

FCC PART 15.247
MEASUREMENT AND TEST REPORT

For

Shenzhen YIDONG Technology Co., Ltd.

Floor 1-5, Building B, Area B, Yuanfen Industrial Zone,
Dalang, Bao'an District, Shenzhen, China

FCC ID: LU7-RCT6691W3

Report Type: Original Report	Product Type: Tablet PC
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Report Number: RSZ130816001-00B	
Report Date: 2013-09-10	
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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	4
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
EQUIPMENT MODIFICATIONS	6
EXTERNAL I/O CABLING LIST AND DETAILS.....	6
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS	8
FCC §15.247 (i) & §2.1093 – RF EXPOSURE	9
APPLICABLE STANDARD	9
RESULT	9
FCC §15.203 - ANTENNA REQUIREMENT.....	10
APPLICABLE STANDARD	10
ANTENNA CONNECTOR CONSTRUCTION	10
FCC §15.207 (a) - CONDUCTED EMISSIONS	11
APPLICABLE STANDARD	11
MEASUREMENT UNCERTAINTY.....	11
EUT SETUP.....	11
EMI TEST RECEIVER SETUP.....	12
TEST EQUIPMENT LIST AND DETAILS.....	12
TEST PROCEDURE	12
CORRECTED FACTOR & MARGIN CALCULATION	12
TEST RESULTS SUMMARY	13
TEST DATA	13
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	16
APPLICABLE STANDARD	16
MEASUREMENT UNCERTAINTY.....	16
EUT SETUP.....	16
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	17
TEST PROCEDURE	17
CORRECTED AMPLITUDE & MARGIN CALCULATION	17
TEST EQUIPMENT LIST AND DETAILS.....	17
TEST RESULTS SUMMARY	18
TEST DATA	18
FCC §15.247(a) (2) – 6 dB EMISSIONS BANDWIDTH	30
APPLICABLE STANDARD	30
TEST PROCEDURE	30
TEST EQUIPMENT LIST AND DETAILS.....	30
TEST DATA	30

FCC §15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER	36
APPLICABLE STANDARD	36
TEST PROCEDURE	36
TEST EQUIPMENT LIST AND DETAILS.....	36
TEST DATA	36
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE.....	47
APPLICABLE STANDARD	47
TEST PROCEDURE	47
TEST EQUIPMENT LIST AND DETAILS.....	47
TEST DATA	48
FCC §15.247(e) - POWER SPECTRAL DENSITY	52
APPLICABLE STANDARD	52
TEST PROCEDURE	52
TEST EQUIPMENT LIST AND DETAILS.....	52
TEST DATA	52
PRODUCT SIMILARITY DECLARATION LETTER.....	58

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Shenzhen YIDONG Technology Co., Ltd.*'s product, model number: *RCT6691W3* (FCC ID: *LU7-RCT6691W3*) or the "EUT" as referred to in this report was a *Tablet PC*, which was measured approximately: 24.0 cm (L) x 14.8 cm (W) x 1.2 cm (H), rated input voltage: DC 3.7V rechargeable Li-ion battery and DC 5V charging from adapter.

Adapter information: Switching power adapter
Model: WRP2U-050200C
Input: 100-240Vac~50/60Hz 0.4A max
Output: DC 5V, 2A

Note: The product Tablet PC, model RCT6691W3 and EMR3194, they are electrically identical and the difference between them are only the model number and printing & shell color. Model RCT6691W3 was selected for fully testing, which was explained in the attached product similarity declaration letter.

** All measurement and test data in this report was gathered from production sample serial number: 1308065 (Assigned by the BACL, Shenzhen). The EUT supplied by the applicant was received on 2013-08-16.*

Objective

This report is prepared on behalf of *Shenzhen YIDONG Technology Co., Ltd.* 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, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID: LU7-RCT6691W3.

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

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in 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.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g and 802.11n-HT20 mode, 11 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 was tested with Channel 1, 6 and 11.

EUT Exercise Software

Wifi test with adb command

The test was performed under:

802.11b: Data rate: 1 Mbps. Power level: 44

802.11g: Data rate: 6 Mbps. Power level: 44

802.11n-HT20: Data rate: MCS0. Power level: 44

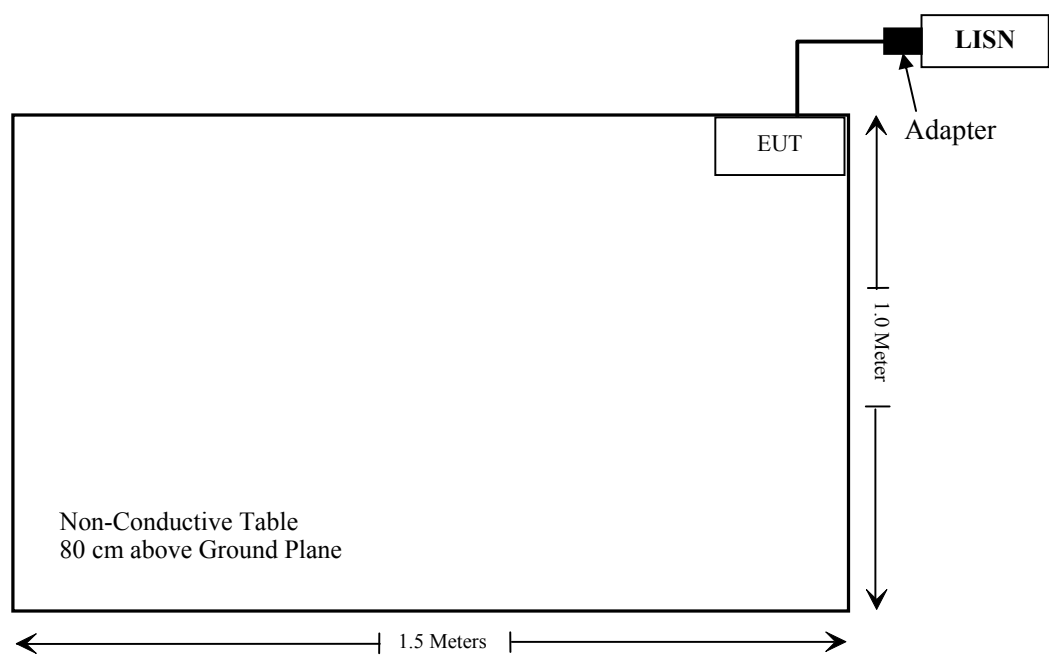
Equipment Modifications

No modification was made to the EUT tested.

External I/O Cabling List and Details

Cable Description	Length (m)	From Port	To
Unshielded Undetachable Adapter Cable	1.0	EUT	Adapter

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	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 Bandwidth	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

FCC §15.247 (i) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance v05

Result

According to FCC KDB 447498 D01 General RF Exposure Guidance v05 generic portable criteria

The Maximum average output power: 9.67 dBm (9.27 mW)

According to KDB 447498, the exclusion thresholds for 2450 MHz is 10 mW

Conclusion:

The test time-averaged output power is 9.27 mW < the exclusion thresholds 10 mW, so stand-alone SAR evaluation is not required.

Result: Compliance

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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.

Antenna Connector Construction

The EUT has a FPC antenna arrangement for WiFi, which was permanently attached and the gain was 2.0 dBi, fulfill the requirement of this section. Please refer to the internal photos.

Result: Compliance.

FCC §15.207 (a) - CONDUCTED EMISSIONS

Applicable Standard

According to FCC§15.207

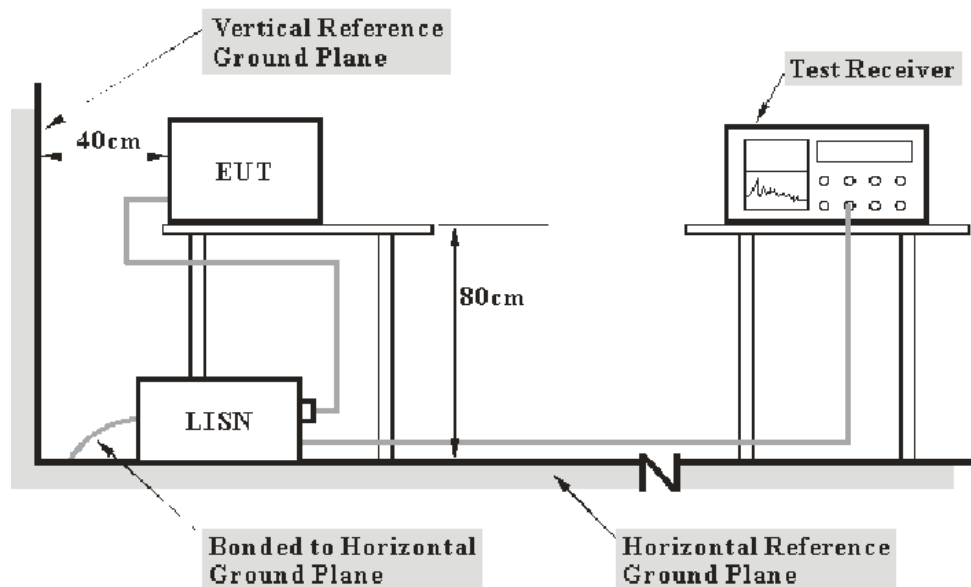
Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements may be receiver reading, attenuation of the connection between AMN/ISN and receiver, AMN/ISN voltage division factor, AMN/ISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report

Port	Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 dB (k=2, 95% level of confidence)

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 ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The adapter was connected to a 120 V_{AC}/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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2013-06-17	2014-06-17
Rohde & Schwarz	LISN	ESH2-Z5	892107/021	2013-08-22	2014-08-22
Rohde & Schwarz	Transient limiter	ESH3Z2	DE25985	2013-08-09	2014-08-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Pulse Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Pulse Limiter Attenuation}$$

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

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, with the worst margin reading of:

8.7 dB at 0.182000 MHz in the **Line** conducted mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

in our lab., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

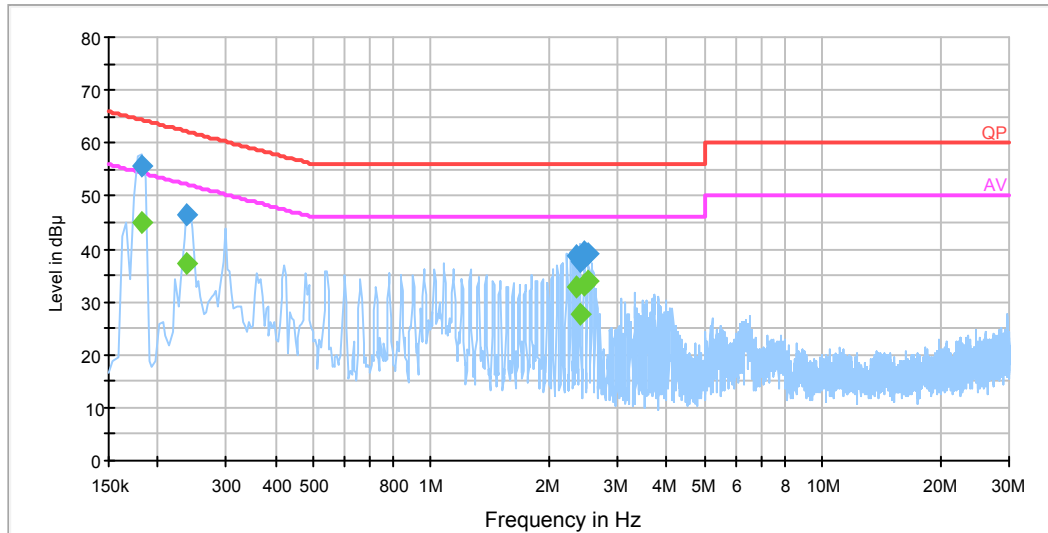
Temperature:	25 ° C
Relative Humidity:	55 %
ATM Pressure:	100.1 kPa

The testing was performed by Gardon Zhang on 2013-08-29.

EUT operation mode: Charging & transmitting

AC 120V / 60Hz – Line

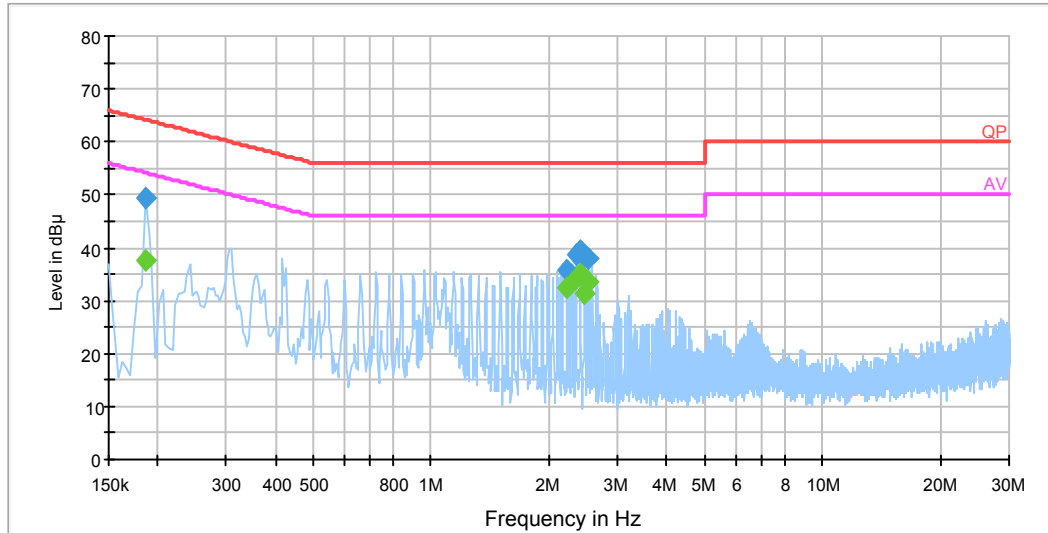
EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dBμV)	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK /QP/Ave.)
0.182000	55.7	19.5	64.4	8.7	QP
0.182000	45.2	19.5	54.4	9.2	Ave.
0.238000	46.4	19.5	62.2	15.8	QP
0.238000	37.3	19.5	52.2	14.9	Ave.
2.346000	38.8	19.5	56.0	17.2	QP
2.346000	33.0	19.5	46.0	13.0	Ave.
2.410000	37.6	19.5	56.0	18.4	QP
2.410000	27.7	19.5	46.0	18.3	Ave.
2.466000	39.4	19.5	56.0	16.6	QP
2.466000	33.3	19.5	46.0	12.7	Ave.
2.522000	39.0	19.5	56.0	17.0	QP
2.522000	33.8	19.5	46.0	12.2	Ave.

AC 120V / 60Hz – Neutral:

EMI Auto Test N



Frequency (MHz)	Corrected Amplitude (dBμV)	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK /QP/Ave.)
0.186000	49.4	19.5	64.2	14.8	QP
0.186000	37.6	19.5	54.2	16.6	Ave.
2.222000	35.9	19.6	56.0	20.1	QP
2.222000	32.6	19.6	46.0	13.4	Ave.
2.346000	38.7	19.6	56.0	17.3	QP
2.346000	34.3	19.6	46.0	11.7	Ave.
2.406000	39.5	19.6	56.0	16.5	QP
2.406000	34.9	19.6	46.0	11.1	Ave.
2.470000	38.4	19.6	56.0	17.6	QP
2.470000	31.4	19.6	46.0	14.6	Ave.
2.522000	37.8	19.6	56.0	18.2	QP
2.522000	33.4	19.6	46.0	12.6	Ave.

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

Applicable Standard

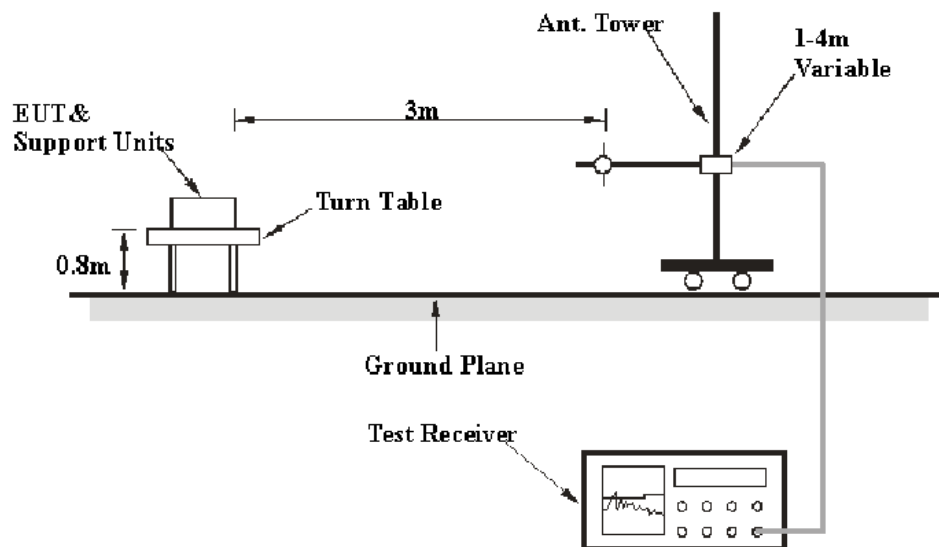
FCC §15.247 (d); §15.209; §15.205;

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 CISPR 16-4-2:2011, the expanded combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) will not be taken into consideration for the test data recorded in the report

EUT Setup



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4-2009. 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 an AC 120V/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	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

For the radiated emissions test, the adapter was connected to the AC floor outlet.

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 and 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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2013-08-09	2014-08-09
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2013-05-09	2014-05-09
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
SUPER ULTRA	Amplifier	ZVA-213+	N/A	2012-11-24	2013-11-23
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2014-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2012-11-24	2013-11-23
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2010-10-14	2013-10-13

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the data in the following table, with the worst margin reading of:

10.04 dB at 9848.0 MHz in the **Vertical** polarization for 802.11b mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(L_m)} \leq L_{\text{lim}} + U_{\text{cispr}}$$

in our lab., $U_{(L_m)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	55 %
ATM Pressure:	100.1 kPa

The testing was performed by Gardon Zhang on 2013-08-29.

EUT operation mode: Transmitting

30 MHz-25 GHz**802.11b mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.0	100.96	PK	210	1.6	H	6.13	107.09	/	/
2412.0	84.69	Ave.	210	1.6	H	6.13	90.82	/	/
2412.0	98.92	PK	320	1.4	V	6.13	105.05	/	/
2412.0	83.48	Ave.	320	1.4	V	6.13	89.61	/	/
355.2	45.65	QP	172	1.20	H	-13.50	32.11	46.00	13.89
2352.4	40.21	PK	340	1.30	V	5.48	45.69	74.00	28.31
2352.4	23.57	Ave.	340	1.30	V	5.48	29.05	54.00	24.95
2389.2	43.35	PK	194	1.40	V	6.13	49.48	74.00	24.52
2389.2	25.16	Ave.	194	1.40	V	6.13	31.29	54.00	22.71
2490.7	39.62	PK	149	1.20	H	7.21	46.83	74.00	27.17
2490.7	24.11	Ave.	149	1.20	H	7.21	31.32	54.00	22.68
4824.0	39.54	PK	229	1.20	H	12.40	51.94	74.00	22.06
4824.0	26.50	Ave.	229	1.20	H	12.40	38.90	54.00	15.10
7236.0	37.42	PK	193	1.40	V	16.62	54.04	74.00	19.96
7236.0	24.16	Ave.	193	1.40	V	16.62	40.78	54.00	13.22
9648.0	25.34	PK	284	1.40	V	19.29	44.63	74.00	29.37
9648.0	22.40	Ave.	284	1.40	V	19.29	41.69	54.00	12.31
Middle Channel (2437 MHz)									
2437.0	101.21	PK	310	1.5	H	7.21	108.42	/	/
2437.0	85.34	Ave.	310	1.5	H	7.21	92.55	/	/
2437.0	98.87	PK	340	1.2	V	7.21	106.08	/	/
2437.0	84.71	Ave.	340	1.2	V	7.21	91.92	/	/
355.2	43.74	QP	92	1.30	H	-13.50	30.24	46.00	15.76
2378.5	39.54	PK	6	1.30	V	6.13	45.67	74.00	28.33
2378.5	24.01	Ave.	6	1.30	V	6.13	30.14	54.00	23.86
2486.0	40.31	PK	235	1.20	H	7.21	47.52	74.00	26.48
2486.0	25.28	Ave.	235	1.20	H	7.21	32.49	54.00	21.51
2493.2	38.16	PK	69	1.40	H	7.21	45.37	74.00	28.63
2493.2	23.26	Ave.	69	1.40	H	7.21	30.47	54.00	23.53
4874.0	39.86	PK	2	1.40	V	12.46	52.32	74.00	21.68
4874.0	25.47	Ave.	2	1.40	V	12.46	37.93	54.00	16.07
7311.0	38.91	PK	346	1.30	V	16.49	55.40	74.00	18.60
7311.0	25.14	Ave.	346	1.30	V	16.49	41.63	54.00	12.37
9748.0	27.20	PK	352	1.30	H	19.40	46.60	74.00	27.40
9748.0	22.23	Ave.	352	1.30	H	19.40	41.63	54.00	12.37

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel(2462 MHz)									
2462.0	101.74	PK	181	1.5	H	7.21	108.95	/	/
2462.0	87.89	Ave.	181	1.5	H	7.21	95.10	/	/
2462.0	99.75	PK	50	1.6	V	7.21	106.96	/	/
2462.0	86.31	Ave.	50	1.6	V	7.21	93.52	/	/
355.2	45.70	QP	123	1.30	H	-13.5	32.20	46.00	13.80
2374.8	41.27	PK	199	1.50	H	6.13	47.40	74.00	26.60
2374.8	26.49	Ave.	199	1.50	H	6.13	32.62	54.00	21.38
2484.2	37.59	PK	154	1.20	V	7.21	44.80	74.00	29.20
2484.2	24.61	Ave.	154	1.20	V	7.21	31.82	54.00	22.18
2492.7	39.18	PK	140	1.40	V	7.21	46.39	74.00	27.61
2492.7	24.82	Ave.	140	1.40	V	7.21	32.03	54.00	21.97
4912.0	40.32	PK	304	1.30	V	12.46	52.78	74.00	21.22
4912.0	27.16	Ave.	304	1.30	V	12.46	39.62	54.00	14.38
7386.0	38.46	PK	355	1.30	H	15.91	54.37	74.00	19.63
7386.0	25.33	Ave.	355	1.30	H	15.91	41.24	54.00	12.76
9848.0	36.42	PK	31	1.50	V	19.39	55.81	74.00	18.19
9848.0	24.57	Ave.	31	1.50	V	19.39	43.96	54.00	10.04

802.11g mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel(2412 MHz)									
2412.0	98.28	PK	149	1.4	H	6.13	104.41	/	/
2412.0	80.83	Ave.	149	1.4	H	6.13	86.96	/	/
2412.0	96.81	PK	296	1.3	V	6.13	102.94	/	/
2412.0	79.55	Ave.	296	1.3	V	6.13	85.68	/	/
355.2	45.16	QP	183	1.20	H	-13.50	31.66	46.00	14.34
2372.1	38.62	PK	74	1.30	H	6.13	44.75	74.00	29.25
2372.1	24.12	Ave.	74	1.30	H	6.13	30.25	54.00	23.75
2385.2	40.20	PK	313	1.40	V	6.13	46.33	74.00	27.67
2385.2	25.39	Ave.	313	1.40	V	6.13	31.52	54.00	22.48
2493.7	39.26	PK	26	1.20	V	7.21	46.47	74.00	27.53
2493.7	26.11	Ave.	26	1.20	V	7.21	33.32	54.00	20.68
4824.0	42.64	PK	54	1.30	H	12.40	55.04	74.00	18.96
4824.0	27.27	Ave.	54	1.30	H	12.40	39.67	54.00	14.33
7236.0	37.64	PK	241	1.20	V	16.62	54.26	74.00	19.74
7236.0	25.16	Ave.	241	1.20	V	16.62	41.78	54.00	12.22
9648.0	37.64	PK	74	1.40	V	19.29	56.93	74.00	17.07
9648.0	23.58	Ave.	74	1.40	V	19.29	42.87	54.00	11.13
Middle Channel(2437 MHz)									
2437.0	99.34	PK	297	1.3	H	7.21	106.55	/	/
2437.0	82.43	Ave.	297	1.3	H	7.21	79.64	/	/
2437.0	94.56	PK	131	1.5	V	7.21	101.77	/	/
2437.0	80.02	Ave.	131	1.5	V	7.21	87.23	/	/
355.2	45.28	QP	26	1.30	H	-13.50	31.78	46.00	14.22
2366.5	39.65	PK	104	1.30	V	5.48	45.13	74.00	28.87
2366.5	24.60	Ave.	104	1.30	V	5.48	30.08	54.00	23.92
2484.7	42.15	PK	139	1.20	H	7.21	49.36	74.00	24.64
2484.7	24.57	Ave.	139	1.20	H	7.21	31.78	54.00	22.22
2495.2	39.65	PK	269	1.30	H	7.21	46.86	74.00	27.14
2495.2	23.54	Ave.	269	1.30	H	7.21	30.75	54.00	23.25
4874.0	40.18	PK	216	1.20	V	12.46	52.64	74.00	21.36
4874.0	26.54	Ave.	216	1.20	V	12.46	39.00	54.00	15.00
7311.0	36.54	PK	55	1.50	V	16.49	53.03	74.00	20.97
7311.0	22.35	Ave.	55	1.50	V	16.49	38.84	54.00	15.16
9748.0	38.42	PK	210	1.20	H	19.40	57.82	74.00	16.18
9748.0	23.57	Ave.	210	1.20	H	19.40	42.97	54.00	11.03

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel(2462 MHz)									
2462.0	97.23	PK	169	1.3	H	7.21	104.44	/	/
2462.0	81.12	Ave.	169	1.3	H	7.21	88.33	/	/
2462.0	98.32	PK	350	1.3	V	7.21	105.53	/	/
2462.0	83.35	Ave.	350	1.3	V	7.21	90.56	/	/
355.2	46.84	QP	320	1.00	H	-13.50	33.34	46.00	12.66
2373.5	38.26	PK	218	1.20	H	6.13	44.39	74.00	29.61
2373.5	24.30	Ave.	218	1.20	H	6.13	30.43	54.00	23.57
2485.6	42.31	PK	286	1.30	V	7.21	49.52	74.00	24.48
2485.6	26.18	Ave.	286	1.30	V	7.21	33.39	54.00	20.61
2492.2	40.30	PK	90	1.40	V	7.21	47.51	74.00	26.49
2492.2	25.87	Ave.	90	1.40	V	7.21	33.08	54.00	20.92
4912.0	41.30	PK	78	1.50	V	12.46	53.76	74.00	20.24
4912.0	25.66	Ave.	78	1.50	V	12.46	38.12	54.00	15.88
7386.0	38.12	PK	2	1.30	H	15.91	54.03	74.00	19.97
7386.0	23.42	Ave.	2	1.30	H	15.91	39.33	54.00	14.67
9848.0	37.14	PK	150	1.20	V	19.39	56.53	74.00	17.47
9848.0	23.01	Ave.	150	1.20	V	19.39	42.40	54.00	11.60

802.11n-HT20 mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel(2412 MHz)									
2412.0	98.23	PK	115	1.2	H	6.13	104.36	/	/
2412.0	83.88	Ave.	115	1.2	H	6.13	90.01	/	/
2412.0	99.45	PK	33	1.5	V	6.13	105.58	/	/
2412.0	82.32	Ave.	33	1.5	V	6.13	88.45	/	/
355.2	43.75	QP	230	1.20	H	-13.50	30.25	46.00	15.75
2370.2	42.30	PK	176	1.40	H	6.13	48.43	74.00	25.57
2370.2	26.21	Ave.	176	1.40	H	6.13	32.34	54.00	21.66
2386.6	39.62	PK	130	1.30	V	6.13	45.75	74.00	28.25
2386.6	24.03	Ave.	130	1.30	V	6.13	30.16	54.00	23.84
2493.5	38.85	PK	165	1.40	H	7.21	46.06	74.00	27.94
2493.5	23.54	Ave.	165	1.40	H	7.21	30.75	54.00	23.25
4824.0	39.65	PK	293	1.40	V	12.40	52.05	74.00	21.95
4824.0	26.51	Ave.	293	1.40	V	12.40	38.91	54.00	15.09
7236.0	39.21	PK	173	1.30	V	16.62	55.83	74.00	18.17
7236.0	25.47	Ave.	173	1.30	V	16.62	42.09	54.00	11.91
9648.0	38.12	PK	165	1.20	H	19.29	57.41	74.00	16.59
9648.0	23.43	Ave.	165	1.20	H	19.29	42.72	54.00	11.28
Middle Channel(2437 MHz)									
2437.0	97.35	PK	54	1.3	H	7.21	104.56	/	/
2437.0	83.25	Ave.	54	1.3	H	7.21	90.46	/	/
2437.0	98.34	PK	185	1.3	V	7.21	105.55	/	/
2437.0	81.17	Ave.	185	1.3	V	7.21	88.38	/	/
355.2	45.02	QP	154	1.00	H	-13.50	31.52	46.00	14.48
2365.6	36.57	PK	319	1.40	V	5.48	42.05	74.00	31.95
2365.6	24.34	Ave.	319	1.40	V	5.48	29.82	54.00	24.18
2485.7	39.17	PK	315	1.50	H	7.21	46.38	74.00	27.62
2485.7	25.22	Ave.	315	1.50	H	7.21	32.43	54.00	21.57
2493.1	38.86	PK	12	1.30	H	7.21	46.07	74.00	27.93
2493.1	25.11	Ave.	12	1.30	H	7.21	32.32	54.00	21.68
4874.0	40.32	PK	192	1.30	V	12.46	52.78	74.00	21.22
4874.0	26.93	Ave.	192	1.30	V	12.46	39.39	54.00	14.61
7311.0	39.12	PK	260	1.40	V	16.49	55.61	74.00	18.39
7311.0	24.38	Ave.	260	1.40	V	16.49	40.87	54.00	13.13
9748.0	37.46	PK	324	1.40	H	19.40	56.86	74.00	17.14
9748.0	24.05	Ave.	324	1.40	H	19.40	43.45	54.00	10.55

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel(2462 MHz)									
2462.0	99.25	PK	22	1.6	H	7.21	106.46	/	/
2462.0	84.59	Ave.	22	1.6	H	7.21	91.80	/	/
2462.0	99.03	PK	343	1.3	V	7.21	106.24	/	/
2462.0	82.68	Ave.	343	1.3	V	7.21	89.89	/	/
355.2	45.88	QP	192	1.20	H	-13.50	32.38	46.00	13.62
2372.4	39.54	PK	294	1.20	H	6.13	45.67	74.00	28.33
2372.4	25.17	Ave.	294	1.20	H	6.13	31.30	54.00	22.70
2485.7	38.46	PK	276	1.30	V	7.21	45.67	74.00	28.33
2485.7	25.00	Ave.	276	1.30	V	7.21	32.21	54.00	21.79
2490.2	42.30	PK	49	1.20	V	7.21	49.51	74.00	24.49
2490.2	26.75	Ave.	49	1.20	V	7.21	33.96	54.00	20.04
4912.0	40.30	PK	333	1.30	H	12.46	52.76	74.00	21.24
4912.0	26.57	Ave.	333	1.30	H	12.46	39.03	54.00	14.97
7386.0	36.34	PK	38	1.20	H	15.91	52.25	74.00	21.75
7386.0	24.30	Ave.	38	1.20	H	15.91	40.21	54.00	13.79
9848.0	36.88	PK	262	1.30	V	19.39	56.27	74.00	17.73
9848.0	23.35	Ave.	262	1.30	V	19.39	42.74	54.00	11.26

Note:

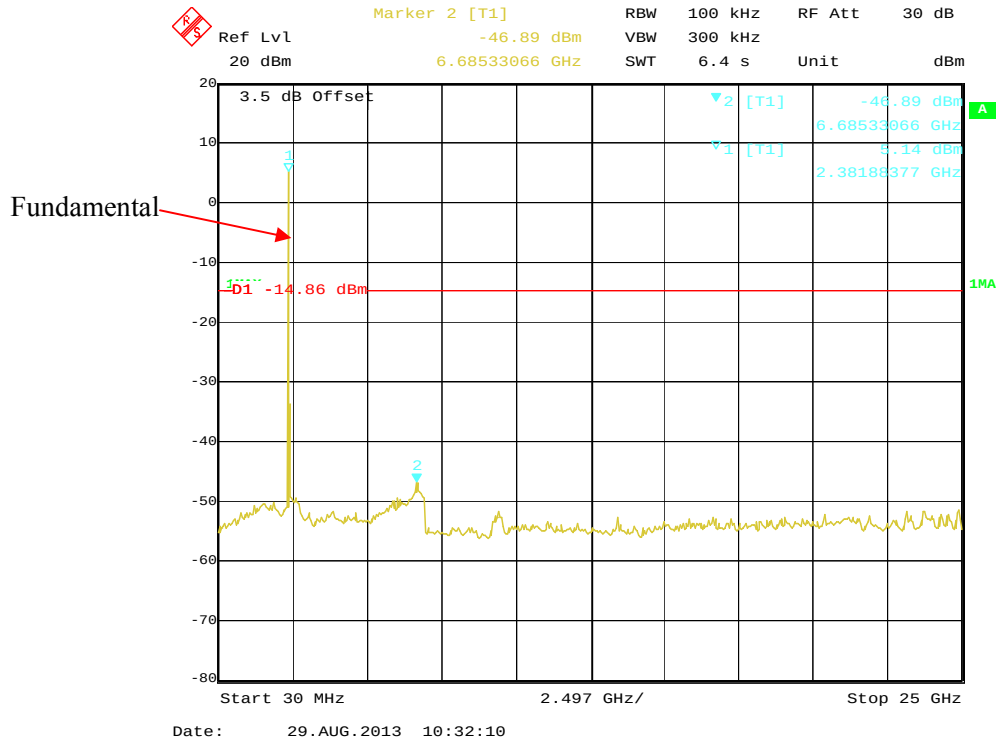
Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + cable loss – amplifier factor

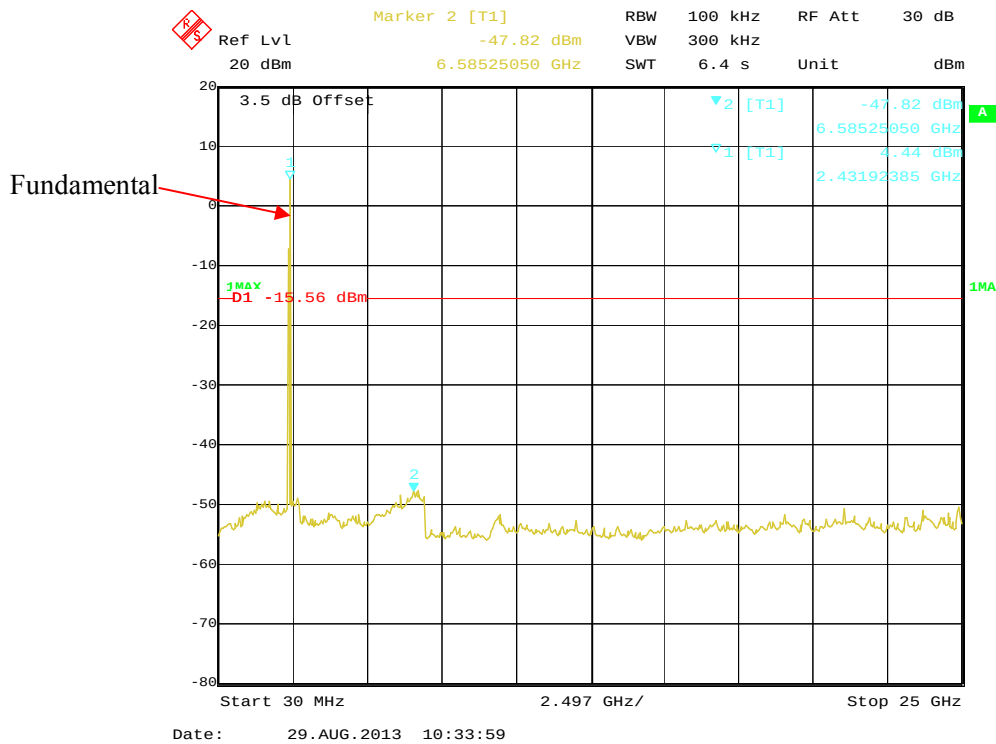
Margin = Limit- Corr. Amplitude

Conducted Spurious Emissions at Antenna Port:

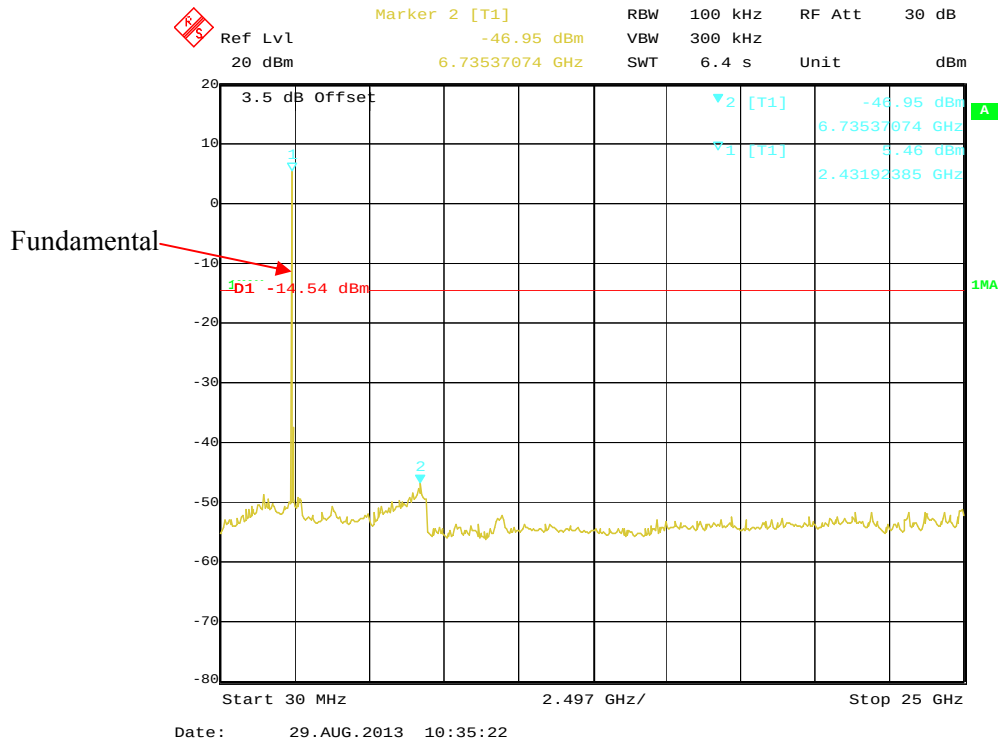
802.11b Low Channel



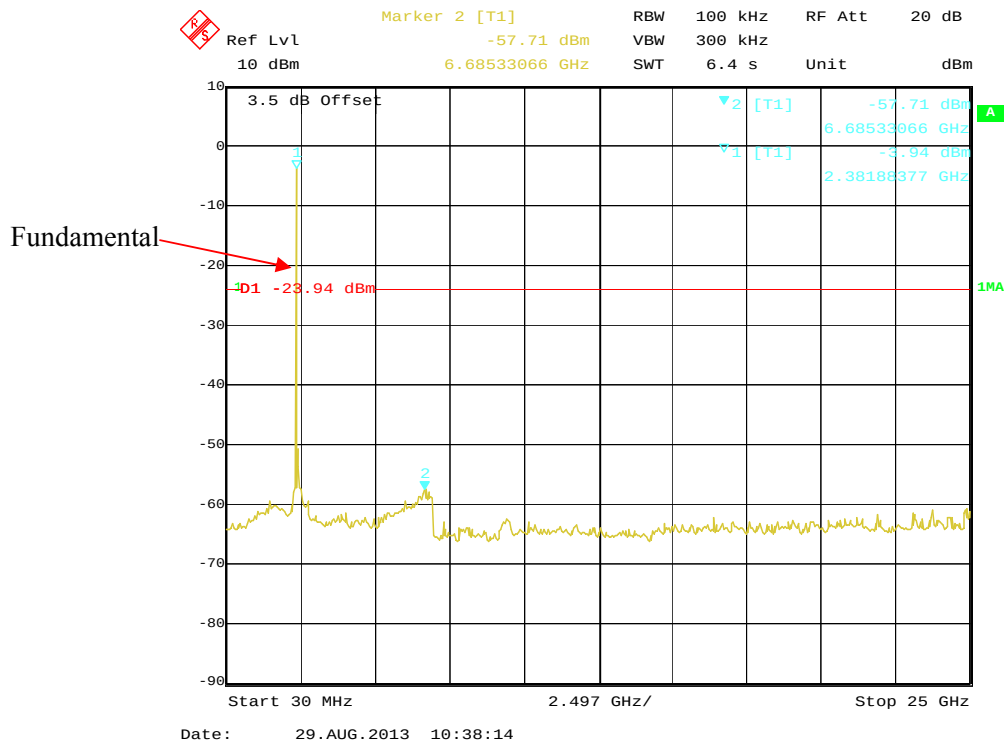
802.11b Middle Channel



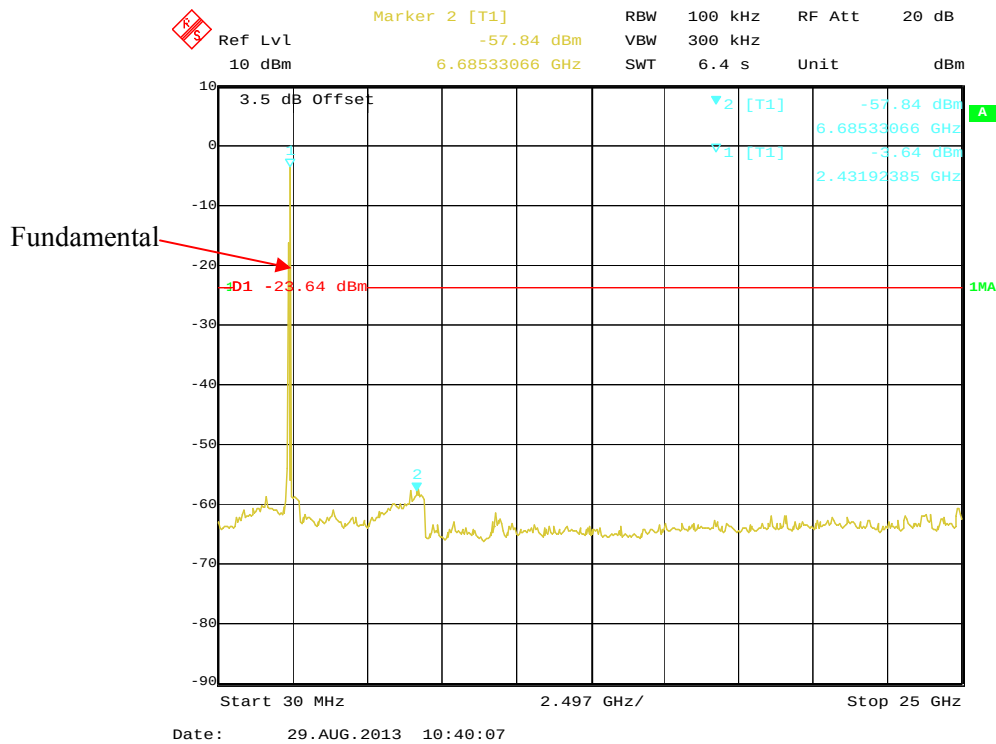
802.11b High Channel



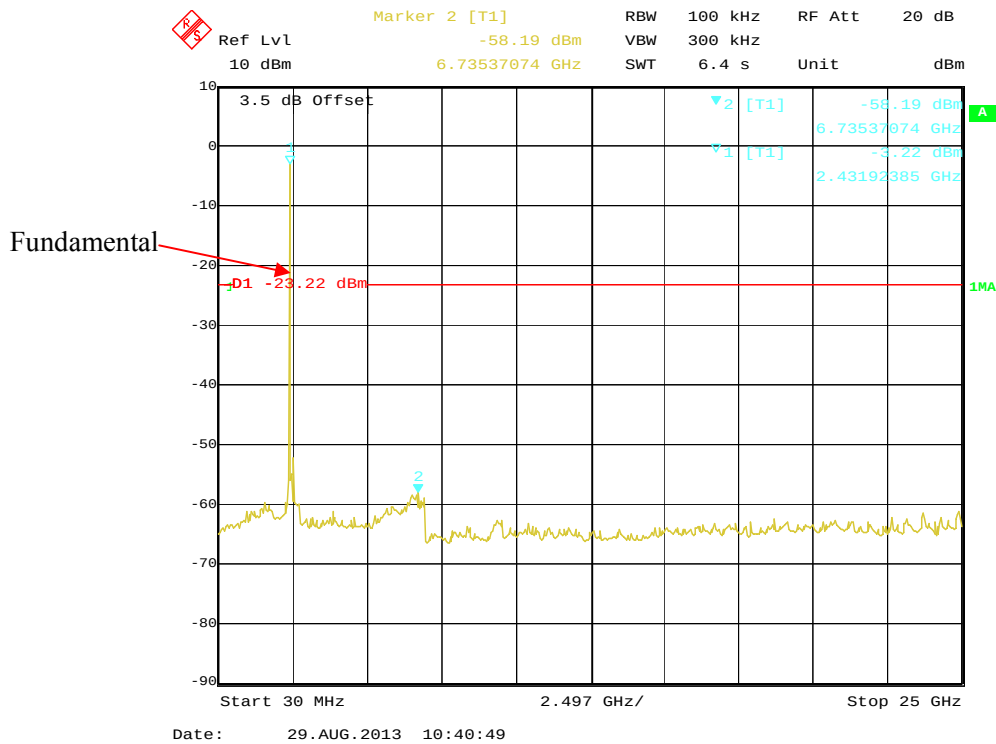
802.11g Low Channel



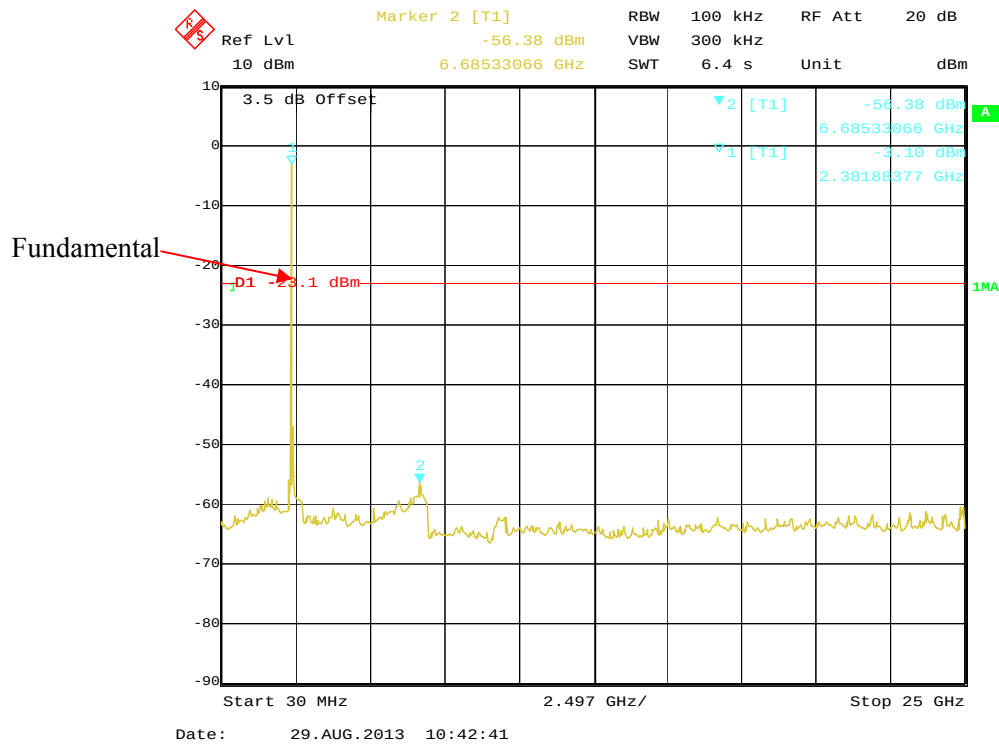
802.11g Middle Channel



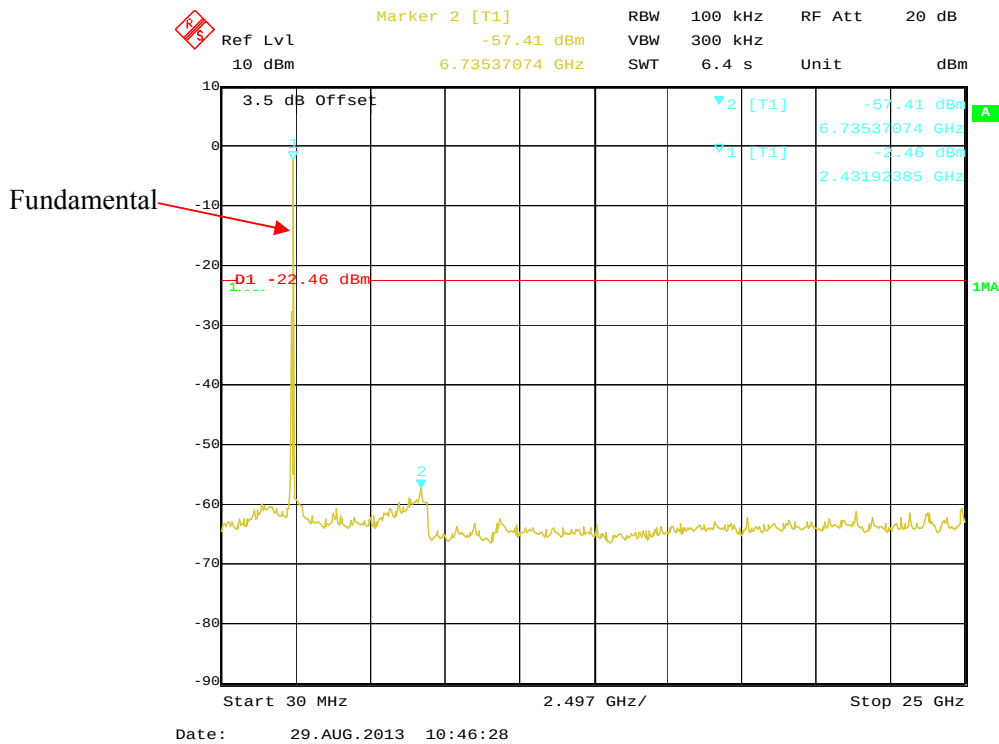
802.11g High Channel



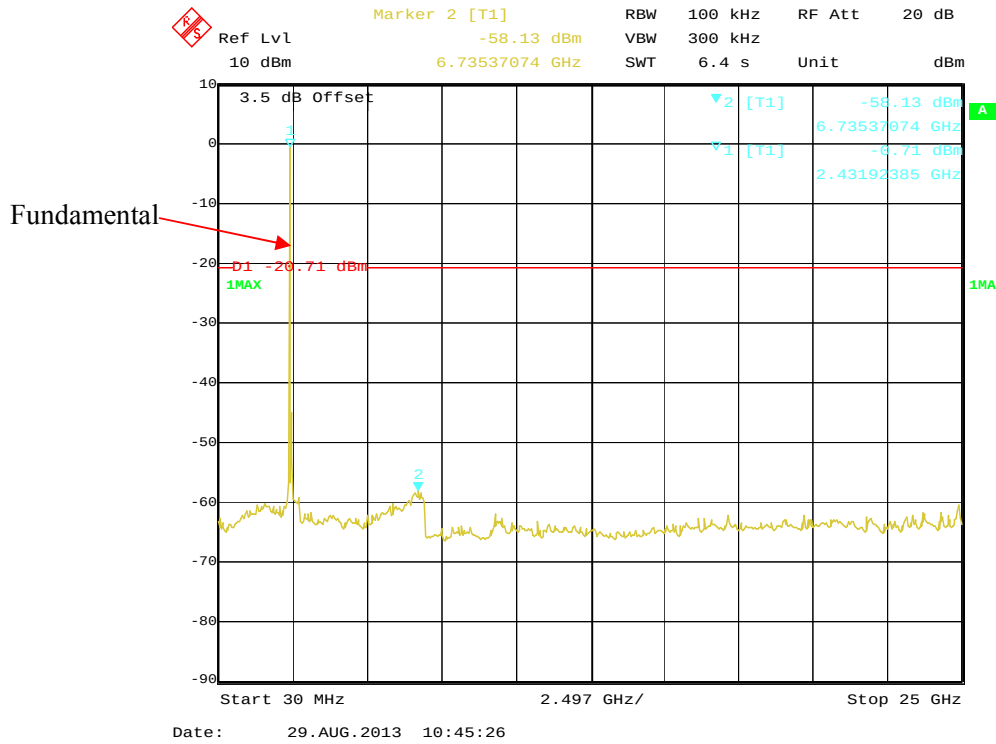
802.11n-HT20 Low Channel



802.11n-HT20 Middle Channel



802.11n-HT20 High Channel



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

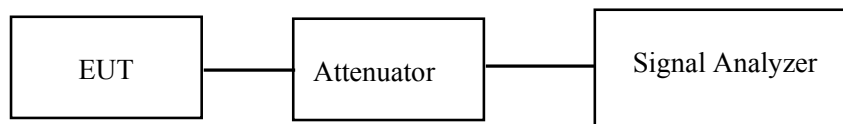
Applicable Standard

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

According to KDB 558074 D01 DTS Meas Guidance v03r01

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	Signal Analyzer	FSIQ26	8386001028	2012-11-24	2013-11-23

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

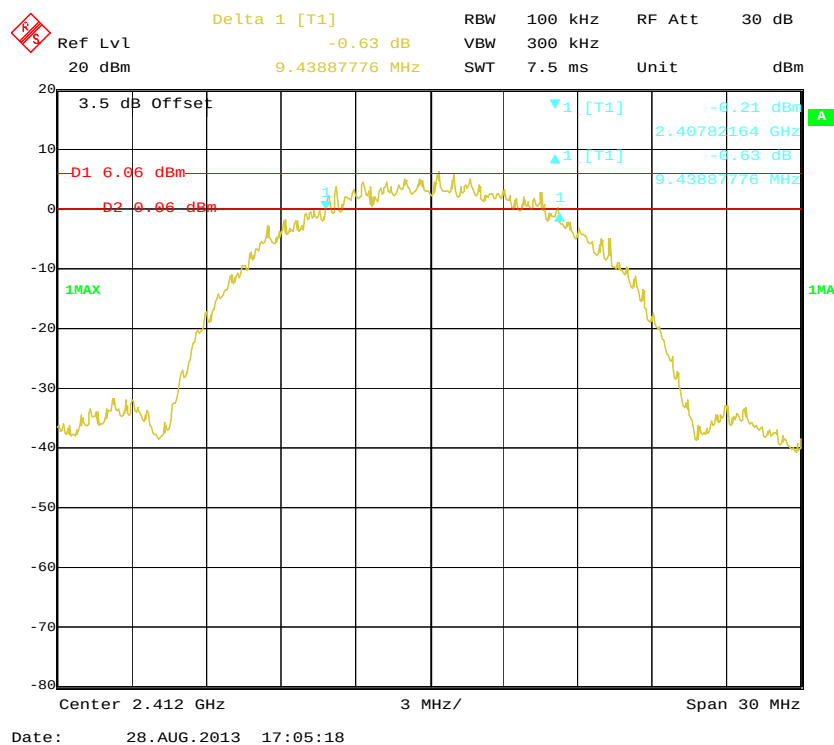
The testing was performed by Gardon Zhang on 2013-08-28.

EUT operation mode: Transmitting

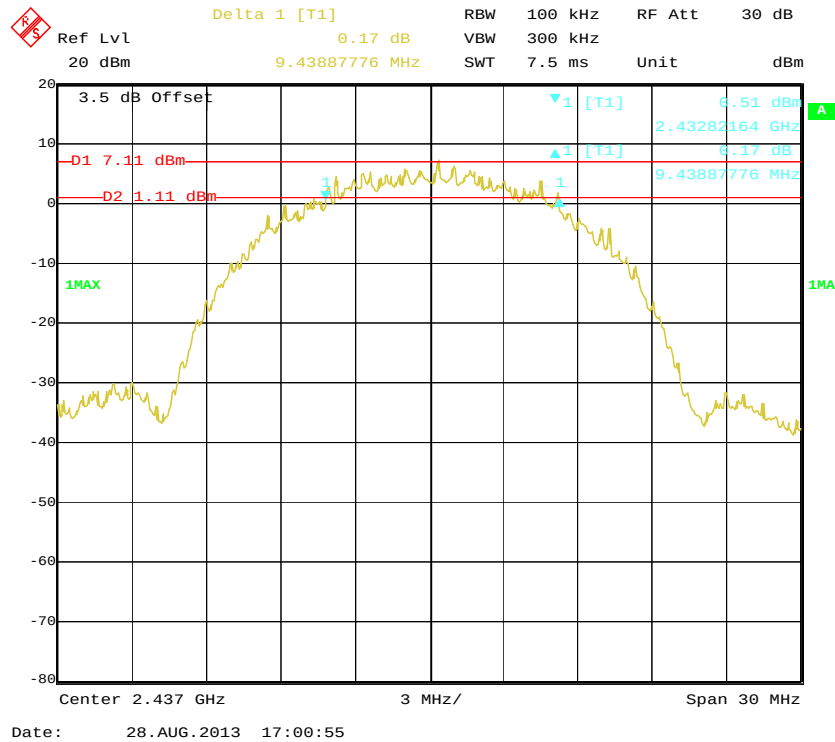
Test Result: Pass.

Please refer to the following tables and plots.

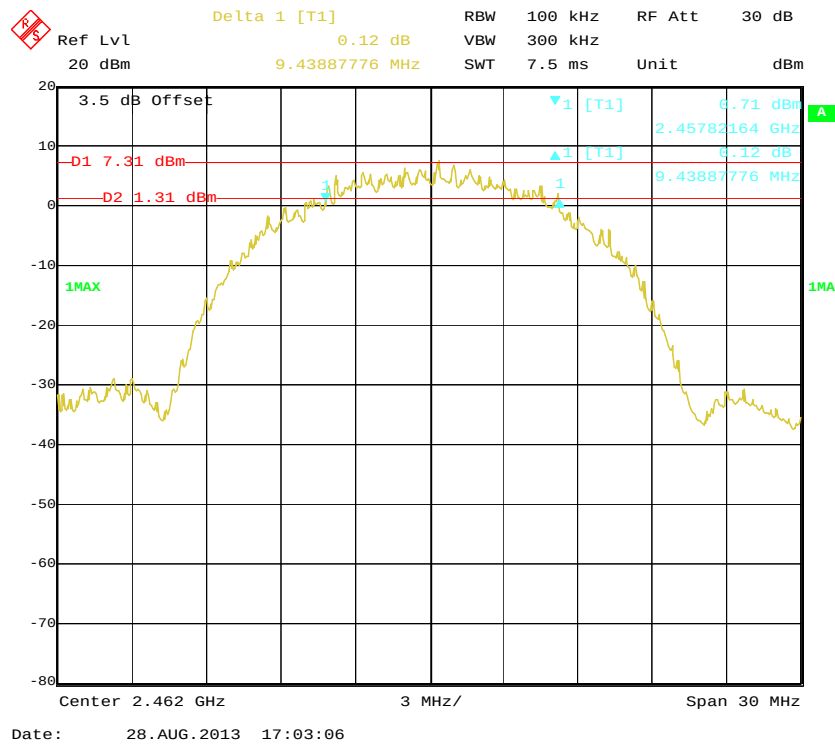
Channel	Frequency (MHz)	Data Rate (Mbps)	6dB Emissions Bandwidth (MHz)	Limit (kHz)	Result
802.11b mode					
Low	2412	1	9.44	≥ 500	Pass
Middle	2437	1	9.44	≥ 500	Pass
High	2462	1	9.44	≥ 500	Pass
802.11g mode					
Low	2412	6	16.59	≥ 500	Pass
Middle	2437	6	16.59	≥ 500	Pass
High	2462	6	16.59	≥ 500	Pass
802.11n-HT20 mode					
Low	2412	MCS0	17.80	≥ 500	Pass
Middle	2437	MCS0	17.80	≥ 500	Pass
High	2462	MCS0	17.80	≥ 500	Pass

802.11b Low Channel

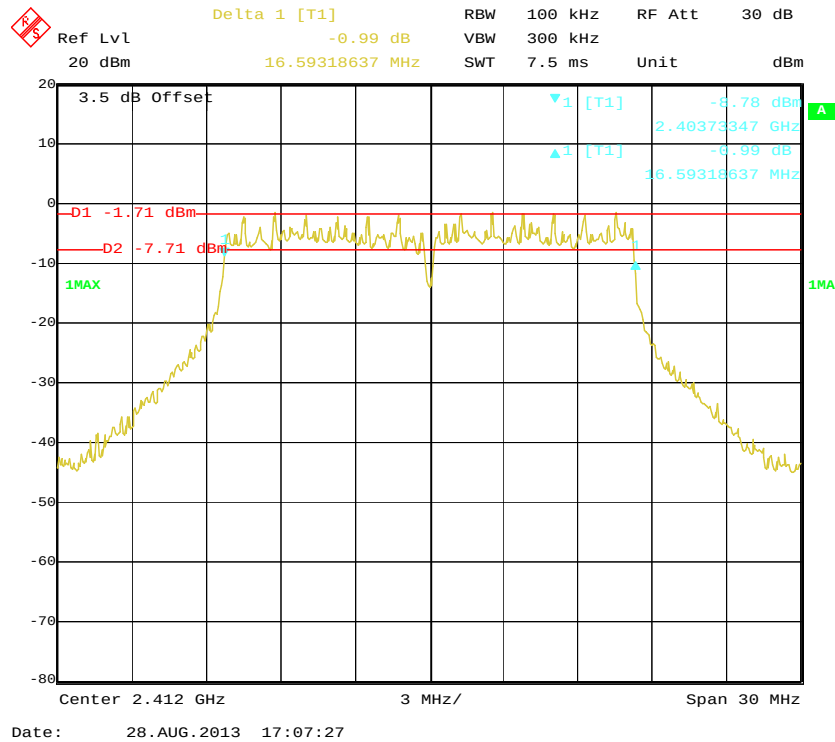
802.11b Middle Channel



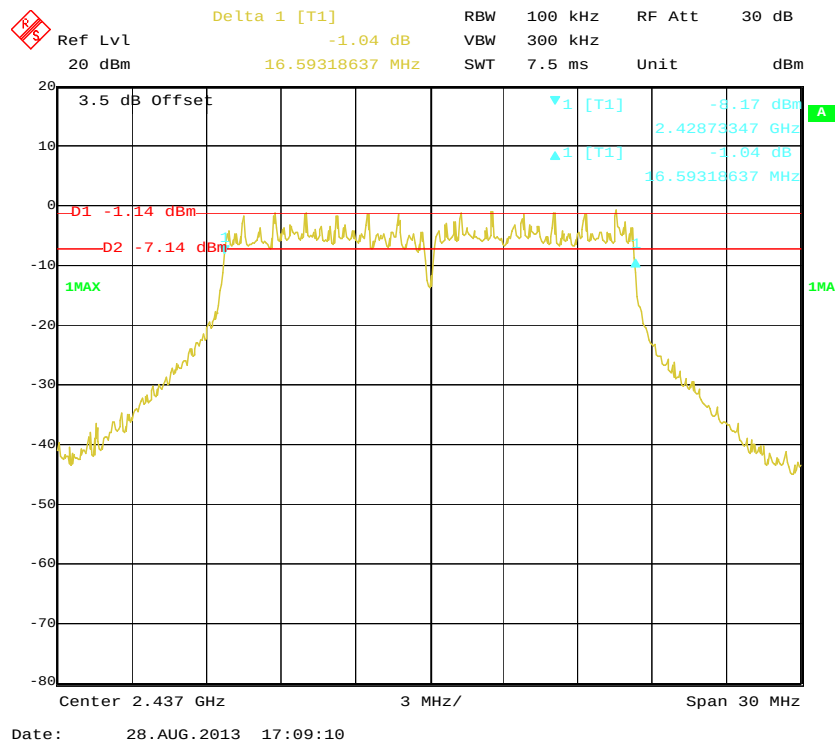
802.11b High Channel



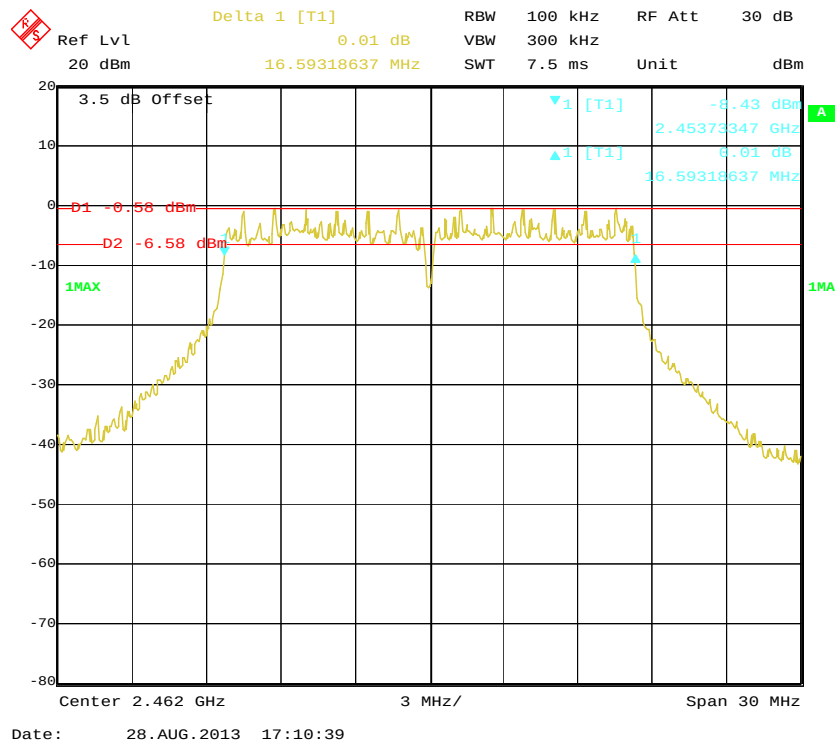
802.11g Low Channel



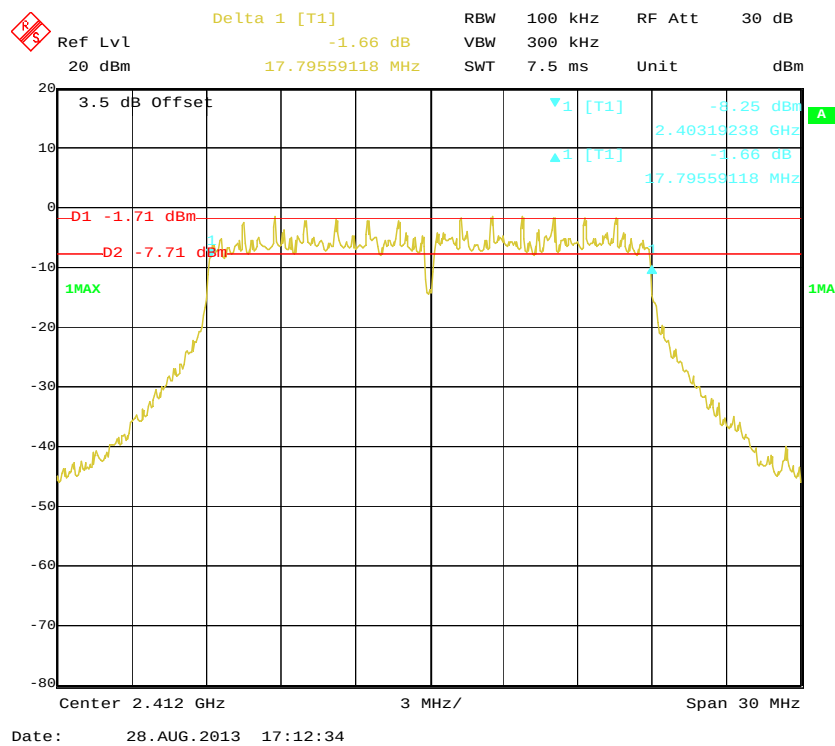
802.11g Middle Channel



802.11g High Channel



802.11n-HT20 Low Channel



[illegible]

Ref Lvl 20 dBm Delta 1 [T1] -2.00 dB RBW 100 kHz RF Att 30 dB

20 dBm 17.79559118 MHz SWT 7.5 ms Unit dBm

3.5 dB Offset

D1 -0.42 dBm D2 -6.42 dBm

1MAX

1 [T1] -6.91 dBm 2.45319238 GHz

1 [T1] -2.00 dBm 17.79559118 MHz

Center 2.462 GHz 3 MHz/ Span 30 MHz

Date: 28.AUG.2013 17:16:00

FCC §15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER

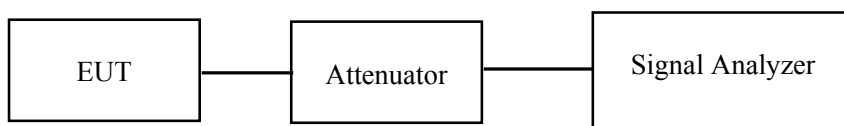
Applicable Standard

According to §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01

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	Signal Analyzer	FSIQ26	8386001028	2012-11-24	2013-11-23

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

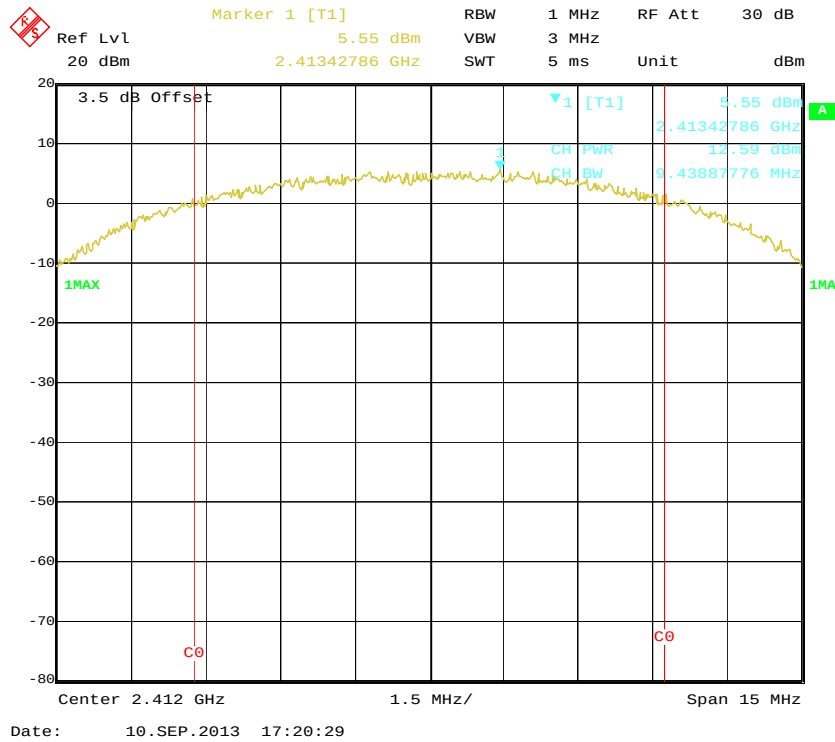
Temperature:	25~26 ° C
Relative Humidity:	52~56 %
ATM Pressure:	100.1~101.0 kPa

The testing was performed by Gardon Zhang on 2013-09-02 and 2013-09-10.

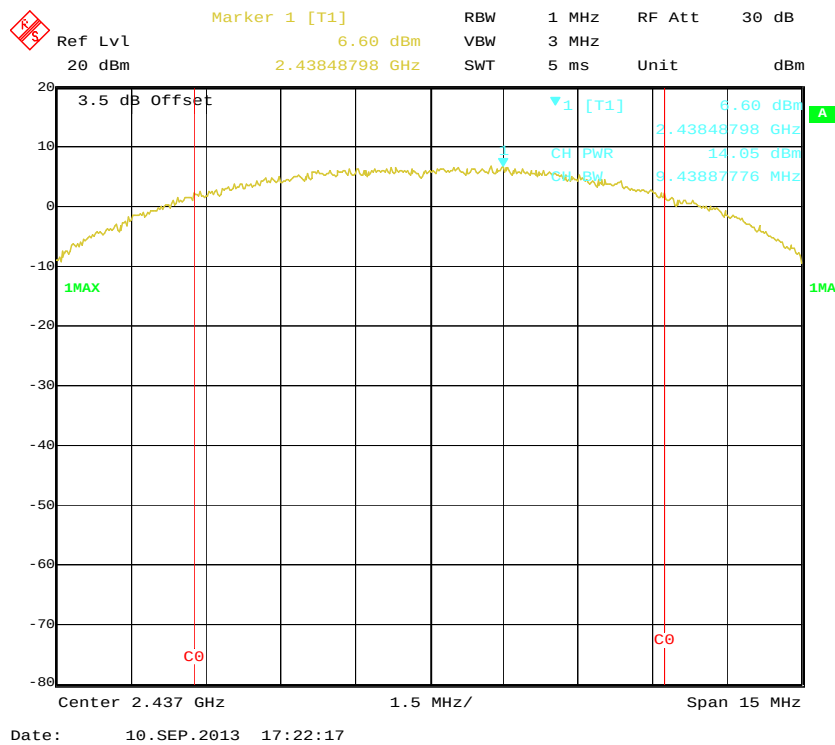
EUT operation mode: Transmitting

Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Peak Output Power (dBm)	Conducted Average Output Power (dBm)	Limit (dBm)	Result
802.11b mode						
Low	2412	1	12.59	9.36	30	Pass
Middle	2437	1	14.05	9.51	30	Pass
High	2462	1	14.34	9.67	30	Pass
802.11g mode						
Low	2412	6	14.29	9.21	30	Pass
Middle	2437	6	14.48	9.52	30	Pass
High	2462	6	14.99	9.63	30	Pass
802.11n-HT20 mode						
Low	2412	MCS0	14.39	9.10	30	Pass
Middle	2437	MCS0	14.69	9.50	30	Pass
High	2462	MCS0	15.07	9.50	30	Pass

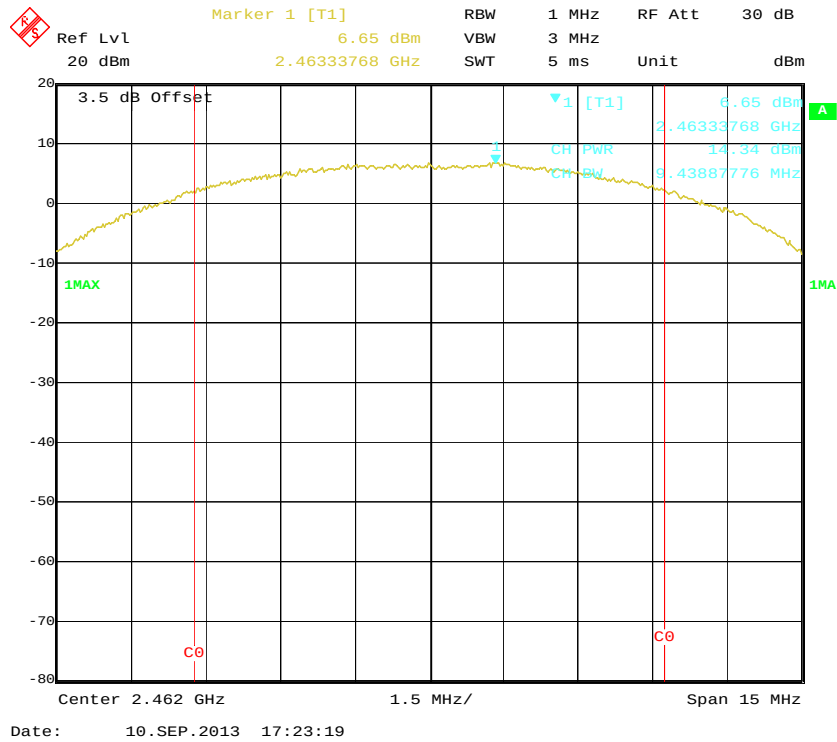
802.11b, RF Peak Output Power, Low Channel



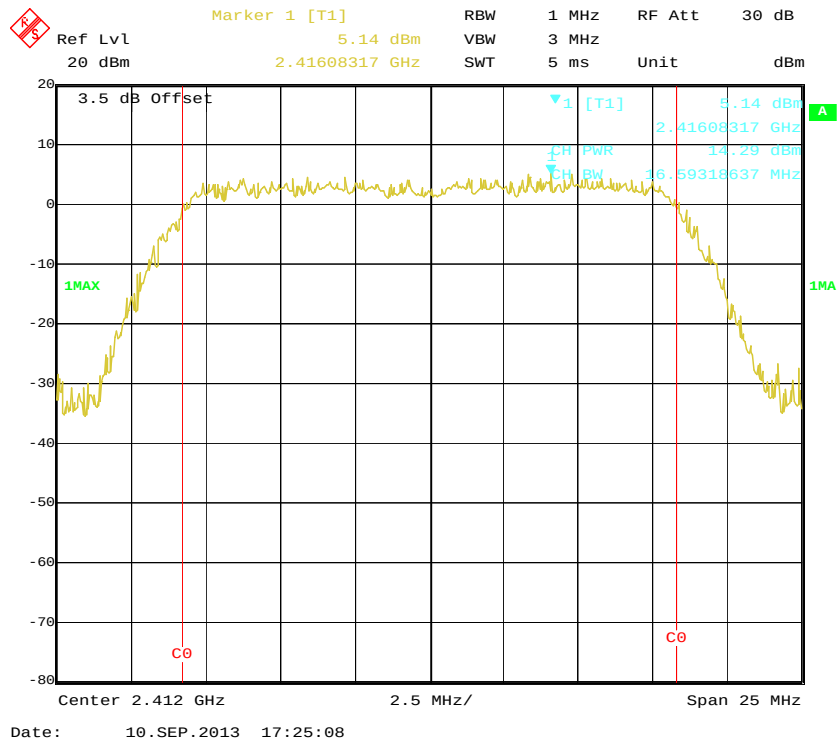
802.11b, RF Peak Output Power, Middle Channel



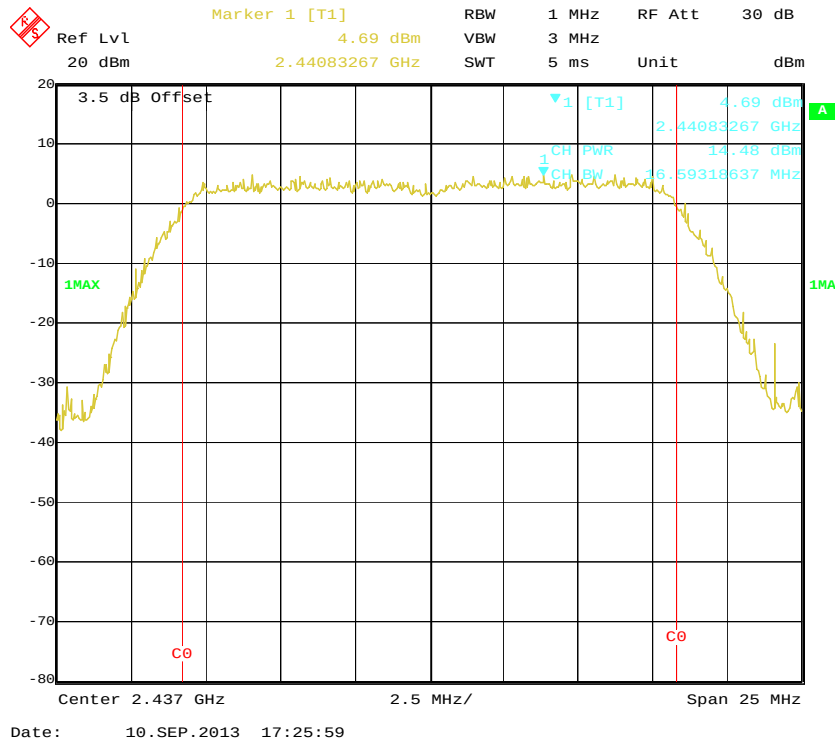
802.11b, RF Peak Output Power, High Channel



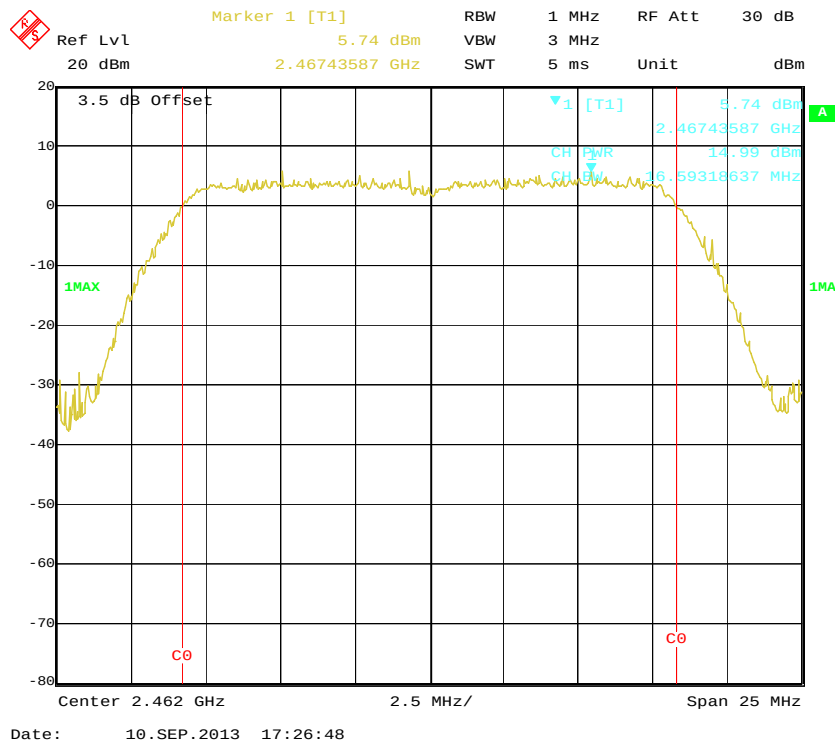
802.11g, RF Peak Output Power, Low Channel



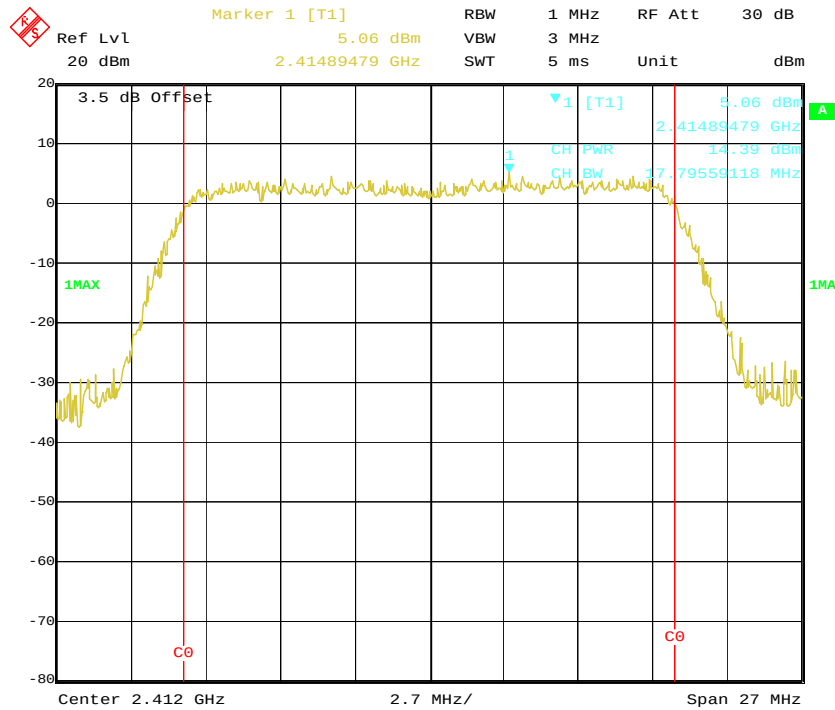
802.11g, RF Peak Output Power, Middle Channel



802.11g, RF Peak Output Power, High Channel

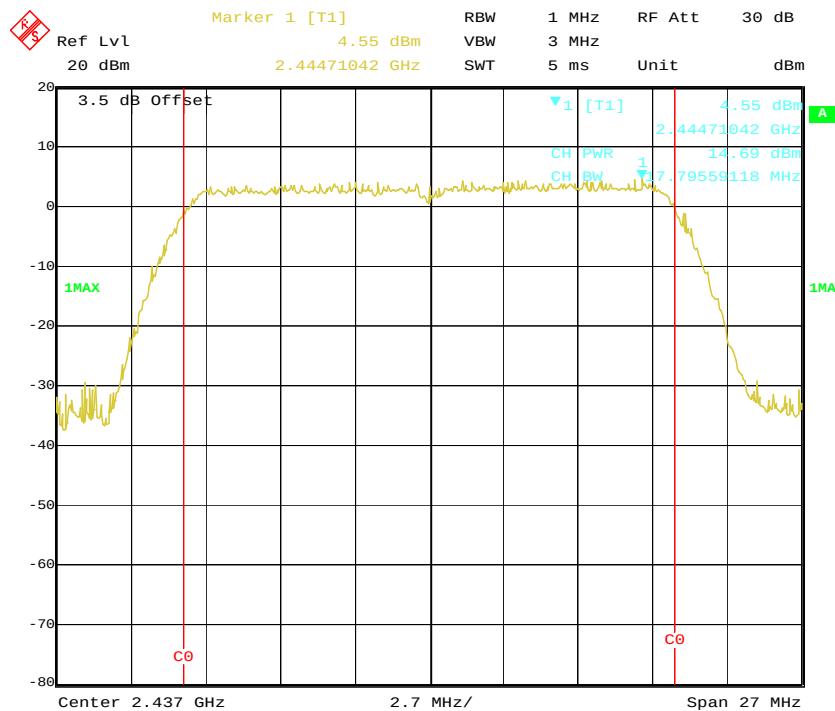


802.11n-HT20, RF Peak Output Power, Low Channel



Date: 10.SEP.2013 17:30:17

802.11n-HT20, RF Peak Output Power, Middle Channel



Date: 10.SEP.2013 17:30:55

Ref Lvl 20 dBm

Marker 1 [T1] 5.33 dBm

2.46819539 GHz

RBW 1 MHz

VBW 3 MHz

SWT 5 ms

RF Att 30 dB

Unit dBm

3.5 dB Offset

1MAX

1MA

Center 2.462 GHz

2.7 MHz/

Span 27 MHz

Date: 10.SEP.2013 17:31:48

Ref Lvl 20 dBm

Marker 1 [T1] 1.30 dBm

2.41261623 GHz

RBW 1 MHz

VBW 3 MHz

SWT 5 ms

RF Att 30 dB

3.5 dB Offset

CH PWR 1.30 dBm

CH BW 5.43887776 MHz

1MAX

1

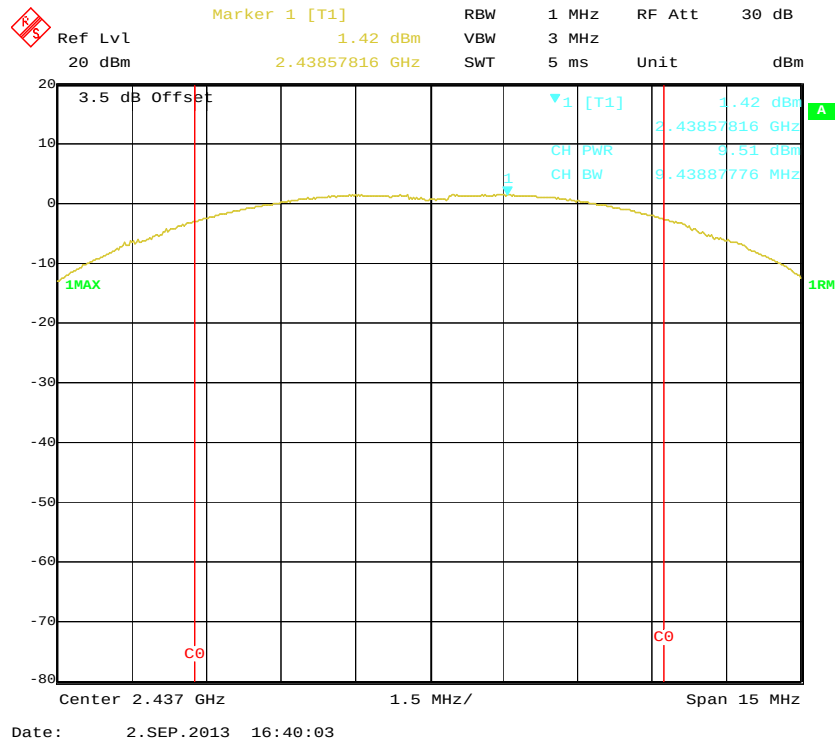
1RM

Center 2.412 GHz

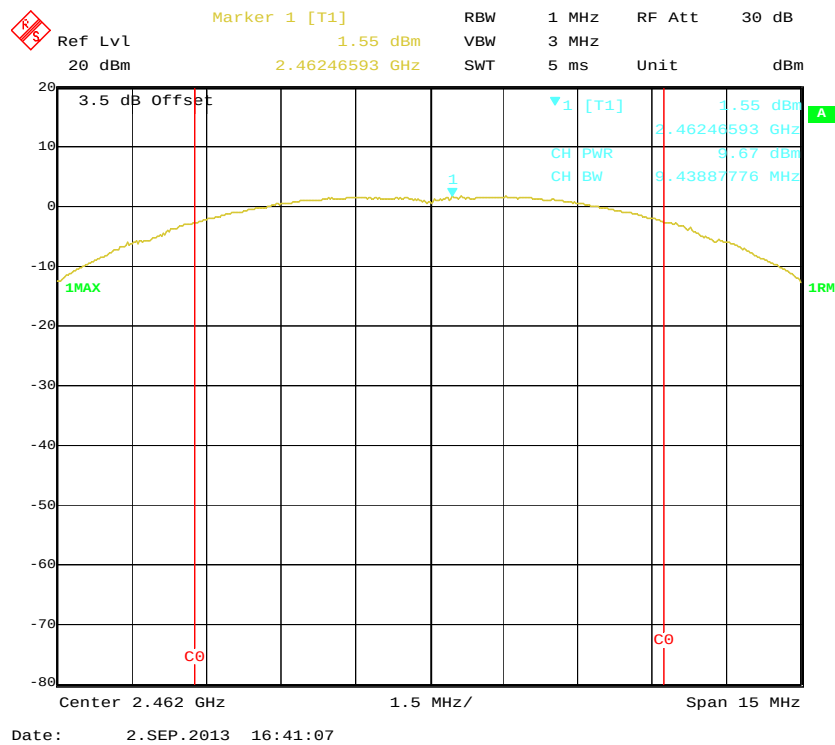
Span 15 MHz

Date: 2.SEP.2013 16:35:14

802.11b, RF Average Output Power, Middle Channel



802.11b, RF Average Output Power, High Channel



Ref Lvl 20 dBm

Marker 1 [T1] -1.34 dBm

RBW 1 MHz RF Att 30 dB

VBW 3 MHz

SWT 5 ms Unit dBm

3.5 dB Offset

3.5 dB Offset

1MAX

1RM

Center 2.412 GHz

Span 25 MHz

Date: 2.SEP.2013 16:42:50

Ref Lvl 20 dBm

Marker 1 [T1] -1.04 dBm

RBW 1 MHz

VBW 3 MHz

SWT 5 ms

RF Att 30 dB

Unit dBm

3.5 dB Offset

1MAX

1 [T1] -1.04 dBm

2.44283667 GHz

CH PWR 9.52 dBm

CH BW 36.59318637 MHz

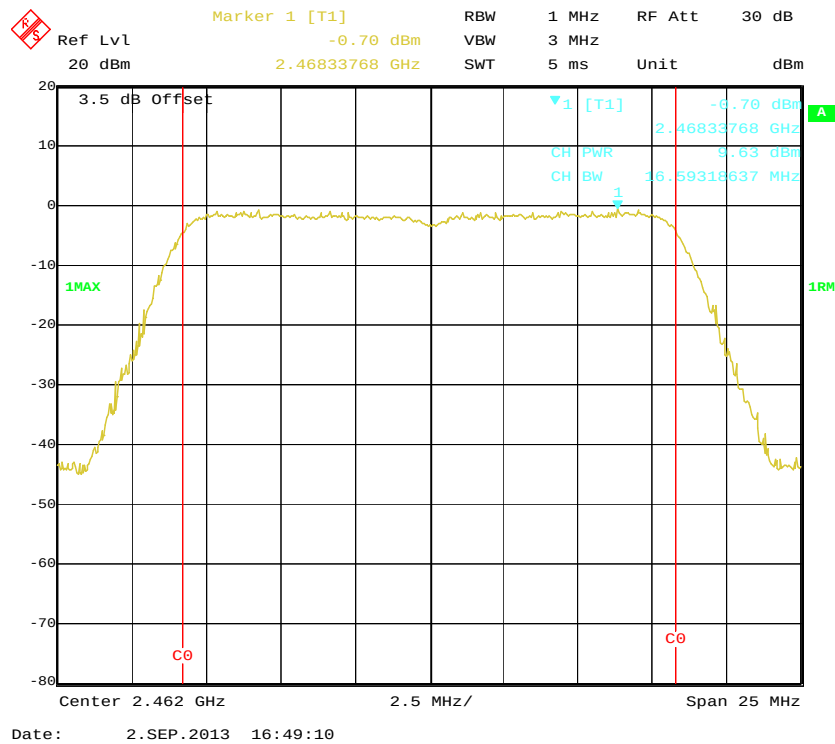
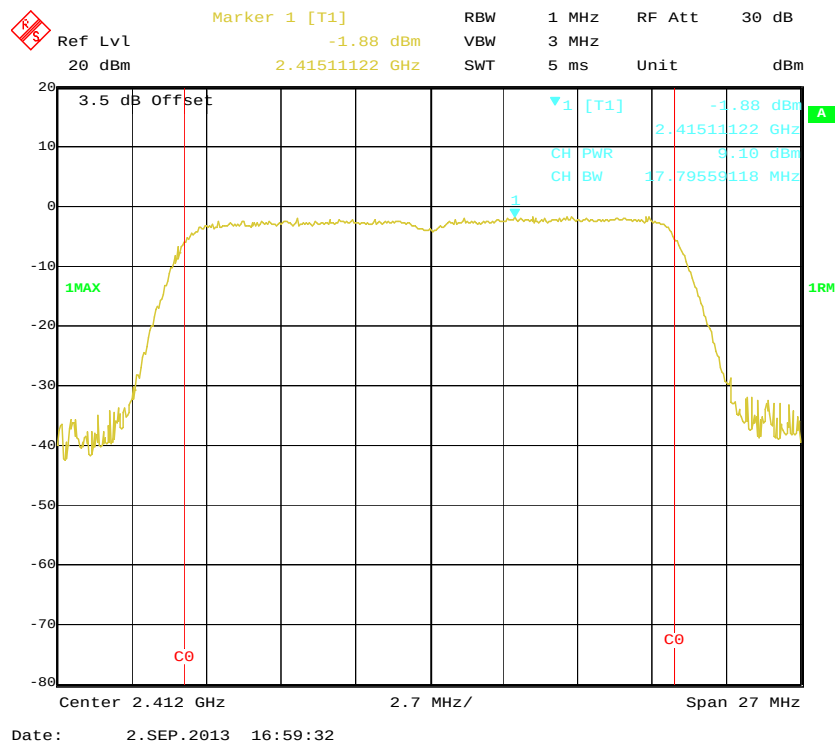
1RM

Center 2.437 GHz

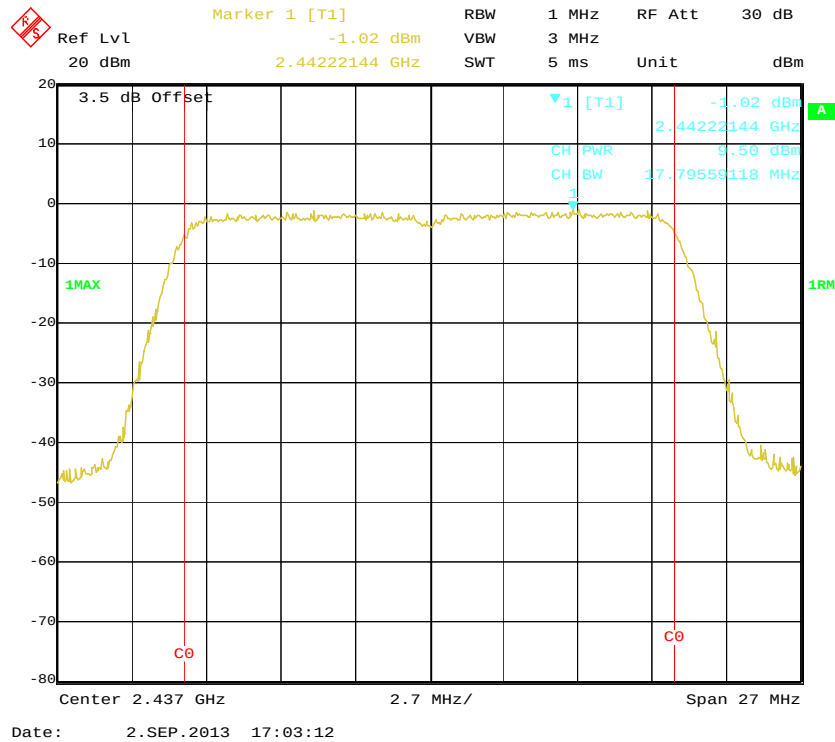
2.5 MHz/

Span 25 MHz

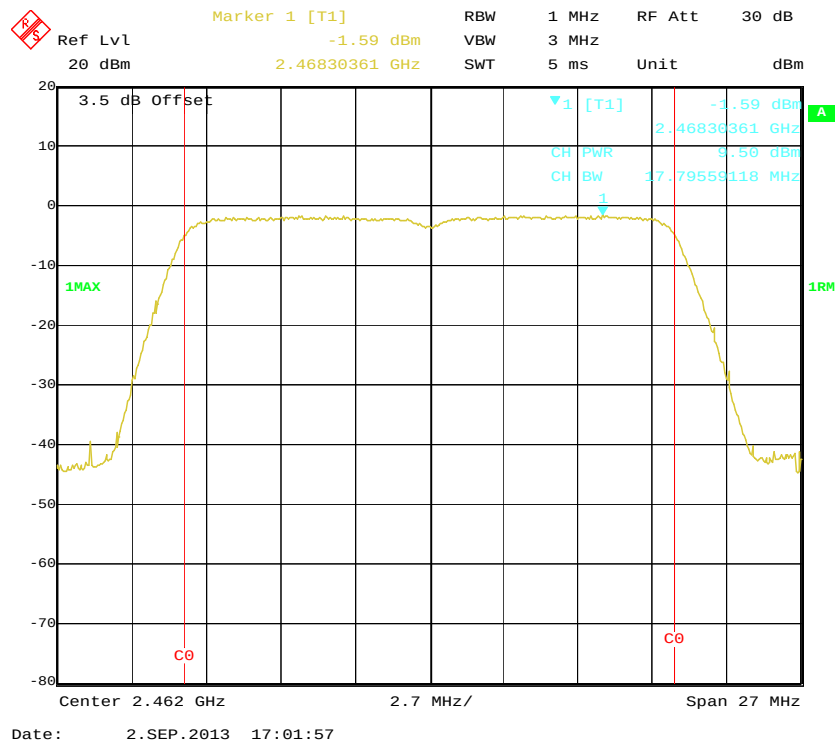
Date: 2.SEP.2013 16:44:03

802.11g, RF Average Output Power, High Channel**802.11n-HT20, RF Average Output Power, Low Channel**

802.11n-HT20, RF Average Output Power, Middle Channel



802.11n-HT20, RF Average Output Power, High Channel



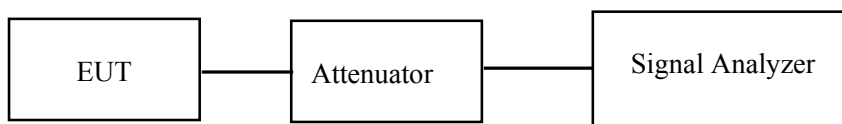
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

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

According to KDB 558074 D01 DTS Meas Guidance v03r01

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 100 kHz and VBW of spectrum analyzer to 300 kHz 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	Signal Analyzer	FSIQ26	8386001028	2012-11-24	2013-11-23

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	25 ° C
Relative Humidity:	55 %
ATM Pressure:	100.1 kPa

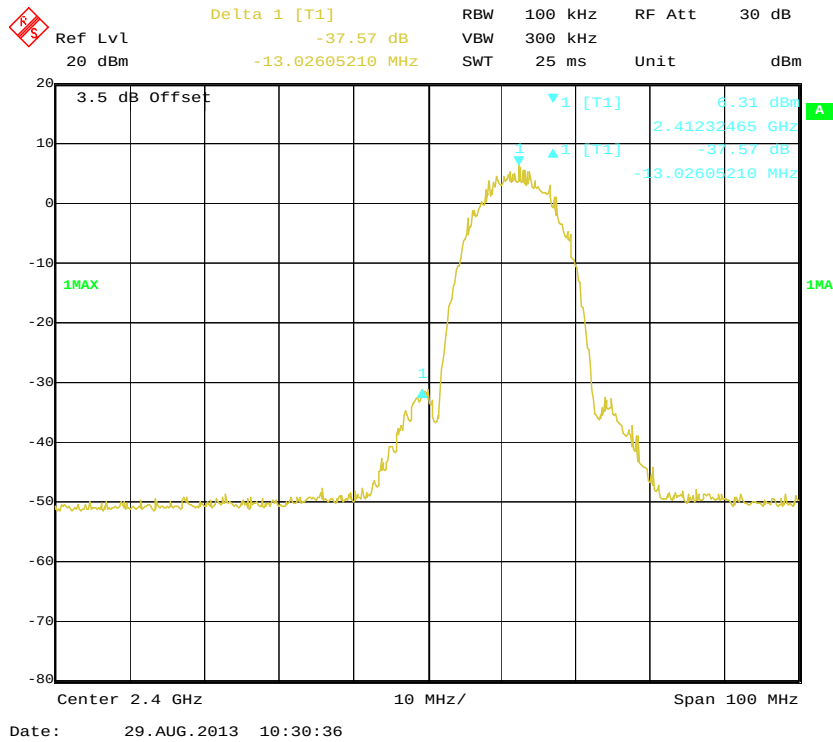
The testing was performed by Gardon Zhang on 2013-08-29.

EUT operation mode: Transmitting

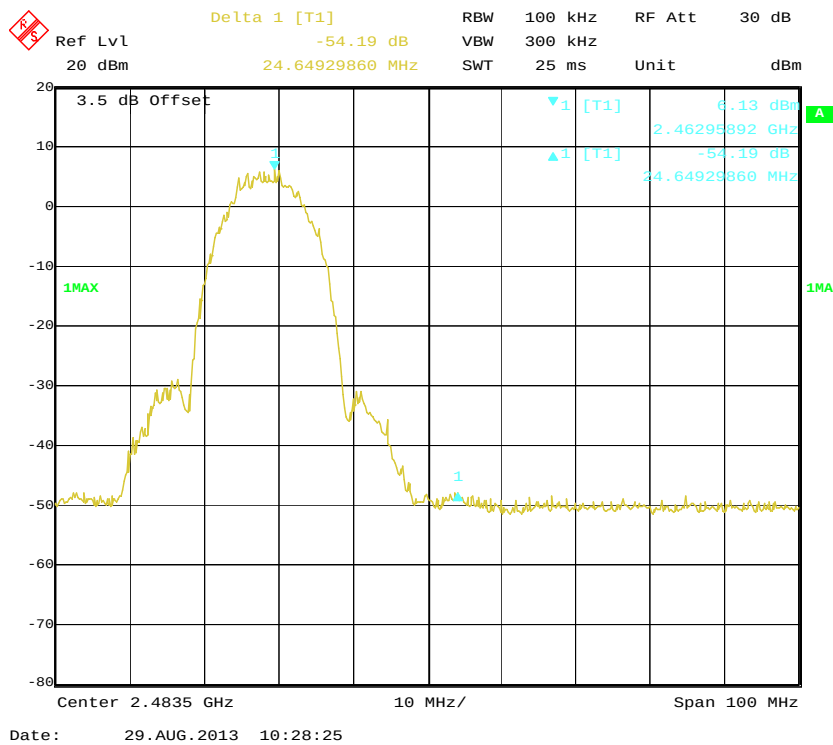
Test Result: *Compliance.* Please refer to following plots.

Band edge	Delta Peak to band emission (dBc)	Limit (dBc)	Result
802.11b			
Left band	37.57	≥ 20	Pass
Right band	54.19	≥ 20	Pass
802.11g			
Left band	33.84	≥ 20	Pass
Right band	46.70	≥ 20	Pass
802.11n20			
Left band	35.00	≥ 20	Pass
Right band	44.41	≥ 20	Pass

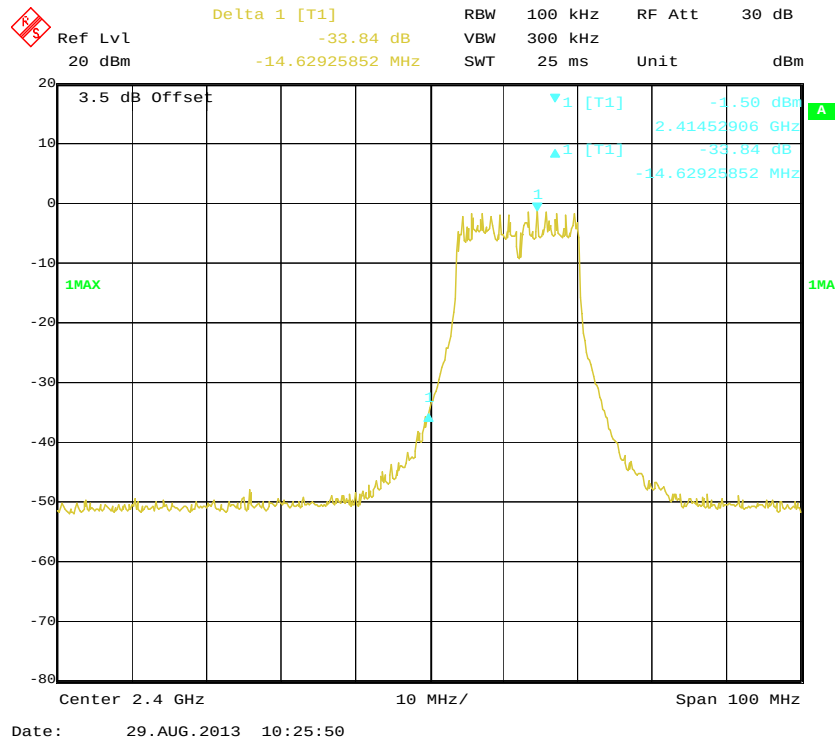
802.11b Band Edge, Left Side



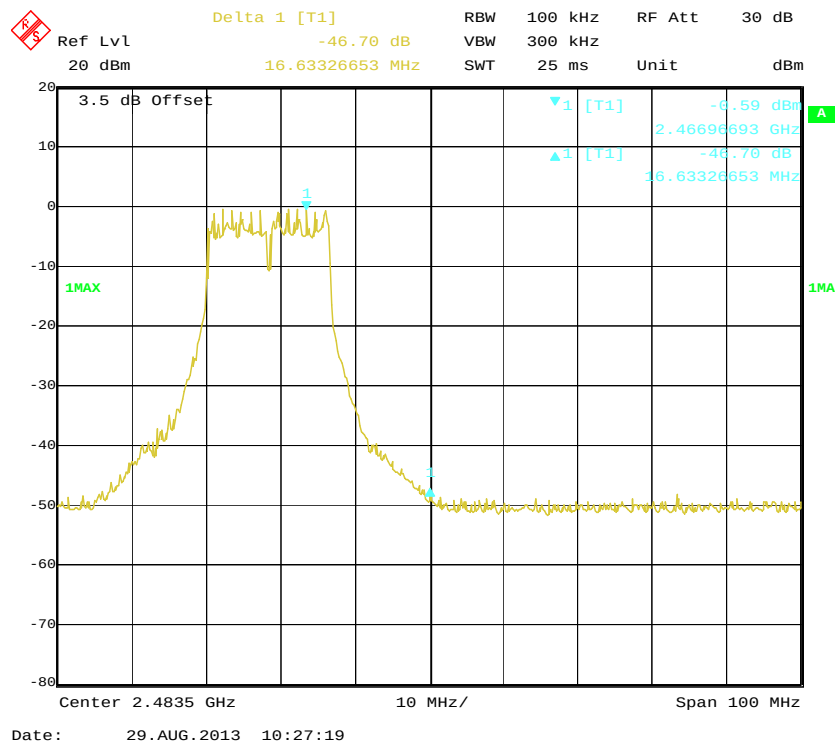
802.11b Band Edge, Right Side



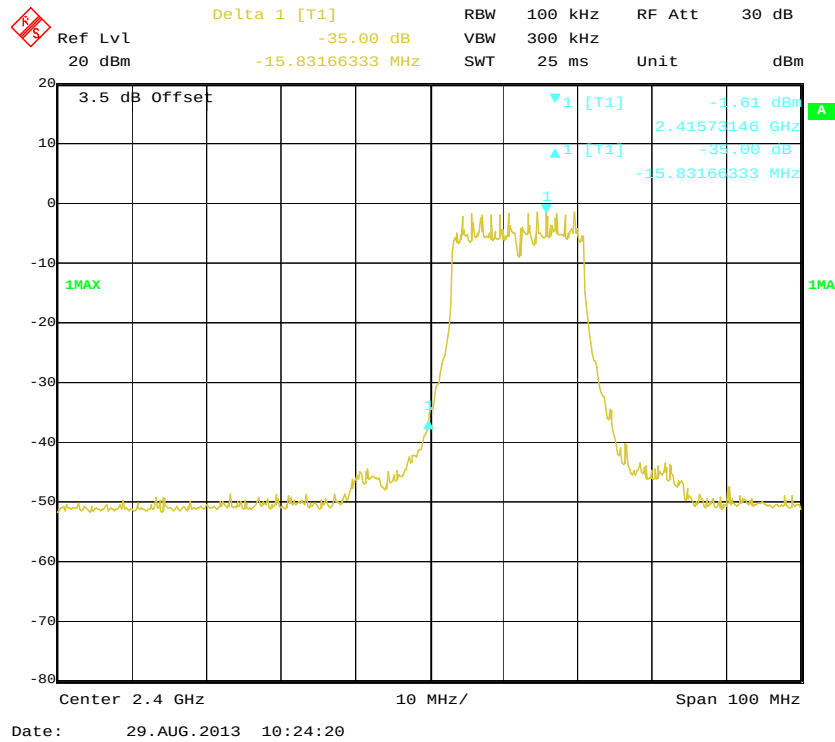
802.11g Band Edge, Left Side



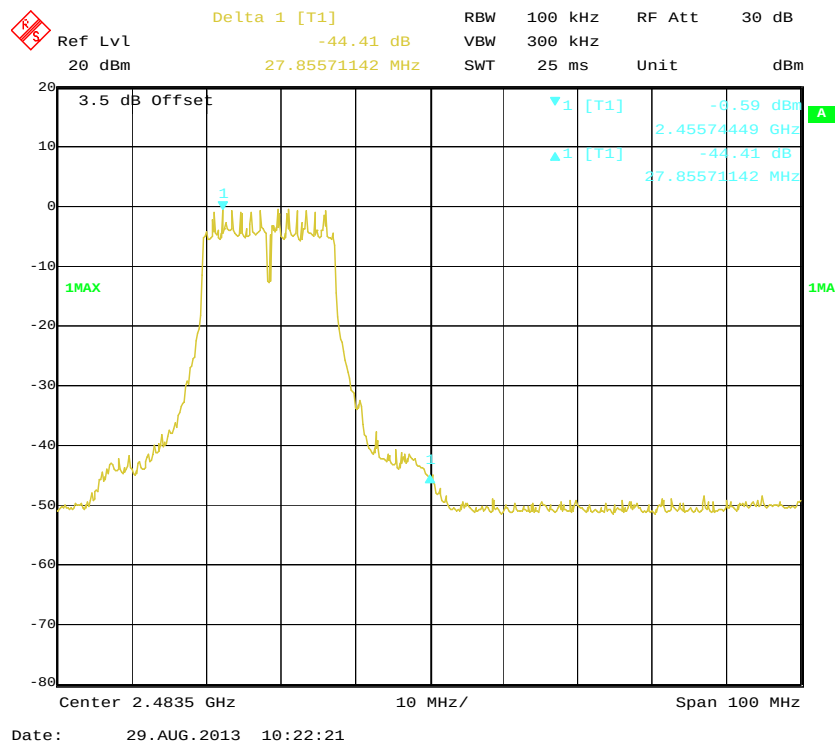
802.11g Band Edge, Right Side



802.11n-HT20 Band Edge, Left Side



802.11n-HT20 Band Edge, Right Side



FCC §15.247(e) - POWER SPECTRAL DENSITY

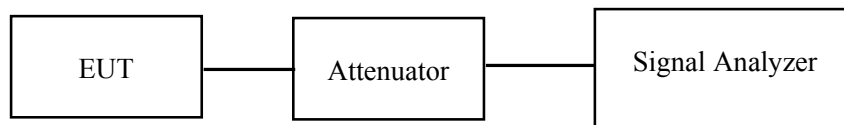
Applicable Standard

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

According to KDB 558074 D01 DTS Meas Guidance v03r01

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.
10. If measurement value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2012-11-24	2013-11-23

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	55 %
ATM Pressure:	100.1 kPa

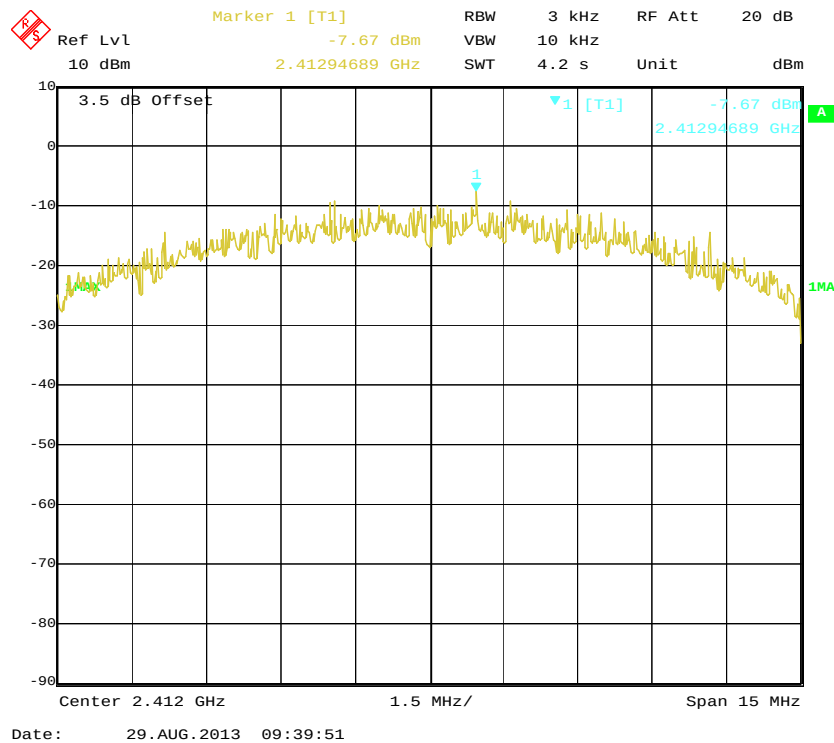
The testing was performed by Gardon Zhang on 2013-08-29.

EUT operation mode: Transmitting

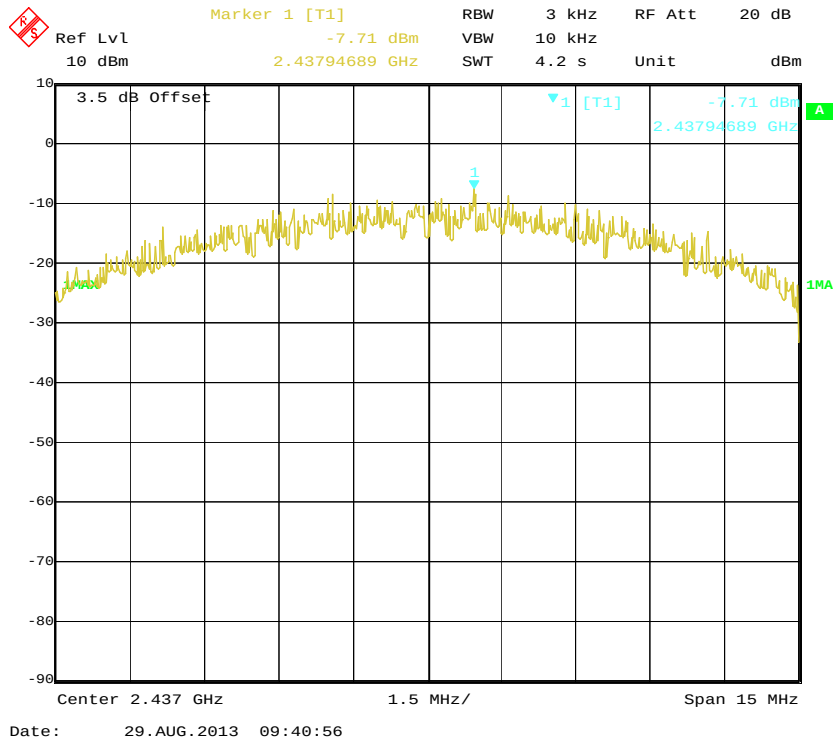
Test Result: Pass

Channel	Frequency (MHz)	Data Rate (Mbps)	Correct Power spectral density (dBm/3 kHz)	≤Limit (dBm)
802.11b mode				
Low	2412	1	-7.67	8
Middle	2437	1	-7.71	8
High	2462	1	-8.08	8
802.11g mode				
Low	2412	6	-16.56	8
Middle	2437	6	-18.17	8
High	2462	6	-16.52	8
802.11n-HT20 mode				
Low	2412	MCS0	-17.74	8
Middle	2437	MCS0	-17.52	8
High	2462	MCS0	-16.00	8

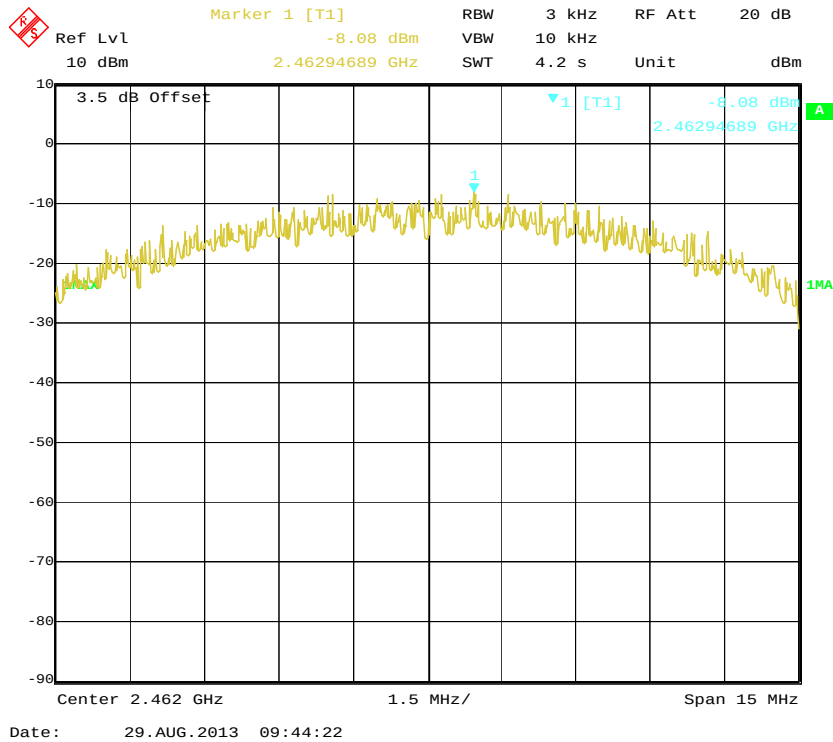
Power Spectral Density, 802.11b Low Channel



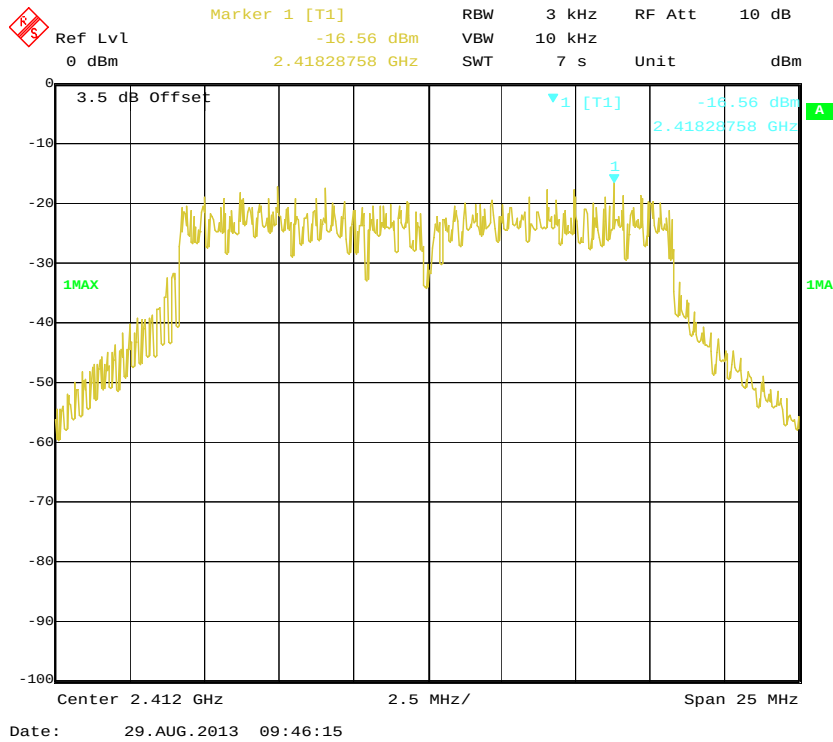
Power Spectral Density, 802.11b Middle Channel



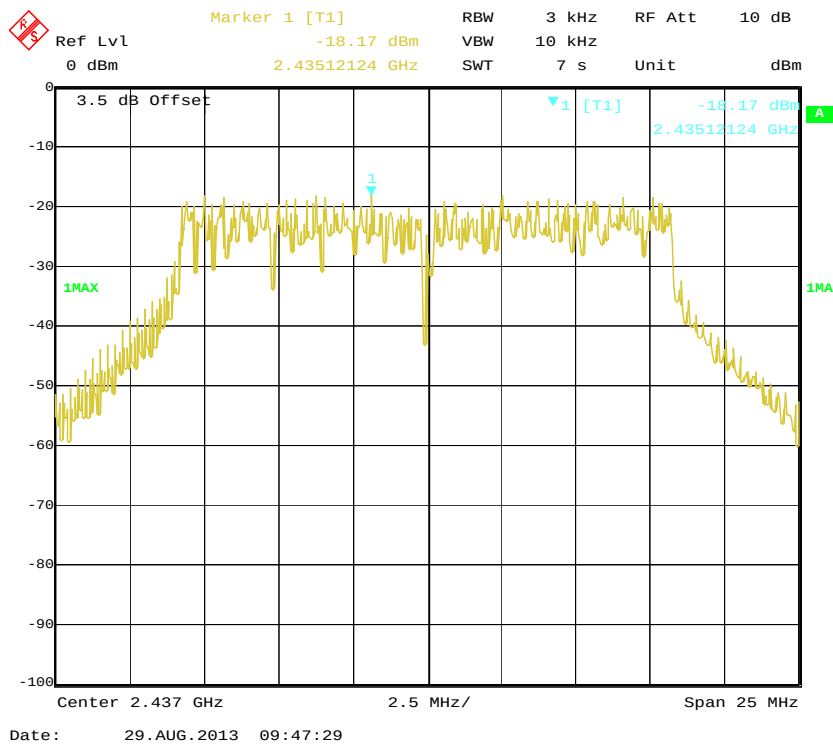
Power Spectral Density, 802.11b High Channel



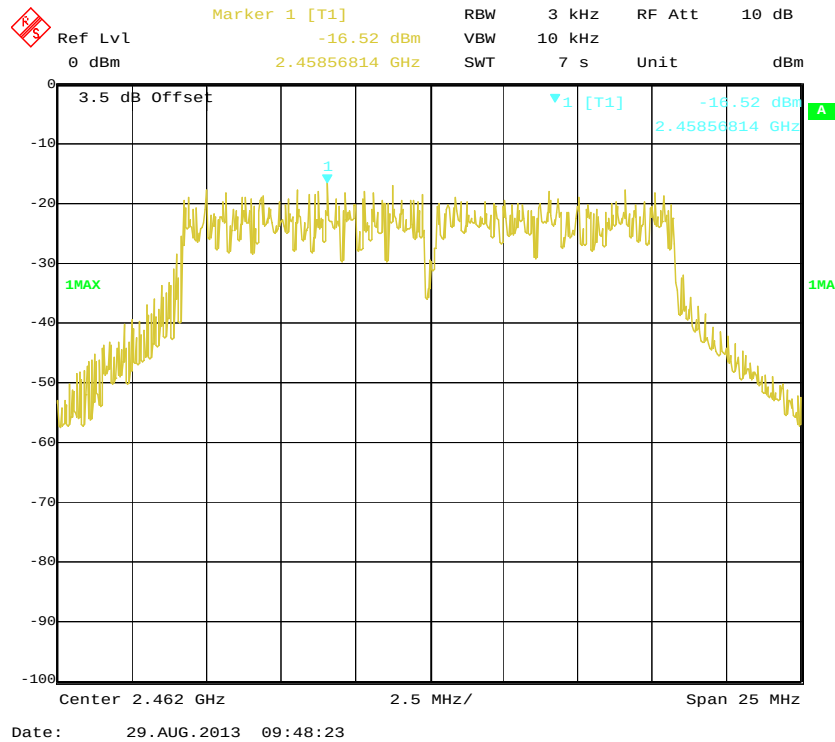
Power Spectral Density, 802.11g Low Channel



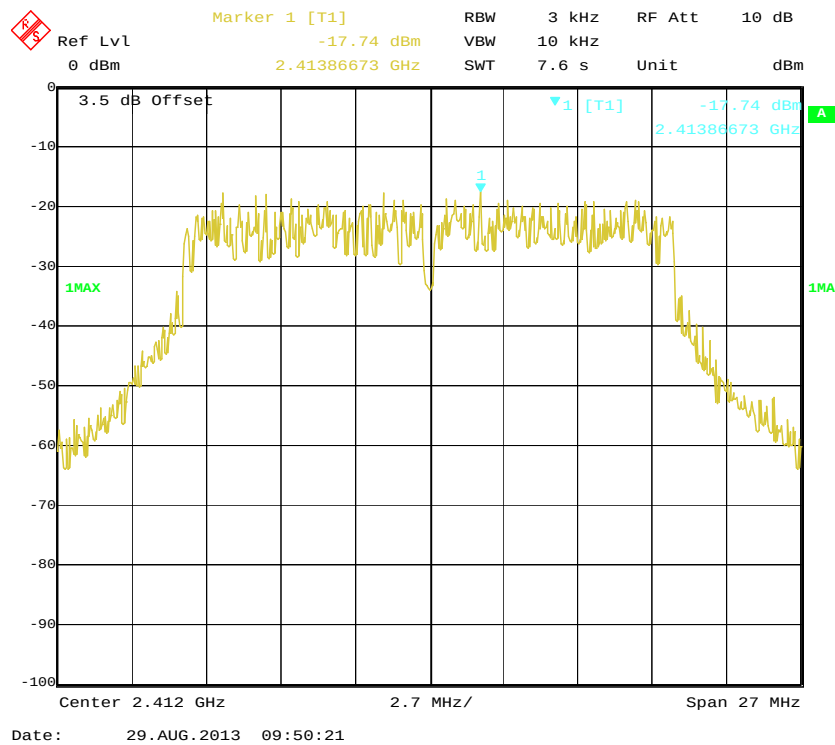
Power Spectral Density, 802.11g Middle Channel



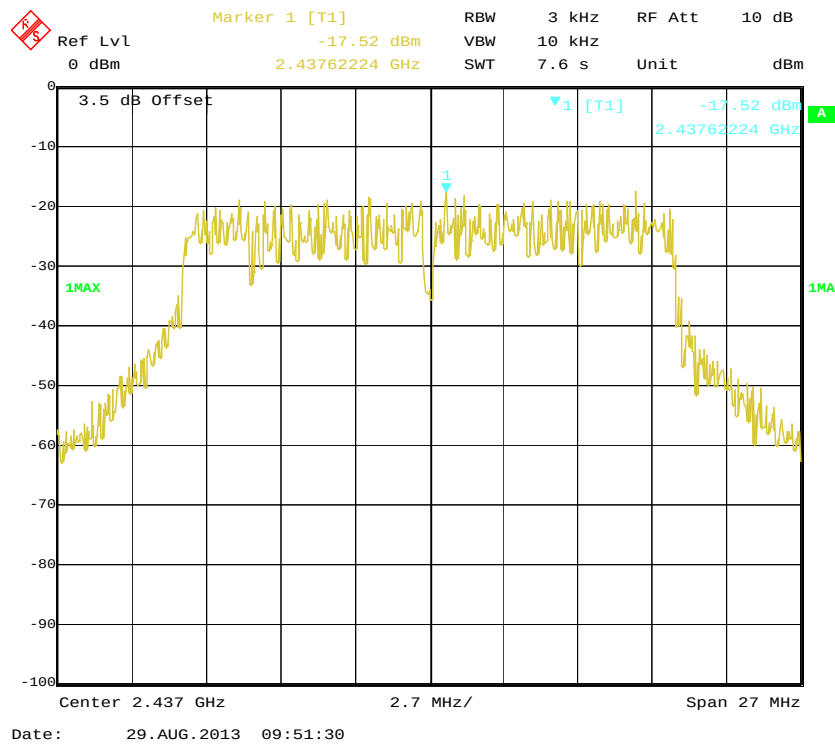
Power Spectral Density, 802.11g High Channel



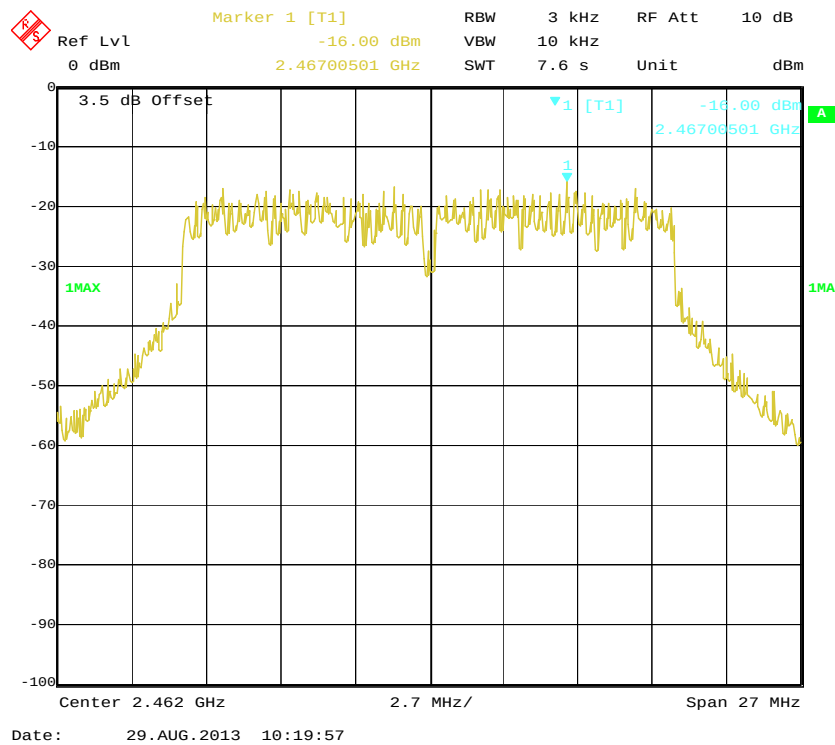
Power Spectral Density, 802.11n-HT20 Low Channel



Power Spectral Density, 802.11n-HT20 Middle Channel



Power Spectral Density, 802.11n-HT20 High Channel



PRODUCT SIMILARITY DECLARATION LETTER

Shenzhen YIDONG Technology Co., Ltd.
Floor 1-5, Building B, Area B, Yuanfen Industrial Zone, Dalang, Bao'an District, Shenzhen, China
Tel: 0755-82507136 Fax: 0755-82507126

Declaration Letter of Product Similarity

To whom it may concern:

We, **Shenzhen YIDONG Technology Co., Ltd.** declared that our product Tablet PC have two models: **RCT6691W3** and **EMR3194**, FCC ID.: **LU7-RCT6691W3**, they were identical inside, since the electrical circuit design, layout, components used and internal wiring were identical for the above items, with only difference being the **printing&shell color**.

RCT6691W3 was tested by BACL.

Sincerely yours

Signature:

Li. Guoquan

Guoquan Li
Project Manager
2013-8-28

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