Nemko USA, Inc.
2210 Faraday Ave, Suite 150
Carlsbad, CA 92008
Phone (760) 444-3500 Fax (760) 444-3005

# CERTIFICATION TEST REPORT

| | |
|---|---|
| Applicant: | INDYME SOLUTIONS, INC.<br>8295 AERO PLACE<br>San Diego, CA 92123 |
| Equipment Under Test (EUT): | WIRELESS CALL BOX |
| Model: | CB929A |
| FCC ID:<br>IC: | J69CB929A<br>1809A-CB929A |
| In Accordance With: | FCC Part 15 Subpart C, 15.247<br>IC RSS-210 Issue 8 December 2010<br>IC RSS-Gen Issue 3 December 2010 |
| Authorized By: | Nemko USA Inc.<br>2210 Faraday Street, Suite 150<br>Carlsbad, CA 92008 |
| Tested By: | A. LAUDANI, EMC/RF Test Engineer |
| Date:<br>Report Number:<br>Project Number:<br>Nex Number:<br>Total Number of Pages: | MAY 13, 2013<br>2013 05235320 FCC<br>Q10228218<br>235320<br>24 |

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# Applicant Affirmation

Steve Deal representing Indyme Solutions, Inc. hereby affirms:

a) That he/she has reviewed and concurs that the test shown in this report are reflective of the operational characteristics of the device for which certification is sought;

b) That the device in this test report will be representative of production units;

c) That all changes (in hardware and software/firmware) to the subject device will be reviewed.

d) That any changes impacting the attributes, functionality or operational characteristics documented in this report will be communicated to the body responsible for approving (certifying) the subject equipment.

Steve Deal, CEO
Date: August 16, 2013

8295 Aero Place
San Diego, CA 92123
Address

858-707-8525
Telephone number

Regulatory.contact@indyme.com
Email address of official

*NOTE—This affirmation must be signed by the responsible party before it is submitted to a regulatory body for approval.*

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# Section 1. Summary of Test Results

## 1.1 General

All measurements are traceable to national standards

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15; Subpart C and RSS-210, Issue 8 December 2010. Radiated tests were conducted is accordance with ANSI C63.4-2003. Radiated emissions are made in the 10m anechoic chamber. A description of the test facility is on file with the FCC and IC.

The assessment summary is as follows:

| | |
|---|---|
| Apparatus Assessed: | CB929A |
| Specifications: | FCC Part 15 Subpart C, 15.247<br>IC RSS-210 Issue 8 December 2010<br>IC RSS 210 (Issue 8, December 2010) Annex 8 |
| Date Received in Laboratory: | NOVEMBER 6, 2012 |
| Compliance Status: | Complies |
| Exclusions: | None |
| Non-compliances: | None |

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## 1.2 Report Release History:

| REVISION | DATE | COMMENTS | |
|---|---|---|---|
| - | May 13, 2013 | Prepared By: | A. Laudani |
| - | May 13, 2013 | Initial Release: | Alan Laudani |

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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TESTED BY: _____ Date: May 13, 2013
Alan Laudani, EMC Engineer

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# Section 2: Equipment Under Test

## 2.1 Product Identification

| DEVICE | MANUFACTURER<br>MODEL #<br>SERIAL # | POWER CABLE |
|---|---|---|
| EUT - Wireless Call Box | Indyme Solutions, Inc.<br>Model: CB929A<br>Serial #: None | Internal Battery, 3V Lithium, Duracell 2/3A (CR123A) |

| Connection | I/O Cable |
|---|---|
| | None |

## 2.2 Theory of Operation

The CB929A is a Wireless Call Box. Its function is to alert an operator that there is somebody that requires assistance is waiting. Feedback to the user is giving via a flashing light according to the message received from an access point. The EUT was exercised by continuously transmitting in a test mode.

The EUT's performance during test was evaluated against the performance criterion specified by applicable test standards. Performance results are detailed in the test results section of this report.

## 2.3 Technical Specifications of the EUT

Manufacturer: Indyme Solutions, Inc.

Operating Frequency: 918.1 – 923.0 MHz in the 902-928 MHz Band

Number of Operating Freq.: 50

Rated Power: 0.008 W

Modulation: FSK

Antenna Connector: Soldered to circuit board

Power Source: 3.3 V Battery

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# Section 3: Test Conditions

## 3.1 Specifications

The apparatus was assessed against the following specifications:

*FCC Part 15 Subpart C, 15.247*
Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5850 MHz and 24.0-24.25 GHz bands.

*IC RSS-210 Issue 8 December 2010*
Low-power Licence-exempt Radio-communication Devices (All Frequency Bands): Category I Equipment. Annex 8 - Frequency Hopping and Digital Modulation Systems Operating in the Bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

*IC RSS-Gen Issue 3 December 2010*
General Requirements and Information for the Certification of Radio-communication Equipment

## 3.3 Test Environment

All tests were performed under the following environmental conditions:

| | |
|---|---|
| Temperature range | 15.6 – 23.3 $^{o}$C |
| Humidity range | 26 - 65 % |
| Pressure range | 86 - 106 kPa |
| Power supply range | +/- 1% of rated voltages |

## 3.4 Test Equipment

| Asset No. | Description | Model Number | Serial Number | Last Cal. | Cal due |
|---|---|---|---|---|---|
| 111 | Antenna, LPA | EMCO | 3146 | 1382 | 1/9/2014 |
| E1045 | Biconical Antenna | A.H. Systems Inc. | SAS-540 | 735 | 4/22/2014 |
| E1029 | Preamplifier (20MHz - 18GHz) | A.H. Systems, Inc. | PAM-0118 | 343 | 1/21/2014 |
| 529 | Antenna, DRWG | EMCO | 3115 | 2505 | 10/31/2013 |
| 902 | pre amp | Sonoma | 310 N | 185803 | 7/19/2013 |
| 911 | Spectrum Analyzer | Agilent | E4440A | US41421266 | 10/15/2013 |
| | | | | | |

Registration of the 10m anechoic chamber is on file with the Federal Communications Commission and with Industry Canada under Site Number 2040B-3.

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# Section 4: Observations

## 4.1 Modifications Performed During Assessment

No modifications were performed during assessment.

## 4.2 Record Of Technical Judgments

No technical judgements were made during the assessment.

## 4.3 EUT Parameters Affecting Compliance

The user of the apparatus could not alter parameters that would affect compliance.

## 4.4 Deviations From Laboratory Test Procedures

No deviations from Laboratory Test Procedure

## 4.5 Test Deleted

No Tests were deleted from this assessment.

## 4.6 Additional Observations

There were no additional observations made during this assessment.

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Section 5: Results Summary

This section contains the following:

Test Results

The column headed “Required” indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

N No: not applicable / not relevant
Y Yes: Mandatory i.e. the apparatus shall conform to these test.
N/T Not Tested, mandatory but not assessed. (See section 4.4 Test deleted)

The results contained in this section are representative of the operation of the apparatus as originally submitted.

## 5.1 Test Results

| Part 15 | RSS-210 | Test Description | Required | Result |
|---|---|---|---|---|
| 15.207 (a) | RSS-Gen 7.2.2 | Conducted Emission Limit | NA* | |
| 15.247 a1i | A8.1(c) | 20dB & 99% Bandwidth | Y | Pass |
| 12.247a1 | A8.1(c) | Channel Separation \| Average time of occupancy | Y | Pass |
| 15.247a1i | A8.1(c) | Number of Hopping Channels | Y | Pass |
| 15.247 b2 | A8.4 | Peak Output Power | Y | Pass |
| 15.209 a 15.247d | A8.5 | Radiated Emissions within Restricted Bands | Y | Pass |
| 15.247c | A8.5 | Bandedge | Y | Pass |
| 15.109 | RSS-GEN 4.10 | Receiver Spurious Emissions | Y | Pass |

* Battery powered device.

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

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# Appendix A: Test Results

## 20 dB/ 99% Bandwidth

Clause 15.247(a)(1)(i)
(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500kHz.

## Test Conditions:

| | | | |
|---|---|---|---|
| Sample Number: | CB929A | Temperature: | 20°C |
| Date: | 5/10/2013 | Humidity: | 54 % |
| Modification State: | Low /High Channels | Tester: | A. Laudani |
| | | Laboratory: | 10m Chamber |

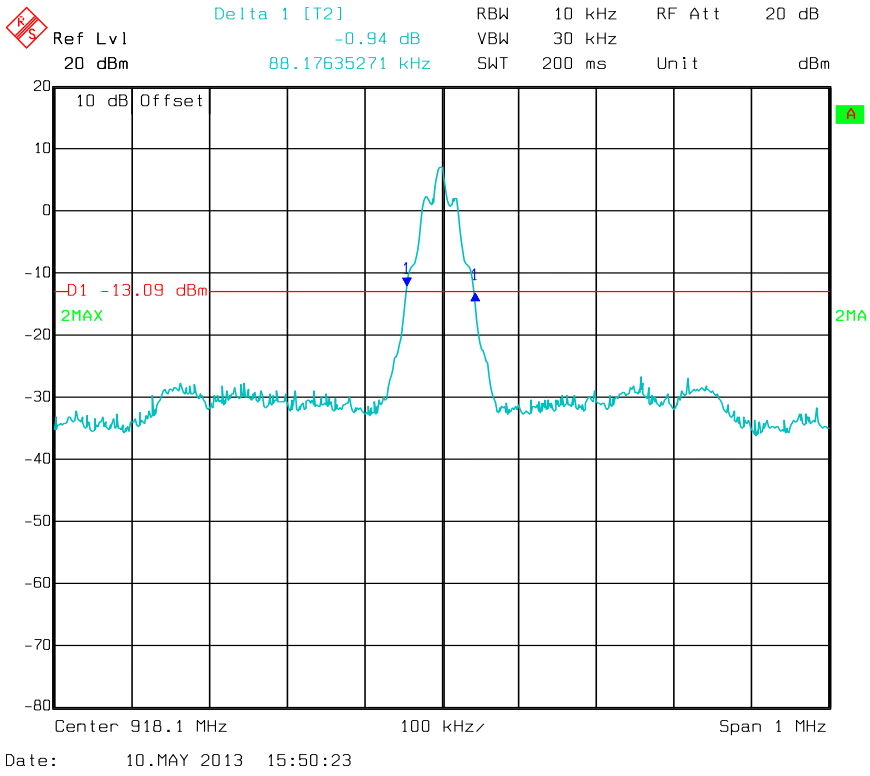
## Test Results: EUT complies

- A sma connecter “pigtail” cable was soldered into the circuit after the last RF power amplifier bypassing the on circuit antenna.
- The Spectrum Analyzer RES BW was set to 10 kHz VBW = 30kHz
- 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 20 dB bandwidth was determined from where the channel output spectrum intersected the display line.
- Span is wide enough to capture the channel transmission
- Sweep is auto
- Detector is Peak
- Trace is Max Hold
- 99% bandwidth: Used Spectrum Analyser’s programmed function.
- 20 dB bandwidth: A peak output max hold reading was taken, a display line was drawn 20 dB lower than peak level. The 20 dB bandwidth was determined from where the channel output spectrum intersected the display line.
- Observed maximum 20 dB BW is 90.1 kHz (low channel).
- Observed maximum 20 dB BW is 92.2 kHz (high channel).
- 918.1 MHz – (88.1/2) kHz = 918.056 MHz (within the frequency band)
- 923.0 MHz + (92.2/2) kHz = 923.046 MHz (within the frequency band)

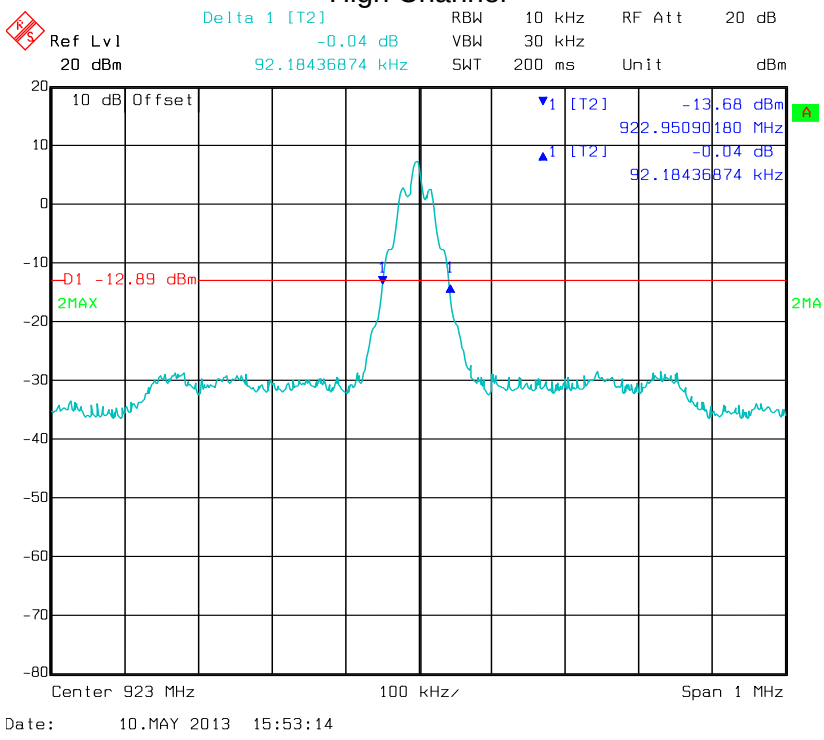
| Frequency | 20dB Bandwidth | 99% Bandwidth |
|---|---|---|
| 918.1 MHz | 88.2 kHz | 88.2 kHz |
| 923.0 MHz | 92.2 kHz | 86.2 kHz |

20dB Bandwidth

Low Channel

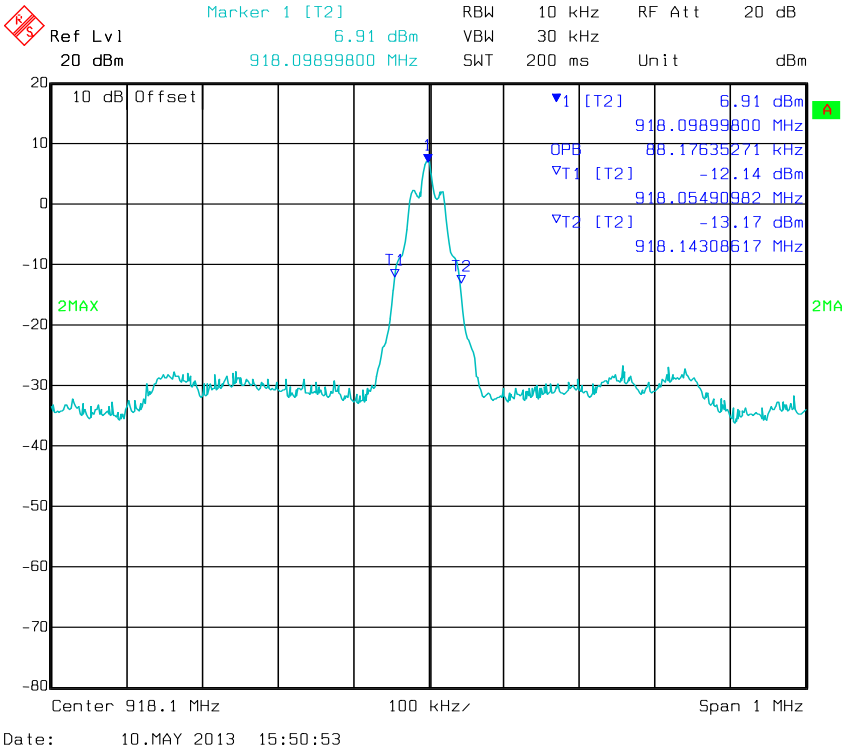



High Channel

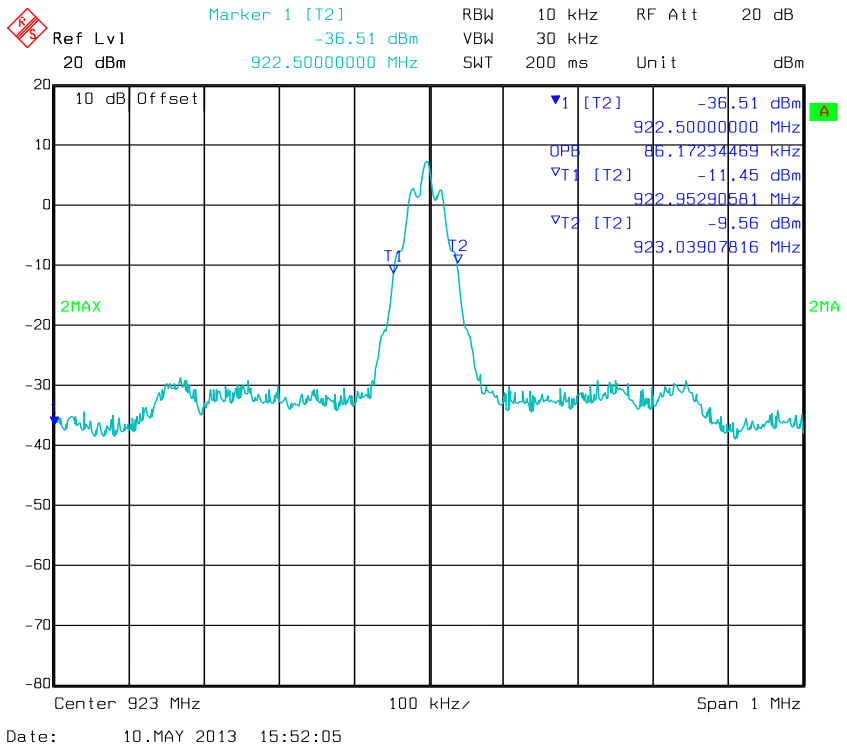


99% Bandwidth

Low Channel




High Channel



## Frequency hopping systems operating in the 902-928 MHz band

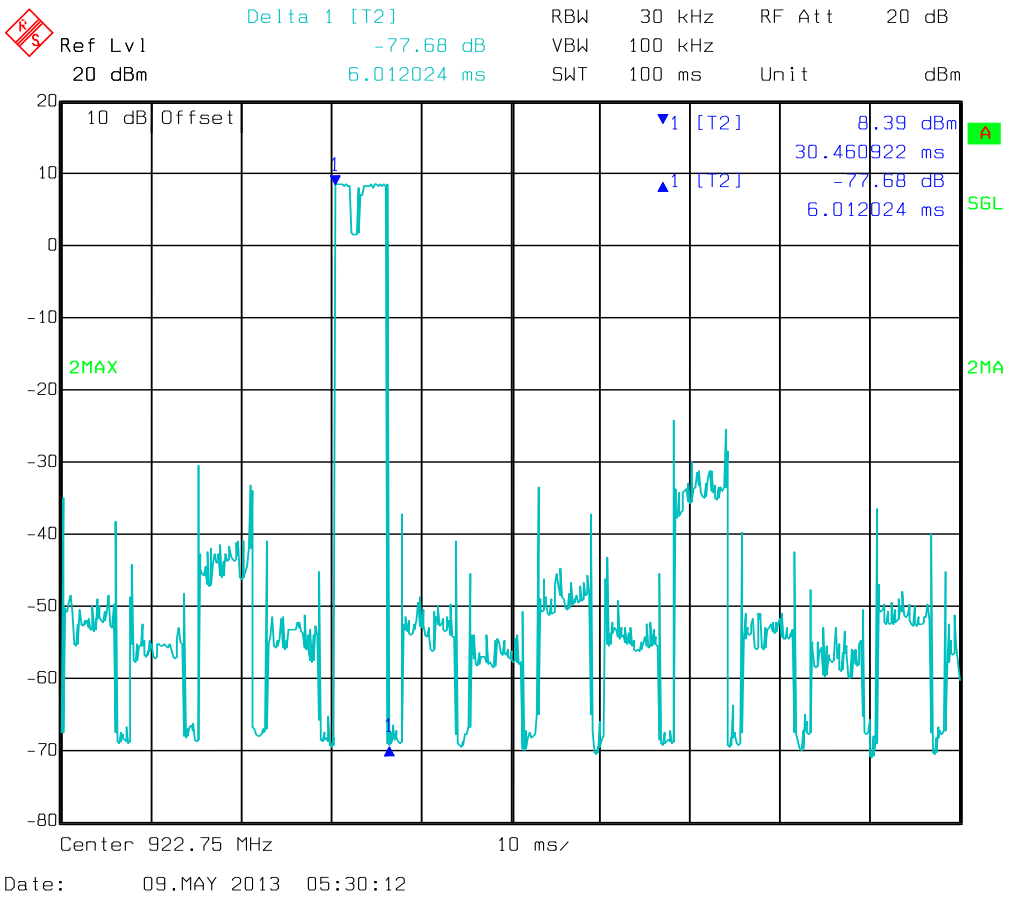
Clause 15.247(a)(1)(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

## Test Conditions:

| | | | |
|---|---|---|---|
| Sample Number: | CB929A | Temperature: | 20°C |
| Date: | 5/9/2013 | Humidity: | 54 % |
| Modification State: | Low /High Channels | Tester: | A. Laudani |
| | | Laboratory: | 10m Chamber |

## Test Results:

Channel width (on state) is 6.01 milli-seconds



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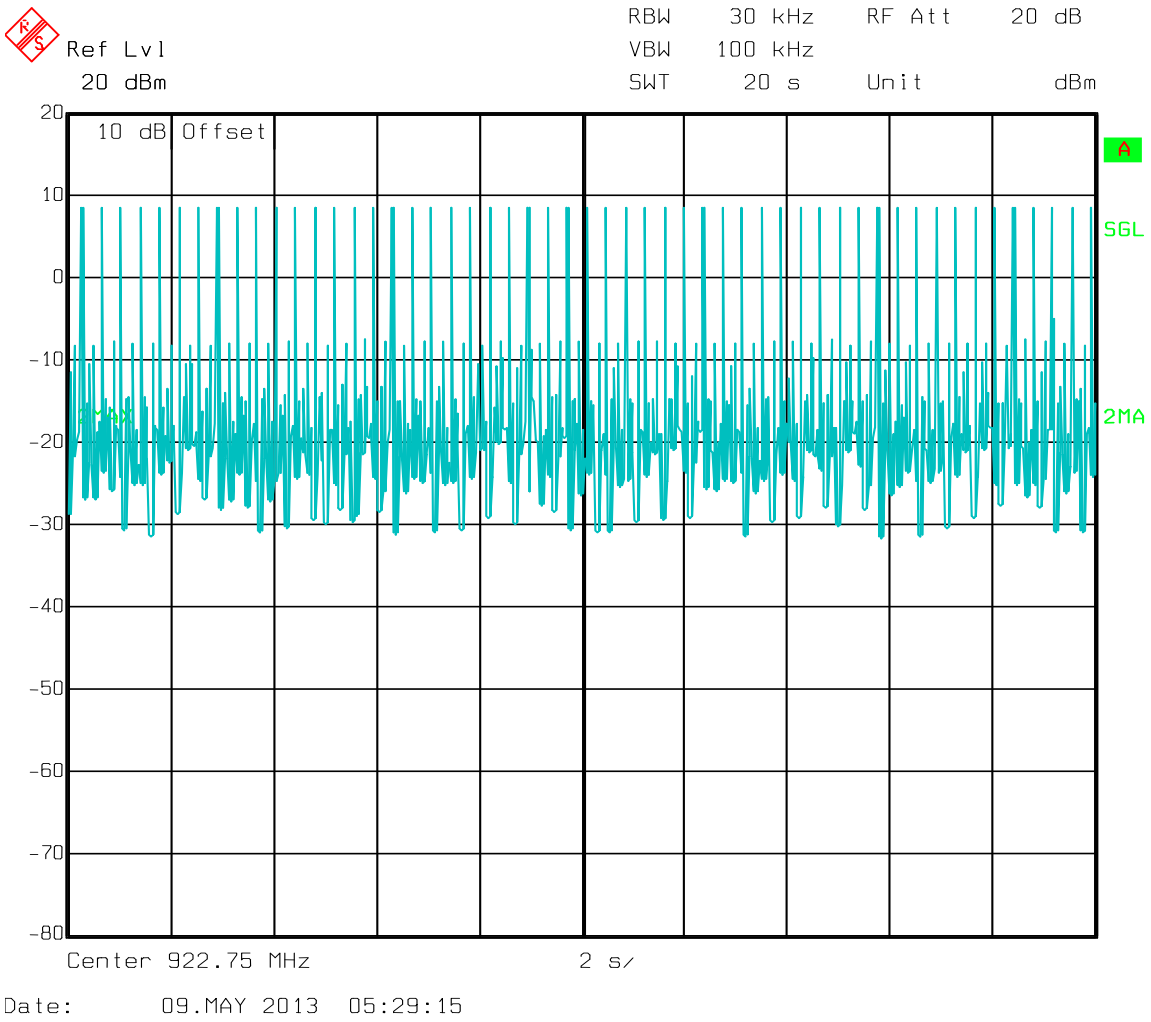
## Time of Occupancy

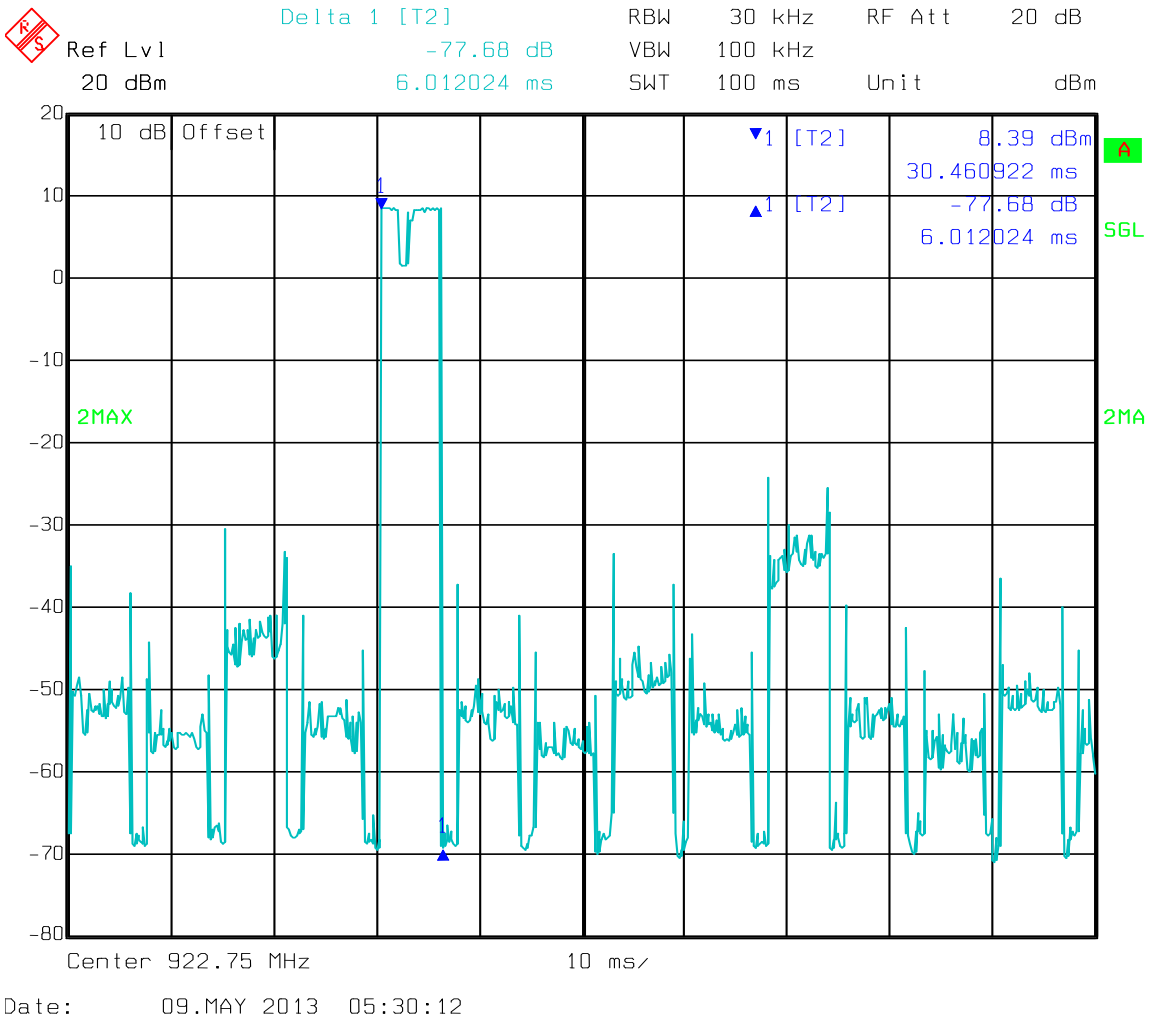
The EUT was placed <1m from the receiving antenna to allow a representative signal to fill the display > 30dB from the noise floor. The Spectrum Analyzer RES BW was set to 100 kHz. The test sample was set to hopping mode and the frequency span was set zero. The sweep was set to 20 seconds.

56 occurrences in 20 seconds x 6.01 ms = 336 ms which is less than 400 ms
EUT complies.



Duty Cycle Factor Calculation

20 x log (6ms/100ms) = -24.4 dB



## Channel Separation

Clause 15.247(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

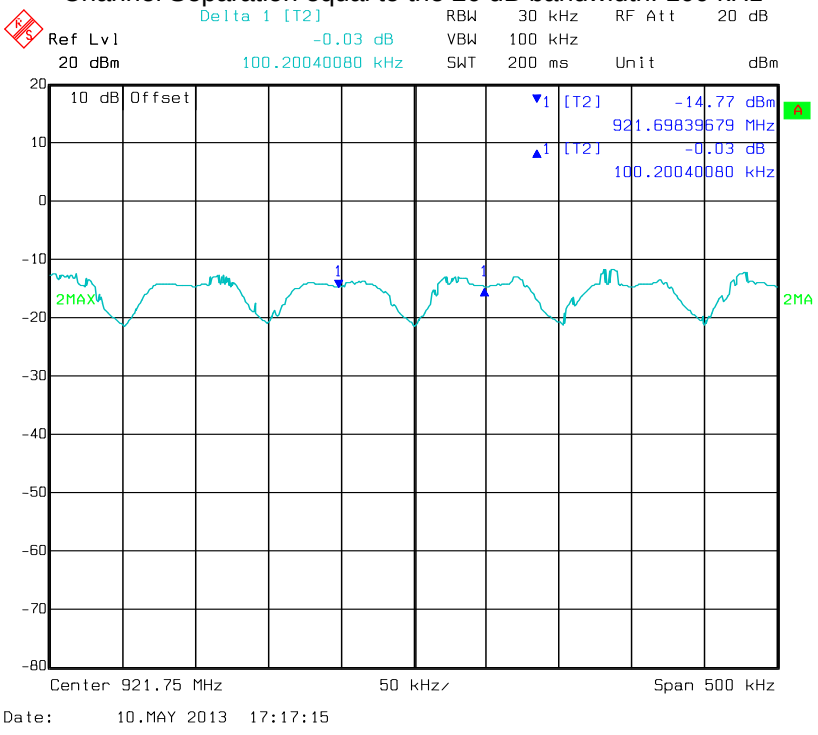
## Test Conditions:

| | | | |
|---|---|---|---|
| Sample Number: | CB929A | Temperature: | 20°C |
| Date: | 5/10/2013 | Humidity: | 54 % |
| Modification State: | Hopping Channels | Tester: | A. Laudani |
| | | Laboratory: | 10m Chamber |

## Test Results: EUT Complies

- The Spectrum Analyzer RES BW was set to 10 kHz.
- Detector was peak, max hold.
- The test sample was set to hopping mode and the frequency span was set to a value to capture two or more hopping channels.
- Marker delta shows frequency separation.

Channel Separation equal to the 20 dB bandwidth: 100 kHz



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## Frequency Plan

Clause 15.247(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.



## Test Conditions:

| | | | |
|---|---|---|---|
| Sample Number: | CB929A | Temperature: | 20°C |
| Date: | 5/10/2013 | Humidity: | 54 % |
| Modification State: | Hopping Channels | Tester: | A. Laudani |
| | | Laboratory: | 10m Chamber |

## Test Results:

The Frequency Plan is discussed in the Technical Description exhibit and was reviewed by this test engineer and was found to comply.

- 50 channels: channel 1 at 918.1 to channel 50 at 923.0 MHz
- Psuedo-Random Hopping Sequence:

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 918.1 | 921.0 | 918.9 | 921.8 | 919.7 | 922.6 | 920.5 | 918.4 | 921.3 | 919.2 | 922.1 |
| 920.0 | 922.9 | 920.8 | 918.7 | 921.6 | 919.5 | 922.4 | 920.3 | 918.2 | 921.1 | 919.0 |
| 921.9 | 919.8 | 922.7 | 920.6 | 918.5 | 921.4 | 919.3 | 922.2 | 920.1 | 923.0 | 920.9 |
| 918.8 | 921.7 | 919.6 | 922.5 | 920.4 | 918.3 | 921.2 | 919.1 | 922.0 | 919.9 | 922.8 |
| 920.7 | 918.6 | 921.5 | 919.4 | 922.3 | 920.2 | | | | | |

## Number of Hopping Channels

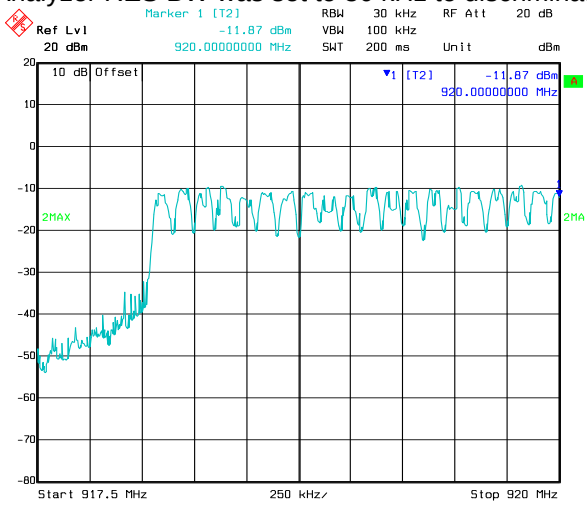
Clause 15.247(a)(1)(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

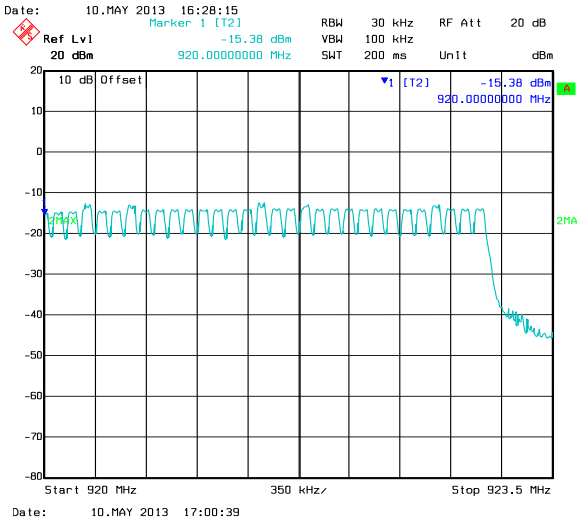
## Test Conditions:

| | | | |
|---|---|---|---|
| Sample Number: | CB929A | Temperature: | 20°C |
| Date: | 5/10/2013 | Humidity: | 54 % |
| Modification State: | Hopping Channels | Tester: | A. Laudani |
| | | Laboratory: | 10m Chamber |

## Test Results: 50 Channels, EUT complies.

- This is a conducted test
- The Spectrum Analyzer RES BW was set to 30 kHz to discriminate channels.



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## Radiated Emissions within Restricted Bands

Clause 15.209(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)).

## Test Conditions:

| | | | |
|---|---|---|---|
| Sample Number: | CB929A | Temperature: | 20°C |
| Date: | 11/6/2013 | Humidity: | 54 % |
| Modification State: | Low /High Channels | Tester: | A. Laudani |
| | | Laboratory: | 10m Chamber |

Test Results: No emissions within 20 dB of the limit.

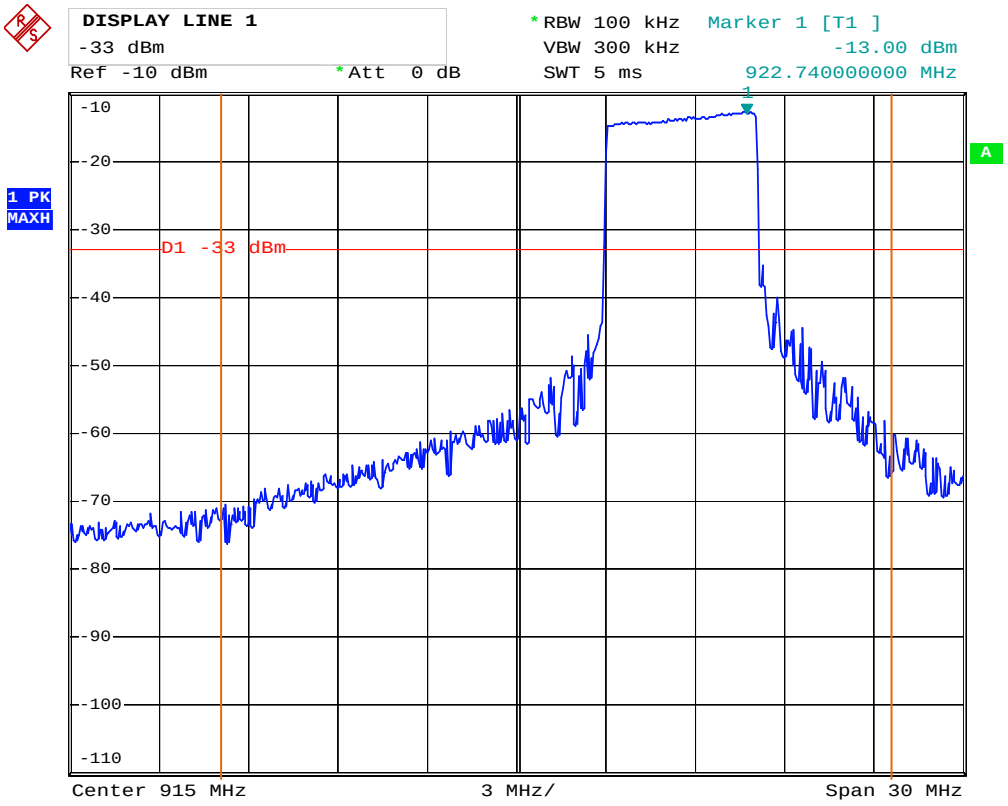
Additional Observations:

The Spectrum was searched from 30 MHz to the 10th Harmonic.
Three orthogonal axes were tried to maximize emissions.
Worst case was used in measurements presented.
A new battery was installed initially and replaced every 20 minutes of test time.
Measurements below 1GHz were performed at 3m with a Quasi-Peak detector while Peak detector was used above 1GHz.
As the emission is pulsing, a duty cycle factor was introduced to spurious harmonics. See calculation in section on Time of Occupancy.

Math example:
CR/SL Dif = Limit – Corrected Reading. Pass if result is negative.
Max of Vertical or Horizontal measured + Antenna Factor + Cable Loss – preamplifier (if used). – Duty Cycle Factor

At 3672.4 MHz: 43.3 = 58.0 + 31.25 + 10.6 – 31.9 –24.7
43.3 – 54 = -10.7
Model tested was renamed CB942A after test occurred.

Band Edges
20 dBc
Mode Hopping, peak, max hold
Orange lines band 902 to 928 MHz

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## Conducted Spurious 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)).

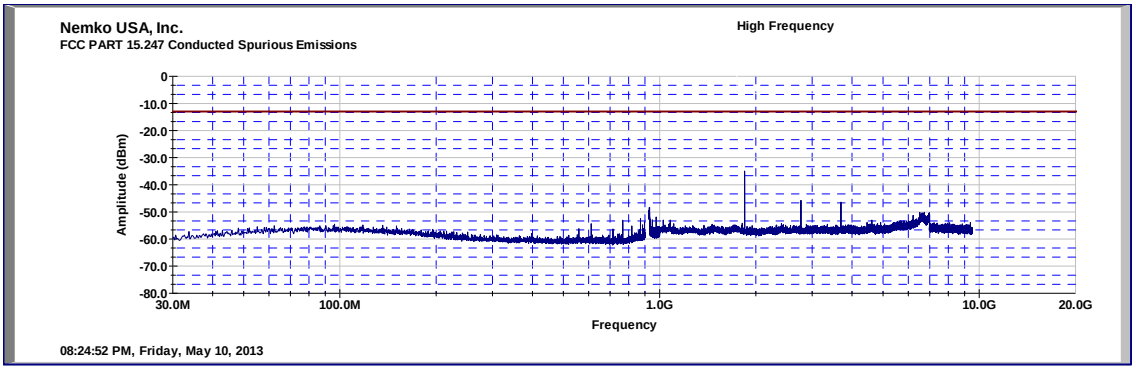
## Test Conditions:

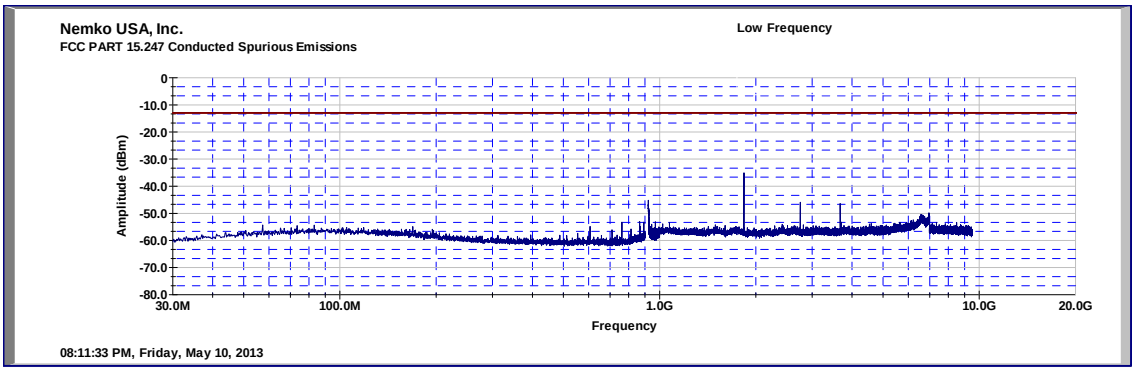
| | | | |
|---|---|---|---|
| Sample Number: | Type B | Temperature: | 23°C |
| Date: | 5/10/2013 | Humidity: | 54 % |
| Modification State: | Low /High Channels | Tester: | A. Laudani |
| | | Laboratory: | 10m Chamber |

## Test Results: EUT complies.

## Radiated Peak Output Power:

- A sma connecter “pigtail” cable was soldered into the circuit after the last RF power amplifier bypassing the on circuit antenna
- All measurements were performed using a peak detector. Max hold.
- RBW =100 kHz; VBW= 300 kHz, Limit is 20 dBc.
- A 10dB attenuator was used to protect the spectrum analyzer input



## Peak Output Power

Clause 15.247(b)(2) For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

## Test Conditions:

| | | | |
|---|---|---|---|
| Sample Number: | CB929A | Temperature: | 20°C |
| Date: | 11/6/2013 | Humidity: | 54 % |
| Modification State: | Low /High Channels | Tester: | A. Laudani |
| | | Laboratory: | 10m Chamber |

## Test Results: EUT complies.

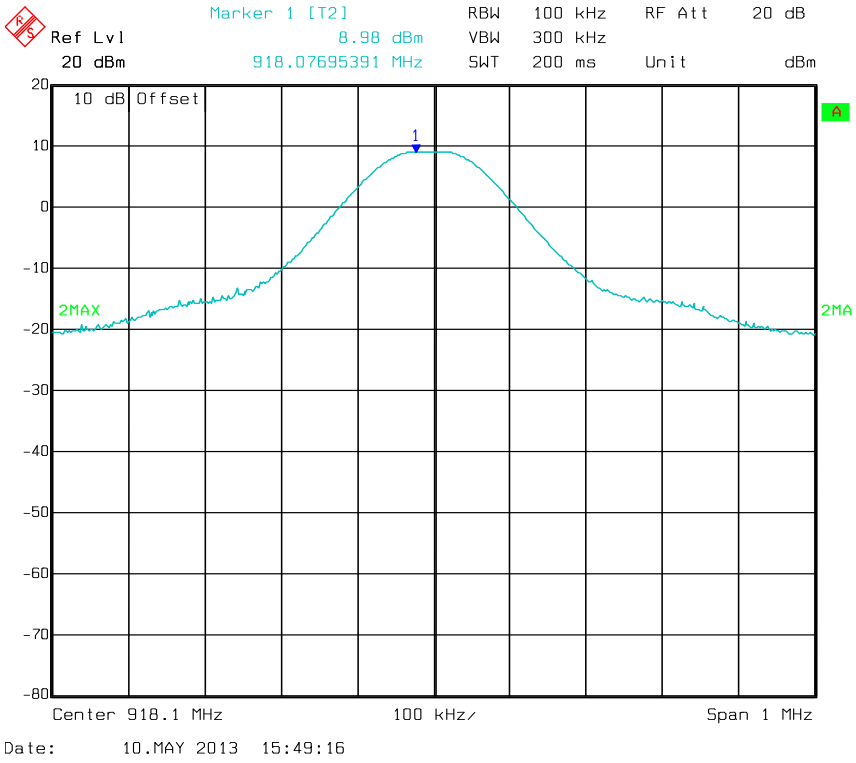
## Radiated Peak Output Power:

- A sma connecter “pigtail” cable was soldered into the circuit after the last RF power amplifier bypassing the on circuit antenna
- The power supply was varied +/- 15% of nominal during assessment, no variance of output power was observed.
- All measurements were performed using a peak detector. Max hold.
- RBW > OBW; VBW>RBW.
- A 10dB attenuator was used to protect the spectrum analyzer input

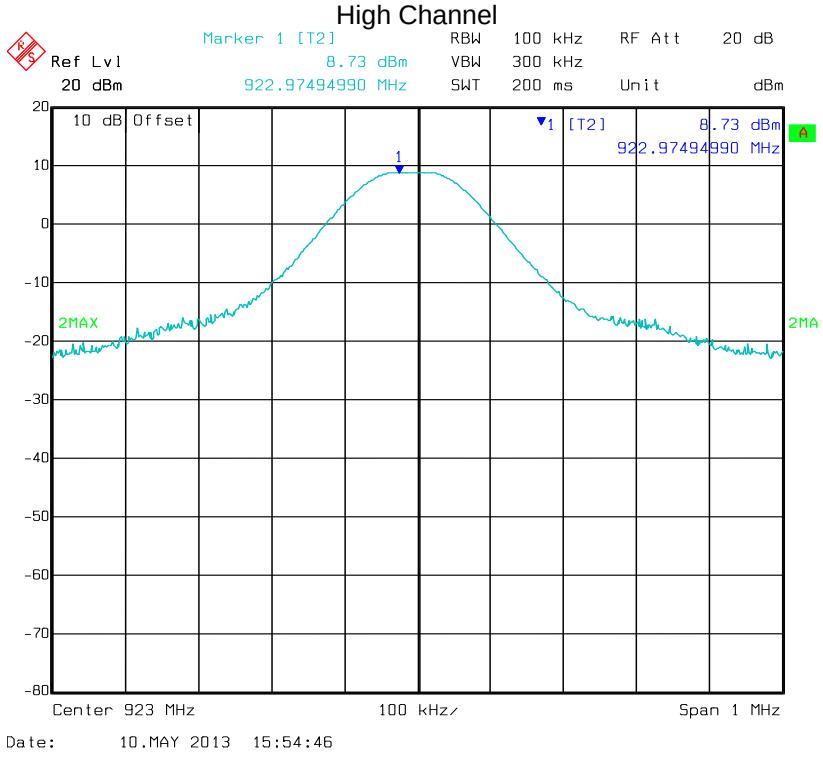
From operation description: Antenna gain: 1.282 dBi max
.

| Channel | Frequency | Peak Output Power dBm | Conducted Output Power (W) | EIRP dBm |
|---|---|---|---|---|
| Low | 918.1 MHz | 8.98 | 0.008 | 10.3 |
| High | 923.0 MHz | 8.73 | 0.007 | 10.0 |

Low Channel




High Channel



## Receiver Spurious Emissions

The following receiver spurious emission limits shall be complied with:
(a) If a radiated measurement is made, all spurious emissions shall comply with the limits of Table 1.
Table 1 - Spurious Emission Limits for Receivers

| Spurious Frequency (MHz) | Field Strength (microvolt/m at 3 meters) |
|---|---|
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960 | 500 |

## Test Conditions:

| | | | |
|---|---|---|---|
| Sample Number: | CB929A | Temperature: | 20°C |
| Date: | 11/6/2013 | Humidity: | 54 % |
| Modification State: | Low /High Channels | Tester: | A. Laudani |
| | | Laboratory: | 10m Chamber |

Test Results: Compliant

Additional Observations:

- The Spectrum was searched from 30MHz to 5000 MHz.
- EUT operated on “test receive mode”.
- No other emissions within 20 dB of the limit were detected.