



**Nemko**

*Nemko USA, Inc.*  
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**CERTIFICATION TEST REPORT**  
**Class II Permissive Change**

**PART 15.247C**  
**IC RSS-210**

**For The Wireless Exit Controller**  
**Model: 12860-001**

**FCC ID: T8H-SDC2K**  
**IC: 6498A-SDC2K**

**PREPARED FOR:**

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

**Prepared on: February 8, 2010**

**Report Number: 2009 10136358 SDC**

**Project Number: 32378**

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<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	2 of 26

## DOCUMENT HISTORY

REVISION	DATE	COMMENTS	
-	February 8, 2010	Prepared By:	Alan Laudani
-	February 8, 2010	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":

- The unit described in this report was received at Nemko USA, Inc.'s facilities on September 28, 2009.
- Testing was performed on the unit described in this report on October 5, 2009 to February 8, 2010.
- 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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<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	3 of 26

## TABLE OF CONTENTS

<b>DOCUMENT HISTORY</b> .....	2
<b>CERTIFICATION</b> .....	4
<b>1. ADMINISTRATIVE DATA AND TEST SUMMARY</b> .....	5
1.1. ADMINISTRATIVE DATA .....	5
1.2. TEST SUMMARY .....	6
<b>2. SYSTEM CONFIGURATION</b> .....	7
2.1. DESCRIPTION AND METHOD OF EXERCISING THE EUT.....	7
2.2. SYSTEM COMPONENTS AND POWER CABLES.....	7
2.3. DEVICE INTERCONNECTION AND I/O CABLES .....	7
2.4. DESIGN MODIFICATIONS FOR COMPLIANCE .....	7
2.5. TECHNICAL SPECIFICATIONS OF THE EUT .....	8
<b>3. DESCRIPTION OF TEST SITE AND ENVIRONMENT</b> .....	9
3.1. DESCRIPTION OF TEST SITE .....	9
3.2. TEST ENVIRONMENT .....	9
<b>4. DESCRIPTION OF TESTING METHODS</b> .....	10
4.1. INTRODUCTION.....	10
4.2. CONFIGURATION AND METHODS OF MEASUREMENTS FOR CONDUCTED EMISSIONS .....	10
4.3. CONFIGURATION AND METHODS OF MEASUREMENTS FOR FREQUENCY IDENTIFICATION .....	11
4.4. CONFIGURATION AND METHODS OF MEASUREMENTS FOR RADIATED EMISSIONS .....	12
<b>5. TEST RESULTS</b> .....	13
5.1. OUT-OF-BAND EMISSIONS / RADIATED EMISSIONS WITHIN RESTRICTED BANDS.....	13
5.2. MAXIMUM PEAK OUTPUT POWER.....	16
5.3. BANDEDGE MEASUREMENTS.....	18
5.4. TEST EQUIPMENT .....	26

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	4 of 26

## 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.




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Alan Laudani  
EMC Engineer

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	5 of 26

## 1. ADMINISTRATIVE DATA AND TEST SUMMARY

### 1.1. Administrative Data

CLIENT:	Stanley Security Solutions 6161 E. 75th Street Indianapolis, IN 46250
CONTACT:	Troy Brown tbrown2@stanleyworks.com
E-Mail:	
DATE (S) OF TEST:	October 5, 2009 to October 21, 2009
EQUIPMENT UNDER TEST (EUT):	Wireless Exit Controller
MODEL:	SDC
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

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	6 of 26

## 1.2. Test Summary

Class II Permissive change to qualify this product using less RF shielding.  
Power was reduced to meet bandedge emissions.

<i>Specification</i>	<i>Frequency Range</i>	<i>Compliance Status</i>
FCC, CFR 47, Section 15.207	0.15 MHz - 30.00 MHz	NA <sup>1</sup>
FCC, CFR 47, Section 15.209	30 MHz – 10 <sup>th</sup> Harmonic	PASS <sup>2</sup>
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

<sup>1</sup>Conductive emissions were not required as this was a battery powered device.

<sup>2</sup>Testing was started at 30 MHz as there are no RF signals generated below this frequency.

*Refer to the test results section for further details.*

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE

February 8, 2010

SDC Certification Test Report  
FCC ID: T8H-SDC2K IC: 6498A-SDC2K

2009 10136358 SDC

7 of 26

## 2. SYSTEM CONFIGURATION

### 2.1. Description and Method of Exercising the EUT

The 12860-001 is a Wireless Exit 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 Exit Controller	Stanley Security Solutions Model: 12860-001 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.

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	8 of 26

## 2.5. Technical Specifications of the EUT

**Manufacturer:** Stanley Security Solutions

Frequency	Conducted Power in dBm	Conducted power in Watts
2405 MHz	0.80	0.0012
2440 MHz	12.27	0.0169
2470 MHz	12.43	0.0175
2475 MHz	8.24	0.0067

**Modulation:** Digital

**Antenna:** RP-SMA connector  
Antenna Factor ANT-2.4-CW-RCT-RP Gain 2.2 dBi

**Antenna Connector:** Internal from radio board to antenna  
–cannot be accessed by user

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

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	9 of 26

### 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	:	18.8 – 25 °C
Humidity range	:	52 - 93%
Pressure range	:	87 - 105 kPa
Power supply range	:	Fresh batteries

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE

February 8, 2010

SDC Certification Test Report  
FCC ID: T8H-SDC2K IC: 6498A-SDC2K

2009 10136358 SDC

10 of 26

## 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.

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	11 of 26

#### **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.

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	12 of 26

#### 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:

Example:  $A = RR + CL + AF$

$A$  = Amplitude dBuV/m

$RR$  = Receiver Reading dBuV

$CL$  = cable loss dB

$AF$  = antenna factor dB/m

Example Frequency = 110MHz

18.5 dBuV (spectrum analyzer reading)

+3.0 dB (cable loss @ frequency)

21.5 dBuV

+15.4 dB/m (antenna factor @ frequency)

36.9 dBuV/m Final adjusted value

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

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE

February 8, 2010

SDC Certification Test Report  
FCC ID: T8H-SDC2K IC: 6498A-SDC2K

2009 10136358 SDC

13 of 26

## 5. Test Results

### 5.1. 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.

DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	14 of 26

## Radiated Emissions Data

Job #:	32378	Date :	10-21-09	Page	1	of	1
NEX #:	136358	Time :	0930				
Staff :	AAL						
Client Name :	Stanley Security Solutions	EUT Voltage :	BATT				
EUT Name :	Wireless Exit Controller	EUT Frequency :					
EUT Model #:	12860-001	Phase:					
EUT Serial #:	NA	NOATS					
EUT Config. :	Transmitting, modulated, test mode	SOATS	X				
Specification :	CFR47 Part 15, Subpart B, Class B	Distance < 1000 MHz:	3 m				
Loop Ant. #:	NA	Distance > 1000 MHz:	3 m				
Bicon Ant. #:	115	Temp. (°C) :	24				
Log Ant. #:	110	Humidity (%) :	42				
DRG Ant. #	877	Spec Analyzer #:	835				
Cable LF#:	SOATS	Analyzer Display #:	835				
Cable HF#:	40ft_blue	Quasi-Peak Detector #:	NA				
Preamp LF#:	NA	Preselector #:	NA				
Preamp HF#	317						

Measurements below 1 GHz are Quasi-Peak values, unless otherwise stated.  
Measurements above 1 GHz are Average values, unless otherwise stated.

Quasi-Peak	RBW: 120 kHz
	Video Bandwidth 300 kHz
Peak	RBW: 1 MHz
	Video Bandwidth 3 MHz
Average	RBW: 1 MHz
	Video Bandwidth 10 Hz

Meas. Freq. (MHz)	Meter Reading Vertical	Meter Reading Horizontal	Det.	EUT Side F/L/R/B	Ant. Height m	Max. Reading (dB $\mu$ V)	Corrected Reading (dB $\mu$ V/m)	Spec. limit (dB $\mu$ V/m)	CR/SL Diff. (dB)	Pass Fail	Comment
2400.0	27.2	19.2	P	-	1.0	27.2	63.2	89.4	-26.2	Pass	100 kHz BW
2400.0	16.1	8.7	A	-	1.0	16.1	52.1	76.7	-24.6	Pass	
2405.0	73.4	56.3	P	-	1.0	73.4	109.4	125.0	-15.6	Pass	
2405.0	60.7	47.5	A	-	1.0	60.7	96.7	125.0	-28.3	Pass	
4810.0	51.4	49.3	P	-	1.0	51.4	62.2	74.0	-11.7	Pass	
4810.0	40.0	37.2	A	-	1.0	40.0	50.8	54.0	-3.1	Pass	
7215.0	45.9	42.0	P	-	1.0	45.9	64.7	74.0	-9.3	Pass	
7215.0	33.8	30.1	A	-	1.0	33.8	52.6	54.0	-1.4	Pass	
2445.0	73.3	55.5	P	-	1.0	73.3	109.3	125.0	-15.7	Pass	
2445.0	71.2	53.2	A	-	1.0	71.2	107.2	125.0	-17.8	Pass	
4890.0	51.5	49.2	P	-	1.0	51.5	62.3	74.0	-11.6	Pass	
4890.0	40.0	36.8	A	-	1.0	40.0	50.8	54.0	-3.1	Pass	
2470.0	72.6	61.5	P	-	1.0	72.6	108.6	125.0	-16.4	Pass	FULL PWR
2470.0	70.2	58.6	A	-	1.0	70.2	106.2	125.0	-18.8	Pass	
2483.5	28.4	27.0	P	-	1.0	28.4	64.4	74.0	-9.6	Pass	band edge
2483.5	16.7	13.8	A	-	1.0	16.7	52.7	54.0	-1.3	Pass	
4940.0	51.6	50.3	P	-	1.0	51.6	62.5	74.0	-11.5	Pass	
4940.0	39.5	37.7	A	-	1.0	39.5	50.4	54.0	-3.6	Pass	
2475.0	67.6	55.0	P	-	1.0	67.6	103.6	125.0	-21.4	Pass	next highest
2475.0	65.5	43.5	A	-	1.0	65.5	101.5	125.0	-23.5	Pass	frequency
4950.0	48.7	47.1	P	-	1.0	48.7	59.6	74.0	-14.4	Pass	Reduced power
4950.0	34.8	33.0	A	-	1.0	34.8	45.7	54.0	-8.3	Pass	
2483.5	29.6	25.8	P	-	1.0	29.6	65.6	74.0	-8.4	Pass	nhf band edge
2483.5	17.3	14.2	A	-	1.0	17.3	53.3	54.0	-0.7	Pass	
2480.0	51.6	40.1	P	-	1.0	51.6	87.6	125.0	-37.4	Pass	Reduced power
2480.0	47.1	36.0	A	-	1.0	47.1	83.1	125.0	-41.9	Pass	to meet band
2483.5	28.9	24.7	P	-	1.0	28.9	64.9	74.0	-9.1	Pass	
2483.5	16.9	13.7	A	-	1.0	16.9	52.9	54.0	-1.1	Pass	

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	15 of 26

## Test Results: EUT complies.

### Additional Observations:

- The Spectrum was searched from 30MHz to the 10<sup>th</sup> 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 Peak (RBW 1MHz/VBW 3MHz) and Average (RBW 1MHz/VBW 10Hz) measurements conducted above 1GHz. Duty cycle 100 %.
- Emissions measuring greater than 20 dB from the limit were not included in the table presented.

### Emissions calculation example:

Frequency 4810 MHz average  
 Maximum measured vertically – average detector max hold = 40.0 dB $\mu$ V  
 Add 31.9 dB/m for antenna factor = 71.9 dB $\mu$ V/m  
 Add 10.8 dB for cable loss = 82.7 dB $\mu$ V/m  
 Subtract 31.8 dB for preamplifier gain = 50.9 dB $\mu$ V/m (spreadsheet doesn't allow for rounding)  
 Result is 3.1 below limit of 15.209, therefore frequency emission passes.

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	16 of 26

## 5.2. Maximum peak output power

**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.

### Test Conditions:

<b>Model Number:</b>	12860-001	<b>Temperature:</b>	22°C
<b>Date:</b>	February 8, 2010	<b>Humidity:</b>	43%RH
<b>Modification State:</b>	Lo/Mid/High Channels	<b>Tester:</b>	Alan Laudani
<b>Laboratory:</b>			Nemko SR1

### Test Results:

#### Conducted Output Power:

The antenna port of the EUT was connected to the input of a spectrum analyzer. The Resolution BW was set greater than the 6 dB bandwidth, peak hold. The cable's loss was accounted for by a 0.3 dB offset. The power was taken with freshly installed batteries. The input level was set to the level found during Radiated Emissions to ensure band edge compliance.

Power Level Programmed	Frequency	Measured Output dBm	Measured Output W	Gain dBi	EIRP
07	2405 MHz	0.80	0.0012	2.20	3.0
15	2440 MHz	12.27	0.0169	2.20	14.5
15	2470 MHz	12.43	0.0175	2.20	14.6
11	2475 MHz	8.24	0.0067	2.20	10.4
03	2480 MHz	-8.11	0.0002	2.20	-5.9

Original measurement was 0.0182 W within the uncertainty of measurement.

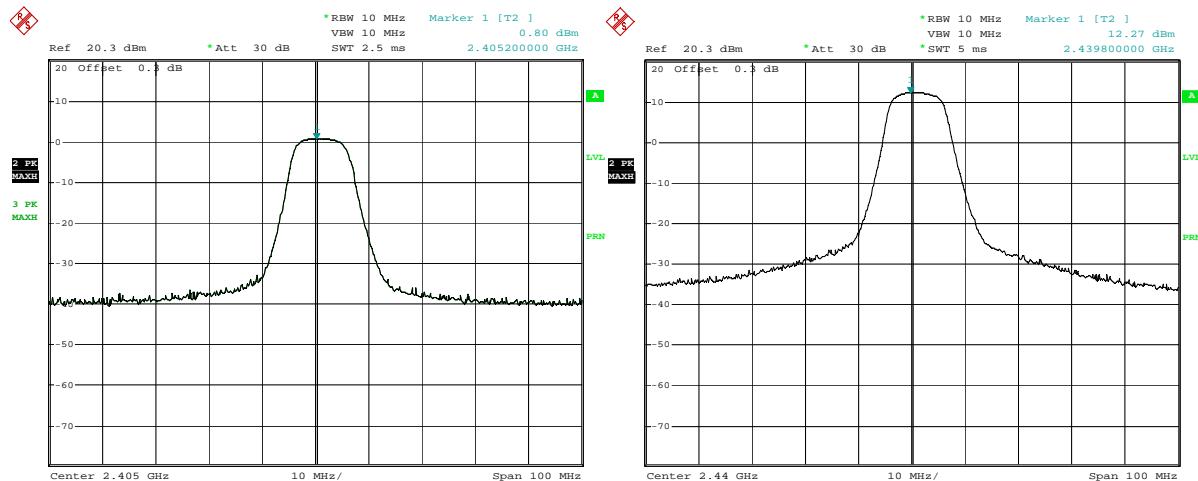
# Nemko USA, Inc.

11696 Sorrento Valley Road, Suite F, San Diego,

CA 92121

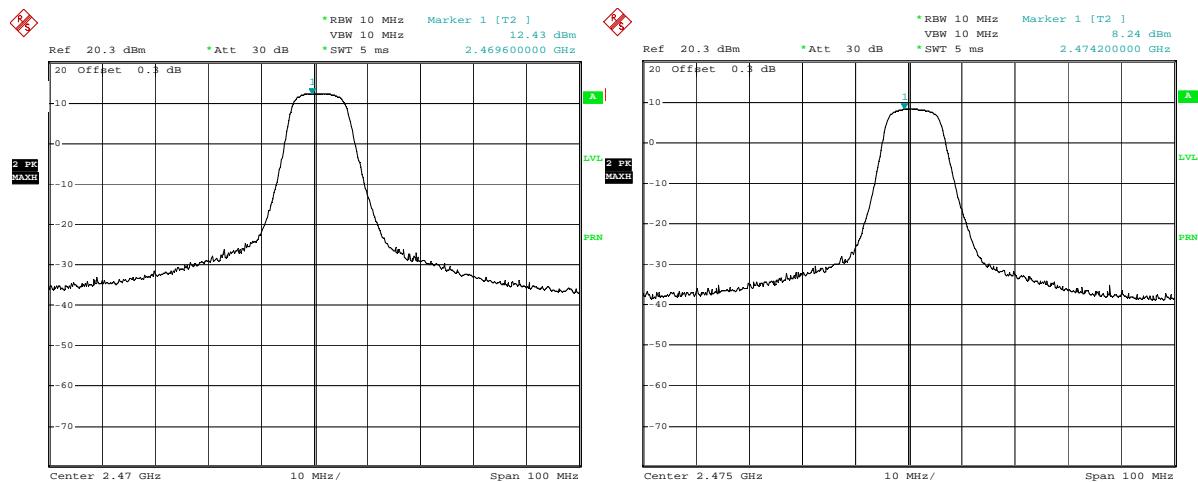
Phone (858) 755-5525 Fax (858) 452-1810

DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	17 of 26



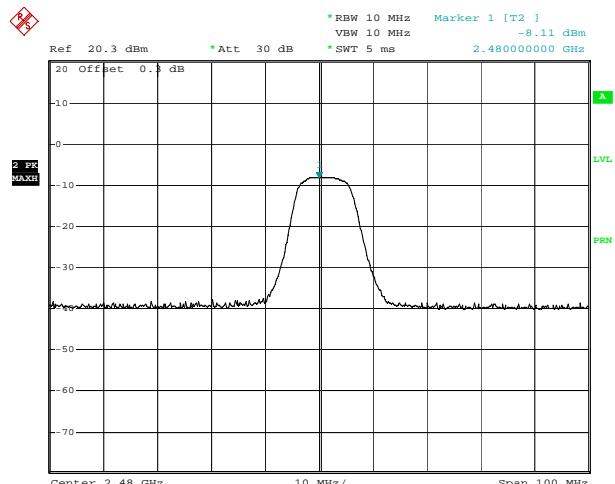
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Date: 8.FEB.2010 13:57:46



Date: 8.FEB.2010 13:47:10

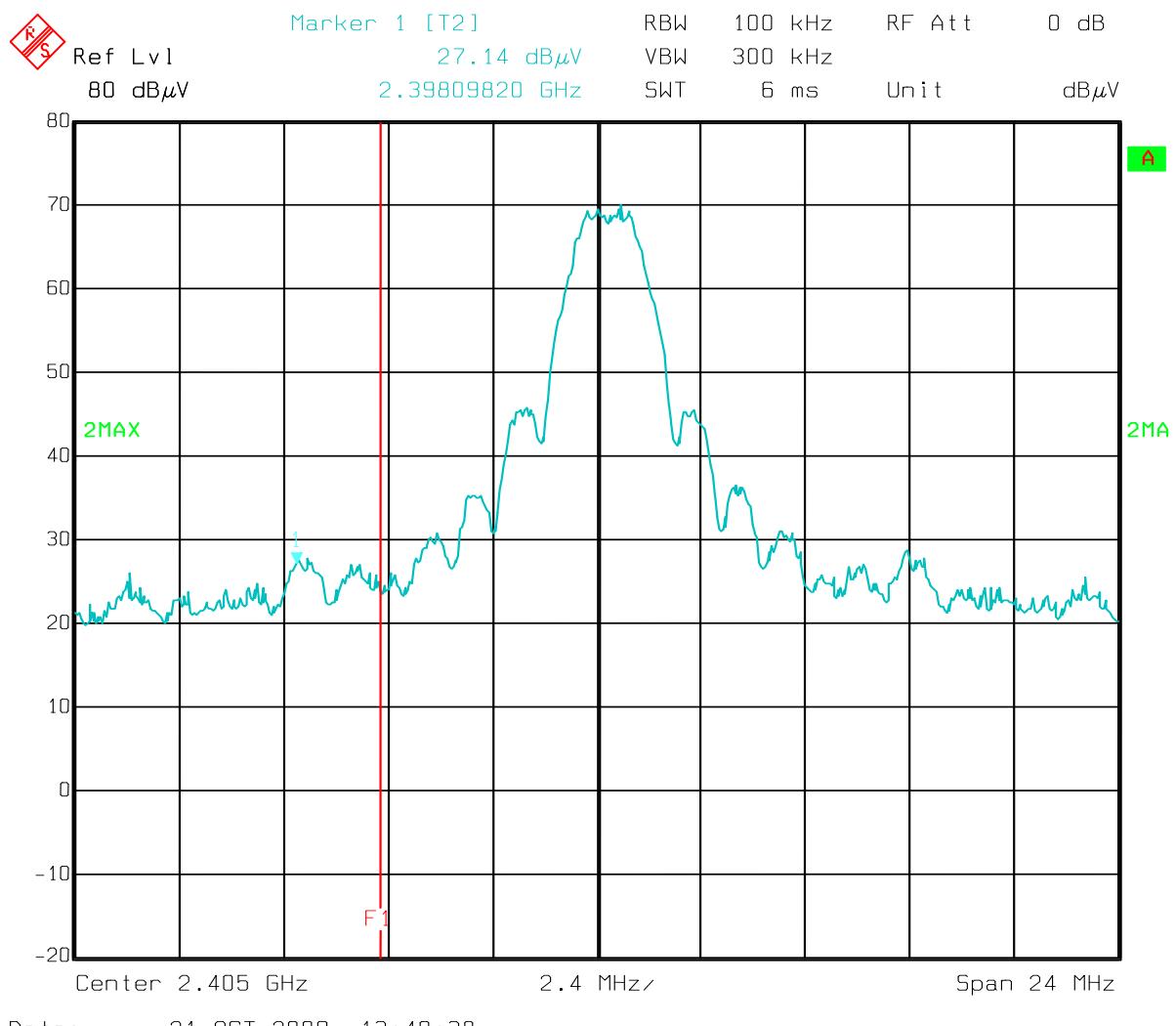
Date: 8.FEB.2010 13:41:50



Date: 8.FEB.2010 13:39:13

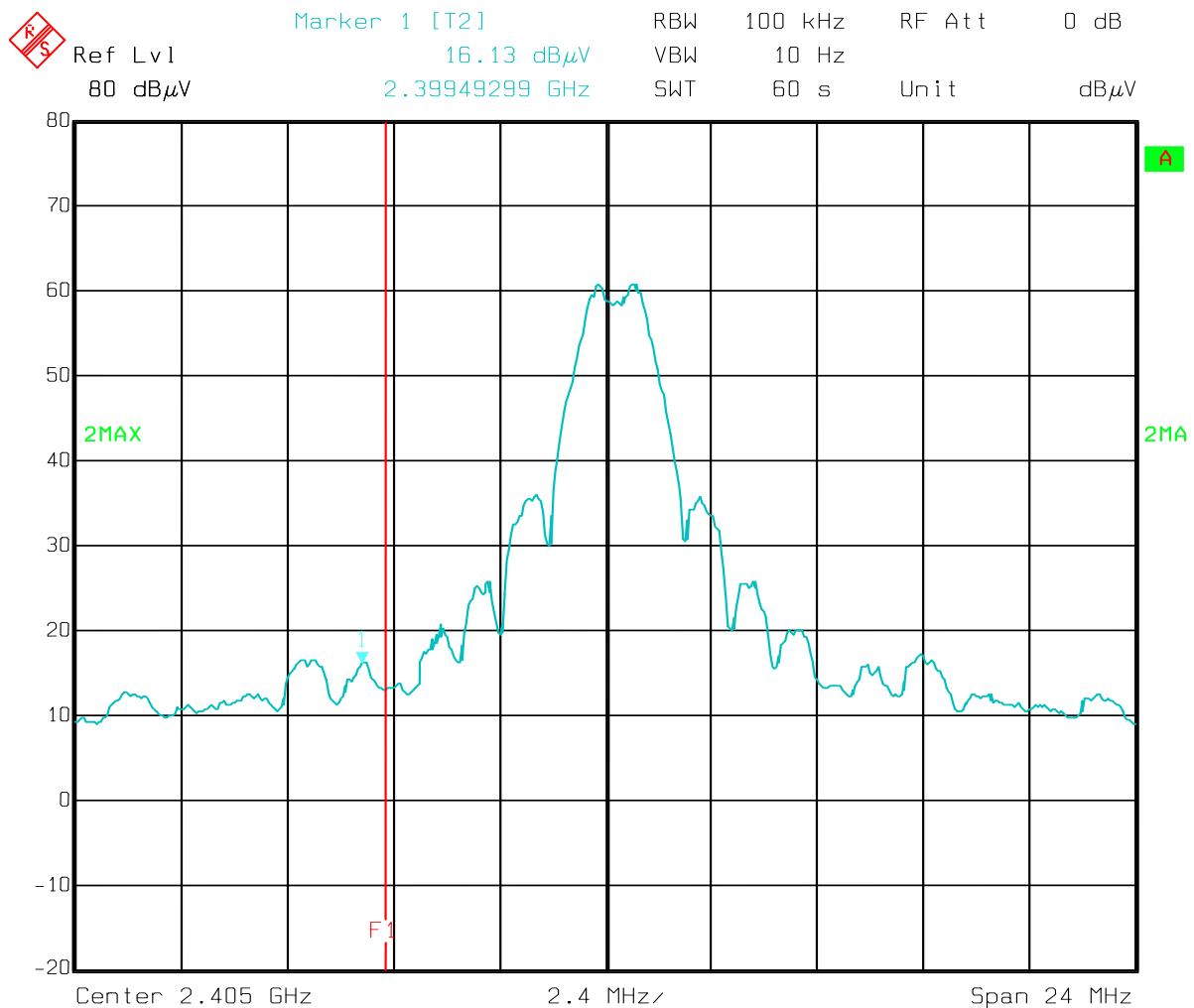
DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	18 of 26

### 5.3. Bandedge Measurements



Marker frequency is 2400MHz  
Limit used is 20dB from peak max hold.

DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	19 of 26



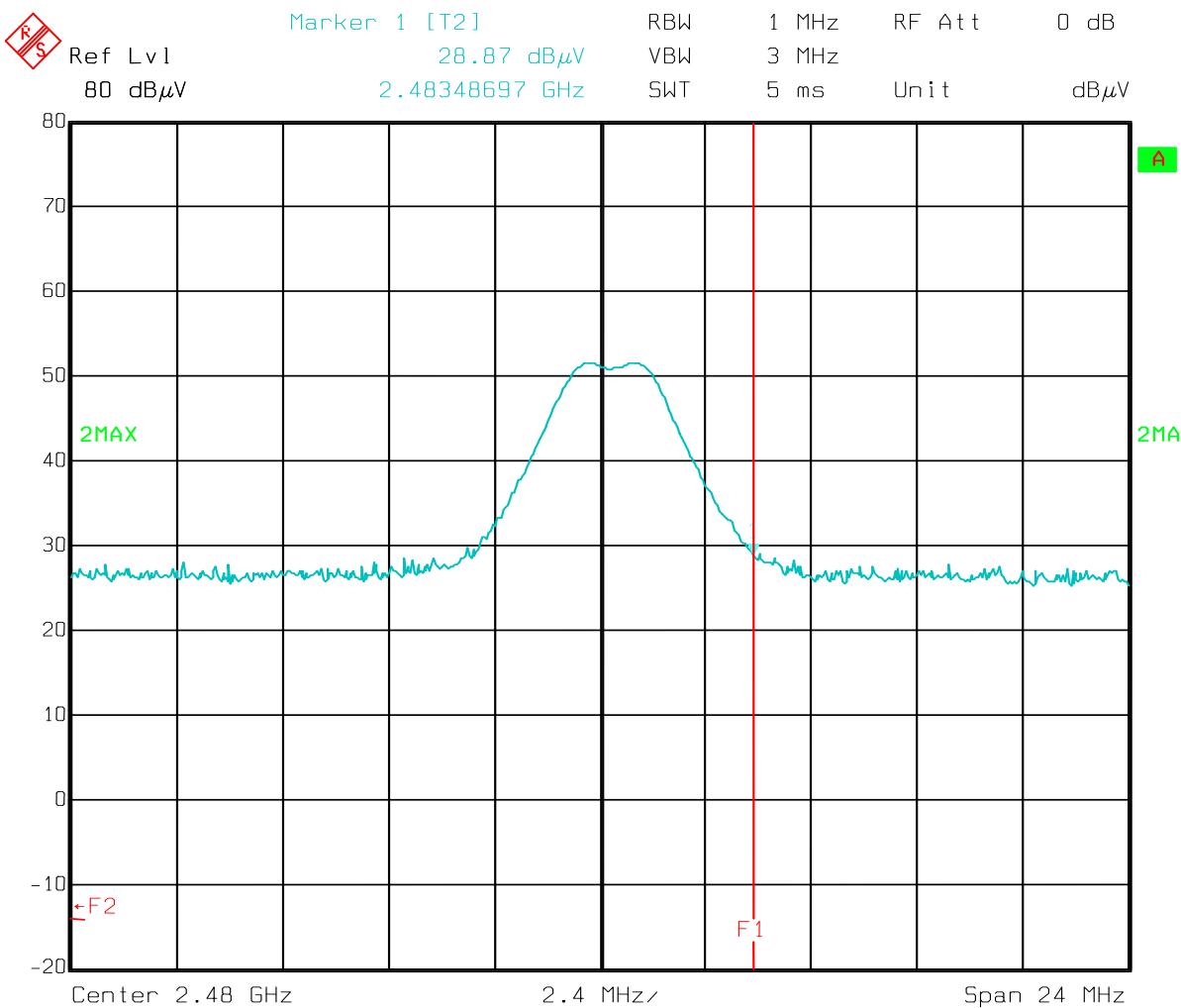
Date: 21.OCT.2009 13:42:03

#### Low Channel 2405 MHz (Average Measurement)

Marker frequency is 2400MHz  
Limit used is 20dB from average max hold.

DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	20 of 26

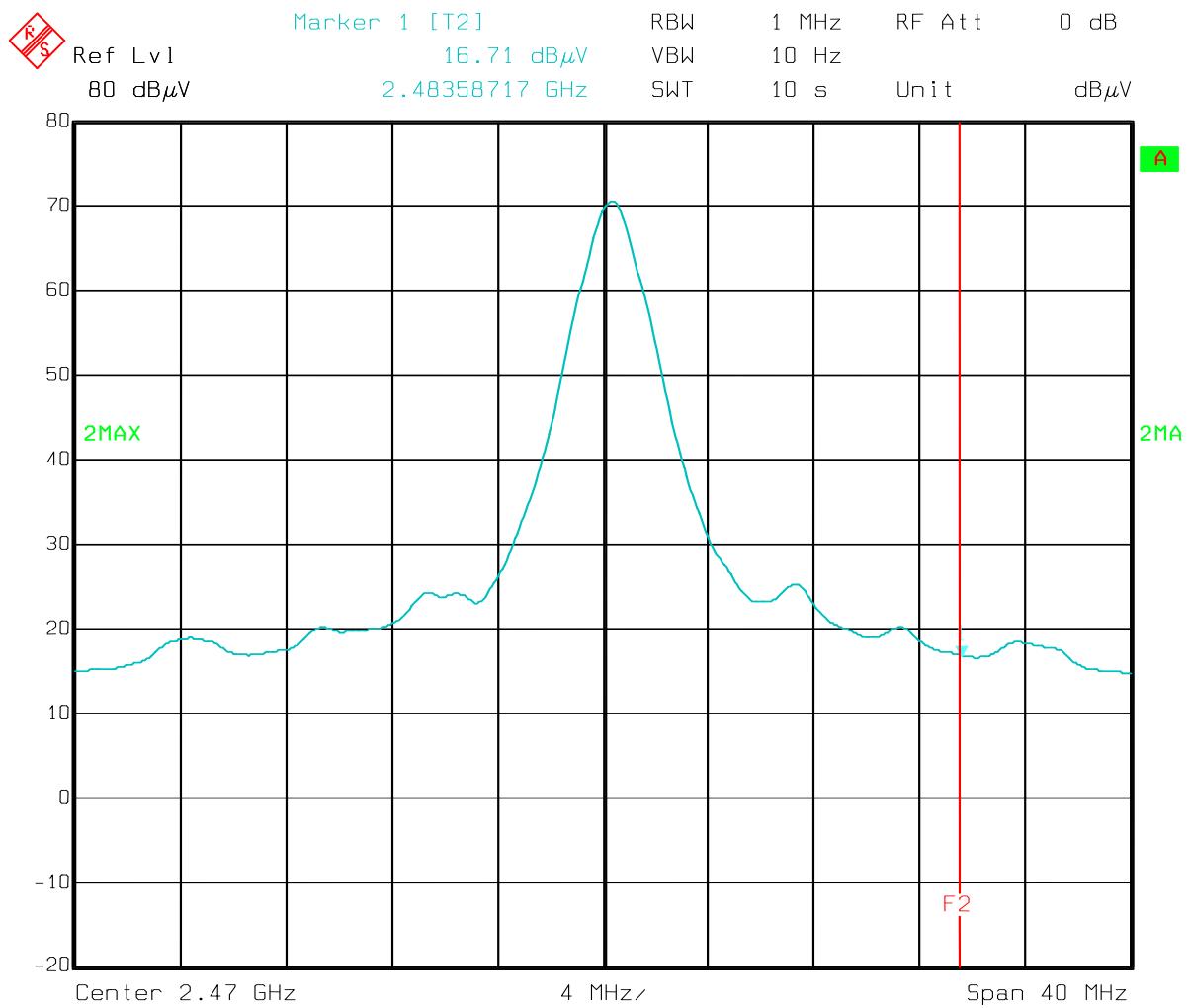
**Upper Band Edge**  
**Power reduced to meet limit,**  
**therefore each next higher frequency is presented**  
**until the full power is used.**



Date: 21.OCT.2009 10:59:19

**High Channel 2480 MHz (Peak Measurement)**  
**Max hold.**  
**Marker frequency is 2483.5 MHz**  
**Limit used is 74 dB per 15.209 and 15.205**  
**Power reduced to meet limit.**

DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	21 of 26

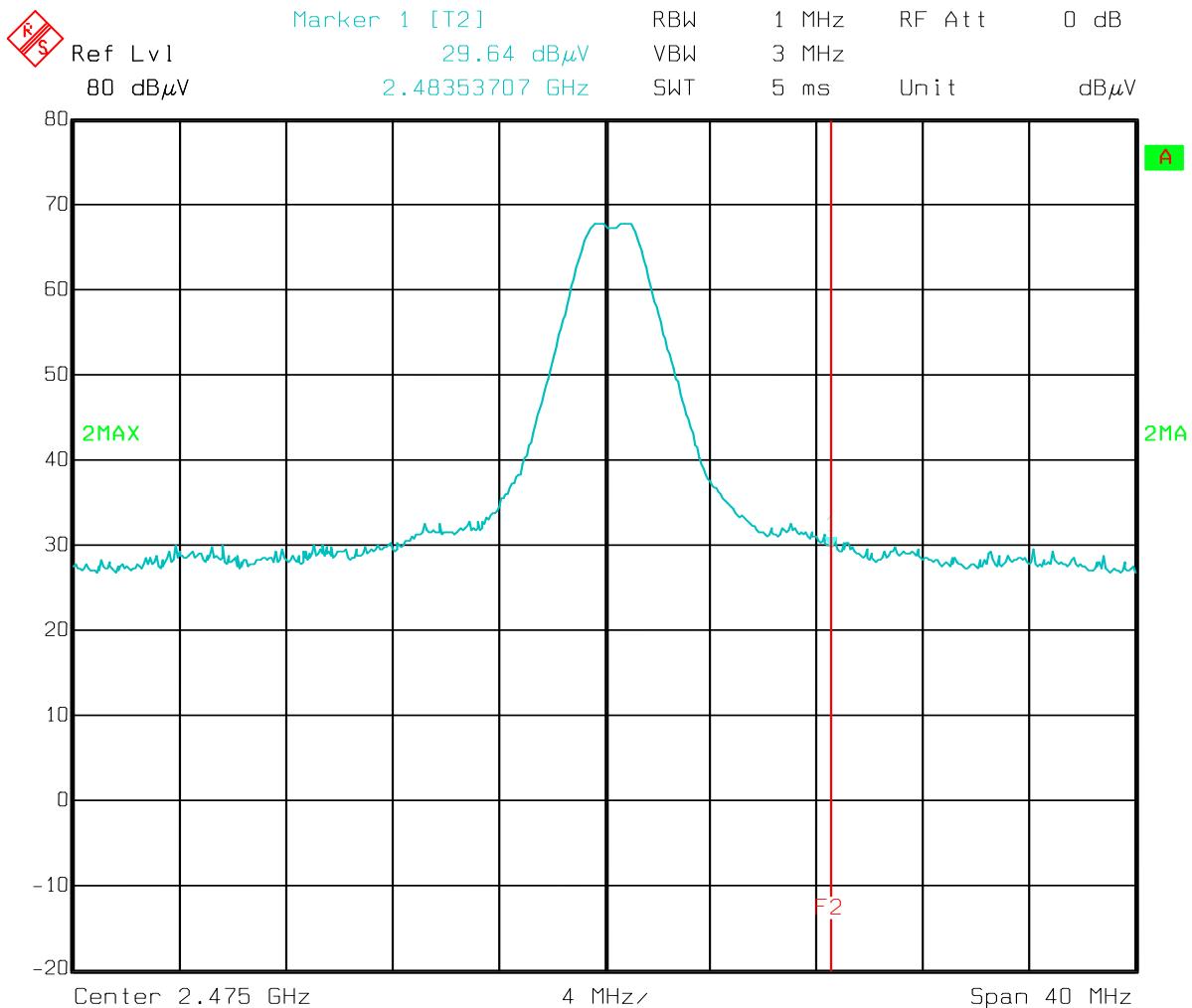


Date: 21.OCT.2009 12:45:51

High Channel 2480 MHz (Average Measurement)  
Max hold.

Marker frequency is 2483.5 MHz  
Limit used is 54 dB per 15.209 and 15.205  
Power reduced to meet limit.

DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	22 of 26

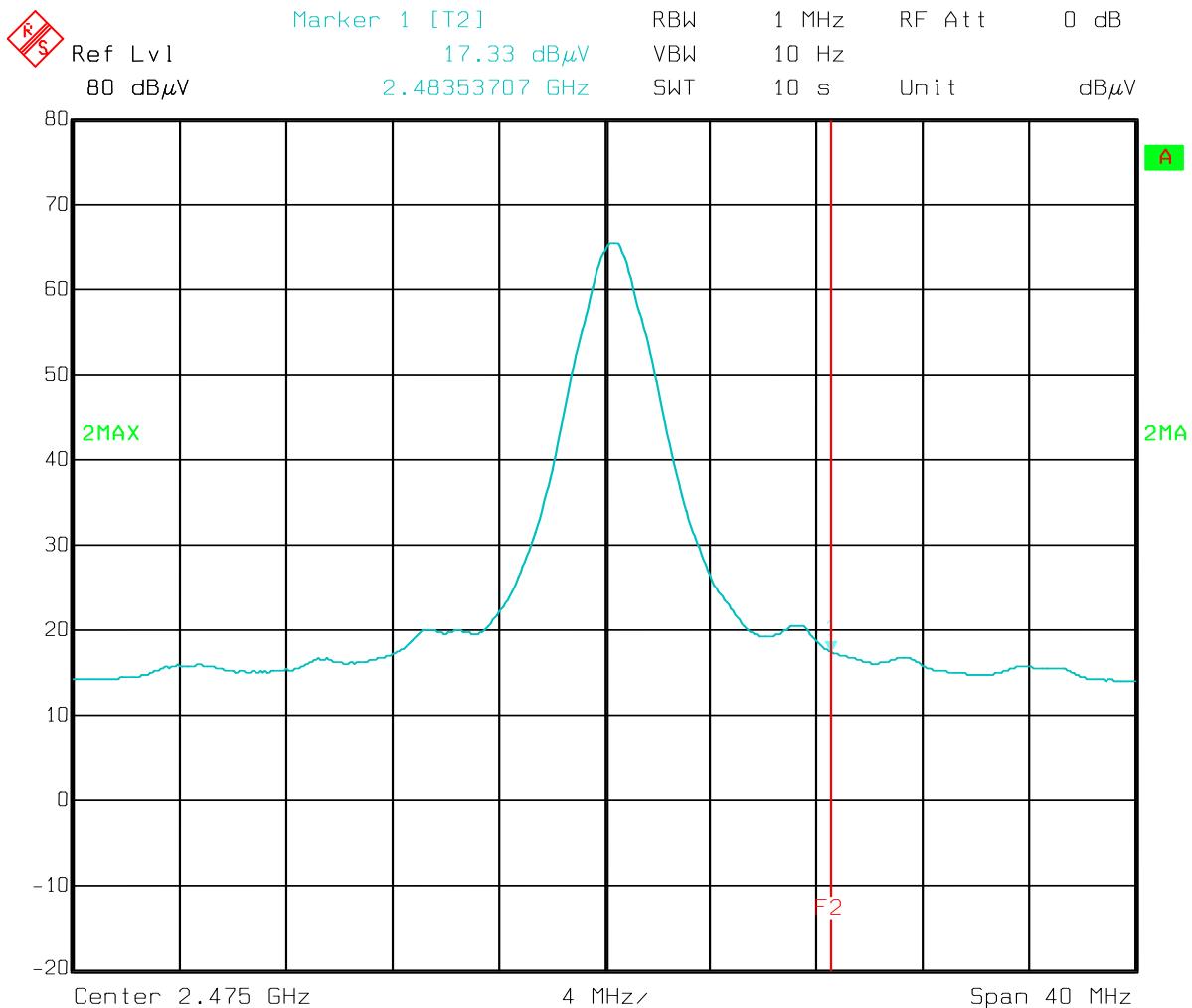


Date: 21.OCT.2009 12:12:00

**High Channel 2475 MHz (Peak Measurement)  
Max hold.**

Center frequency is 2483.5 MHz  
Limit used is 74 dB per 15.209 and 15.205  
Power reduced to meet limit.

DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	23 of 26

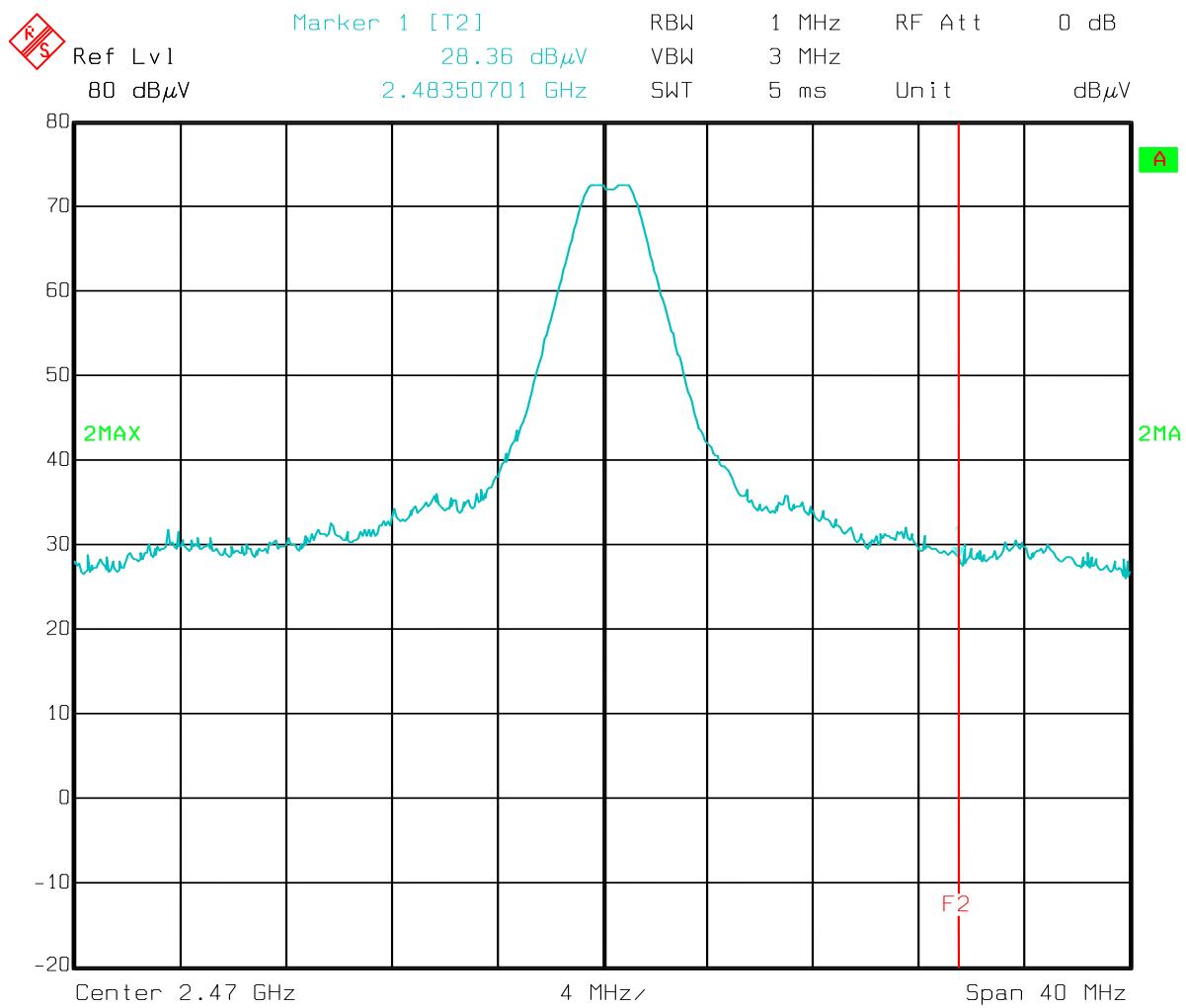


Date: 21.OCT.2009 12:12:49

High Channel 2475 MHz (Average Measurement)  
Max hold.

Marker frequency is 2483.5 MHz  
Limit used is 54 dB per 15.209 and 15.205  
Power reduced to meet limit.

DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	24 of 26

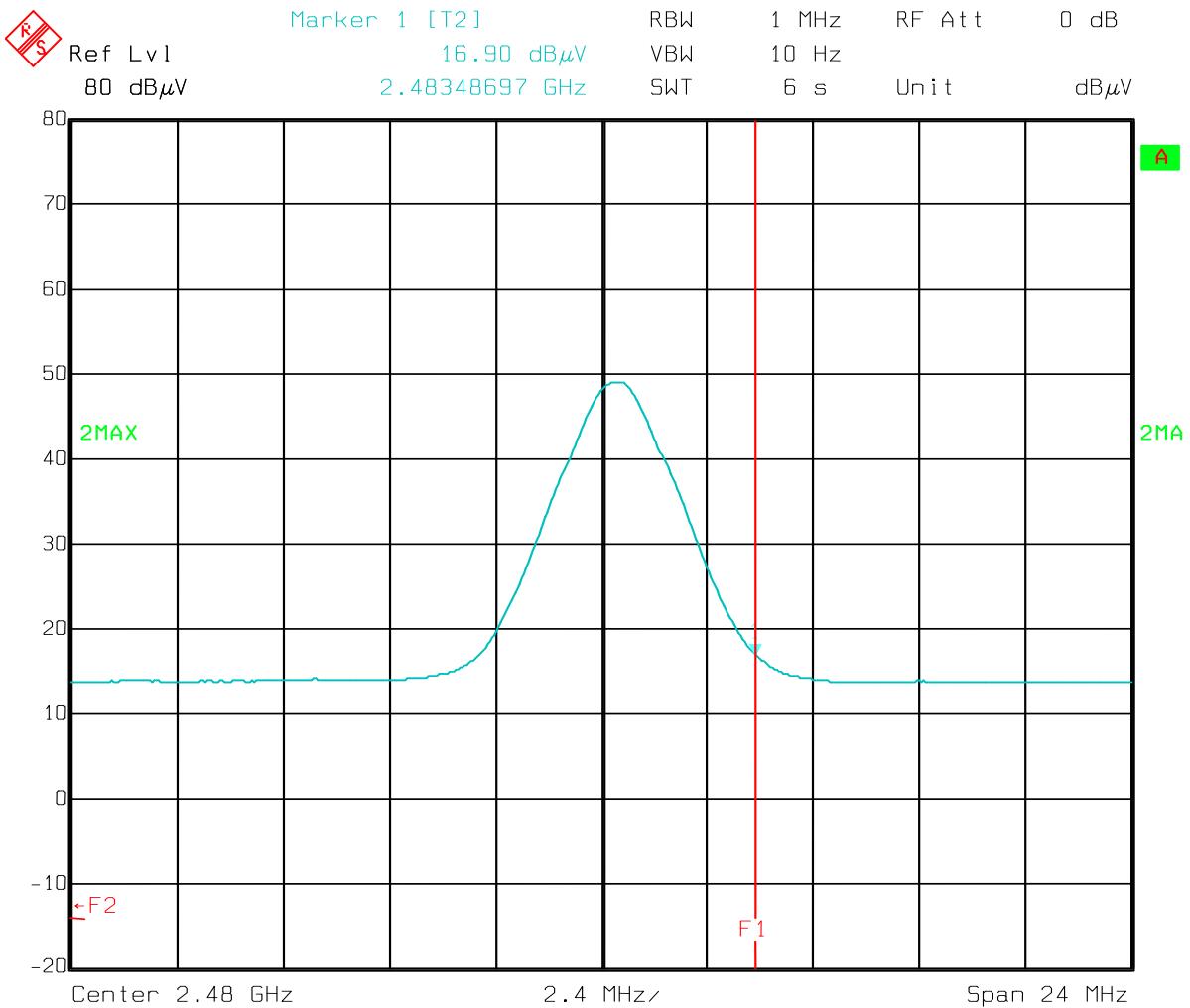


Date: 21.OCT.2009 12:46:56

**High Channel 2470 MHz (Peak Measurement)  
Max hold.**

**Center frequency is 2483.5 MHz  
Limit used is 74 dB per 15.209 and 15.205  
Full available Power**

DATE	DOCUMENT NAME	DOCUMENT #	PAGE
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K	2009 10136358 SDC	25 of 26



Date: 21.OCT.2009 10:58:35

High Channel 2470 MHz (Average Measurement)  
Max hold.

Marker frequency is 2483.5 MHz  
Limit used is 54 dB per 15.209 and 15.205  
Full available Power

<b>Nemko USA, Inc.</b>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
<b>DATE</b>	<b>DOCUMENT NAME</b>		<b>DOCUMENT #</b>	<b>PAGE</b>
February 8, 2010	SDC Certification Test Report FCC ID: T8H-SDC2K IC: 6498A-SDC2K		2009 10136358 SDC	26 of 26

## 5.4. Test Equipment

<b>Nemko ID</b>	<b>Device</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial Number</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
110	Antenna, LPA	Electrometrics	LPA-25	1217	1/10/2009	2/10/2011
115	Antenna, Bicon	EMCO	3104	3020	9/15/2008	9/15/2010
317	Preamplifier	HP	8449A	2749A00167	4/16/2009	4/16/2010
625	Antenna, Dbl Ridge Horn	EMCO	3116	2325	5/19/2009	5/19/2011
835	Spectrum Analyzer	Rohde & Schwarz	RHDFSEK	829058/005	3/31/2009	3/31/2010
877	Antenna, DRG Horn, .7-18GHz	AH Systems	SAS-571	688	7/28/2008	7/28/2010