Lab Code: 200707-0

FCC PART 15.247

TEST REPORT

For

Deliberant LLC

138 Mountain Brook Dr., Canton, GA 30115, USA

FCC ID: UB8-APC2M14

Report Type:	**Product Type:**
Original Report	Broadband Digital Transmission System

Test Engineer:	Bruce Zhang
Report Number:	RSZ110623007-00
Report Date:	2011-09-13
Reviewed By:	Merry Zhao EMC Engineer
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Deliberant LLC*'s product, model number: APC 2M-14 (FCC ID: UB8-APC2M14) (the "EUT") in this report is a *Broadband Digital Transmission System*, which was measured approximately: 20.5 cm (L) x 20.5 cm (W) x 4.5 cm (H), rated input voltage: DC 18 V adapter.

Adapter information:
Model: VA16A-180100
Input: AC 100-240V, 50-60 Hz
Output: DC 18V, 1.0A

** All measurement and test data in this report was gathered from production sample serial number: 0101104700000019 (Assigned by applicant). The EUT was received on 2011-06-23.*

Objective

This report is prepared on behalf of *Deliberant LLC* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

N/A

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

The uncertainty of any RF tests which use conducted method measurement is ±0.96 dB, the uncertainty of any radiation on emissions measurement is ±4.0 dB

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).

The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b 802.11g and 802.11n-HT20 mode, 11 channels are provided to testing, 802.11n-HT40 7 channels are provided to testing.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

EUT for 802.11b 802.11g &802.11n-HT20 mode were tested with Channel 1, 6 and 11.802.11n-HT40 mode was tested with channel 3, 6 and 9.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all date rates bandwidths, and modulations.

EUT Exercise Software

QA_RT3052 V1.0.1.9
The test was performed under:
802.11b: Data rate: 1 Mbps.
802.11g: Data rate: 6 Mbps.
802.11n-HT20: Data rate: 6.5 Mbps
802.11n-HT40: Data rate: 6.5 Mbps

Equipment Modifications

No modification was made to the unit tested.

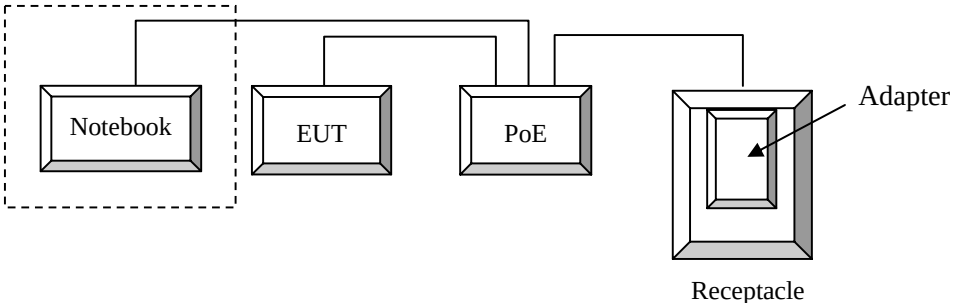
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Notebook	D600	00045-438-852-864

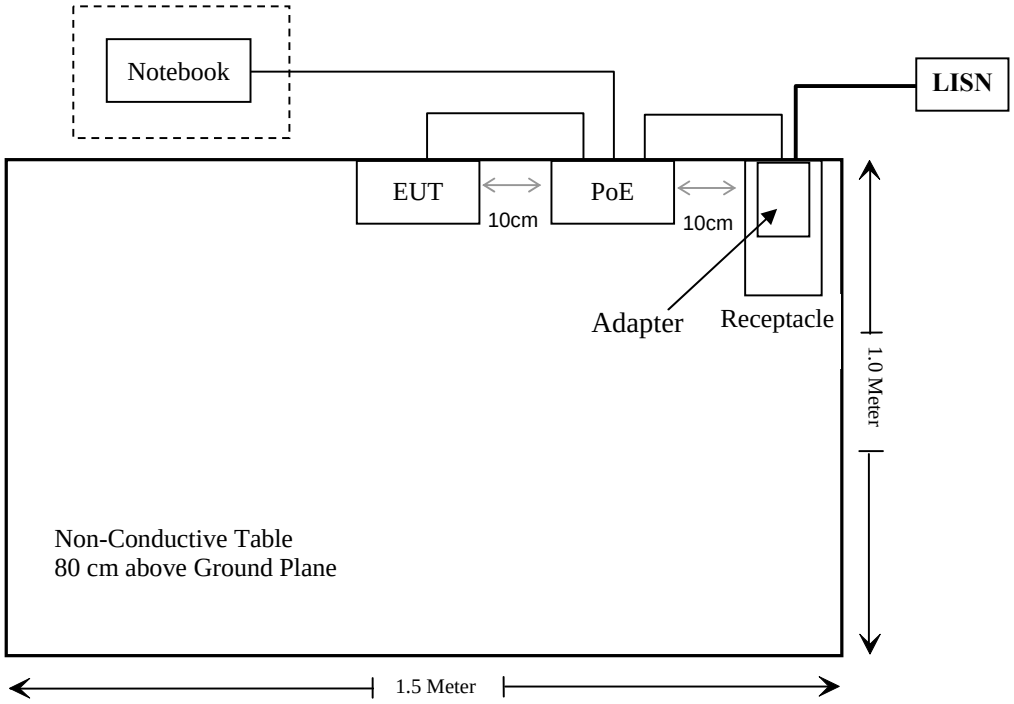
External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded Detachable Power Cable	1.75	Adapter	PoE

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)	Maximum Peak Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

FCC §15.247 (i) & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to FCC §15.247(i) and subpart §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*($180/f^2$)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz;
* = Plane-wave equivalent power density;

MPE Calculation

Predication of MPE limit at a given distance

$$S = PG/4\pi R^2$$

Where: S = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Mode	Frequency (MHz)	Antenna Gain		Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
802.11b	2462	14.0	25.12	15.50	35.48	20	0.177	1.0
802.11g	2462	14.0	25.12	13.31	21.43	20	0.107	1.0
802.11n20	2412	14.0	25.12	15.53	35.73	20	0.179	1.0
802.11n40	2422	14.0	25.12	16.21	41.78	20	0.209	1.0

Result: The device meets FCC MPE limit at 20 cm distance.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.
And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT is professionally installed equipment with an integrated 14 dBi panel antenna, which in accordance to section 15.203, please refer to the internal photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is ±2.4 dB (k=2, 95% level of confidence).
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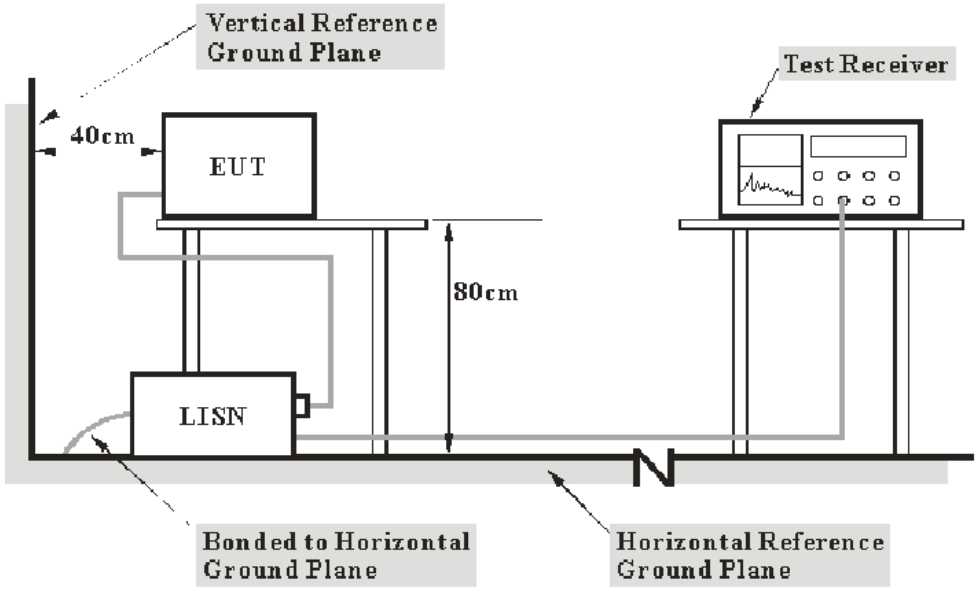
EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	***IF B/W***
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245	2011-03-03	2012-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-03-09	2012-03-08

*** Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

15.06 dB at **0.390 MHz** in the **Neutral** conducted mode

Test Data

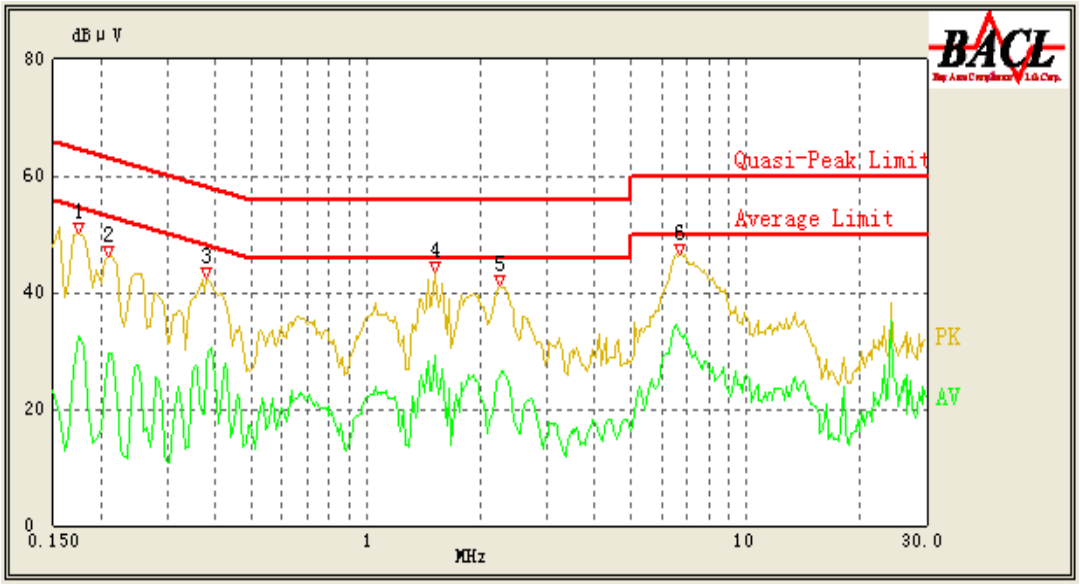
Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Bruce Zhang on 2011-07-28.

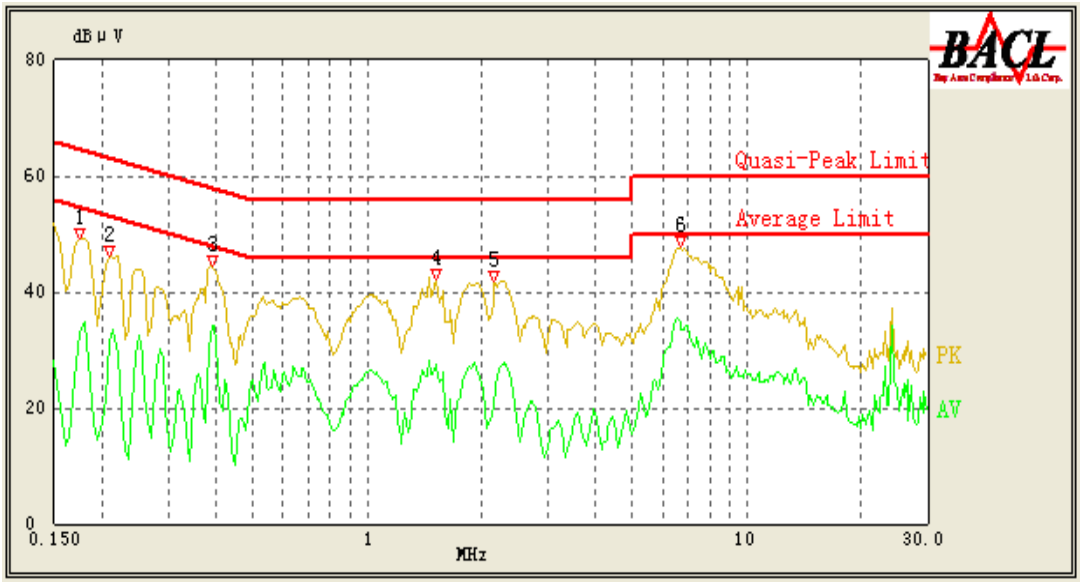
Test Mode: Transmitting

120 V, 60 Hz, Line:



Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Corrected Result (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/QP/Ave.)
1.520	29.05	10.10	46.00	16.95	Ave.
1.520	38.71	10.10	56.00	17.29	QP
6.735	32.52	10.10	50.00	17.48	Ave.
0.175	46.98	10.10	65.29	18.31	QP
2.250	37.23	10.10	56.00	18.77	QP
2.265	26.30	10.10	46.00	19.70	Ave.
6.720	40.19	10.10	60.00	19.81	QP
0.380	39.26	10.10	59.43	20.17	QP
0.210	43.08	10.10	64.29	21.21	QP
0.380	27.44	10.10	49.43	21.99	Ave.
0.175	32.40	10.10	55.29	22.89	Ave.
0.210	29.47	10.10	54.29	24.82	Ave.

120V, 60 Hz, Neutral:



Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Corrected Result (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/QP/Ave.)
0.390	34.08	10.10	49.14	15.06	Ave.
6.670	34.74	10.10	50.00	15.26	Ave.
0.390	41.96	10.10	59.14	17.18	QP
1.520	38.57	10.10	56.00	17.43	QP
6.700	41.60	10.10	60.00	18.40	QP
1.520	27.52	10.10	46.00	18.48	Ave.
2.160	36.64	10.10	56.00	19.36	QP
0.175	45.65	10.10	65.29	19.64	QP
0.175	32.98	10.10	55.29	22.31	Ave.
0.210	41.76	10.10	64.29	22.53	QP
2.175	23.40	10.10	46.00	22.60	Ave.
0.210	31.44	10.10	54.29	22.85	Ave.

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

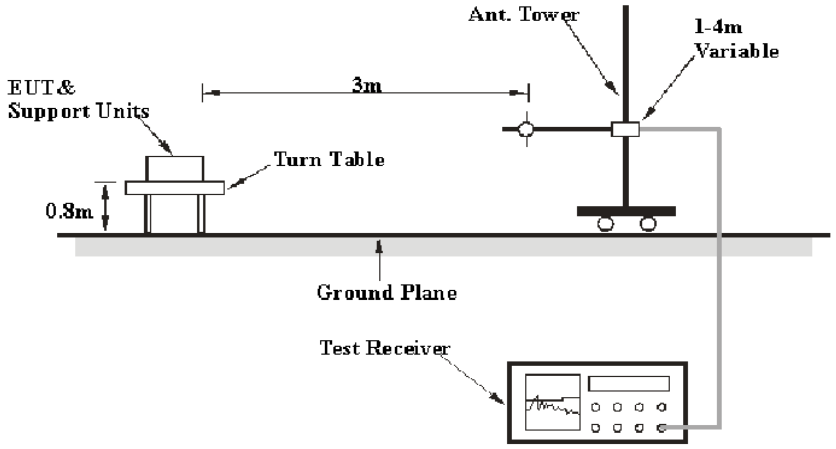
Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

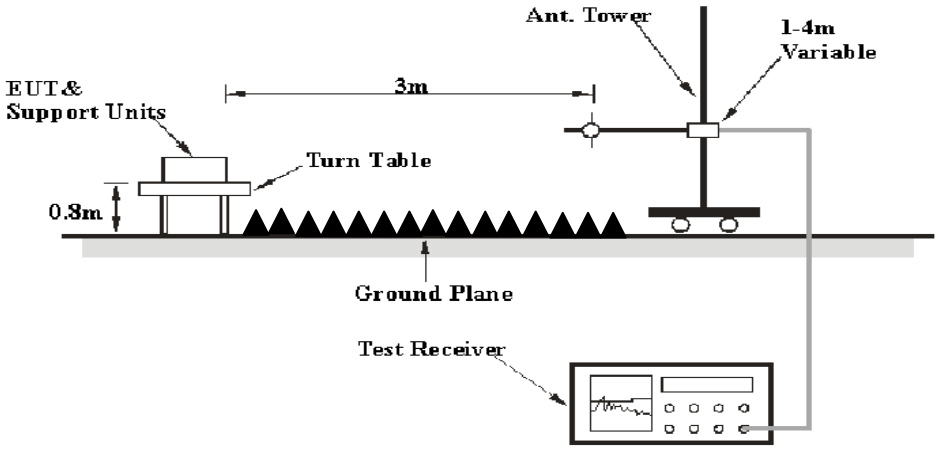
Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is ±4.0 dB(k=2, 95% level of confidence) .

EUT Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	***RBW***	***Video B/W***	***Detector***
30 MHz – 1000 MHz	100 kHz	300 kHz	QP
1000 MHz – 25 GHz	1 MHz	3 MHz	PK
1000 MHz – 25 GHz	1 MHz	10 Hz	Ave.

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-11	2011-11-10
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-03-11	2012-03-10
HP	Amplifier	ZVA-213+	T-E27H	2011-03-08	2012-03-07
Sunol Sciences	Horn Antenna	DRH-118	A052604	2011-05-05	2012-05-04
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2011-07-08	2012-07-07

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247, with the worst margin reading of:

Below 1 GHz:

4.3 dB at **104.754500 MHz** in the **Horizontal** polarization

Above 1 GHz:

0.14 dB at **4874.00 MHz** in the **Vertical** polarization for 802.11b mode

Test Data

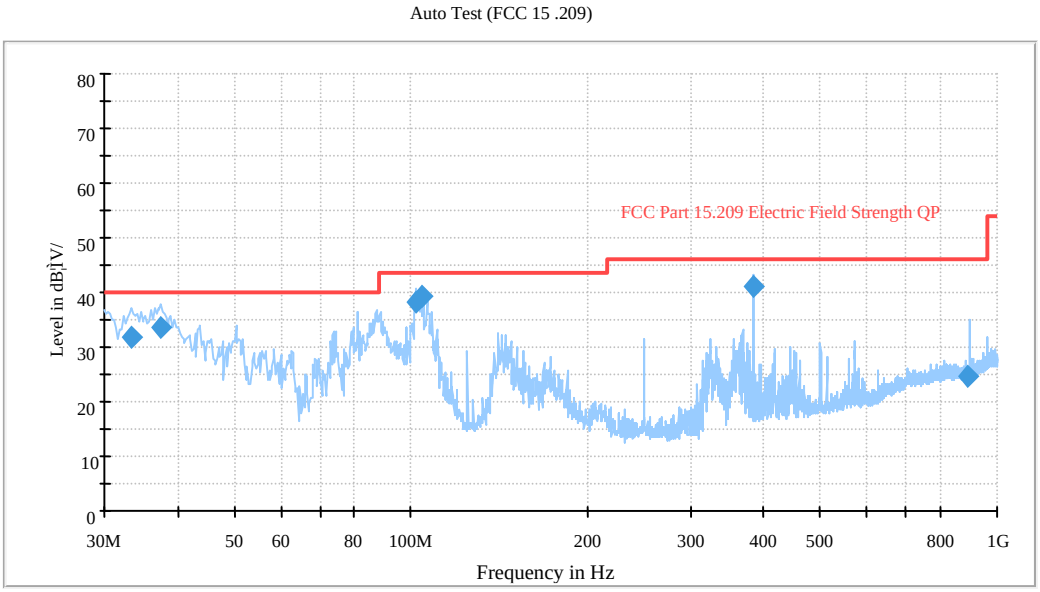
Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Bruce Zhang on 2011-08-07.

1) Below 1 GHz:

Test Mode: Transmitting



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Ant. Height (cm)	Ant. Polarity (H/V)	Turntable Position (degree)	Limit (dBµV/m)	Margin (dB)
104.754500	39.2	263.0	H	6.0	43.5	4.3
383.977000	41.0	100.0	H	239.0	46.0	5.0
101.894000	38.4	301.0	H	24.0	43.5	5.1
37.509000	33.6	100.0	V	341.0	40.0	6.4
33.446000	31.7	100.0	V	0.0	40.0	8.3
891.228750	24.6	333.0	V	135.0	46.0	25.4

2) Above 1 GHz

802.11b Mode:

Indicated		Detector (PK/Ave.)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247/15.209			
Frequency (MHz)	S.A. Reading (dBµV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Comment
Low Channel (2412 MHz)												
4824	39.69	Ave.	310	1.0	H	36.6	4.3	26.75	58.84	54	0.16*	harmonic
4824	39.64	Ave.	310	1.0	V	35.4	4.3	26.75	52.59	54	1.41*	harmonic
2389	44.20	Ave.	0	1.1	V	30.6	2.98	26.83	50.95	54	3.05*	spurious
2389	62.88	PK	0	1.1	V	30.6	2.98	26.83	69.63	74	4.37	spurious
2385.5	31.36	Ave.	30	1.3	H	30.6	2.98	26.83	38.11	54	15.89	spurious
4824	43.36	PK	310	1.0	H	36.6	4.3	26.75	62.51	74	16.49	harmonic
4824	42.98	PK	310	1.0	V	35.4	4.3	26.75	55.93	74	18.07	harmonic
2385.5	48.46	PK	30	1.3	H	30.6	2.98	26.83	55.21	74	18.79	spurious
Middle Channel (2437 MHz)												
4874	39.65	Ave.	310	1.0	H	36.6	4.36	26.75	53.86	54	0.14*	harmonic
4874	38.45	Ave.	310	1.0	V	35.4	4.36	26.75	51.46	54	2.54*	harmonic
4874	43.58	PK	310	1.0	H	36.6	4.36	26.75	57.79	74	16.21	harmonic
4874	42.31	PK	310	1.0	V	35.4	4.36	26.75	55.32	74	18.68	harmonic
High Channel (2462 MHz)												
4924	39.26	Ave.	330	1.0	H	36.6	4.40	26.75	53.51	54	0.49*	harmonic
4924	39.38	Ave.	330	1.0	V	35.4	4.40	26.75	52.43	54	1.57*	harmonic
2484.5	37.45	Ave.	360	1.6	H	30.6	3.11	26.88	44.28	54	9.72	spurious
2484.4	36.36	Ave.	360	1.0	V	30.6	3.11	26.88	43.19	54	10.81	spurious
2484.5	54.25	PK	360	1.6	H	30.6	3.11	26.88	61.08	74	12.92	spurious
2484.1	53.93	PK	360	1.0	V	30.6	3.11	26.88	60.76	74	13.24	spurious
4924	43.45	PK	330	1.0	H	36.6	4.40	26.75	57.7	74	16.3	harmonic
4924	43.56	PK	330	1.0	V	35.4	4.40	26.75	56.61	74	17.39	harmonic

*Within measurement uncertainty!

802.11g Mode:

Indicated		Detector (PK/Ave)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247/15.209			
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Comment
Low Channel (2412 MHz)												
2360	46.29	Ave.	360	1.8	H	30.6	2.98	26.83	53.04	54	0.96*	spurious
2360	42.28	Ave.	0	1.0	V	30.6	2.98	26.83	49.03	54	4.97	spurious
2360	61.36	PK	360	1.8	H	30.6	2.98	26.83	68.11	74	5.89	spurious
2360	61.29	PK	0	1.0	V	30.6	2.98	26.83	68.04	74	5.96	spurious
4824	23.97	Ave.	130	1.5	H	36.6	4.3	26.75	38.12	54	15.88	harmonic
4824	43.83	PK	130	1.5	H	36.6	4.3	26.75	57.98	74	16.02	harmonic
4824	23.04	Ave.	60	1.8	V	35.4	4.3	26.75	35.99	54	18.01	harmonic
4824	41.35	PK	60	1.8	V	35.4	4.3	26.75	54.3	74	19.7	harmonic
Middle Channel (2437 MHz)												
4874	23.86	Ave.	130	1.5	H	36.6	4.36	26.75	38.07	54	15.93	harmonic
4874	43.72	PK	130	1.5	H	36.6	4.36	26.75	57.93	74	16.07	harmonic
4874	23.08	Ave.	60	1.8	V	35.4	4.36	26.75	36.09	54	17.91	harmonic
4874	41.56	PK	60	1.8	V	35.4	4.36	26.75	54.57	74	19.43	harmonic
High Channel (2462 MHz)												
2483.8	35.40	Ave.	0	1.8	H	30.6	3.11	26.88	42.23	54	11.77	spurious
2483.8	54.92	PK	0	1.8	H	30.6	3.11	26.88	61.75	74	12.25	spurious
2483.8	54.31	PK	360	1.6	V	30.6	3.11	26.88	61.14	74	12.86	spurious
2483.8	34.30	Ave.	360	1.6	V	30.6	3.11	26.88	41.13	54	12.87	spurious
4924	44.08	PK	250	1.8	H	36.6	4.40	26.75	58.33	74	15.67	harmonic
4924	23.86	Ave.	250	1.8	H	36.6	4.40	26.75	38.11	54	15.89	harmonic
4924	23.15	Ave.	60	1.8	V	35.4	4.40	26.75	36.2	54	17.8	harmonic
4924	41.87	PK	60	1.8	V	35.4	4.40	26.75	54.92	74	19.08	harmonic

*Within measurement uncertainty!

802.11n20 Mode:

Indicated		Detector (PK/Ave)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247/15.209			
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Comment
Low Channel (2412 MHz)												
2389.5	47.05	Ave.	0	1.8	H	30.6	2.98	26.83	54.2	54	0.2*	spurious
2389.5	66.84	PK	0	1.8	H	30.6	2.98	26.83	73.59	74	0.41*	spurious
2389.5	66.48	PK	0	1.0	V	30.6	2.98	26.83	73.23	74	0.77*	spurious
2389.5	44.58	Ave.	0	1.0	V	30.6	2.98	26.83	51.33	54	2.67*	spurious
4824	23.54	Ave.	130	1.5	H	36.6	4.3	26.75	37.69	54	16.31	harmonic
4824	43.32	PK	130	1.5	H	36.6	4.3	26.75	57.47	74	16.53	harmonic
4824	23.06	Ave.	60	1.8	V	35.4	4.3	26.75	36.01	54	17.99	harmonic
4824	40.95	PK	60	1.8	V	35.4	4.3	26.75	53.9	74	20.10	harmonic
Middle Channel (2437 MHz)												
4874	44.05	PK	130	1.5	H	36.6	4.36	26.75	58.26	74	15.74	harmonic
4874	23.34	Ave.	130	1.5	H	36.6	4.36	26.75	37.55	54	16.45	harmonic
4874	41.25	PK	60	1.8	V	35.4	4.36	26.75	54.26	74	19.74	harmonic
4874	23.14	Ave.	60	1.8	V	35.4	4.36	26.75	36.15	54	17.85	harmonic
High Channel (2462 MHz)												
2484.2	63.55	PK	0	1.7	H	30.6	3.11	26.88	70.38	74	3.62*	spurious
2484.7	63.52	PK	360	1.5	V	30.6	3.11	26.88	70.35	74	3.65*	spurious
2484.2	34.91	Ave.	0	1.7	H	30.6	3.11	26.88	41.74	54	12.26	spurious
2484.7	34.13	Ave.	360	1.5	V	30.6	3.11	26.88	40.96	54	13.04	spurious
4924	23.56	Ave.	250	1.8	H	36.6	4.40	26.75	37.81	54	16.19	harmonic
4924	43.54	PK	250	1.8	H	36.6	4.40	26.75	57.79	74	16.21	harmonic
4924	23.03	Ave.	60	1.8	V	35.4	4.40	26.75	36.08	54	17.92	harmonic
4924	41.05	PK	60	1.8	V	35.4	4.40	26.75	54.1	74	19.90	harmonic

*Within measurement uncertainty!

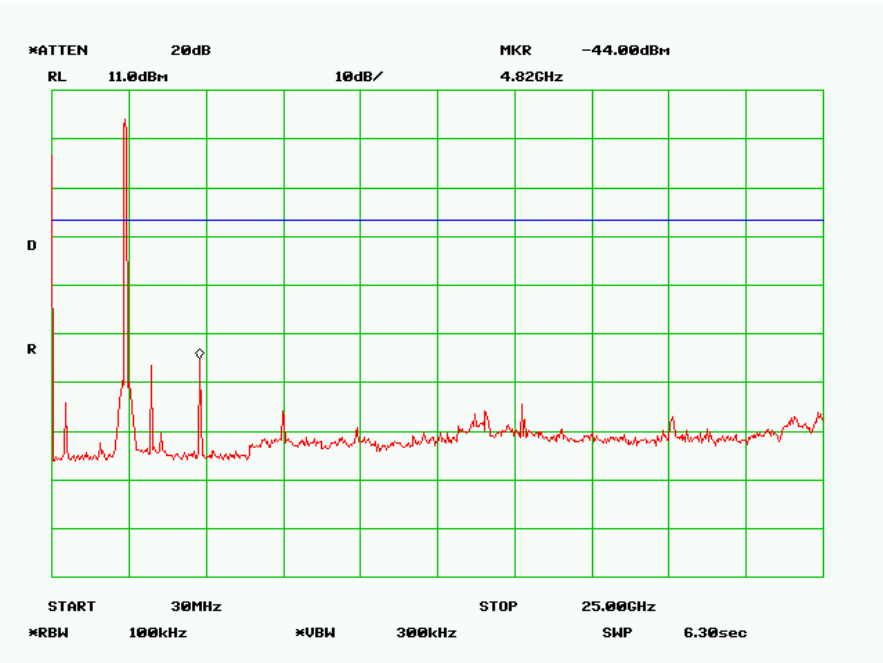
802.11n40 Mode:

Indicated		Detector (PK/Ave)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247/15.209			
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Comment
Low Channel (2422 MHz)												
2386.8	66.52	PK	42	1.0	V	30.6	2.98	26.83	73.27	74	0.73*	spurious
2386.8	46.44	Ave.	42	1.0	V	30.6	2.98	26.83	53.19	54	0.81*	spurious
2390	39.83	Ave.	110	1.0	H	30.6	2.98	26.83	46.58	54	7.42	spurious
2390	59.12	PK	110	1.0	H	30.6	2.98	26.83	65.87	74	8.13	spurious
4844	20.58	Ave.	130	1.5	H	36.6	4.3	26.75	34.73	54	19.27	harmonic
4844	20.22	Ave.	60	1.8	V	35.4	4.3	26.75	33.17	54	20.83	harmonic
4844	37.56	PK	130	1.5	H	36.6	4.3	26.75	51.71	74	22.29	harmonic
4844	36.95	PK	60	1.8	V	35.4	4.3	26.75	49.9	74	24.1	harmonic
Middle Channel (2437 MHz)												
4874	20.42	Ave.	130	1.5	H	36.6	4.36	26.75	34.63	54	19.37	harmonic
4874	20.18	Ave.	60	1.8	V	35.4	4.36	26.75	33.19	54	20.81	harmonic
4874	37.85	PK	130	1.5	H	36.6	4.36	26.75	52.06	74	21.94	harmonic
4874	37.77	PK	60	1.8	V	35.4	4.36	26.75	50.78	74	23.22	harmonic
High Channel (2452 MHz)												
2483.6	66.40	PK	37	1.0	V	30.6	3.11	26.88	73.23	74	0.77*	spurious
2483.6	64.14	PK	270	1.0	H	30.6	3.11	26.88	70.97	74	3.03*	spurious
2483.6	41.94	Ave.	37	1.0	V	30.6	3.11	26.88	48.77	54	5.23	spurious
2483.6	40.88	Ave.	270	1.0	H	30.6	3.11	26.88	47.71	54	6.29	spurious
4904	22.75	Ave.	60	1.8	V	35.4	4.40	26.75	35.8	54	18.2	harmonic
4904	20.68	Ave.	250	1.8	H	36.6	4.40	26.75	34.93	54	19.07	harmonic
4904	37.24	PK	250	1.8	H	36.6	4.40	26.75	51.49	74	22.51	harmonic
4904	37.16	PK	60	1.8	V	35.4	4.40	26.75	50.21	74	23.79	harmonic

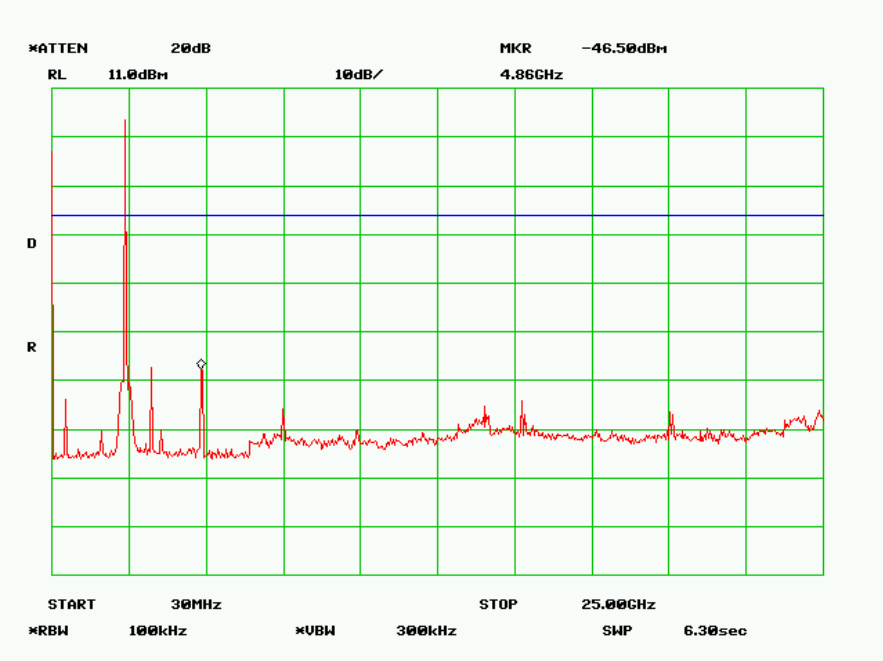
*Within measurement uncertainty!

Antenna Port Conducted Spurious Emissions:

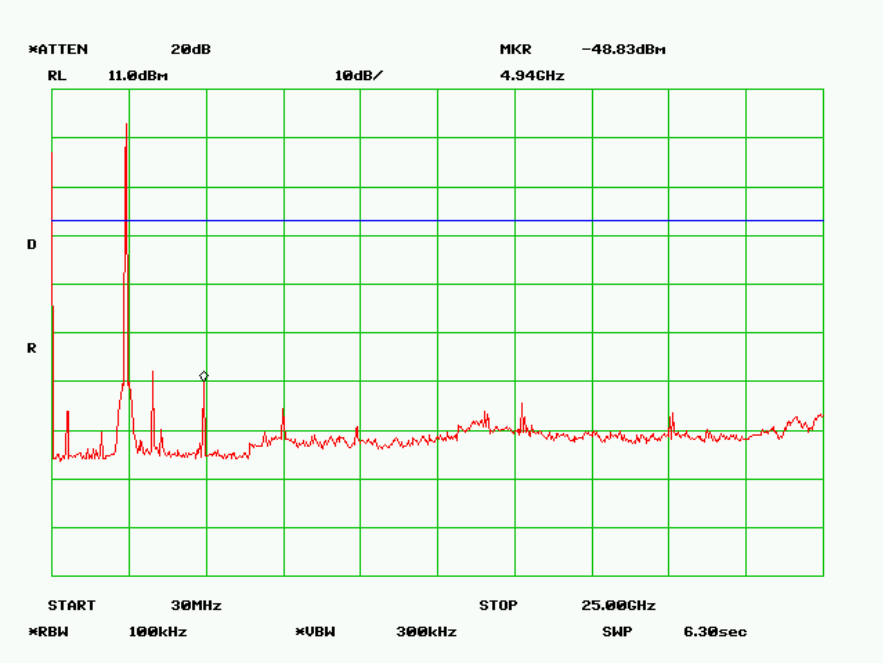
802.11b Low Channel



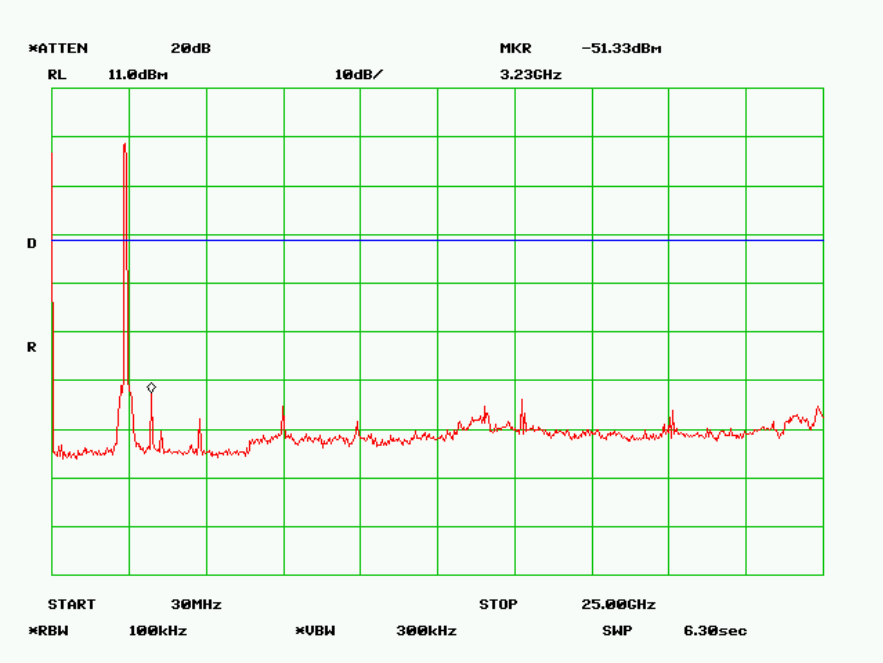
802.11b Middle Channel



802.11b High Channel

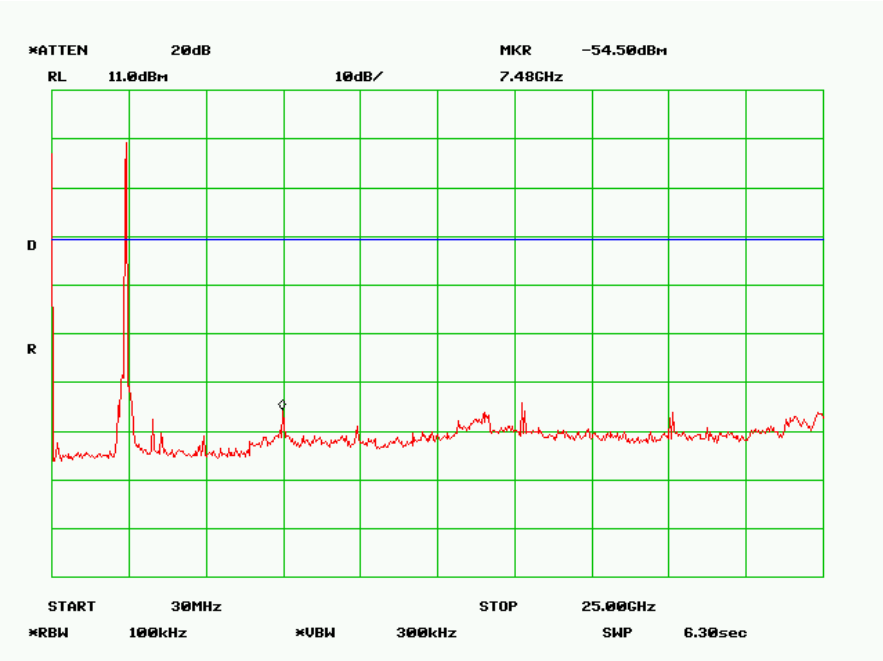


802.11g Low Channel



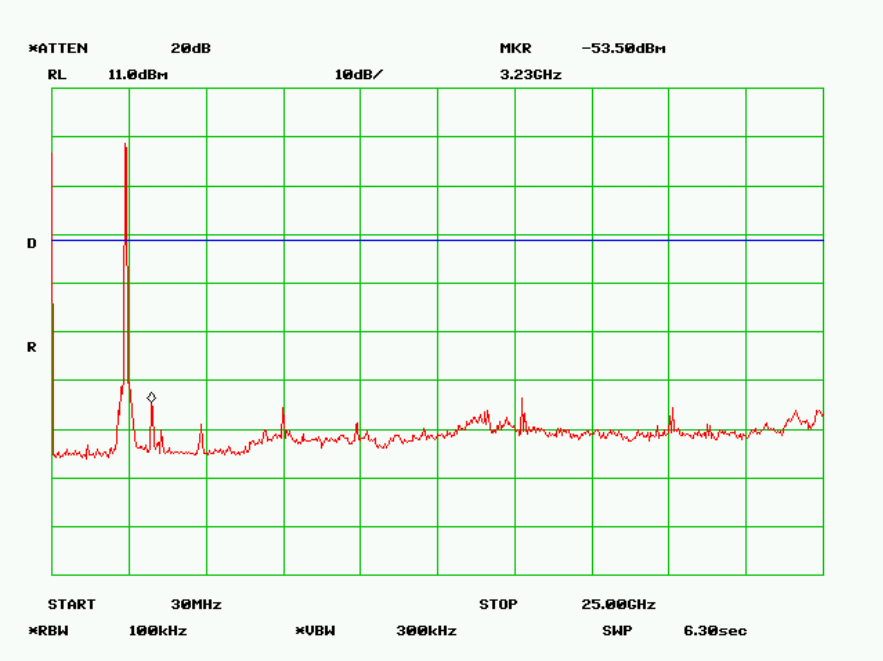
802.11g Middle Channel

802.11g High Channel



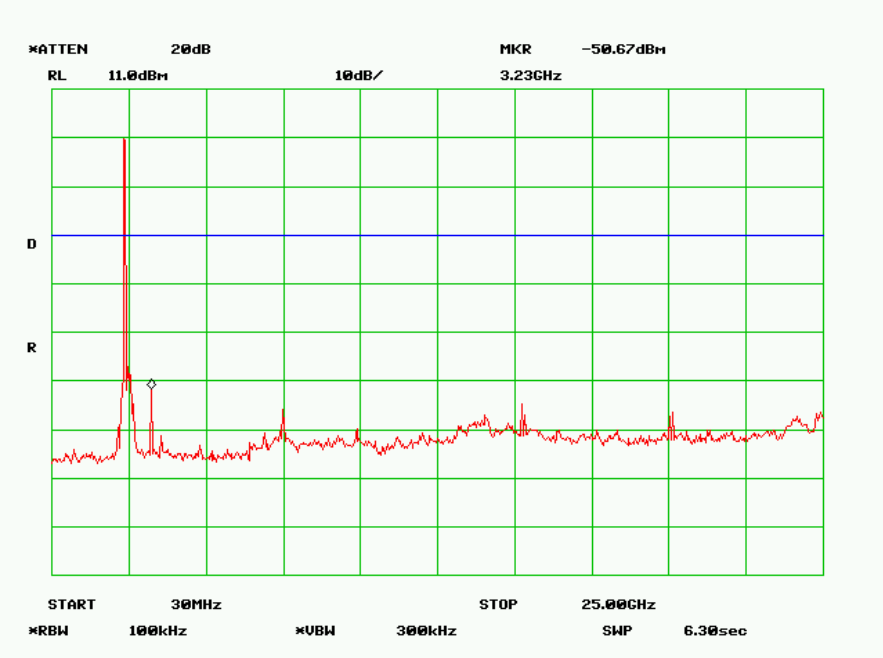
802.11n20 Low Channel, TX0

802.11n20 Middle Channel, TX0

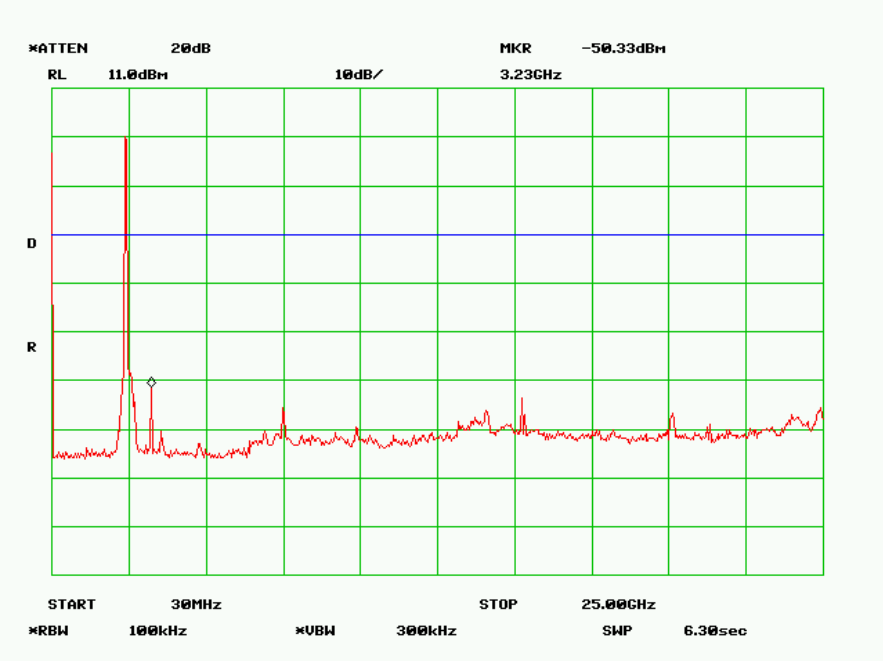


802.11n20 High Channel, TX0

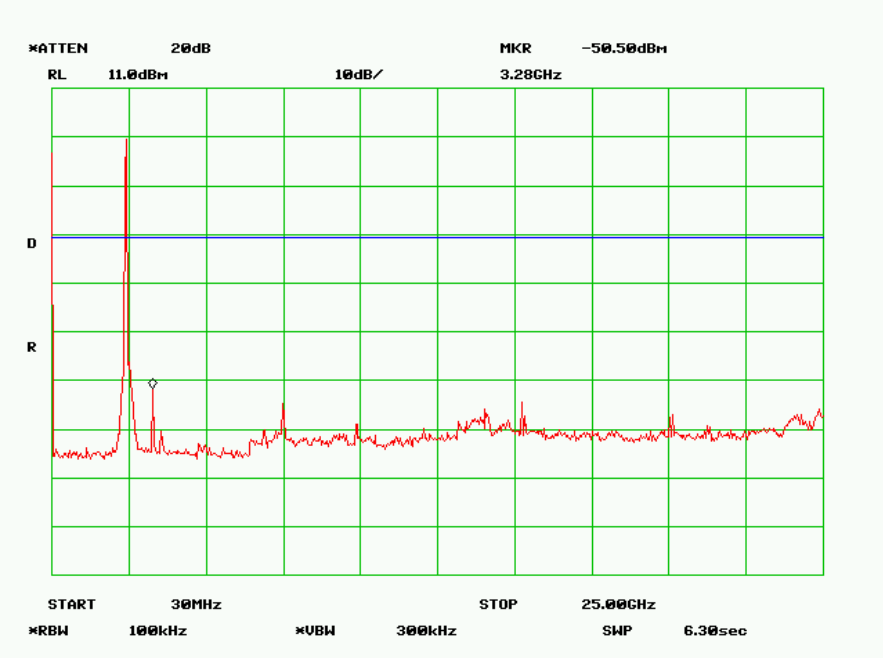
802.11n20 Low Channel, TX2



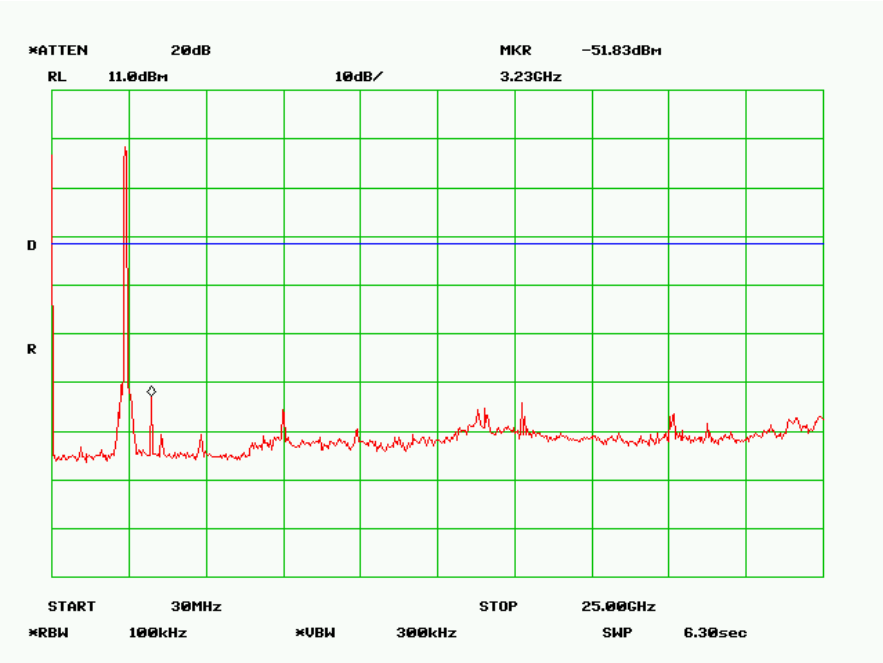
802.11n20 Middle Channel, TX2



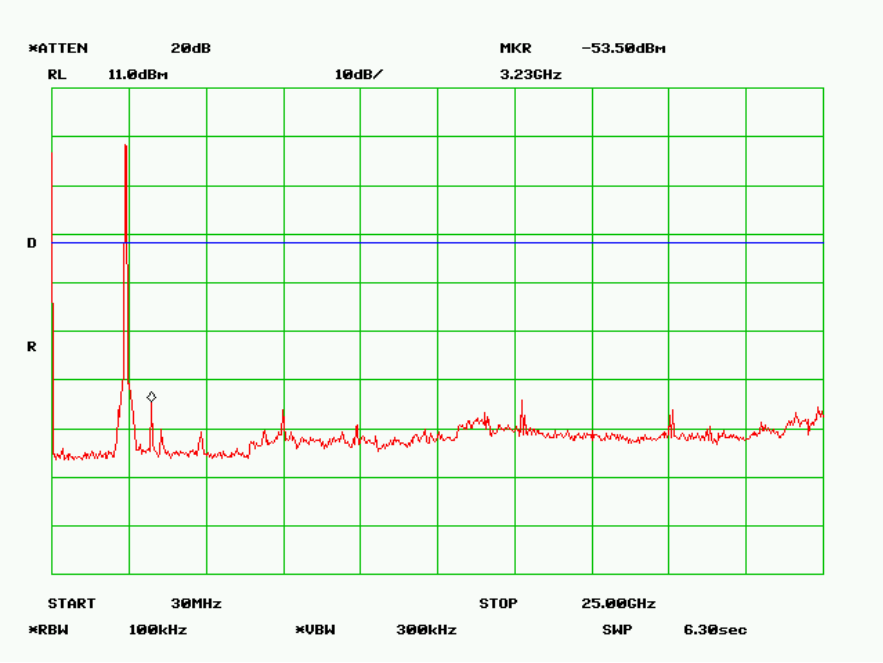
802.11n20 High Channel, TX2



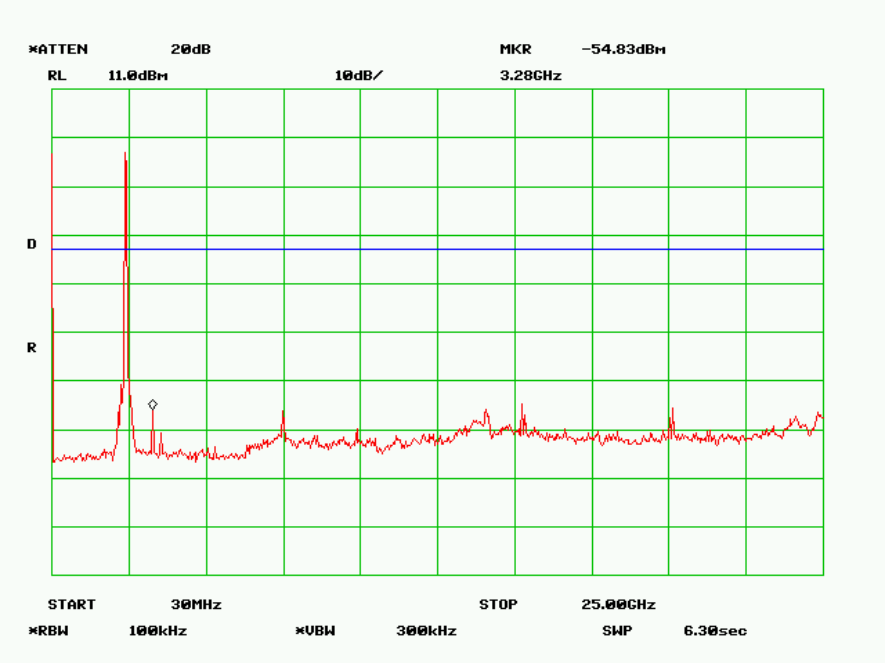
802.11n40 Low Channel, TX0



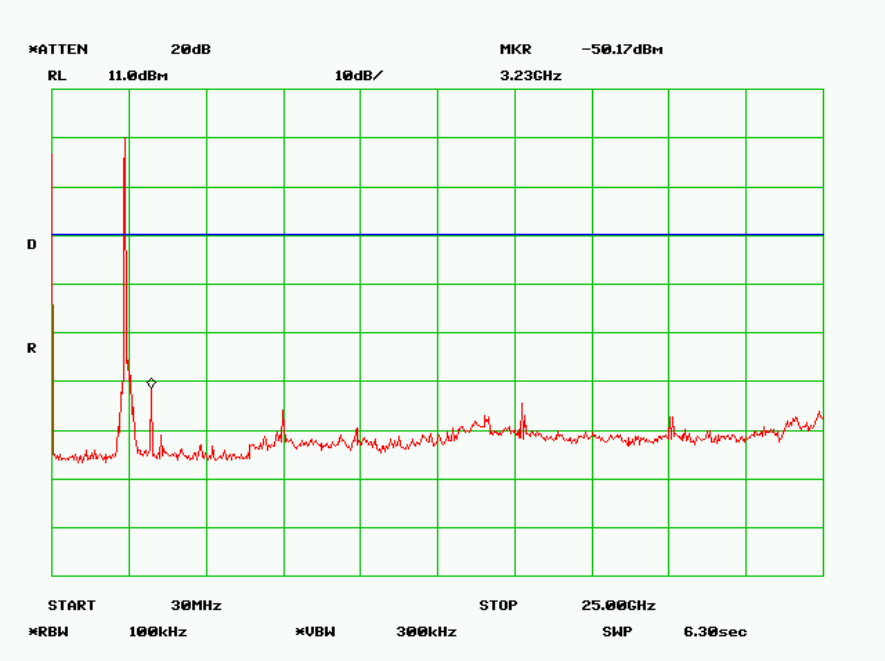
802.11n40 Middle Channel, TX0



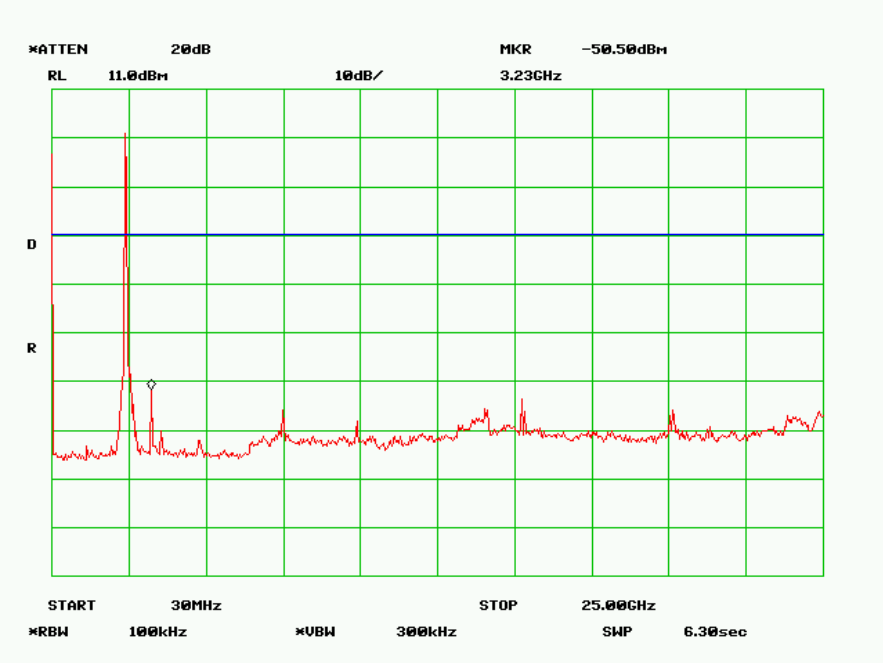
802.11n40 High Channel, TX0



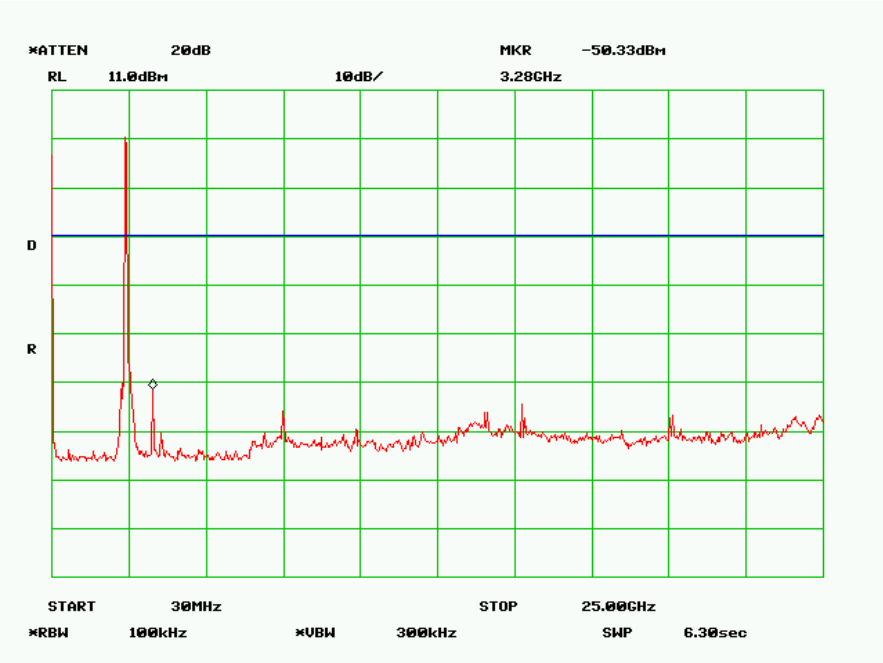
802.11n40 Low Channel, TX2



802.11n40 Middle Channel, TX2



802.11n40 High Channel, TX2



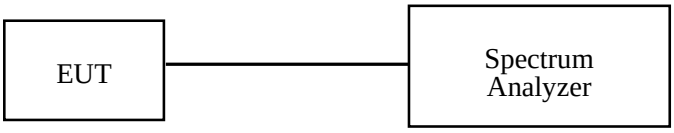
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable 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.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-11	2011-11-10

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56%
ATM Pressure:	100.0kPa

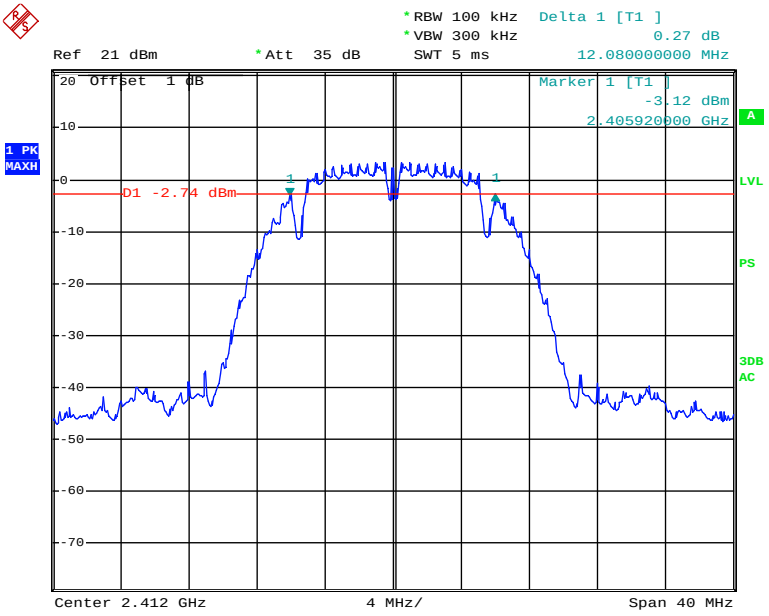
The testing was performed by Bruce Zhang on 2011-07-19 and 2011-9-12.

Test Result: Pass.

Please refer to the following tables and plots.

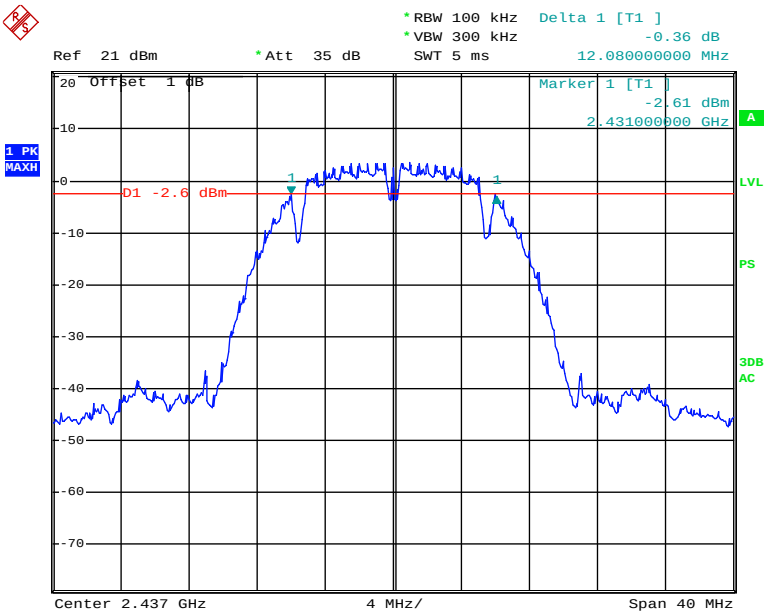
Channel	Frequency (MHz)	Antenna Port	Data Rate (Mbps)	6 dB Emission Bandwidth (MHz)	FCC Part 15.247 Limit (kHz)
802.11b mode					
Low	2412	TX0	1	12.08	> 500
Middle	2437	TX0	1	12.08	> 500
High	2462	TX0	1	12.08	> 500
802.11g mode					
Low	2412	TX0	6	16.32	> 500
Middle	2437	TX0	6	16.16	> 500
High	2462	TX0	6	15.92	> 500
802.11n20 mode					
Low	2412	TX0	6.5	16.64	> 500
		TX1	6.5	16.80	> 500
Middle	2437	TX0	6.5	16.40	> 500
		TX1	6.5	16.80	> 500
High	2462	TX0	6.5	16.64	> 500
		TX1	6.5	16.56	> 500
802.11n40 mode					
Low	2422	TX0	6.5	35.36	> 500
		TX1	6.5	35.20	> 500
Middle	2437	TX0	6.5	35.36	> 500
		TX1	6.5	35.36	> 500
High	2452	TX0	6.5	35.36	> 500
		TX1	6.5	35.20	> 500

802.11b Low Channel



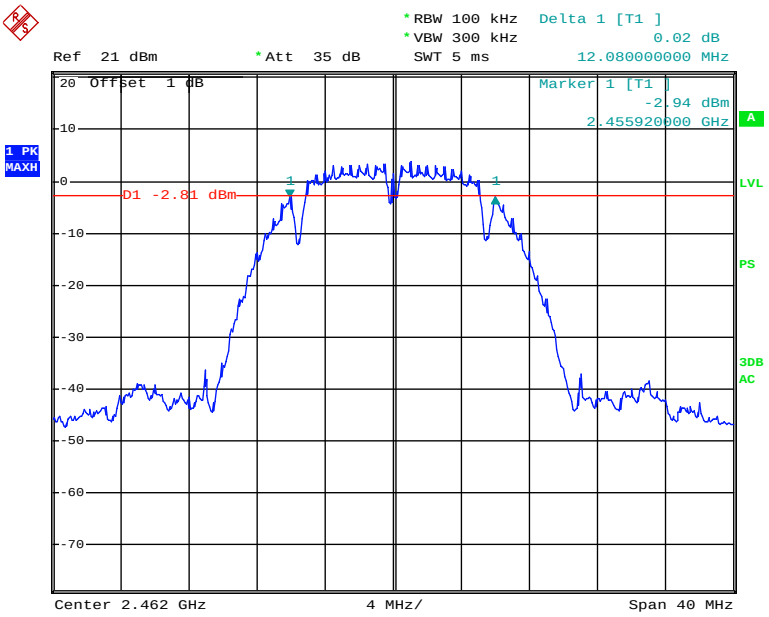
Date: 21.JUL.2011 10:12:08

802.11b Middle Channel



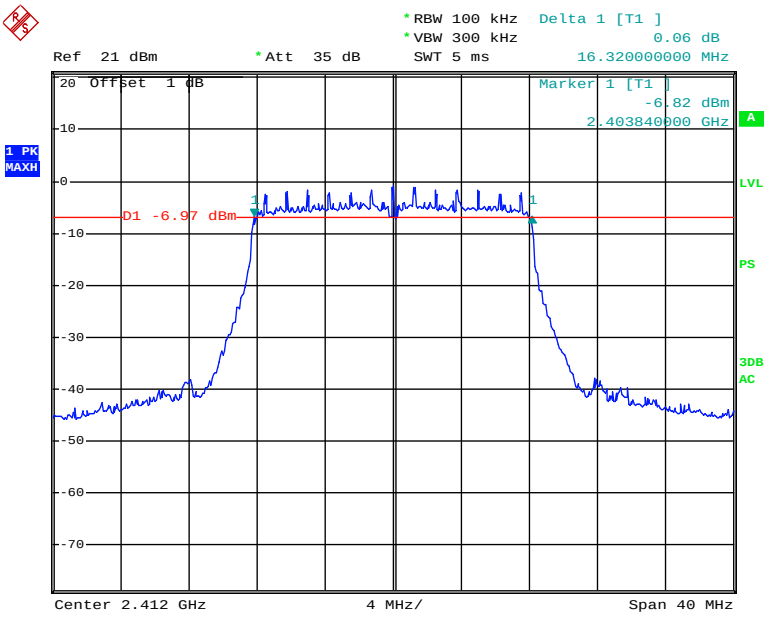
Date: 21.JUL.2011 10:13:27

802.11b High Channel



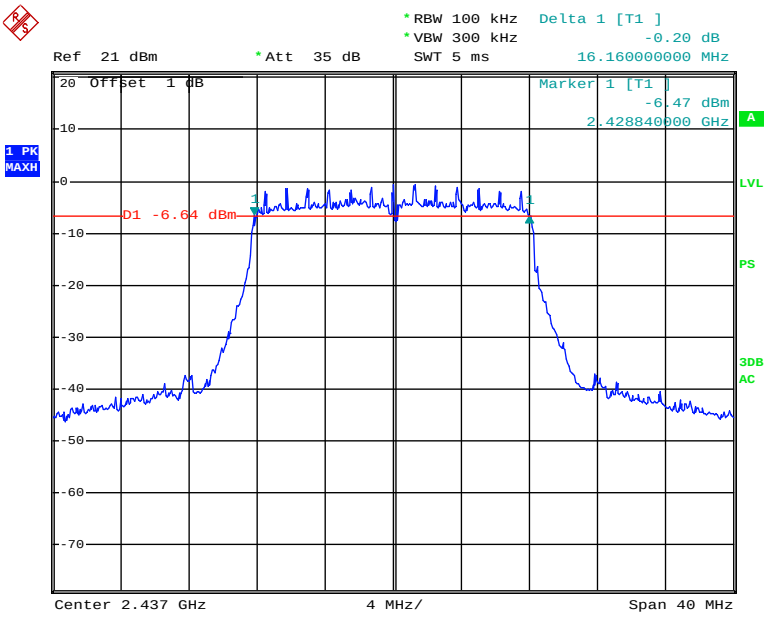
Date: 21.JUL.2011 10:36:20

802.11g Low Channel



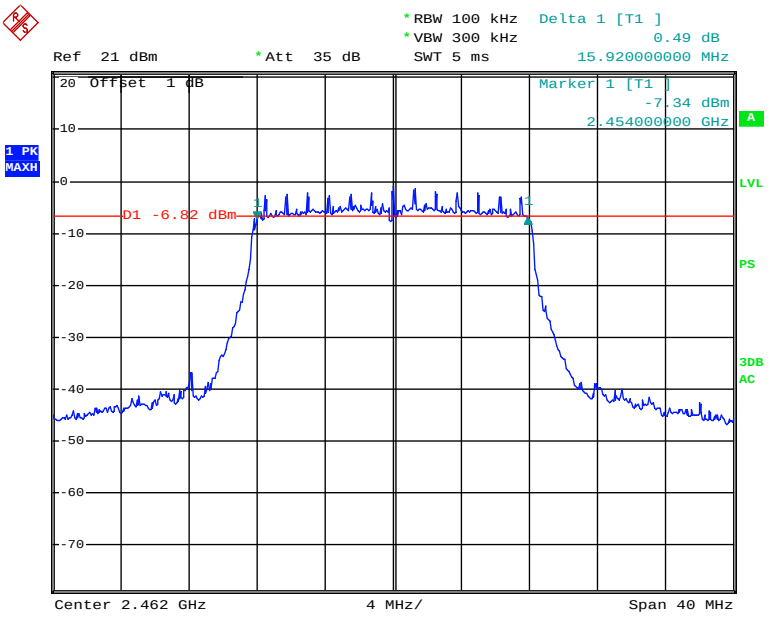
Date: 21.JUL.2011 10:56:52

802.11g Middle Channel



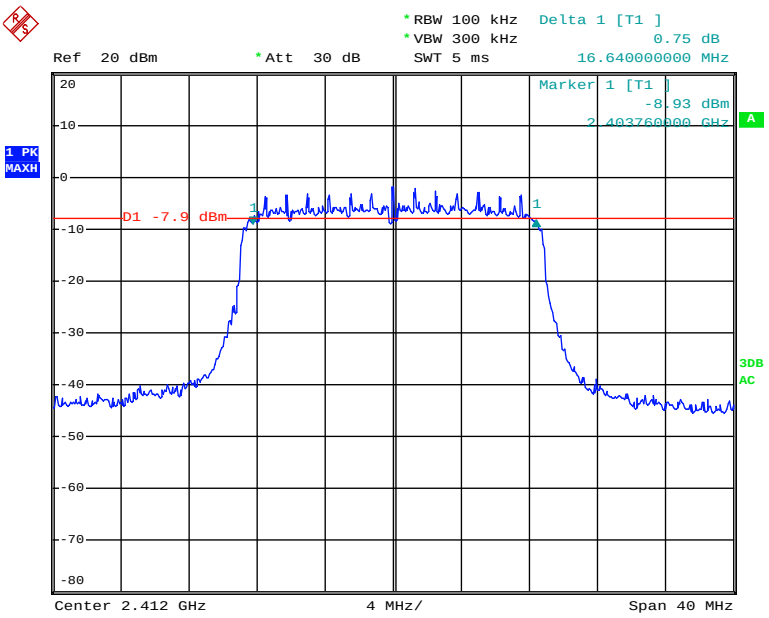
Date: 21.JUL.2011 10:43:38

802.11g High Channel



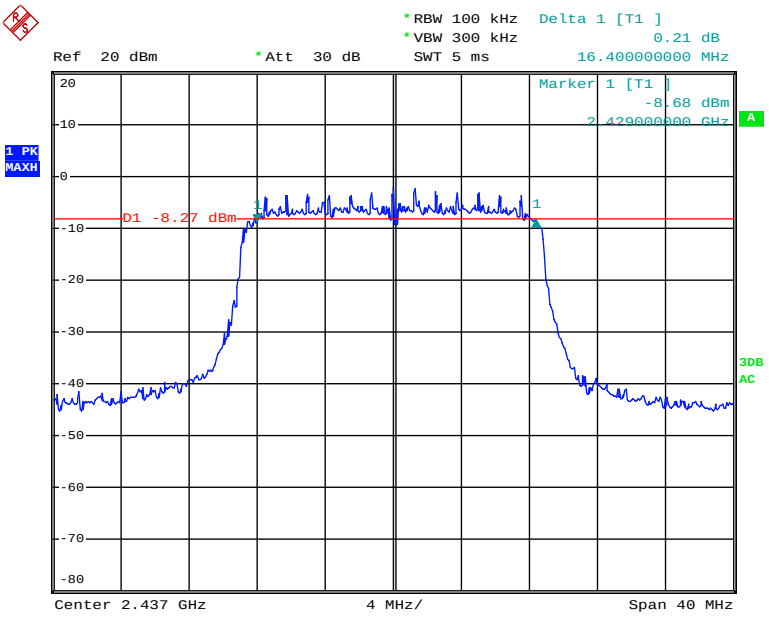
Date: 21.JUL.2011 10:38:20

802.11n20 Low Channel, TX0



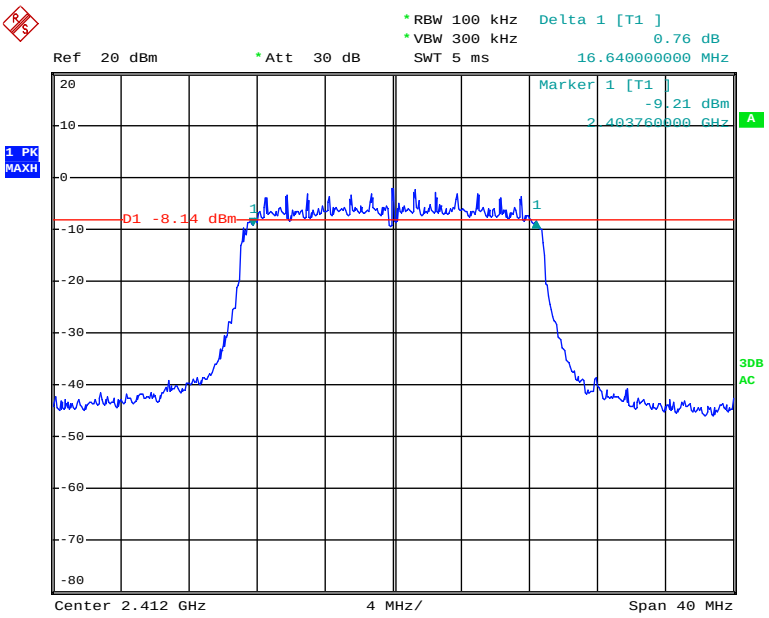
Date: 19.JUL.2011 11:54:04

802.11n20 Middle Channel, TX0



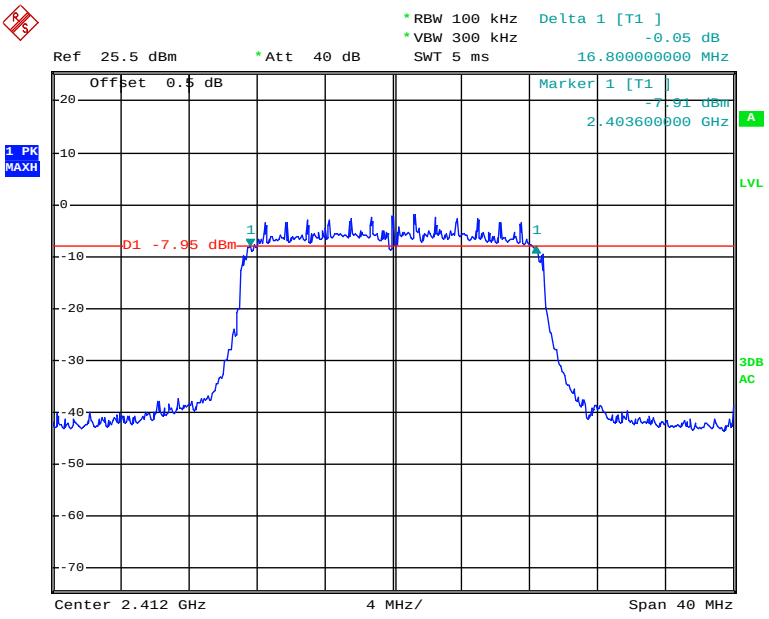
Date: 19.JUL.2011 11:56:46

802.11n20 High Channel, TX0



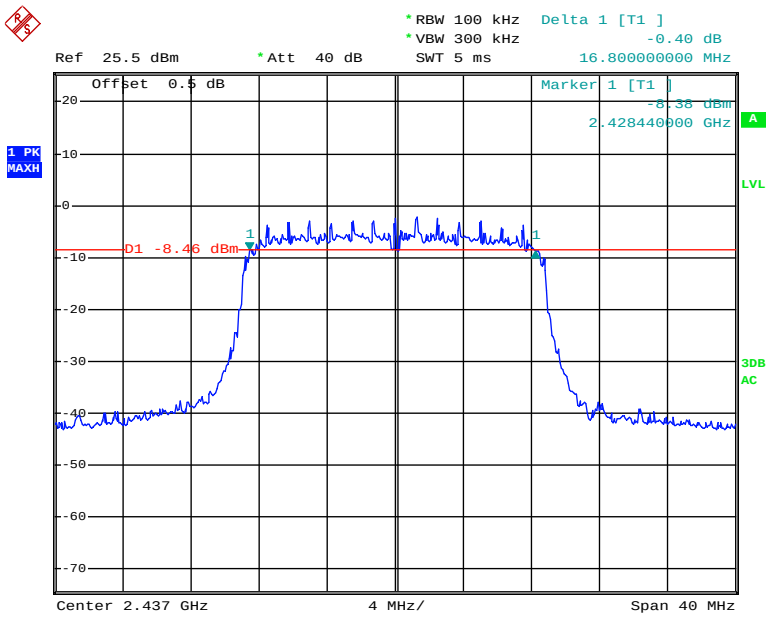
Date: 19.JUL.2011 11:58:13

802.11n20 Low Channel, TX1



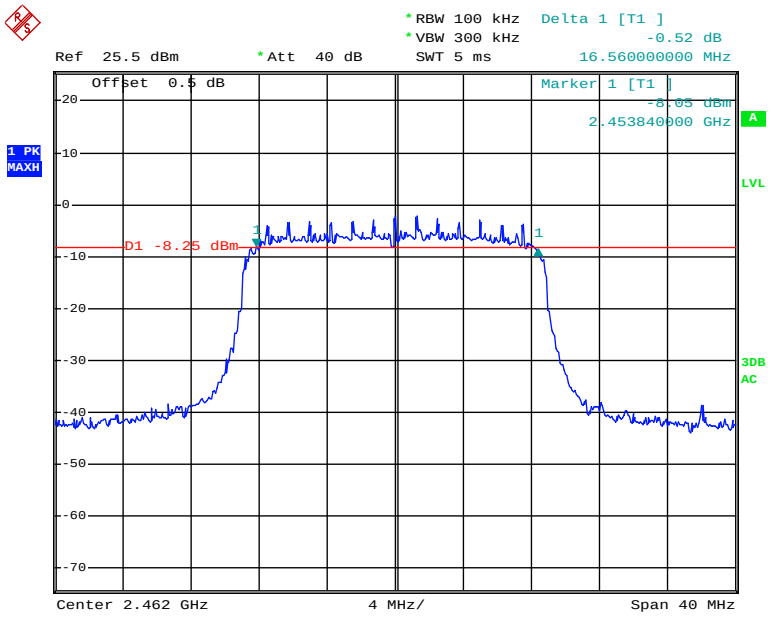
Date: 12.SEP.2011 09:36:45

802.11n20 Middle Channel, TX1



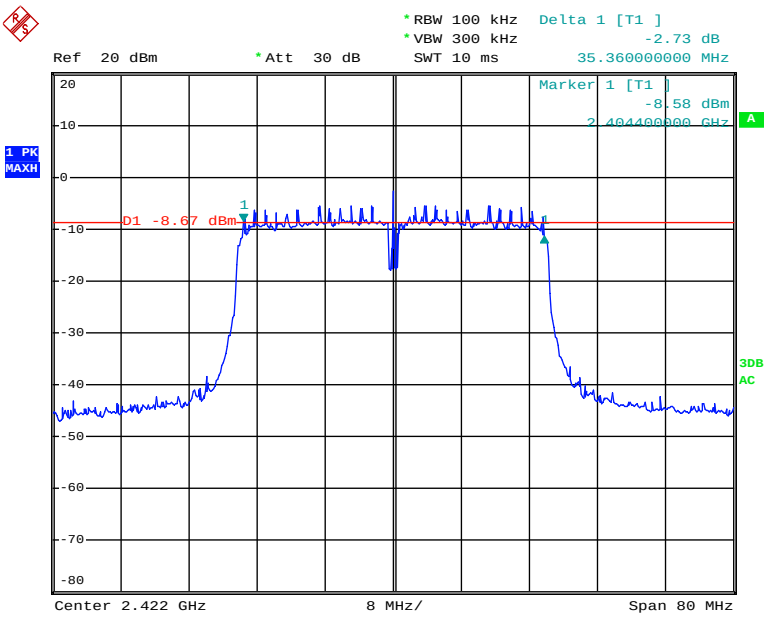
Date: 12.SEP.2011 09:43:05

802.11n20 High Channel, TX1



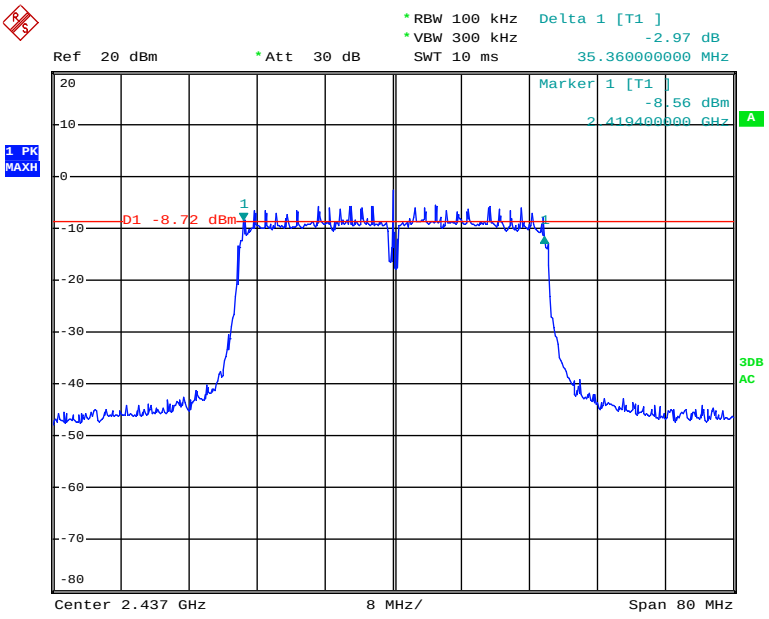
Date: 12.SEP.2011 09:45:38

802.11n40 Low Channel, TX0



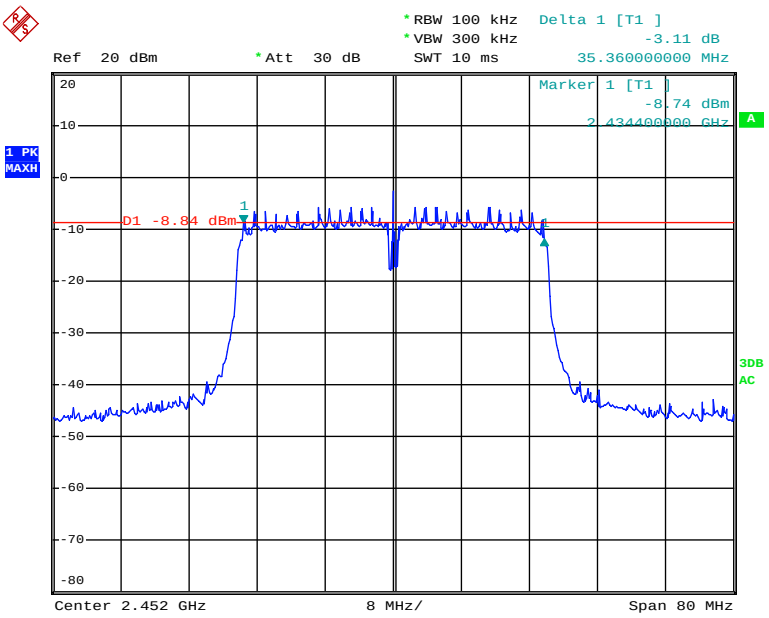
Date: 19.JUL.2011 11:48:46

802.11n40 Middle Channel, TX0



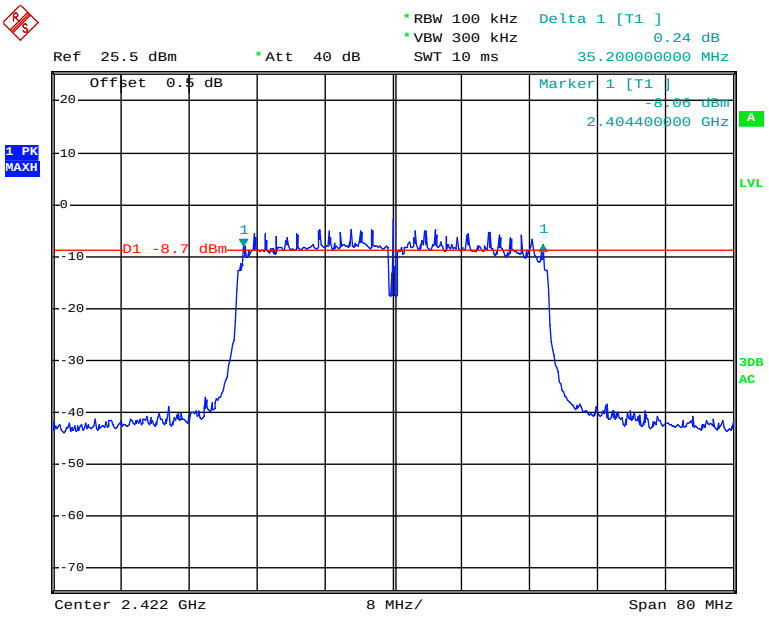
Date: 19.JUL.2011 11:50:01

802.11n40 High Channel, TX0



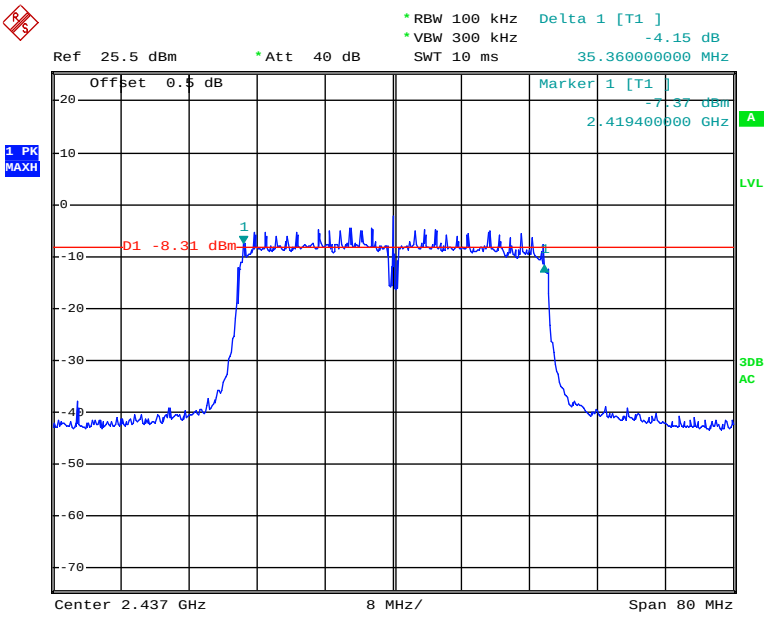
Date: 19.JUL.2011 11:52:31

802.11n40 Low Channel, TX1



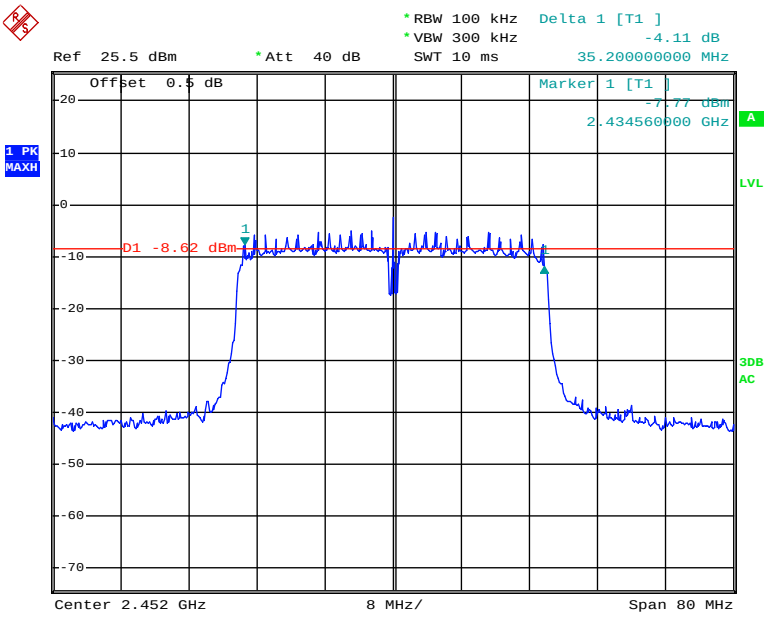
Date: 12.SEP.2011 09:47:39

802.11n40 Middle Channel, TX1



Date: 12.SEP.2011 09:49:28

802.11n40 High Channel, TX1



Date: 12.SEP.2011 09:50:56

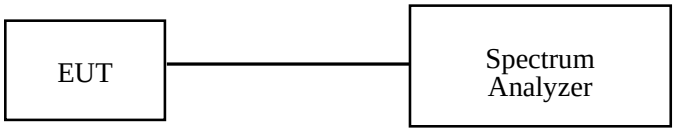
FCC §15.247(b) - MAXIMUM PEAK OUTPUT POWER

Applicable Standard

According to FCC §15.247(b)

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI Test Receiver.
3. Add a correction factor to the display.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-11	2011-11-10

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Bruce Zhang on 2011-07-11.

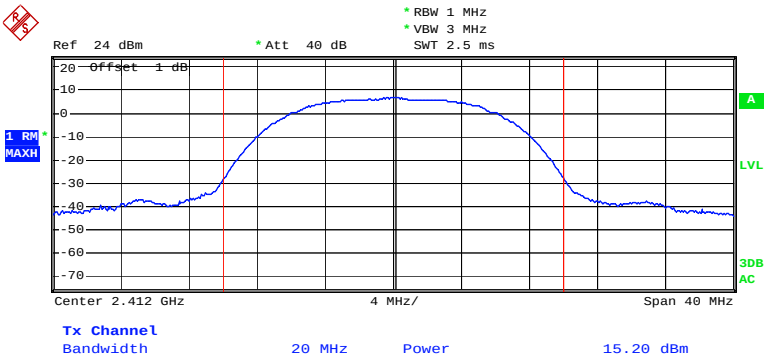
Test Mode: Transmitting

Channel	Frequency (MHz)	Data Rate (Mbps)	Antenna Port	Conducted Output Power (dBm)	Total Power (dBm)	Limit (dBm)	Result
802.11b mode							
Low	2412	1	TX0	15.20	/	27	Pass
Middle	2437	1	TX0	15.30	/	27	Pass
High	2462	1	TX0	15.50	/	27	Pass
802.11g mode							
Low	2412	6	TX0	13.22	/	27	Pass
Middle	2437	6	TX0	13.31	/	27	Pass
High	2462	6	TX0	13.31	/	27	Pass
802.11n20 mode							
Low	2412	6.5	TX0	12.64	15.53	27	Pass
Low	2412	6.5	TX1	12.39			
Middle	2437	6.5	TX0	12.28	15.45	27	Pass
Middle	2437	6.5	TX1	12.59			
High	2462	6.5	TX0	12.29	15.50	27	Pass
High	2462	6.5	TX1	12.68			
802.11n40 mode							
Low	2422	6.5	TX0	13.24	16.21	27	Pass
Low	2422	6.5	TX1	13.16			
Middle	2437	6.5	TX0	12.87	16.04	27	Pass
Middle	2437	6.5	TX1	13.18			
High	2452	6.5	TX0	12.77	15.91	27	Pass
High	2452	6.5	TX1	13.02			

Note: The Antenna gain of EUT is 14 dBi, According to FCC § 15.247(b), for P-to-P operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

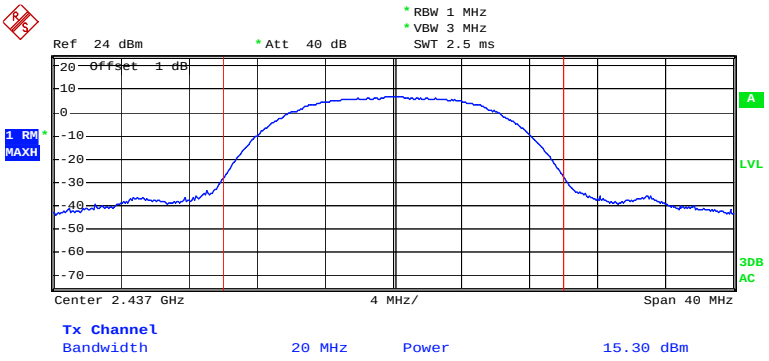
The power limit is 30 - 3 = 27 dBm.

802.11b RF Output Power, Low Channel



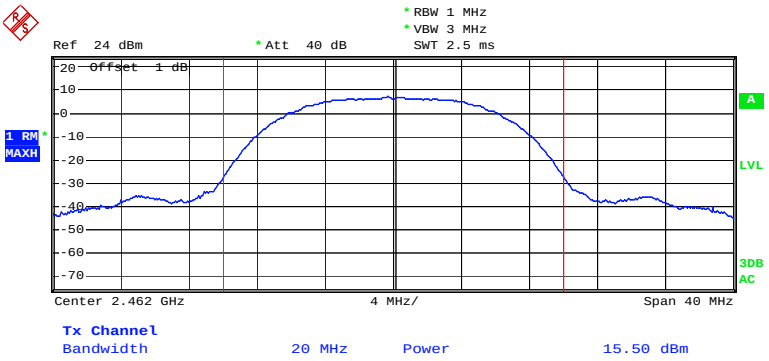
Date: 11.JUL.2011 08:35:09

802.11b RF Output Power, Middle Channel



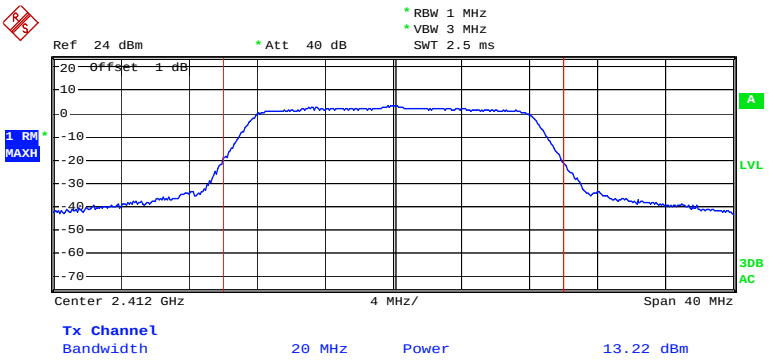
Date: 11.JUL.2011 08:34:12

802.11b RF Output Power, High Channel



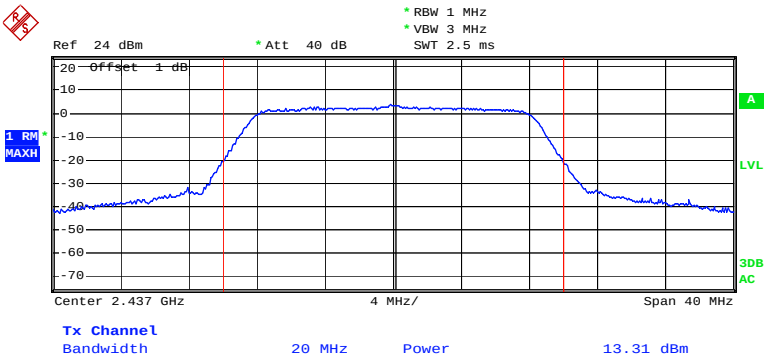
Date: 11.JUL.2011 08:36:04

802.11g RF Output Power, Low Channel



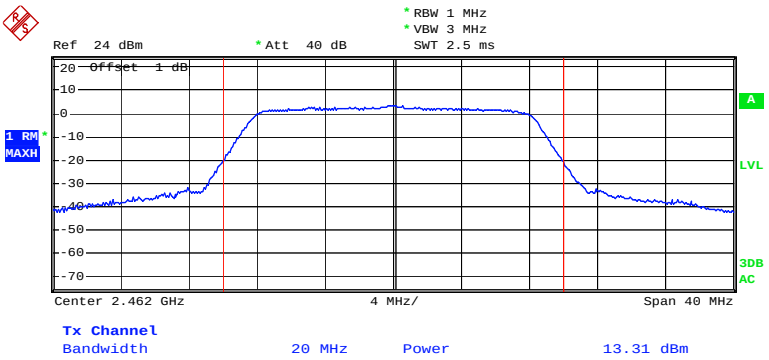
Date: 11.JUL.2011 08:45:38

802.11g RF Output Power, Middle Channel



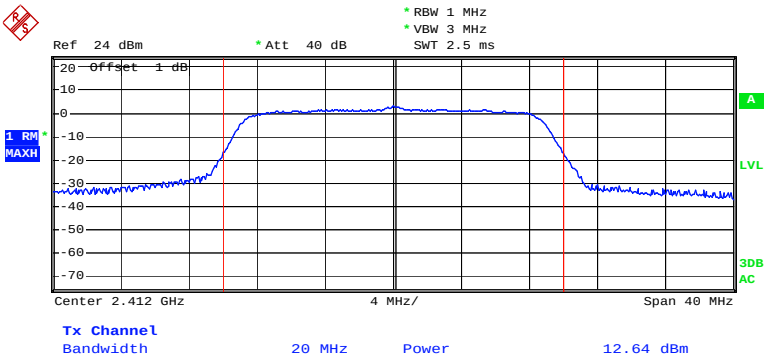
Date: 11.JUL.2011 08:44:23

802.11g RF Output Power, High Channel



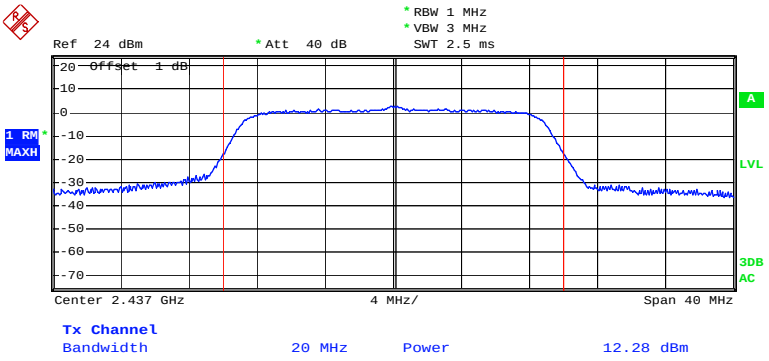
Date: 11.JUL.2011 08:47:45

802.11n20 RF Output Power, Low Channel, TX0



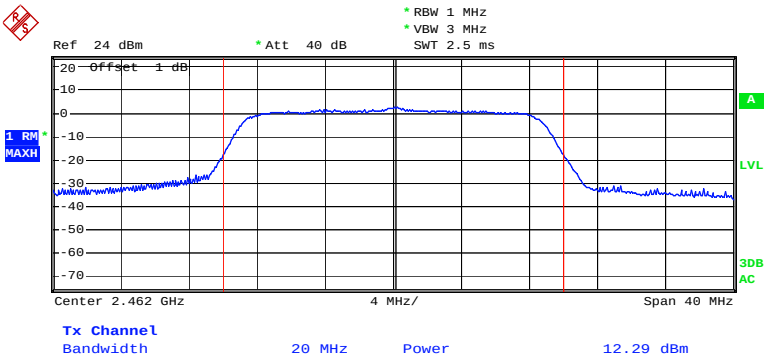
Date: 11.JUL.2011 09:01:48

802.11n20 RF Output Power, Middle Channel, TX0



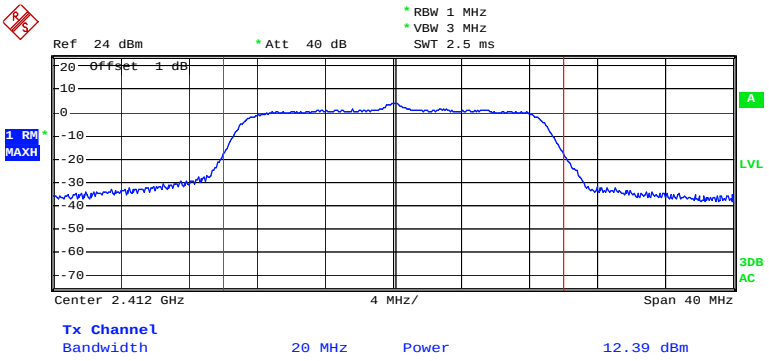
Date: 11.JUL.2011 09:06:00

802.11n20 RF Output Power, High Channel, TX0



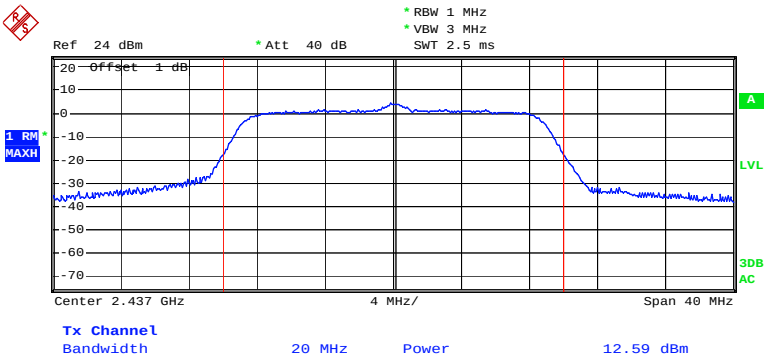
Date: 11.JUL.2011 09:09:33

802.11n20 RF Output Power, Low Channel, TX1



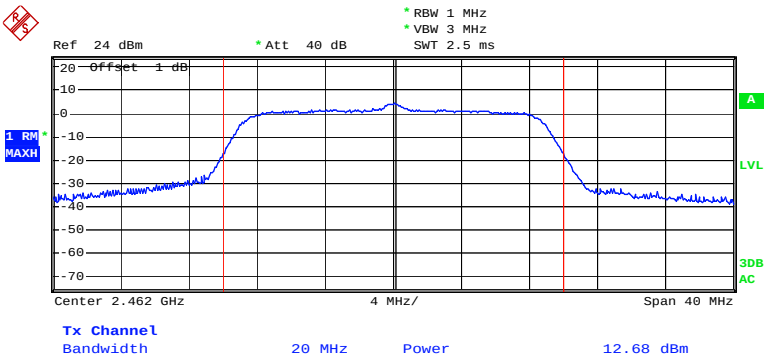
Date: 11.JUL.2011 09:29:13

802.11n20 RF Output Power, Middle Channel, TX1



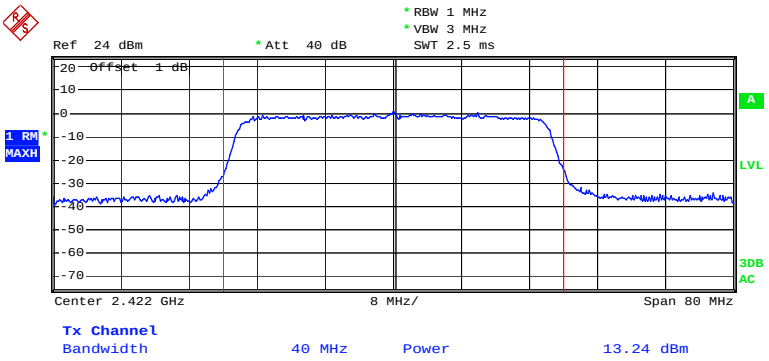
Date: 11.JUL.2011 09:25:27

802.11n20 RF Output Power, High Channel, TX1



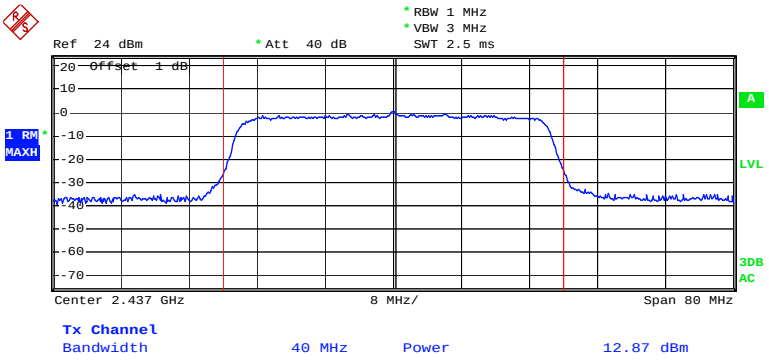
Date: 11.JUL.2011 09:23:00

802.11n40 RF Output Power, Low Channel, TX0



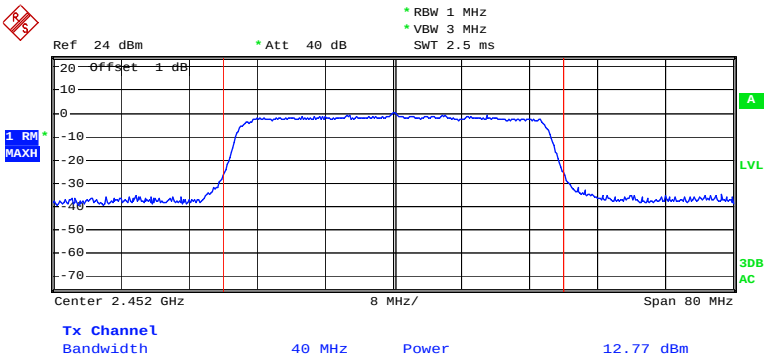
Date: 11.JUL.2011 09:14:39

802.11n40 RF Output Power, Middle Channel, TX0



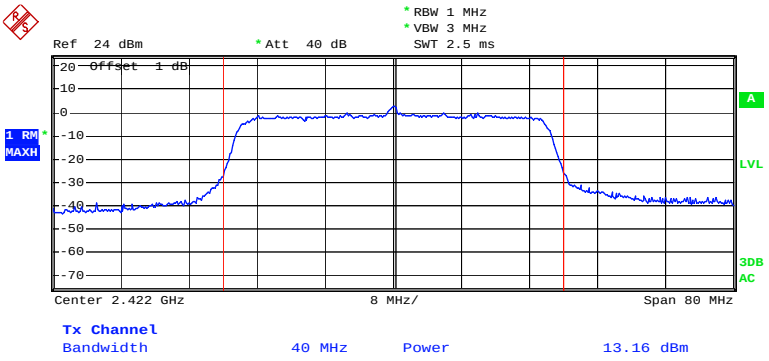
Date: 11.JUL.2011 09:12:53

802.11n40 RF Output Power, High Channel, TX0



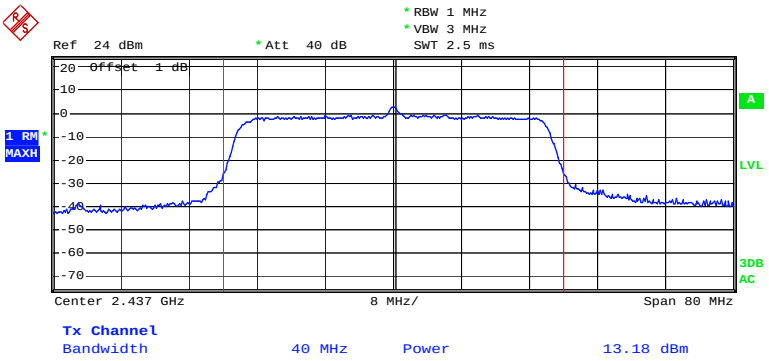
Date: 11.JUL.2011 09:11:42

802.11n40 RF Output Power, Low Channel, TX1



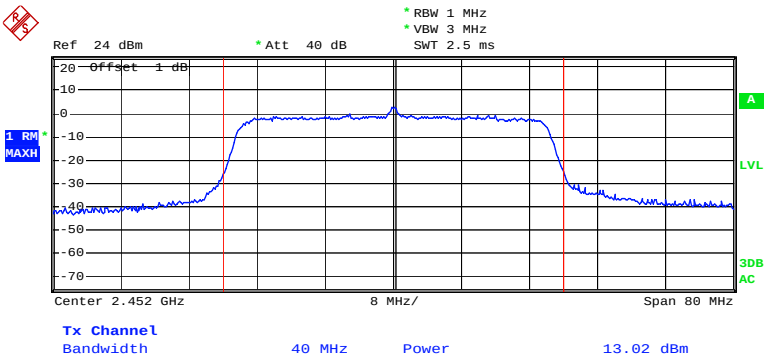
Date: 11.JUL.2011 09:17:05

802.11n40 RF Output Power, Middle Channel, TX1



Date: 11.JUL.2011 09:18:47

802.11n40 RF Output Power, High Channel, TX1



Date: 11.JUL.2011 09:20:59

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

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 §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 1 MHz and VBW of spectrum analyzer to 1 MHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-11	2011-11-10

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

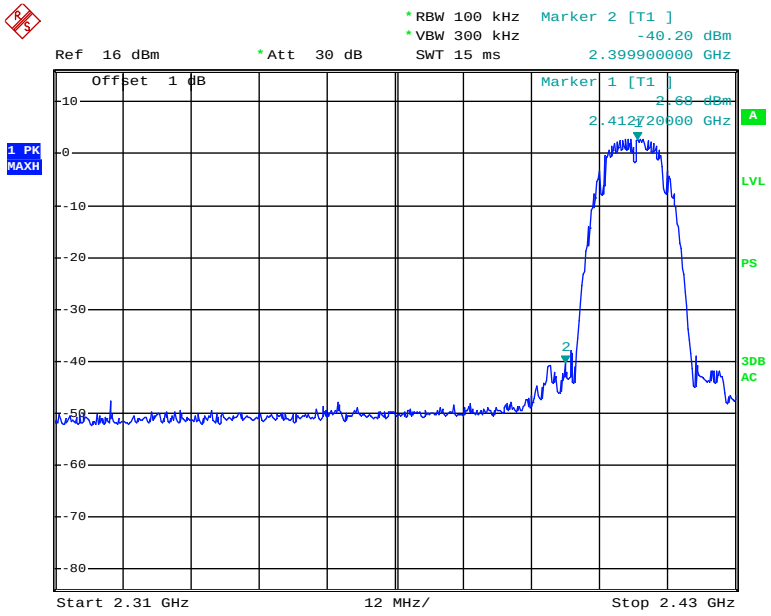
The testing was performed by Bruce Zhang on 2011-07-21 and 2011-09-12.

Test Result: *Compliance*

Frequency (MHz)	Antenna Port	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
802.11b mode				
2399.9	TX0	42.80	20	Pass
2483.6	TX0	51.38	20	Pass
802.11g mode				
2399.9	TX0	38.45	20	Pass
2483.6	TX0	48.11	20	Pass
802.11n20 mode				
2399.9	TX0	37.08	20	Pass
2399.9	TX1	35.95	20	Pass
2483.6	TX0	43.43	20	Pass
2483.6	TX1	41.92	20	Pass
802.11n40 mode				
2399.9	TX0	40.01	20	Pass
2399.9	TX1	36.73	20	Pass
2483.6	TX0	43.18	20	Pass
2483.6	TX1	39.77	20	Pass

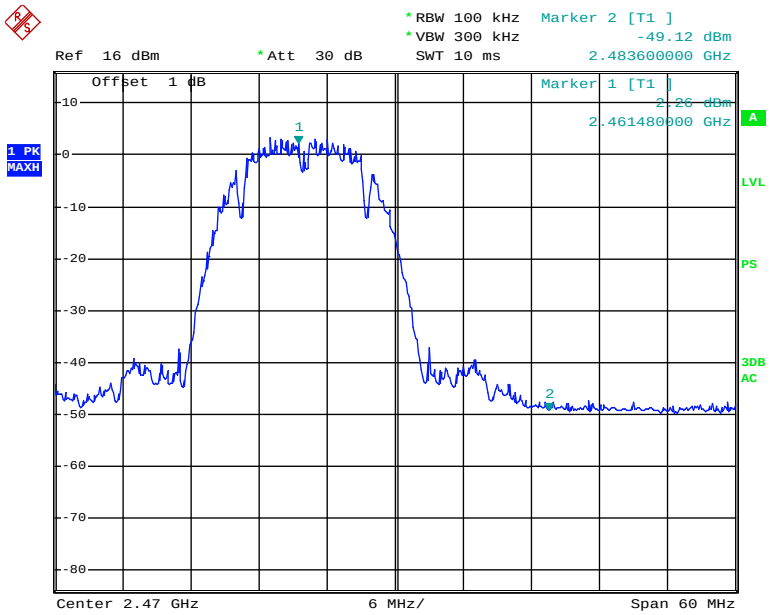
Please refer to following plots.

802.11b: Band Edge, Left Side



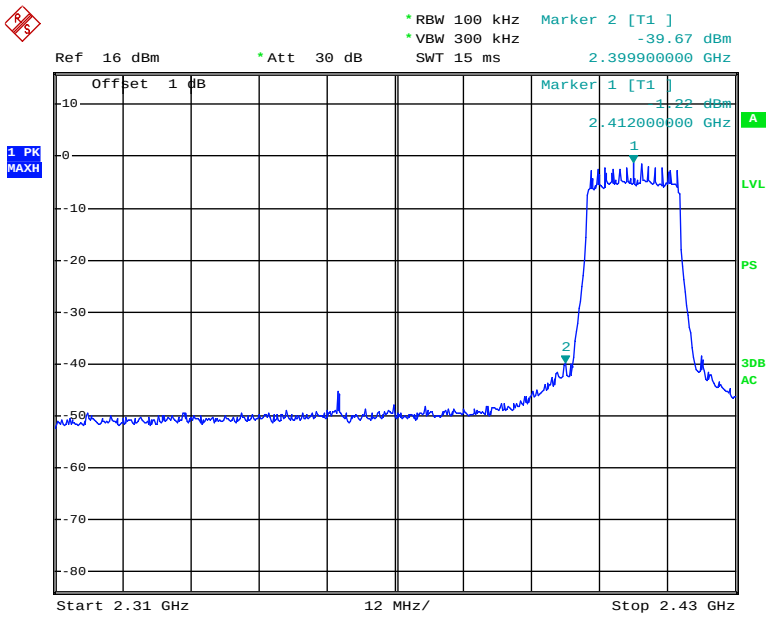
Date: 21.JUL.2011 11:19:51

802.11b: Band Edge, Right Side



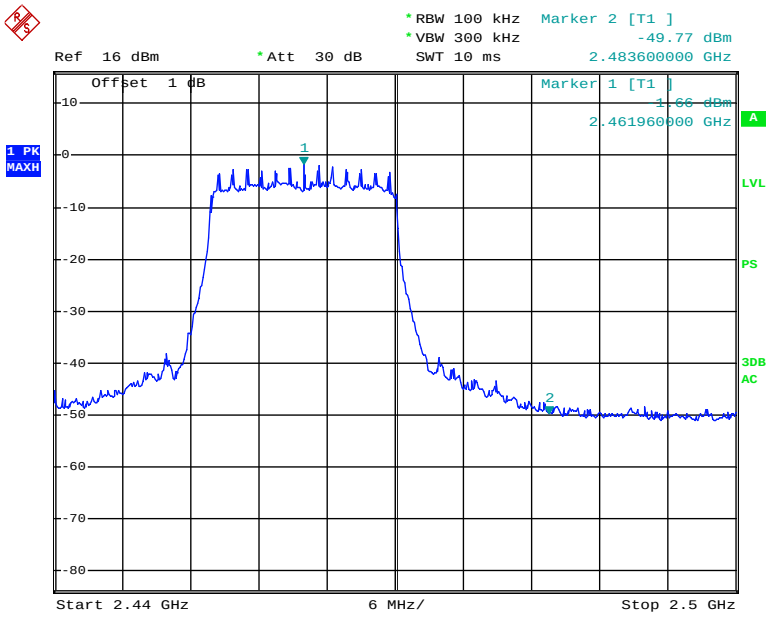
Date: 21.JUL.2011 11:18:54

802.11g: Band Edge, Left Side



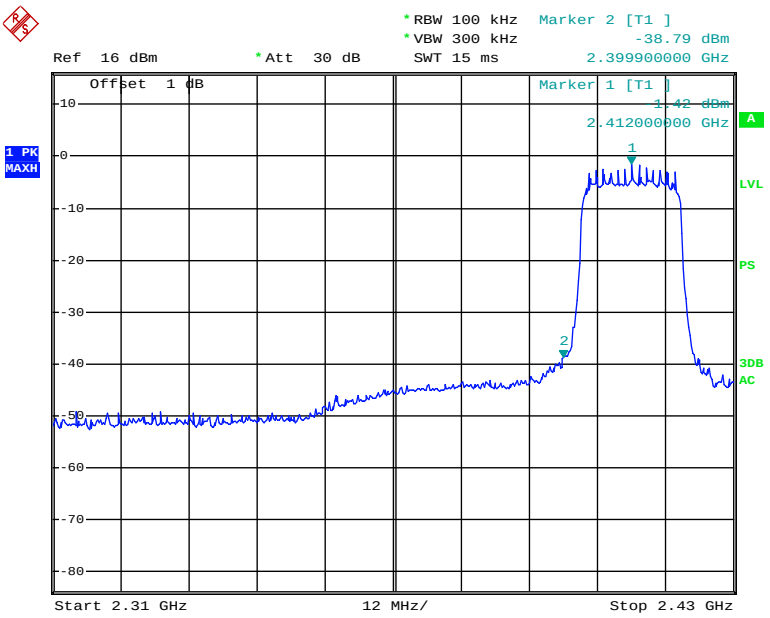
Date: 21.JUL.2011 11:04:17

802.11g: Band Edge, Right Side



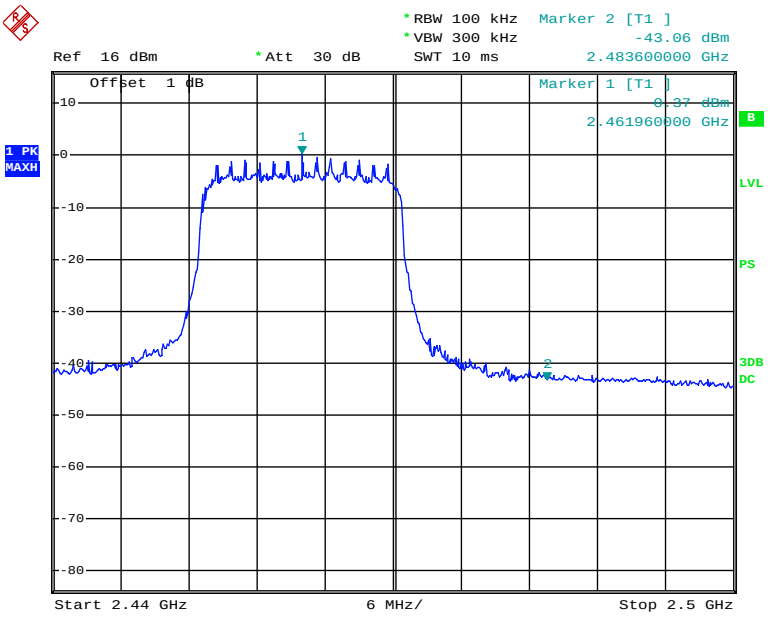
Date: 21.JUL.2011 11:05:58

802.11n20: Band Edge, Left Side, TX0



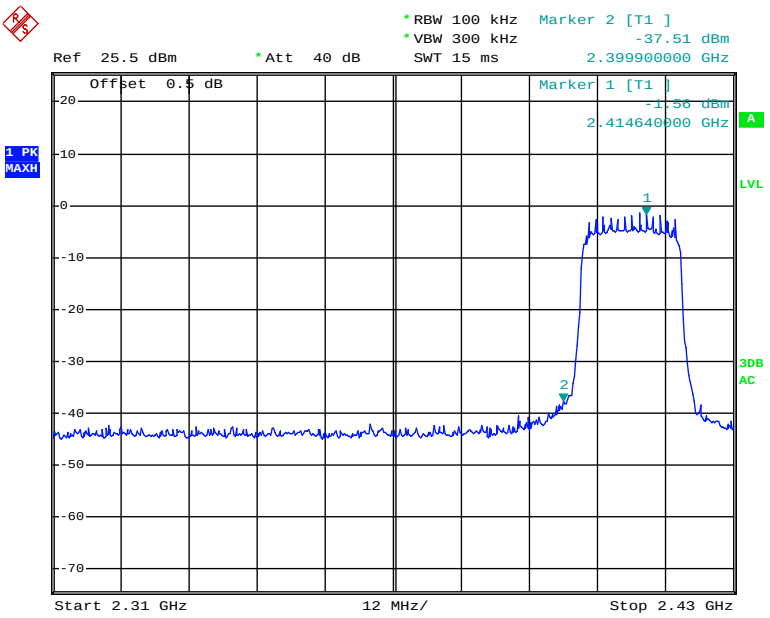
Date: 21.JUL.2011 11:31:23

802.11n20: Band Edge, Right Side, TX0



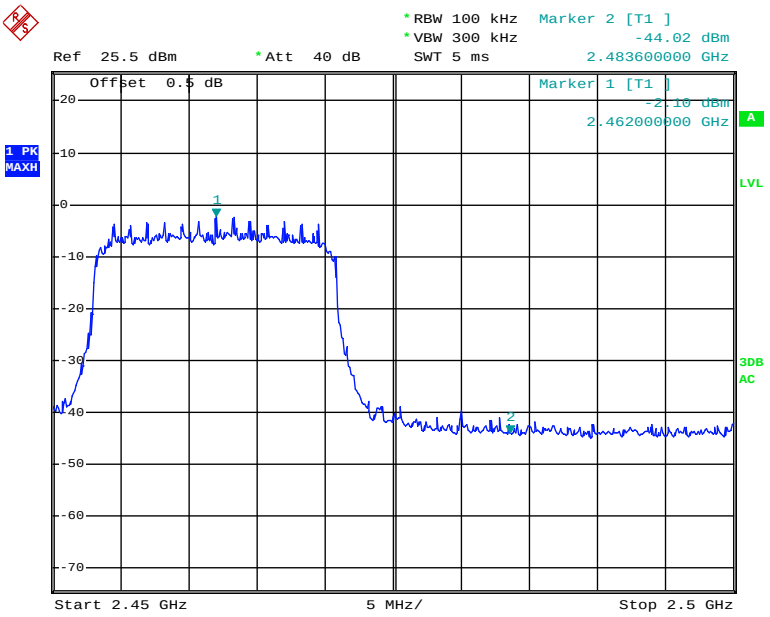
Date: 21.JUL.2011 13:30:35

802.11n20: Band Edge, Left Side, TX1



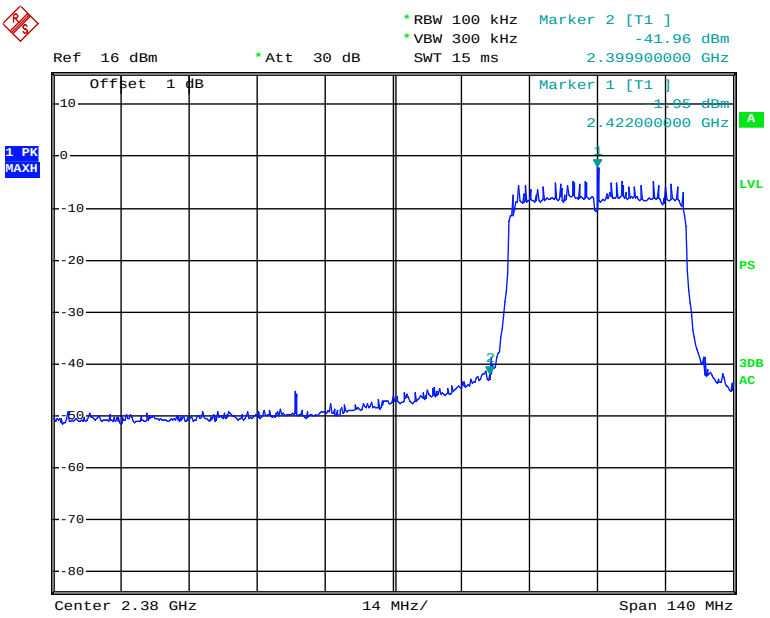
Date: 12.SEP.2011 09:56:40

802.11n20: Band Edge, Right Side, TX1



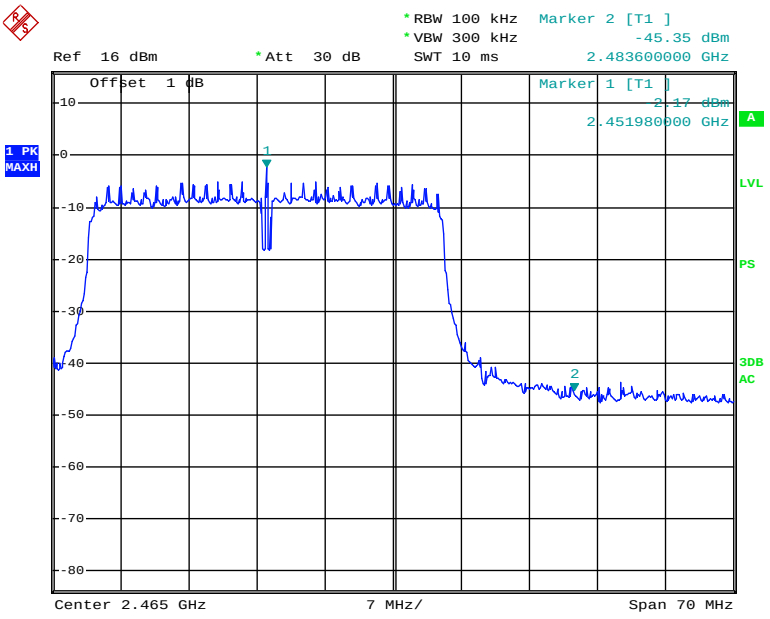
Date: 12.SEP.2011 09:57:53

802.11n40: Band Edge, Left Side, TX0



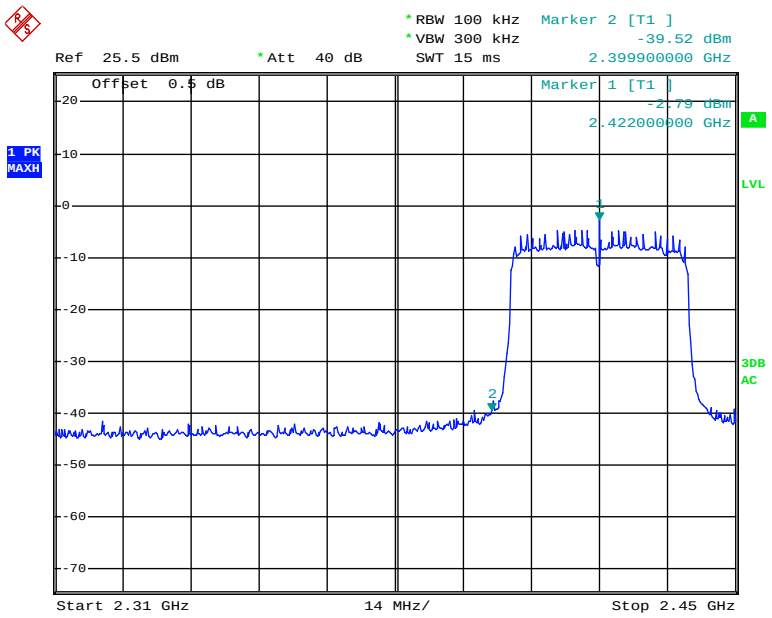
Date: 21.JUL.2011 11:37:03

802.11n40: Band Edge, Right Side, TX0



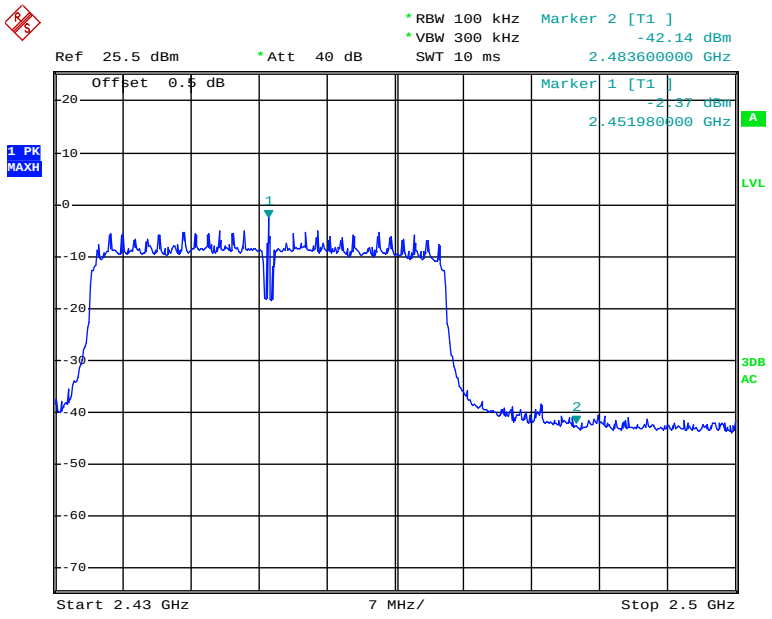
Date: 21.JUL.2011 11:39:19

802.11n40: Band Edge, Left Side, TX1



Date: 12.SEP.2011 09:55:38

802.11n40: Band Edge, Right Side, TX1



Date: 12.SEP.2011 09:54:03

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of SA on any frequency be measured and set SA to 1.5MHz span mode. And then, set RBW and VBW of spectrum analyzer to proper value. (DTS)
4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-11	2011-11-10

*** Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

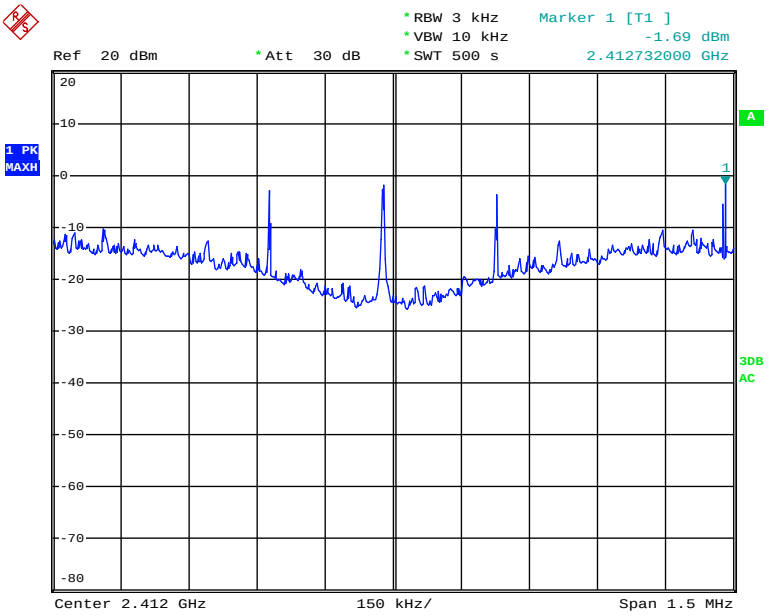
The testing was performed by Bruce Zhang on 2011-07-11 to 2011-09-12.

Test Mode: Transmitting

Test Result: Pass

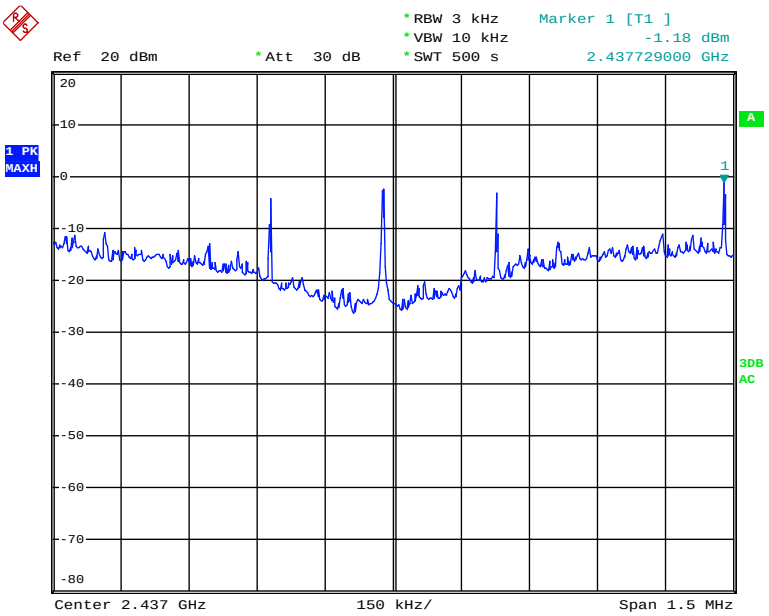
Channel	Frequency (MHz)	Data Rate (Mbps)	Antenna Port	PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11b mode							
Low	2412	1	TX0	-1.69	/	8	Pass
Middle	2437	1	TX0	-1.18	/	8	Pass
High	2462	1	TX0	0.29	/	8	Pass
802.11g mode							
Low	2412	6	TX0	-3.68	/	8	Pass
Middle	2437	6	TX0	-3.83	/	8	Pass
High	2462	6	TX0	-3.88	/	8	Pass
802.11n20 mode							
Low	2412	6.5	TX0	-3.48	-0.49	8	Pass
Low	2412	6.5	TX1	-3.52			
Middle	2437	6.5	TX0	-3.67	-0.31	8	Pass
Middle	2437	6.5	TX1	-2.99			
High	2462	6.5	TX0	-3.94	-0.77	8	Pass
High	2462	6.5	TX1	-3.62			
802.11n40 mode							
Low	2422	6.5	TX0	-3.62	-0.60	8	Pass
Low	2422	6.5	TX1	-3.61			
Middle	2437	6.5	TX0	-3.70	-0.43	8	Pass
Middle	2437	6.5	TX1	-2.97			
High	2452	6.5	TX0	-3.81	-0.57	8	Pass
High	2452	6.5	TX1	-3.37			

Power Spectral Density, 802.11b Low Channel



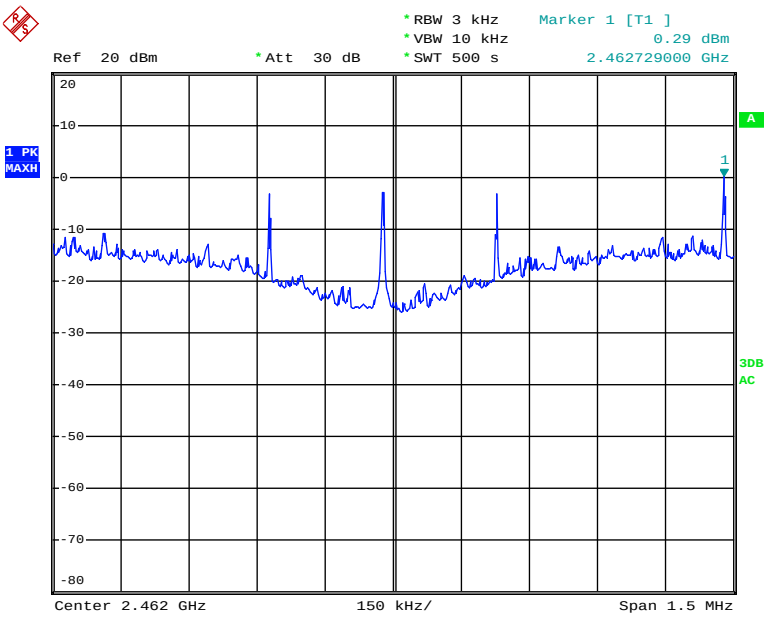
Date: 19.JUL.2011 08:56:19

Power Spectral Density, 802.11b Middle Channel



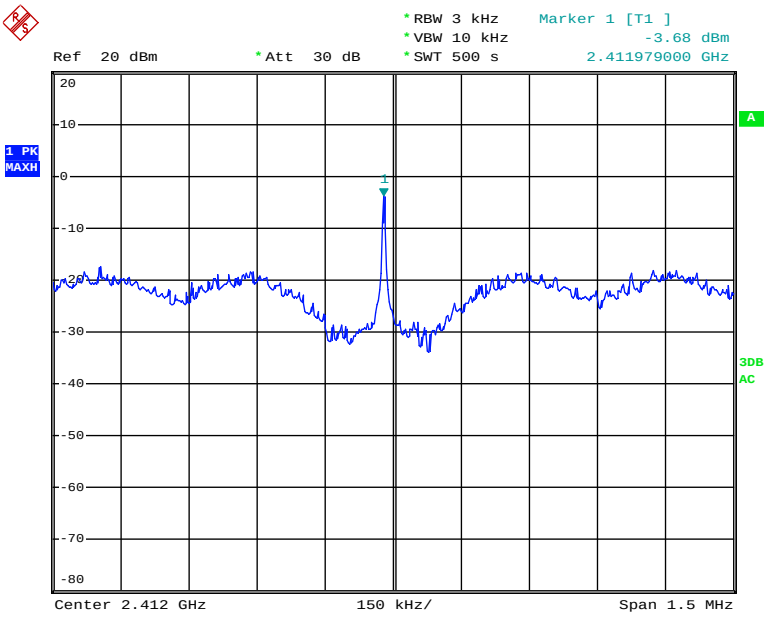
Date: 19.JUL.2011 09:34:06

Power Spectral Density, 802.11b High Channel



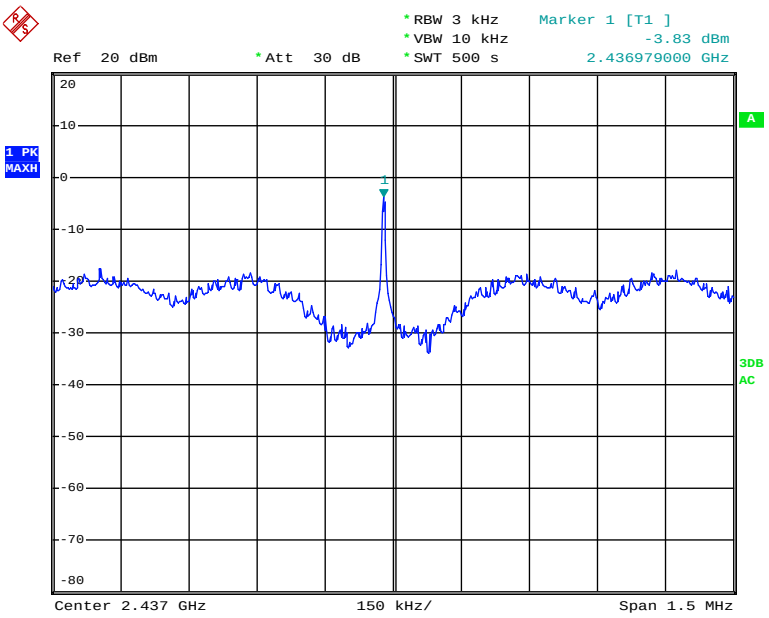
Date: 19.JUL.2011 09:52:24

Power Spectral Density, 802.11g Low Channel



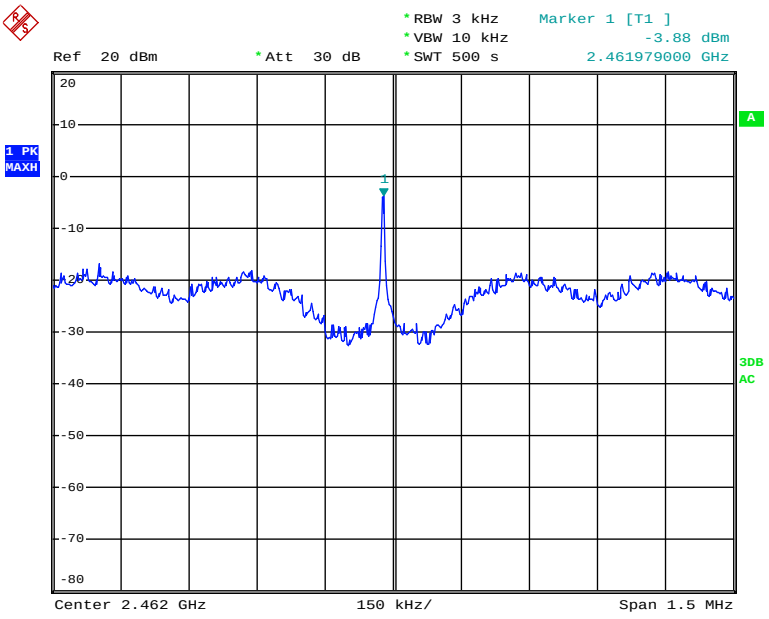
Date: 19.JUL.2011 10:21:18

Power Spectral Density, 802.11g Middle Channel



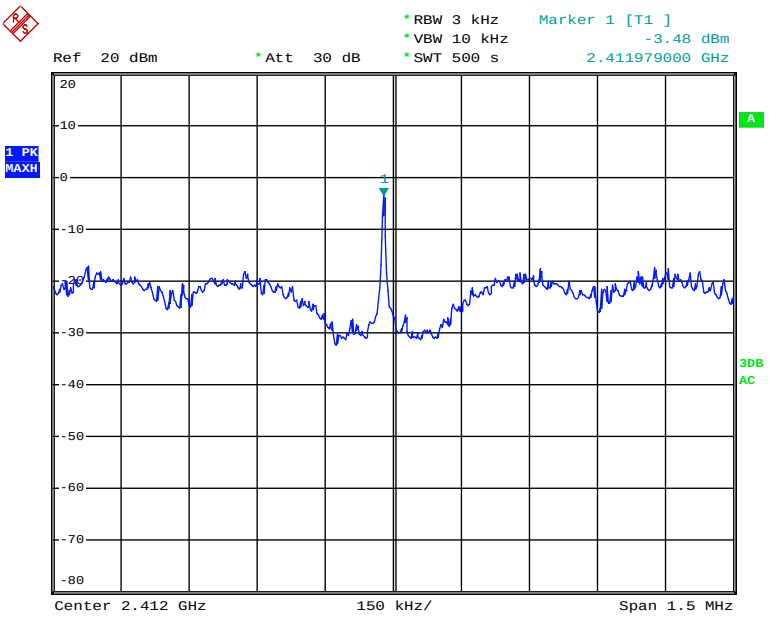
Date: 19.JUL.2011 10:10:55

Power Spectral Density, 802.11g High Channel



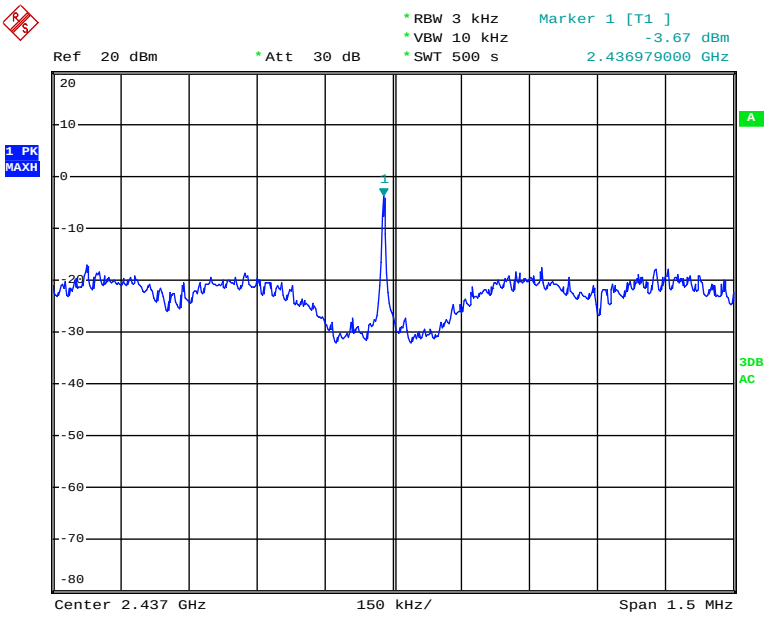
Date: 19.JUL.2011 10:01:54

Power Spectral Density, 802.11n20 Low Channel, TX0



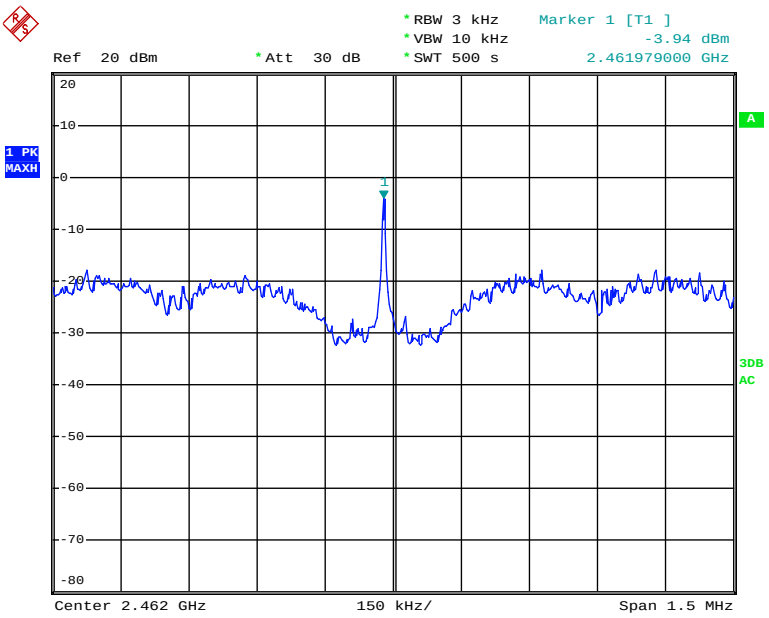
Date: 19.JUL.2011 10:38:52

Power Spectral Density, 802.11n20 Middle Channel, TX0



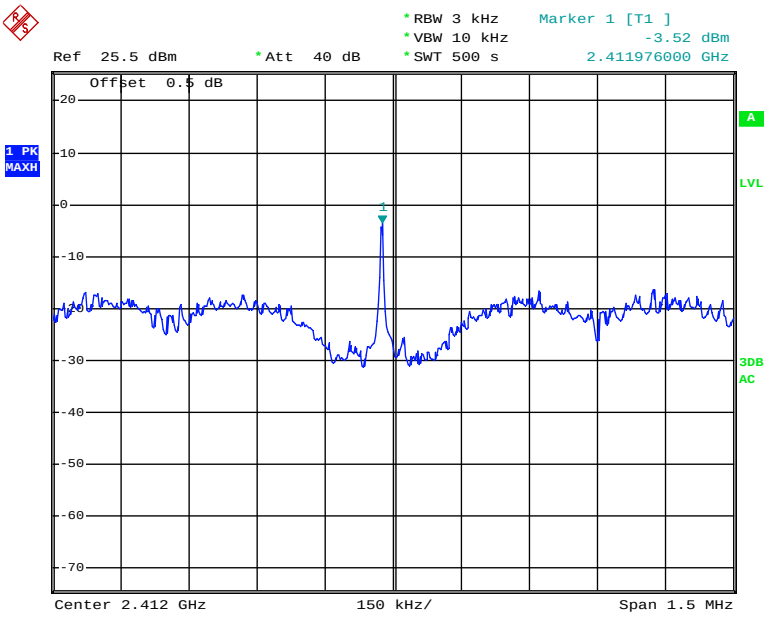
Date: 19.JUL.2011 10:48:46

Power Spectral Density, 802.11n20 High Channel, TX0



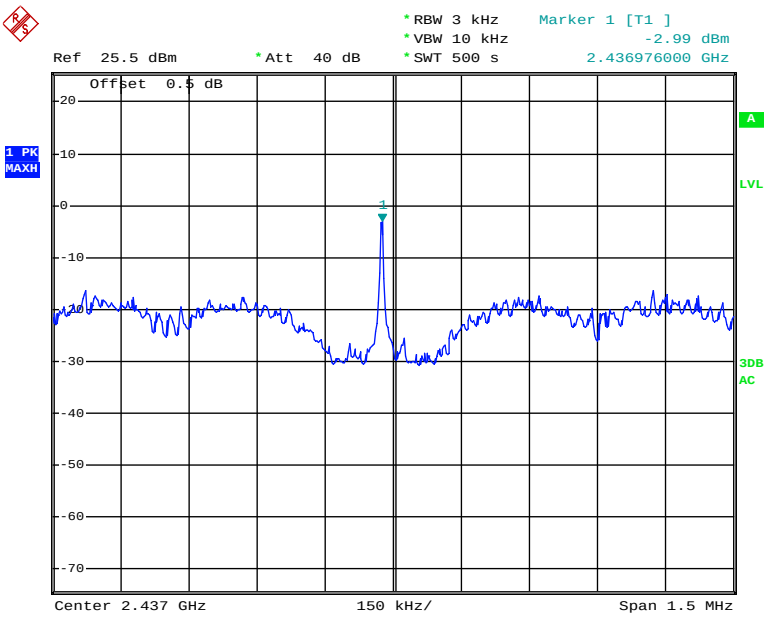
Date: 19.JUL.2011 10:58:26

Power Spectral Density, 802.11n20 Low Channel, TX1



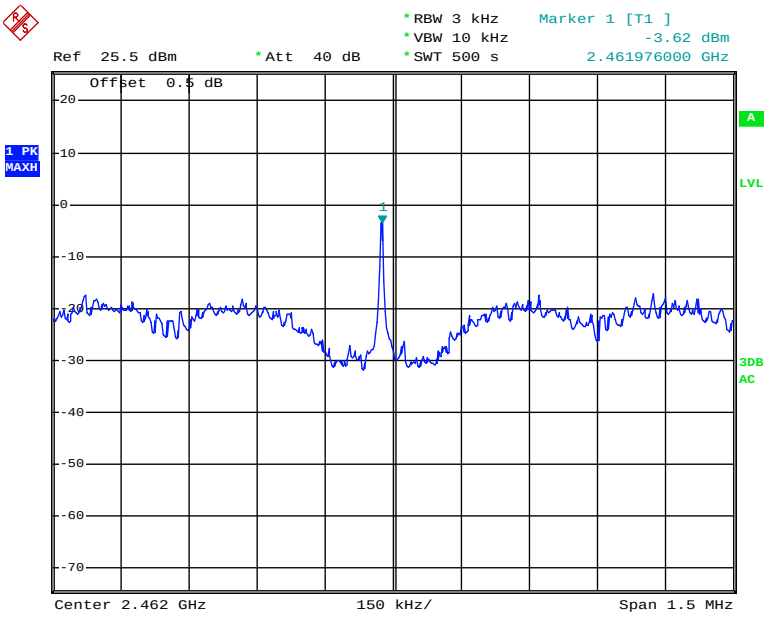
Date: 12.SEP.2011 10:35:40

Power Spectral Density, 802.11n20 Middle Channel, TX1



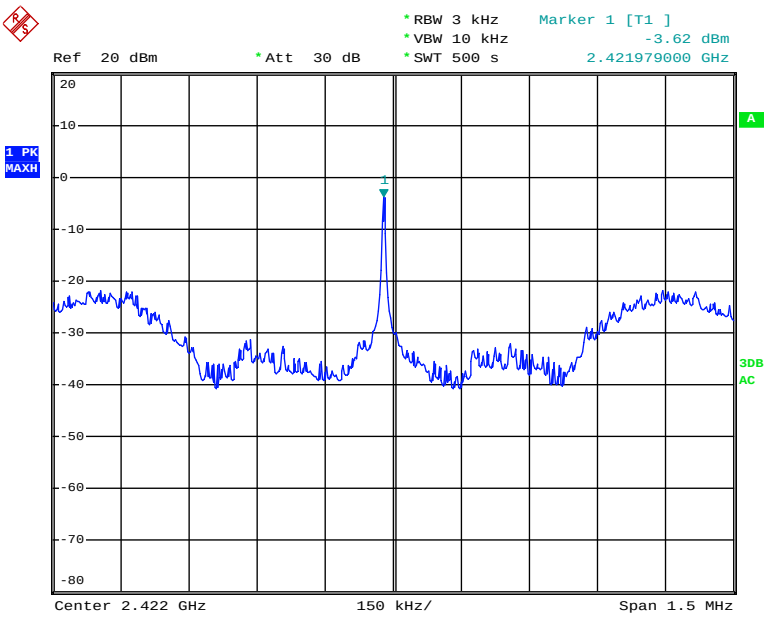
Date: 12.SEP.2011 10:21:42

Power Spectral Density, 802.11n20 High Channel, TX1



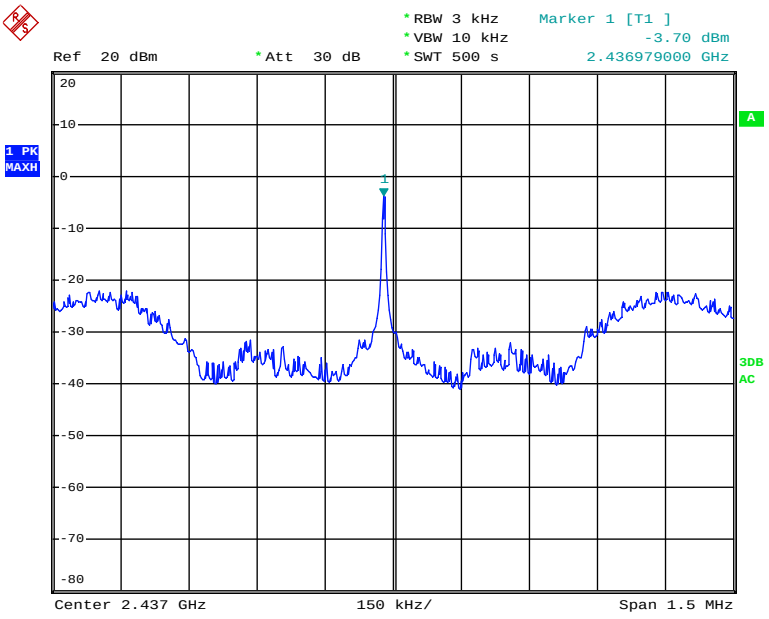
Date: 12.SEP.2011 10:12:12

Power Spectral Density, 802.11n40 Low Channel, TX0



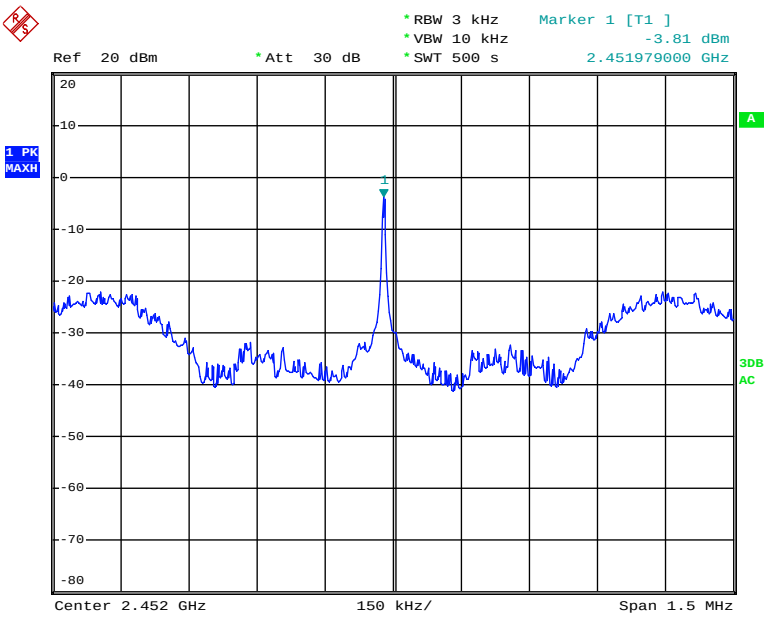
Date: 19.JUL.2011 11:40:46

Power Spectral Density, 802.11n40 Middle Channel, TX0



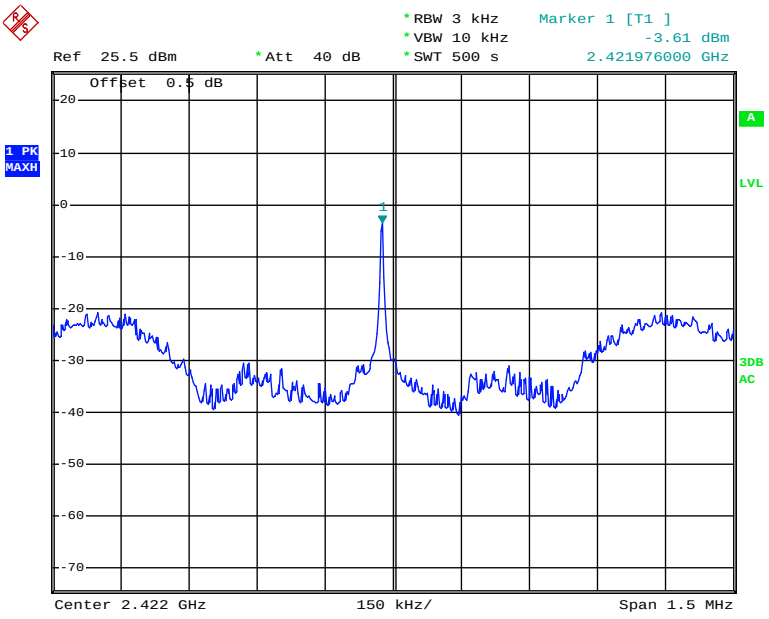
Date: 19.JUL.2011 11:30:11

Power Spectral Density, 802.11n40 High Channel, TX0



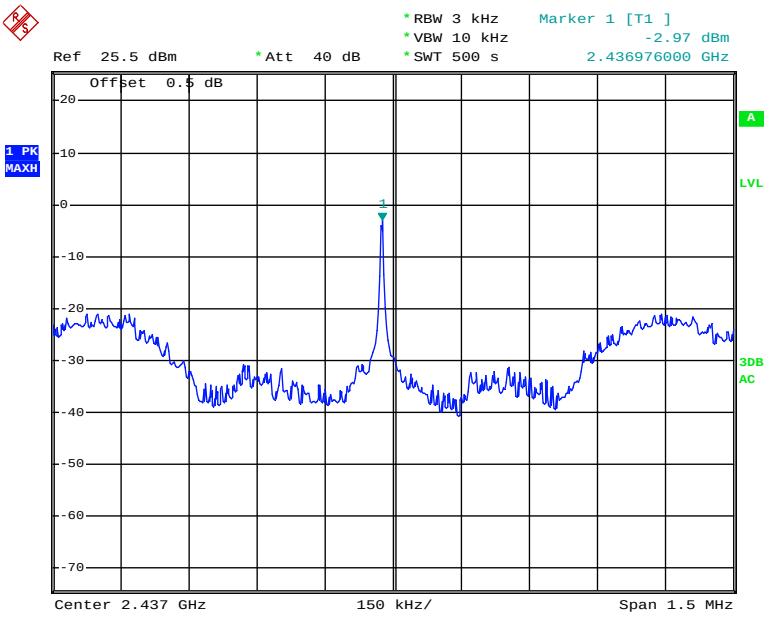
Date: 19.JUL.2011 11:19:36

Power Spectral Density, 802.11n40 Low Channel, TX1



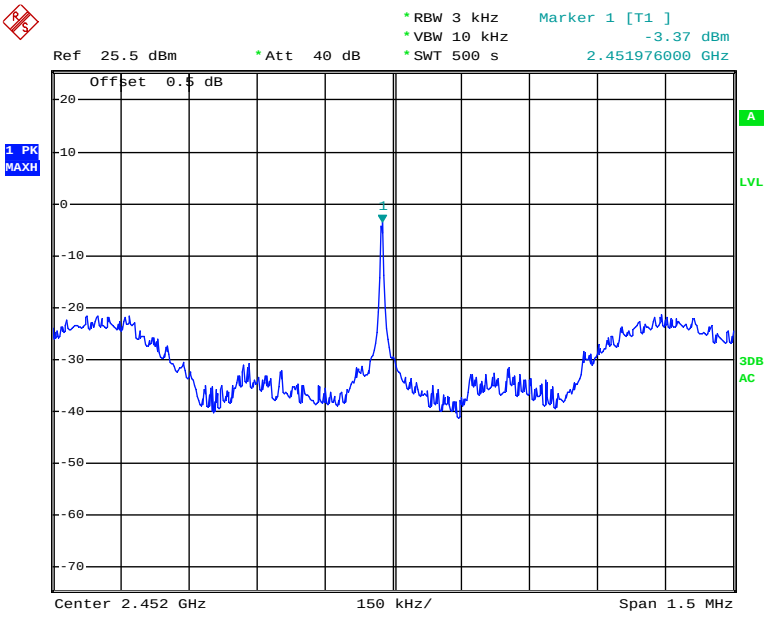
Date: 12.SEP.2011 10:47:50

Power Spectral Density, 802.11n40 Middle Channel, TX1



Date: 12.SEP.2011 10:57:20

Power Spectral Density, 802.11n40 High Channel, TX1



Date: 12.SEP.2011 11:07:35

******* END OF REPORT *******