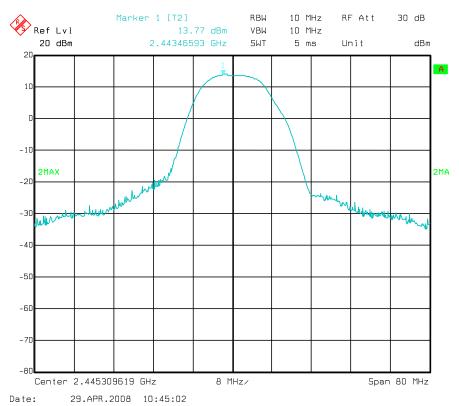
Channel	Frequency (MHz)	M asured Output Power (dBm)	Measured Output Power (mW)
Low	2405	14.44	27.8
Mid	2440	13.77	23.8
Next to Highest	2475	13.50	22.4
High	2480	-8.74	0.13

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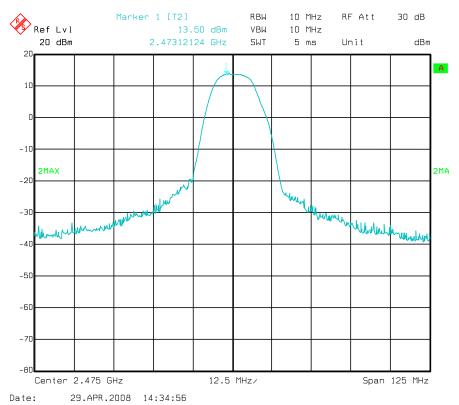
Low Channel.

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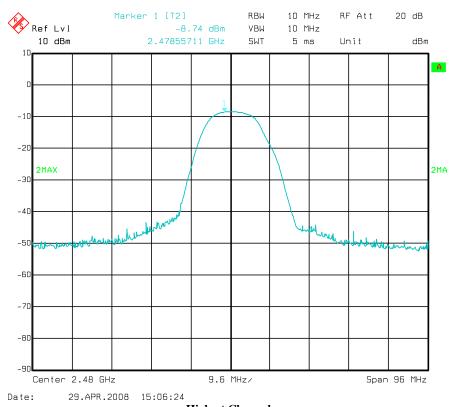
Mid Channel.

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Next to Highest Channel.

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5.7. Power Spectral Density

(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

A8.2(b) The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0-second duration. This power spectral density shall be determined in accordance with the provisions of Section A8.4(4); (i.e. the power spectral density shall be determined using the same method for determining the conducted output power).

Model:	WDC	Temperature:	73°F
Date:	4/29/08	Humidity:	44%
Modification State:	Lo/Mid/High Channels	Tester:	Alan Laudani
		Laboratory:	Shielded Room 2

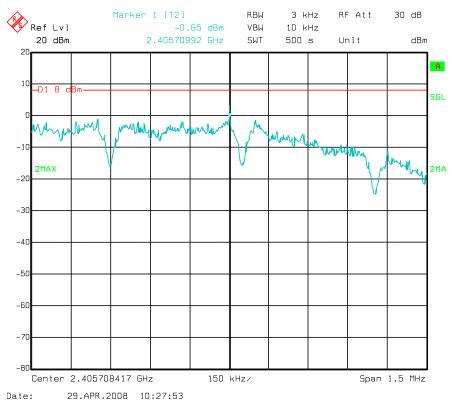
Test Results:

Additional Observations:

- Conductive Peak Analyzer Readings: RES BW was set to 3 kHz and VBW to 10 kHz; Span = 1.5 MHz, Sweep = 500 seconds.
- Measurements were made with a fresh battery.
- During Band Edge measurements, it was determined that the highest channel was to be reduced in power requirements, therefore the next to highest channel was included in data collection.

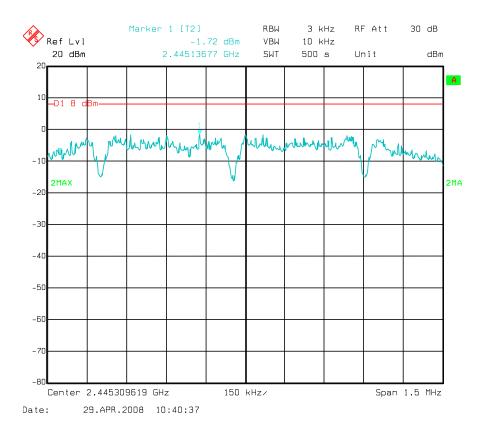
Channel	Channel Frequency (MHz)	RF Power Level in 3KHz BW (dBm)	Maximum Limit (dBm)	PASS/FAIL
LO	2405	-0.65	8	Pass
MID	2440	-1.72	8	Pass
NEXT TO HIGHEST	2475	-1.56	8	Pass
HIGH	2480	-23.92	8	Pass

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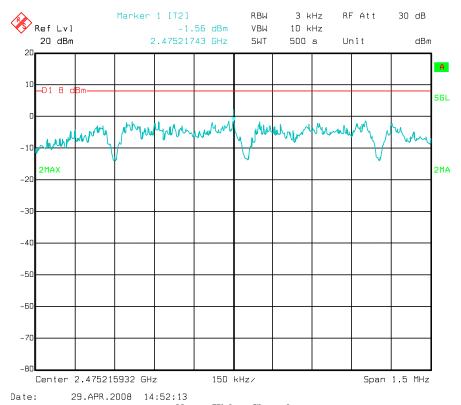
Low Channel

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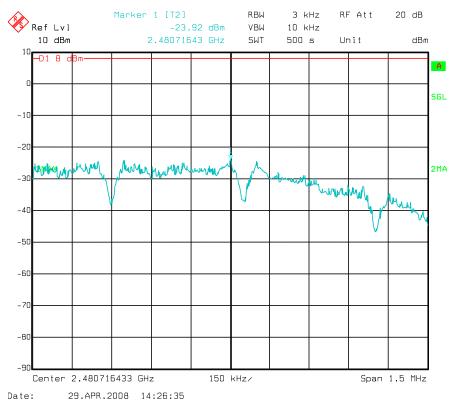
Mid Channel

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High Channel

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5.8. Test Equipment

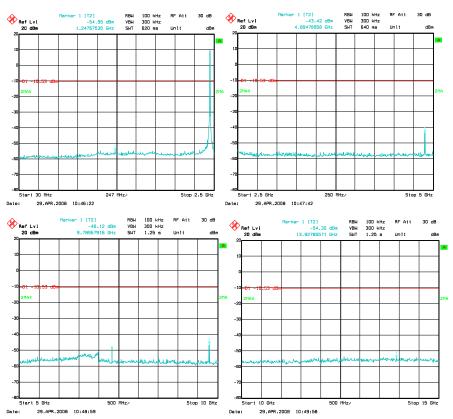
Nemko				Serial		
ID	Device	Manufacturer	Model	Number	Cal Date	Cal Due Date
110	Antenna, LPA	EMCO	3146	1217	10-Jan-08	10-Jan-09
114	Antenna, Bicon	EMCO	3104	2997	10-Jan-08	10-Jan-09
529	Antenna, DRWG	EMCO	3115	2505	27-Aug-07	27-Aug-08
625	Antenna, Dbl Ridge Horn	EMCO	3116	2325	01-Apr-08	01-Apr-09
674	Spectrum Analyzer	HP	8568B	2007A00910	11-Apr-08	11-Apr-09
675	Spectrum Analyzer Display	HP	85662A	2005A01282	11-Apr-08	11-Apr-09
676	Quasi-Peak Adapter	HP	85650A	2430A00576	11-Apr-08	11-Apr-09
835	Spectrum Analyzer	Rohde & Schwarz	RHDFSEK	829058/005	20-Jun-07	20-Jun-08
919	Preamplifier	Spacek Labs MM-Wave Technology	100MHz to 40GHz	3M12,3M13	12-Mar-08	12-Mar-09

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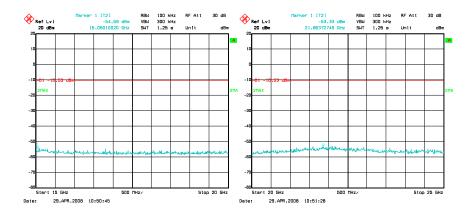
Appendix.

Conducted Spurious continued.

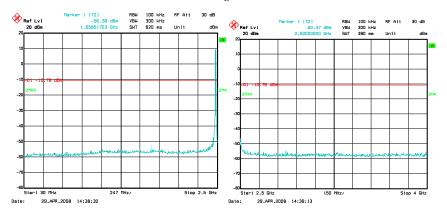
Mid Channel.



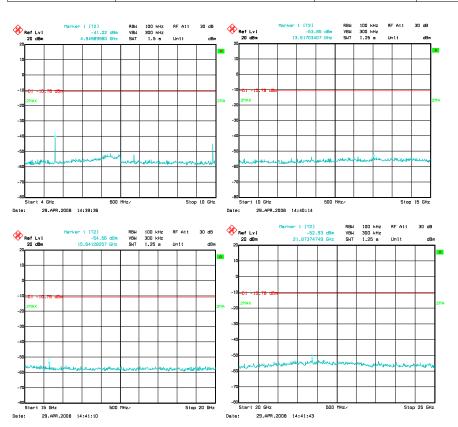
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Next to Highest Channel.

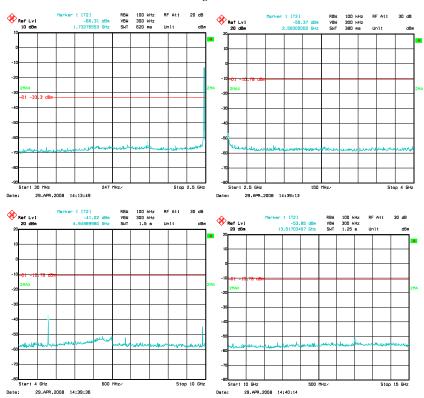


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