



FCC PART 15.247

TEST REPORT

For

Hangzhou Gubei Electronics Technology Co., Ltd

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FCC ID: 2ACDZ-E-REMOTE

Report Type: Original Report	Product Type: e-Remote
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Hangzhou Gubei Electronics Technology Co., Ltd*'s product, model number: *RM Pro (FCC ID: 2ACDZ-E-REMOTE)* (or the "EUT") in this report was an *e-Remote*, which was measured approximately: 11.5 cm (L) x 11.0 cm (W) x 3.5 cm (H), rated input voltage: DC 5V from adapter.

Adapter information:

Model: JHD-AP006U-050100AB

Input: AC 100-240V, 50/60Hz, 0.3A

Output: DC 5V, 1000mA

Manufacture: Shenzhen Jihongda Power Co., Ltd

Note: The series product, model RM2, RM1, RM Home, RM3, RM Pro are electrically identical, the difference between them is just the model name, we selected RM Pro for fully testing, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 140504052 (Assigned by BACL, Dongguan). The EUT was received on 2014-05-13.

Objective

This report is prepared on behalf of *Hangzhou Gubei Electronics Technology Co., Ltd* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communications Commission's rules.

The tests were performed in order to determine the compliance of the EUT 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 15.231 DSR submissions with FCC ID: 2ACDZ-E-REMOTE.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, 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. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications 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 February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. 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

The system was configured for testing in an engineering mode, which was provided by manufacturer. For 2.4GHz band, 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	/	/

For 802.11b, 802.11g and 802.11n20 modes were tested with Channel 1, 6 and 11.

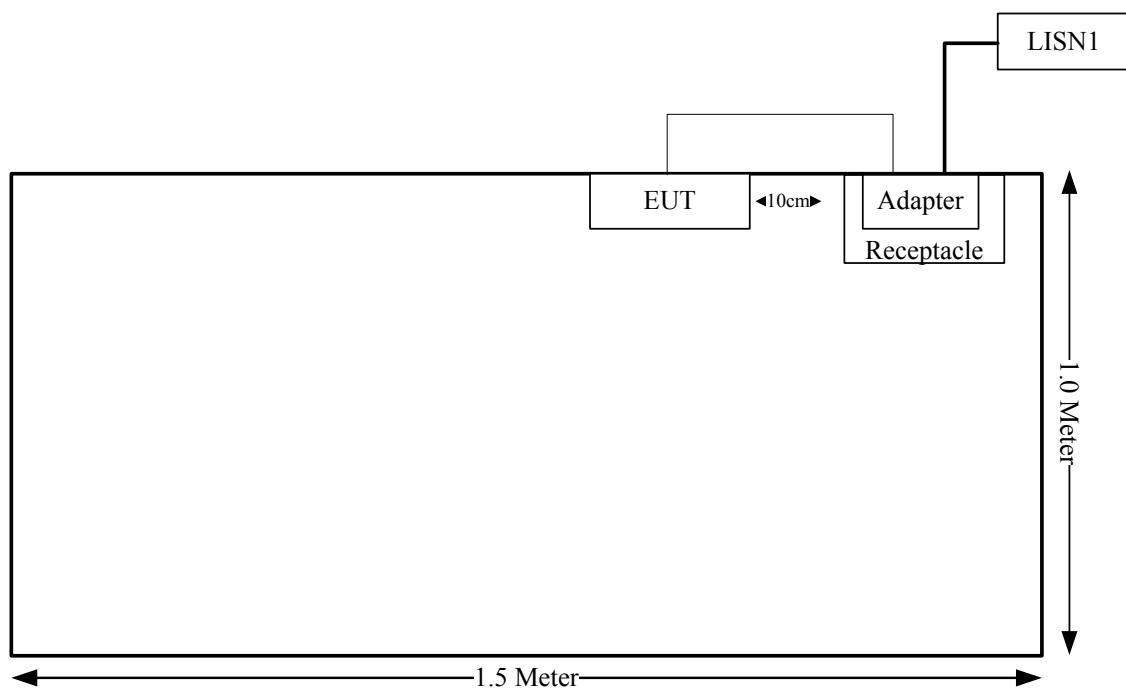
For 802.11n40 mode were tested with Channel 3, 6 and 9.

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

Test Mode	Test Software Version	CMD.exe		
		2412MHz	2437MHz	2462MHz
802.11b	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	1Mbps	1Mbps	1Mbps
	Power Level Setting	11	11	12
802.11g	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	6Mbps	6Mbps	6Mbps
	Power Level Setting	9	10	10
802.11n20	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	MCS0	MCS0	MCS0
	Power Level Setting	9	10	10
802.11n40	Test Frequency	2422MHz	2437MHz	2452MHz
	Data Rate	MCS0	MCS0	MCS0
	Power Level Setting	9	10	10

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1307 & §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)(3)	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) & §1.1307 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247(i) and subpart §1.1307, 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) (§1.1307, §2.1091)

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;

According to §1.1307 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

S = PG/4πR² = power density (in appropriate units, e.g. mW/cm²);

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, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

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	2	1.58	15.86	38.55	20	0.012	1
802.11g	2412	2	1.58	19.82	95.94	20	0.030	1
802.11n20	2462	2	1.58	19.54	89.95	20	0.028	1
802.11n40	2452	2	1.58	23.59	228.56	20	0.072	1

Result: The device meet FCC MPE at 20 cm distance

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.
- c. 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 an integral antenna, and the antenna gain is 2.0dBi, which is fulfilling the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to $U_{\text{cisp}}^{\text{r}}$ of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than $U_{\text{cisp}}^{\text{r}}$ of Table 1, then:

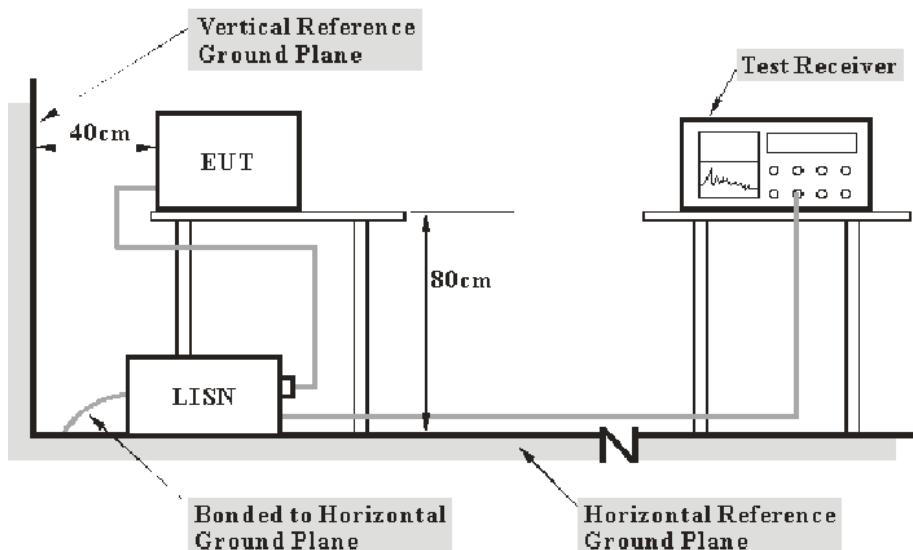
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}^{\text{r}})$, exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}^{\text{r}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2:2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of $U_{\text{cisp}}^{\text{r}}$

Measurement	$U_{\text{cisp}}^{\text{r}}$
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

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 C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

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 outlet of the first LISN and the other support equipments were connected to the outlet of the second 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 Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN

C_f : Correction Factor

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum 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
R&S	EMI Test Receiver	ESCS 30	830245/006	2013-11-20	2014-11-19
R&S	Two-line V-network	ENV216	3560.6550.12	2014-01-22	2015-01-21
R&S	L.I.S.N	ESH3-Z5	100113	N/A	N/A
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

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

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:

17.50 dB at 0.375019 MHz in the Neutral conducted mode

Test Data

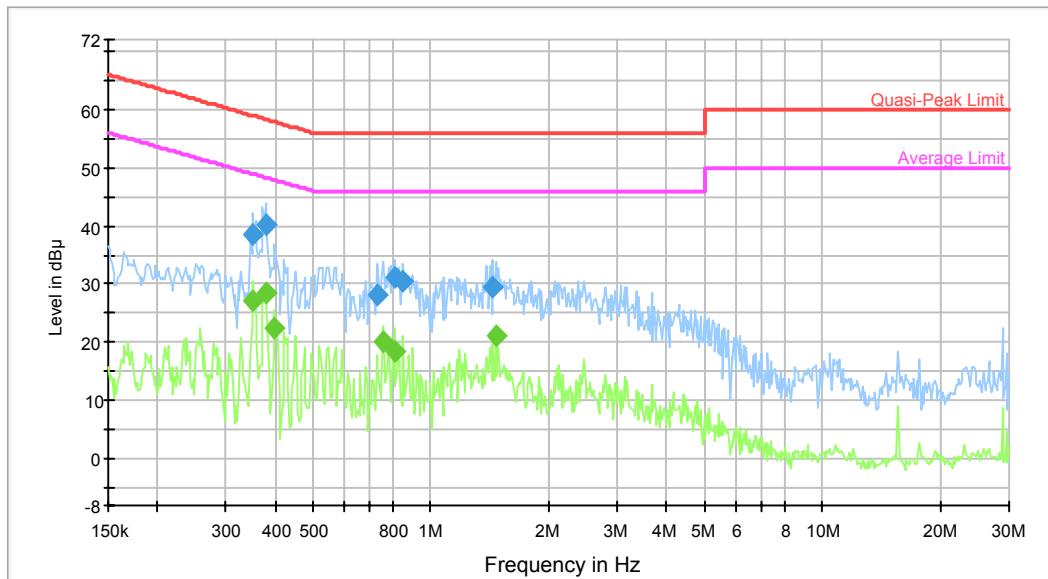
Environmental Conditions

Temperature:	27.2 °C
Relative Humidity:	55 %
ATM Pressure:	100.3 kPa

The testing was performed by Allen Qiao on 2014-07-01.

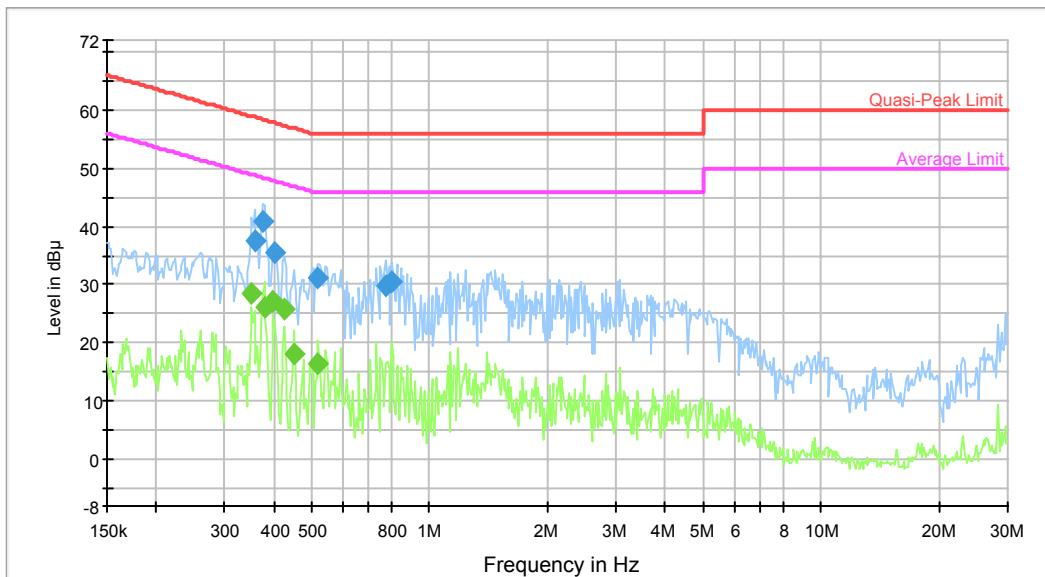
Test Mode: Transmitting

AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.351859	38.5	9.000	L1	10.7	20.4	58.9	Compliance
0.378019	40.3	9.000	L1	10.7	18.0	58.3	Compliance
0.726569	28.1	9.000	L1	10.6	27.9	56.0	Compliance
0.805868	31.2	9.000	L1	10.5	24.8	56.0	Compliance
0.852094	30.5	9.000	L1	10.5	25.5	56.0	Compliance
1.441726	29.6	9.000	L1	10.4	26.4	56.0	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.351859	27.3	9.000	L1	10.7	21.6	48.9	Compliance
0.378019	28.5	9.000	L1	10.7	19.8	48.3	Compliance
0.399703	22.6	9.000	L1	10.6	25.3	47.9	Compliance
0.756101	20.2	9.000	L1	10.6	25.8	46.0	Compliance
0.805868	18.4	9.000	L1	10.5	27.6	46.0	Compliance
1.464886	21.1	9.000	L1	10.4	24.9	46.0	Compliance

AC120 V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.357511	37.5	9.000	N	11.0	21.3	58.8	Compliance
0.375019	40.9	9.000	N	10.9	17.5	58.4	Compliance
0.402900	35.5	9.000	N	10.8	22.3	57.8	Compliance
0.519918	31.3	9.000	N	10.4	24.7	56.0	Compliance
0.774393	29.7	9.000	N	10.6	26.3	56.0	Compliance
0.799472	30.5	9.000	N	10.5	25.5	56.0	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.351859	28.5	9.000	N	11.0	20.4	48.9	Compliance
0.378019	26.1	9.000	N	10.9	22.2	48.3	Compliance
0.399703	27.1	9.000	N	10.8	20.8	47.9	Compliance
0.426011	25.7	9.000	N	10.7	21.6	47.3	Compliance
0.450448	18.3	9.000	N	10.6	28.6	46.9	Compliance
0.519918	16.5	9.000	N	10.4	29.5	46.0	Compliance

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp}_r of Table 2, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp}_r of Table 2, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_r)$, exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_r)$, exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

30M~200MHz: 5.0 dB

200M~1GHz: 6.2 dB

1G~6GHz: 4.45 dB

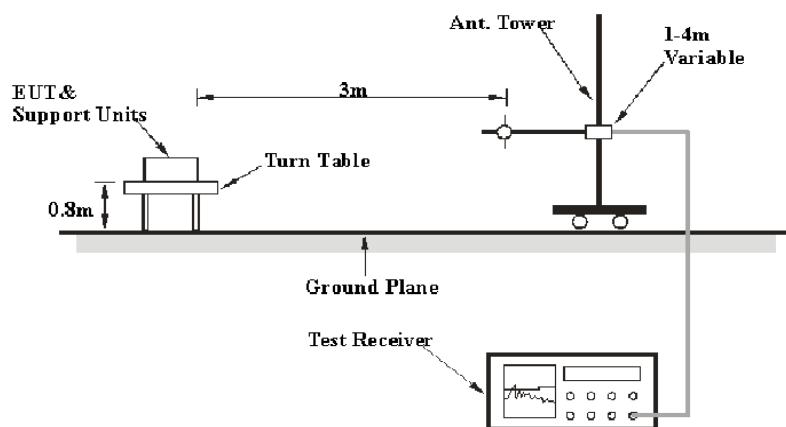
6G~18GHz: 5.23 dB

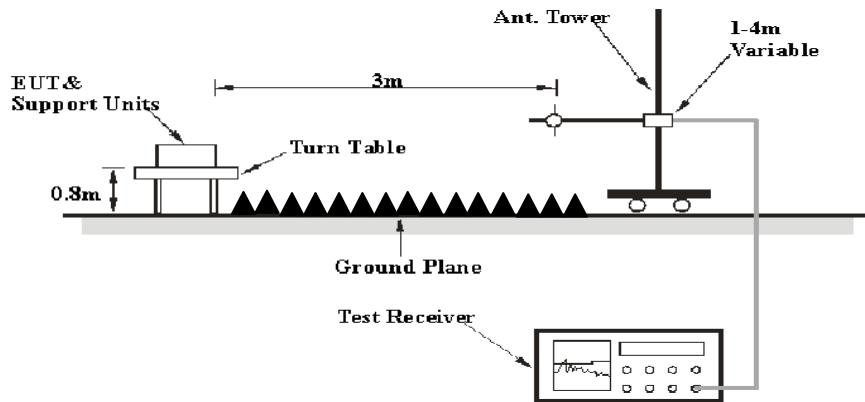
Table 2 – Values of U_{cisp}_r

Measurement	U_{cisp}_r
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1GHz:



Above 1GHz:

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 spacing between the peripherals was 10 cm.

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	IF B/W	Detector
30MHz – 1000 MHz	120 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

During the radiated emission test, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second 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, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

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

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

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
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-08
Sunol Sciences	Antenna	JB3	A060611-1	2011-09-06	2014-09-05
HP	Amplifier	8447E	2434A02181	2013-09-06	2014-09-05
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-08
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-05
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-18
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-08
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2013-09-06	2014-09-05

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

Test Results Summary

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

2.70 dB at 2390.0 MHz in the **Horizontal** polarization for 802.11n40 Mode

Test Data

Environmental Conditions

Temperature:	25.6 °C
Relative Humidity:	60 %
ATM Pressure:	99.8 kPa

The testing was performed by Allen Qiao on 2014-07-05

Mode: Transmitting
802.11b Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	FCC 15.247	
	Reading (dB μ V)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dB μ V/m)	Margin (dB)
Low Channel: 2412 MHz									
2412	66.79	PK	H	25.67	4.42	0.00	96.88	N/A	N/A
2412	63.17	AV	H	25.67	4.42	0.00	93.26	N/A	N/A
2412	64.61	PK	V	25.67	4.42	0.00	94.70	N/A	N/A
2412	61.58	AV	V	25.67	4.42	0.00	91.67	N/A	N/A
2390	25.56	PK	H	25.61	4.39	0.00	55.56	74.00	18.44
2390	13.60	AV	H	25.61	4.39	0.00	43.60	54.00	10.40
4824	42.30	PK	H	30.64	6.03	27.41	51.56	74.00	22.44
4824	40.12	AV	H	30.64	6.03	27.41	49.38	54.00	4.62
7236	30.32	PK	H	34.17	7.47	25.90	46.06	74.00	27.94
7236	19.97	AV	H	34.17	7.47	25.90	35.71	54.00	18.29
9648	28.56	PK	H	36.06	8.81	27.46	45.97	74.00	28.03
9648	16.67	AV	H	36.06	8.81	27.46	34.08	54.00	19.92
2845	36.88	PK	H	26.80	5.90	27.55	42.03	74.00	31.97
2845	31.17	AV	H	26.80	5.90	27.55	36.32	54.00	17.68
42.59	33.15	QP	V	12.57	0.84	21.42	25.14	40.00	14.86
Middle Channel: 2437 MHz									
2437	66.06	PK	H	25.74	4.41	0.00	96.21	N/A	N/A
2437	62.95	AV	H	25.74	4.41	0.00	93.10	N/A	N/A
2437	63.67	PK	V	25.74	4.41	0.00	93.82	N/A	N/A
2437	60.29	AV	V	25.74	4.41	0.00	90.44	N/A	N/A
4874	41.53	PK	H	30.77	6.09	27.42	50.97	74.00	23.03
4874	37.56	AV	H	30.77	6.09	27.42	47.00	54.00	7.00
7311	31.81	PK	H	34.35	7.51	25.88	47.79	74.00	26.21
7311	19.19	AV	H	34.35	7.51	25.88	35.17	54.00	18.83
9748	28.56	PK	H	36.30	8.83	27.24	46.45	74.00	27.55
9748	16.67	AV	H	36.30	8.83	27.24	34.56	54.00	19.44
2845	36.43	PK	H	26.80	5.90	27.55	41.58	74.00	32.42
2845	31.01	AV	H	26.80	5.90	27.55	36.16	54.00	17.84
7015	31.79	PK	H	33.64	7.35	26.22	46.56	74.00	27.44
7015	19.30	AV	H	33.64	7.35	26.22	34.07	54.00	19.93
43.62	32.69	QP	V	11.88	0.87	21.42	24.02	40.00	15.98
High Channel: 2462 MHz									
2462	67.65	PK	H	25.80	4.43	0.00	97.88	N/A	N/A
2462	64.45	AV	H	25.80	4.43	0.00	94.68	N/A	N/A
2462	63.64	PK	V	25.80	4.43	0.00	93.87	N/A	N/A
2462	60.28	AV	V	25.80	4.43	0.00	90.51	N/A	N/A
2483.5	25.26	PK	H	25.86	4.49	0.00	55.61	74.00	18.39
2483.5	13.36	AV	H	25.86	4.49	0.00	43.71	54.00	10.29
4924	43.42	PK	H	30.90	5.97	27.43	52.86	74.00	21.14
4924	41.30	AV	H	30.90	5.97	27.43	50.74	54.00	3.26*
7386	33.04	PK	H	34.53	7.55	25.86	49.26	74.00	24.74
7386	20.56	AV	H	34.53	7.55	25.86	36.78	54.00	17.22
9848	28.56	PK	H	36.54	8.85	26.94	47.01	74.00	26.99
9848	16.67	AV	H	36.54	8.85	26.94	35.12	54.00	18.88
2845	35.96	PK	H	26.80	5.90	27.55	41.11	74.00	32.89
2845	30.15	AV	H	26.80	5.90	27.55	35.30	54.00	18.70
41.67	33.03	QP	V	13.21	0.83	21.42	25.65	40.00	14.35

*Within measurement uncertainty!

802.11g Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	FCC 15.247	
	Reading (dB μ V)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dB μ V/m)	Margin (dB)
Low Channel: 2412 MHz									
2412	66.76	PK	H	25.67	4.42	0.00	96.85	N/A	N/A
2412	58.14	AV	H	25.67	4.42	0.00	88.23	N/A	N/A
2412	64.48	PK	V	25.67	4.42	0.00	94.57	N/A	N/A
2412	55.54	AV	V	25.67	4.42	0.00	85.63	N/A	N/A
2390	28.92	PK	H	25.61	4.39	0.00	58.92	74.00	15.08
2390	15.75	AV	H	25.61	4.39	0.00	45.75	54.00	8.25
4824	41.51	PK	H	30.64	6.03	27.41	50.77	74.00	23.23
4824	26.70	AV	H	30.64	6.03	27.41	35.96	54.00	18.04
7236	30.16	PK	H	34.17	7.47	25.90	45.90	74.00	28.10
7236	19.75	AV	H	34.17	7.47	25.90	35.49	54.00	18.51
9648	28.43	PK	H	36.06	8.81	27.46	45.84	74.00	28.16
9648	16.59	AV	H	36.06	8.81	27.46	34.00	54.00	20.00
2845	36.95	PK	H	26.80	5.90	27.55	42.10	74.00	31.90
2845	31.25	AV	H	26.80	5.90	27.55	36.40	54.00	17.60
42.59	33.53	QP	V	12.57	0.84	21.42	25.52	40.00	14.48
Middle Channel: 2437 MHz									
2437	66.83	PK	H	25.74	4.41	0.00	96.98	N/A	N/A
2437	55.50	AV	H	25.74	4.41	0.00	85.65	N/A	N/A
2437	60.75	PK	V	25.74	4.41	0.00	90.90	N/A	N/A
2437	51.90	AV	V	25.74	4.41	0.00	82.05	N/A	N/A
4874	41.68	PK	H	30.77	6.09	27.42	51.12	74.00	22.88
4874	37.25	AV	H	30.77	6.09	27.42	46.69	54.00	7.31
7311	31.98	PK	H	34.35	7.51	25.88	47.96	74.00	26.04
7311	19.05	AV	H	34.35	7.51	25.88	35.03	54.00	18.97
9748	28.44	PK	H	36.30	8.83	27.24	46.33	74.00	27.67
9748	16.79	AV	H	36.30	8.83	27.24	34.68	54.00	19.32
2845	36.59	PK	H	26.80	5.90	27.55	41.74	74.00	32.26
2845	31.29	AV	H	26.80	5.90	27.55	36.44	54.00	17.56
7015	31.81	PK	H	33.64	7.35	26.22	46.58	74.00	27.42
7015	19.48	AV	H	33.64	7.35	26.22	34.25	54.00	19.75
43.62	32.98	QP	V	11.88	0.87	21.42	24.31	40.00	15.69
High Channel: 2462 MHz									
2462	67.51	PK	H	25.80	4.43	0.00	97.74	N/A	N/A
2462	59.17	AV	H	25.80	4.43	0.00	89.40	N/A	N/A
2462	64.09	PK	V	25.80	4.43	0.00	94.32	N/A	N/A
2462	54.39	AV	V	25.80	4.43	0.00	84.62	N/A	N/A
2483.5	26.44	PK	H	25.86	4.49	0.00	56.79	74.00	17.21
2483.5	13.47	AV	H	25.86	4.49	0.00	43.82	54.00	10.18
4924	45.01	PK	H	30.90	5.97	27.43	54.45	74.00	19.55
4924	30.03	AV	H	30.90	5.97	27.43	39.47	54.00	14.53
7386	33.12	PK	H	34.53	7.55	25.86	49.34	74.00	24.66
7386	20.79	AV	H	34.53	7.55	25.86	37.01	54.00	16.99
9848	28.68	PK	H	36.54	8.85	26.94	47.13	74.00	26.87
9848	16.82	AV	H	36.54	8.85	26.94	35.27	54.00	18.73
2845	35.83	PK	H	26.80	5.90	27.55	40.98	74.00	33.02
2845	30.28	AV	H	26.80	5.90	27.55	35.43	54.00	18.57
41.67	33.37	QP	V	13.21	0.83	21.42	25.99	40.00	14.01

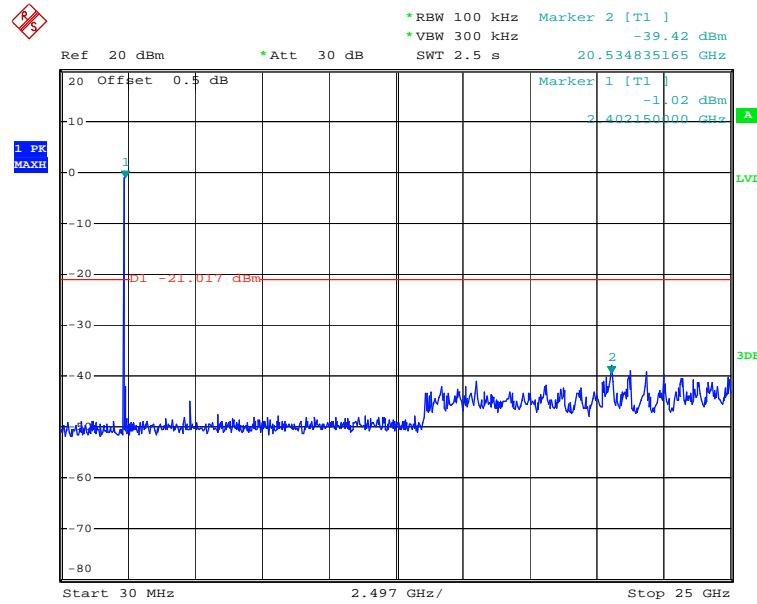
802.11 n20 Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	FCC 15.247	
	Reading (dB μ V)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB/m)				Limit (dB μ V/m)	Margin (dB)
Low Channel: 2412 MHz									
2412	66.52	PK	H	25.67	4.42	0.00	96.61	N/A	N/A
2412	58.10	AV	H	25.67	4.42	0.00	88.19	N/A	N/A
2412	61.89	PK	V	25.67	4.42	0.00	91.98	N/A	N/A
2412	51.75	AV	V	25.67	4.42	0.00	81.84	N/A	N/A
2390	34.14	PK	H	25.61	4.39	0.00	64.14	74.00	9.86
2390	17.57	AV	H	25.61	4.39	0.00	47.57	54.00	6.43
4824	45.12	PK	H	30.64	6.03	27.41	54.38	74.00	19.62
4824	30.23	AV	H	30.64	6.03	27.41	39.49	54.00	14.51
7236	31.81	PK	H	34.17	7.47	25.90	47.55	74.00	26.45
7236	18.96	AV	H	34.17	7.47	25.90	34.70	54.00	19.30
9648	29.87	PK	H	36.06	8.81	27.46	47.28	74.00	26.72
9648	17.02	AV	H	36.06	8.81	27.46	34.43	54.00	19.57
2845	37.64	PK	H	26.80	5.90	27.55	42.79	74.00	31.21
2845	28.39	AV	H	26.80	5.90	27.55	33.54	54.00	20.46
42.59	32.89	QP	V	12.57	0.84	21.42	24.88	40.00	15.12
Middle Channel: 2437 MHz									
2437	66.23	PK	H	25.74	4.41	0.00	96.38	N/A	N/A
2437	58.48	AV	H	25.74	4.41	0.00	88.63	N/A	N/A
2437	62.31	PK	V	25.74	4.41	0.00	92.46	N/A	N/A
2437	51.96	AV	V	25.74	4.41	0.00	82.11	N/A	N/A
4874	37.96	PK	H	30.77	6.09	27.42	47.40	74.00	26.60
4874	21.86	AV	H	30.77	6.09	27.42	31.30	54.00	22.70
7311	31.54	PK	H	34.35	7.51	25.88	47.52	74.00	26.48
7311	19.28	AV	H	34.35	7.51	25.88	35.26	54.00	18.74
9748	30.03	PK	H	36.30	8.83	27.24	47.92	74.00	26.08
9748	17.36	AV	H	36.30	8.83	27.24	35.25	54.00	18.75
2845	37.10	PK	H	26.80	5.90	27.55	42.25	74.00	31.75
2845	25.85	AV	H	26.80	5.90	27.55	31.00	54.00	23.00
7015	31.30	PK	H	33.64	7.35	26.22	46.07	74.00	27.93
7015	19.72	AV	H	33.64	7.35	26.22	34.49	54.00	19.51
43.62	32.73	QP	V	11.88	0.87	21.42	24.06	40.00	15.94
High Channel: 2462 MHz									
2462	67.95	PK	H	25.80	4.43	0.00	98.18	N/A	N/A
2462	59.48	AV	H	25.80	4.43	0.00	89.71	N/A	N/A
2462	63.33	PK	V	25.80	4.43	0.00	93.56	N/A	N/A
2462	53.88	AV	V	25.80	4.43	0.00	84.11	N/A	N/A
2483.5	32.55	PK	H	25.86	4.49	0.00	62.90	74.00	11.10
2483.5	18.57	AV	H	25.86	4.49	0.00	48.92	54.00	5.08
4924	45.10	PK	H	30.90	5.97	27.43	54.54	74.00	19.46
4924	29.88	AV	H	30.90	5.97	27.43	39.32	54.00	14.68
7386	34.93	PK	H	34.53	7.55	25.86	51.15	74.00	22.85
7386	21.03	AV	H	34.53	7.55	25.86	37.25	54.00	16.75
9848	30.03	PK	H	36.54	8.85	26.94	48.48	74.00	25.52
9848	17.36	AV	H	36.54	8.85	26.94	35.81	54.00	18.19
2845	37.10	PK	H	26.80	5.90	27.55	42.25	74.00	31.75
2845	25.85	AV	H	26.80	5.90	27.55	31.00	54.00	23.00
41.67	33.26	QP	V	13.21	0.83	21.42	25.88	40.00	14.12

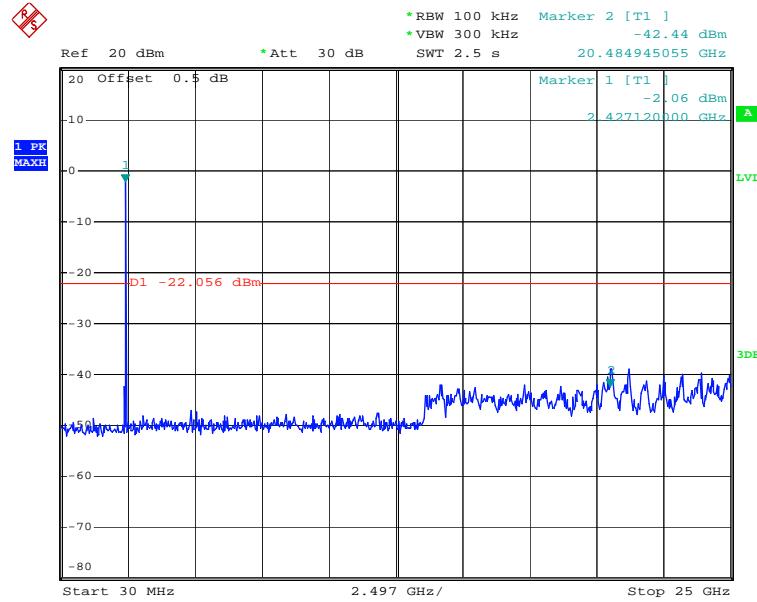
802.11 n40 Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	FCC 15.247	
	Reading (dB μ V)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB/m)				Limit (dB μ V/m)	Margin (dB)
Low Channel: 2422 MHz									
2422	65.60	PK	H	25.70	4.41	0.00	95.71	N/A	N/A
2422	55.21	AV	H	25.70	4.41	0.00	85.32	N/A	N/A
2422	60.35	PK	V	25.70	4.41	0.00	90.46	N/A	N/A
2422	50.60	AV	V	25.70	4.41	0.00	80.71	N/A	N/A
2390	33.05	PK	H	25.61	4.39	0.00	63.05	74.00	10.95
2390	21.30	AV	H	25.61	4.39	0.00	51.30	54.00	2.70*
4844	37.63	PK	H	30.69	6.08	27.42	46.98	74.00	27.02
4844	23.10	AV	H	30.69	6.08	27.42	32.45	54.00	21.55
7266	30.17	PK	H	34.24	7.48	25.89	46.00	74.00	28.00
7266	19.36	AV	H	34.24	7.48	25.89	35.19	54.00	18.81
9688	29.23	PK	H	36.15	8.82	27.37	46.83	74.00	27.17
9688	17.03	AV	H	36.15	8.82	27.37	34.63	54.00	19.37
2845	34.26	PK	H	26.80	5.90	27.55	39.41	74.00	34.59
2845	22.46	AV	H	26.80	5.90	27.55	27.61	54.00	26.39
42.59	33.06	QP	V	12.57	0.84	21.42	25.05	40.00	14.95
Middle Channel: 2437 MHz									
2437	65.35	PK	H	25.74	4.41	0.00	95.50	N/A	N/A
2437	56.20	AV	H	25.74	4.41	0.00	86.35	N/A	N/A
2437	62.54	PK	V	25.74	4.41	0.00	92.69	N/A	N/A
2437	52.14	AV	V	25.74	4.41	0.00	82.29	N/A	N/A
4874	27.35	PK	H	30.77	6.09	27.42	36.79	74.00	37.21
4874	19.65	AV	H	30.77	6.09	27.42	29.09	54.00	24.91
7311	30.17	PK	H	34.35	7.51	25.88	46.15	74.00	27.85
7311	19.36	AV	H	34.35	7.51	25.88	35.34	54.00	18.66
9748	29.23	PK	H	36.30	8.83	27.24	47.12	74.00	26.88
9748	17.03	AV	H	36.30	8.83	27.24	34.92	54.00	19.08
2845	34.26	PK	H	26.80	5.90	27.55	39.41	74.00	34.59
2845	22.46	AV	H	26.80	5.90	27.55	27.61	54.00	26.39
7015	30.80	PK	H	33.64	7.35	26.22	45.57	74.00	28.43
7015	19.20	AV	H	33.64	7.35	26.22	33.97	54.00	20.03
43.62	32.81	QP	V	11.88	0.87	21.42	24.14	40.00	15.86
High Channel: 2452 MHz									
2452	65.01	PK	H	25.78	4.41	0.00	95.20	N/A	N/A
2452	56.45	AV	H	25.78	4.41	0.00	86.64	N/A	N/A
2452	61.22	PK	V	25.78	4.41	0.00	91.41	N/A	N/A
2452	52.60	AV	V	25.78	4.41	0.00	82.79	N/A	N/A
2483.5	25.64	PK	H	25.86	4.49	0.00	55.99	74.00	18.01
2483.5	13.98	AV	H	25.86	4.49	0.00	44.33	54.00	9.67
4904	34.89	PK	H	30.85	6.06	27.43	44.37	74.00	29.63
4904	22.13	AV	H	30.85	6.06	27.43	31.61	54.00	22.39
7356	30.17	PK	H	34.45	7.53	25.87	46.28	74.00	27.72
7356	19.36	AV	H	34.45	7.53	25.87	35.47	54.00	18.53
9808	29.23	PK	H	36.44	8.84	27.09	47.42	74.00	26.58
9808	17.03	AV	H	36.44	8.84	27.09	35.22	54.00	18.78
2845	34.26	PK	H	26.80	5.90	27.55	39.41	74.00	34.59
2845	22.46	AV	H	26.80	5.90	27.55	27.61	54.00	26.39
41.67	32.86	QP	V	13.21	0.83	21.42	25.48	40.00	14.52

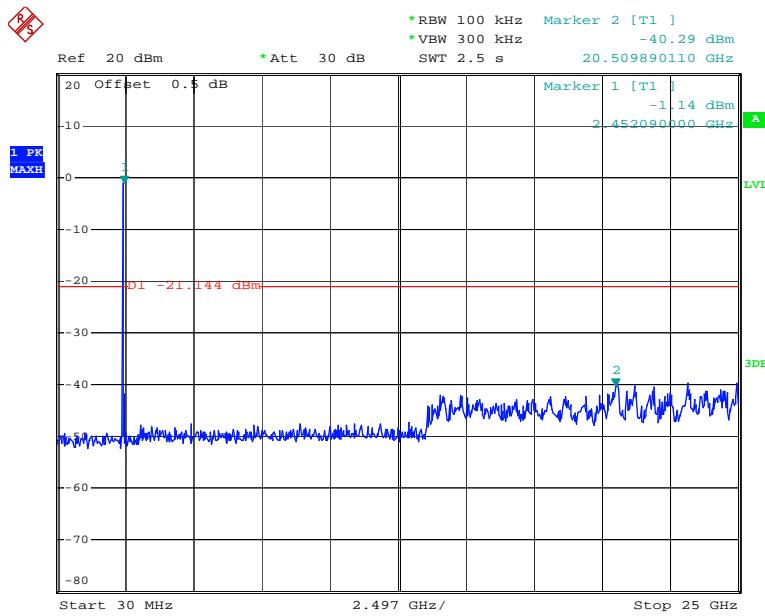
*Within measurement uncertainty!

Conducted Spurious Emissions at Antenna Port**802.11b Low Channel**

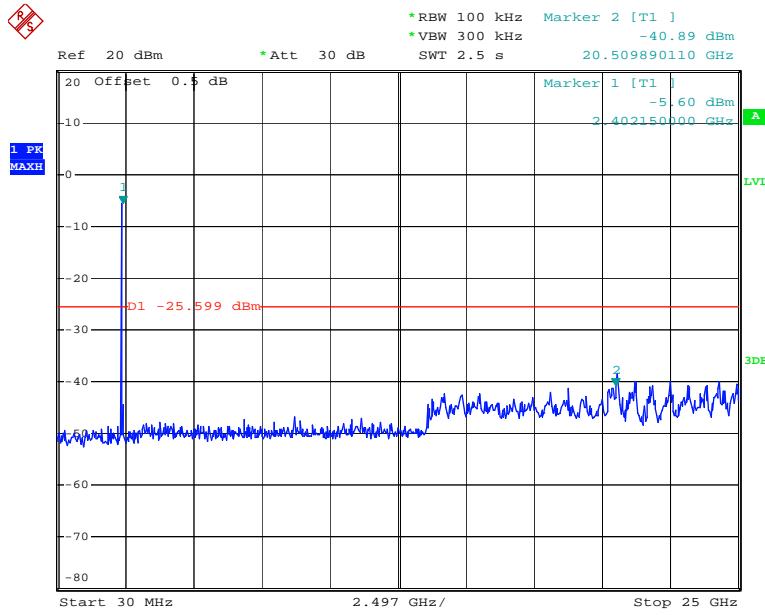
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802.11b Middle Channel

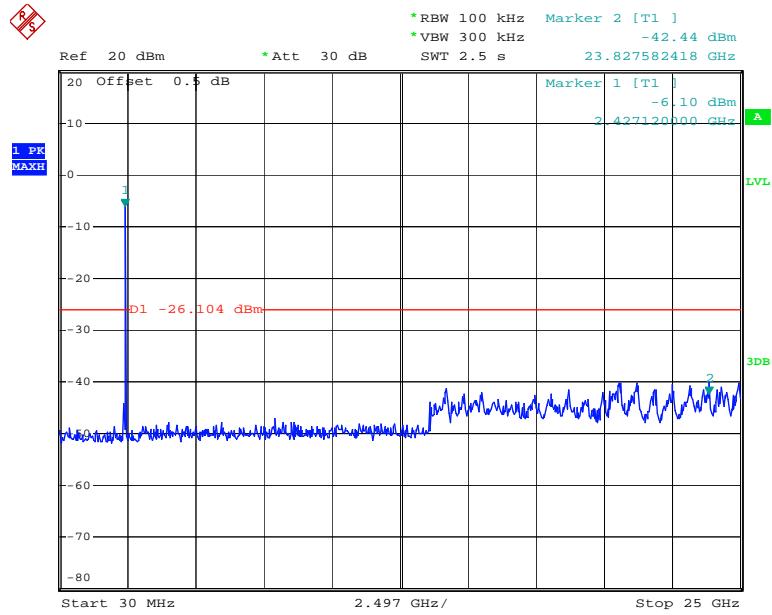
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802.11b High Channel

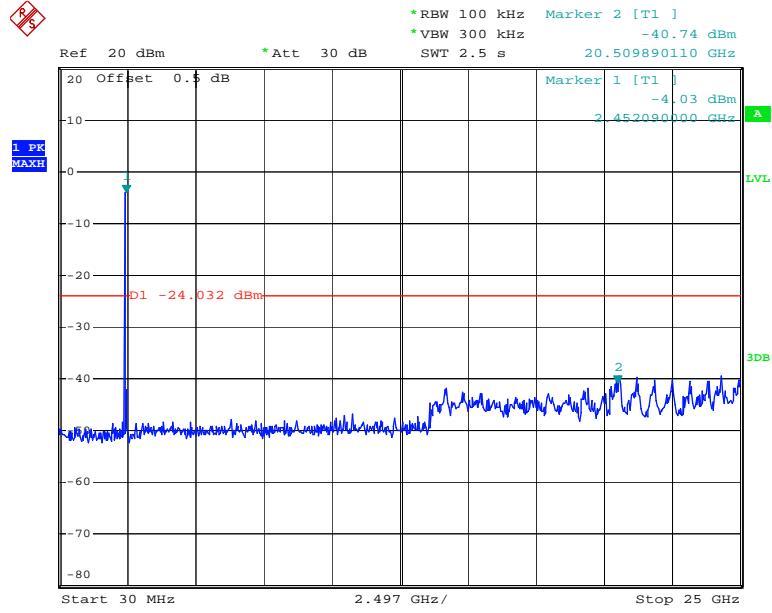
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802.11g Low Channel

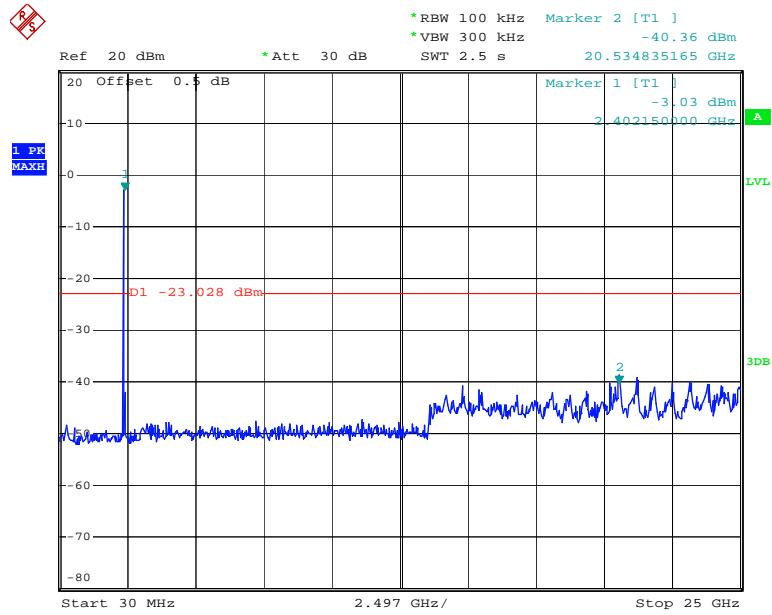
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802.11g Middle Channel

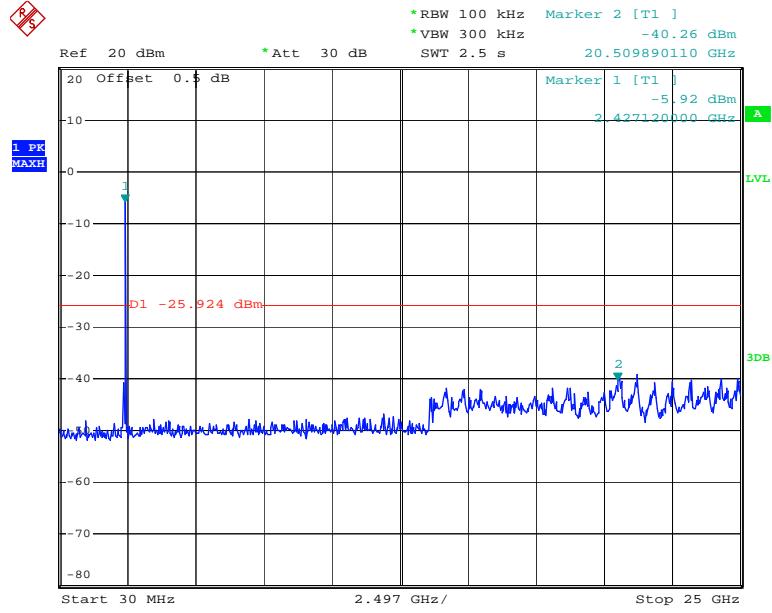
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802.11g High Channel

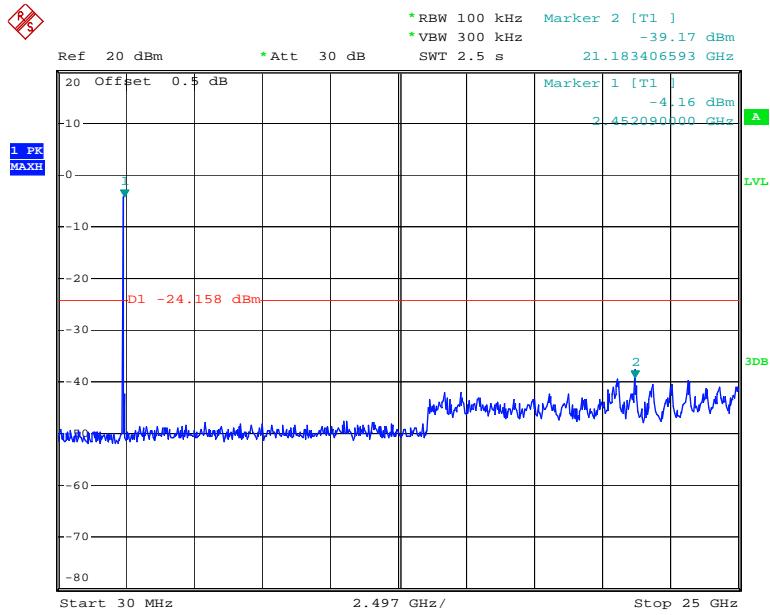
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802.11n20 Low Channel

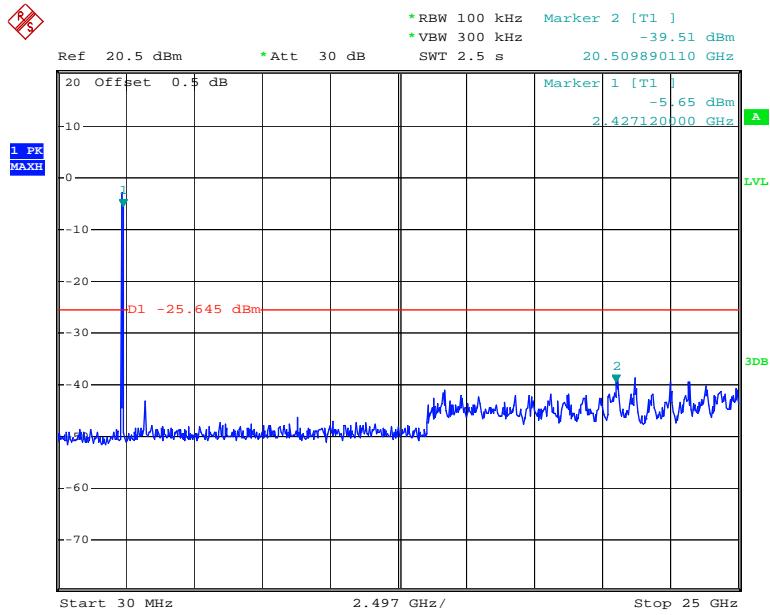
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802.11n20 Middle Channel

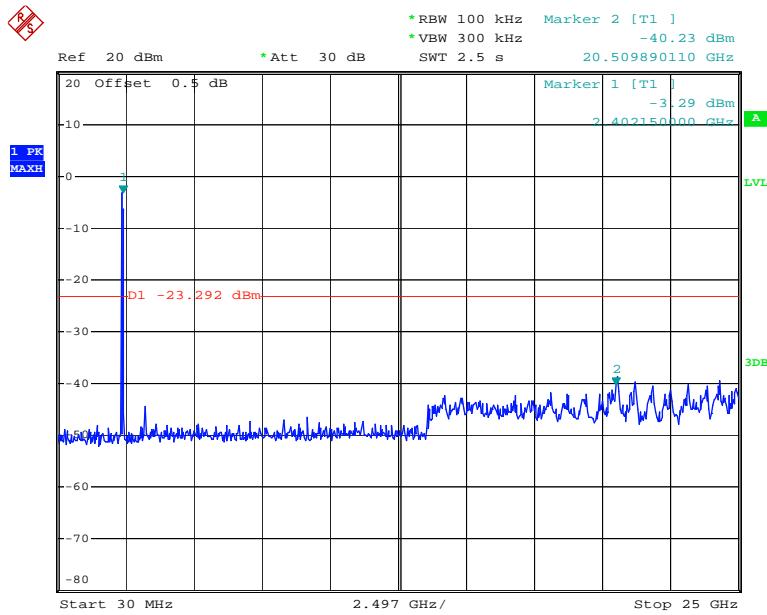
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802.11n20 High Channel

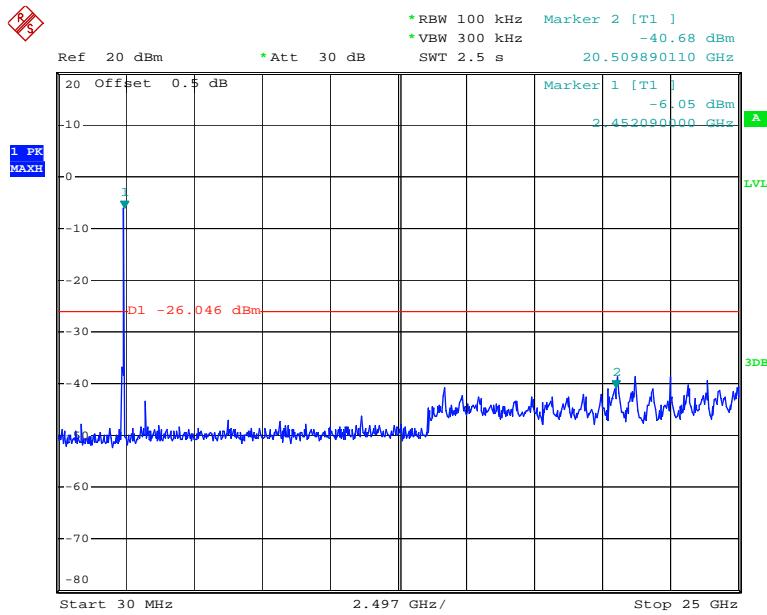
Date: 5.JUL.2014 19:56:21

802.11n40 Low Channel

Date: 5.JUL.2014 20:35:25

802.11n40 Middle Channel

Date: 5.JUL.2014 20:40:16

802.11n40 High Channel

Date: 5.JUL.2014 20:42:35

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
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-08

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

Test Data

Environmental Conditions

Temperature:	29.9 °C
Relative Humidity:	65 %
ATM Pressure:	99.8 kPa

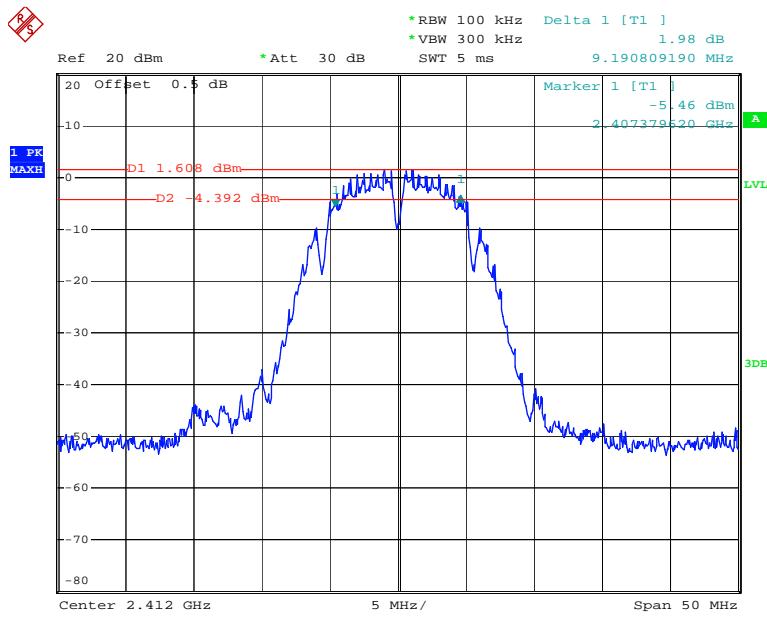
* The testing was performed by Allen Qiao on 2014-07-05.

Test Result: Pass.

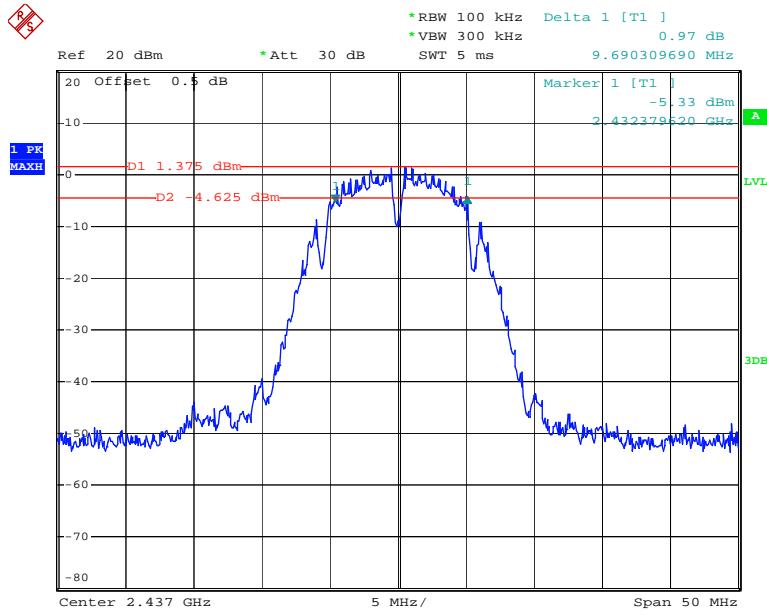
Please refer to the following tables and plots.

Test Mode: Transmitting

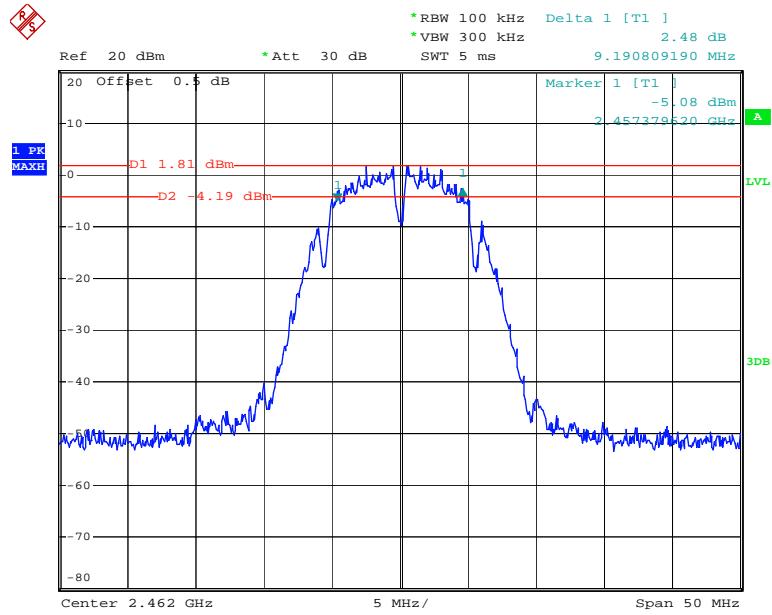
Test Mode	Channel	Frequency	6 dB Bandwidth	Limit
		(MHz)	(MHz)	(kHz)
802.11b	Low	2412	9.19	>500
	Middle	2437	9.69	>500
	High	2462	9.19	>500
802.11g	Low	2412	16.53	>500
	Middle	2437	16.43	>500
	High	2462	16.48	>500
802.11n20	Low	2412	17.73	>500
	Middle	2437	17.68	>500
	High	2462	17.38	>500
802.11n40	Low	2422	36.06	>500
	Middle	2437	36.06	>500
	High	2452	36.46	>500

802.11b Low Channel

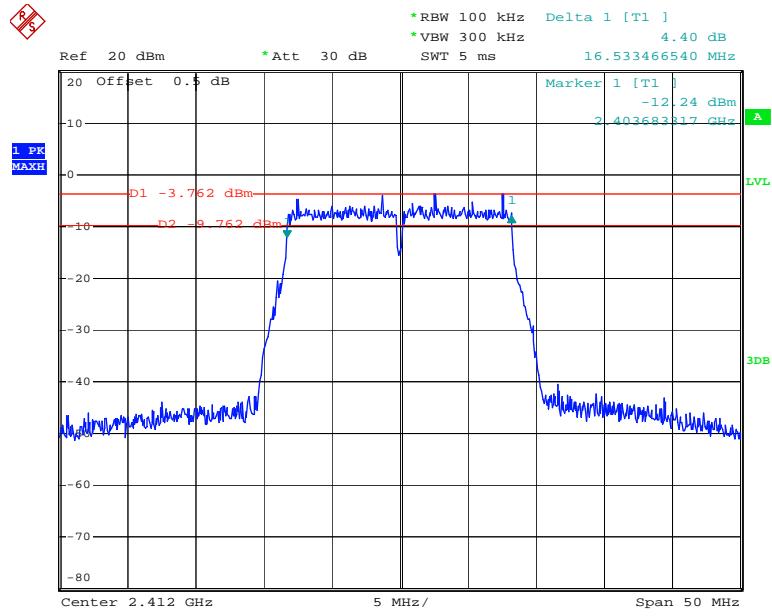
Date: 5.JUL.2014 19:35:27

802.11b Middle Channel

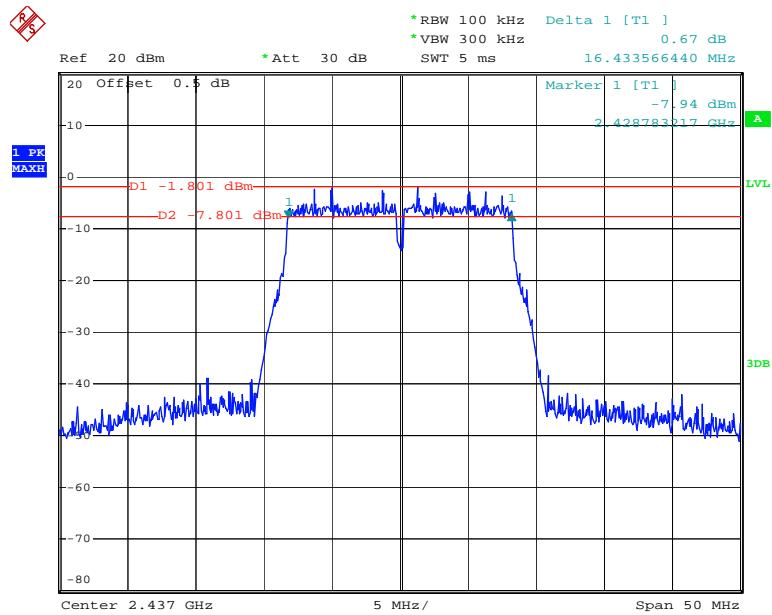
Date: 5.JUL.2014 19:39:50

802.11b High Channel

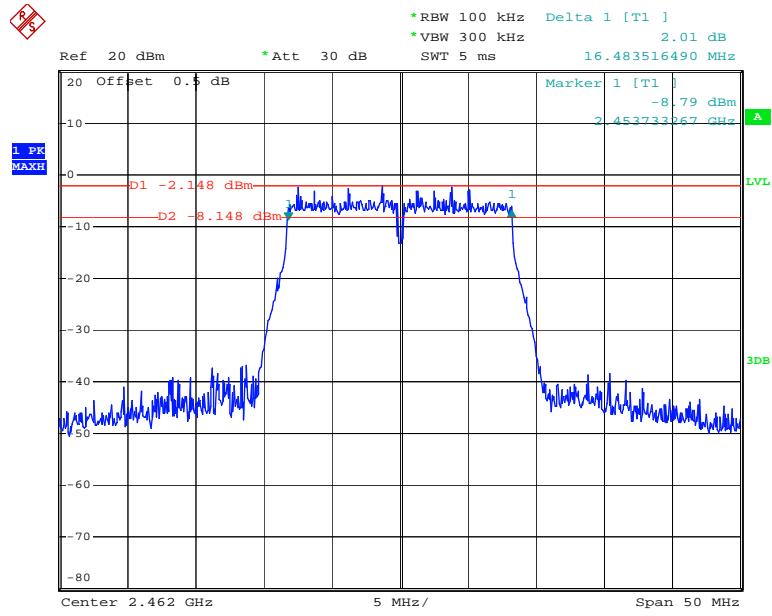
Date: 5.JUL.2014 19:41:32

802.11g Low Channel

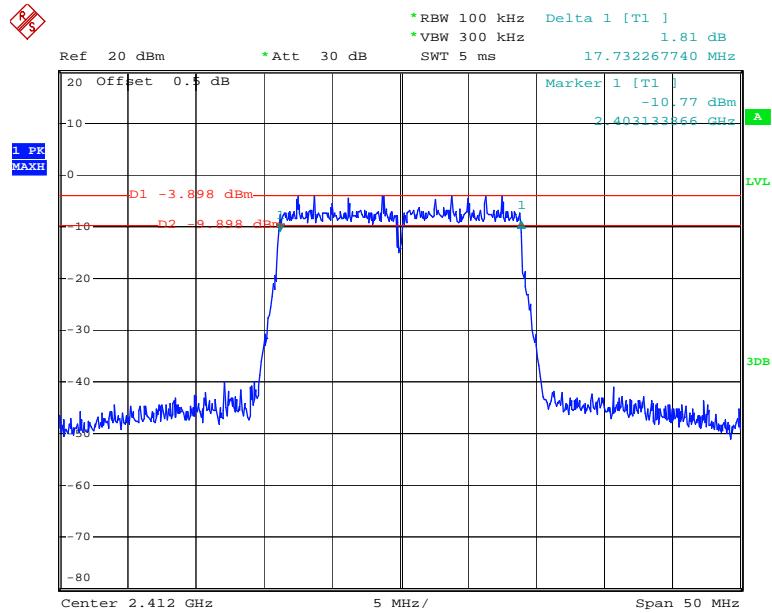
Date: 5.JUL.2014 19:48:55

802.11g Middle Channel

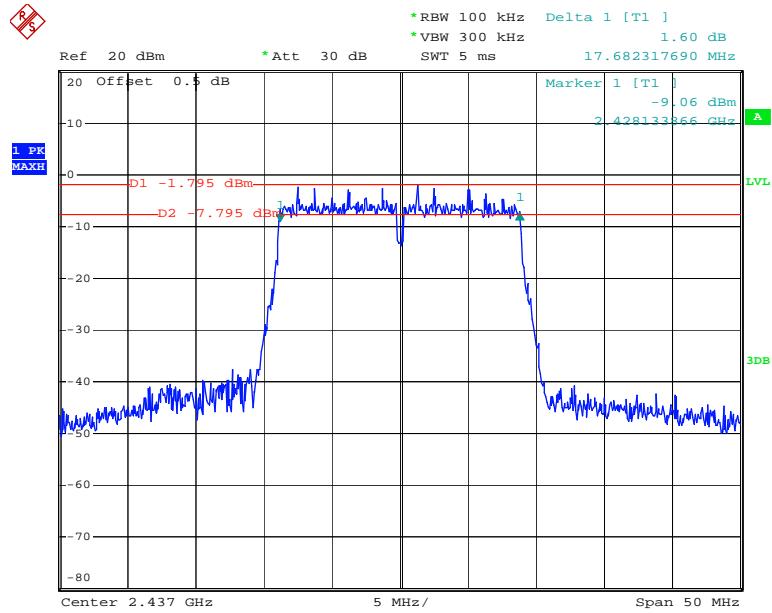
Date: 5.JUL.2014 19:46:34

802.11g High Channel

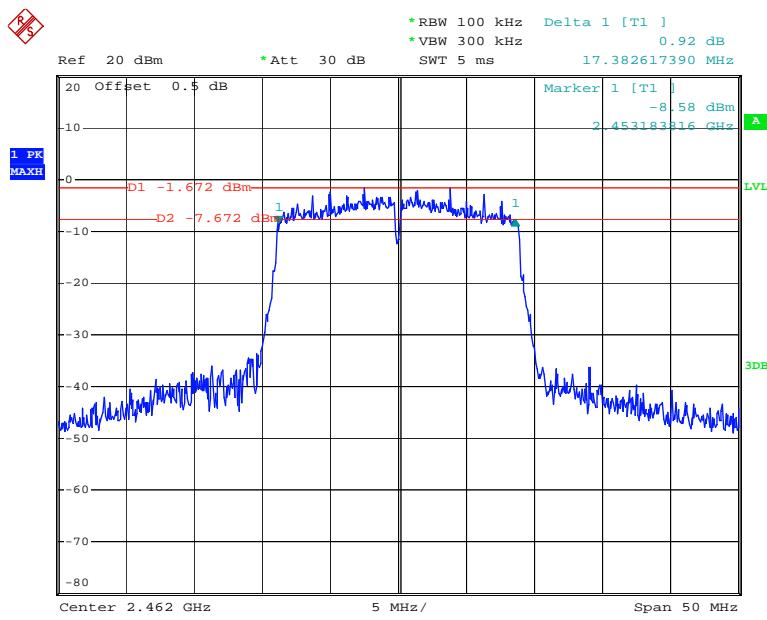
Date: 5.JUL.2014 19:45:13

802.11n20 Low Channel

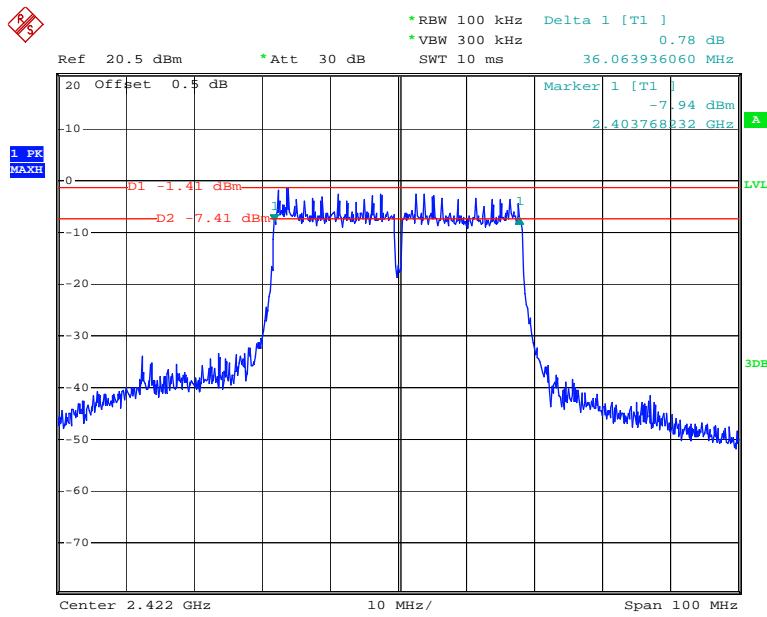
Date: 5.JUL.2014 19:51:20

802.11n20 Middle Channel

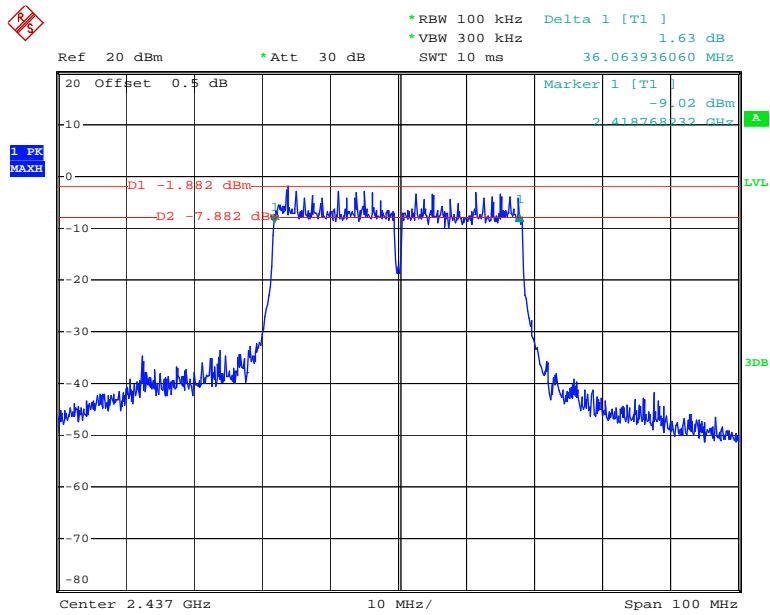
Date: 5.JUL.2014 19:53:44

802.11n20 High Channel

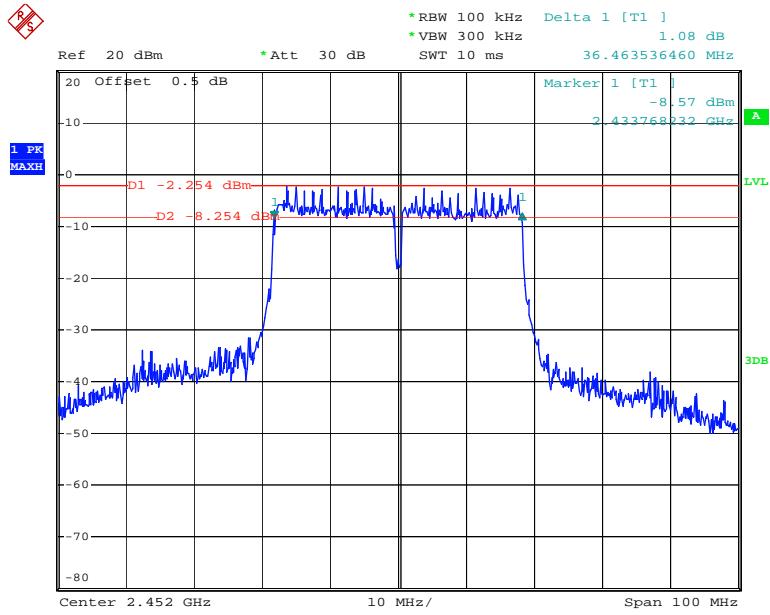
Date: 5.JUL.2014 19:55:10

802.11n40 Low Channel

Date: 5.JUL.2014 20:34:09

802.11n40 Middle Channel

Date: 5.JUL.2014 20:38:48

802.11n40 High Channel

Date: 5.JUL.2014 20:41:23

FCC §15.247(b) (3) - CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §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

1. According to KDB 558074 D01 DTS Meas Guidance v03r02, 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 a power meter.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	P-Series Power Meter	N1912A	MY5000448	2013-12-12	2014-12-12
Agilent	Wideband Power Sensor	N1921A	MY54210016	2013-12-12	2014-12-12

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

Test Data

Environmental Conditions

Temperature:	29.9 °C
Relative Humidity:	65 %
ATM Pressure:	99.8 kPa

* The testing was performed by Allen Qiao on 2014-07-05.

Test Mode: Transmitting

Test Mode	Channel	Frequency	Peak Conducted Output Power	Limit	Result
		(MHz)	(dBm)		
802.11b	Low	2412	15.62	30	PASS
	Middle	2437	15.49	30	PASS
	High	2462	15.86	30	PASS
802.11g	Low	2412	19.82	30	PASS
	Middle	2437	19.47	30	PASS
	High	2462	19.65	30	PASS
802.11n20	Low	2412	19.53	30	PASS
	Middle	2437	19.48	30	PASS
	High	2462	19.54	30	PASS
802.11n40	Low	2422	23.36	30	PASS
	Middle	2437	23.32	30	PASS
	High	2452	23.59	30	PASS

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 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
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-08

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

Test Data

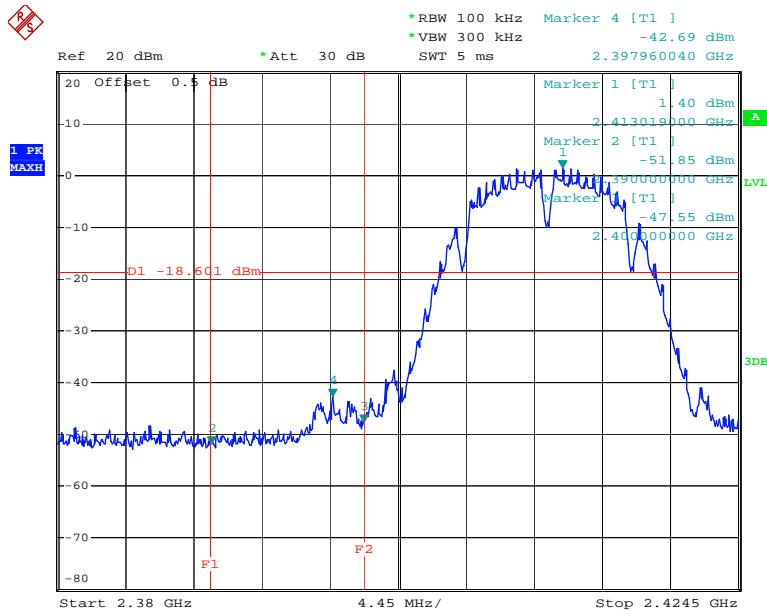
Environmental Conditions

Temperature:	29.9 °C
Relative Humidity:	65 %
ATM Pressure:	99.8 kPa

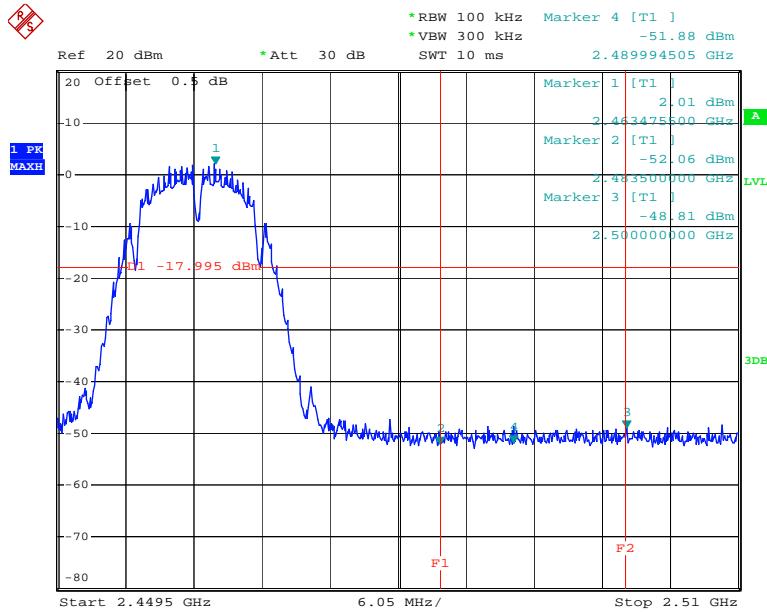
* The testing was performed by Allen Qiao on 2014-07-05.

Test Result: Compliance

Please refer to following table and plots.

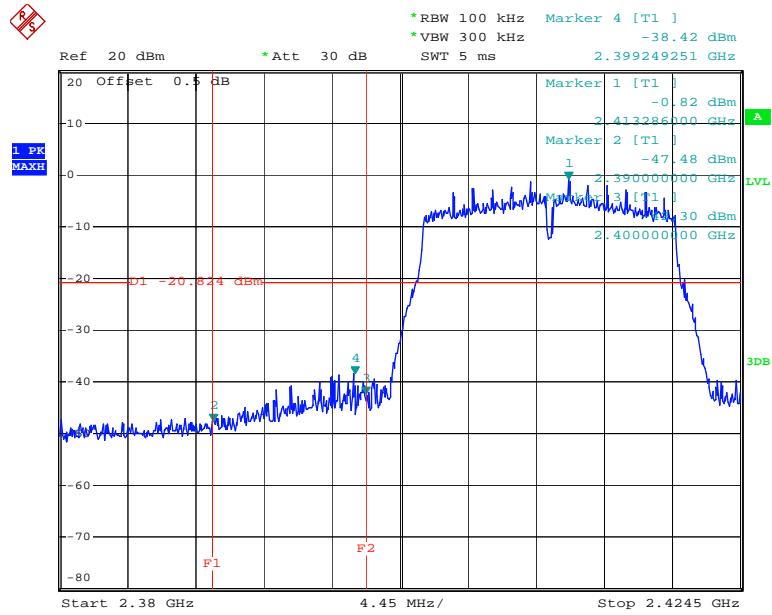
802.11b: Band Edge, Left Side

Date: 5.JUL.2014 19:36:22

802.11b: Band Edge, Right Side

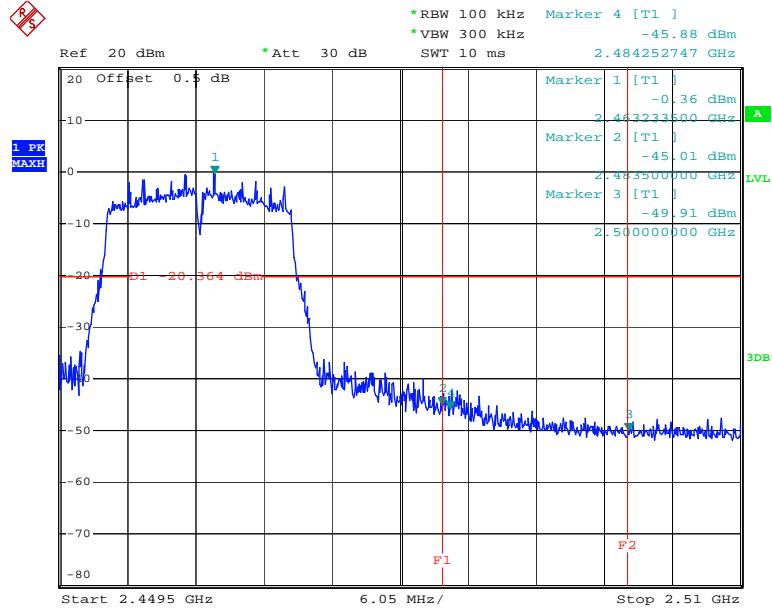
Date: 5.JUL.2014 19:42:31

802.11g: Band Edge, Left Side



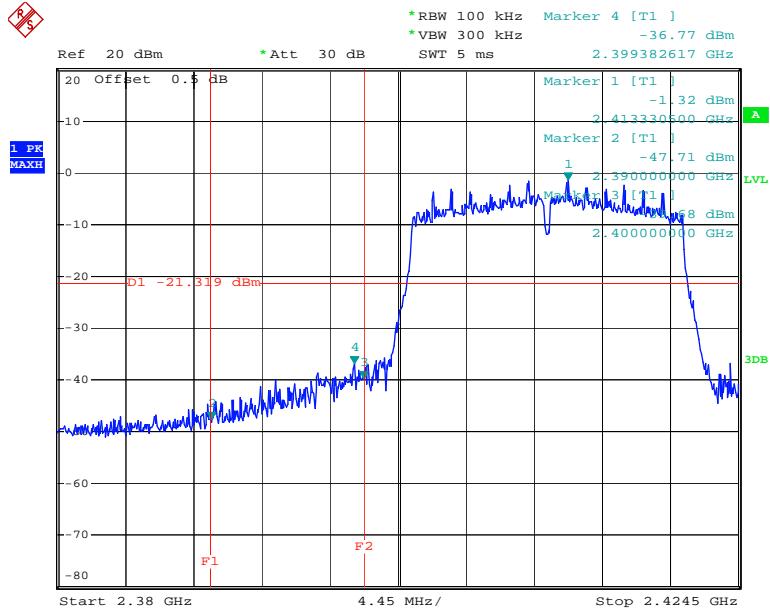
Date: 5.JUL.2014 19:50:45

802.11g: Band Edge, Right Side



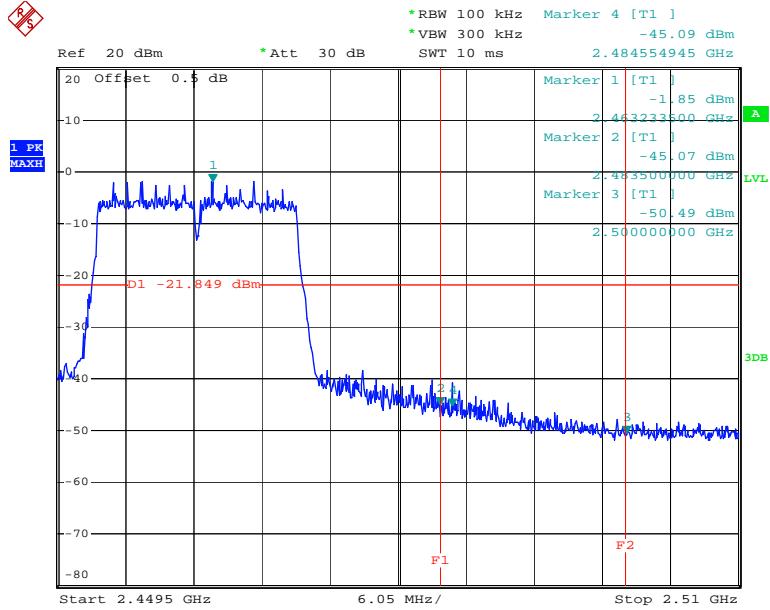
Date: 5.JUL.2014 19:44:22

802.11n20 Band Edge, Left Side

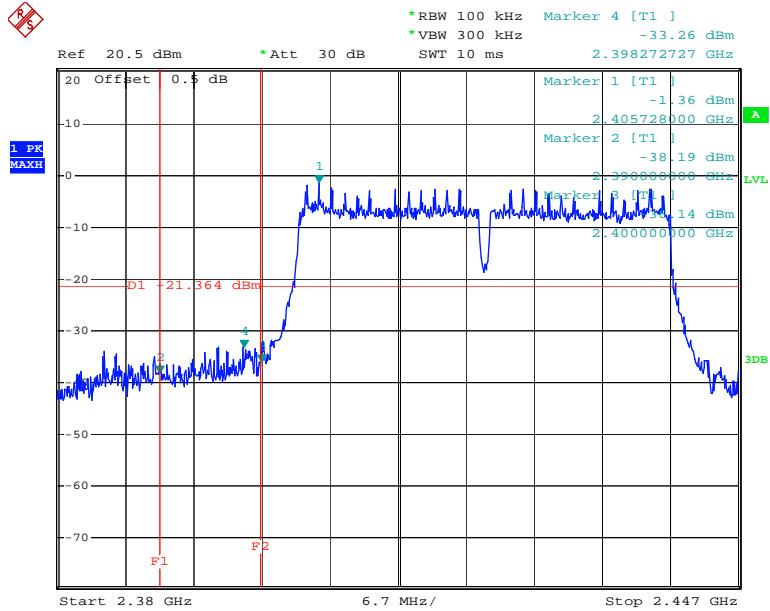


Date: 5.JUL.2014 19:52:42

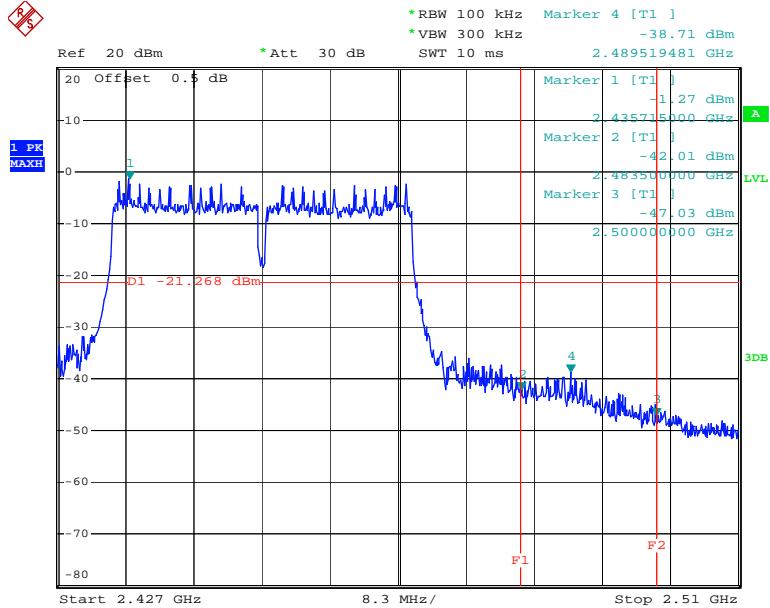
802.11n20 Band Edge, Right Side



Date: 5.JUL.2014 19:56:34

802.11n40 Band Edge, Left Side

Date: 5.JUL.2014 20:35:37

802.11n40 Band Edge, Right Side

Date: 5.JUL.2014 20:42:47

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. Set the RBW = 3 kHz, VBW = 10 kHz, Set the span to 1.5 times the DTS bandwidth.
4. Use the peak marker function to determine the maximum amplitude level.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-08

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

Test Data

Environmental Conditions

Temperature:	29.9 °C
Relative Humidity:	65 %
ATM Pressure:	99.8 kPa

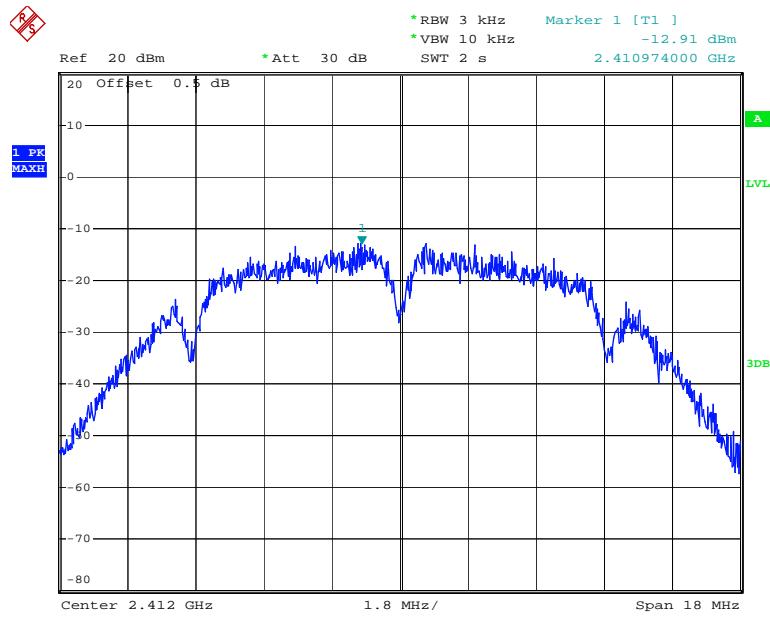
* The testing was performed by Allen Qiao on 2014-07-05.

Test Mode: Transmitting

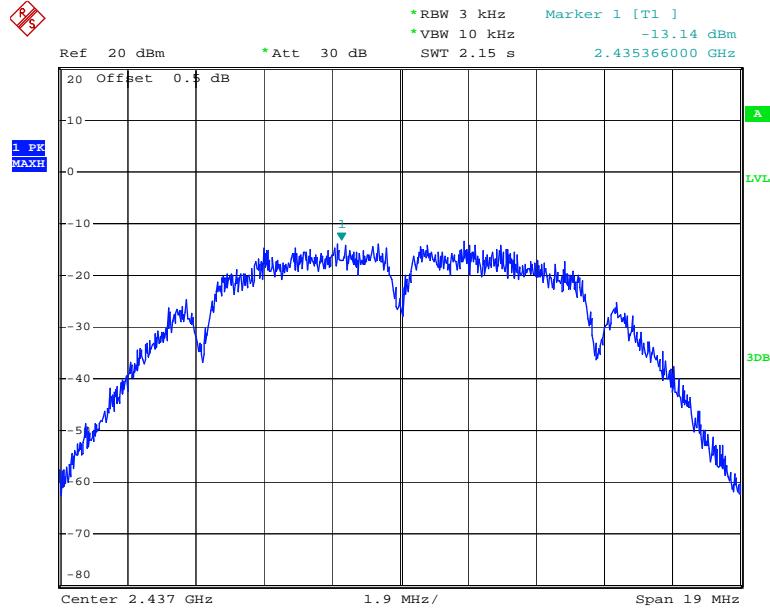
Test Result: Pass

Test Mode	Channel	PSD	Limit	Result
		(dBm/3kHz)	(dBm/3kHz)	
802.11b	Low	-12.91	8	Pass
	Middle	-13.14	8	Pass
	High	-12.76	8	Pass
802.11g	Low	-16.14	8	Pass
	Middle	-16.82	8	Pass
	High	-15.92	8	Pass
802.11n20	Low	-16.32	8	Pass
	Middle	-16.46	8	Pass
	High	-16.35	8	Pass
802.11n40	Low	-18.51	8	Pass
	Middle	-18.71	8	Pass
	High	-18.06	8	Pass

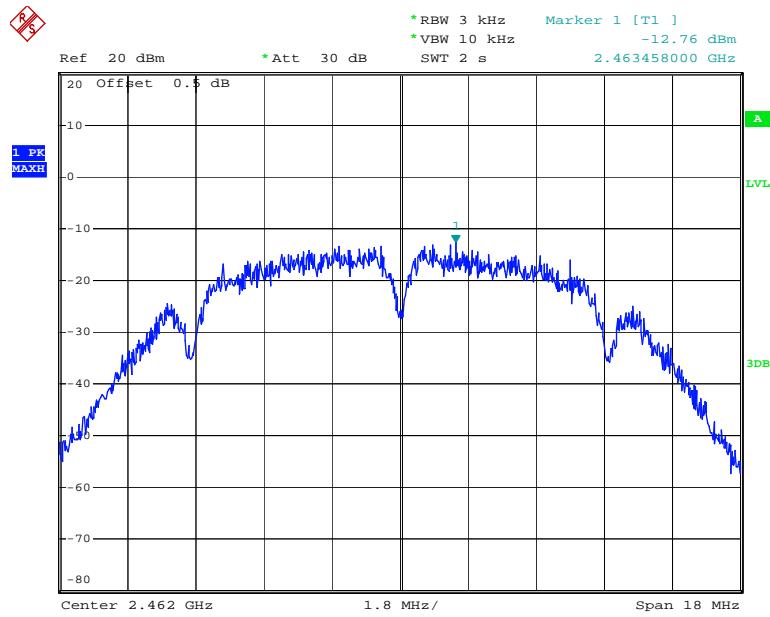
Please refer to the following plots

Power Spectral Density, 802.11b Low Channel

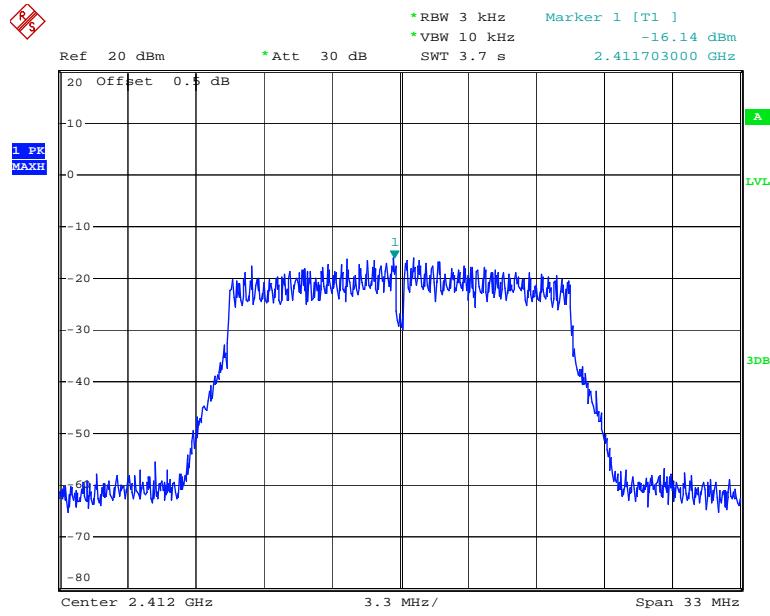
Date: 5.JUL.2014 19:35:57

Power Spectral Density, 802.11b Middle Channel

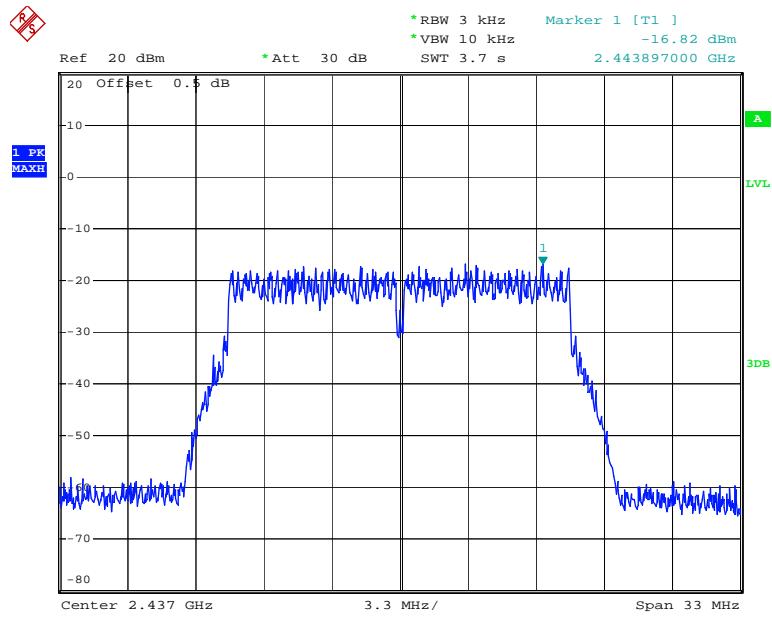
Date: 5.JUL.2014 19:40:27

Power Spectral Density, 802.11b High Channel

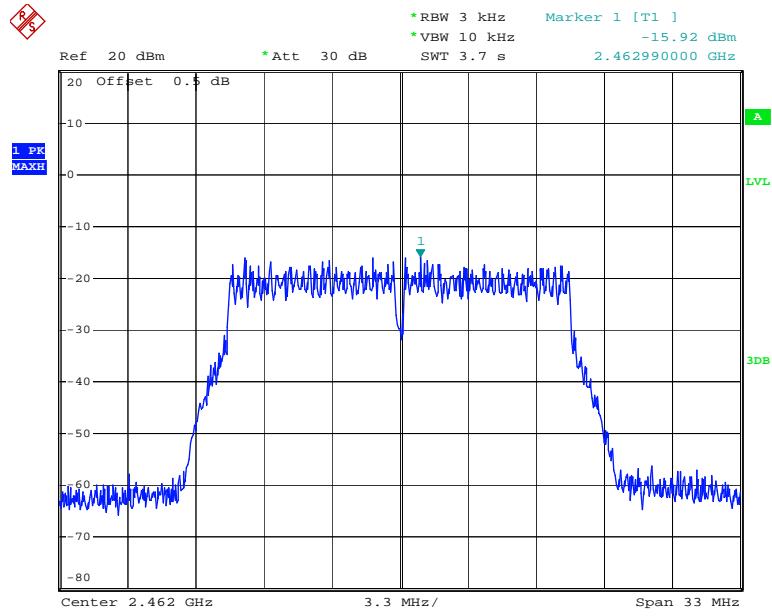
Date: 5.JUL.2014 19:42:05

Power Spectral Density, 802.11g Low Channel

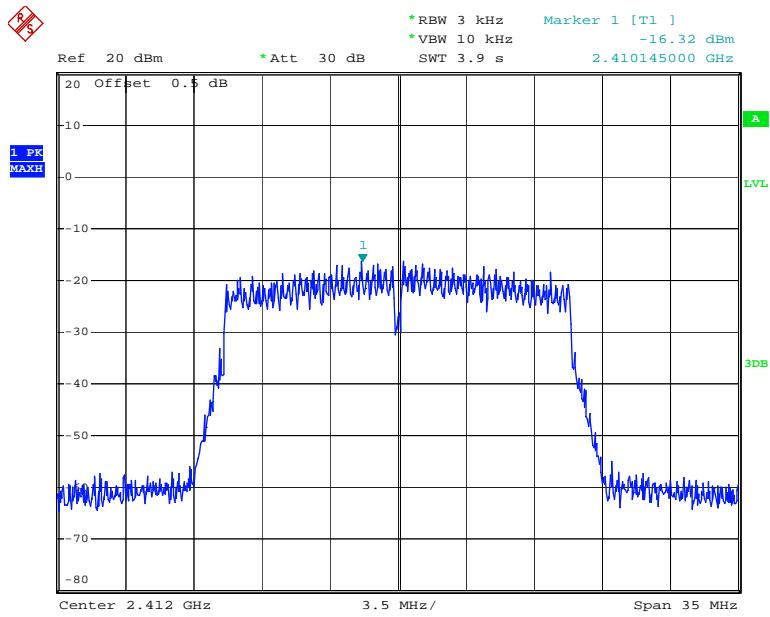
Date: 5.JUL.2014 19:50:19

Power Spectral Density, 802.11g Middle Channel

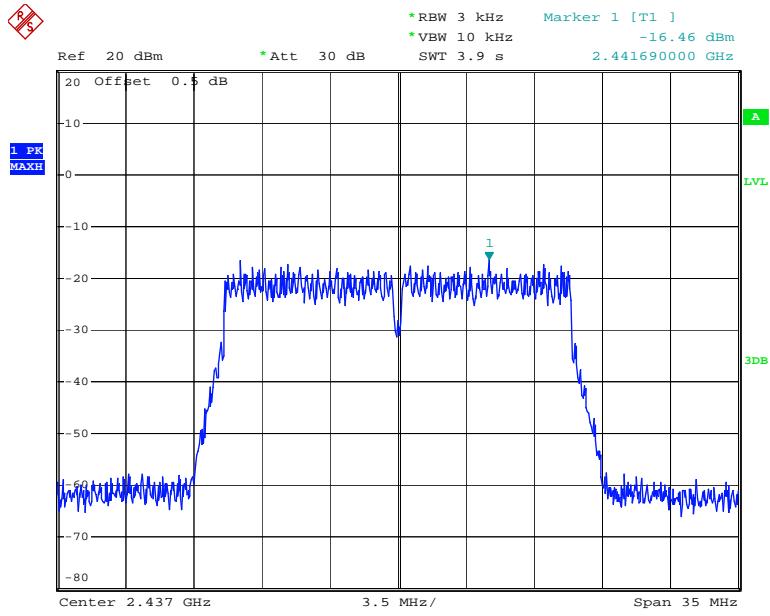
Date: 5.JUL.2014 19:47:21

Power Spectral Density, 802.11g High Channel

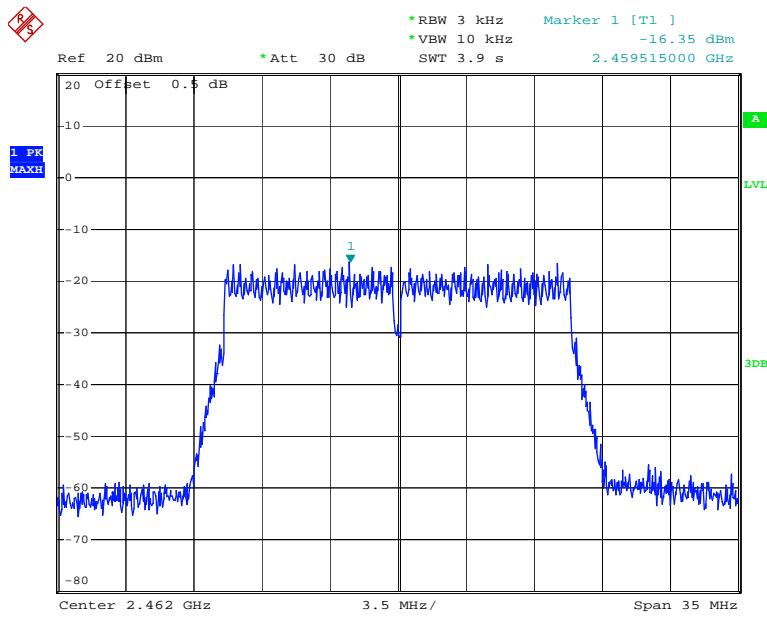
Date: 5.JUL.2014 19:46:02

Power Spectral Density, 802.11n20 Low Channel

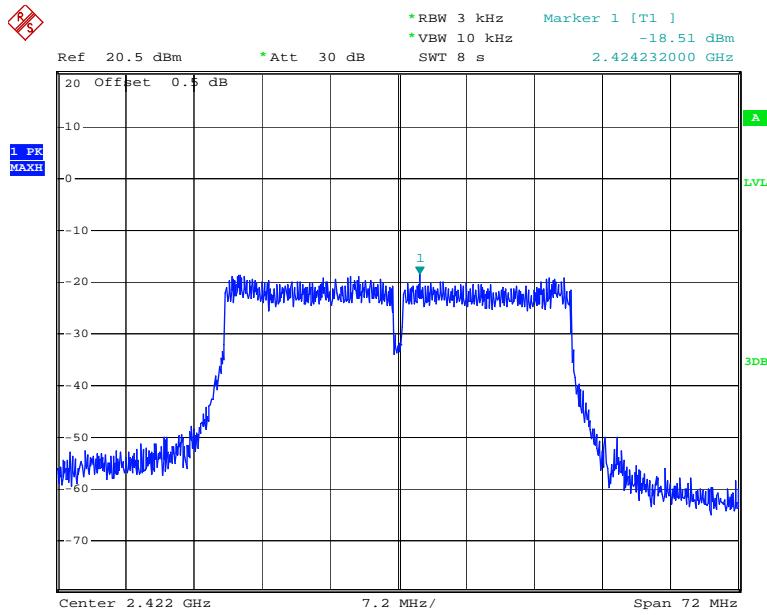
Date: 5.JUL.2014 19:52:17

Power Spectral Density, 802.11n20 Middle Channel

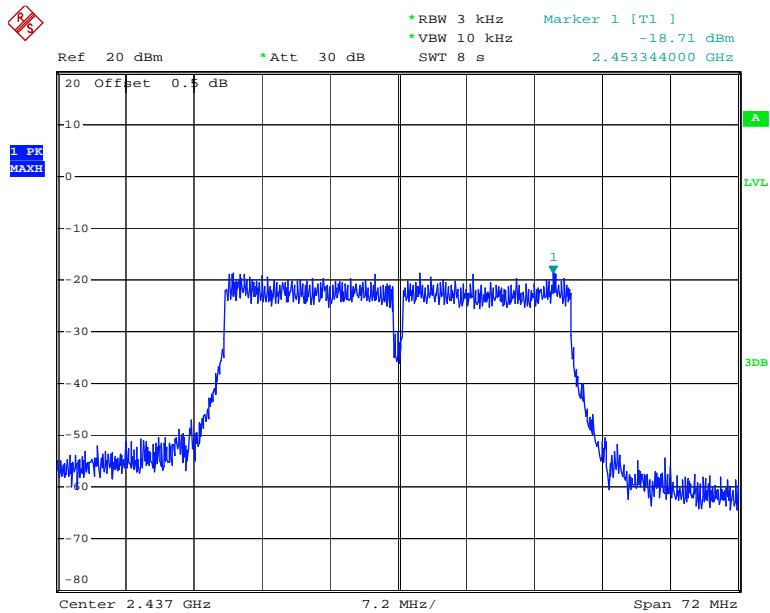
Date: 5.JUL.2014 19:54:26

Power Spectral Density, 802.11n20 High Channel

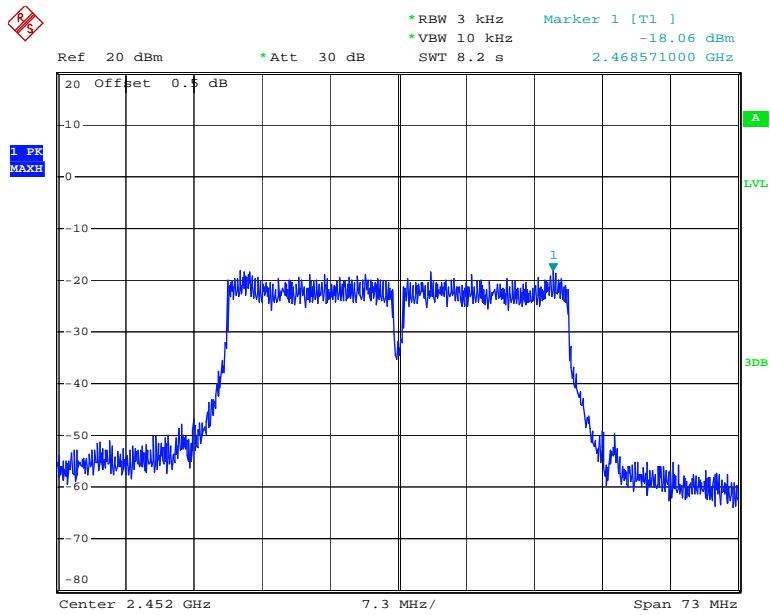
Date: 5.JUL.2014 19:56:08

Power Spectral Density, 802.11n40 Low Channel

Date: 5.JUL.2014 20:35:11

Power Spectral Density, 802.11n40 Middle Channel

Date: 5.JUL.2014 20:40:03

Power Spectral Density, 802.11n40 High Channel

Date: 5.JUL.2014 20:42:20

DECLARATION OF SIMILARITY



Hangzhou Gubei Electronics Technology Co.,Ltd

Add: Room106, No.1 Building, No.611 Jianghong Road, Binjiang, Hangzhou, Zhejiang, China

Tel: 0571-86691817

Fax: 0571-86691817

DECLARATION OF SIMILARITY

Date : 2014-05-05

To:

Bay Area Compliance Laboratories Corp. (Dongguan)
No.69 Pulong Village Puxinhu Industry Zone Tangxia,
Dongguan, China
<http://www.baclcorp.com>

Dear Sir or Madam:

We, Hangzhou Gubei Electronics Technology Co., Ltd, hereby declare that product: E-Remote, model: RM1, RM 3, RM Home and RM2 is electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics as model name: RM Pro which was tested by BACL . They are different in model name.

Please contact me should there be need for any additional clarification or information.

Best Regards,

Signature:



Nancy .Shao

Title:Manager

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