

TEST REPORT

FROM



FOR

Intelicis Enterprise Dual Radio Access Point

Model: CEDAR 860AG

TO

47 CFR 15.247:2006

Test Report Serial No.:

SLCN07020101-INT-001(FCC 15C)

This report supersedes : None

Remarks: Equipment complied with the specification [X]
 Equipment did not comply with the specification []

This Test Report is Issued Under the Authority of:

A handwritten signature in blue ink that reads "Snell Leong".

.....
Tested by: Snell Leong, Test Engineer

A handwritten signature in blue ink that reads "Kerwin Corpuz".

.....
Reviewed by: Kerwin Corpuz, Lab Manager

Issue date: 20 Febuary 2007
Manufacturer: Intelicis Corporation



Registration No. 783147



Registration No. 4842



Lab Code: KR0032



RTA No. D23/16V



Lab Code: US0160



NVLAP Lab Code: 200729-0



BSMI Code: SL2-NE-130R

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FCCID: **U3HCEDAR860AG**
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Executive Summary

The purpose of this test programme was to demonstrate compliance of the Intelicis Corporation, Enterprise Dual Radio Access Point, model: CEDAR 860AG against the current 47 CFR 15.247:2006. The Enterprise Dual Radio Access Point demonstrated compliance with the 47 CFR 15.247:2006.

Intelicis Corporation is the applicant and claimed manufacturer of this tested product. For the detailed description of this product, please refer to the Enterprise Dual Radio Access Point User Manual.

The equipment under test is a DSSS system operating in the 2412~2462MHz, 5750~5825MHz, 5180~5220MHz band.

The equipment was tested with OFDM modulation technology.

The equipment was tested with the following antenna: Intelicis; 2 dBi 2400~2500MHZ
3 dBi 4900~5875MHz
Swivel Omni Directional antenna

The test has demonstrated that this unit complies with stipulated standards.



EUT Sample



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1 Technical Details

Purpose	Compliance testing of Enterprise Dual Radio Access Point with 47 CFR 15.247:2006
Applicant / Client	Intelicis Corporation
Manufacturer	Intelicis Corporation
Laboratory performing the tests	SIEMIC Labs 2206 Ringwood Avenue San Jose, CA 95131
Test location(s)	SIEMIC Labs 2206 Ringwood Avenue San Jose, CA 95131
Test report reference number	SLCN07020101-INT-001(FCC 15C)
Date EUT received	09-Feb-2007
Standard applied	47 CFR 15.247:2006
Dates of test (from – to)	11 January 2007 to 15 January 2007
No of Units:	1
Equipment Category:	DSS
Trade/Product Name:	Intelicis
Type/Model Name/No:	CEDAR 860AG
Technical Variants:	None
FCC ID No.	U3HCEDAR860AG



2 Tests Required

The product was tested in accordance with the following specifications.
The test results recorded in this Test Report are exclusively referred to the tested sample(s).

Test Standard		Description	Pass / Fail
47 CFR Part 15.247: 2006	RSS 210 Issue6: 2005		
15.203		Antenna Requirement	Pass
15.205	RSS210(A8.5)	Restricted Band of Operation	Pass
15.207(a)	RSSGen(7.2.2)	Conducted Emissions Voltage	Pass
15.247(a)(1)	RSS210(A8.1)	Channel Separation	N/A*
15.247(a)(1)	RSS210(A8.1)	Number of Hopping Channels	N/A*
15.247(a)(1)	RSS210(A8.1)	Time of Occupancy	N/A*
15.247(a)(1) or (2)	RSS210(A8.1)	Occupied Bandwidth	Pass
15.247(b)	RSS210(A8.4)	Output Power	Pass
15.247(c)	RSS210(A8.4)	Antenna Gain > 6 dBi	N/A
15.247(d)	RSS210(A8.5)	Conducted Spurious Emissions	Pass
15.209; 15.247(d)	RSS210(A8.5)	Radiated Spurious Emissions	Pass
15.247(e)	RSS210(A8.3)	Power Spectral Density	Pass
15.247(f)	RSS210(A8.3)	Hybrid System Requirement	N/A*
15.247(g)	RSS210(A8.1)	Hopping Capability	N/A*
15.247(h)	RSS210(A8.1)	Hopping Coordination Requirement	N/A*
15.247(i)	RSSGen(5.5)	Maximum Permissible Exposure	Pass
ANSI C63.4: 2003			

Notes: Deviations to above standards are outlined in specific test sections if applicable.
Cable loss and external attenuation are compensated for in the measurement system when applicable.

* Equipment is not a Frequency Hopping or Hybrid System.



3 Antenna Requirement

Requirement(s): 47 CFR §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

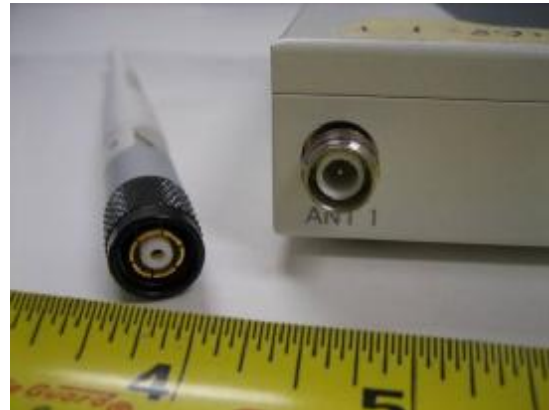
Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
- b) Antenna must use a unique type of connector to attach to the device.
- c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

The antenna has its own unique type of connector which meets the requirement. The antenna coax uses reverse TNC connector.



Antenna View 1



Antenna View 2



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4 Measurements, Examinations and Derived Results

4.1 General observations

Equipment serial number(s)		
Module:	Part number:	Serial number:
Intelicis Enterprise Dual Radio Access Point	CEDAR 860AG	CD860AG-04-06-01383



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4.2 Test Results

4.2.1 Conducted Emissions Voltage

Requirement(s): 47 CFR §15.207

Procedures:

The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50Ω/50μH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. All other supporting equipment were powered separately from another mains.

The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was set to frequency hopping mode. A scan was made on the NEUTRAL line over the required frequency range using an EMI test receiver. High peaks, relative to the limit line, were then selected. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth set to 10 kHz. Quasi-peak and Average measurements were made when necessary with the receiver RES BW set to 100 kHz. The procedure was then repeated for the PHASE line.

Preliminary test were made to transmit and standby mode with the worse case (transmit mode) reported.

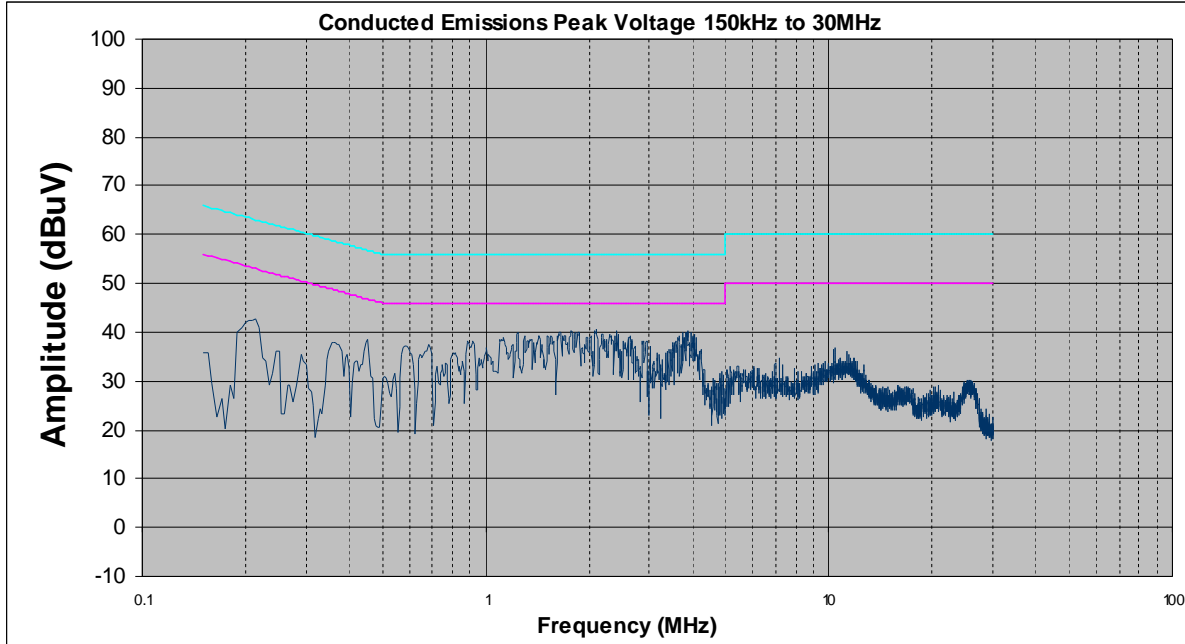


Results:

Note –

Average Limit

Quasi-Peak Limit



Phase Line Plot at 120Vac, 60Hz

Line Under Test	Freq. (MHz)	Corrected Amplitude (dBuV) QP	Limit (dBuV) QP	Margin (dB) QP	Corrected Amplitude (dBuV) AVG	Limit (dBuV) AVG	Margin (dB) AVG
Neutral	0.22	42.60	62.82	-20.22	35.50	52.82	-17.32
Neutral	0.46	38.50	56.69	-18.19	33.10	46.69	-13.59
Neutral	1.82	30.30	56.00	-25.70	27.60	46.00	-18.40
Neutral	3.88	39.90	56.00	-16.10	34.40	46.00	-11.60
Neutral	1.25	38.90	56.00	-17.10	33.50	46.00	-12.50

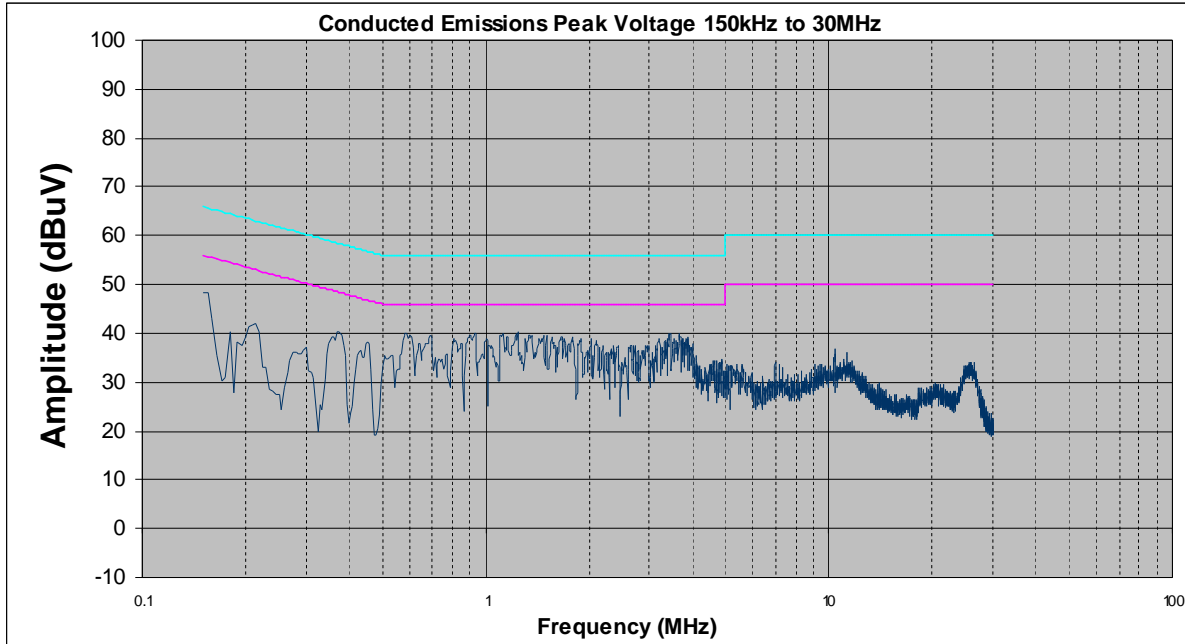
Phase Line Table



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Neutral Line Plot at 120Vac, 60Hz

Line Under Test	Freq. (MHz)	Corrected Amplitude (dBuV) QP	Limit (dBuV) QP	Margin (dB) QP	Corrected Amplitude (dBuV) AVG	Limit (dBuV) AVG	Margin (dB) AVG
Line	0.22	43.1	62.82	-19.72	35.60	52.82	-17.22
Line	0.46	39.9	56.69	-16.79	35.60	46.69	-11.09
Line	1.82	41.2	56.00	-14.80	34.10	46.00	-11.90
Line	3.88	42.1	56.00	-13.90	35.40	46.00	-10.60
Line	1.25	42.6	56.00	-13.40	33.70	46.00	-12.30

Neutral Line Table

Tested By: Snell Leong

Date Tested: 18 February 2007



4.2.2 Occupied Bandwidth

Requirement(s): 47 CFR §15.247(a)(1)

Procedures: The 6dB bandwidths were measured conducted using a spectrum analyzer at low, mid, and hi channels. 6 dB Bandwidth Limit: < 500 kHz.

Results:

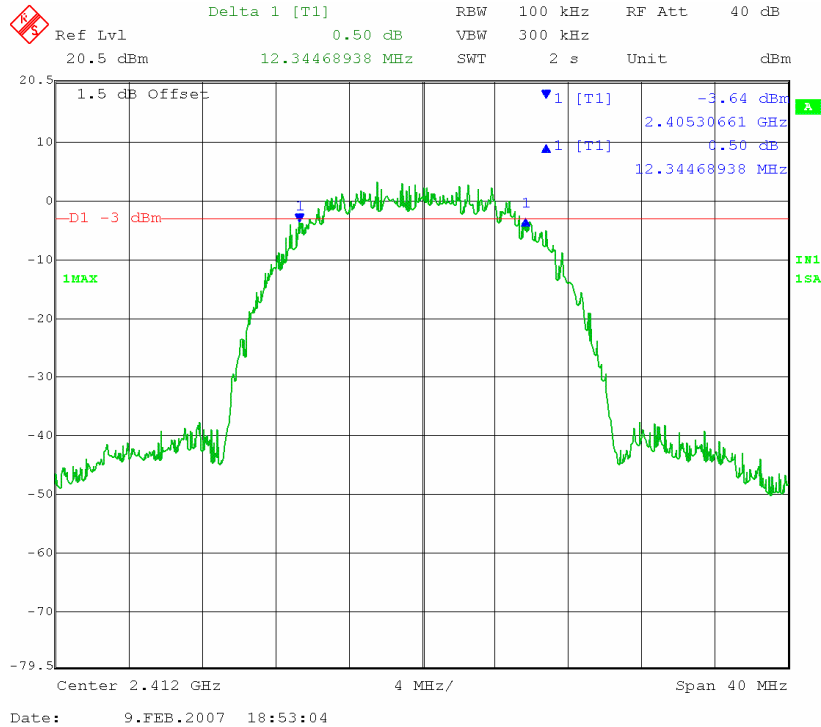
Plot #	Protocol	Channel	Channel Frequency (MHz)	6 dB Occupied Bandwidth Limit (MHz)	6 dB Channel Bandwidth (MHz)
1	802.11b	Low	2412	0.5	12.1
2	802.11b	Mid	2437	0.5	12.4
3	802.11b	High	2462	0.5	12.4
4	802.11g	Low	2412	0.5	16.5
5	802.11g	Mid	2437	0.5	16.5
6	802.11g	High	2462	0.5	16.3
7	802.11a	Low	5750	0.5	16.6
8	802.11a	Mid	5785	0.5	16.6
9	802.11a	High	5825	0.5	16.6



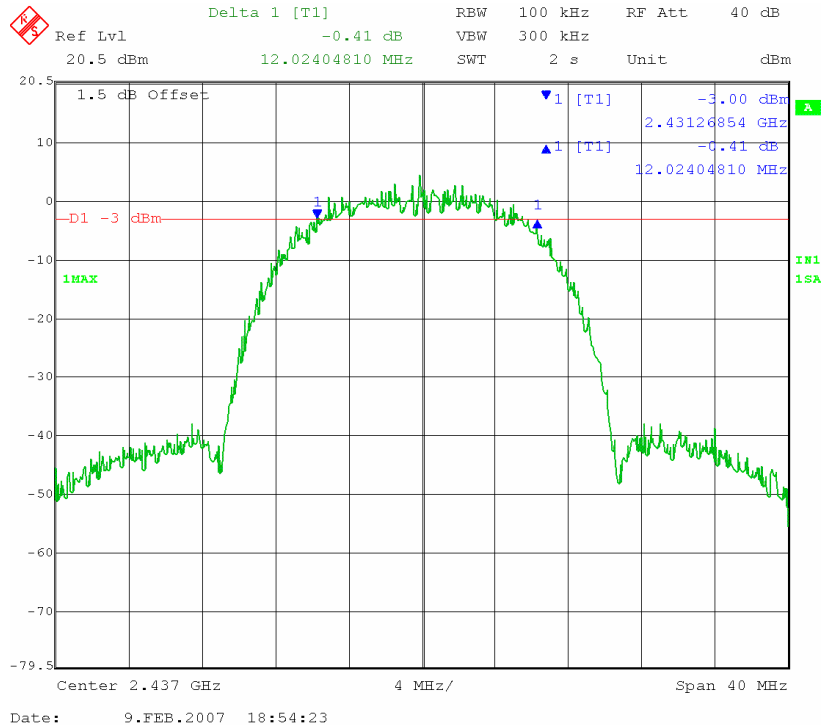
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Plot 1: 6dB Bandwidth (Low) with 802.11b protocol



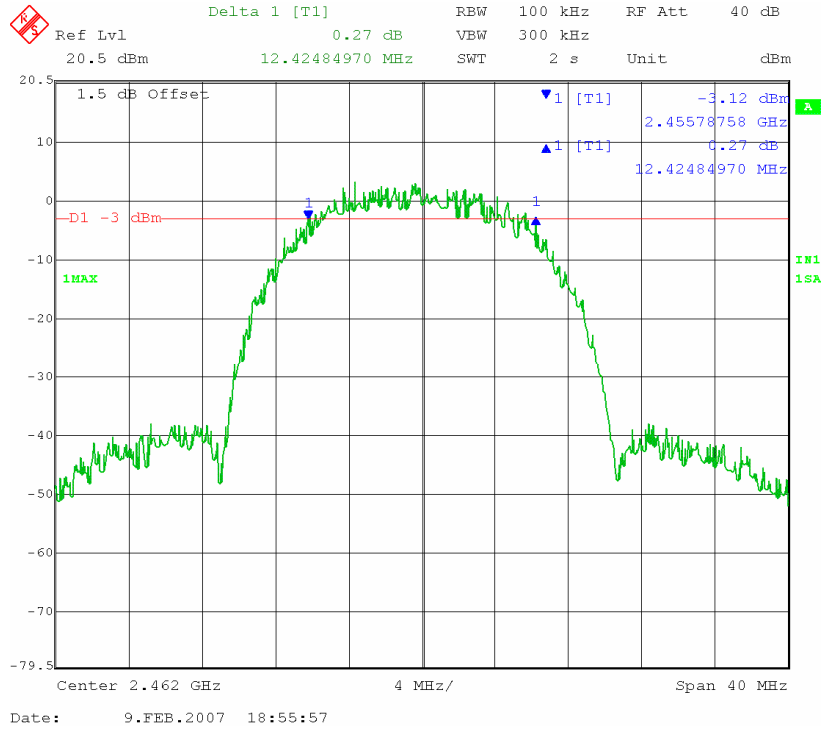
Plot 2: 6dB Bandwidth (Middle) with 802.11b protocol



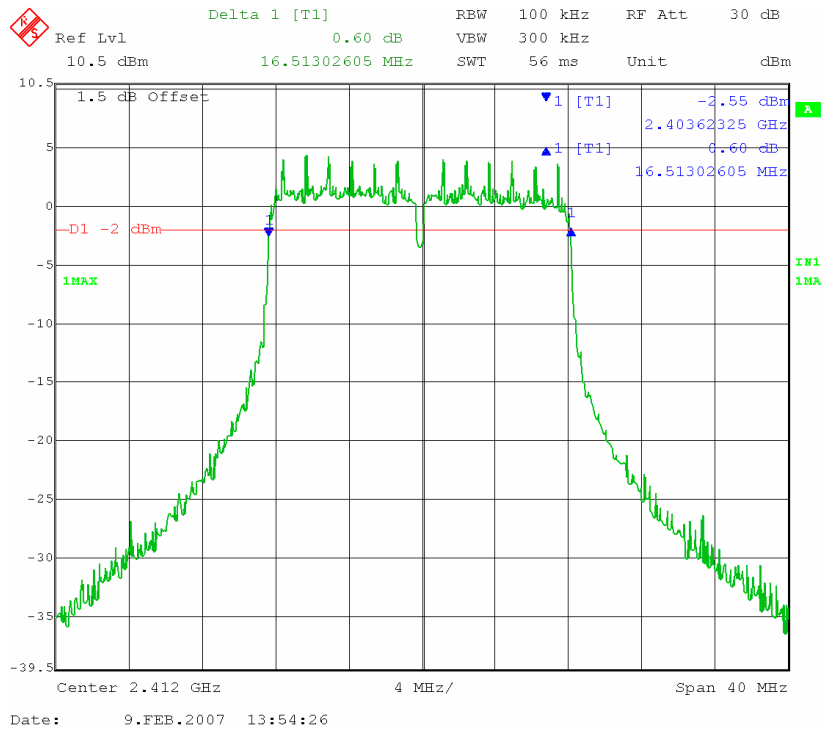
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Plot 3: 6dB Bandwidth (High) with 802.11b protocol



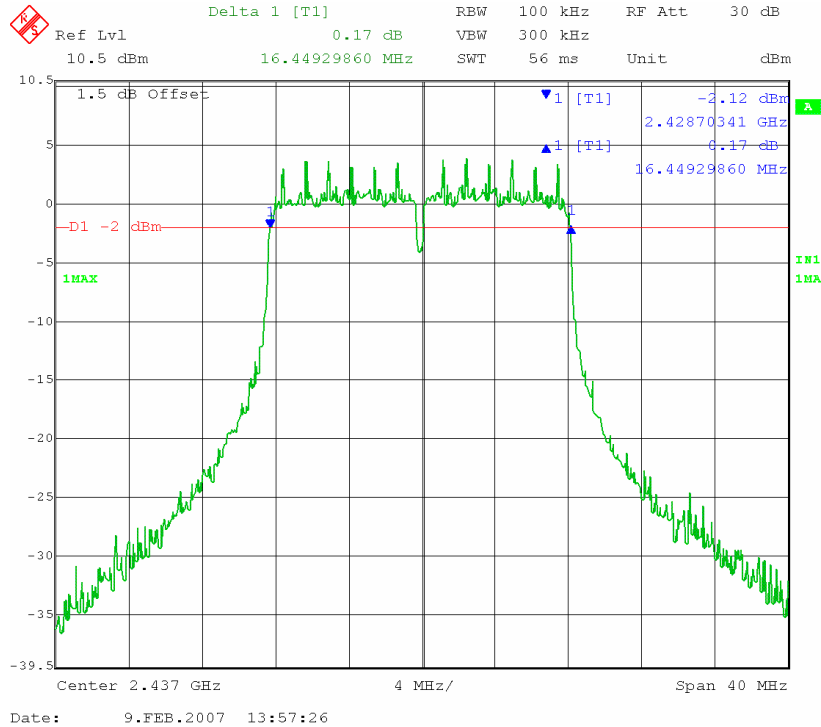
Plot 4: 6dB Bandwidth (Low) with 802.11g protocol



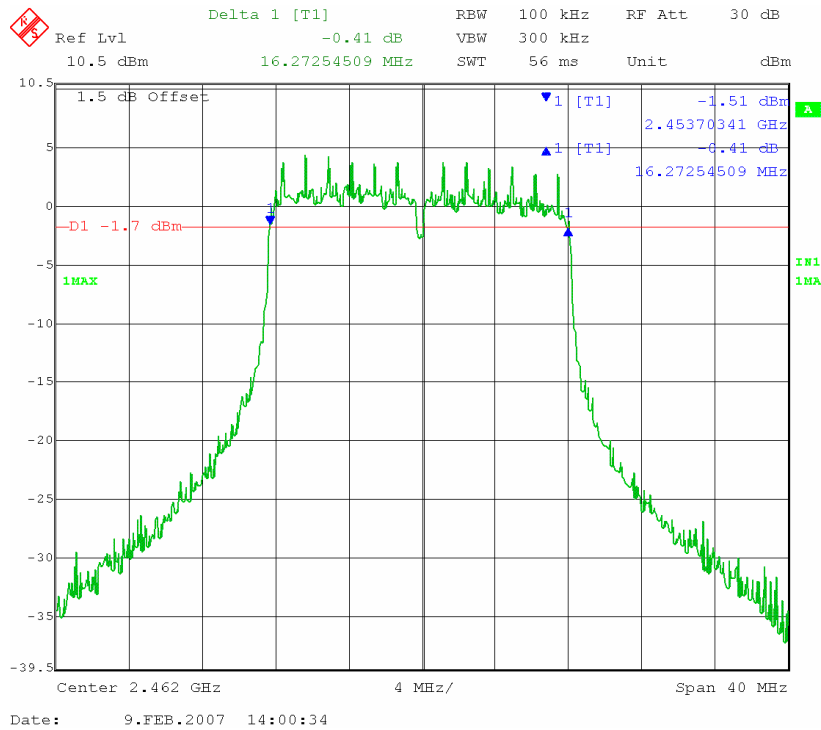
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Plot 5: 6dB Bandwidth (Middle) with 802.11g protocol



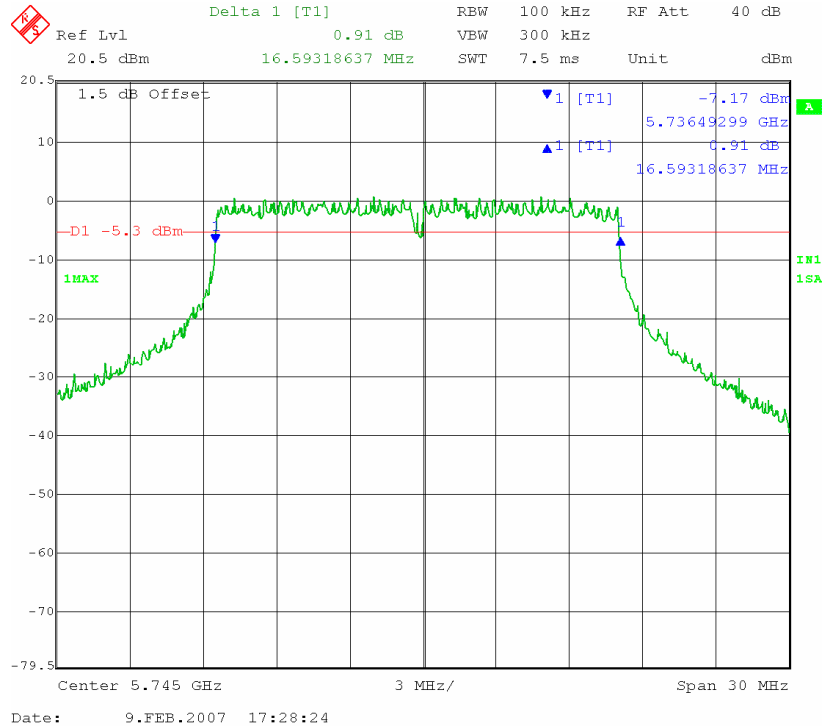
Plot 6: 6dB Bandwidth (High) with 802.11g protocol



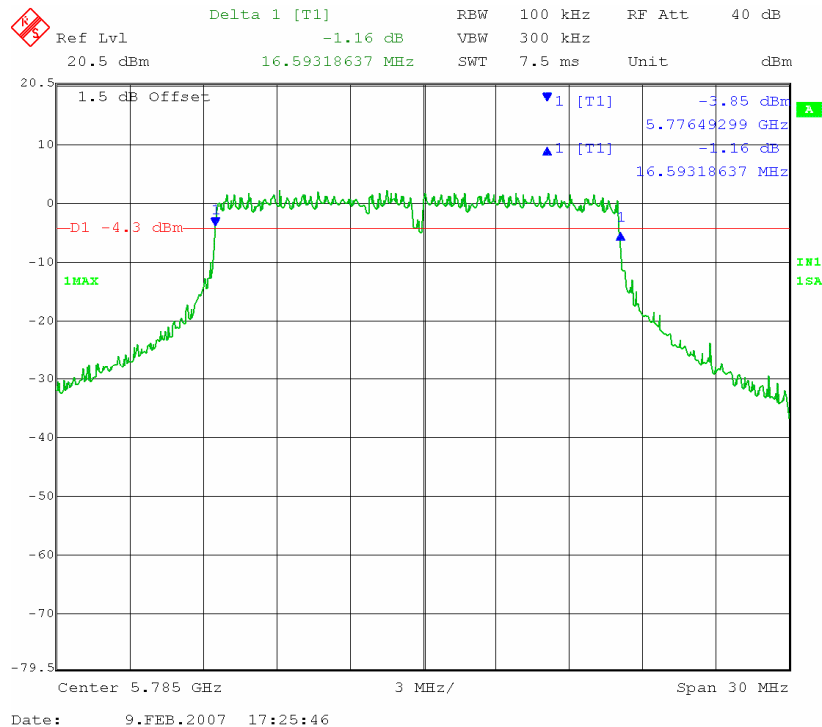
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Plot 7: 6dB Bandwidth (Low) with 802.11a protocol



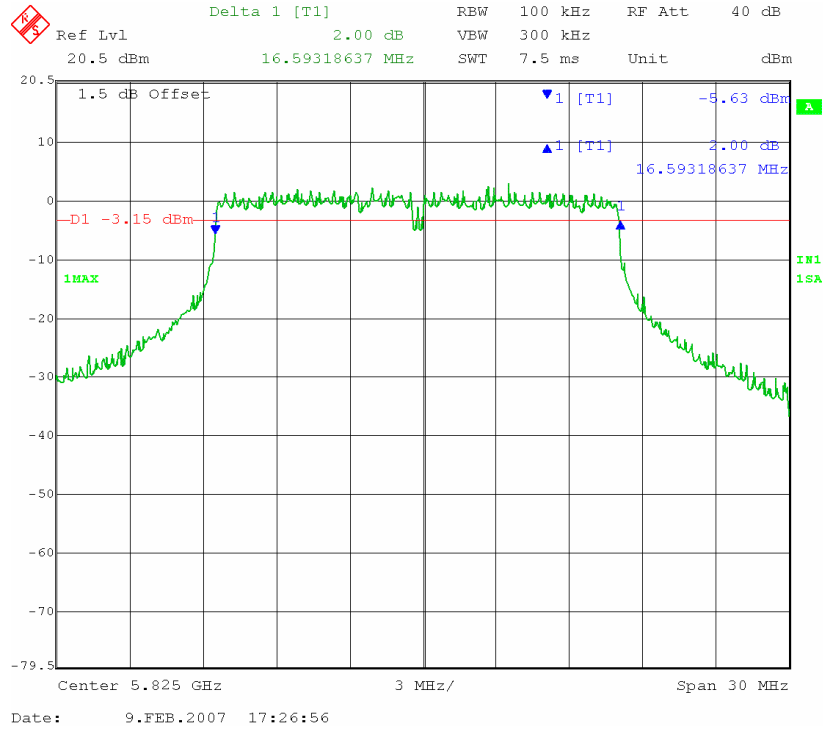
Plot 8: 6dB Bandwidth (Middle) with 802.11a protocol



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Plot 9: 6dB Bandwidth (High) with 802.11a protocol

Tested By: Snell Leong

Date Tested: 15 – 16 February 2007



4.2.3 Peak Spectral Density

Requirement(s): 47 CFR §15.247(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

Procedures: The Peak Spectral density measurement was taken conducted using a spectrum analyzer.

RBW=3KHz, VBW > RBW , Sweep time to SPAN/RBW (sec)

Results:

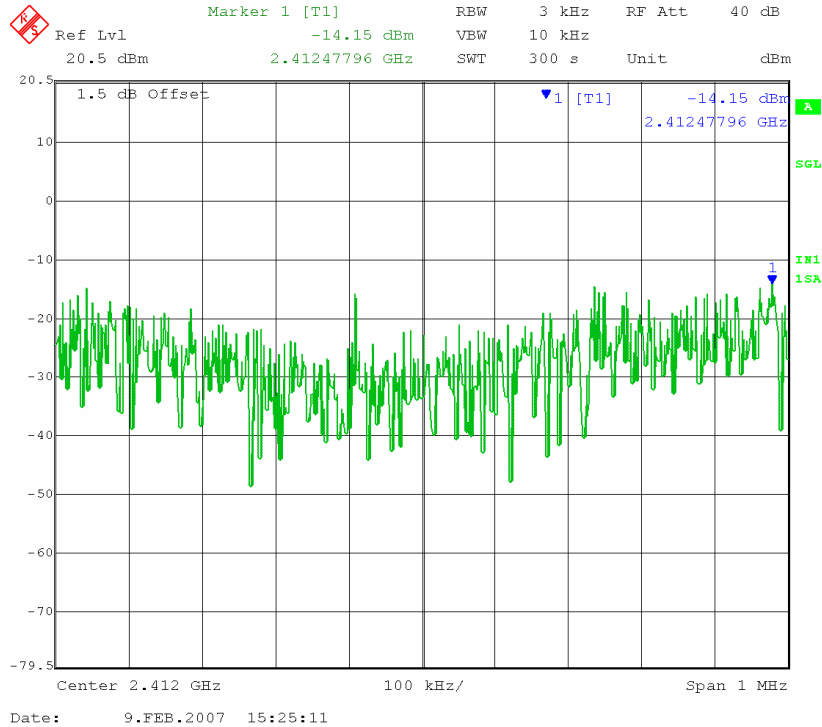
Plot #	Protocol	Channel	Channel Frequency (MHz)	Peak Spectral Density Limit (dBm/3KHz)	Peak Spectral Density (dBm/3KHz)
10	802.11b	Low	2412	8	-14
11	802.11b	Mid	2437	8	-12
12	802.11b	High	2462	8	-14
13	802.11g	Low	2412	8	-12.6
14	802.11g	Mid	2437	8	-12.2
15	802.11g	High	2462	8	-12.6
16	802.11a	Low	5750	8	-7.4
17	802.11a	Mid	5785	8	-6.1
18	802.11a	High	5825	8	-5.3



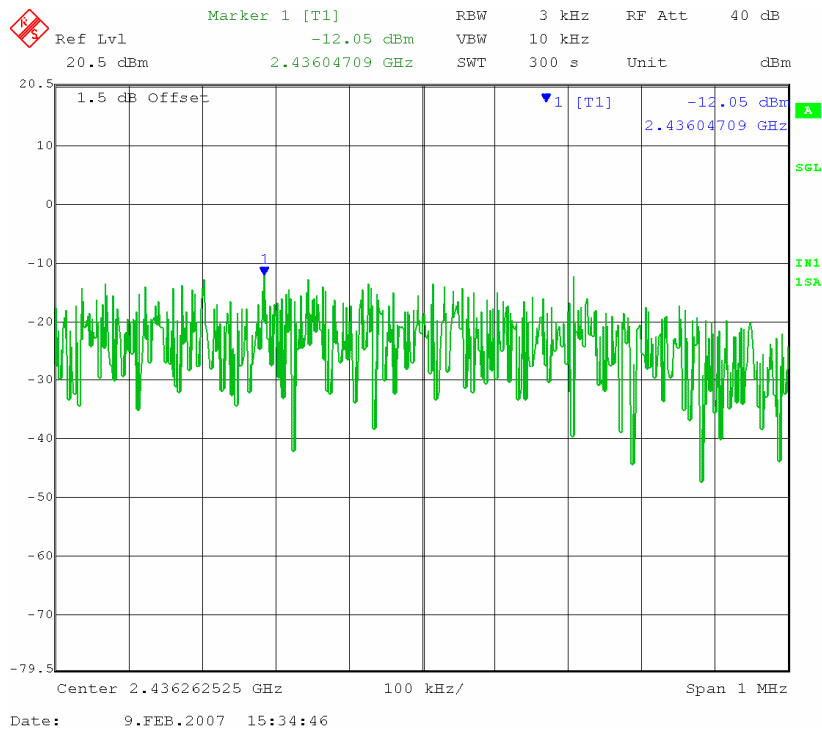
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Plot 10: Peak Spectral Density (Low) with 802.11b protocol



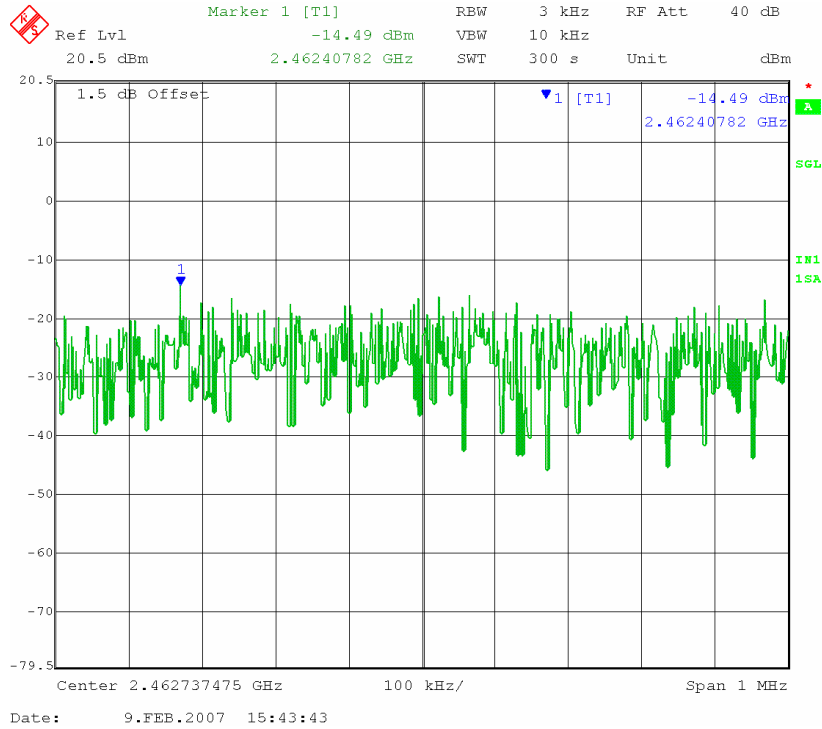
Plot 11: Peak Spectral Density (Middle) with 802.11b protocol



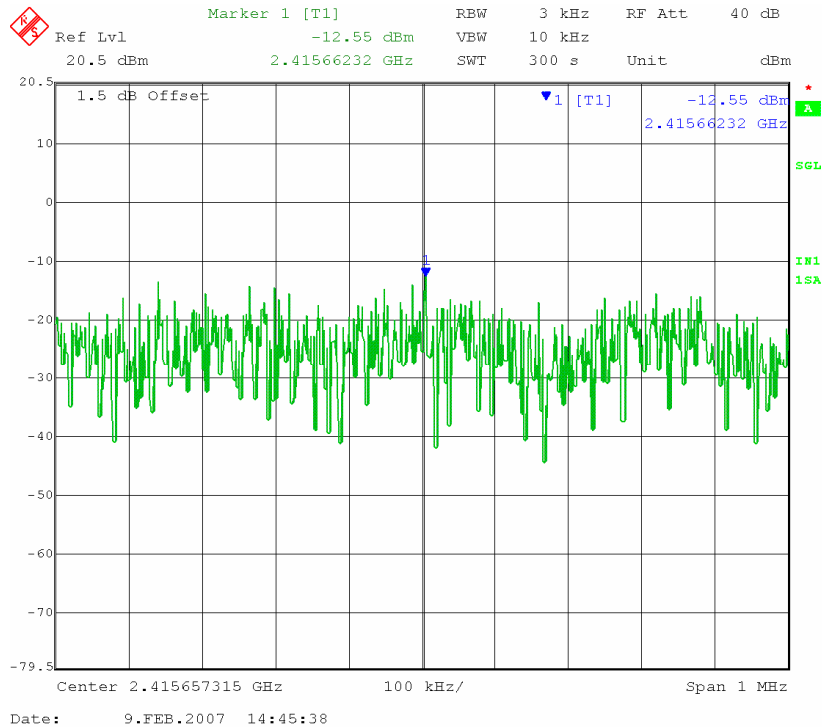
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Plot 12: Peak Spectral Density (High) with 802.11b protocol



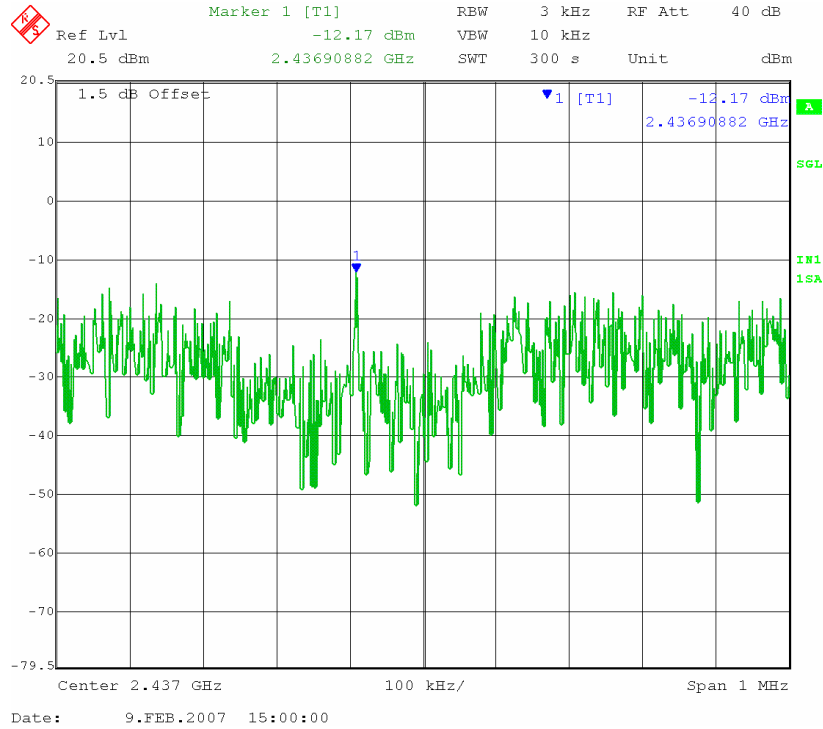
Plot 13: Peak Spectral Density (Low) with 802.11g protocol



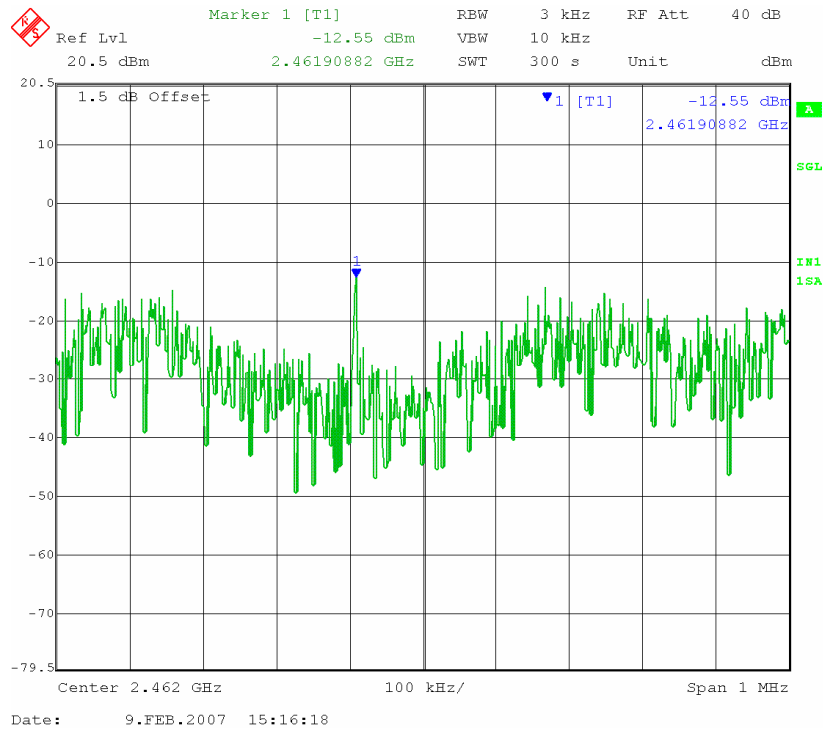
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Plot 14: Peak Spectral Density (Middle) with 802.11g protocol



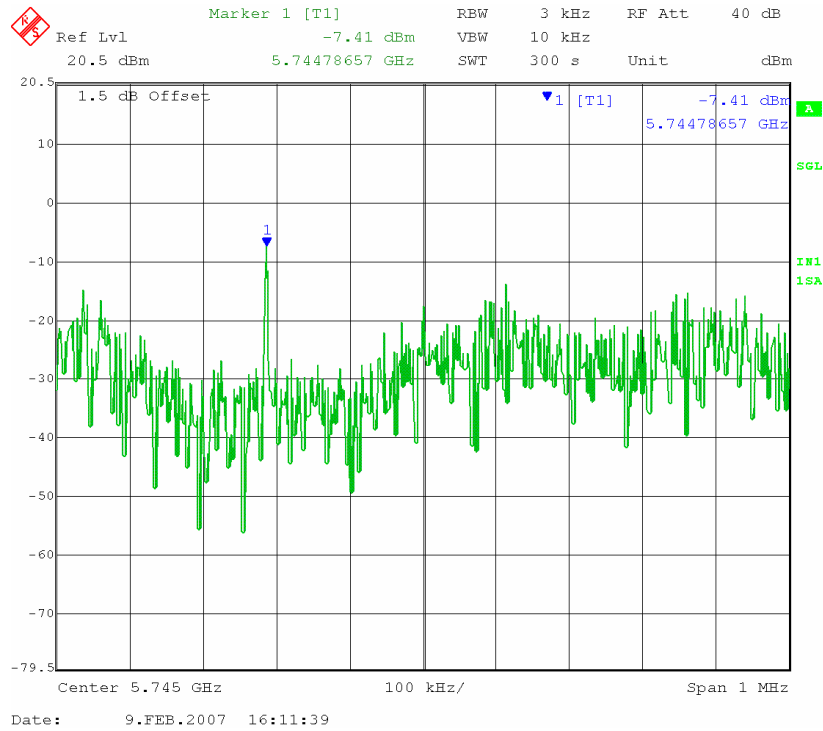
Plot 15: Peak Spectral Density (High) with 802.11g protocol



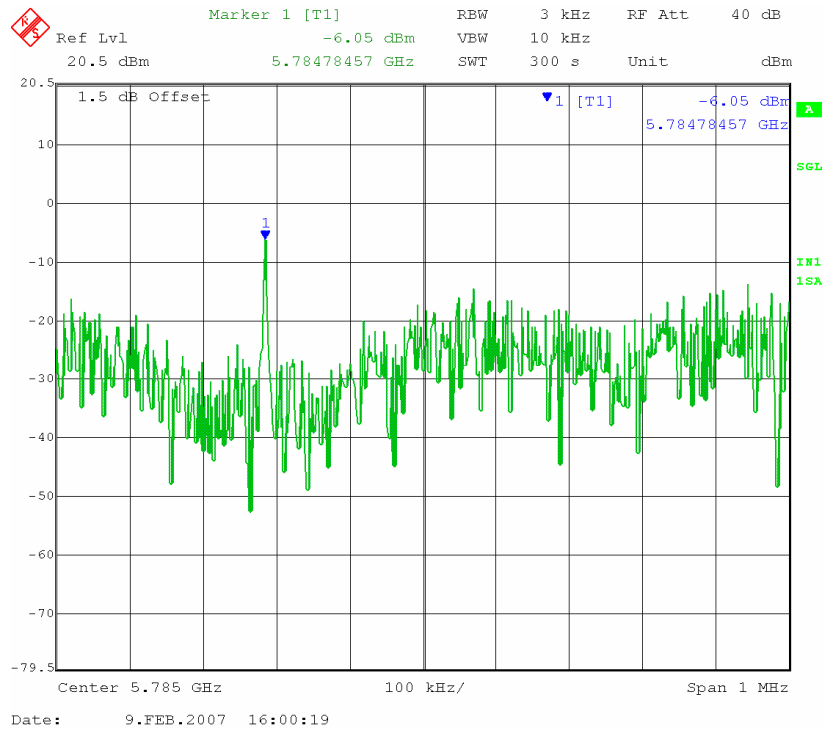
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Plot 16: Peak Spectral Density (Low) with 802.11a protocol



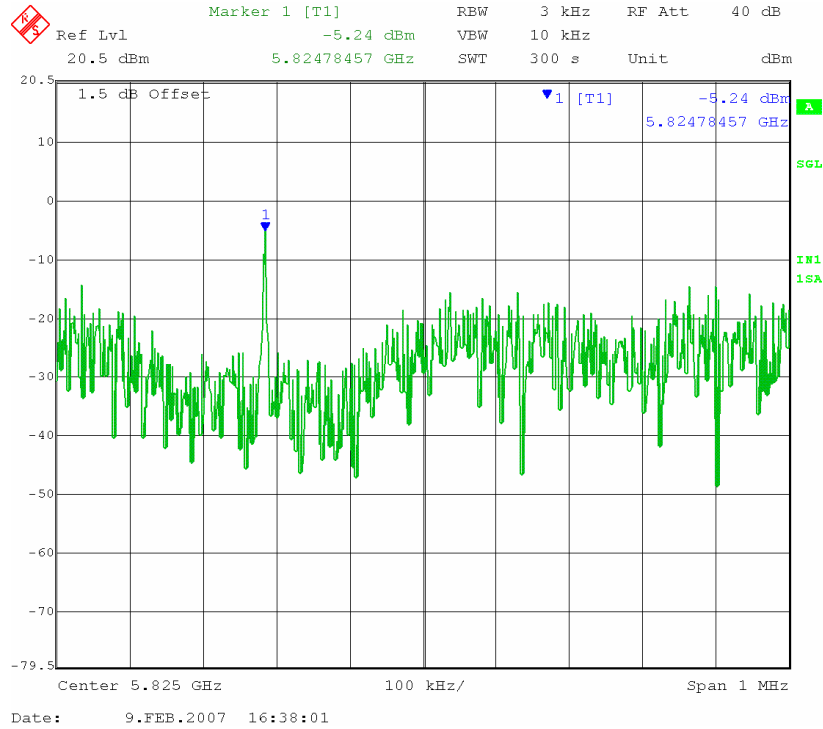
Plot 17: Peak Spectral Density (Middle) with 802.11a protocol



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Plot 18: Peak Spectral Density (High) with 802.11a protocol

Tested By: Snell Leong

Date Tested: 16 February 2007



4.2.4 Peak Output Power

Requirement(s): 47 CFR §15.247(b)

Procedures: The peak output power was measured conducted using a spectrum analyzer at low, mid, and hi channels. Peak detector was set to measure the power output. The power is converted from watt to dBm, therefore, 1 watt = 30 dBm. The highest antenna gain that will be used is 3 dBi.

Reference level offset to spectrum analyzer: Cable Loss = 1.5 dB for 802.11b/g and 2.1 dB for 802.11a.

Results:

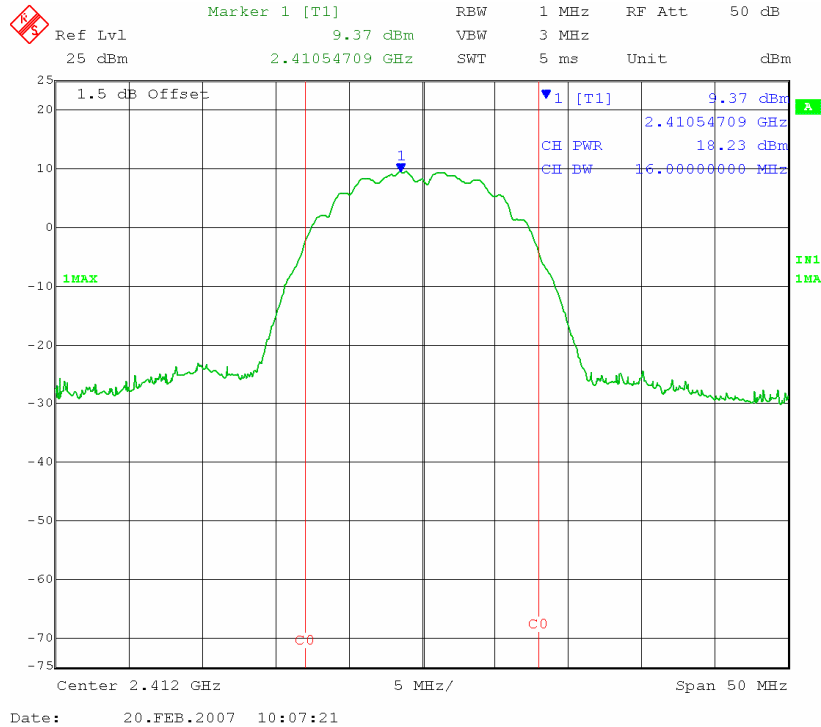
Plot #	Protocol	Channel	Channel Frequency (MHz)	Peak Output Power Limit (dBm)	Measured Output Power(dBm)
19	802.11b	Low	2412	30	18.23
20	802.11b	Mid	2437	30	17.93
21	802.11b	High	2462	30	17.83
22	802.11g	Low	2412	30	23.04
23	802.11g	Mid	2437	30	22.54
24	802.11g	High	2462	30	22.95
25	802.11a	Low	5750	30	23.91
26	802.11a	Mid	5785	30	24.02
27	802.11a	High	5825	30	24.28



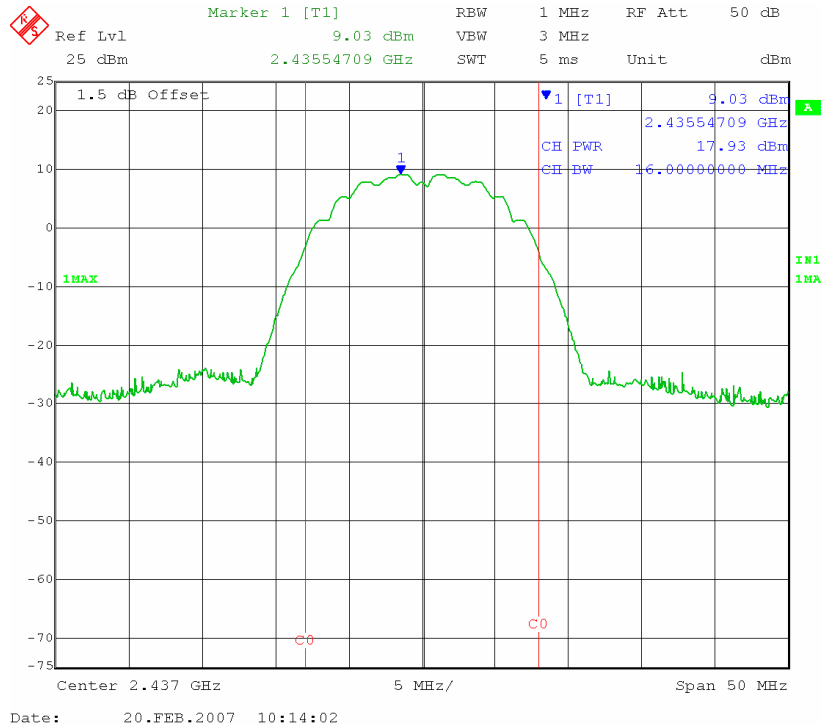
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Plot 19: Peak Power (Low) with 803.11b protocol



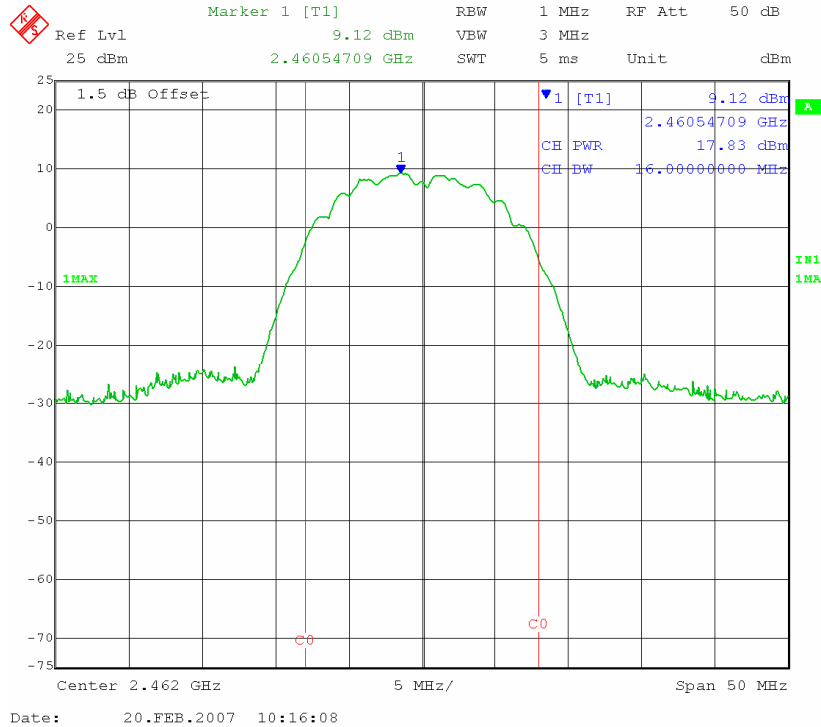
Plot 20: Peak Power (Middle) with 803.11b protocol



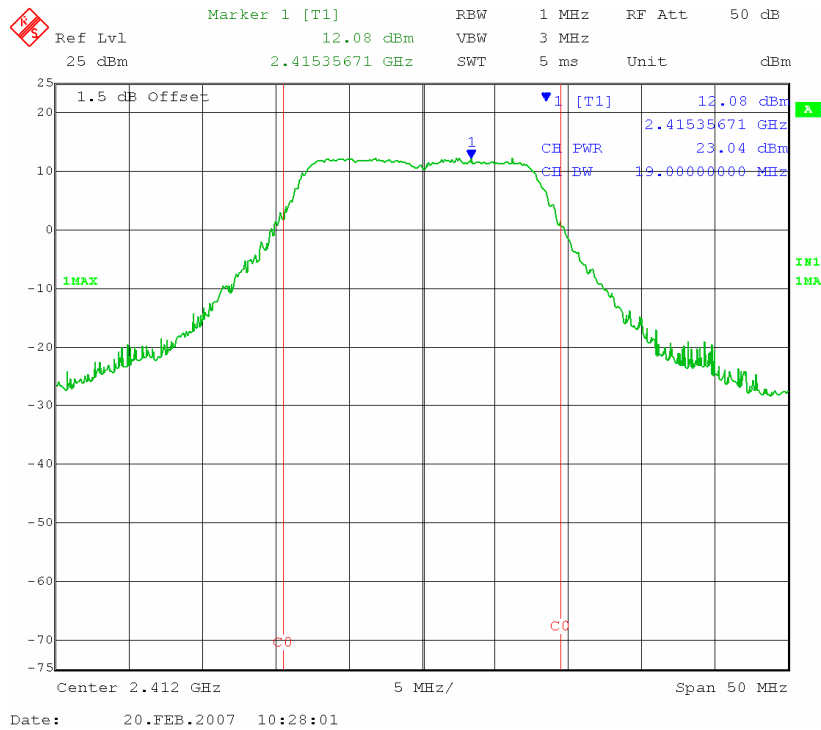
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Plot 21: Peak Power (High) with 803.11b protocol



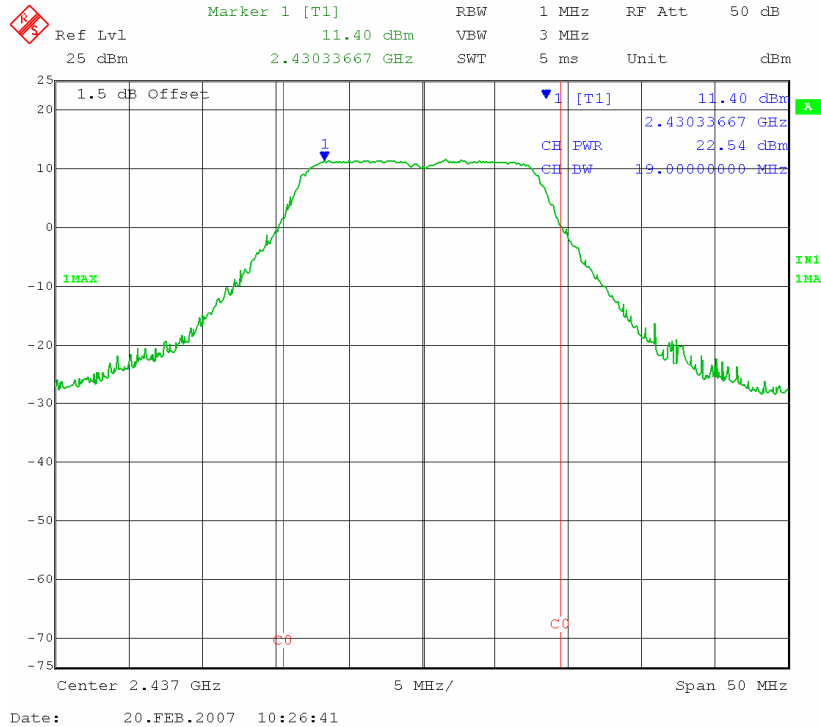
Plot 22: Peak Power (Low) with 803.11g protocol



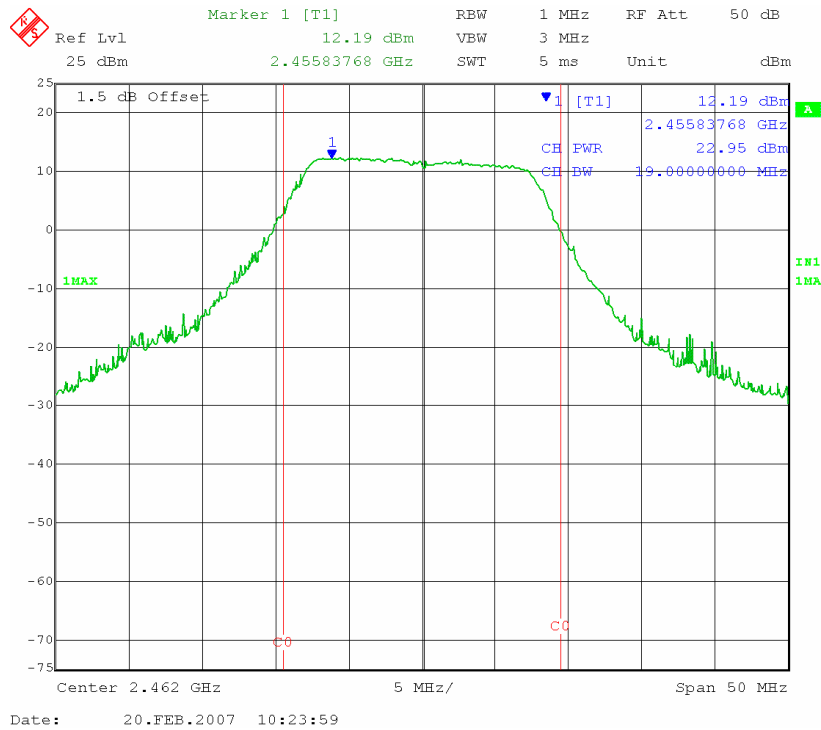
SIEMIC
www.siemic.com

Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Plot 23: Peak Power (Middle) with 803.11g protocol



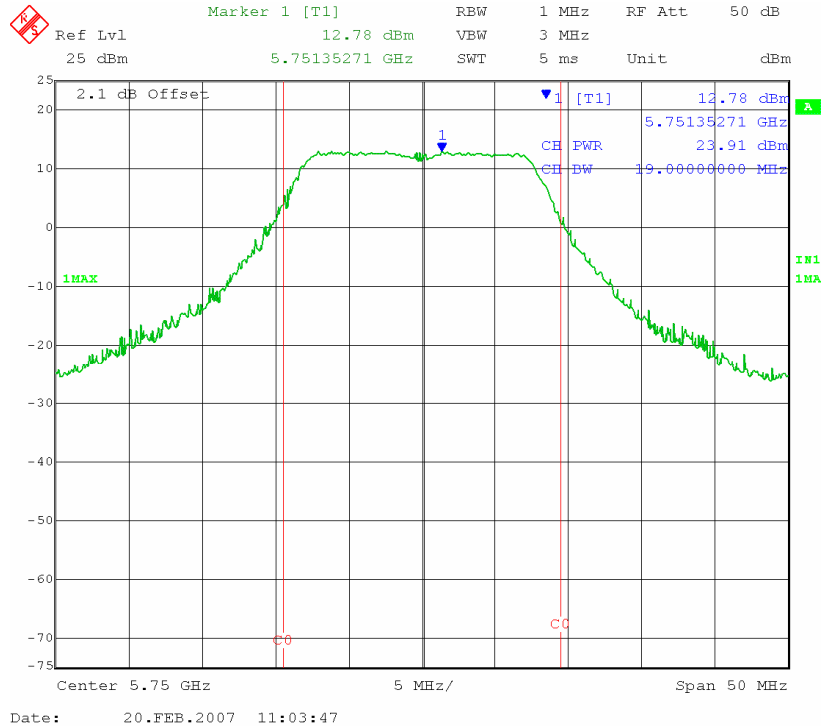
Plot 24: Peak Power (High) with 803.11g protocol



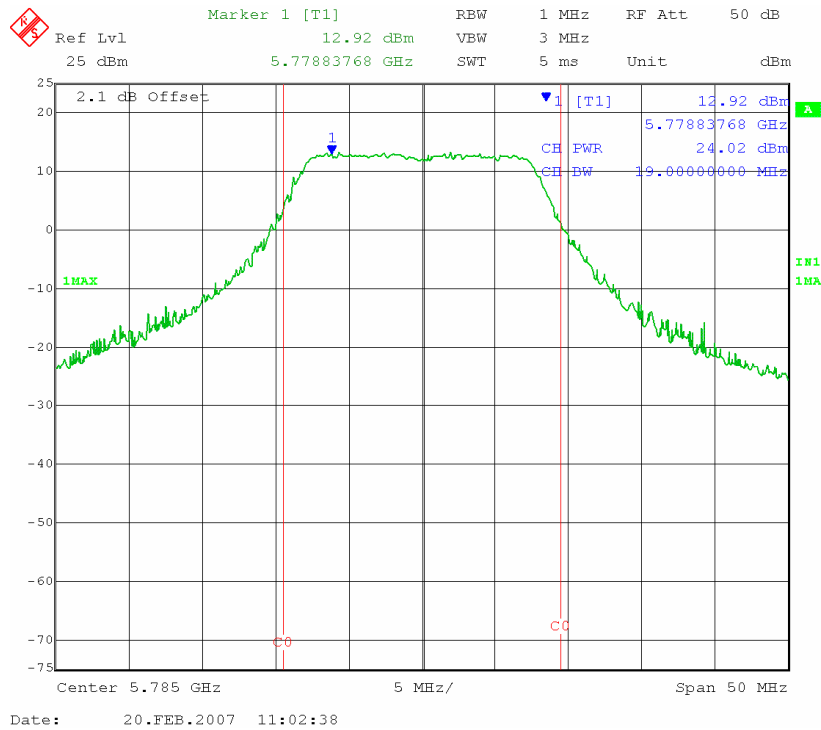
SIEMIC
www.siemic.com

Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Plot 25: Peak Power (Low) with 803.11a protocol



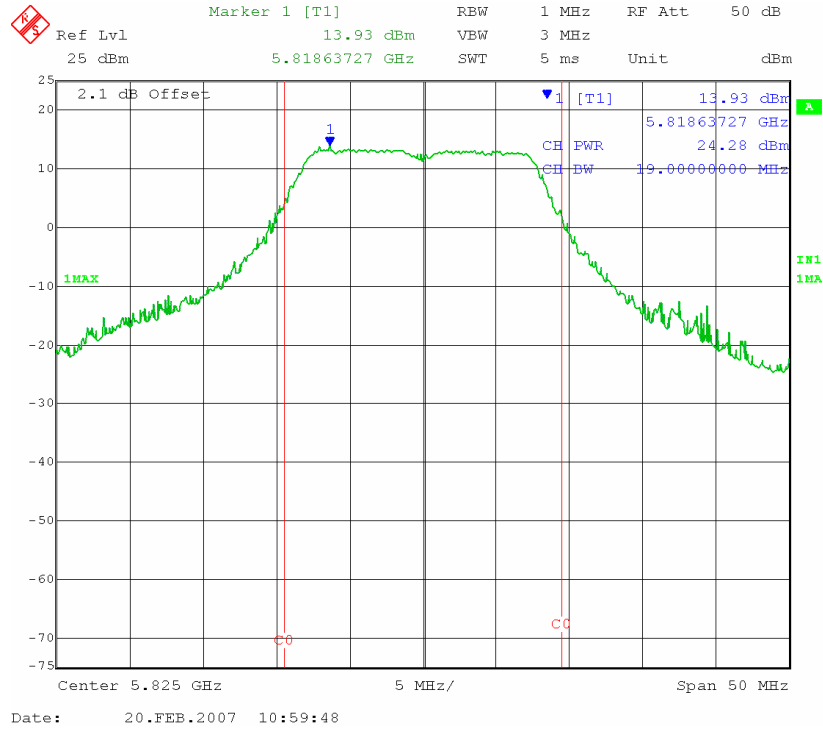
Plot 26: Peak Power (Middle) with 803.11a protocol



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Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Plot 27: Peak Power (High) with 803.11a protocol

Tested By: Snell Leong

Date Tested: 20 February 2007



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Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

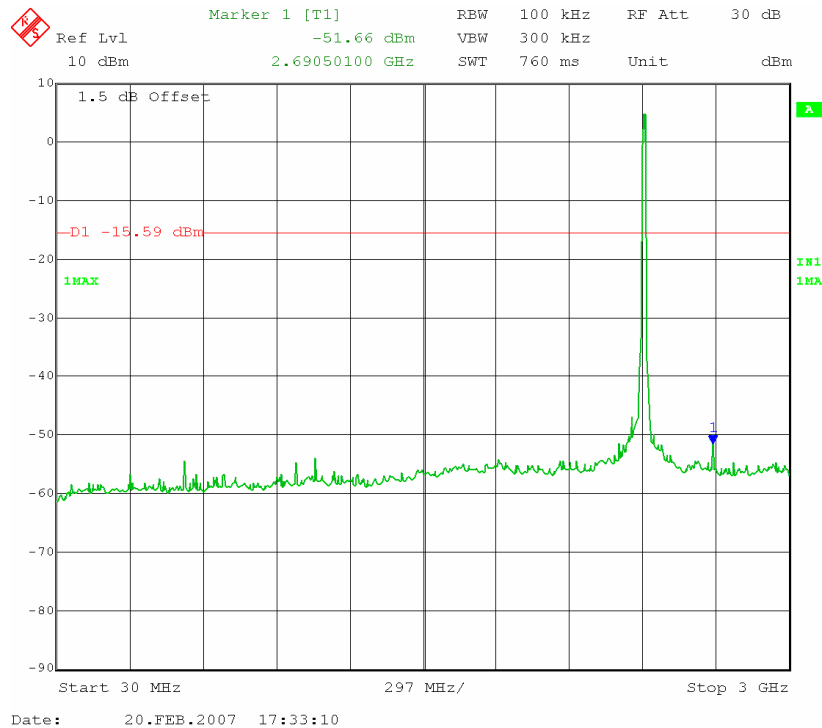
Serial# SLCN07020101-INT-001(FCC 15C)
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4.2.5 Spurious Emissions at Antenna Terminals

Requirement(s): 47 CFR §15.247(d)

Procedures: The conducted spurious emissions were measured conducted using a spectrum analyzer at low, mid, and hi channels. The limit was determined by attenuating 20 dB of the RF peak power output.

Results:



Plot 28: 802.11b Low Channel Conducted Spurious Emissions (1 of 4)

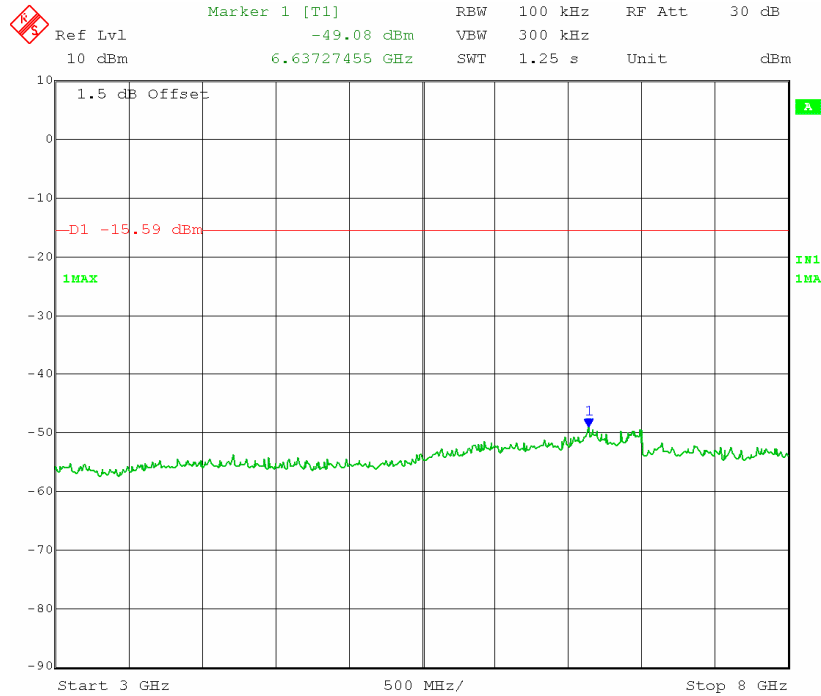
Note that emission above the limit is the fundamental.



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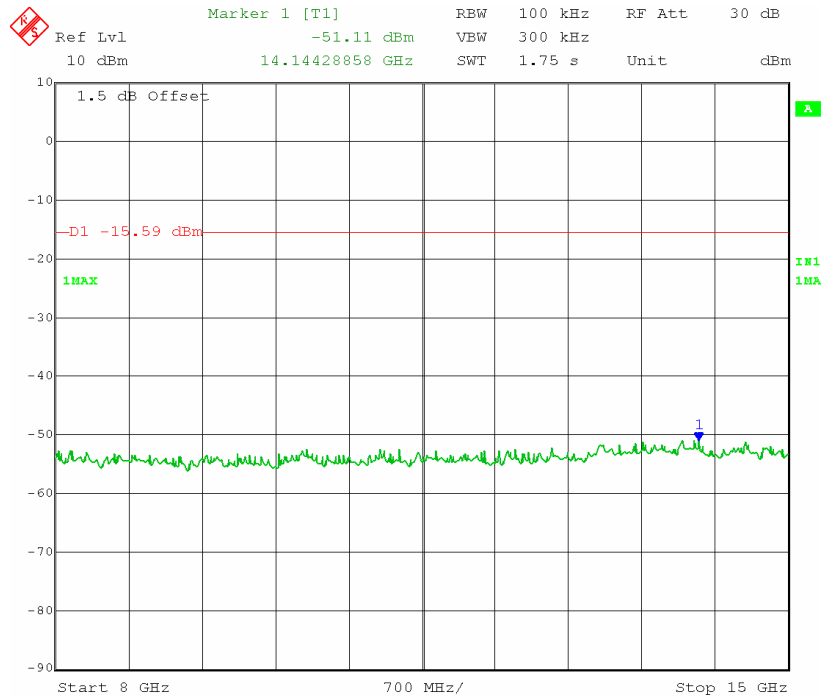
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
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Date: 20.FEB.2007 17:34:31

Plot 29: 802.11b Low Channel Conducted Spurious Emissions (2 of 4)



Date: 20.FEB.2007 17:35:27

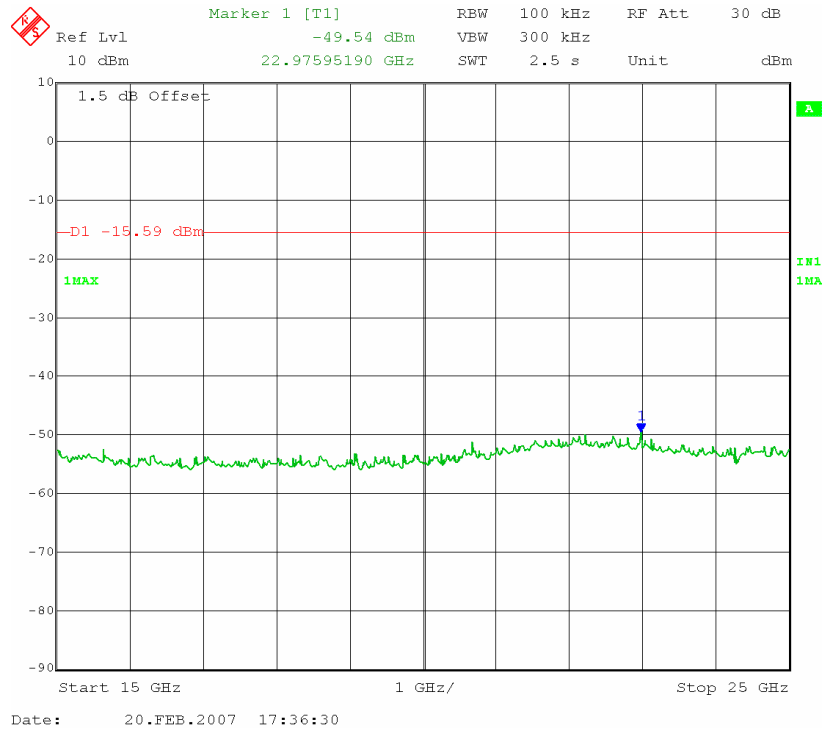
Plot 30: 802.11b Low Channel Conducted Spurious Emissions (3 of 4)



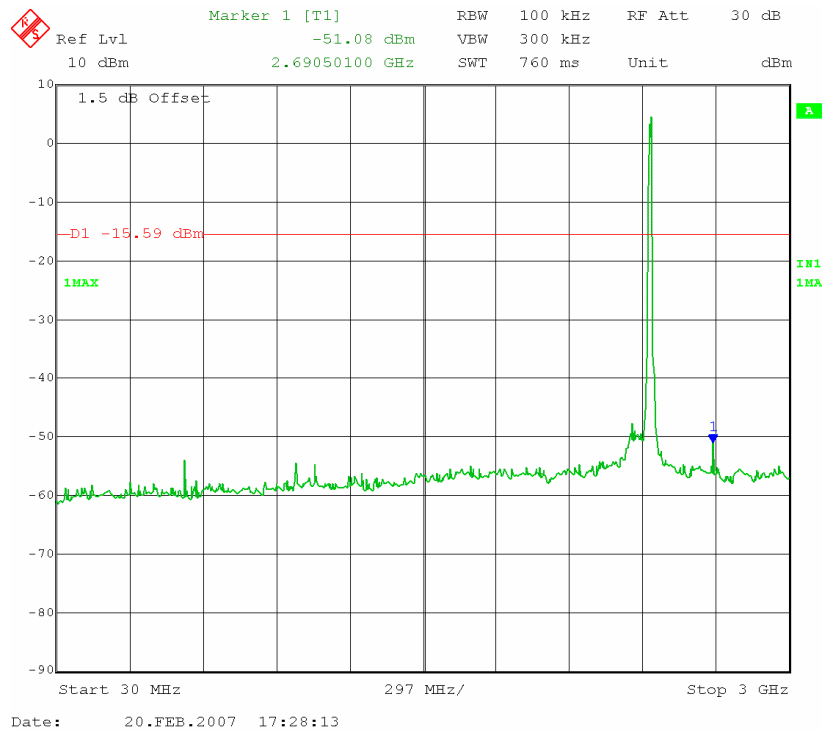
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Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Plot 31: 802.11b Low Channel Conducted Spurious Emissions (4 of 4)



Plot 32: 802.11b Mid Channel Conducted Spurious Emissions (1 of 4)

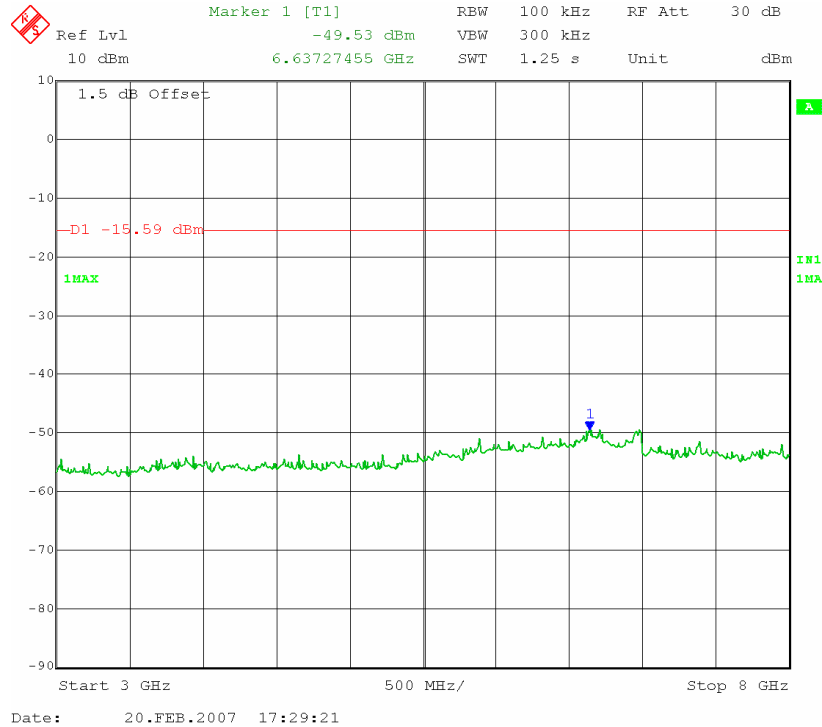
Note that emission above the limit is the fundamental.



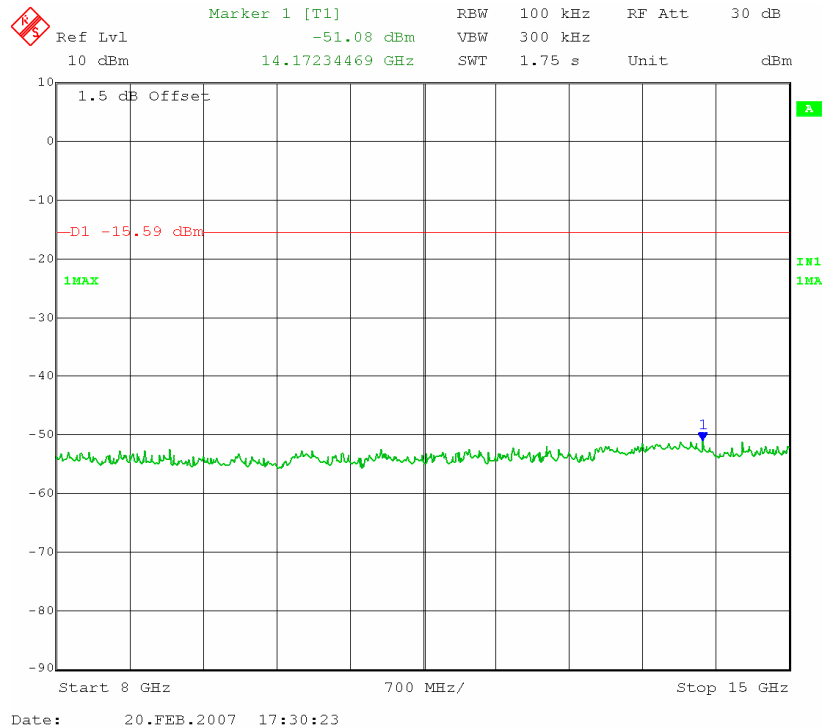
SIEMIC
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Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Plot 33: 802.11b Mid Channel Conducted Spurious Emissions (2 of 4)



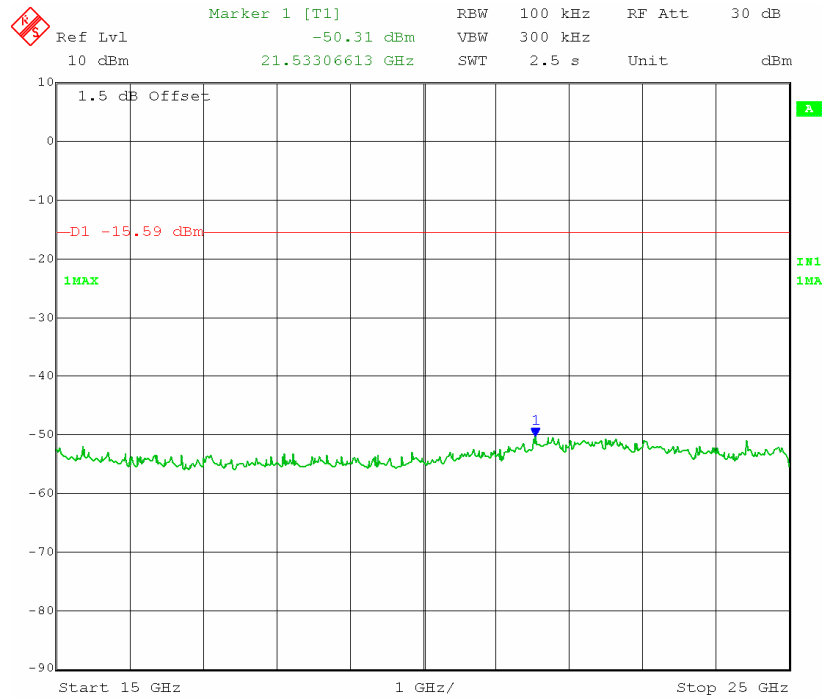
Plot 34: 802.11b Mid Channel Conducted Spurious Emissions (3 of 4)



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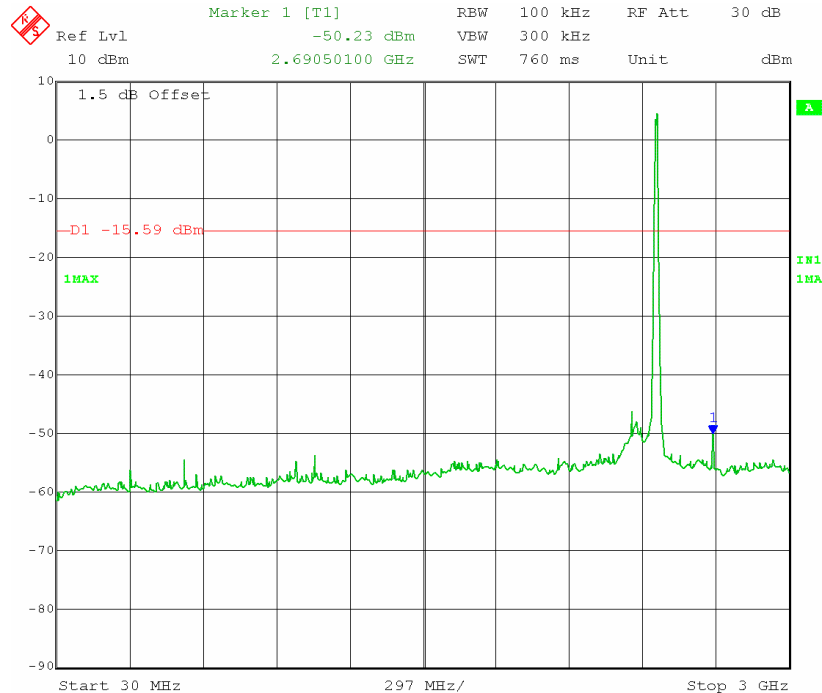
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 17:31:27

Plot 35: 802.11b Mid Channel Conducted Spurious Emissions (4 of 4)



Date: 20.FEB.2007 17:22:53

Plot 36: 802.11b High Channel Conducted Spurious Emissions (1 of 4)

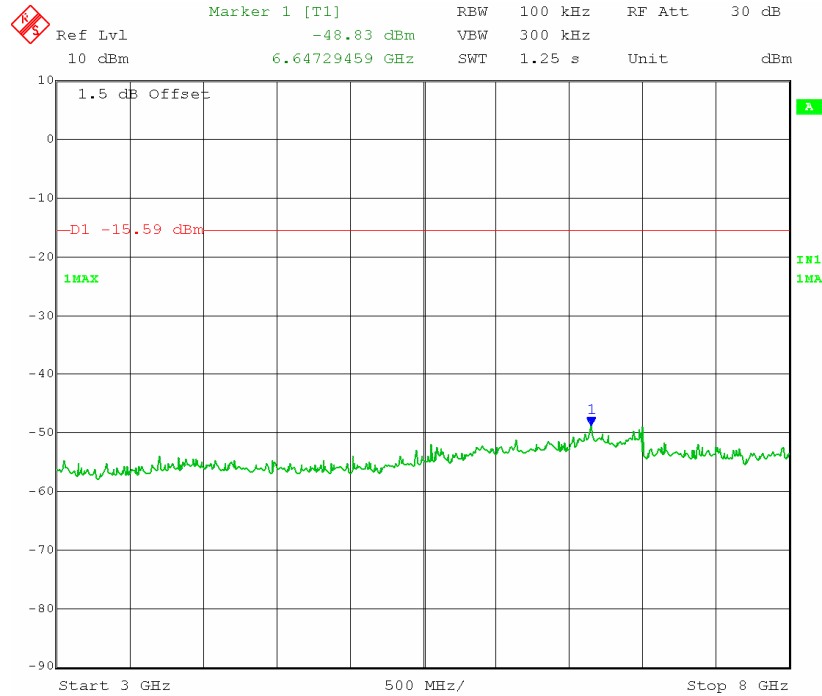
Note that emission above the limit is the fundamental.



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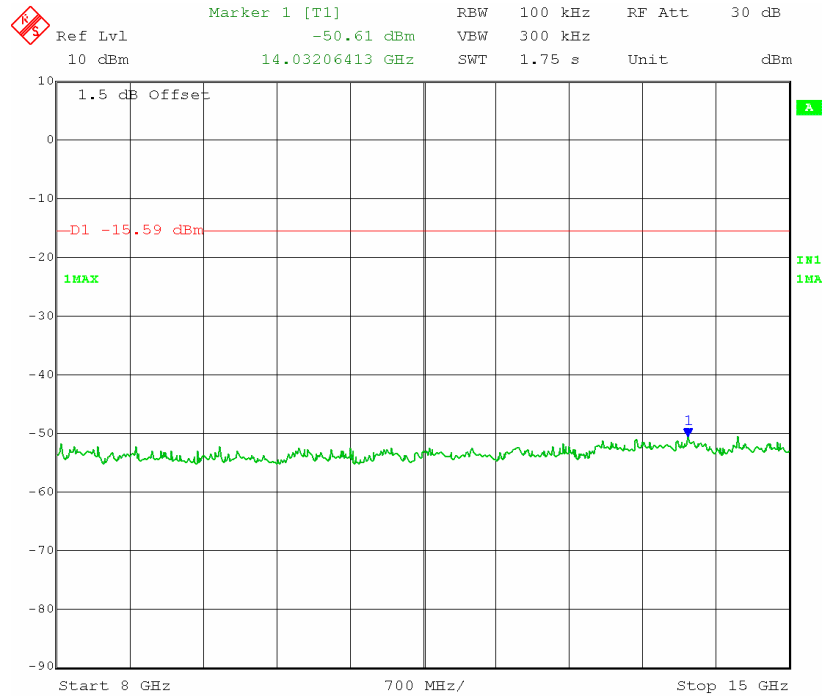
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 17:24:16

Plot 37: 802.11b High Channel Conducted Spurious Emissions (2 of 4)



Date: 20.FEB.2007 17:25:44

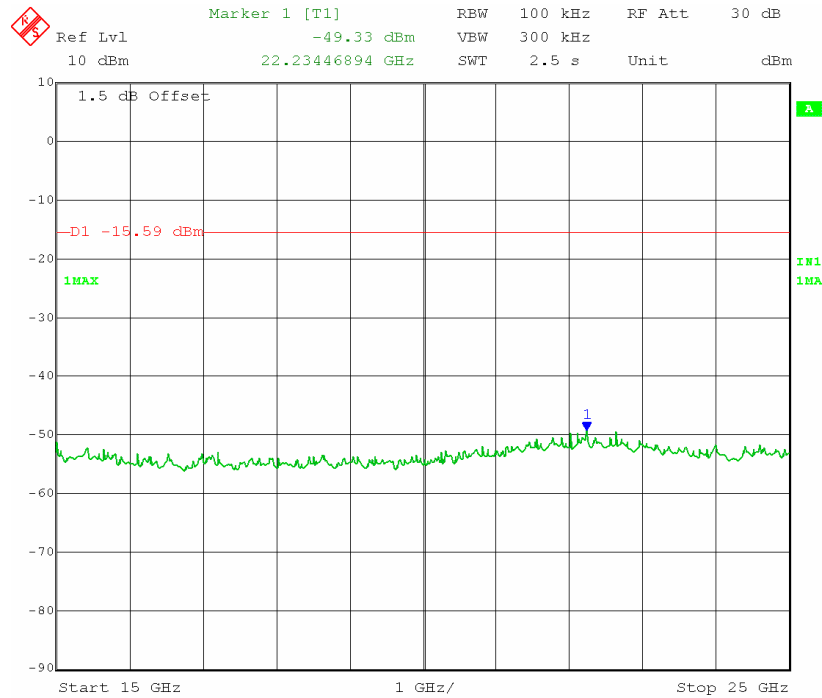
Plot 38: 802.11b High Channel Conducted Spurious Emissions (3 of 4)



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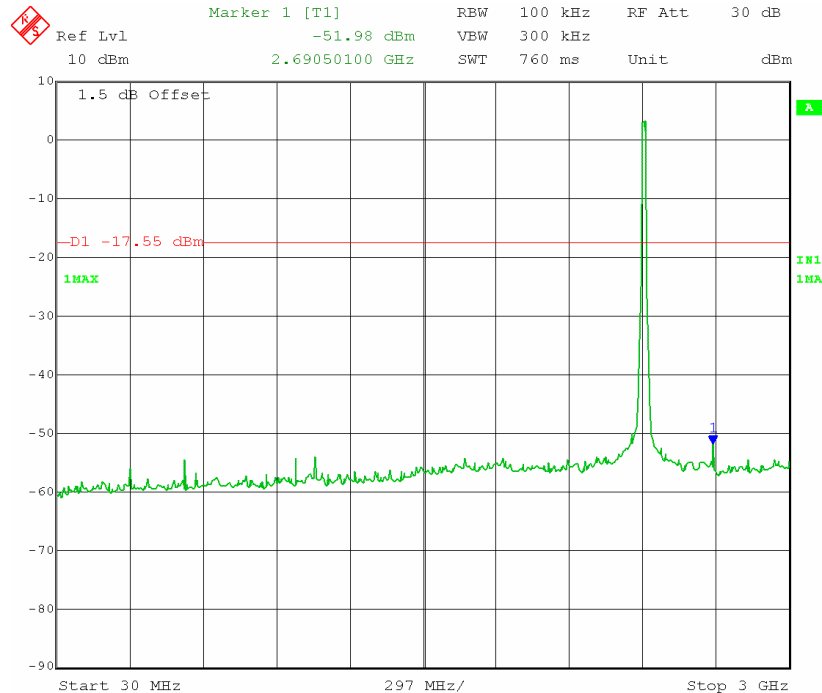
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 17:26:48

Plot 39: 802.11b High Channel Conducted Spurious Emissions (4 of 4)



Date: 20.FEB.2007 17:47:00

Plot 40: 802.11g Low Channel Conducted Spurious Emissions (1 of 4)

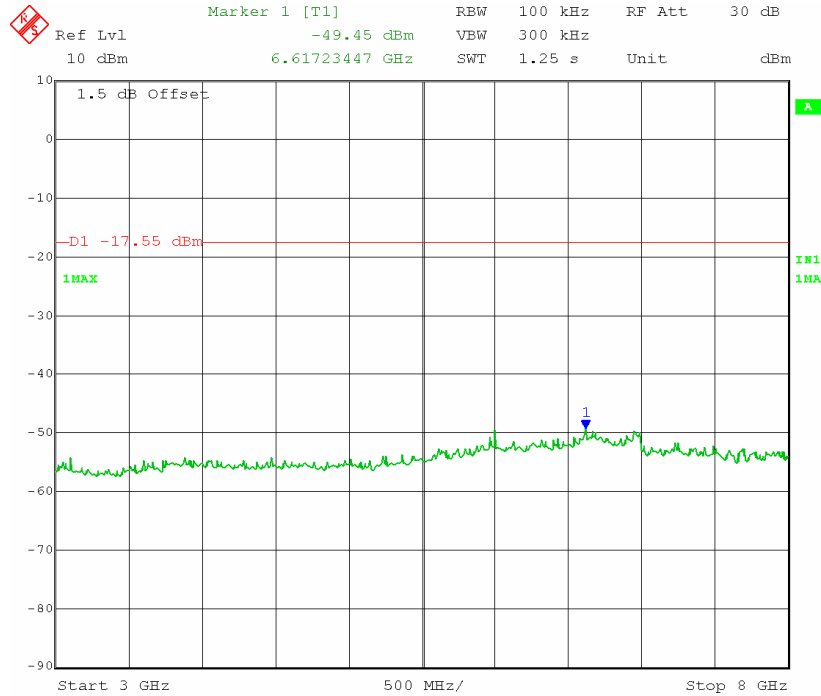
Note that emission above the limit is the fundamental.



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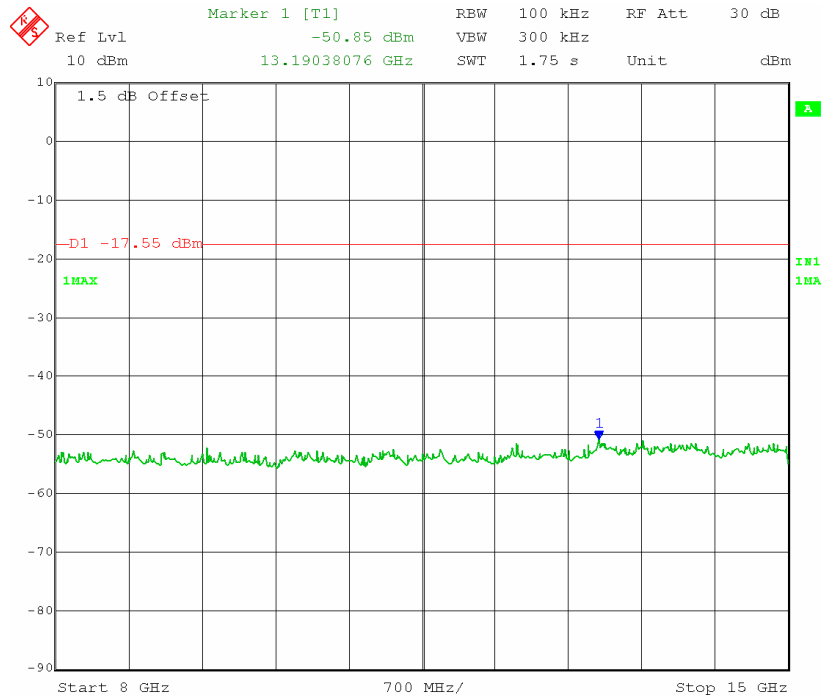
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 17:48:21

Plot 41: 802.11g Low Channel Conducted Spurious Emissions (2 of 4)



Date: 20.FEB.2007 17:55:49

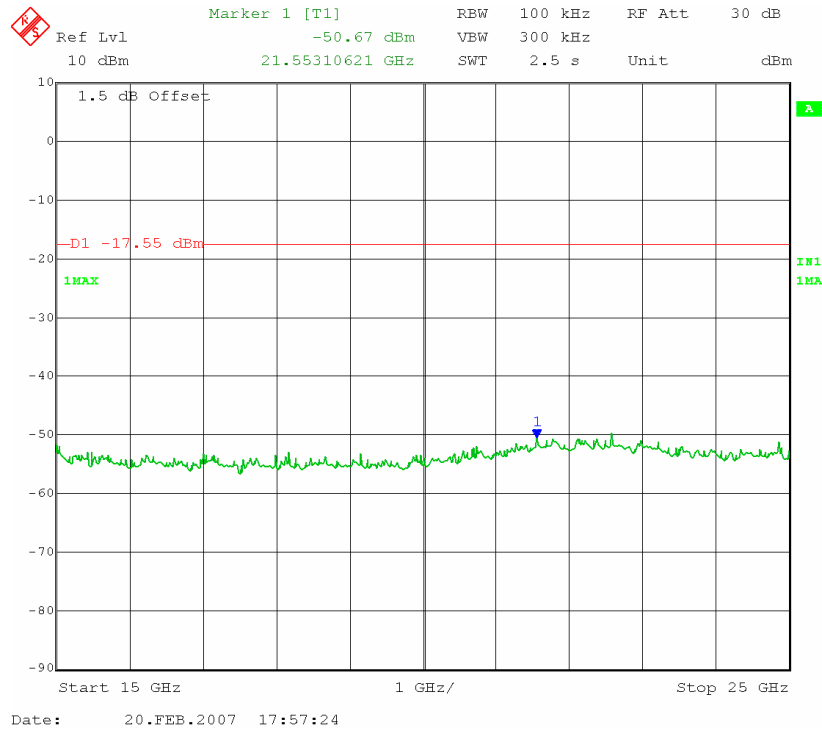
Plot 42: 802.11g Low Channel Conducted Spurious Emissions (3 of 4)



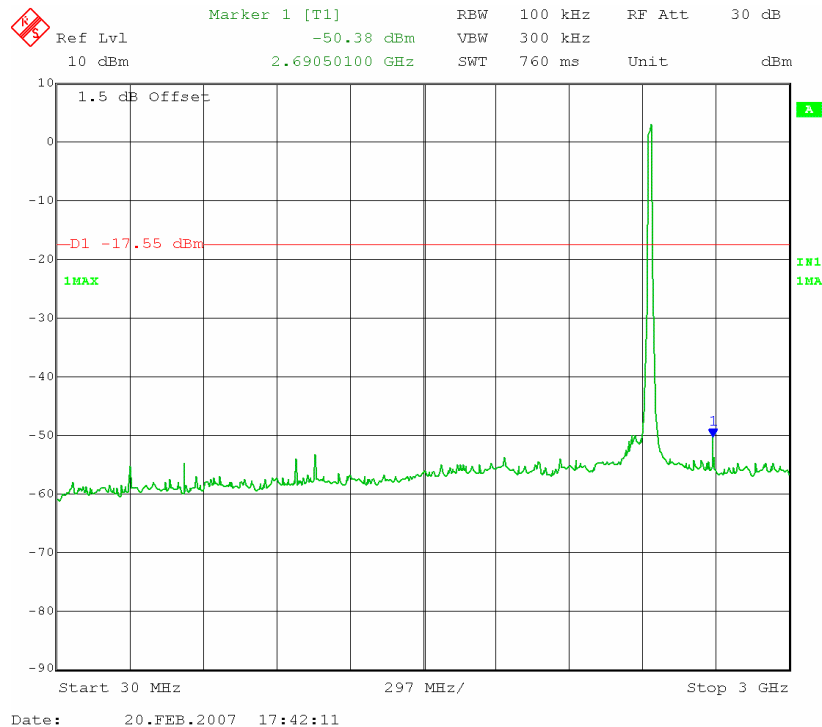
SIEMIC
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Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Plot 43: 802.11g Low Channel Conducted Spurious Emissions (4 of 4)



Plot 44: 802.11g Mid Channel Conducted Spurious Emissions (1 of 4)

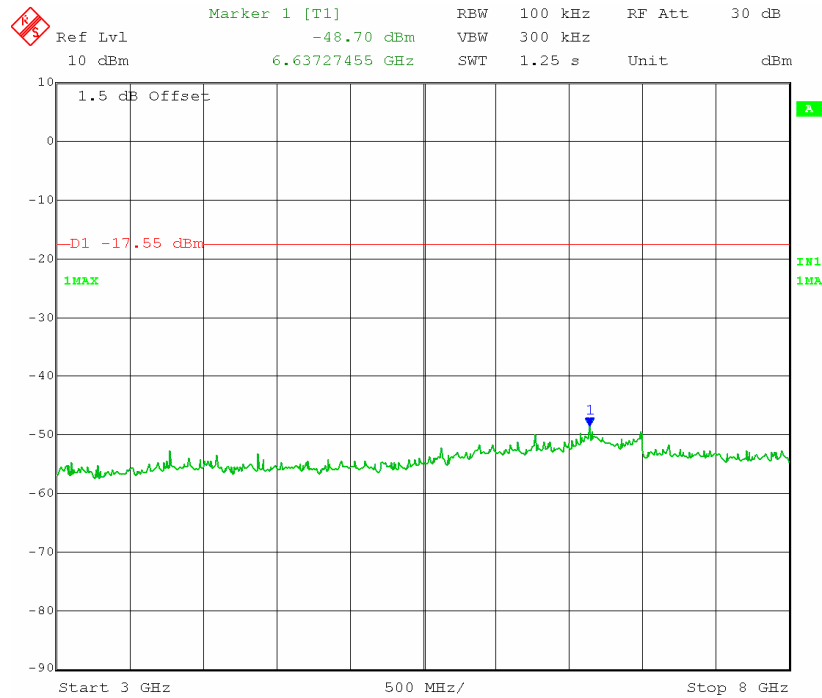
Note that emission above the limit is the fundamental.



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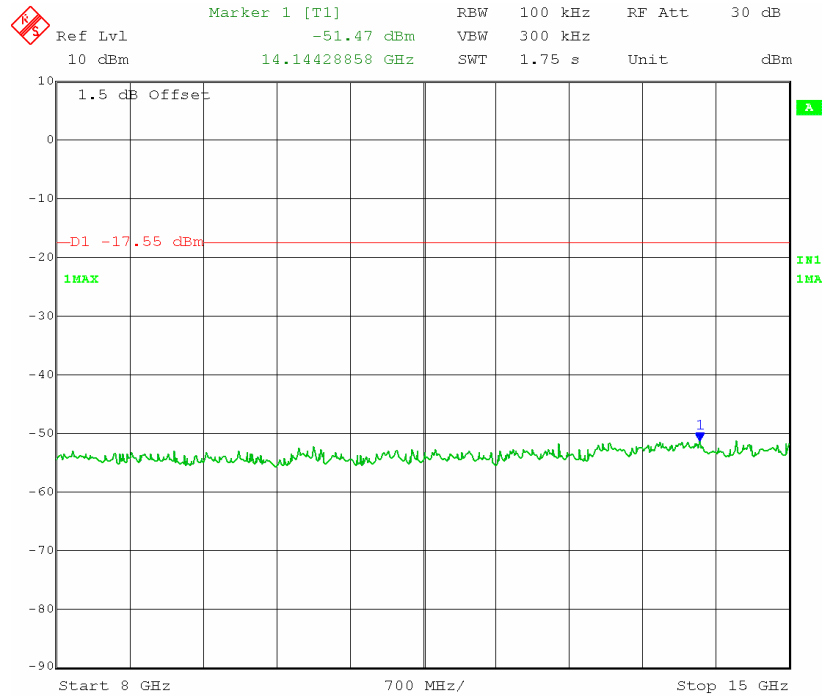
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 17:43:17

Plot 45: 802.11g Mid Channel Conducted Spurious Emissions (2 of 4)



Date: 20.FEB.2007 17:44:17

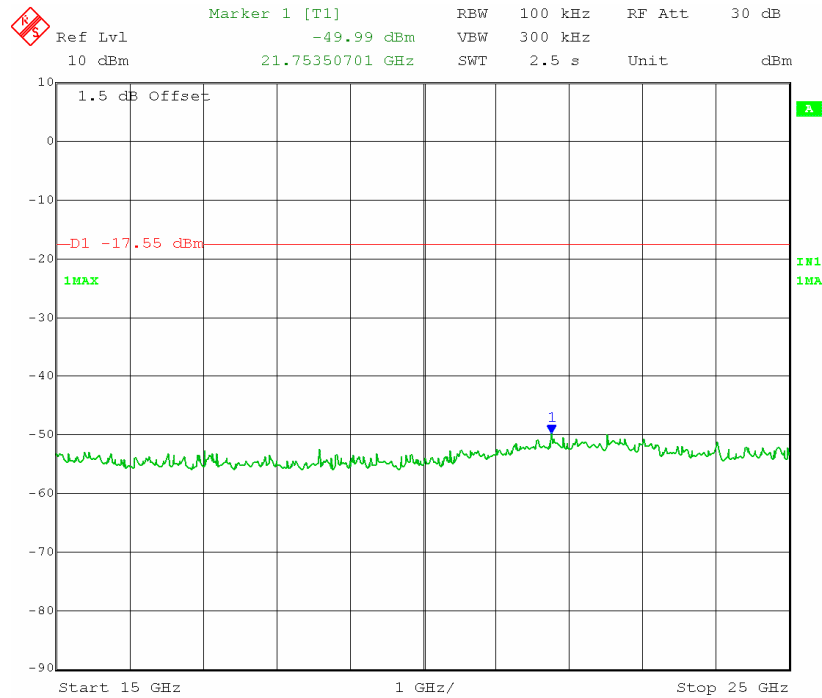
Plot 46: 802.11g Mid Channel Conducted Spurious Emissions (3 of 4)



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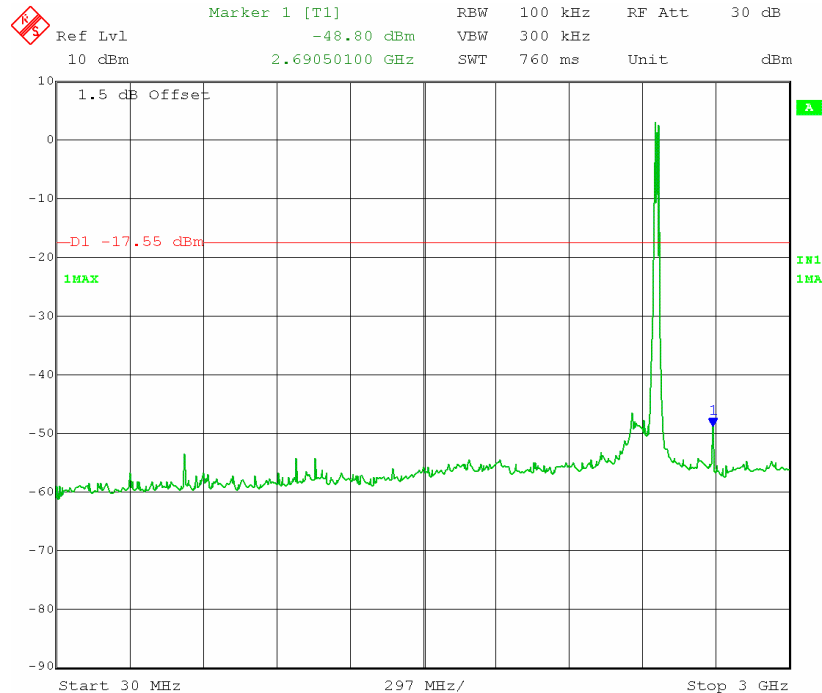
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 17:45:14

Plot 47: 802.11g Mid Channel Conducted Spurious Emissions (4 of 4)



Date: 20.FEB.2007 17:59:05

Plot 48: 802.11a Low Channel Conducted Spurious Emissions (1 of 4)

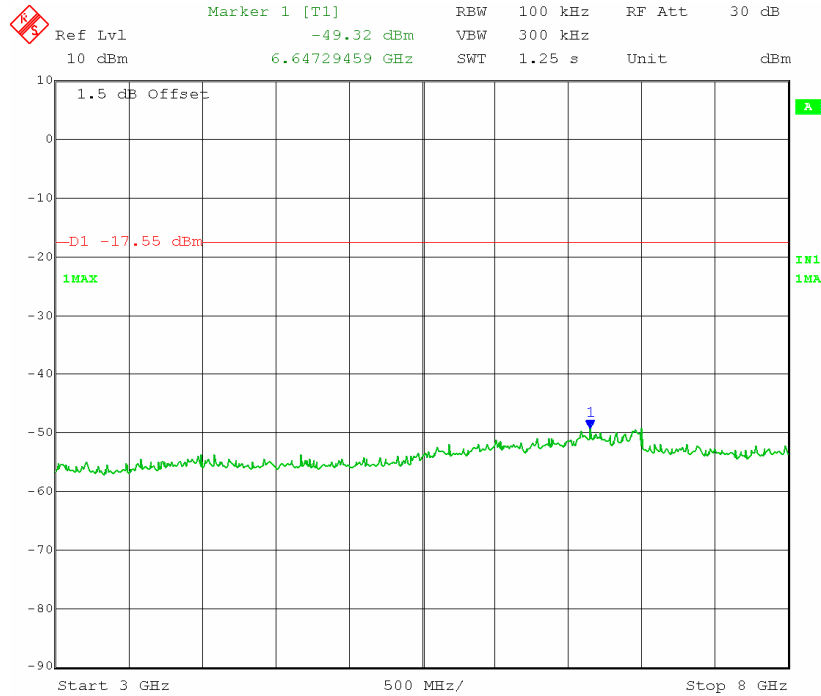
Note that emission above the limit is the fundamental.



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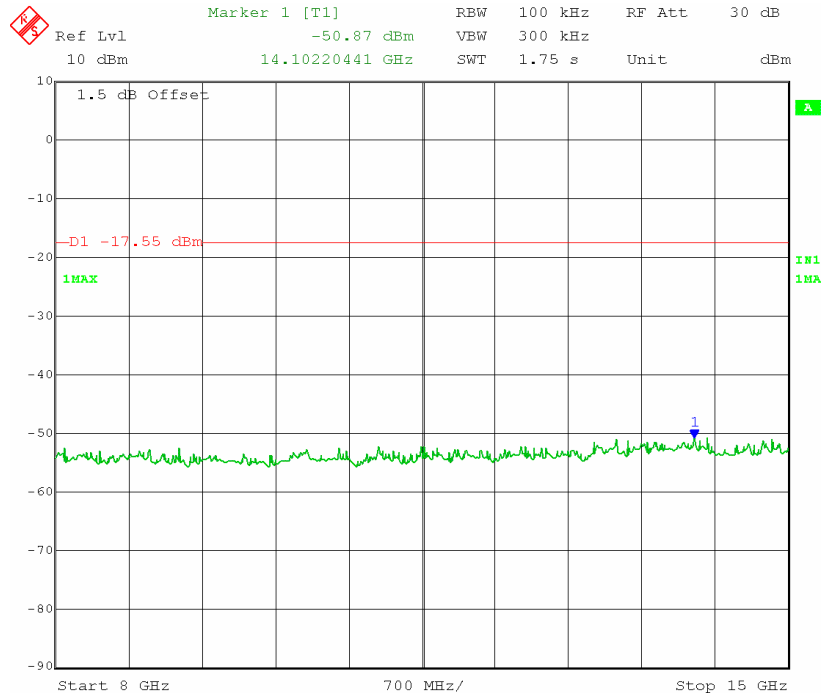
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 18:00:41

Plot 49: 802.11g High Channel Conducted Spurious Emissions (2 of 4)



Date: 20.FEB.2007 18:01:54

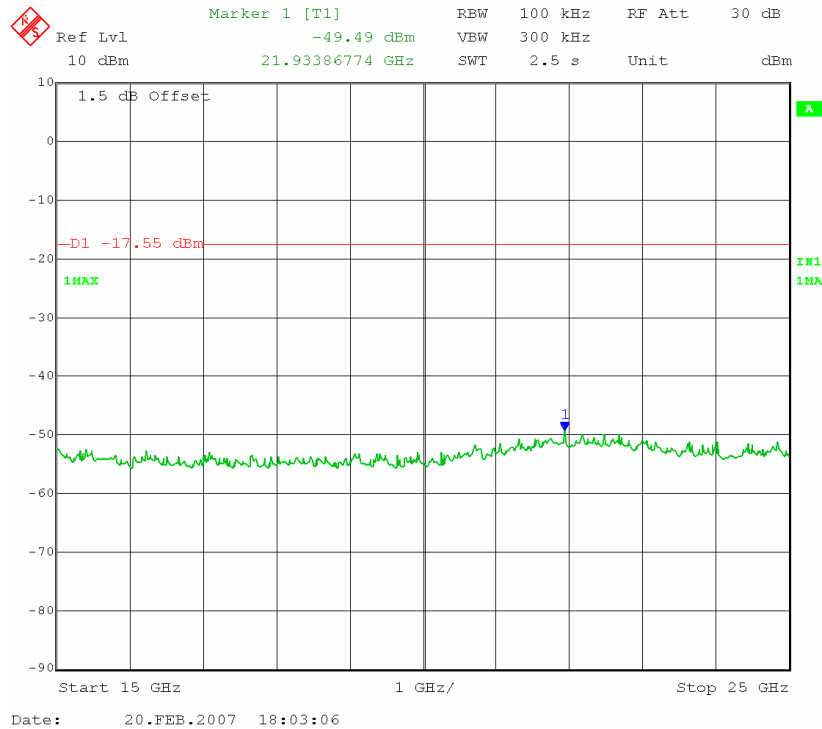
Plot 50: 802.11g High Channel Conducted Spurious Emissions (3 of 4)



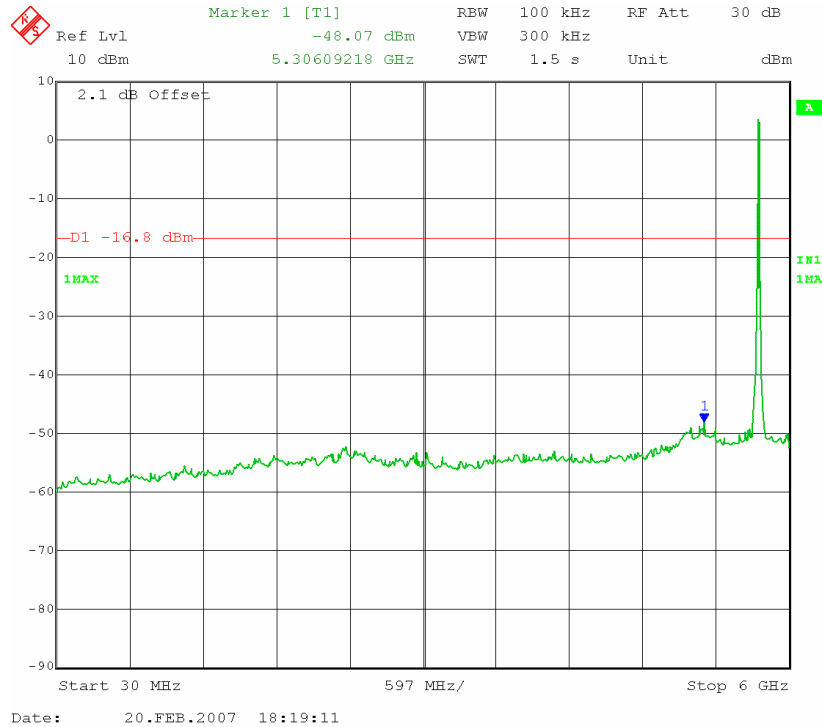
SIEMIC
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Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Plot 51: 802.11g High Channel Conducted Spurious Emissions (4 of 4)



Plot 52: 802.11a Low Channel Conducted Spurious Emissions (1 of 4)

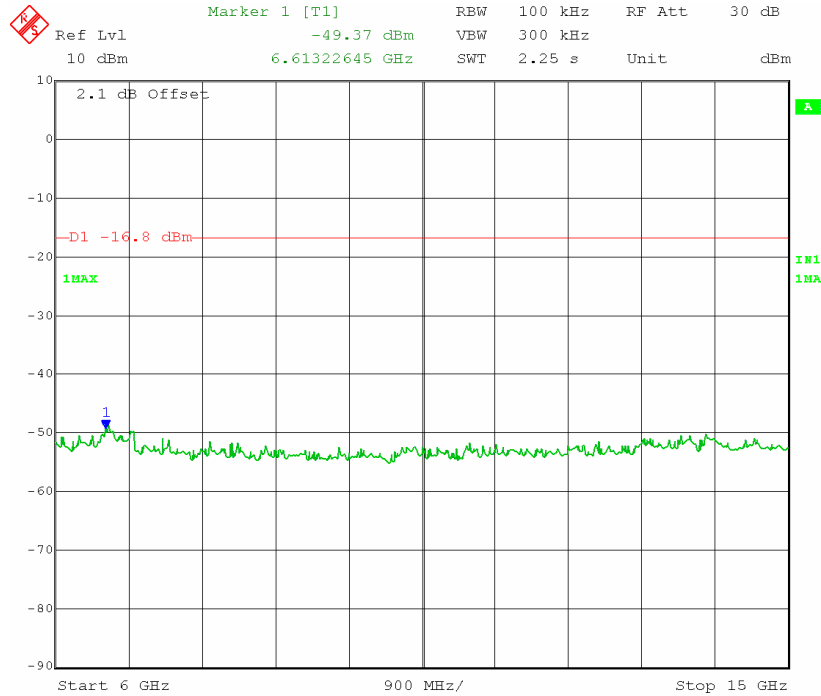
Note that emission above the limit is the fundamental.



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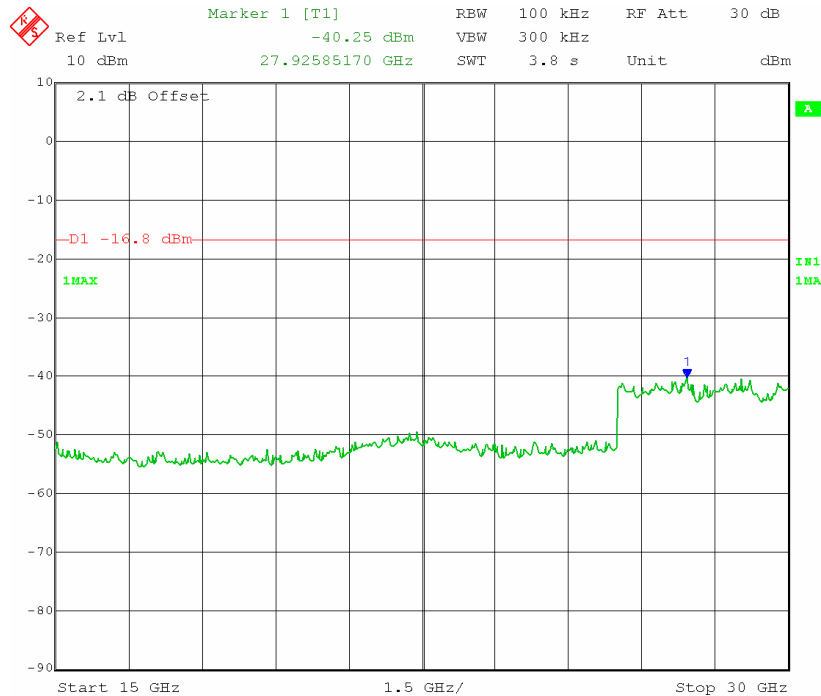
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 18:11:26

Plot 53: 802.11a Low Channel Conducted Spurious Emissions (2 of 4)



Date: 20.FEB.2007 18:12:40

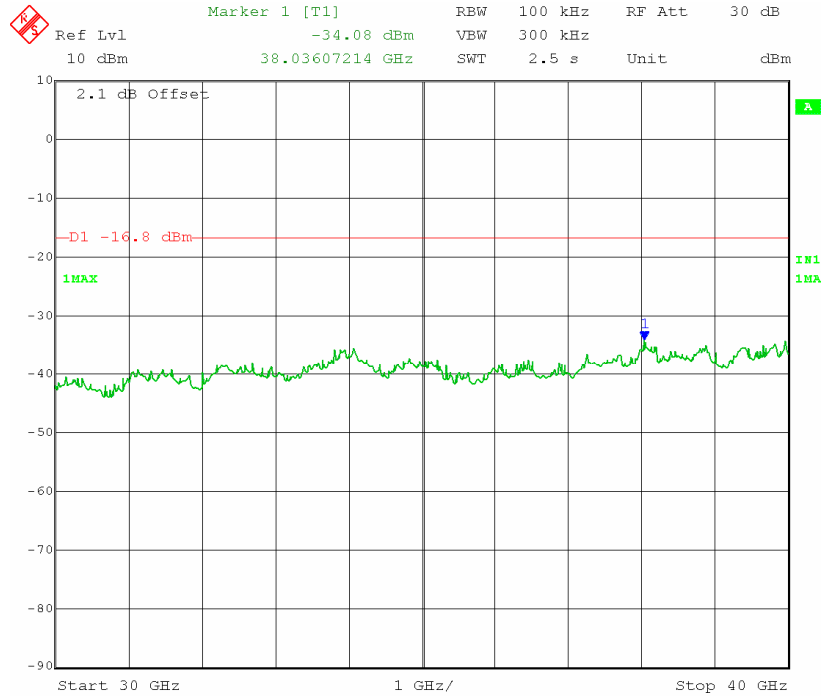
Plot 54: 802.11a Low Channel Conducted Spurious Emissions (3 of 4)



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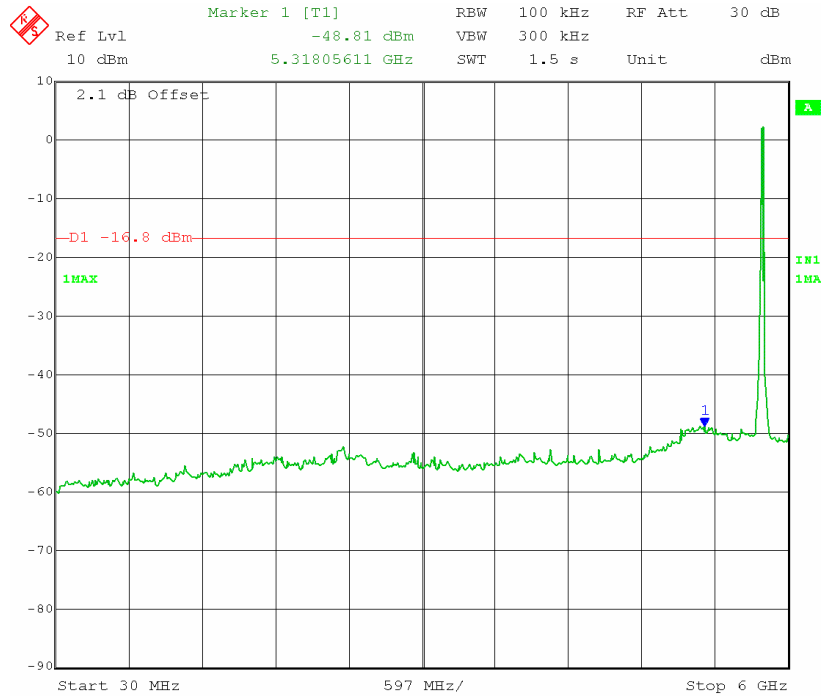
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 18:13:42

Plot 55: 802.11a Low Channel Conducted Spurious Emissions (4 of 4)



Date: 20.FEB.2007 18:16:06

Plot 56: 802.11a Mid Channel Conducted Spurious Emissions (1 of 4)

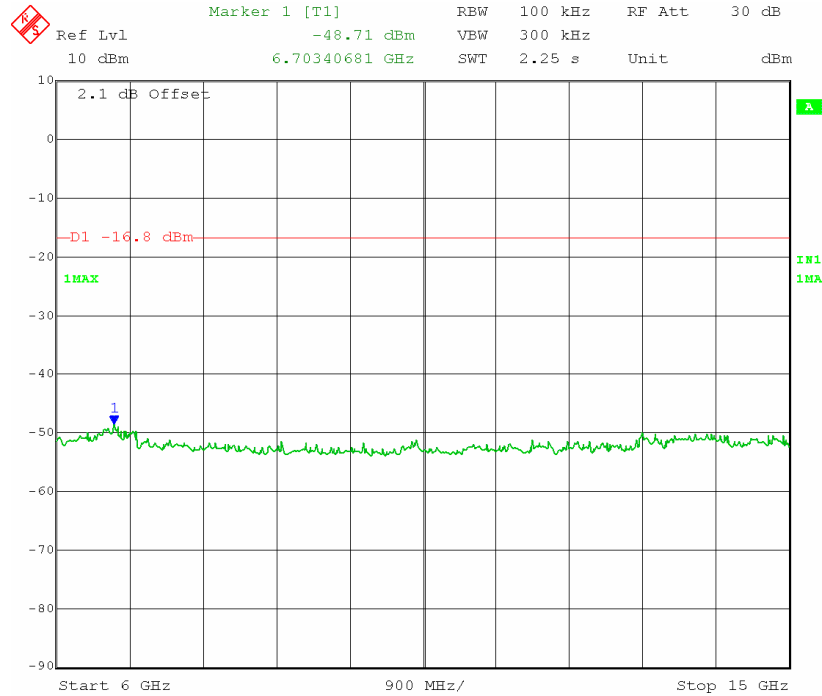
Note that emission above the limit is the fundamental.



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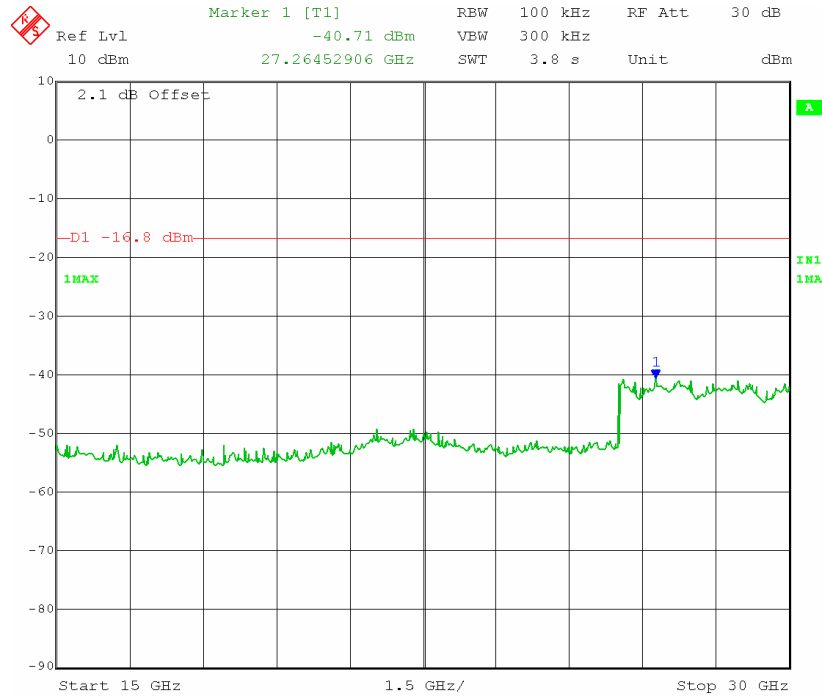
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 18:22:49

Plot 57: 802.11a Mid Channel Conducted Spurious Emissions (2 of 4)



Date: 20.FEB.2007 18:24:15

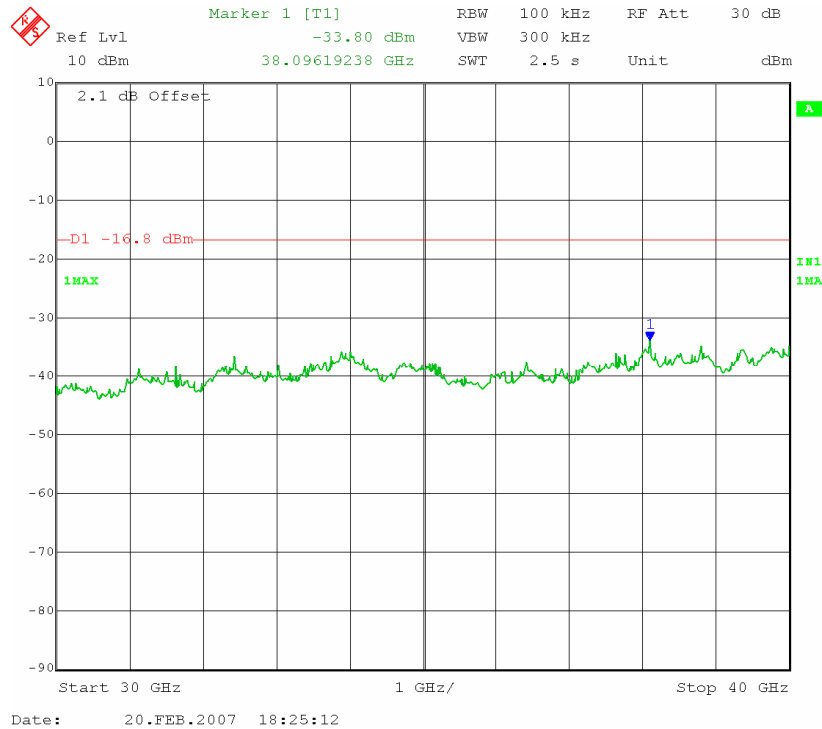
Plot 58: 802.11a Mid Channel Conducted Spurious Emissions (3 of 4)



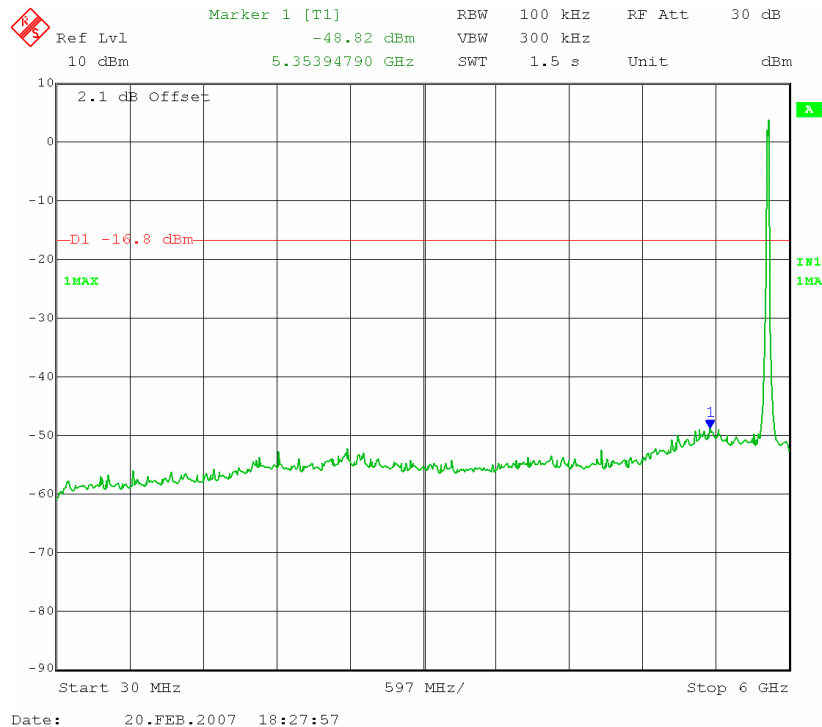
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Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
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To: 47 CFR 15.247:2006

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Plot 59: 802.11a Mid Channel Conducted Spurious Emissions (4 of 4)



Plot 60: 802.11a High Channel Conducted Spurious Emissions (1 of 4)

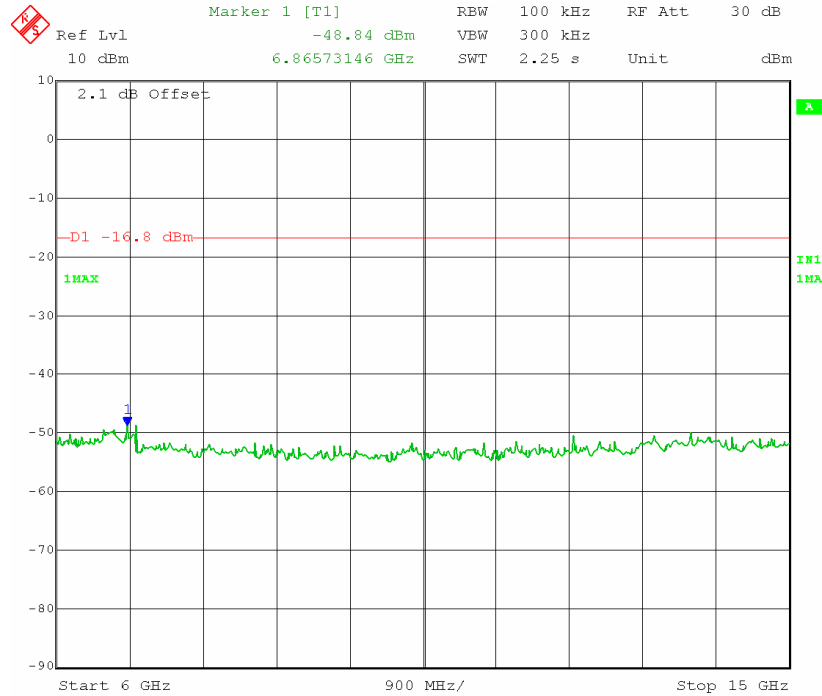
Note that emission above the limit is the fundamental.



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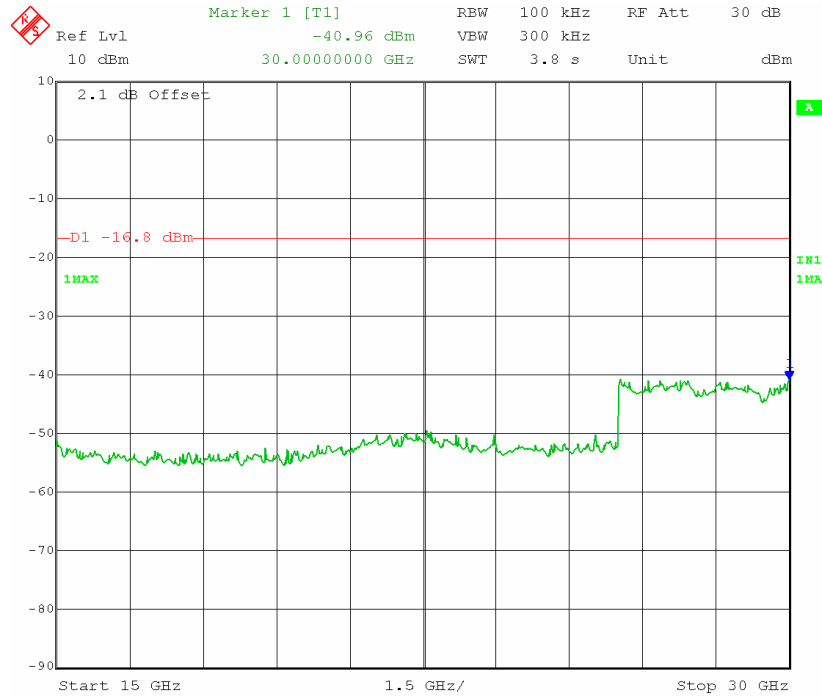
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Date: 20.FEB.2007 18:29:22

Plot 61: 802.11a High Channel Conducted Spurious Emissions (2 of 4)



Date: 20.FEB.2007 18:30:28

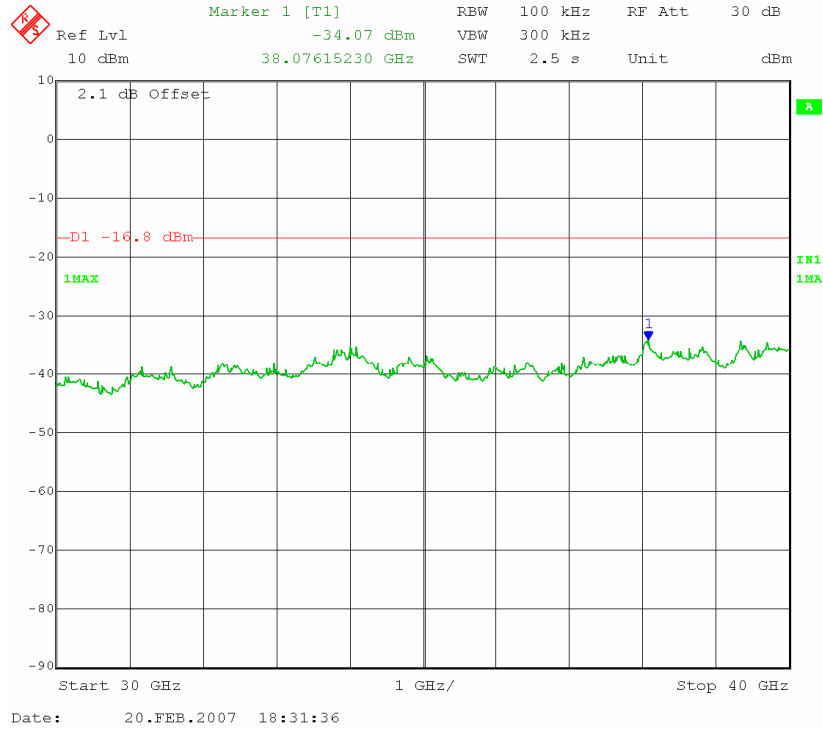
Plot 62: 802.11a High Channel Conducted Spurious Emissions (3 of 4)



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Title: FCC Test report for Intelicis Enterprise Dual
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Plot 63: 802.11a High Channel Conducted Spurious Emissions (4 of 4)

Tested By: Snell Leong

Date Tested: 20 February 2007



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Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
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4.2.6 Radiated Spurious Emissions < 1 GHz

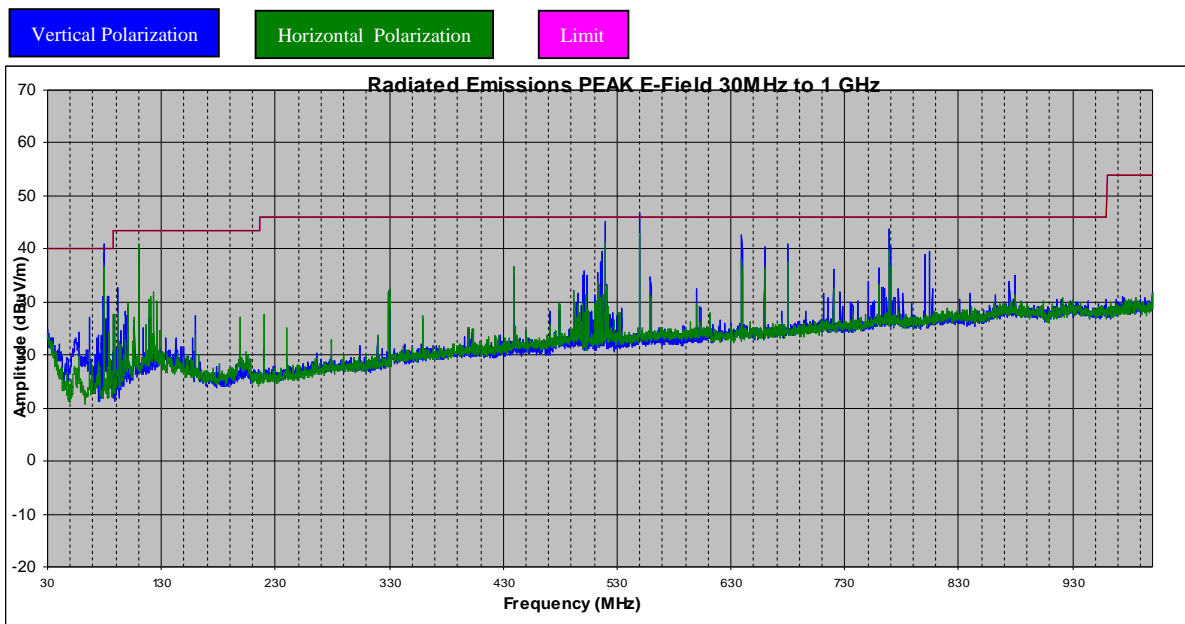
Requirement(s): 47 CFR §15.247(d)

Procedures: Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set to transmit at mid channel. Note that setting the channel other than mid, the spurious emissions are the same.

The limit is converted from microvolts/meter to decibel microvolts/meter.

Sample Calculation: Corrected Amplitude = Raw Amplitude(dBuV/m) + ACF(dB) + Cable Loss(dB)

Results:



Radiated Emission Plot (Transmit Mode)

Radiated Emissions Data (Transmit Mode)

Frequency	Azimuth	Measure	Antenna Polarity	Antenna Height	Raw Amplitude @ 3m	ACF	CBL loss	Corrected Amplitude @ 3m	Limit @ 3m	Delta
(MHz)	(degrees)	(Avg/QP)	(H/V)	(m)	(dBuV/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)
520.00	180	QP	H	1	24.00	18.2	1.8	44	46	-2.00
520.00	200	QP	V	1	25.90	17.8	1.8	45.5	46	-0.50
550.00	0	QP	H	2	24.80	18.6	1.8	45.2	46	-0.80
550.00	0	QP	V	1	25.30	18.2	1.8	45.3	46	-0.70
640.00	180	QP	H	2	18.10	19.6	1.9	39.6	46	-6.40
640.00	0	QP	V	1	22.00	19.5	1.9	43.4	46	-2.60
770.00	270	QP	H	1	21.40	20.9	2	44.3	46	-1.70
770.00	0	QP	V	1	21.60	20.8	2	44.4	46	-1.60
80.00	0	QP	H	1	28.50	8.2	0.7	37.4	40	-2.60
80.00	270	QP	V	1	31.50	7	0.7	39.2	40	-0.80



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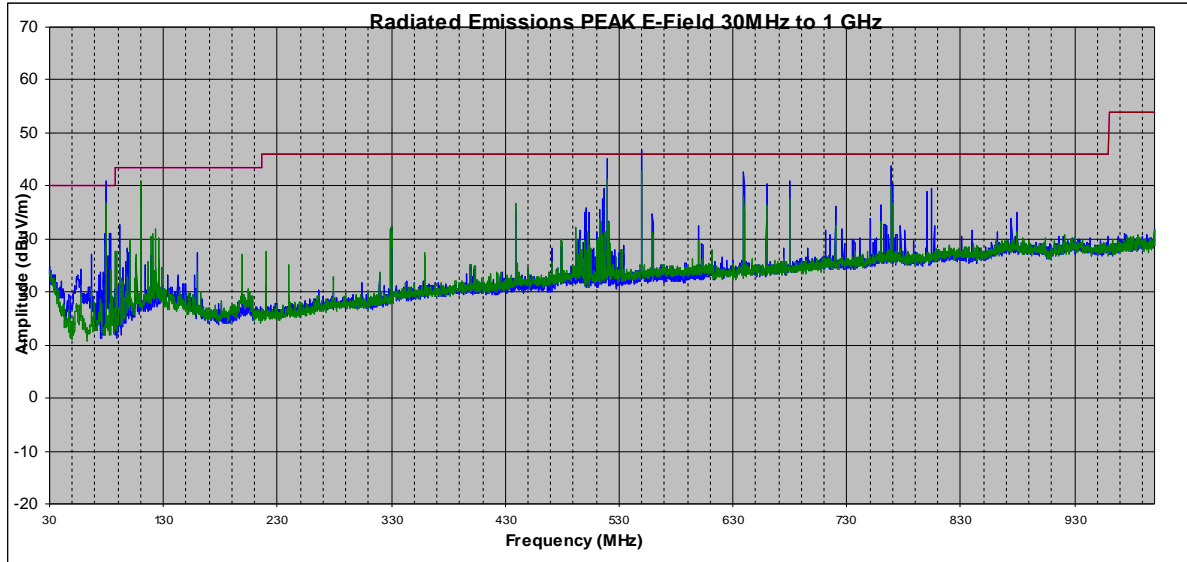
Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
To: 47 CFR 15.247:2006

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Vertical Polarization

Horizontal Polarization

Limit



Radiated Emissions Plot (Standby Mode)

Radiated Emissions Data (Standby Mode)

Frequency	Azimuth	Measure	Antenna Polarity	Antenna Height	Raw Amplitude @ 3m	ACF	CBL loss	Corrected Amplitude @ 3m	Limit @ 3m	Delta
(MHz)	(degrees)	(Avg/QP)	(H/V)	(m)	(dBuV/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)
520.00	180	QP	H	1	24.20	18.2	1.8	44.2	46	-1.80
520.00	200	QP	V	1	25.50	17.8	1.8	45.1	46	-0.90
550.00	0	QP	H	2	24.60	18.6	1.8	45	46	-1.00
550.00	0	QP	V	1	25.30	18.2	1.8	45.3	46	-0.70
640.00	180	QP	H	2	18.00	19.6	1.9	39.5	46	-6.50
640.00	0	QP	V	1	22.20	19.5	1.9	43.6	46	-2.40
770.00	270	QP	H	1	21.60	20.9	2	44.5	46	-1.50
770.00	0	QP	V	1	21.70	20.8	2	44.5	46	-1.50
80.00	0	QP	H	1	28.30	8.2	0.7	37.2	40	-2.80
80.00	270	QP	V	1	31.20	7	0.7	38.9	40	-1.10

Tested By: Snell Leong

Date Tested: 12 February 2007



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Title: FCC Test report for Intelicis Enterprise Dual
Radio Access Point, mode : CEDAR 860AG
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4.2.7 Radiated Spurious Emissions > 1 GHz

Requirement(s): 47 CFR §15.247(d)

Procedures: Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. Investigated up to 10th harmonic of the operating frequency.

Note: During Standby Mode investigation, there were no emissions found within 20 dB of the limit.

Sample Calculation:

EUT Field Strength = Raw Amplitude(dBuV/m) – Amplifier Gain(dB) + Antenna Factor(dB) + Cable Loss(dB) + Filter Attenuation(dB, if used)

Results:

$f_o = 2.412$ GHz (Low Channel); 802.11b

Frequency (GHz)	Azimuth (Degrees)	Antenna Polarity (H/V)	Height (m)	Raw Amp. @ 3m (dBuV)	Pre Amp. (dB)	Ant.Corr. Factor (dB)	Cable Loss (dB)	EUT Final Field Strength (dBuV/m)	Limit @ 3m (dBuV/m)	Delta (dBuV/m)	Detector (pk/avg)
4.824	0	H	1.3	56.5	32.54	33.97	3.46	51.85	74.00	-22.15	pk
4.824	0	H	1.3	42.2	32.54	33.97	3.46	37.55	54.00	-16.45	avg
4.824	90	V	1	68.5	32.54	33.97	3.46	63.85	74.00	-10.15	pk
4.824	90	V	1	53.9	32.54	33.97	3.46	49.25	54.00	-4.75	avg
7.236	90	H	1.3	53.6	32.45	37.01	4.47	53.10	74.00	-20.90	pk
7.236	90	H	1.3	40.2	32.45	37.01	4.47	39.70	54.00	-14.30	avg
7.236	90	V	1	58.8	32.45	37.01	4.47	58.30	74.00	-15.70	pk
7.236	90	V	1	42.8	32.45	37.01	4.47	42.30	54.00	-11.70	avg
9.648	180	H	1	52.8	32.43	40.04	5.47	56.33	74.00	-17.67	pk
9.648	180	H	1	38.1	32.43	40.04	5.47	41.63	54.00	-12.37	avg
9.648	0	V	1	53	32.43	40.04	5.47	56.53	74.00	-17.47	pk
9.648	0	V	1	38.3	32.43	40.04	5.47	41.83	54.00	-12.17	avg

Note: Emissions after 4th harmonic measured noise floor.



$f_0 = 2.437$ GHz (Mid Channel); 802.11b

Frequency (GHz)	Azimuth (Degrees)	Antenna Polarity (H/V)	Height (m)	Raw Amp. @ 3m (dBuV)	Pre Amp. (dB)	Ant.Corr. Factor (dB)	Cable Loss (dB)	EUT Final Field Strength (dBuV/m)	Limit @ 3m (dBuV/m)	Delta (dBuV/m)	Detector (pk/avg)
4.874	0	H	1.3	57.1	32.55	34.08	3.49	52.58	74.00	-21.42	pk
4.874	0	H	1.3	42.6	32.55	34.08	3.49	38.08	54.00	-15.92	avg
4.874	90	V	1	69.2	32.55	34.08	3.49	64.68	74.00	-9.32	pk
4.874	90	V	1	54.5	32.55	34.08	3.49	49.98	54.00	-4.02	avg
7.311	90	H	1.3	54.1	32.47	37.11	4.50	53.70	74.00	-20.30	pk
7.311	90	H	1.3	40.6	32.47	37.11	4.50	40.20	54.00	-13.80	avg
7.311	90	V	1	59.4	32.47	37.11	4.50	59.00	74.00	-15.00	pk
7.311	90	V	1	43.3	32.47	37.11	4.50	42.90	54.00	-11.10	avg
9.748	180	H	1	53.3	32.54	40.19	5.48	56.90	74.00	-17.10	pk
9.748	180	H	1	38.5	32.54	40.19	5.48	42.10	54.00	-11.90	avg
9.748	0	V	1	53.4	32.54	40.19	5.48	57.00	74.00	-17.00	pk
9.748	0	V	1	38.7	32.54	40.19	5.48	42.30	54.00	-11.70	avg

Note: Emissions after 4th harmonic measured noise floor.

$f_0 = 2.462$ GHz (High Channel); 802.11b

Frequency (GHz)	Azimuth (Degrees)	Antenna Polarity (H/V)	Height (m)	Raw Amp. @ 3m (dBuV)	Pre Amp. (dB)	Ant.Corr. Factor (dB)	Cable Loss (dB)	EUT Final Field Strength (dBuV/m)	Limit @ 3m (dBuV/m)	Delta (dBuV/m)	Detector (pk/avg)
4.924	0	H	1.3	57.63	32.55	34.18	3.51	53.23	74.00	-20.77	pk
4.924	0	H	1.3	43.1	32.55	34.18	3.51	38.70	54.00	-15.30	avg
4.924	90	V	1	69.87	32.55	34.18	3.51	65.47	74.00	-8.53	pk
4.924	90	V	1	55	32.55	34.18	3.51	50.60	54.00	-3.40	avg
7.386	90	H	1.3	54.7	32.48	37.20	4.52	54.40	74.00	-19.60	pk
7.386	90	H	1.3	41	32.48	37.20	4.52	40.70	54.00	-13.30	avg
7.386	90	V	1	60	32.48	37.20	4.52	59.70	74.00	-14.30	pk
7.386	90	V	1	43.7	32.48	37.20	4.52	43.40	54.00	-10.60	avg
9.848	180	H	1	53.9	32.65	40.33	5.50	57.54	74.00	-16.46	pk
9.848	180	H	1	38.9	32.65	40.33	5.50	42.54	54.00	-11.46	avg
9.848	0	V	1	54.1	32.65	40.33	5.50	57.74	74.00	-16.26	pk
9.848	0	V	1	39.1	32.65	40.33	5.50	42.74	54.00	-11.26	avg

Note: Emissions after 4th harmonic measured noise floor.



$f_0 = 2.412$ GHz (Low Channel); 802.11g

Frequency (GHz)	Azimuth (Degrees)	Antenna Polarity (H/V)	Height (m)	Raw Amp. @ 3m (dBuV)	Pre Amp. (dB)	Ant.Corr. Factor (dB)	Cable Loss (dB)	EUT Final Field Strength (dBuV/m)	Limit @ 3m (dBuV/m)	Delta (dBuV/m)	Detector (pk/avg)
4.824	0	H	1.3	55.2	32.54	33.97	3.46	50.55	74.00	-23.45	pk
4.824	0	H	1.3	45.2	32.54	33.97	3.46	40.55	54.00	-13.45	avg
4.824	90	V	1	71.5	32.54	33.97	3.46	66.85	74.00	-7.15	pk
4.824	90	V	1	55.5	32.54	33.97	3.46	50.85	54.00	-3.15	avg
7.236	90	H	1.3	52.1	32.45	37.01	4.47	51.60	74.00	-22.40	pk
7.236	90	H	1.3	35.5	32.45	37.01	4.47	35.00	54.00	-19.00	avg
7.236	90	V	1	64.7	32.45	37.01	4.47	64.20	74.00	-9.80	pk
7.236	90	V	1	45.2	32.45	37.01	4.47	44.70	54.00	-9.30	avg
9.648	180	H	1	57.1	32.43	40.04	5.47	60.63	74.00	-13.37	pk
9.648	180	H	1	36.7	32.43	40.04	5.47	40.23	54.00	-13.77	avg
9.648	0	V	1	51.8	32.43	40.04	5.47	55.33	74.00	-18.67	pk
9.648	0	V	1	38.8	32.43	40.04	5.47	42.33	54.00	-11.67	avg

Note: Emissions after 4th harmonic measured noise floor.

$f_0 = 2.437$ GHz (Mid Channel); 802.11g

Frequency (GHz)	Azimuth (Degrees)	Antenna Polarity (H/V)	Height (m)	Raw Amp. @ 3m (dBuV)	Pre Amp. (dB)	Ant.Corr. Factor (dB)	Cable Loss (dB)	EUT Final Field Strength (dBuV/m)	Limit @ 3m (dBuV/m)	Delta (dBuV/m)	Detector (pk/avg)
4.874	0	H	1.3	55.8	32.55	34.08	3.49	51.28	74.00	-22.72	pk
4.874	0	H	1.3	45.6	32.55	34.08	3.49	41.08	54.00	-12.92	avg
4.874	90	V	1	72.1	32.55	34.08	3.49	67.58	74.00	-6.42	pk
4.874	90	V	1	56.1	32.55	34.08	3.49	51.58	54.00	-2.42	avg
7.311	90	H	1.3	52.6	32.47	37.11	4.50	52.20	74.00	-21.80	pk
7.311	90	H	1.3	35.9	32.47	37.11	4.50	35.50	54.00	-18.50	avg
7.311	90	V	1	65.3	32.47	37.11	4.50	64.90	74.00	-9.10	pk
7.311	90	V	1	45.6	32.47	37.11	4.50	45.20	54.00	-8.80	avg
9.748	180	H	1	57.7	32.54	40.19	5.48	61.30	74.00	-12.70	pk
9.748	180	H	1	37.1	32.54	40.19	5.48	40.70	54.00	-13.30	avg
9.748	0	V	1	52.3	32.54	40.19	5.48	55.90	74.00	-18.10	pk
9.748	0	V	1	40	32.54	40.19	5.48	43.60	54.00	-10.40	avg

Note: Emissions after 4th harmonic measured noise floor.



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$f_o = 2.462$ GHz (High Channel); 802.11g

Frequency (GHz)	Azimuth (Degrees)	Antenna Polarity (H/V)	Height (m)	Raw Amp. @ 3m (dBuV)	Pre Amp. (dB)	Ant.Corr. Factor (dB)	Cable Loss (dB)	EUT Final Field Strength (dBuV/m)	Limit @ 3m (dBuV/m)	Delta (dBuV/m)	Detector (pk/avg)
4.924	0	H	1.3	54.7	32.55	34.18	3.51	50.30	74.00	-23.70	pk
4.924	0	H	1.3	44.8	32.55	34.18	3.51	40.40	54.00	-13.60	avg
4.924	90	V	1	70.6	32.55	34.18	3.51	66.20	74.00	-7.80	pk
4.924	90	V	1	54.9	32.55	34.18	3.51	50.50	54.00	-3.50	avg
7.386	90	H	1.3	51.6	32.48	37.20	4.52	51.30	74.00	-22.70	pk
7.386	90	H	1.3	35.2	32.48	37.20	4.52	34.90	54.00	-19.10	avg
7.386	90	V	1	64.1	32.48	37.20	4.52	63.80	74.00	-10.20	pk
7.386	90	V	1	44.8	32.48	37.20	4.52	44.50	54.00	-9.50	avg
9.848	180	H	1	56.5	32.65	40.33	5.50	60.14	74.00	-13.86	pk
9.848	180	H	1	36.3	32.65	40.33	5.50	39.94	54.00	-14.06	avg
9.848	0	V	1	51.2	32.65	40.33	5.50	54.84	74.00	-19.16	pk
9.848	0	V	1	38.4	32.65	40.33	5.50	42.04	54.00	-11.96	avg

Note: Emissions after 4th harmonic measured noise floor.

$f_o = 5.750$ GHz (Low Channel); 802.11a

Frequency (GHz)	Azimuth (Degrees)	Antenna Polarity (H/V)	Height (m)	Raw Amp. @ 3m (dBuV)	Pre Amp. (dB)	Ant.Corr. Factor (dB)	Cable Loss (dB)	EUT Final Field Strength (dBuV/m)	Limit @ 3m (dBuV/m)	Delta (dBuV/m)	Detector (pk/avg)
11.5	0	H	1.3	51.9	32.51	41.21	5.96	57.01	74.00	-16.99	pk
11.5	0	H	1.3	35.5	32.51	41.21	5.96	40.61	54.00	-13.39	avg
11.5	90	V	1	56.3	32.51	41.21	5.96	61.41	74.00	-12.59	pk
11.5	90	V	1	41.2	32.51	41.21	5.96	46.31	54.00	-7.69	avg

Note: Emissions after 2nd harmonic measured noise floor.



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$f_o = 5.785$ GHz (Mid Channel); 802.11a

Frequency (GHz)	Azimuth (Degrees)	Antenna Polarity (H/V)	Height (m)	Raw Amp. @ 3m (dBuV)	Pre Amp. (dB)	Ant.Corr. Factor (dB)	Cable Loss (dB)	EUT Final Field Strength (dBuV/m)	Limit @ 3m (dBuV/m)	Delta (dBuV/m)	Detector (pk/avg)
11.57	0	H	1.3	51.5	32.49	41.13	5.98	56.58	74.00	-17.42	pk
11.57	0	H	1.3	35.2	32.49	41.13	5.98	40.28	54.00	-13.72	avg
11.57	90	V	1	56.2	32.49	41.13	5.98	61.28	74.00	-12.72	pk
11.57	90	V	1	41.1	32.49	41.13	5.98	46.18	54.00	-7.82	avg

Note: Emissions after 2nd harmonic measured noise floor.

$f_o = 5.825$ GHz (High Channel); 802.11a

Frequency (GHz)	Azimuth (Degrees)	Antenna Polarity (H/V)	Height (m)	Raw Amp. @ 3m (dBuV)	Pre Amp. (dB)	Ant.Corr. Factor (dB)	Cable Loss (dB)	EUT Final Field Strength (dBuV/m)	Limit @ 3m (dBuV/m)	Delta (dBuV/m)	Detector (pk/avg)
11.65	0	H	1.3	51	32.47	40.99	6.01	55.99	74.00	-18.01	pk
11.65	0	H	1.3	34.7	32.47	40.99	6.01	39.69	54.00	-14.31	avg
11.65	90	V	1	55.3	32.47	40.99	6.01	60.29	74.00	-13.71	pk
11.65	90	V	1	40.8	32.47	40.99	6.01	45.79	54.00	-8.21	avg

Note: Emissions after 2nd harmonic measured noise floor.

Tested By: Snell Leong

Date Tested: 18 February 2007



4.2.8 Radiated Emissions – Restricted Band Edge

Requirement(s): 47 CFR §15.205; 47 CFR §15.247(d) & RSS-210 (A8.5)

Procedures: Radiated emissions were measured according to ANSI C63.4. Equipment was tested with two protocols at low and high channel. The maker-delta method was used to measure the bandedge. Vertical and Horizontal polarization were investigated and reported the worse case, vertical.

Peak measurement spectrum analyzer setting: RBW = VBW = 1MHz.

Average measurement spectrum analyzer setting: RBW = 1MHz and VBW = 10Hz.

Sample Calculation:

Margin = Reference Level - Delta – Limit

Results:

Plot	Protocol	EUT Center Freq	Reference level @ 3m	Delta	Spurious level	Limit @ 3m	Margin	Detector	Polarization	Remark
	(MHz)	(MHz)	(dBµV/m)	(dBc)	(dBµV/m)	(dBµV/m)	(dB)	(Pk/Avg)	(V/H)	
64	802.11b	2412	75.53	40	35.53	74	-38.47	Pk	V	Lower Edge
65	802.11b	2412	71.87	44.52	27.35	54	-26.65	Avg	V	Lower Edge
66	802.11b	2462	77.69	50.72	26.97	74	-47.03	Pk	V	Upper Edge
67	802.11b	2462	73.85	57.66	16.19	54	-37.81	Avg	V	Upper Edge
68	802.11g	2412	78.88	19.99	58.89	74	-15.11	Pk	V	Lower Edge
69	802.11g	2412	68.01	32.94	35.07	54	-18.93	Avg	V	Lower Edge
70	802.11g	2462	81.23	39.08	42.15	74	-31.85	Pk	V	Upper Edge
71	802.11g	2462	70.62	48.15	22.47	54	-31.53	Avg	V	Upper Edge

Tested By: Snell Leong

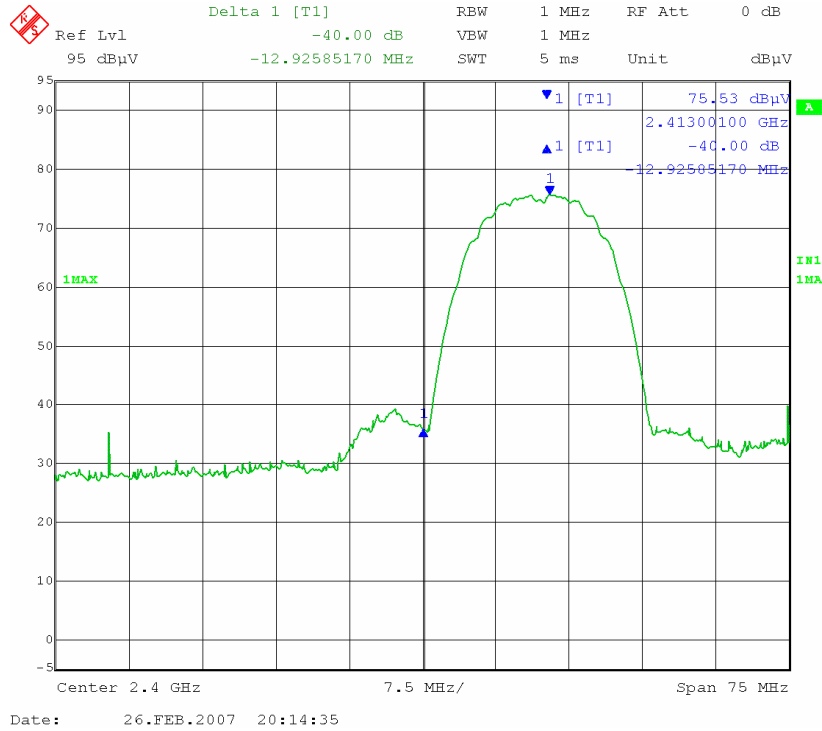
Date Tested: 26 February 2007



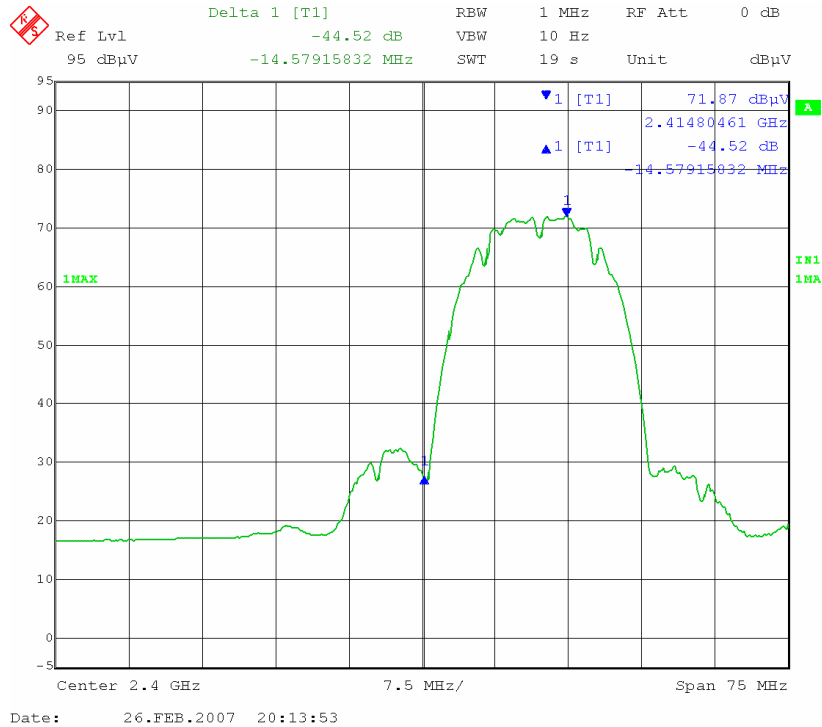
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Plot 64: 802.11b Lower Edge (Peak)



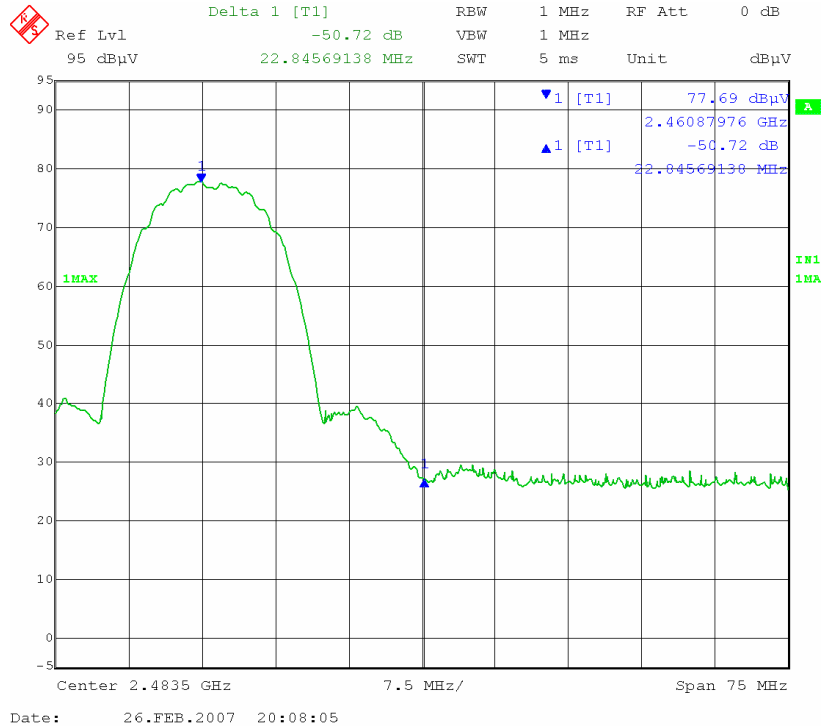
Plot 65: 802.11b Lower Edge (Average)



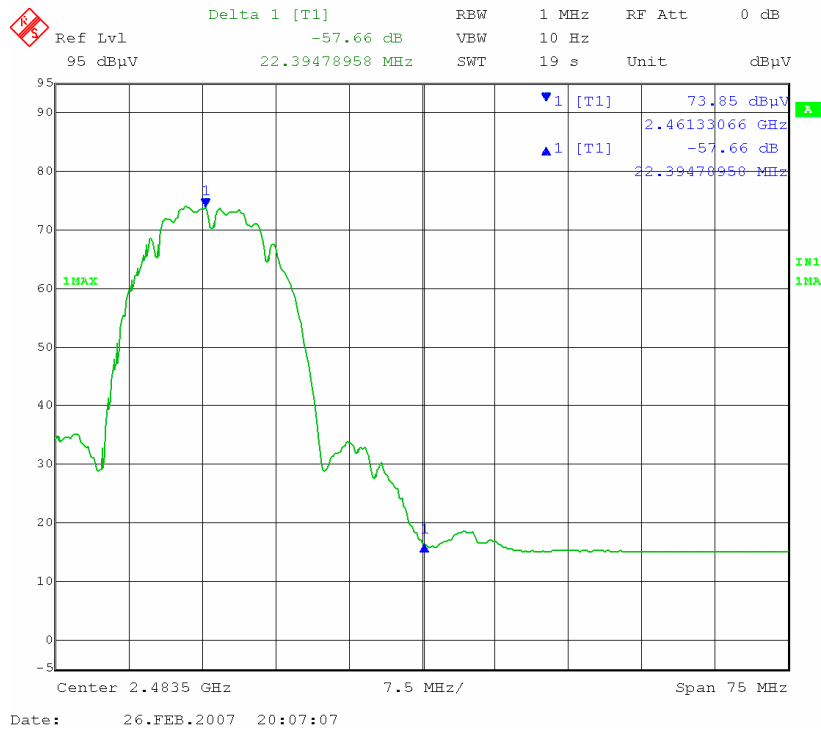
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Plot 66: 802.11b Upper Edge (Peak)



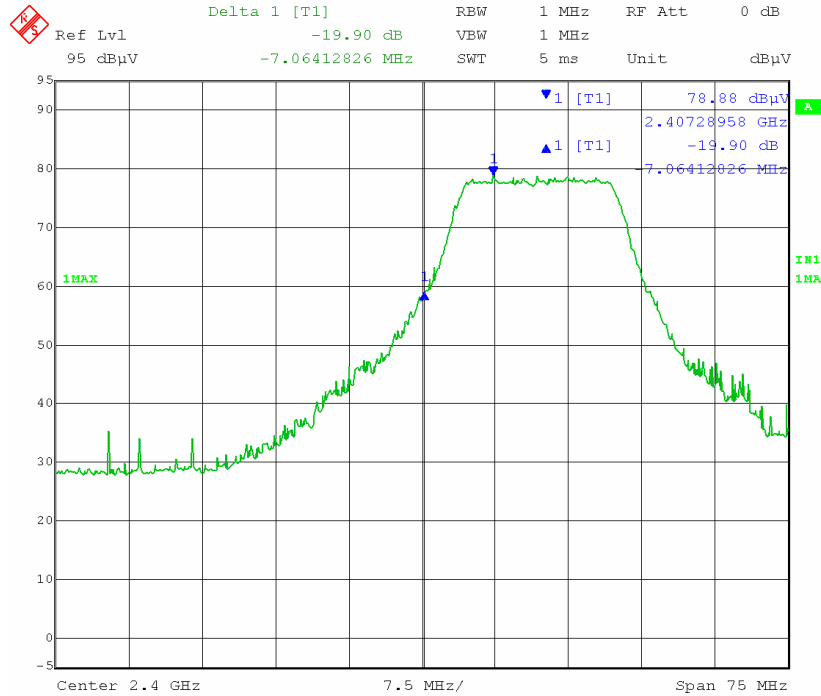
Plot 67: 802.11b Upper Edge (Average)



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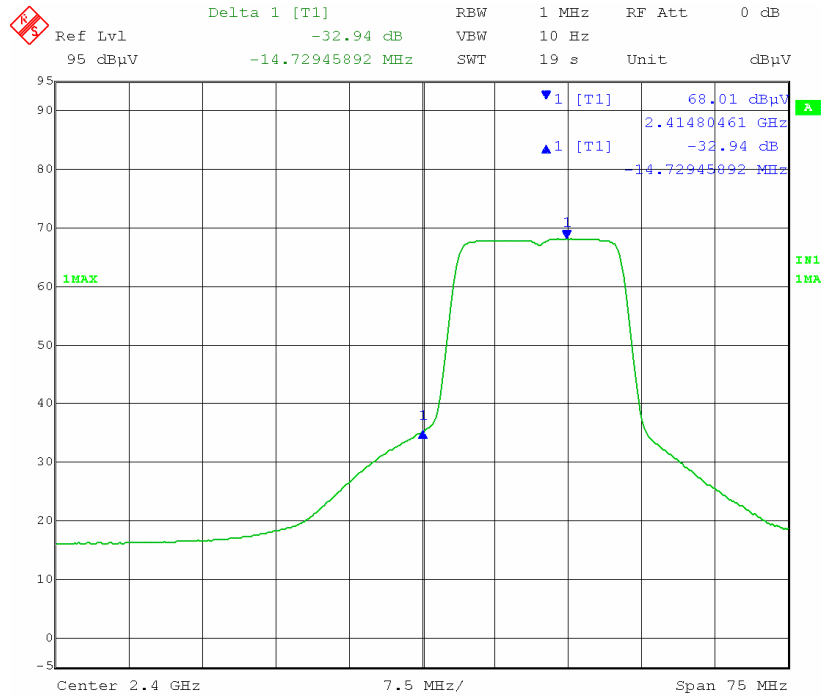
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Date: 26.FEB.2007 20:15:18

Plot 68: 802.11 Lower Edge (Peak)



Date: 26.FEB.2007 20:16:11

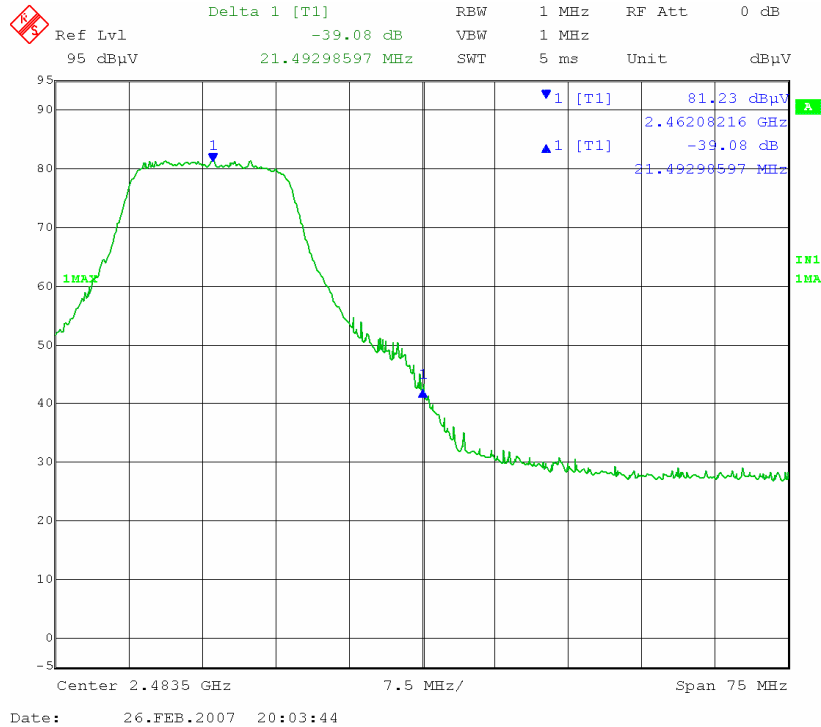
Plot 69: 802.11g Lower Edge (Average)



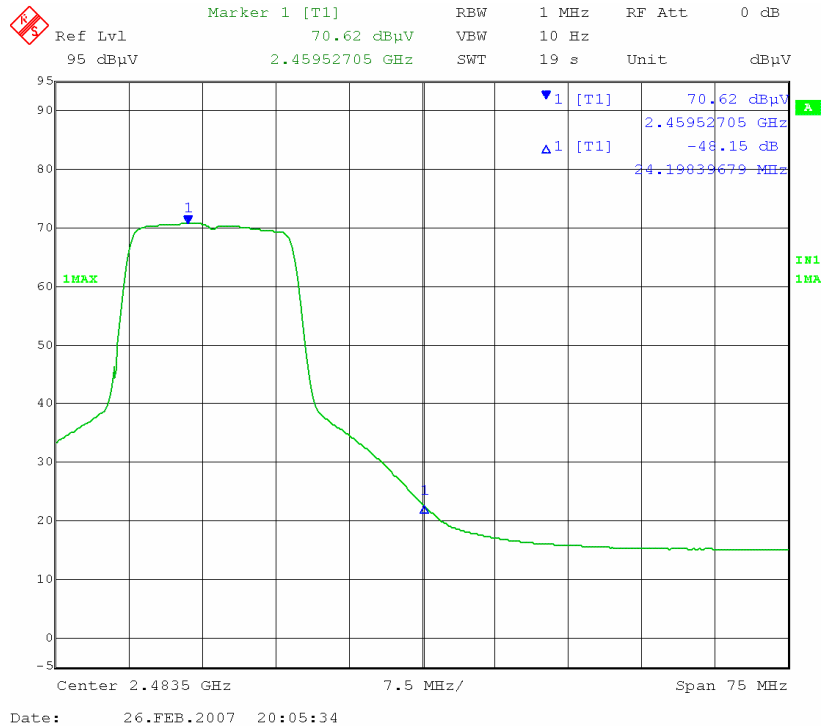
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Plot 70: 802.11g Upper Edge (Peak)



Plot 71: 802.11g Upper Edge (Average)



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5 TEST INSTRUMENTATION

5.1 TEST INSTRUMENTATION

Instrument	Manufacturer	Model	CAL Due Date
Spectrum Analyzer	HP	8568B	04/26/2007
Quasi-Peak Adapter	HP	85650A	04/26/2007
RF Pre-Selector	HP	85685A	04/26/2007
Spectrum Analyzer	HP	8564E	05/01/2007
EMI Receiver	Rohde & Schwarz	ESIB 40	02/07/2008
Power Meter	HP	437B	04/26/2007
Power Sensor	HP	8485A	04/26/2007
Antenna	Emco	3115	08/17/2007
Antenna	Emco	3115	See Note
Signal Generator	Wiltron	68169B	04/26/2007
Chamber	Lingren	3m	09/28/2007
Pre-Amplifier	HP	8449	05/01/2007
DMM	Fluke	73III	05/01/2007
Variac	KRM	AEEC-2090	See Note
DMM	Fluke	51II	See Note
900 MHz Notch Filter	AWID	N/A	See Note
4GHz High Pass Filter	LORCH Microwave	4HPD-X4000-3R	See Note
Harmonic Mixer (18-26.5 GHz)	HP	11970K	10/10/2007
Harmonic Mixer (26.5-40 GHz)	HP	11970A	10/10/2007

Note: Functional Verification



APPENDIX A: EUT TEST CONDITIONS

The following is the description of supporting equipment and details of cables used with the EUT.

Equipment Description (Including Brand Name)	Cable Description
Intelicis Enterprise Dual Radio Access Point	1. Power cord 2. Reserve TNC coax

EUT Description	: Enterprise Dual Radio Access Point
Model No	: Intelicis
Serial No	: CD860AG-04-06-01383

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
	The EUT was controlled via PC to enter test modes necessary to complete the testing. The power setting in the test program is set to 17dBm for all testing.



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www.siemic.com

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Radio Access Point, mode : CEDAR 860AG
FCCID: **U3HCEDAR860AG**
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APPENDIX B: EXTERNAL PHOTOS



EUT Front View



EUT Rear View



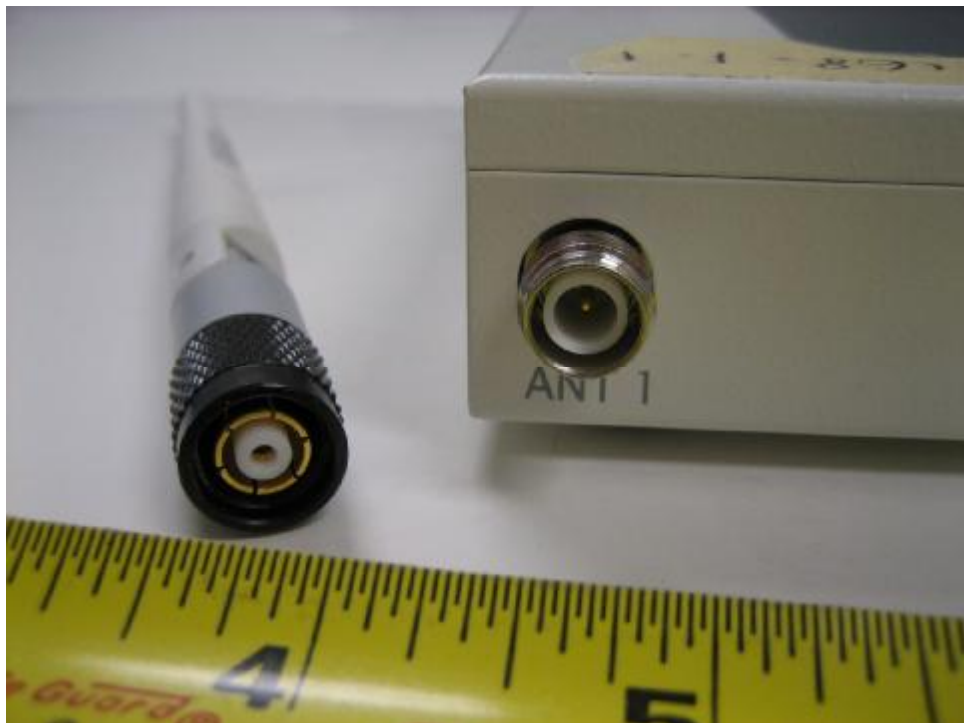
SIEMIC
www.siemec.com

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EUT Side View



EUT Antenna Connector



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Antenna View 1





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Antenna View 2



Power Supply Adaptor



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APPENDIX C: CIRCUIT/BLOCK DIAGRAMS

See Attachment



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APPENDIX D: INTERNAL PHOTOS



EUT Cover Off View



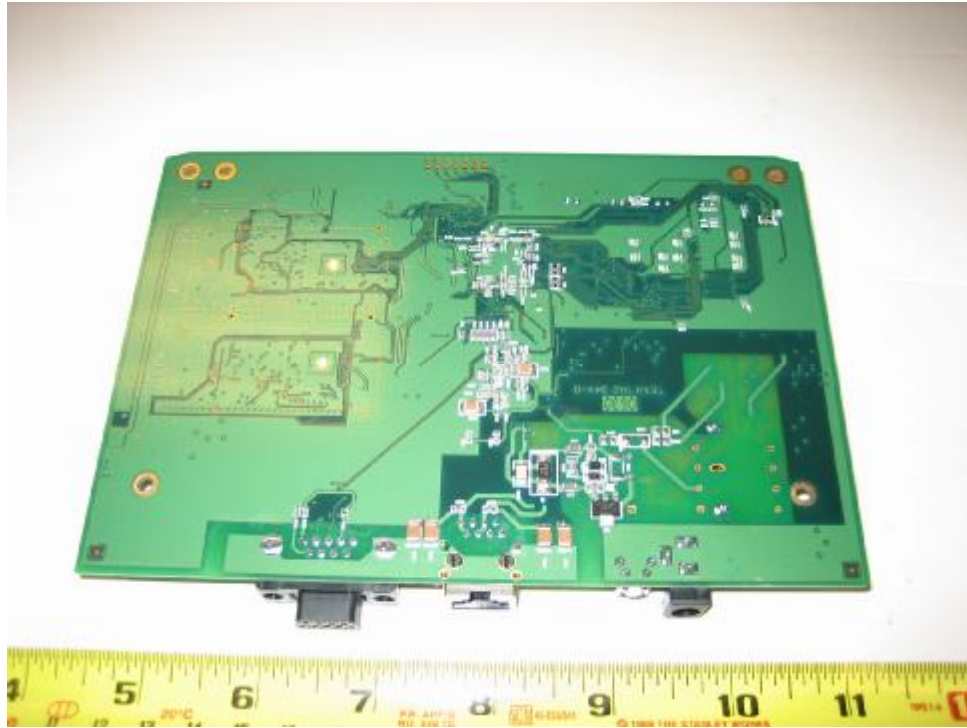
EUT Main Board Component's View



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EUT Main Board Solder's View



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APPENDIX E: Test Setup Photo



AC Line Conducted Emission Front View



AC Line Conducted Emission Rear View



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Radiated Emission Front View



Radiated Emission Rear View



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APPENDIX F: PRODUCT DESCRIPTION

Detail description of this product is shown in the User's Guide.



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APPENDIX G: FCC LABEL LOCATION

See Attachment



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APPENDIX H: USER MANUAL

See Attachment



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END OF REPORT