



Nemko

Nemko Test Report: 1026888RUS1

Applicant: TableTop Media
12404 Park Central
Dallas, TX 75251
USA

Equipment Under Test: Ziosk
(E.U.T.)

In Accordance With: **FCC Part 15, Subpart C, 15.247**
Digital Transmission System Transmitter

Tested By: Nemko USA, Inc.
802 N. Kealy
Lewisville, Texas 75057-3136

TESTED BY: 

David Light, Senior Wireless Engineer

DATE: 29 April 2011

APPROVED BY: 

Tom Tidwell, Director Nemko Direct for
Telecom

DATE: 26 May 2011

Number of Pages: 55

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Section 1. Summary of Test Results

Manufacturer: TableTop Media

Model No.: Ziosk

Serial No.: None

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, Paragraph 15.247 for Digital Transmission Systems. Radiated tests were conducted in accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

<input checked="" type="checkbox"/>	New Submission	<input type="checkbox"/>	Production Unit
<input type="checkbox"/>	Class II Permissive Change	<input checked="" type="checkbox"/>	Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".



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EQUIPMENT: Ziosk

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 1026888RUS1

Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
Powerline Conducted Emissions	15.207(a)	NA
Minimum 6 dB Bandwidth	15.247(a)(2)	Complies
Maximum Peak Power Output	15.247(b)(3)	Complies
Spurious Emissions (Antenna Conducted)	15.247(d)	Complies
Spurious Emissions (Restricted Bands)	15.247(d)/15.209(a)	Complies
Peak Power Spectral Density	15.247(e)	Complies

Footnotes:

The device is battery powered.

Section 2. Equipment Under Test (E.U.T.)**General Equipment Information**

Frequency Band (MHz): 902-928 2400-2483.5 5725-5850

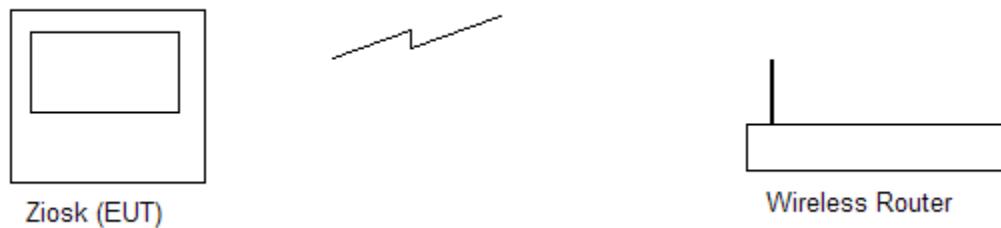
Operating Frequency of Test Sample: 2412 to 2462 MHz

Input Power: 7.4 Vdc lithium battery

User Frequency Adjustment: Software controlled

Description of EUT

The Ziosk is a wireless, battery operated touch screen device with a 7" LCD display, used for pay-at-the-table applications in casual dining restaurants. The device can display menu items, specials, entertainment and local area information; it can also process credit card payments and print receipts.

System Diagram

Nemko USA, Inc.

EQUIPMENT: Ziosk

FCC PART 15, SUBPART C

Digital Transmission Systems

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Section 3. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 15.247(a)(2)
TESTED BY: David Light	DATE: 28 April 2011

Test Results: Complies.

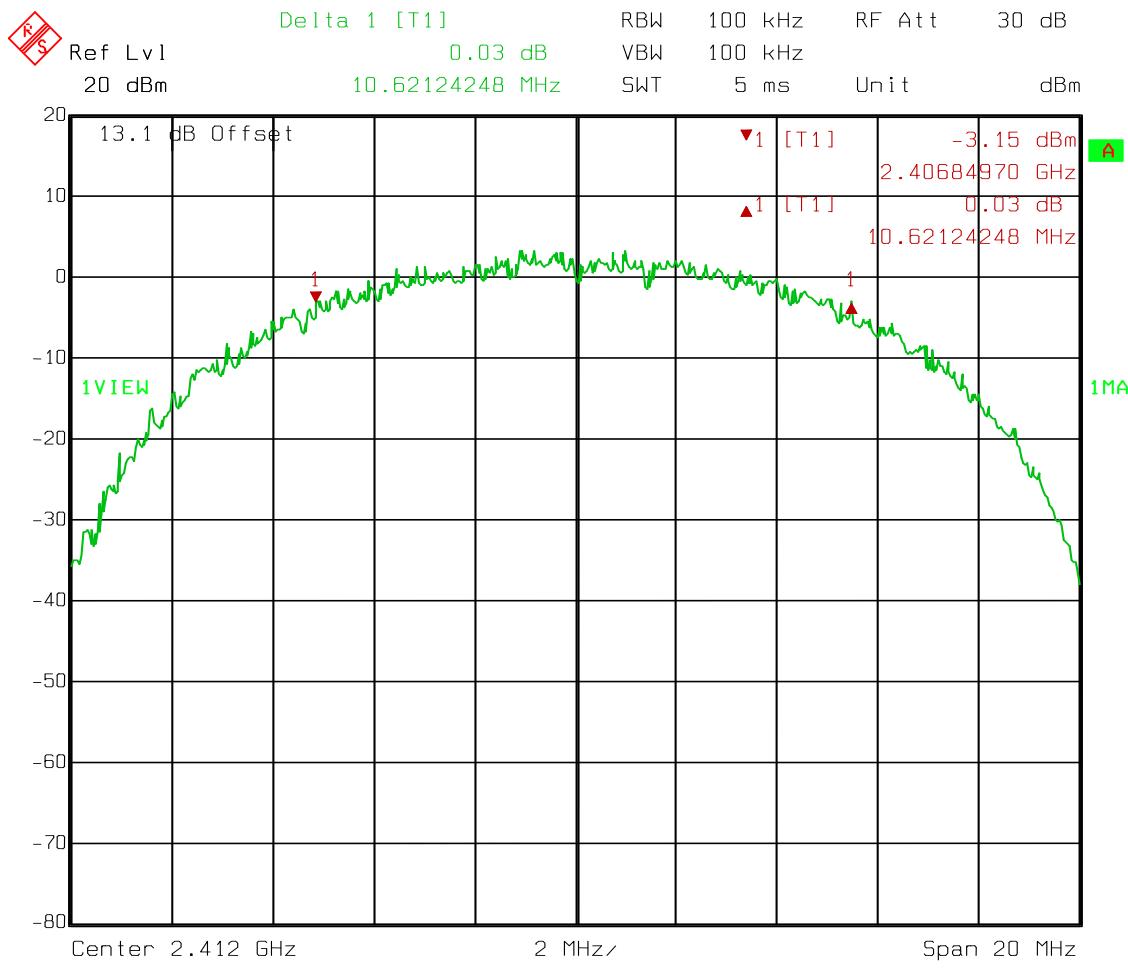
Measurement Data: See 6 dB BW plot
Measured 6 dB bandwidth: 802.11b 10.9 MHz
802.11g 16.4 MHz
802.11n 17.6 MHz

Test Conditions: 48 %RH
23 °C

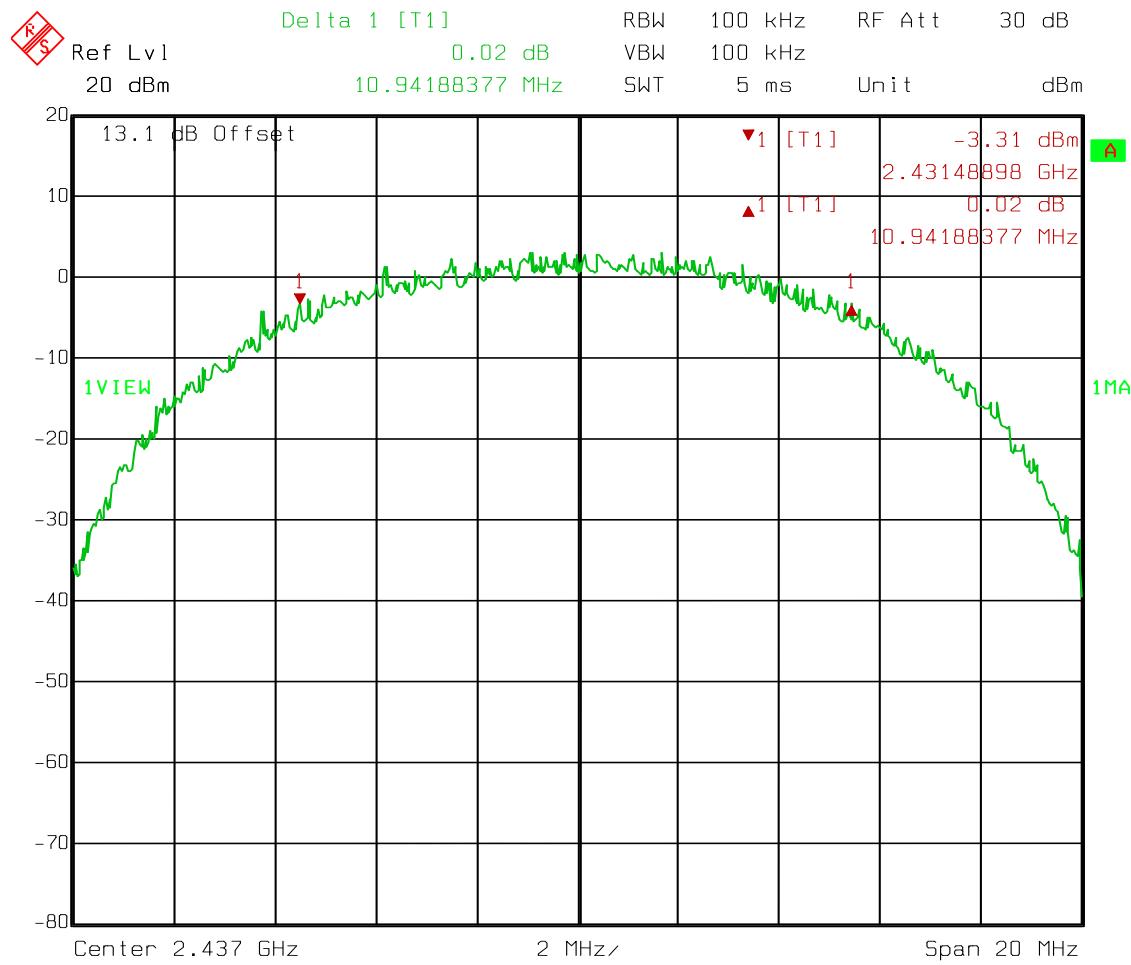
Measurement Uncertainty: $+-1 \times 10^{-7}$ ppm

Test Equipment Used: 1767-1482-1472

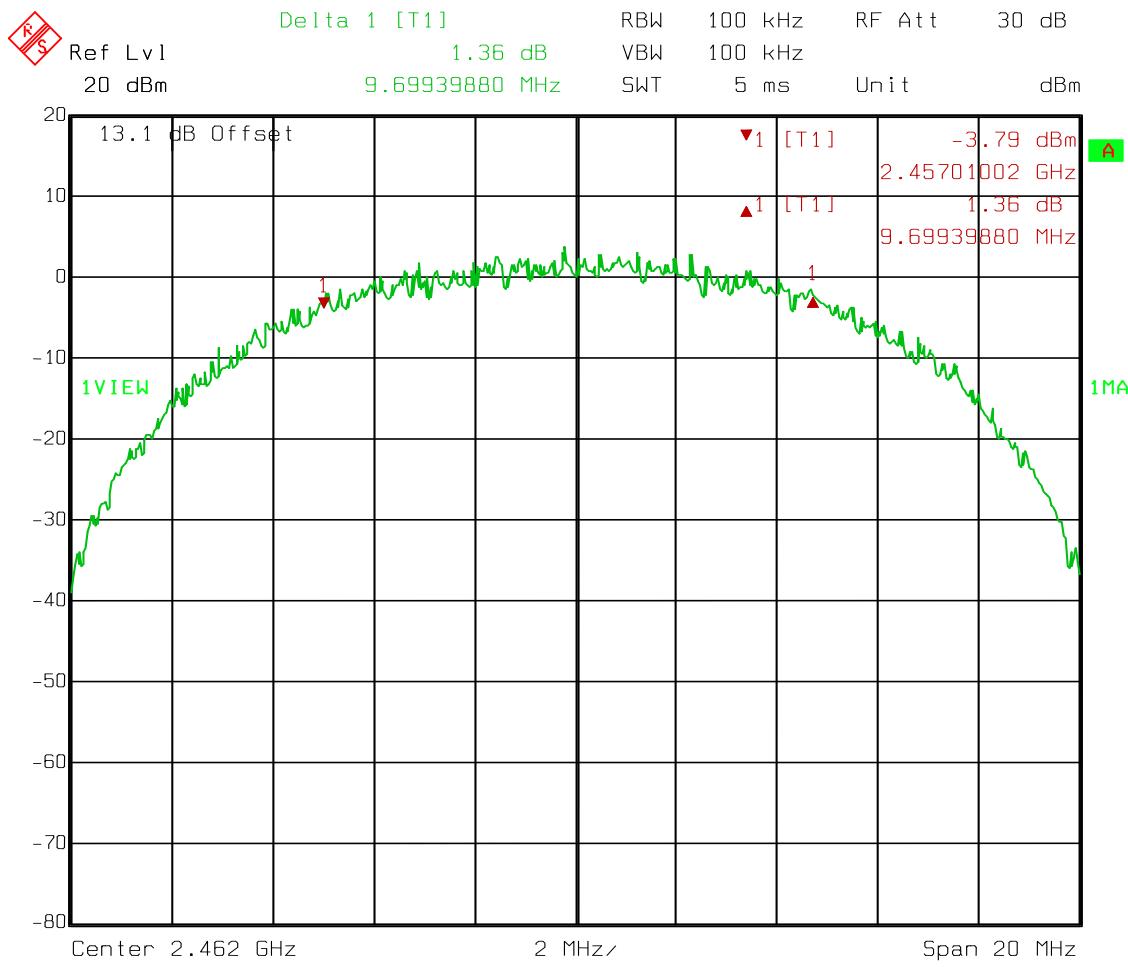
Test Data – Occupied Bandwidth- 802.11b



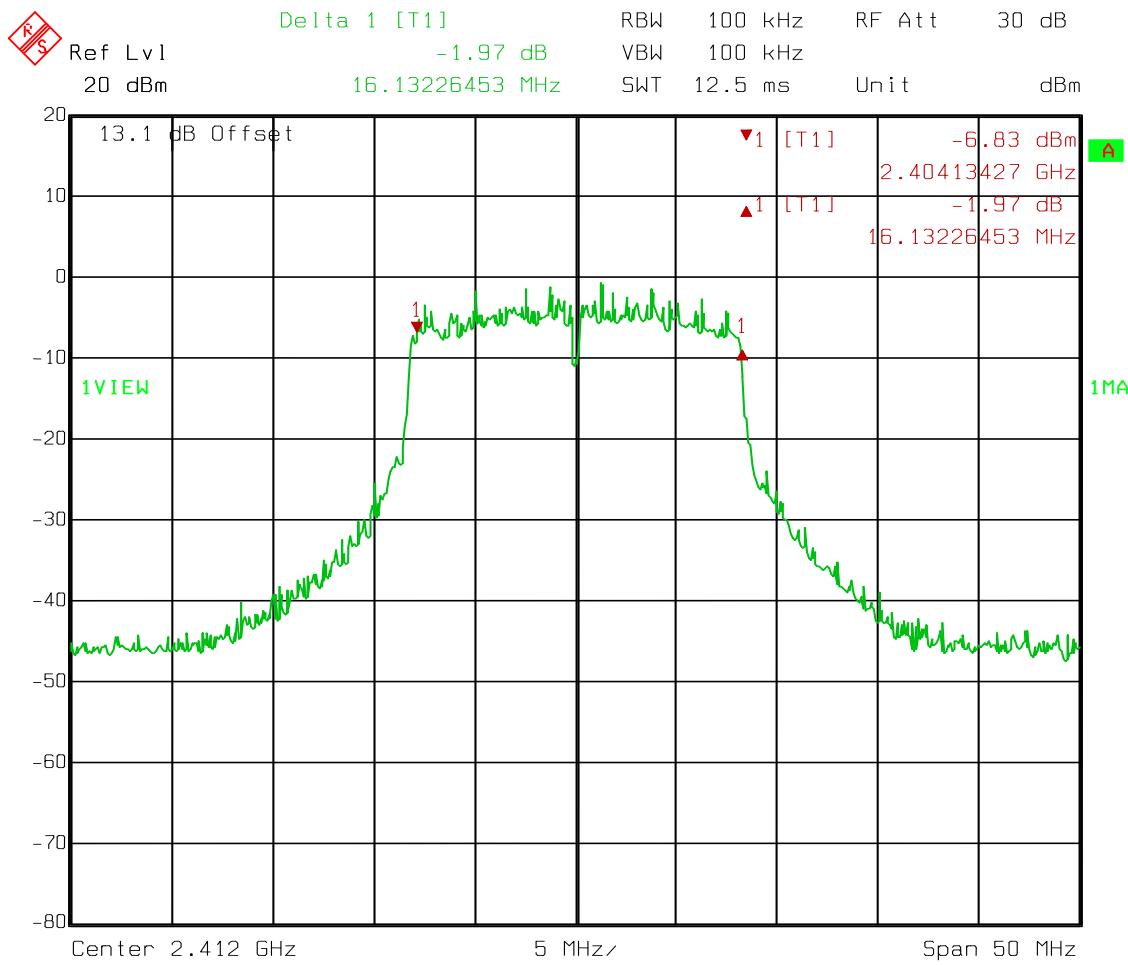
Date: 28.APR.2011 07:54:56

Test Data – Occupied Bandwidth – 802.11b

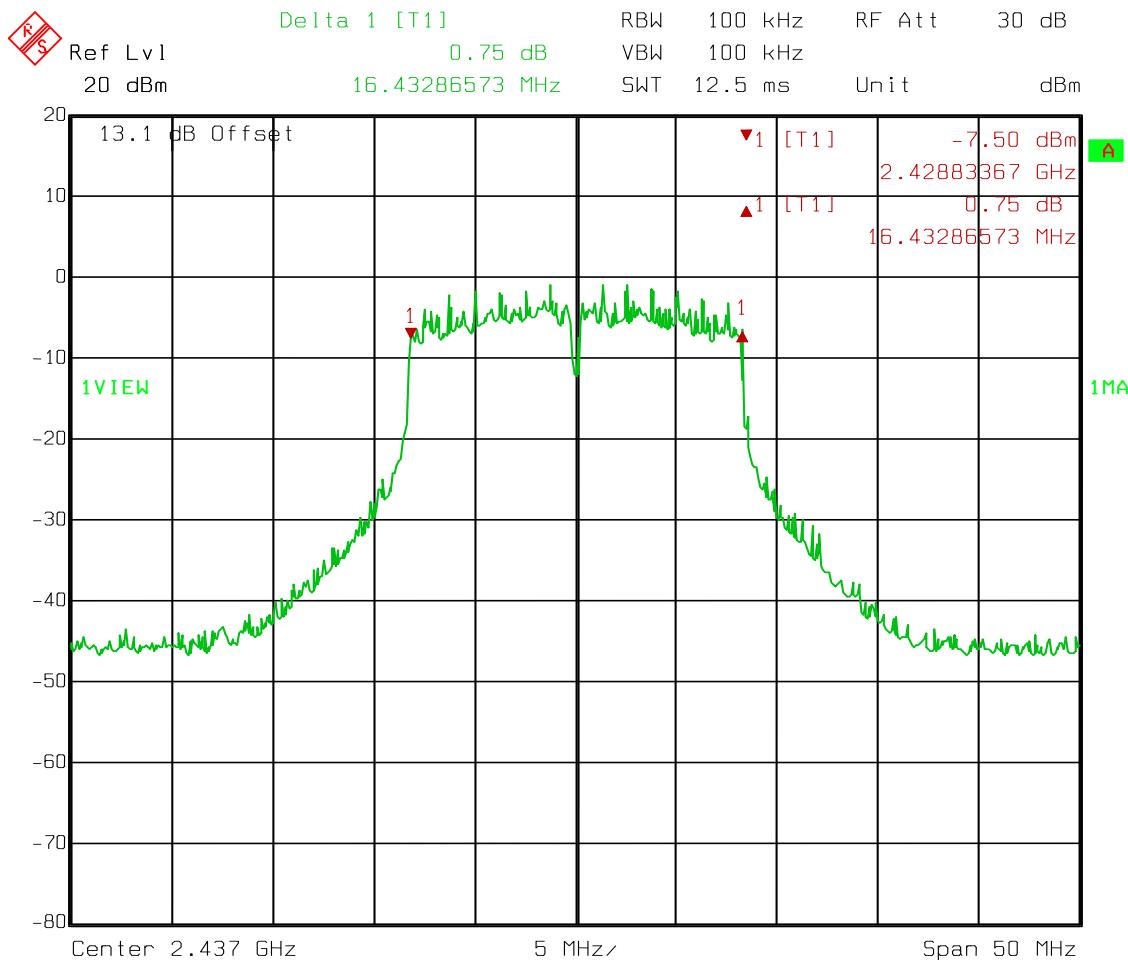
Date: 28.APR.2011 09:04:48

Test Data – Occupied Bandwidth – 802.11b

Test Data – Occupied Bandwidth – 802.11g

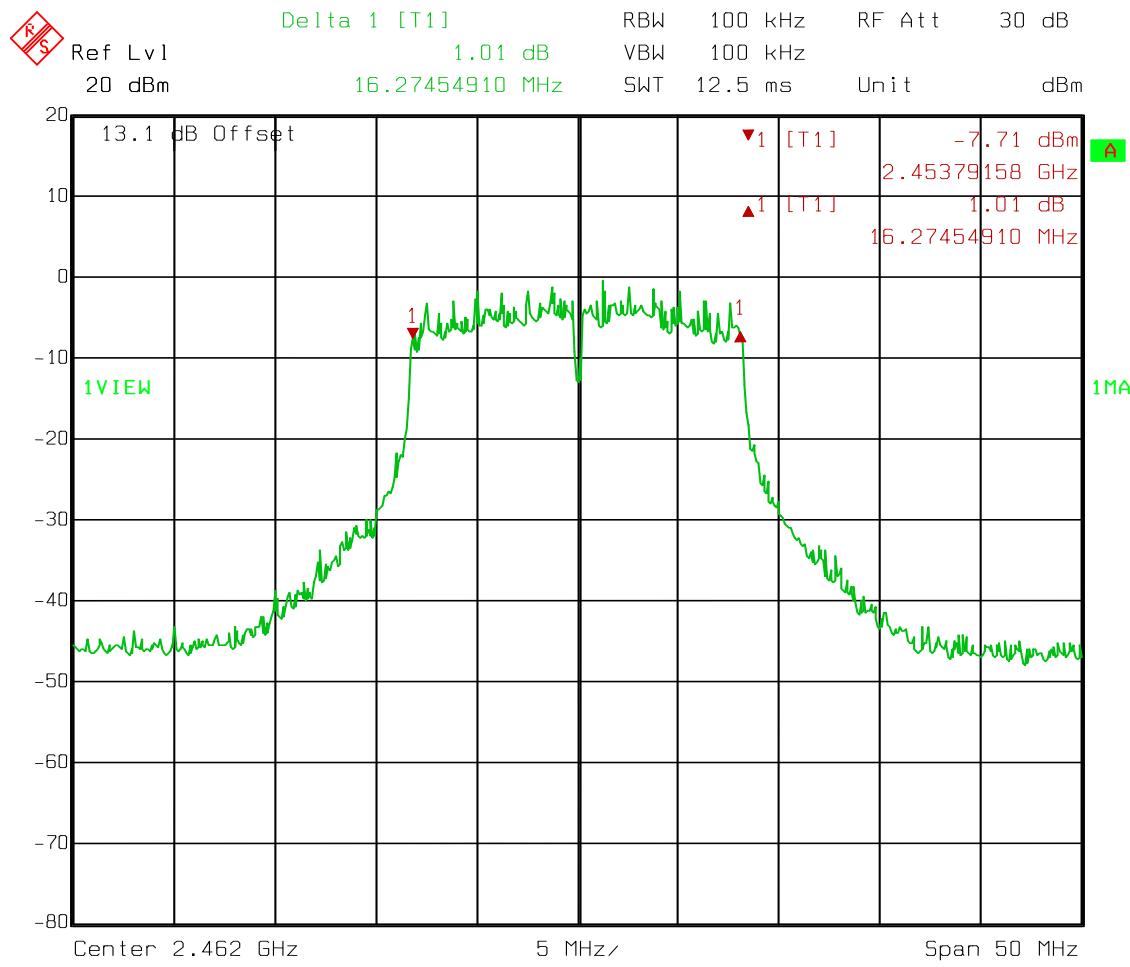


Date: 28.APR.2011 12:14:48

Test Data – Occupied Bandwidth – 802.11g

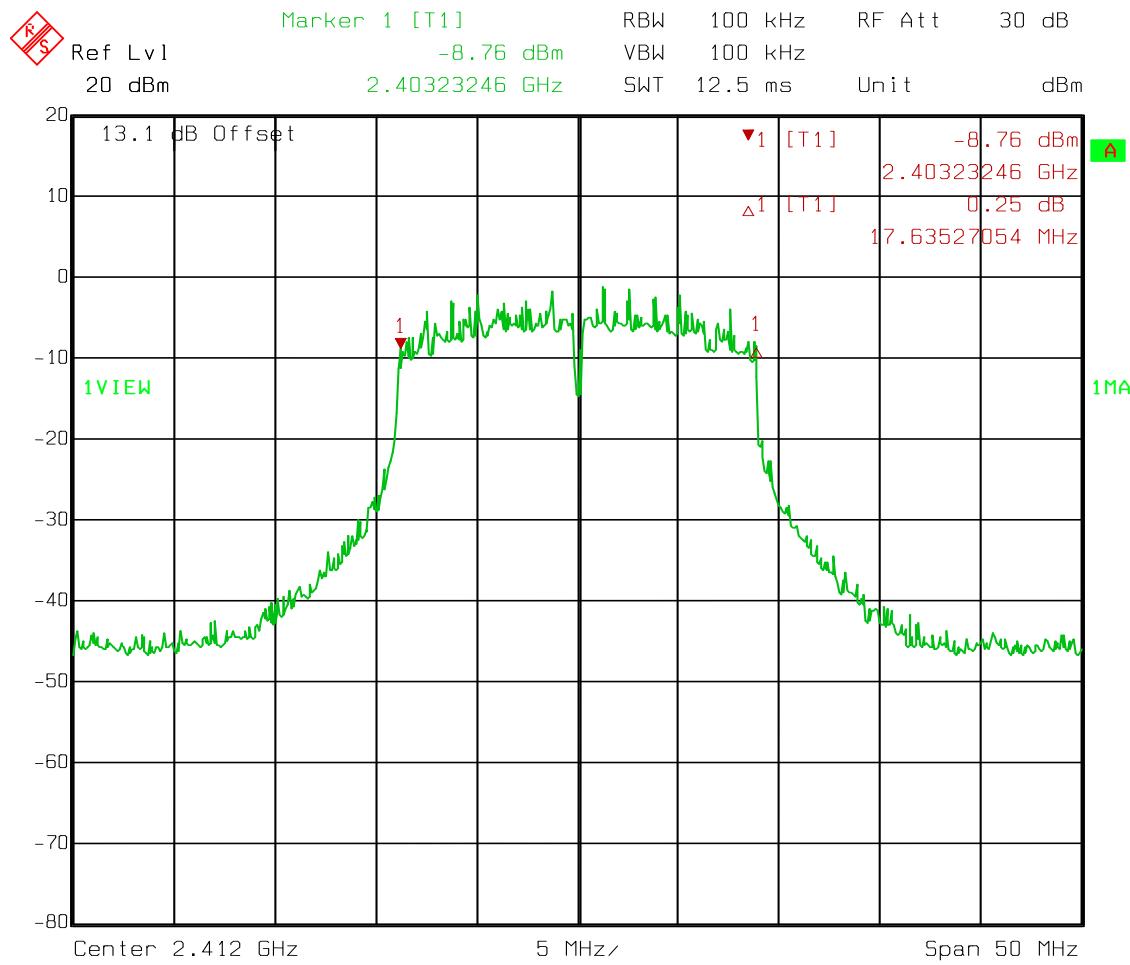
Date: 28.APR.2011 13:09:24

Test Data – Occupied Bandwidth – 802.11g



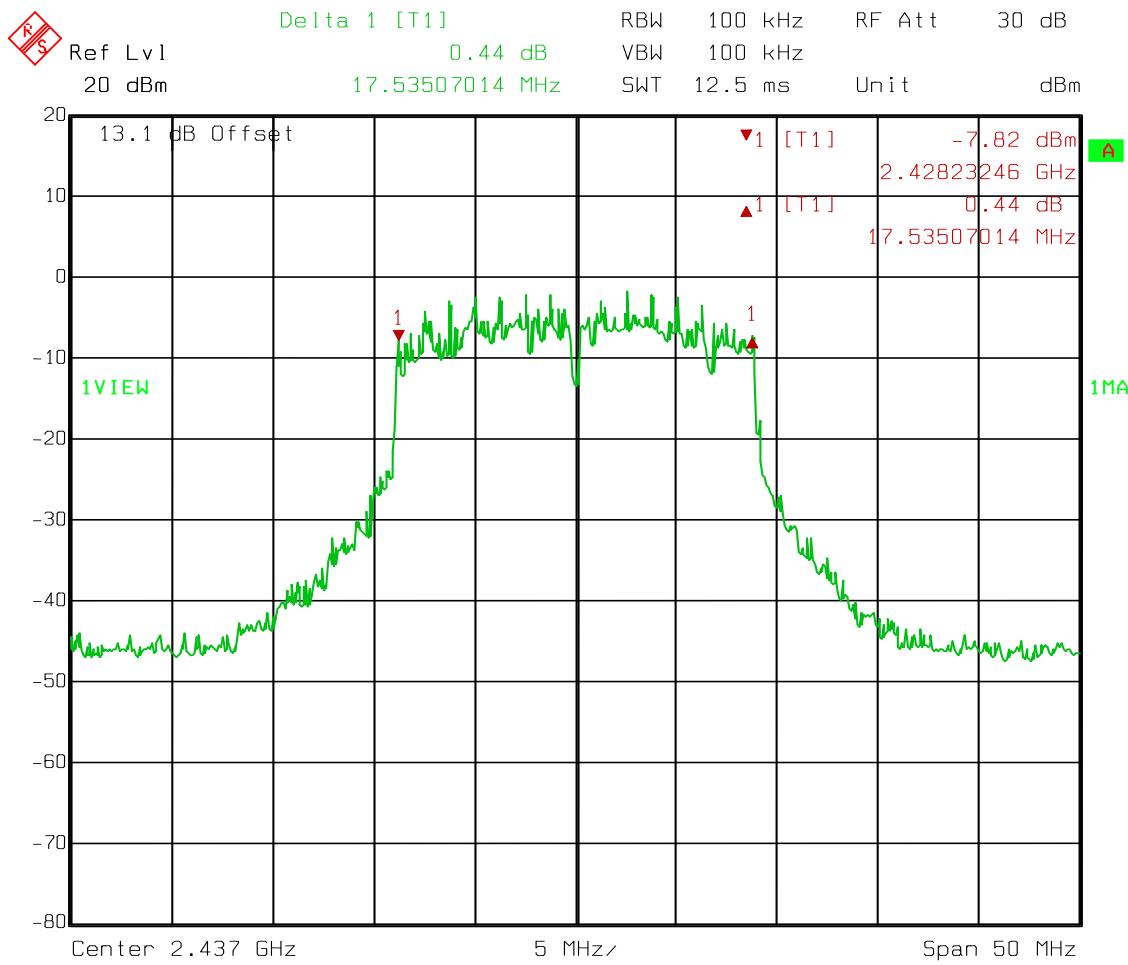
Date: 28.APR.2011 14:02:52

Test Data – Occupied Bandwidth – 802.11n

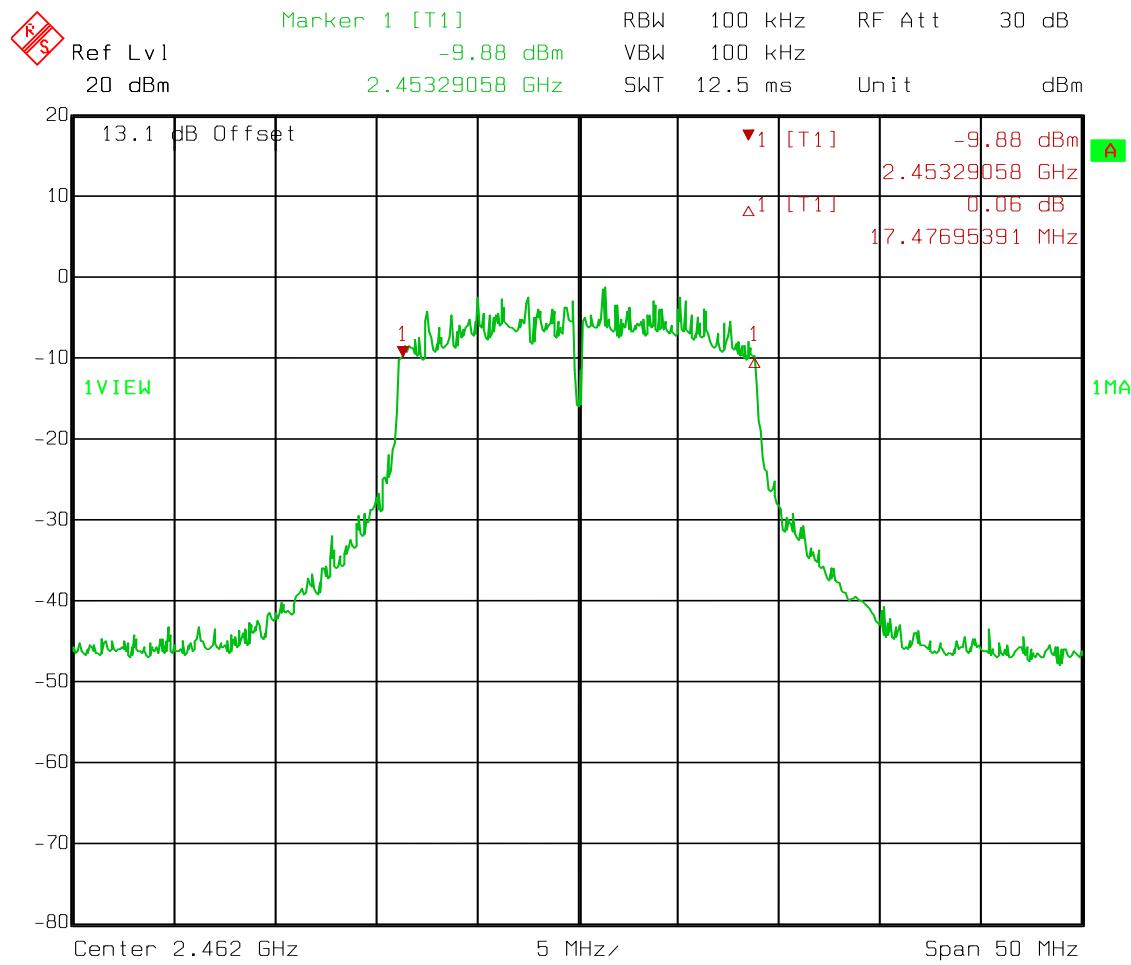


Date: 29.APR.2011 07:05:14

Test Data – Occupied Bandwidth – 802.11n



Date: 29.APR.2011 07:57:32

Test Data – Occupied Bandwidth – 802.11n

Date: 29.APR.2011 08:50:05

Section 4. Maximum Peak Output Power

NAME OF TEST: Maximum Peak Output power	PARA. NO.: 15.247(b)(3)
TESTED BY: David Light	DATE: 28 April 2011

Test Results: Complies.**Measurement Data:** Refer to attached data**Test Conditions:** 48 %RH
23 °C**Measurement Uncertainty:** +/-1.7 dB**Test Equipment Used:** 1767-1082-1472

- This device was tested at +/- 15% input power per 15.31(e), with no variation in output power.
- For battery powered equipment, the device was tested with a fresh battery per 15.31(e).
- The device was tested on three channels per 15.31(l).
- This test was performed radiated.

Test Data – Peak Power

Frequency (MHz)	Mode	Power (dBm)	Power (mW)	
2412	802.11b	18.4	69.2	
2437	802.11b	18.4	69.2	
2462	802.11b	18.3	67.6	
2412	802.11g	15.6	36.3	
2437	802.11g	15.1	32.4	
2462	802.11g	15.5	35.5	
2412	802.11n	14.6	28.8	
2437	802.11n	15.1	32.4	
2462	802.11n	15.0	31.6	

Antenna Type; PCB imbedded

Antenna Gain: 5.3 dBi max

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EQUIPMENT: Ziosk

FCC PART 15, SUBPART C

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Section 5 Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions at Antenna Terminals PARA. NO.: 15.247 (d)

TESTED BY: David Light

DATE: 28 April 2011

Test Results: Complies.

Measurement Data: See attached plots.

Test Conditions: 48 %RH
 23 °C

Measurement Uncertainty: +/-1.7 dB

Test Equipment Used: 1767-1082-1472

Nemko USA, Inc.

FCC PART 15, SUBPART C

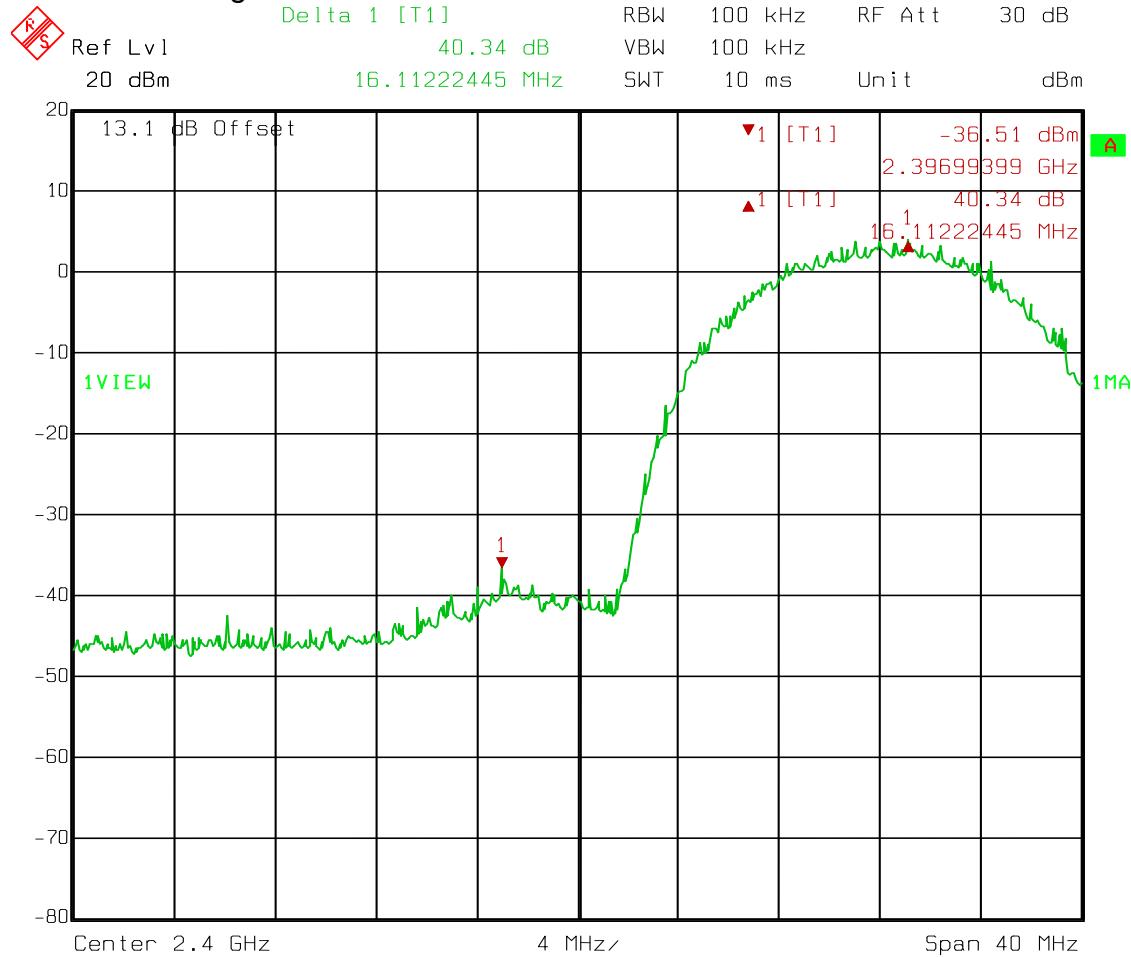
Digital Transmission Systems

Test Report No.: 1026888RUS1

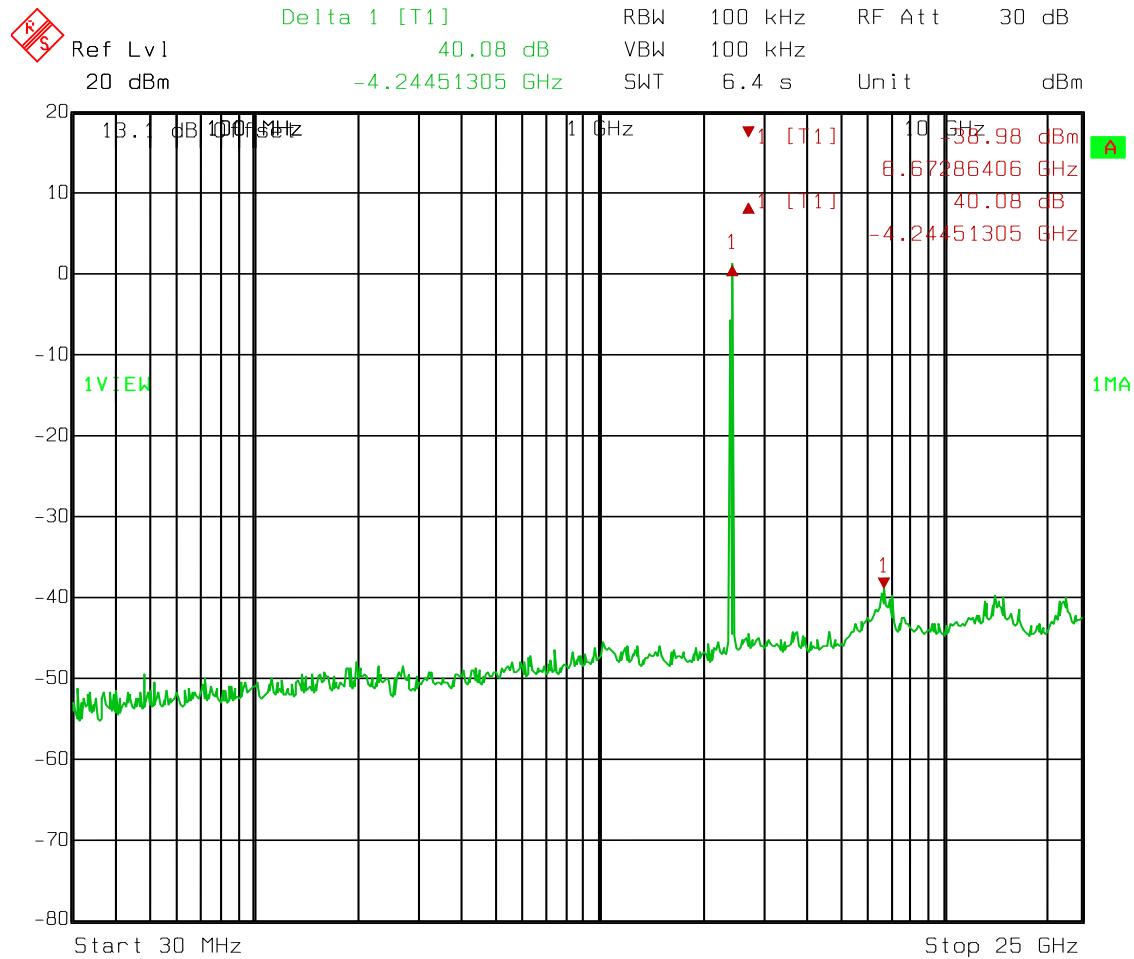
EQUIPMENT: Ziosk

Test Data – Spurious Emissions at Antenna Terminals – 802.11b

Lower Band Edge



Date: 28.APR.2011 07:57:11

Test Data – Spurious Emissions at Antenna Terminals – 802.11b**Low channel**

Date: 28.APR.2011 08:00:34

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FCC PART 15, SUBPART C

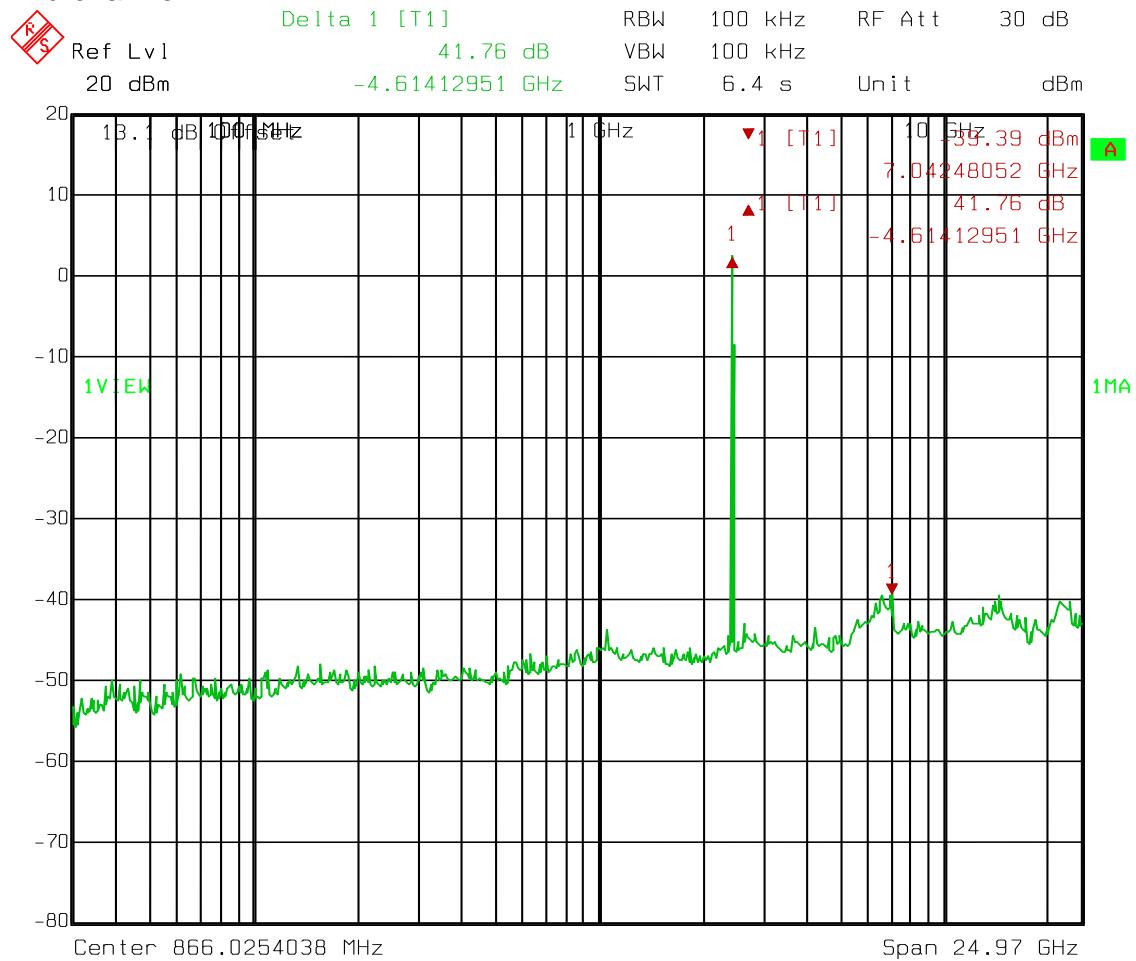
Digital Transmission Systems

Test Report No.: 1026888RUS1

EQUIPMENT: Ziosk

Test Data – Spurious Emissions at Antenna Terminals – 802.11b

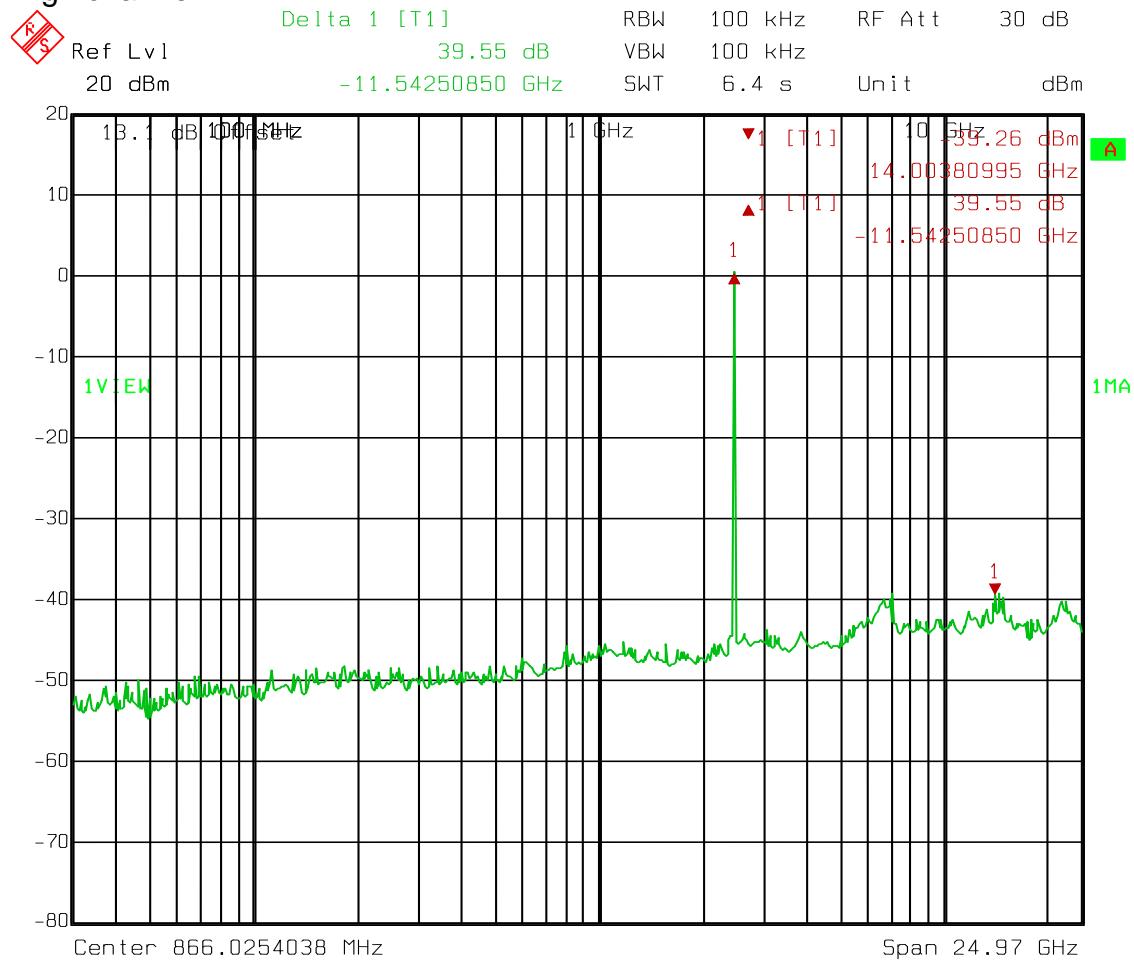
Mid channel



Date: 28.APR.2011 09:08:04

Test Data – Spurious Emissions at Antenna Terminals – 802.11b

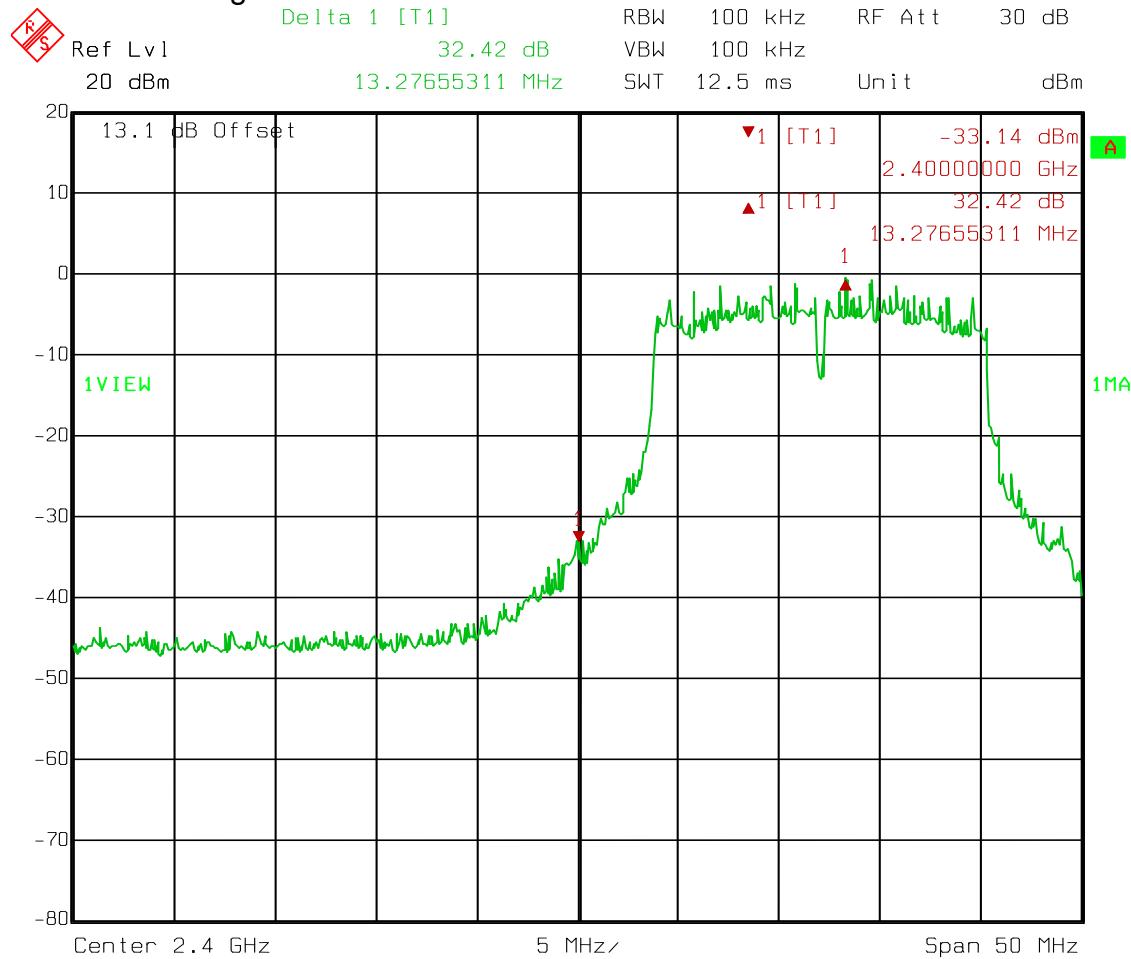
High channel



Date: 28.APR.2011 11:37:26

Test Data – Spurious Emissions at Antenna Terminals – 802.11g

Lower Band Edge



Date: 28.APR.2011 12:15:35

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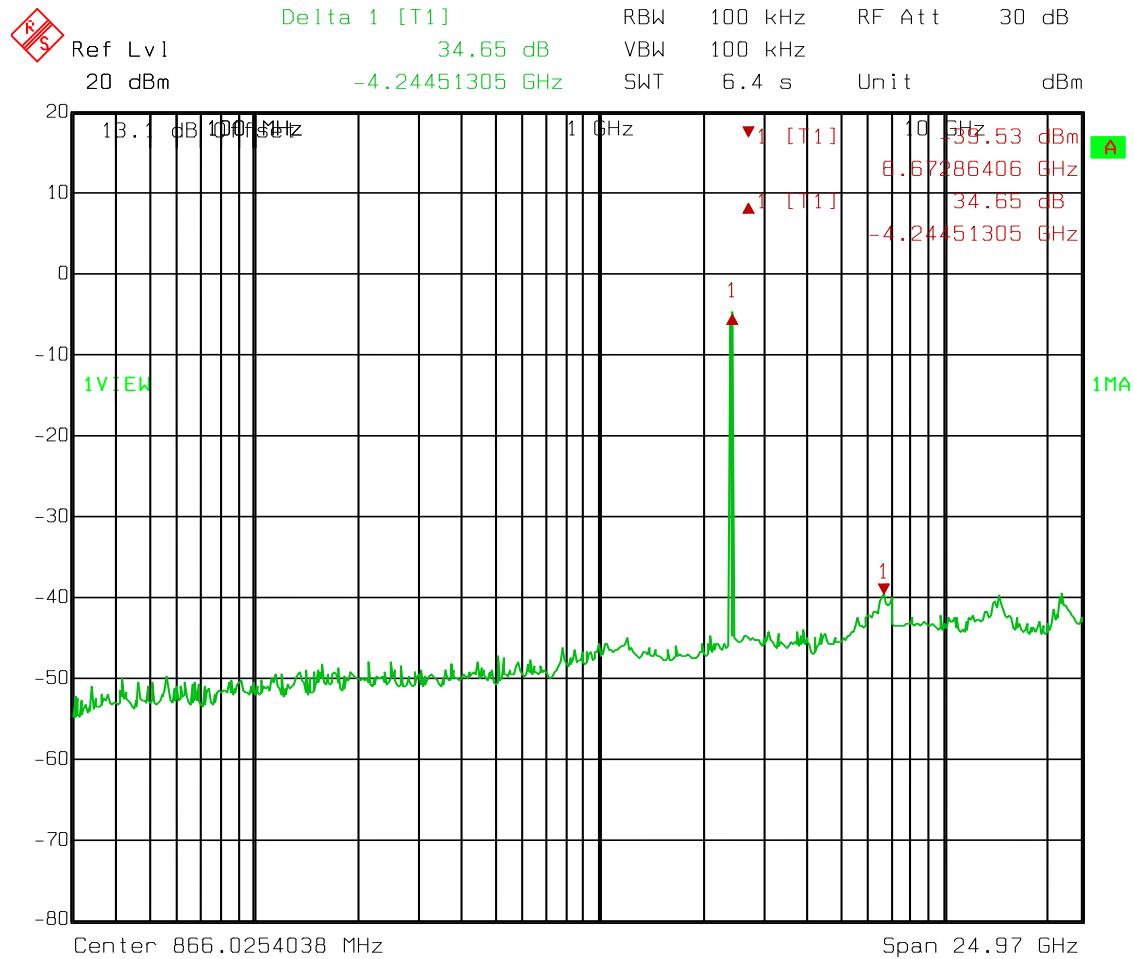
Digital Transmission Systems

Test Report No.: 1026888RUS1

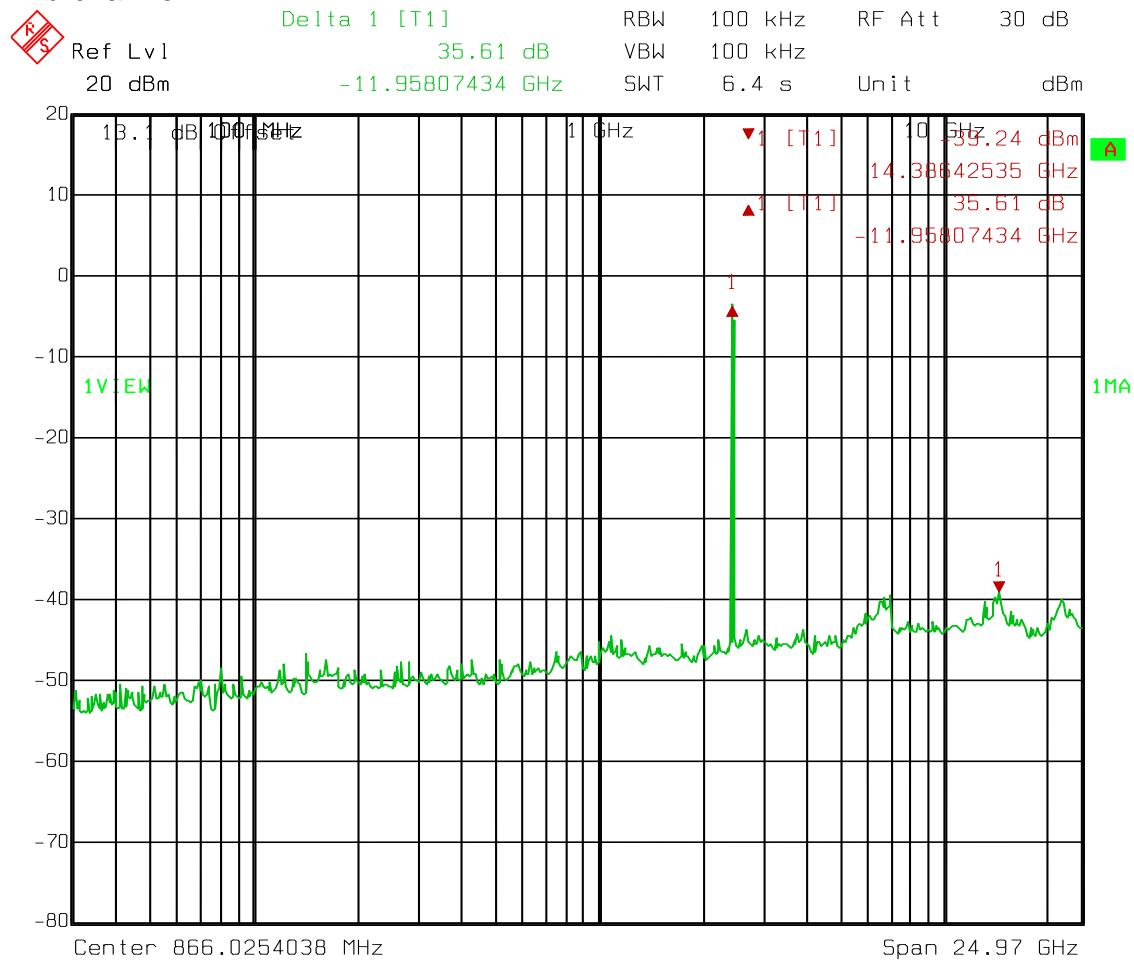
EQUIPMENT: Ziosk

Test Data – Spurious Emissions at Antenna Terminals – 802.11g

Low channel



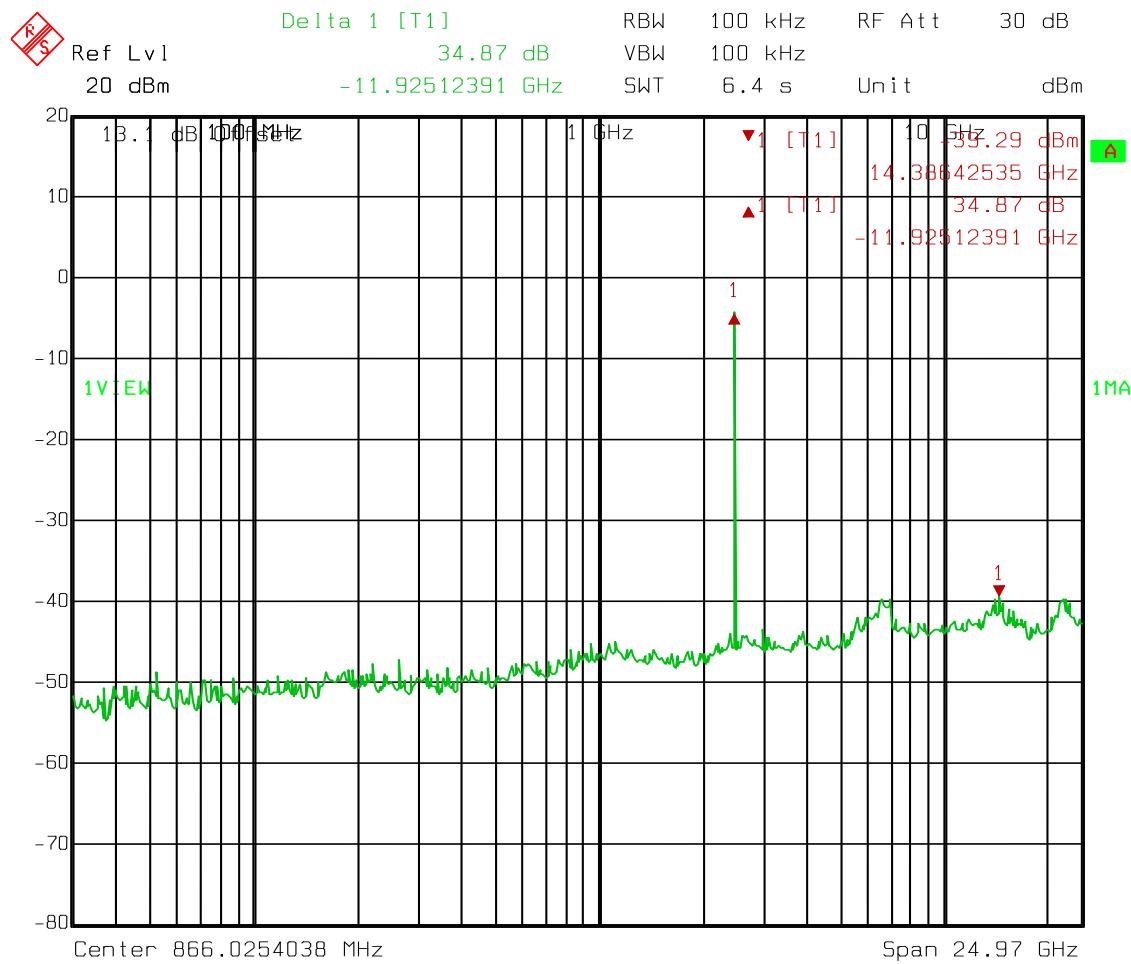
Date: 28.APR.2011 12:18:00

Test Data – Spurious Emissions at Antenna Terminals – 802.11g**Mid channel**

Date: 28.APR.2011 13:11:39

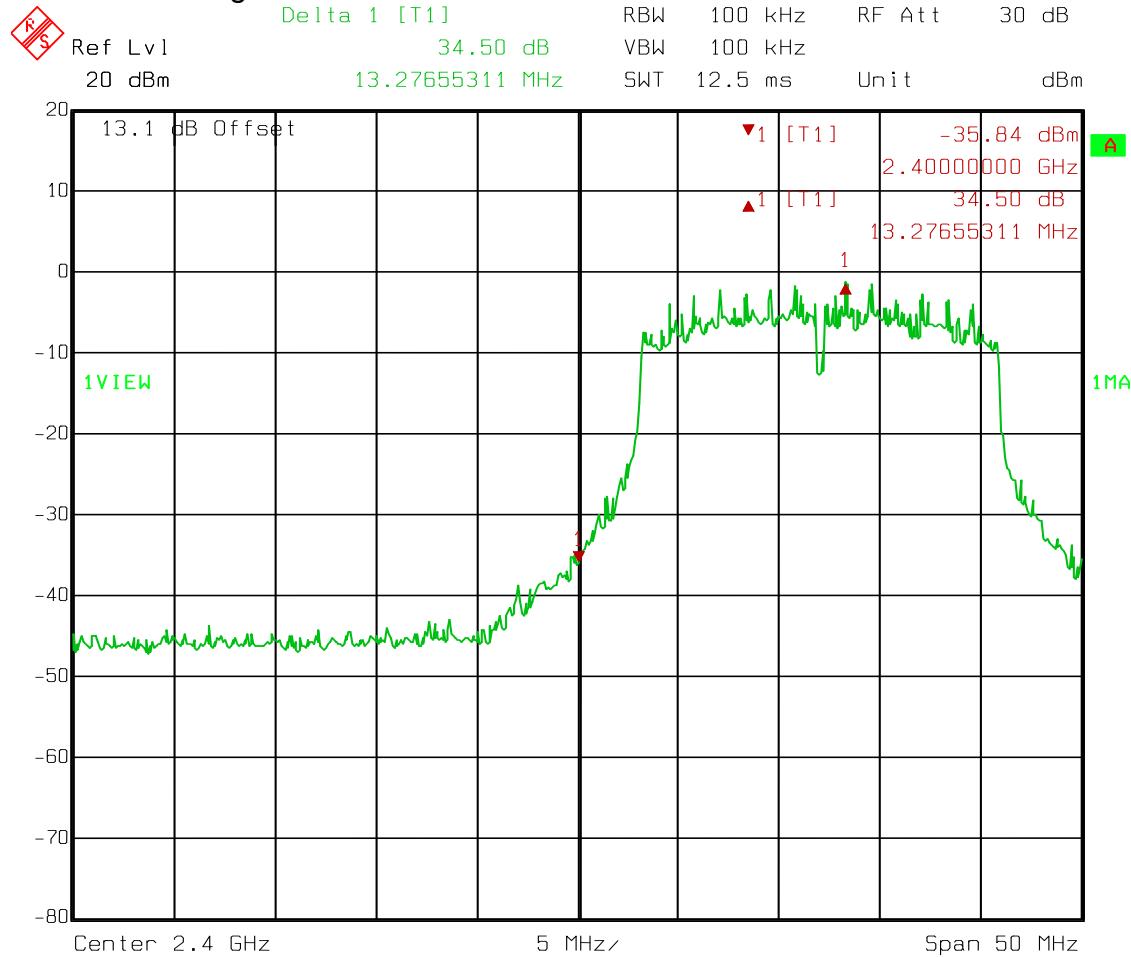
Test Data – Spurious Emissions at Antenna Terminals – 802.11g

High channel



Test Data – Spurious Emissions at Antenna Terminals – 802.11n

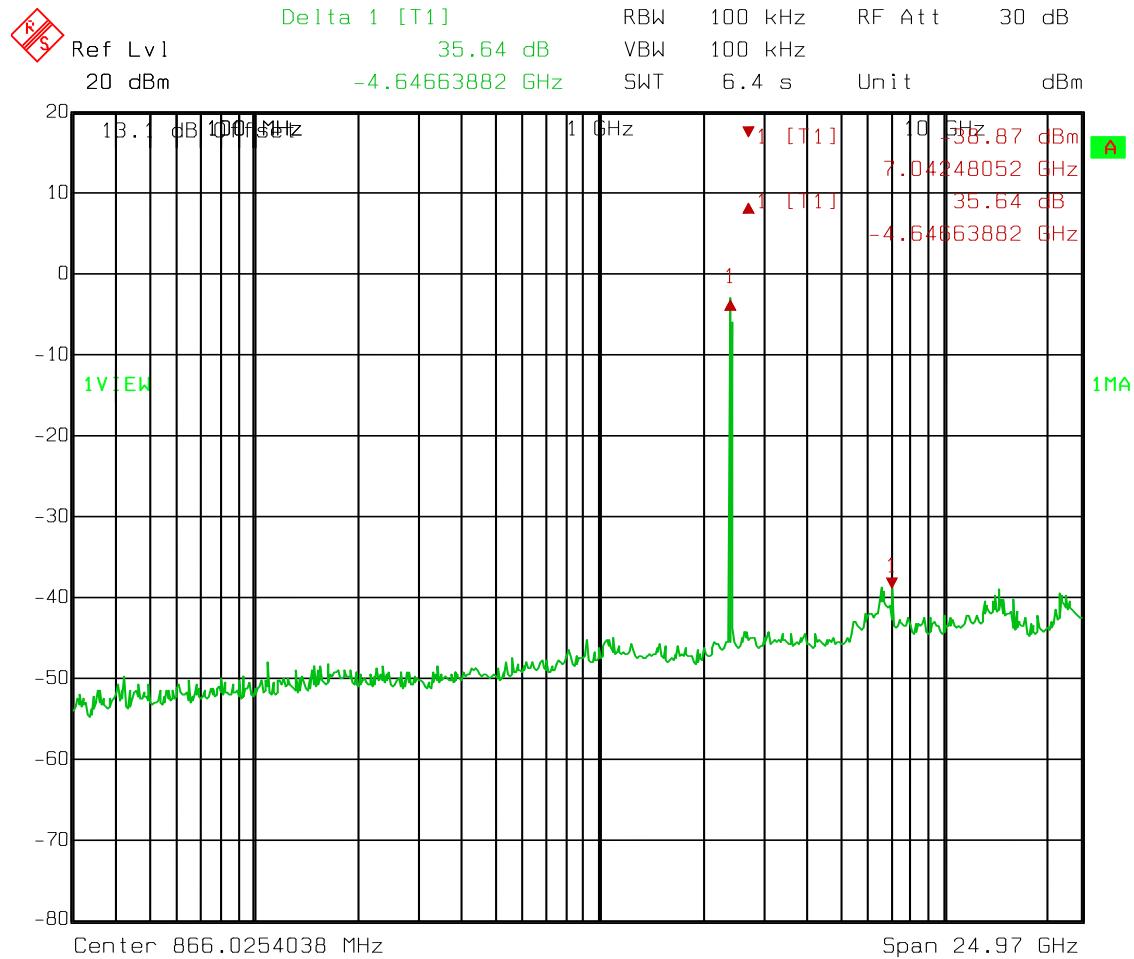
Lower Band Edge



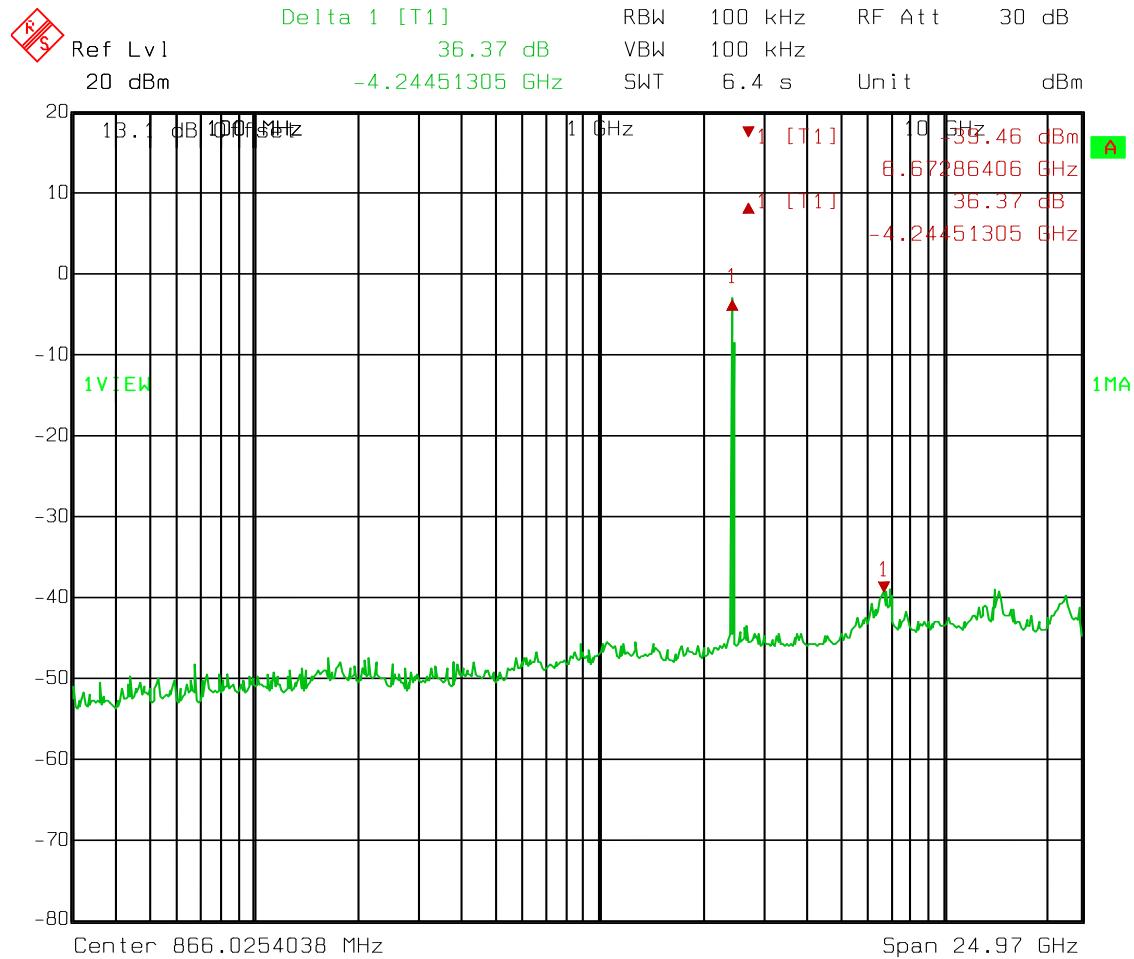
Date: 29.APR.2011 07:06:07

Test Data – Spurious Emissions at Antenna Terminals – 802.11n

Low channel



Date: 29.APR.2011 07:08:09

Test Data – Spurious Emissions at Antenna Terminals – 802.11n**Mid channel**

Date: 29.APR.2011 07:59:47

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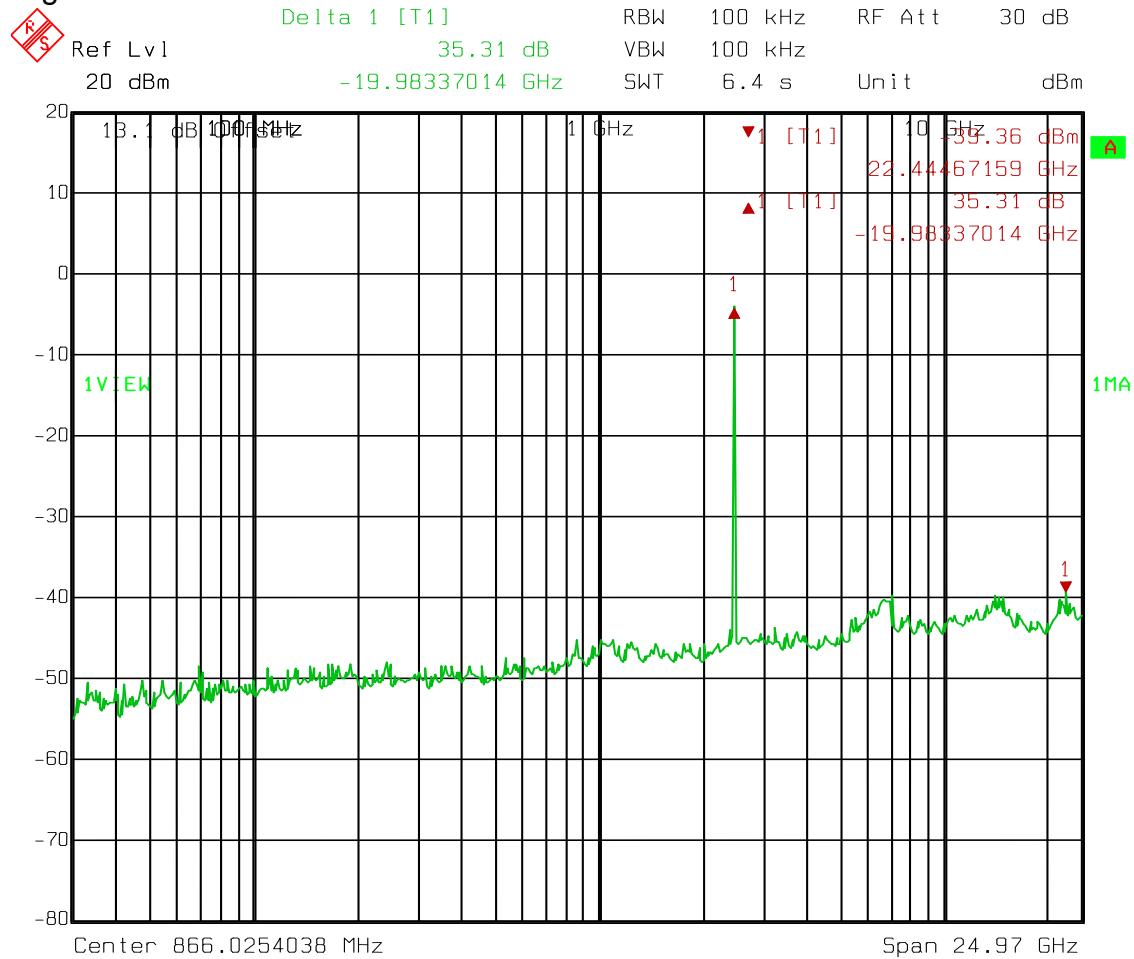
Digital Transmission Systems

Test Report No.: 1026888RUS1

EQUIPMENT: Ziosk

Test Data – Spurious Emissions at Antenna Terminals – 802.11n

High Channel



Date: 29.APR.2011 08:52:16

Section 6. Radiated Emissions

NAME OF TEST: Radiated Emissions	PARA. NO.: 15.247 (d)
TESTED BY: David Light	DATE: 28 April 2011

Test Results: Complies.**Measurement Data:** See attached table.**Test Conditions:** 48 %RH
23 °C**Measurement Uncertainty:** +/-1.7 dB**Test Equipment Used:** 1767-993-1480-1025-1016-1484-1485**Notes:**

- For handheld devices, the EUT was tested on three orthogonal axis'
- The device was tested from 30 MHz to the tenth harmonic of the highest fundamental frequency per 15.33
- The device was tested on three channels per 15.31(l).
- No emissions were detected within 20 dB of the specification limit therefore none are reported per 15.31(o). Band edge data is presented below.

RBW=VBW=100 kHz below 1000 MHz

RBW=VBW=1 MHz above 1000 MHz (Peak)

RBW= 1 MHz VBW=10Hz (Average)

Radiated Emissions

All readings are peak unless otherwise indicated.

If a peak measurement met the average limit, then an average measurement was not performed.

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EQUIPMENT: Ziosk

FCC PART 15, SUBPART C

Digital Transmission Systems

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Section 7. Peak Power Spectral Density

NAME OF TEST: Peak Power Spectral Density	PARA. NO.: 15.247(e)
TESTED BY: David Light	DATE: 28 April 2011

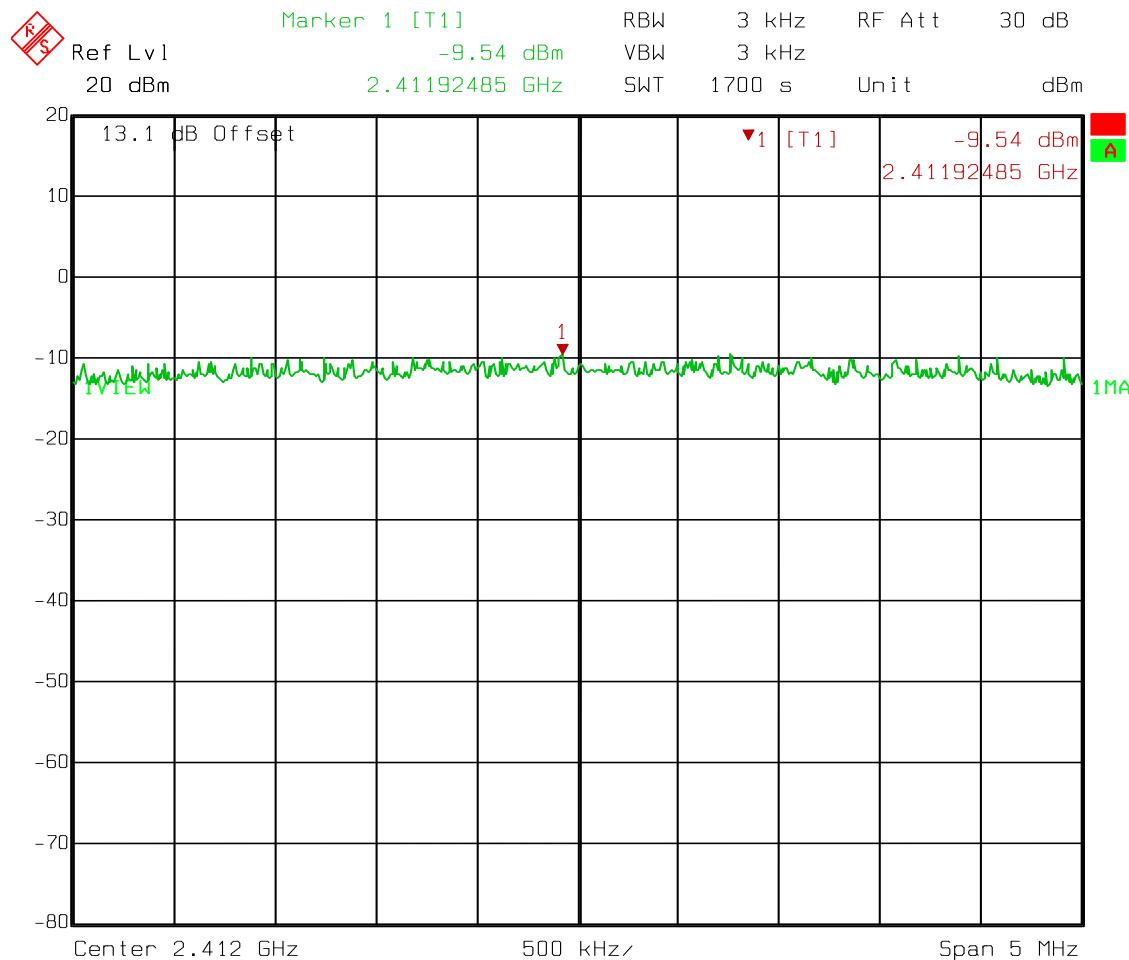
Test Results: Complies.

Measurement Data: See attached data..

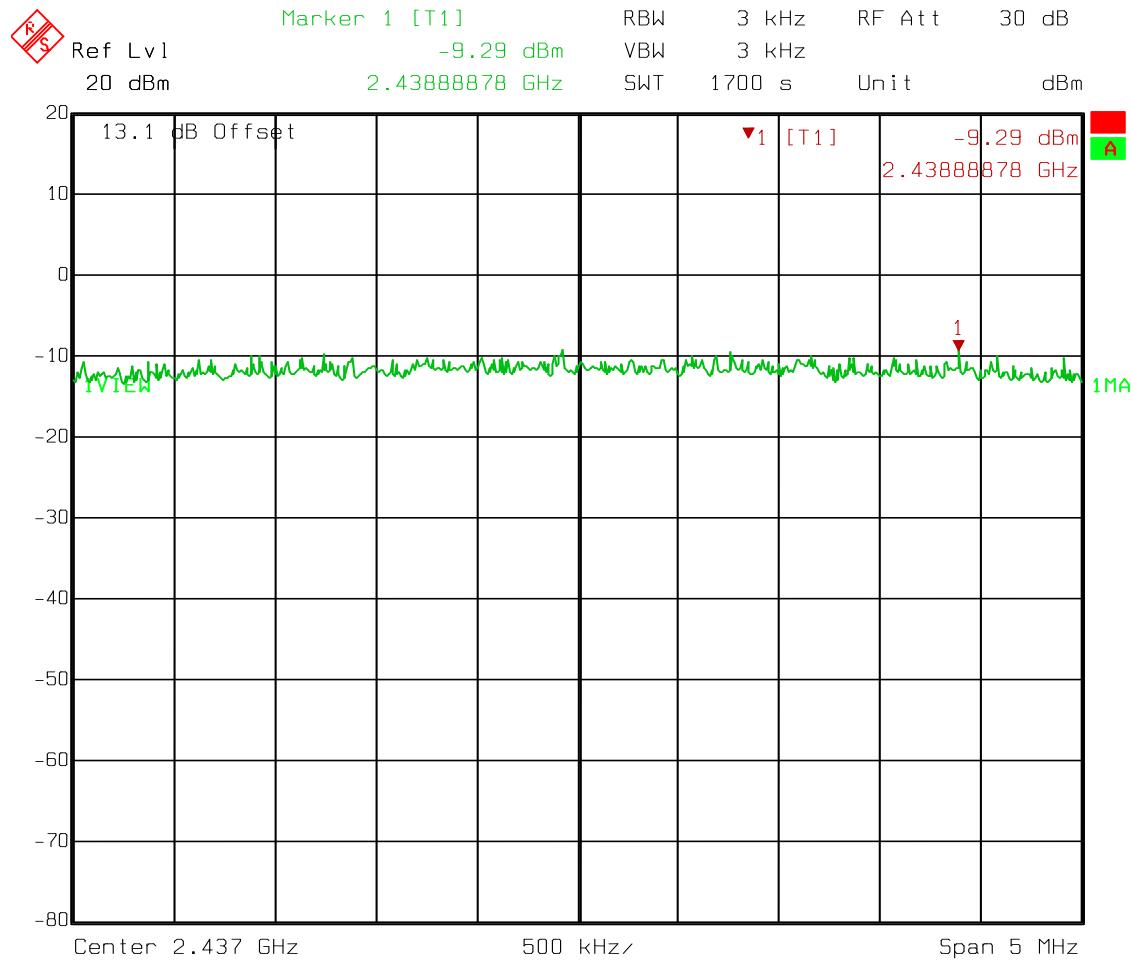
Test Conditions: 48 %RH
23 °C

Measurement Uncertainty: +/-1.7 dB

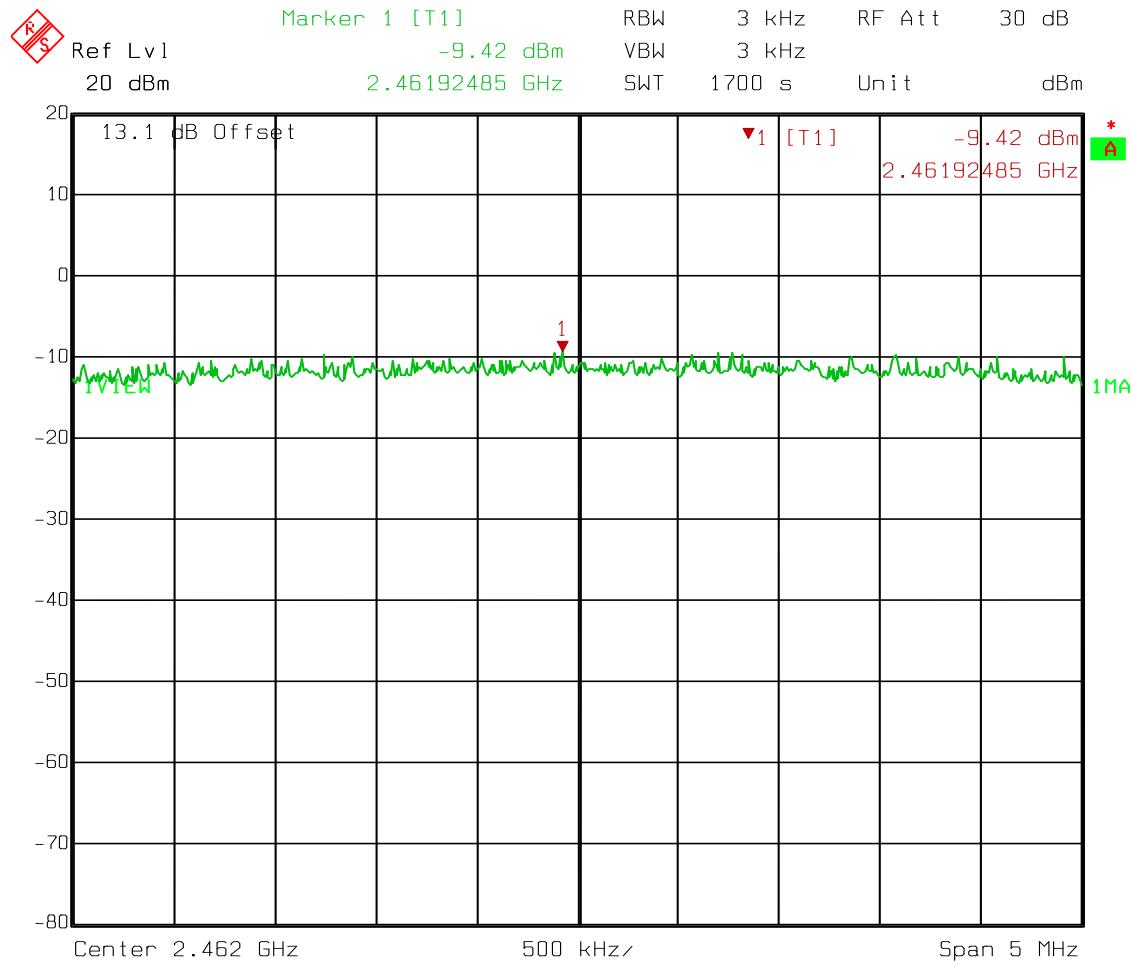
Test Equipment Used: 1767-1082-1472

Peak Power Spectral Density – 802.11b

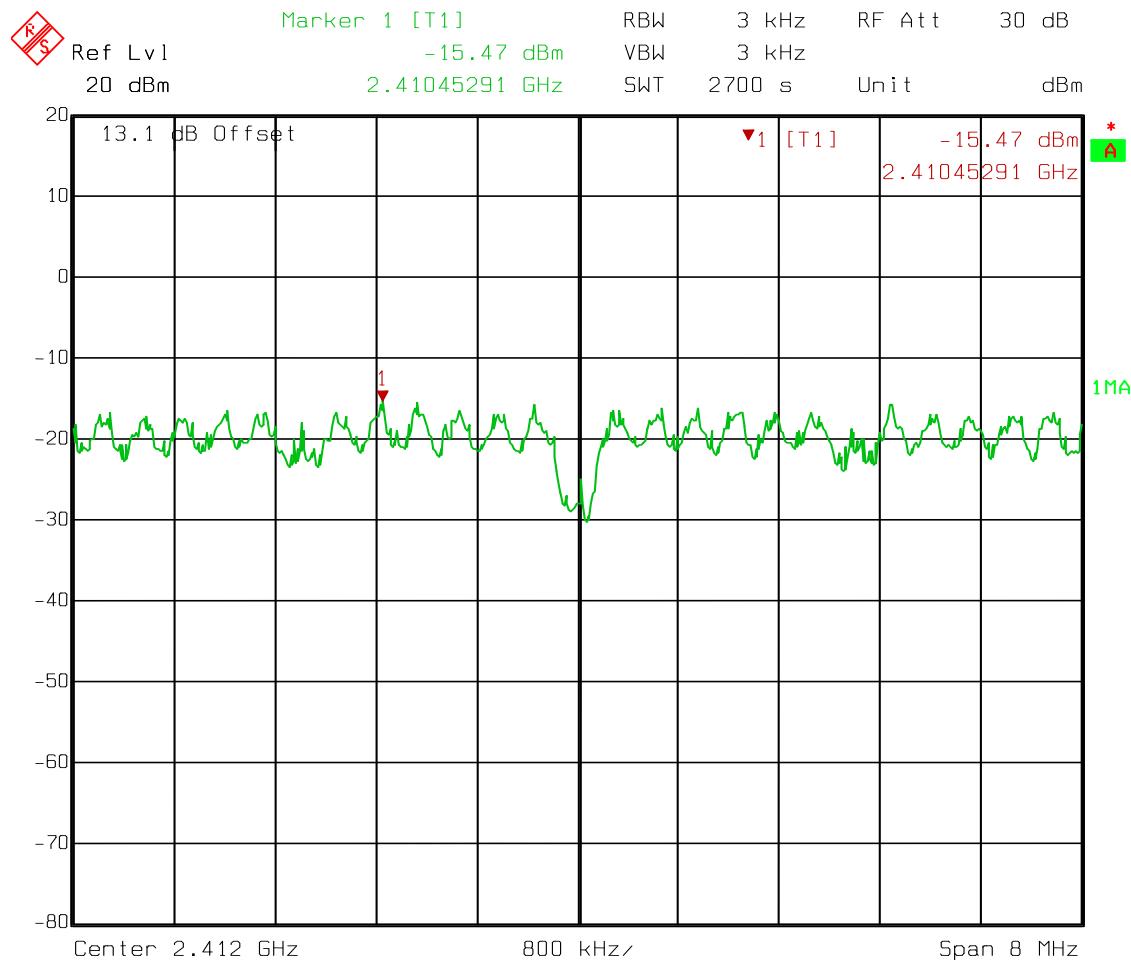
Date: 28.APR.2011 08:31:45

Peak Power Spectral Density – 802.11b

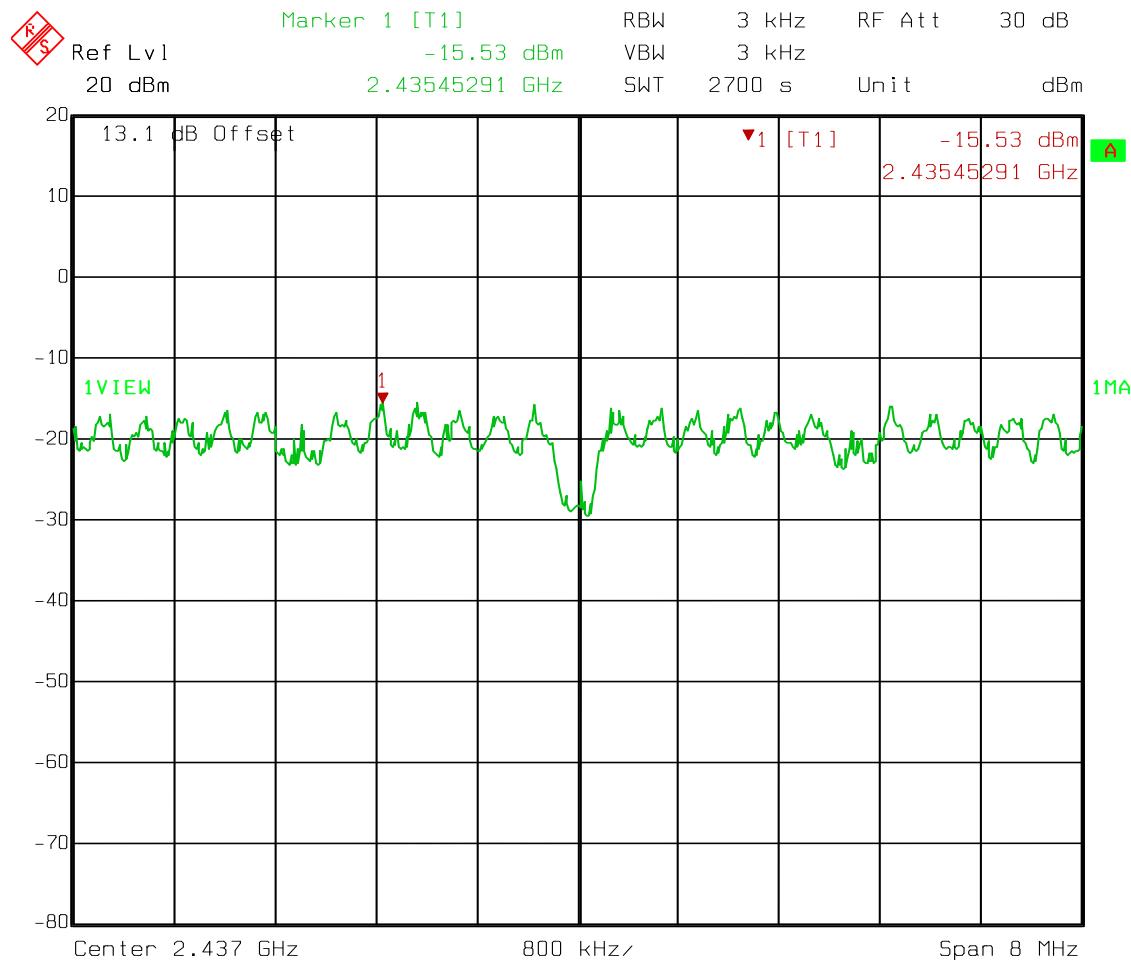
Date: 28.APR.2011 09:37:31

Peak Power Spectral Density – 802.11b

Peak Power Spectral Density – 802.11g

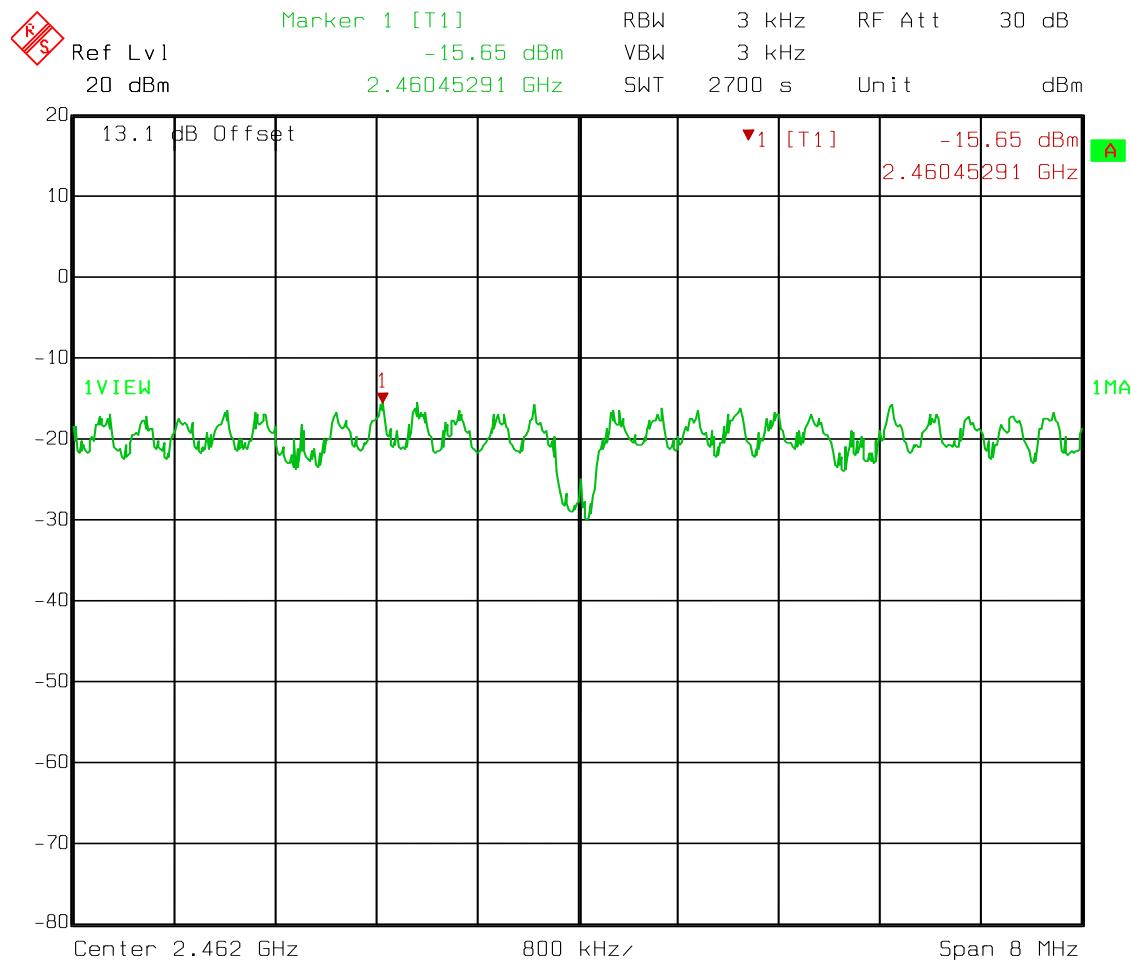


Date: 28.APR.2011 13:07:00

Peak Power Spectral Density – 802.11g

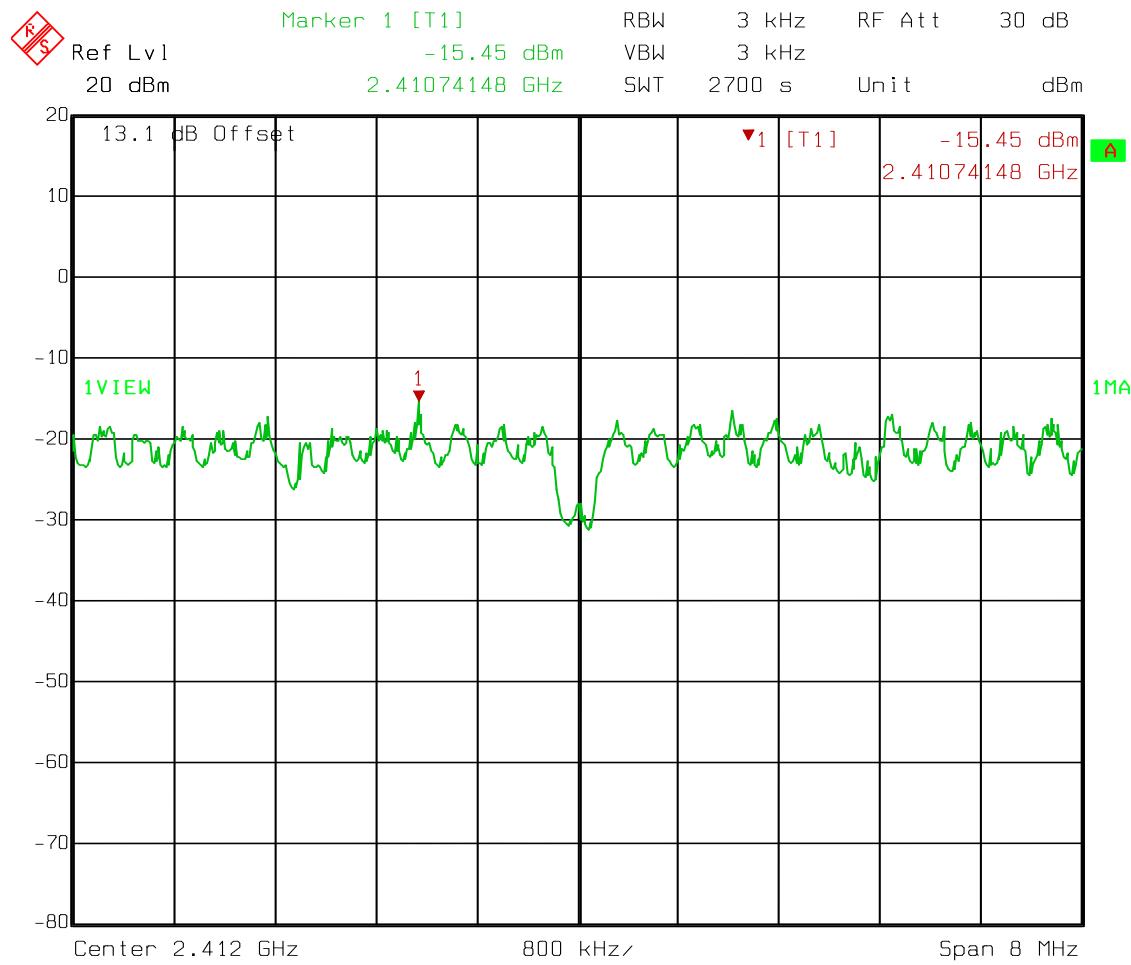
Date: 28.APR.2011 14:00:55

Peak Power Spectral Density – 802.11g

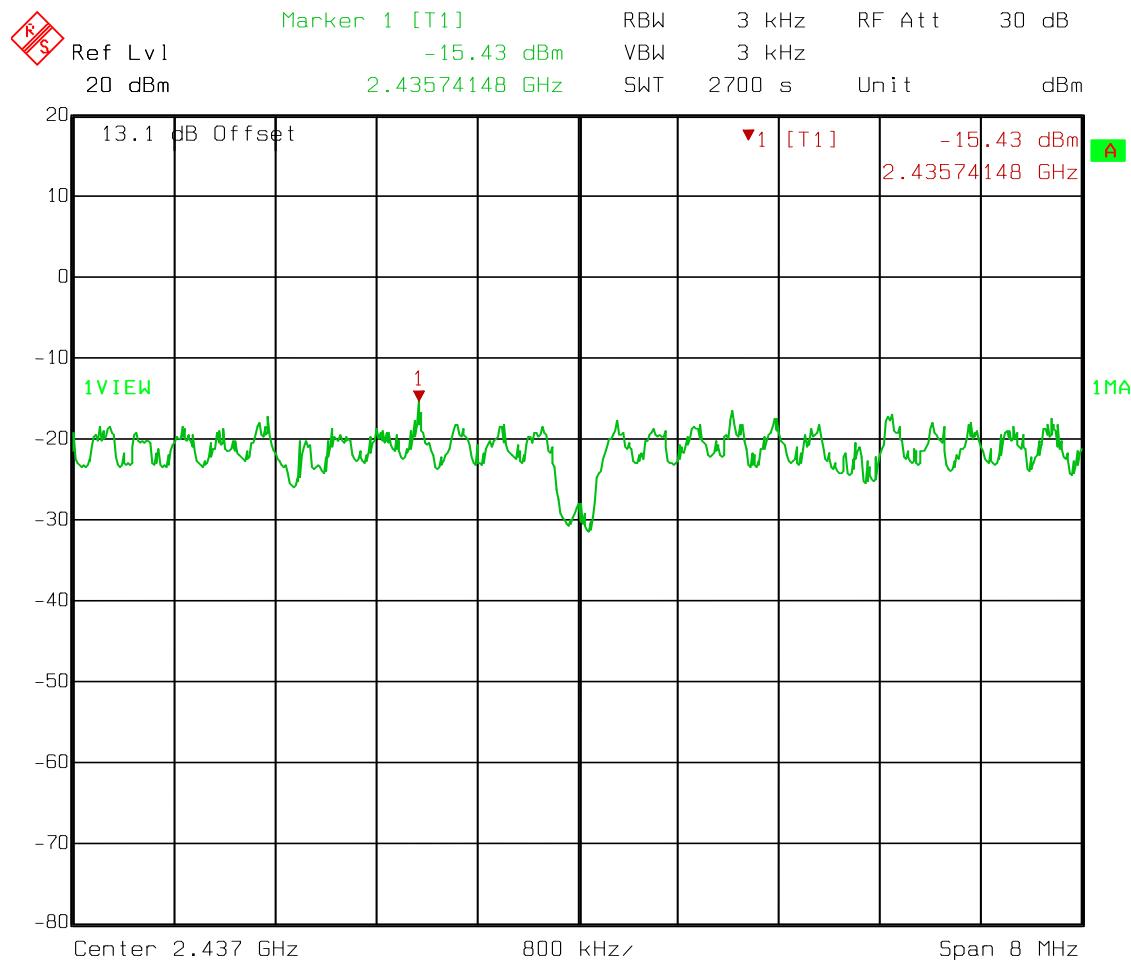


Date: 28.APR.2011 14:52:06

Peak Power Spectral Density – 802.11n

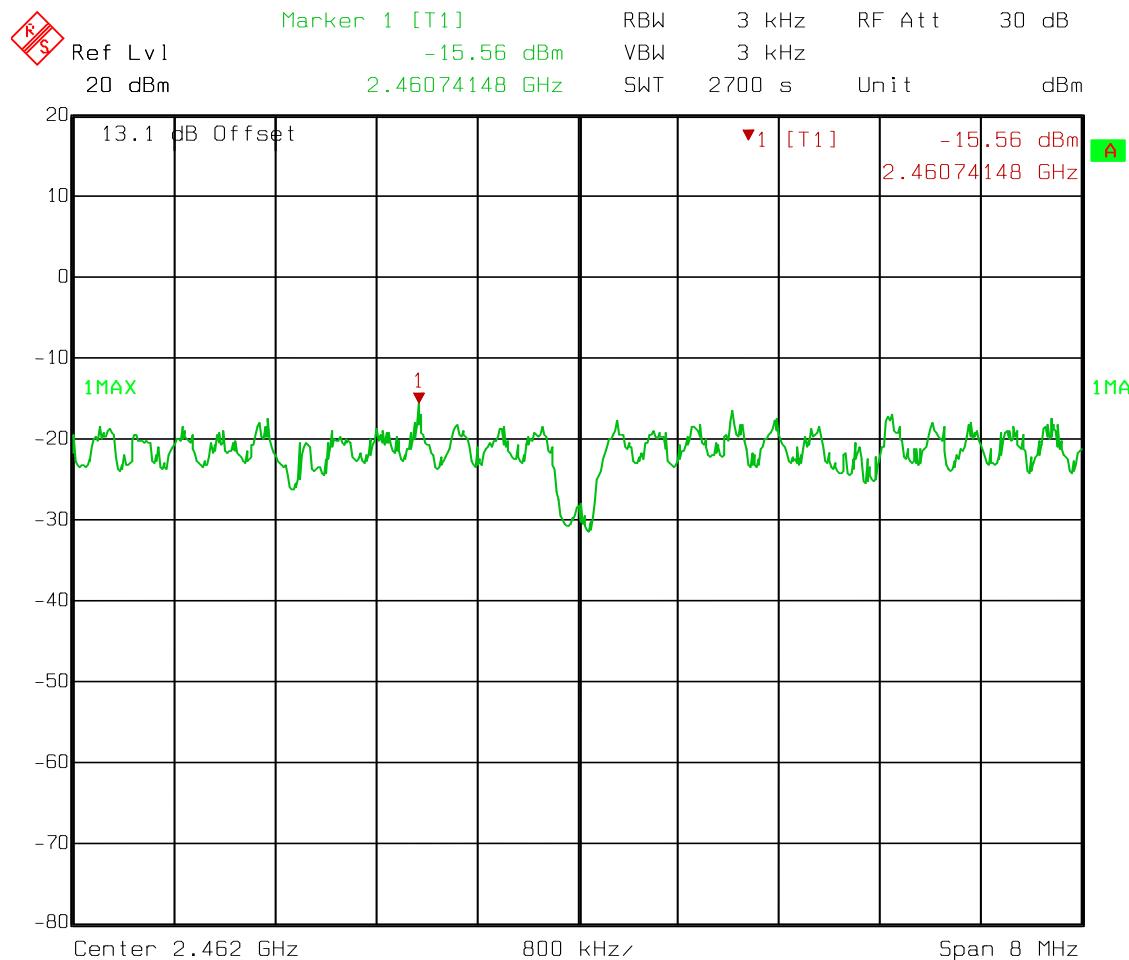


Date: 29.APR.2011 07:55:04

Peak Power Spectral Density – 802.11n

Date: 29.APR.2011 08:47:16

Peak Power Spectral Density – 802.11n



Date: 29.APR.2011 09:41:51

Section 8. Test Equipment List

Asset Tag	Description	Manufacturer	Model	Serial #	Last Cal	Next Cal
993	Antenna, Horn	A.H. Systems	SAS-200/571	162	09-Sep-2009	09-Sep-2011
1016	Preamplifier	Hewlett Packard	8449A	2749A00159	19-Jun-2010	19-Jun-2011
1082	Cable, 2m	Astrolab	32027-2-29094-72TC		N/R	
1472	Attenuator, 20dB, DC 18 Ghz	Omni Spectra	20600-20db		N/R	
1480	Antenna, Bilog	Schaffner-Chase	CBL6111C	2572	19-Jan-2011	19-Jan-2012
1484	Cable	Storm	PR90-010-072		19-Jun-2010	19-Jun-2011
1485	Cable	Storm	PR90-010-216		19-Jun-2010	19-Jun-2011
1767	Receiver,	Rohde & Schwartz	ESIB26	837491/0002	01-Dec-2010	01-Dec-2011
1025	Preamplifier, 25dB	Nemko USA, Inc.	LNA25	399	23-Feb-2011	23-Feb-2012

Nemko USA, Inc.

EQUIPMENT: Ziosk

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ANNEX A - TEST DETAILS

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.207(a)
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Minimum Standard: §15.207 Conducted limits.

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 mH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Conducted Emission (MHz)	Limit (dBmV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

(1) For carrier current systems containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 mV within the frequency band 535-1705 kHz, as measured using a 50 mH/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits as provided in §15.205 and §§15.209, 15.221, 15.223, 15.225 or 15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provision for, the use of battery chargers which permit operating while charging, AC adaptors or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

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EQUIPMENT: Ziosk

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NAME OF TEST: Occupied Bandwidth

PARA. NO.: 15.247(a)(2)

Minimum Standard: The minimum 6 dB bandwidth shall be at least 500 kHz

NAME OF TEST: Maximum Peak Output Power**PARA. NO.:** 15.247(b)(3)**Minimum Standard:** The maximum peak output power shall not exceed 1 watt.

If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point to point operation may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceed 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operation may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

Direct Measurement Method For Detachable Antennas:

If the antenna is detachable, a peak power meter is used to measure the power output with the transmitter operating into a 50 ohm load. The dBi gain of the antenna(s) employed shall be reported.

Substitution Antenna Method for Integral Antennas:

The peak field strength of the carrier is measured in a worst-case configuration with a RBW > 5 times the occupied bandwidth of the transmitted waveform. For cases where the RBW of the test instrument is not sufficient, the power is measured using a peak power meter instead of the spectrum analyzer.

The RBW of the spectrum analyzer shall be set to a value greater than the measured 6 dB occupied bandwidth of the E.U.T.

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 15.247(a)(2)

Minimum Standard: 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.

Method Of Measurement:

The spectrum analyzer is set as follows:

RBW = VBW = 100 kHz.

Span: Sufficient to display 6 dB bandwidth

LOG dB/div.: 10 dB

Sweep: Auto

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Spurious Emissions(conducted)	PARA. NO.: 15.247(d)
---	----------------------

Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

Frequency (MHz)	Field Strength (μ V/m @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

THE SPECTRUM IS SEARCHED TO THE 10th HARMONIC OF THE HIGHEST FREQUENCY GENERATED IN THE EUT.

Method Of Measurement:30 MHz - 10th harmonic plot

RBW: 100 kHz

VBW: 300 kHz

Sweep: Auto

Display line: -20 dBc

Lower Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 902 MHz, 2400 MHz, or 5725 MHz

Marker: Peak of fundamental emission

Marker Δ: Peak of highest spurious level below center frequency.

Upper Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 928 MHz, 2483.5 MHz, or 5850 MHz

Marker: Peak of fundamental emission

Marker Δ: Peak of highest spurious level above center frequency.

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Radiated Spurious Emissions**PARA. NO.:** 15.247(c)

Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits:

Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

Frequency (MHz)	Field Strength (μ V/m @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC

15.205 Restricted Bands

MHz	MHz	MHz	GHz
0.09-0.11	16.42-16.423	399.9-410	4.5-5.25
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.125-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41	1718		

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Transmitter Power Density**PARA. NO.:** 15.247(d)

Minimum Standard: The transmitted power density averaged over any 1 second interval shall not be greater than +8 dBm in any 3 kHz bandwidth.

Method Of Measurement: The spectrum analyzer is set as follows:

RBW: 3 kHz
VBW: >3 kHz
Span: => measured 6 dB bandwidth
Sweep: Span(kHz)/3 (i.e. for a span of 1.5 MHz the sweep rate is $1500/3 = 500$ sec.
LOG dB/div.: 2 dB

Note: For devices with spectrum line spacing =< 3 kHz, the RBW of the analyzer is reduced until the spectral lines are resolved. The measurement data is normalized to 3 kHz by summing the power of all the individual spectral lines within a 3 kHz band in linear power units.

For Devices With Integral Antenna:

For devices with non-detachable antennas, the received field strength is peaked and the spectrum analyzer is set as above. The peak emission level is then measured and converted to a field strength by adding the appropriate antenna factor and cable loss. This field strength is then converted to an equivalent isotropic radiated power using the same method as described for Peak Power output.

Number of channels tested:

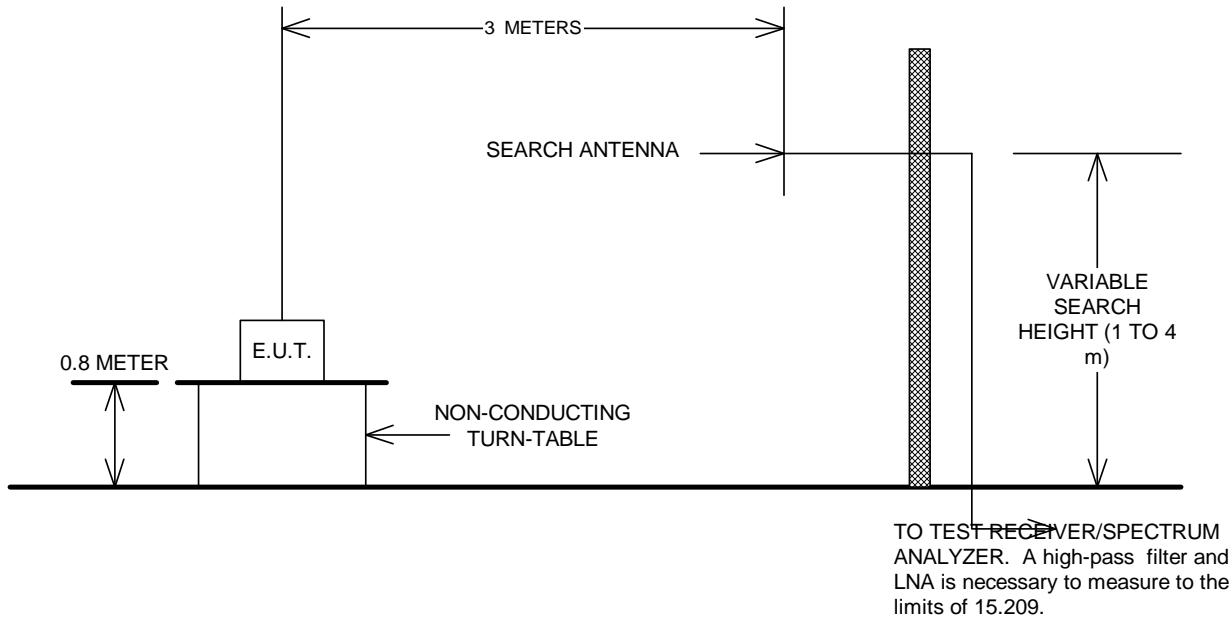
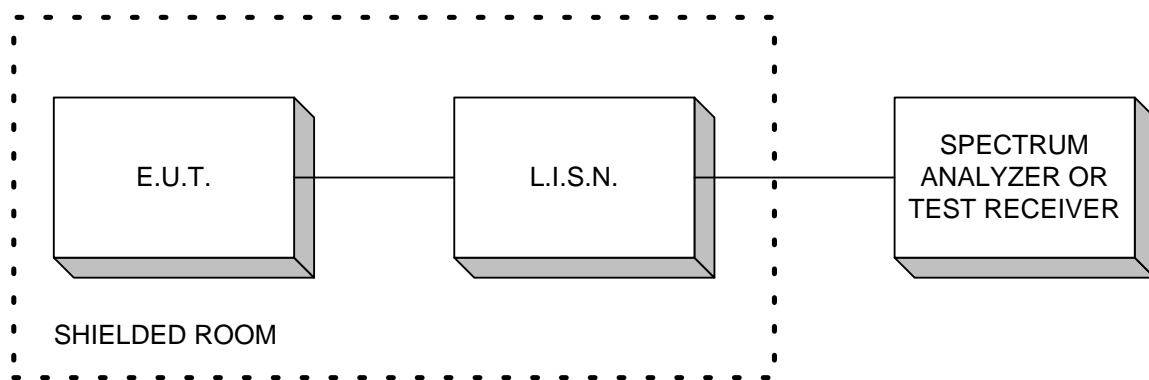
Tuning Range	Number Of Channels Tested	Channel Location In Band
1 MHz or Less	1	Middle
1 to 10 MHz	2	Top And Bottom
More Than 10 MHz	3	Top, Middle, Bottom

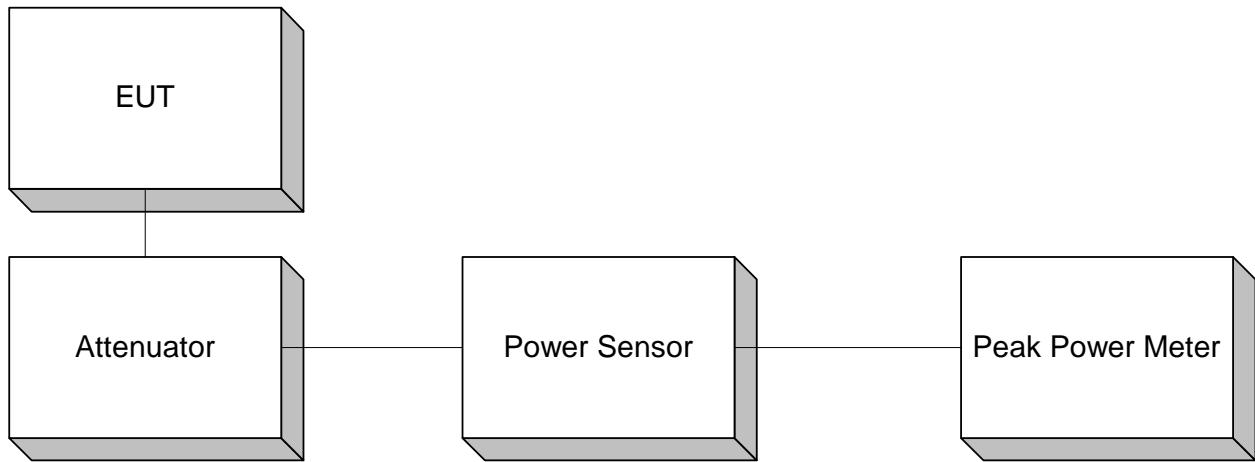
Nemko USA, Inc.

EQUIPMENT: Ziosk

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 1026888RUS1

ANNEX B - TEST DIAGRAMS

Test Site For Radiated Emissions**Conducted Emissions**

Peak Power At Antenna Terminals

Note: A spectrum analyzer may be substituted for Peak Power Meter given that the measurement bandwidth is sufficient to capture the 60 dB bandwidth of the transmitter.

Minimum 6 dB Bandwidth
Peak Power Spectral Density
Spurious Emissions (conducted)