

FCC PART 15.247

TEST REPORT

For

Coby Communications Ltd.

Unit C-E, 8/F, PO Shau Centre, 115 How Ming Street, Kowloon, Hong Kong

FCC ID: S7IMID7036-7034

Report Type: Original Report	Product Type: Mobile Internet Device
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* This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Coby Communications Ltd.*'s product, model number: MID7036, MID7034(FCC ID: S7IMID7036-7034) or ("EUT") in this report is a Mobile Internet Device, which was measured approximately:19.0 cm (L) x11.2cm (W) x1.2cm (H), rated input voltage: DC 5V from adapter.

Adapter Information:FLYPOWER
MODEL: PS14K0502000J5
INPUT: 100-240V,50/60Hz,0.35A
OUTPUT: 5.0V,2000mA

Note: model MID7036 and MID7034 are electrically identical, the only difference is the touch panel: MID7034 is resistive touch panel; MID7036 is capacitive touch panel. We selected MID7036 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: 120522003 (Assigned by BACL, Dongguan). The EUT was received on 2012-05-25.*

Objective

This report is prepared on behalf of *Coby Communications 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 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)

No related submittal(s).

Test Methodology

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

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

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (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 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 February 02, 2012. 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.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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



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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

For 802.11n40 mode, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422	6	2447
2	2427	7	2452
3	2432	/	/
4	2437	/	/
5	2442	/	/

EUT was tested with Channel 1, 4 and 7.

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 data rates bandwidths, and modulations.

EUT Exercise Software

The test was performed under “Adb.exe” which was provided by the manufacturer.

Equipment Modifications

No modification was made to the EUT tested.

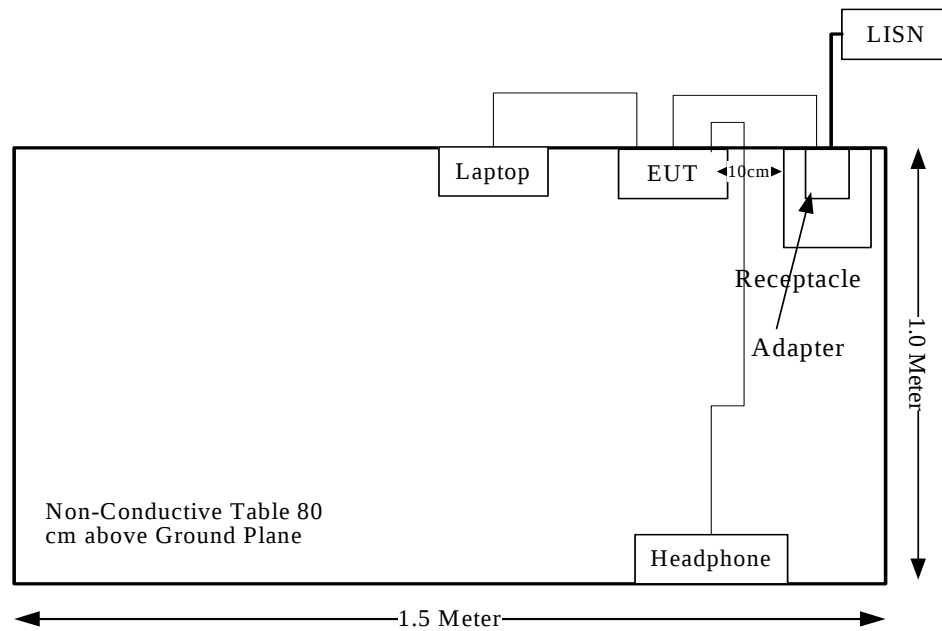
Support Equipment

Manufacturer	Description	Model	Serial Number
DELL	Laptop	PP11L	N/A
Manufacturer	Earphone	N/A	N/A

External I/O Cable

Cable Description	Length (m)	From Port	To
Shielded Detachable USB Cable	1.2	USB Port of Laptop	EUT
Unshielded Audio Cable	1.0	EUT	Earphone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b)(1), §2.1093	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 (b) (1) & §2.1093- RF EXPOSURE

Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliance, please refer to the SAR report: R1DG120522004-20

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 an Internal Antenna soldered on the print circuit board, which complied with 15.203, the maximum gain is 0.84dBi, please refer to the internal photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

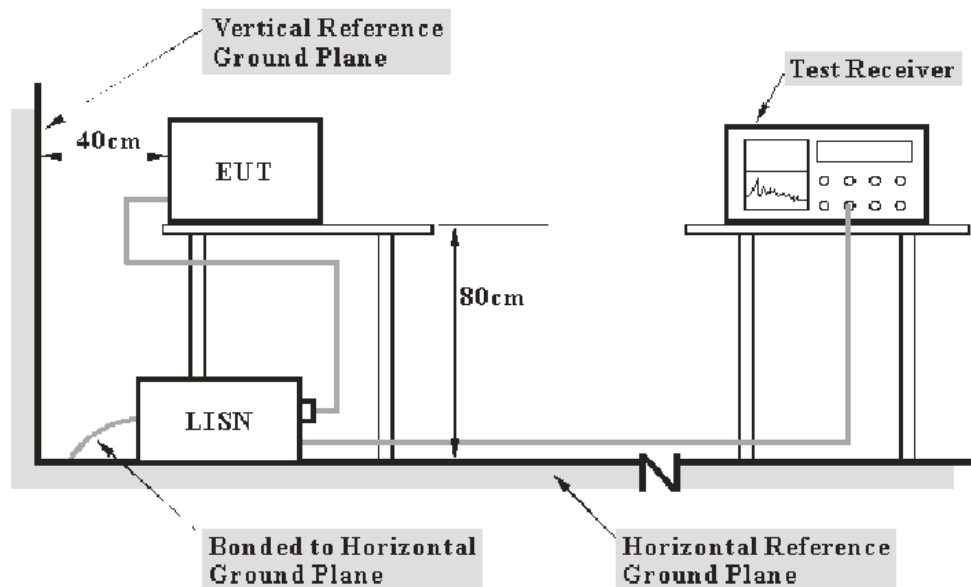
FCC§15.207

Measurement Uncertainty

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

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Dongguan) is ± 2.4 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 per ANSI C63.4-2009 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:

<i>Frequency Range</i>	<i>IF B/W</i>
150 kHz – 30 MHz	9 kHz

Test Procedure

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

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2011-11-24	2012-11-23
Rohde & Schwarz	L.I.S.N.1	ESH2-Z5	892107/021	2011-11-17	2012-11-16
Com-Power	L.I.S.N.2	LI-200	12005	N/A	N/A

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

Test Results Summary

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

16.27 dB at 0.155 MHz in the Line conducted mode.

Test Data

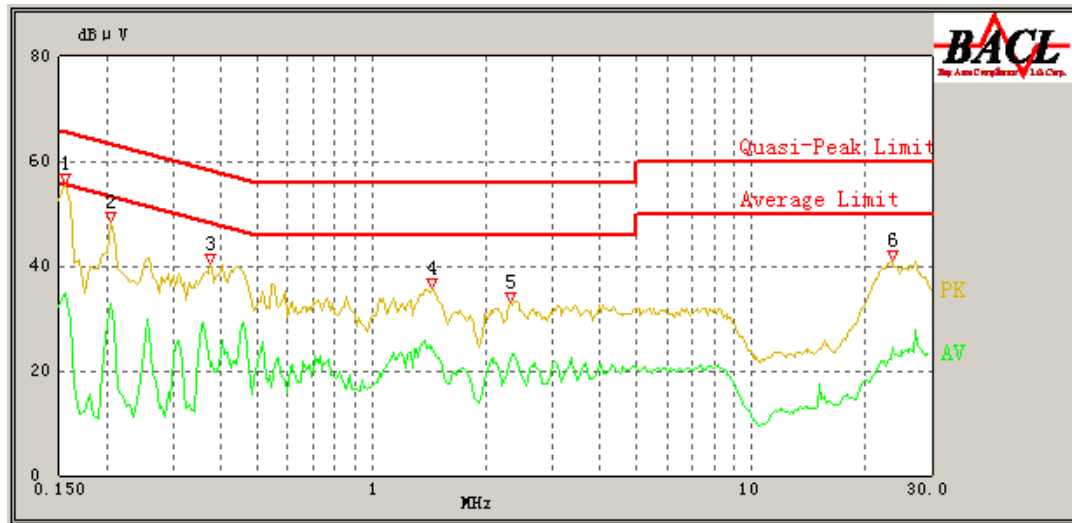
Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

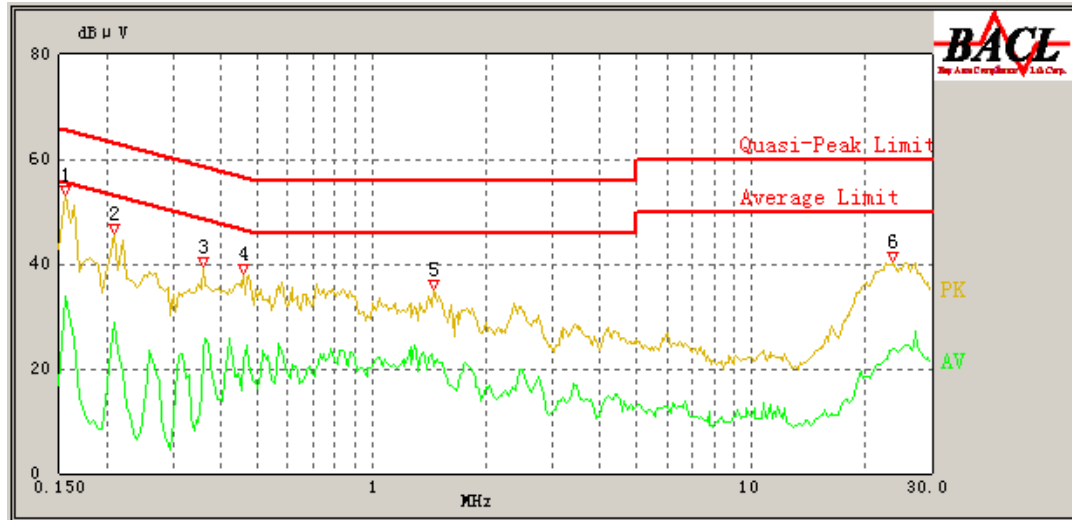
The testing was performed by Lion Cai on 2012-05-27.

Test Mode: Transmitting

AC 120V/60 Hz, Line



AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/ QP/Ave.)
0.155	47.71	0.40	65.86	18.15	QP
0.155	33.74	0.40	55.86	22.12	Ave.
0.210	40.39	0.42	64.29	23.90	QP
0.460	32.59	0.42	57.14	24.55	QP
0.460	21.84	0.42	47.14	25.30	Ave.
1.455	20.63	0.46	46.00	25.37	Ave.
0.210	28.78	0.42	54.29	25.51	Ave.
23.685	23.73	2.27	50.00	26.27	QP
0.360	23.04	0.42	50.00	26.96	Ave.
23.745	32.74	2.27	60.00	27.26	QP
1.455	28.19	0.46	56.00	27.81	QP
0.360	31.63	0.42	60.00	28.37	QP

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

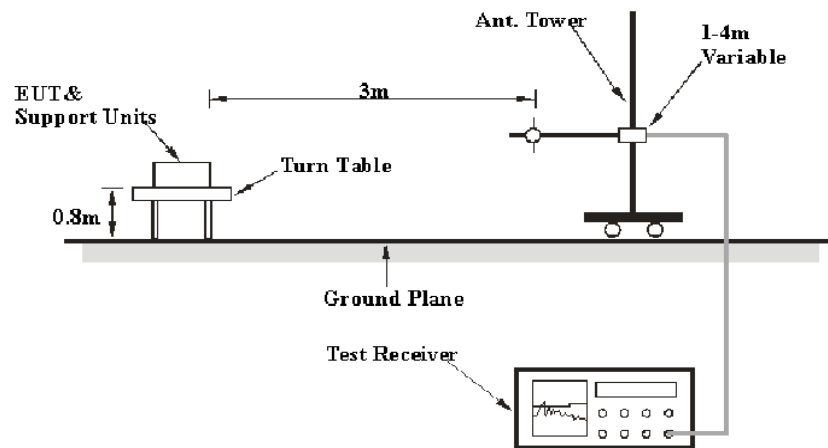
Measurement Uncertainty

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.

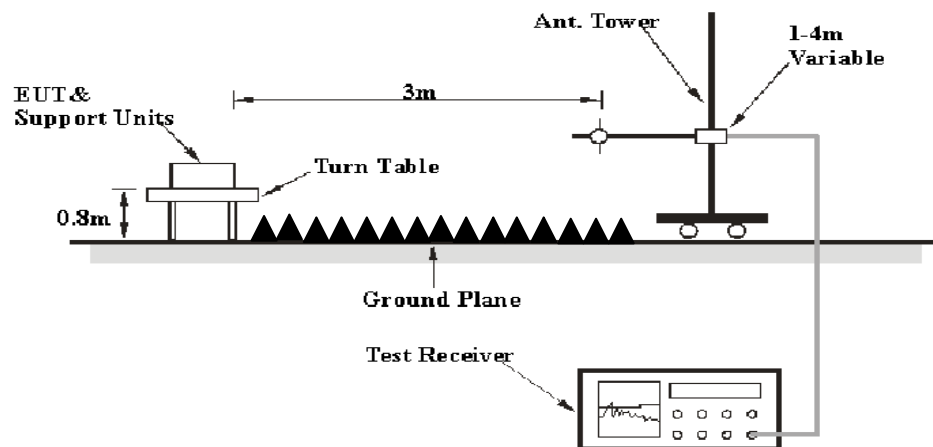
Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Dongguan) is 4.0 dB(k=2, 95% level of confidence) .

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 C63.4-2009. 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 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:

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

Test Procedure

During the radiated emission 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, 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	HP8447D	2944A09795	2011-08-02	2012-08-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-05	2012-11-04
Mini-circuits	Amplifier	ZVA-213+	T-E27H	2011-11-24	2012-11-23
Sunol Sciences	Horn Antenna	DRH-118	A052604	2011-12-01	2012-11-30
HP	Spectrum Analyzer	8593A	2919A00242	2011-12-09	2012-12-08
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

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

Test Results Summary

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

1.69 dB at 4824 MHz in the Horizontal polarization (802.11b mode)

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Lion Cai on 2012-06-07.

Mode: Transmitting

1) 30MHz-25GHz

802.11b Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/Ave.)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel: 2412 MHz									
4824	41.56	Ave.	H	33.21	4.73	27.19	52.31	54.00	1.69*
2390	16.35	AV	H	30.98	3.84	0.00	51.18	54.00	2.82*
2390	31.32	PK	H	30.98	3.84	0.00	66.15	74.00	7.85
9648	18.73	Ave.	V	38.60	8.70	26.43	39.60	54.00	14.40
7236	20.37	Ave.	H	38.72	6.56	26.58	39.08	54.00	14.92
4824	44.37	PK	H	33.21	4.73	27.19	55.12	74.00	18.88
7236	35.46	PK	H	38.72	6.56	26.58	54.17	74.00	19.83
9648	32.01	PK	V	38.60	8.70	26.43	52.88	74.00	21.12
325.26	26.85	QP	V	14.61	2.16	21.58	22.04	46.00	23.96
2412	74.35	PK	H	31.11	3.93	0.00	109.38	N/A	N/A
2412	69.32	Ave.	H	31.11	3.93	0.00	104.35	N/A	N/A
2412	59.24	Ave.	V	31.11	3.93	0.00	94.27	N/A	N/A
2412	63.85	PK	V	31.11	3.93	0.00	98.88	N/A	N/A
Middle Channel: 2437 MHz									
4874	40.19	Ave.	H	33.32	4.76	27.03	51.25	54.00	2.75*
7311	28.19	Ave.	H	38.86	6.70	26.65	47.10	54.00	6.90
9748	18.38	Ave.	V	38.80	8.60	26.53	39.25	54.00	14.75
4874	43.26	PK	H	33.32	4.76	27.03	54.32	74.00	19.68
7311	34.36	PK	H	38.86	6.70	26.65	53.27	74.00	20.73
9748	32.12	PK	V	38.80	8.60	26.53	52.99	74.00	21.01
327.39	27.14	QP	V	14.64	2.16	21.59	22.35	46.00	23.65
2437	73.36	PK	H	31.25	3.98	0.00	108.59	N/A	N/A
2437	64.35	Ave.	H	31.25	3.98	0.00	99.58	N/A	N/A
2437	59.12	Ave.	V	31.25	3.98	0.00	94.35	N/A	N/A
2437	63.64	PK	V	31.25	3.98	0.00	98.87	N/A	N/A
High Channel:2462MHz									
2483.5	16.35	AV	H	31.51	3.80	0.00	51.65	54.00	2.35*
4924	39.36	Ave.	H	33.43	4.70	27.17	50.33	54.00	3.67*
2483.5	33.24	PK	H	31.51	3.80	0.00	68.54	74.00	5.46
7386	18.95	Ave.	H	38.99	6.84	26.73	38.06	54.00	15.94
4924	43.65	PK	H	33.43	4.70	27.17	54.62	74.00	19.38
7386	34.37	PK	H	38.99	6.84	26.73	53.48	74.00	20.52
9848	31.65	PK	V	39.00	8.49	26.63	52.51	74.00	21.49
357.36	26.89	QP	V	15.49	2.30	21.66	23.02	46.00	22.98
9848	18.36	Ave.	V	39.00	8.49	26.63	39.22	74.00	34.78
2462	73.34	PK	H	31.39	3.93	0.00	108.66	N/A	N/A
2462	63.35	Ave.	H	31.39	3.93	0.00	98.67	N/A	N/A
2462	58.63	Ave.	H	31.39	3.93	0.00	93.95	N/A	N/A
2462	63.18	PK	H	31.39	3.93	0.00	98.50	N/A	N/A

802.11g Mode:

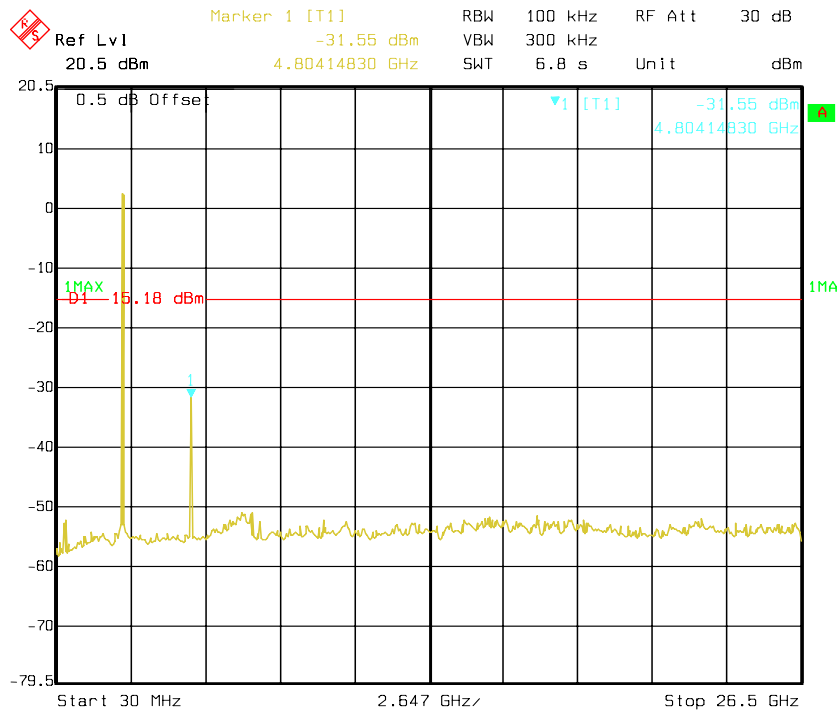
Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/Ave.)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2412 MHz									
2390	15.37	Ave.	H	30.98	3.84	0.00	50.20	54.00	3.80*
4824	35.36	Ave.	H	33.21	4.73	27.19	46.11	54.00	7.89
2390	27.35	PK	H	30.98	3.84	0.00	62.18	74.00	11.82
9648	18.09	Ave.	V	38.60	8.70	26.43	38.96	54.00	15.04
7236	20.16	Ave.	H	38.72	6.56	26.58	38.87	54.00	15.13
7236	34.65	PK	H	38.72	6.56	26.58	53.36	74.00	20.64
9648	31.34	PK	V	38.60	8.70	26.43	52.21	74.00	21.79
4824	40.25	PK	H	33.21	4.73	27.19	51.00	74.00	23.00
343.89	26.94	QP	V	14.94	2.21	21.63	22.46	46.00	23.54
2412	69.36	PK	H	31.11	3.93	0.00	104.39	N/A	N/A
2412	60.32	Ave.	H	31.11	3.93	0.00	95.35	N/A	N/A
2412	50.83	Ave.	V	31.11	3.93	0.00	85.86	N/A	N/A
2412	55.41	PK	V	31.11	3.93	0.00	90.44	N/A	N/A
Middle Channel: 2437 MHz									
4874	34.35	Ave.	H	33.32	4.76	27.03	45.41	54.00	8.59
9748	18.35	Ave.	V	38.80	8.60	26.53	39.22	54.00	14.78
7311	18.65	Ave.	H	38.86	6.70	26.65	37.56	54.00	16.44
9748	32.84	PK	V	38.80	8.60	26.53	53.71	74.00	20.29
327.39	27.63	QP	V	14.64	2.16	21.59	22.84	46.00	23.16
7311	31.38	PK	H	38.86	6.70	26.65	50.29	74.00	23.71
4874	38.65	PK	H	33.32	4.76	27.03	49.71	74.00	24.29
2437	69.58	PK	H	31.25	3.98	0.00	104.81	N/A	N/A
2437	61.38	Ave.	H	31.25	3.98	0.00	96.61	N/A	N/A
2437	50.71	Ave.	V	31.25	3.98	0.00	85.94	N/A	N/A
2437	55.28	PK	V	31.25	3.98	0.00	90.51	N/A	N/A
High Channel:2462MHz									
2483.5	15.35	Ave.	H	31.51	3.80	0.00	50.65	54.00	3.35*
4924	34.54	Ave.	H	33.43	4.70	27.17	45.51	54.00	8.49
2483.5	28.54	PK	H	31.51	3.80	0.00	63.84	74.00	10.16
7386	18.46	Ave.	H	38.99	6.84	26.73	37.57	54.00	16.43
9848	32.34	PK	V	39.00	8.49	26.63	53.20	74.00	20.80
7386	32.69	PK	H	38.99	6.84	26.73	51.80	74.00	22.20
357.36	27.35	QP	V	15.49	2.30	21.66	23.48	46.00	22.52
4924	40.37	PK	H	33.43	4.70	27.17	51.34	74.00	22.66
9848	18.01	Ave.	V	39.00	8.49	26.63	38.87	74.00	35.13
2462	69.85	PK	H	31.39	3.93	0.00	105.17	N/A	N/A
2462	59.85	Ave.	H	31.39	3.93	0.00	95.17	N/A	N/A
2462	50.25	Ave.	V	31.39	3.93	0.00	85.57	N/A	N/A
2462	55.14	PK	V	31.39	3.93	0.00	90.46	N/A	N/A

802.11n20 Mode:

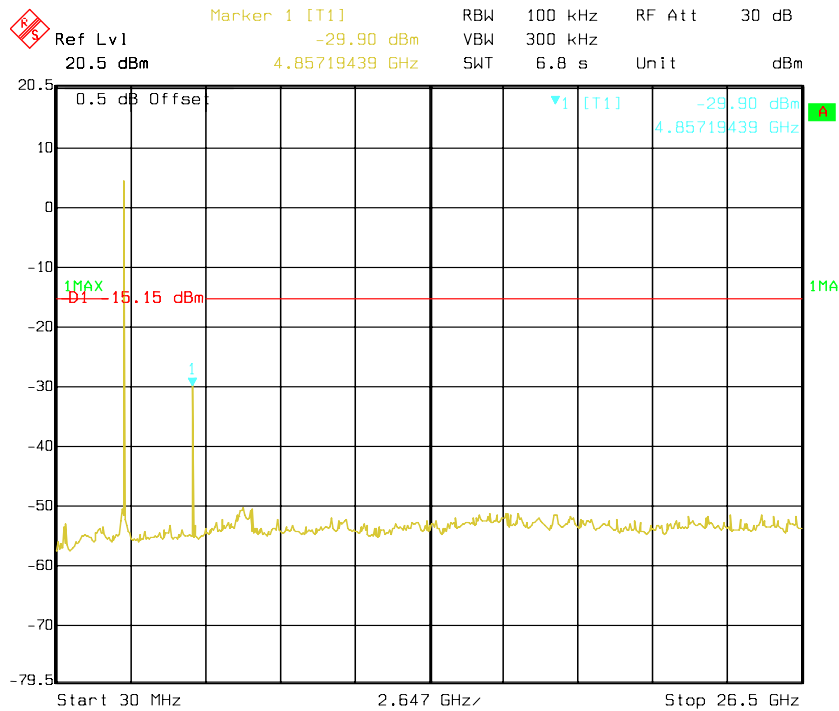
Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/Ave.)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2412 MHz									
2390	14.67	Ave.	H	30.98	3.84	0.00	49.50	54.00	4.50
4824	34.62	Ave.	H	33.21	4.73	27.19	46.11	54.00	7.89
2390	28.95	PK	H	30.98	3.84	0.00	63.78	74.00	10.22
9648	18.37	Ave.	V	38.60	8.70	26.43	38.96	54.00	15.04
7236	18.19	Ave.	H	38.72	6.56	26.58	38.87	54.00	15.13
7236	32.36	PK	H	38.72	6.56	26.58	53.36	74.00	20.64
9648	32.14	PK	V	38.60	8.70	26.43	52.21	74.00	21.79
4824	38.37	PK	H	33.21	4.73	27.19	51.00	74.00	23.00
314.89	27.34	QP	V	14.94	2.21	21.63	22.46	46.00	23.54
2412	68.59	PK	H	31.11	3.93	0.00	103.62	N/A	N/A
2412	61.31	Ave.	H	31.11	3.93	0.00	96.34	N/A	N/A
2412	48.84	Ave.	V	31.11	3.93	0.00	83.87	N/A	N/A
2412	53.56	PK	V	31.11	3.93	0.00	88.59	N/A	N/A
Middle Channel: 2437 MHz									
4874	33.85	Ave.	H	33.32	4.76	27.03	45.41	54.00	8.59
9748	18.31	Ave.	V	38.80	8.60	26.53	39.22	54.00	14.78
7311	18.25	Ave.	H	38.86	6.70	26.65	37.56	54.00	16.44
9748	31.68	PK	V	38.80	8.60	26.53	53.71	74.00	20.29
327.48	27.54	QP	V	14.64	2.16	21.59	22.84	46.00	23.16
7311	31.54	PK	H	38.86	6.70	26.65	50.29	74.00	23.71
4874	37.45	PK	H	33.32	4.76	27.03	49.71	74.00	24.29
2437	69.38	PK	H	31.25	3.98	0.00	104.61	N/A	N/A
2437	60.34	Ave.	H	31.25	3.98	0.00	95.57	N/A	N/A
2437	48.64	Ave.	V	31.25	3.98	0.00	83.87	N/A	N/A
2437	53.55	PK	V	31.25	3.98	0.00	88.78	N/A	N/A
High Channel:2462MHz									
4924	33.31	Ave.	H	33.43	4.70	27.17	45.51	54.00	8.49
7386	18.05	Ave.	H	38.99	6.84	26.73	37.57	54.00	16.43
9848	31.39	PK	V	39.00	8.49	26.63	53.20	74.00	20.80
7386	31.38	PK	H	38.99	6.84	26.73	51.80	74.00	22.20
357.36	26.85	QP	V	15.49	2.30	21.66	23.48	46.00	22.52
4924	39.34	PK	H	33.43	4.70	27.17	51.34	74.00	22.66
2483.5	29.34	PK	H	31.51	3.80	0.00	64.64	74.00	9.36
2483.5	15.36	Ave.	H	31.51	3.80	0.00	50.66	54.00	3.34
9848	18.64	Ave.	V	39.00	8.49	26.63	38.87	74.00	35.13
2462	69.85	PK	H	31.39	3.93	0.00	105.17	N/A	N/A
2462	61.25	Ave.	H	31.39	3.93	0.00	96.57	N/A	N/A
2462	48.27	Ave.	V	31.39	3.93	0.00	83.59	N/A	N/A
2462	53.15	PK	V	31.39	3.93	0.00	88.47	N/A	N/A

802.11n40 Mode:

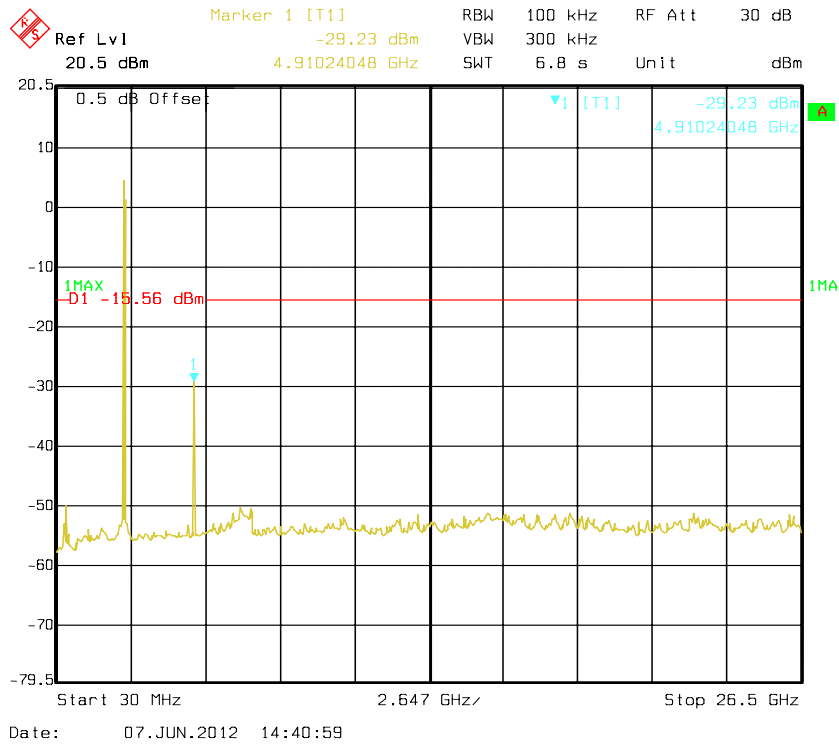
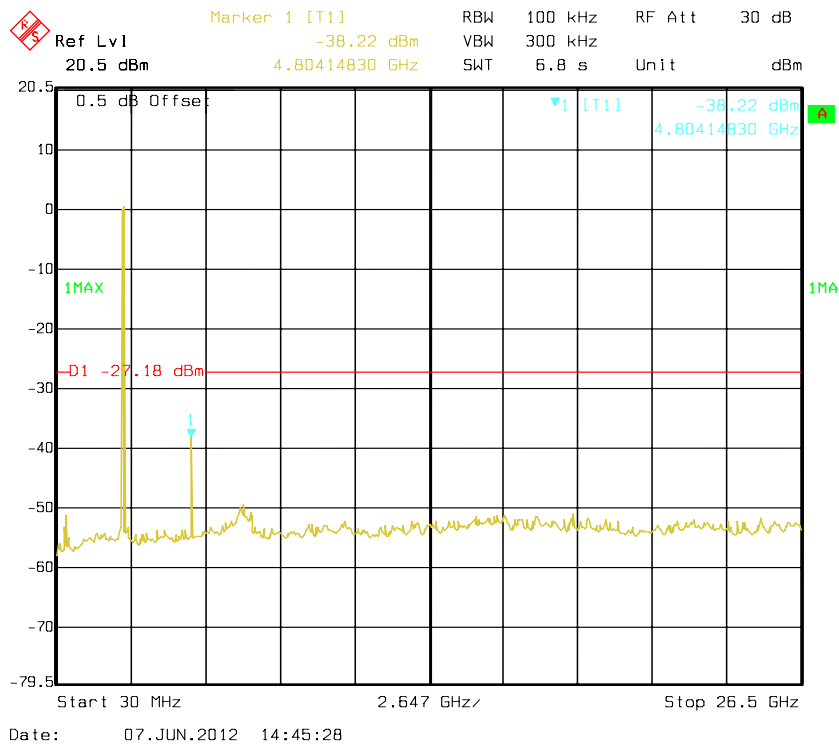
Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2422 MHz									
2390	15.34	Ave.	H	30.98	3.84	0.00	50.17	54.00	3.83*
4844	28.34	Ave.	H	33.21	4.73	27.19	46.11	54.00	7.89
2390	25.38	PK	H	30.98	3.84	0.00	60.21	74.00	13.79
9688	18.19	Ave.	V	38.60	8.70	26.43	38.96	54.00	15.04
7266	18.24	Ave.	H	38.72	6.56	26.58	38.87	54.00	15.13
7266	32.14	PK	H	38.72	6.56	26.58	53.36	74.00	20.64
9688	32.33	PK	V	38.60	8.70	26.43	52.21	74.00	21.79
4844	34.25	PK	H	33.21	4.73	27.19	51.00	74.00	23.00
326.37	26.94	QP	V	14.94	2.21	21.63	22.46	46.00	23.54
2422	67.95	PK	H	31.11	3.93	0.00	102.98	N/A	N/A
2422	59.34	Ave.	H	31.11	3.93	0.00	94.37	N/A	N/A
2422	46.64	Ave.	V	31.16	3.93	0.00	81.73	N/A	N/A
2422	51.18	PK	V	31.16	3.93	0.00	86.27	N/A	N/A
Middle Channel: 2437 MHz									
4874	28.34	Ave.	H	33.32	4.76	27.03	45.41	54.00	8.59
9748	18.04	Ave.	V	38.80	8.60	26.53	39.22	54.00	14.78
7311	18.64	Ave.	H	38.86	6.70	26.65	37.56	54.00	16.44
9748	31.34	PK	V	38.80	8.60	26.53	53.71	74.00	20.29
329.34	27.34	QP	V	14.64	2.16	21.59	22.84	46.00	23.16
7311	31.35	PK	H	38.86	6.70	26.65	50.29	74.00	23.71
4874	35.36	PK	H	33.32	4.76	27.03	49.71	74.00	24.29
2437	66.38	PK	H	31.25	3.98	0.00	101.61	N/A	N/A
2437	58.34	Ave.	H	31.25	3.98	0.00	87.87	N/A	N/A
2437	46.59	Ave.	V	31.25	3.98	0.00	81.82	N/A	N/A
2437	51.27	PK	V	31.25	3.98	0.00	86.50	N/A	N/A
High Channel:2452MHz									
2483.5	14.59	Ave.	H	31.51	3.80	0.00	49.89	54.00	4.11
4904	28.35	Ave.	H	33.43	4.70	27.17	45.51	54.00	8.49
2483.5	25.38	PK	H	31.51	3.80	0.00	60.68	74.00	13.32
7356	18.39	Ave.	H	38.99	6.84	26.73	37.57	54.00	16.43
9808	32.31	PK	V	39.00	8.49	26.63	53.20	74.00	20.80
7356	32.36	PK	H	38.99	6.84	26.73	51.80	74.00	22.20
343.65	27.36	QP	V	15.49	2.30	21.66	23.48	46.00	22.52
4904	38.36	PK	H	33.43	4.70	27.17	51.34	74.00	22.66
9808	18.25	Ave.	V	39.00	8.49	26.63	38.87	74.00	35.13
2452	67.54	PK	H	31.39	3.93	0.00	102.86	N/A	N/A
2452	59.38	Ave.	H	31.39	3.93	0.00	94.70	N/A	N/A
2452	46.24	Ave.	H	31.33	3.93	0.00	81.50	N/A	N/A
2452	50.85	PK	H	31.33	3.93	0.00	86.11	N/A	N/A

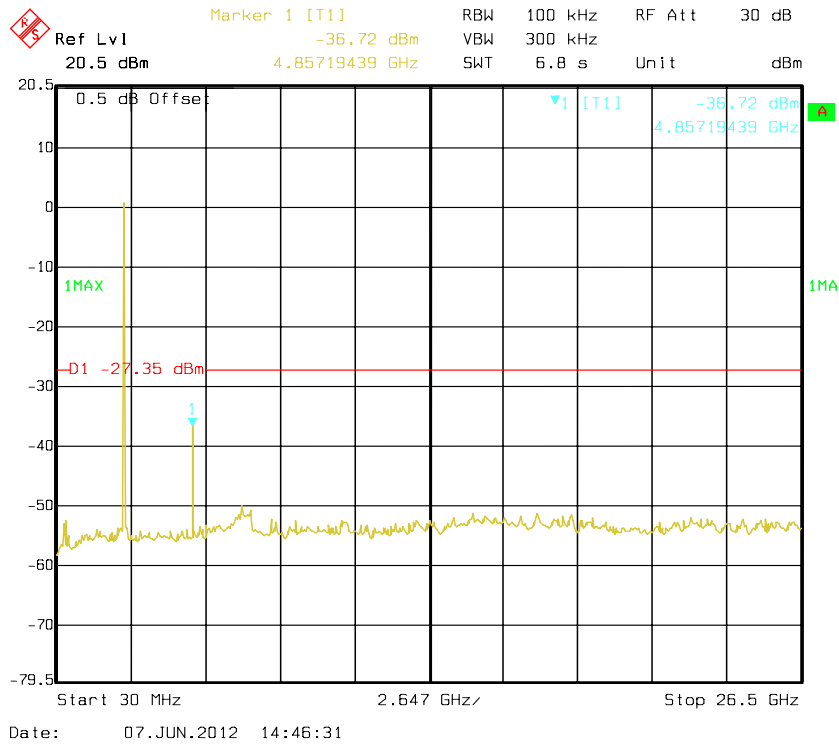
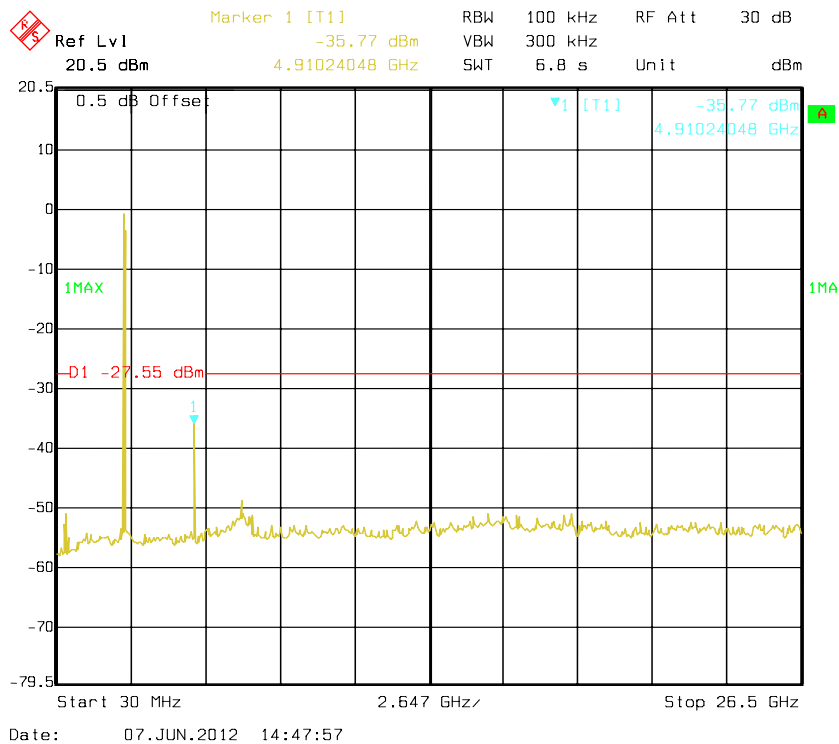
Conducted Spurious Emissions at Antenna Port**802.11b Low Channel**

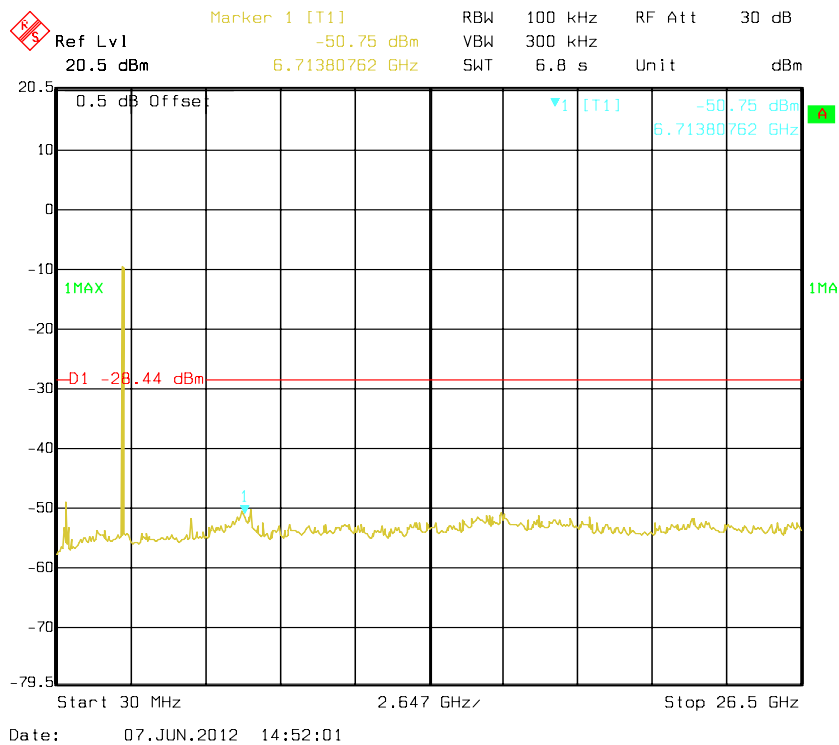
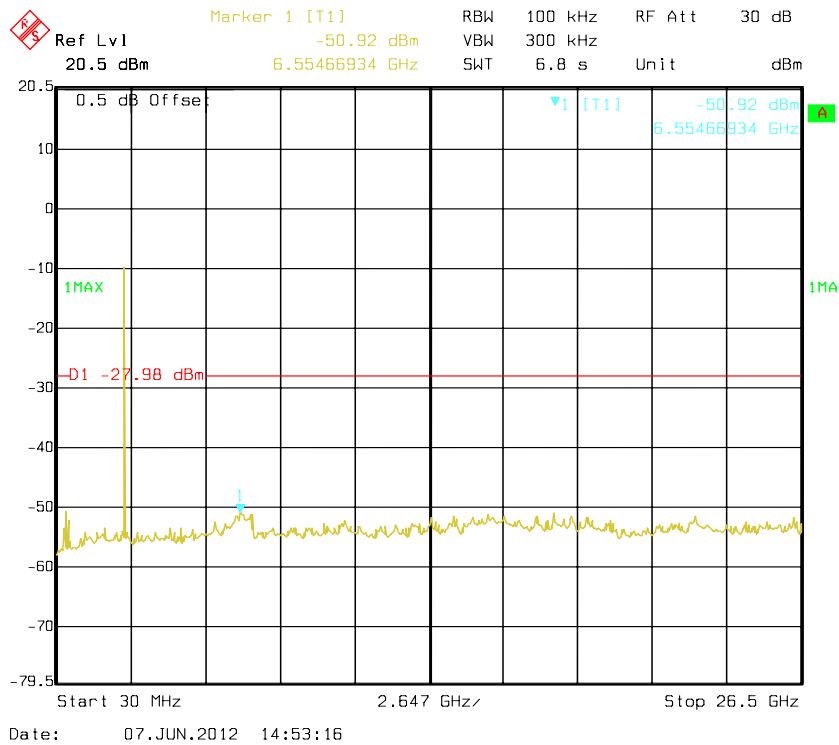
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802.11b Middle Channel

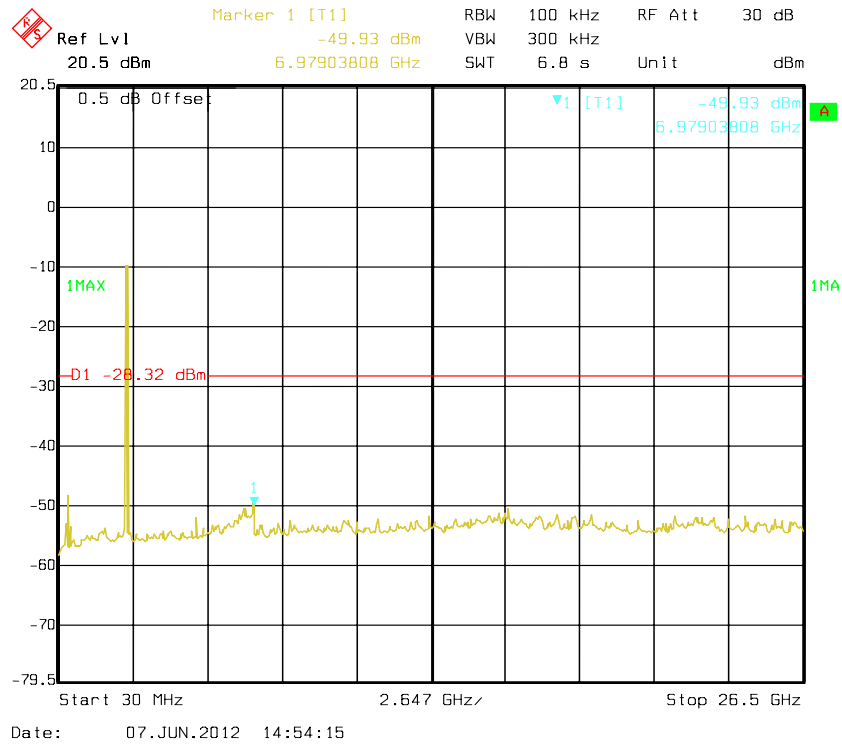
Date: 07.JUN.2012 14:39:57

802.11b High Channel**802.11g Low Channel**

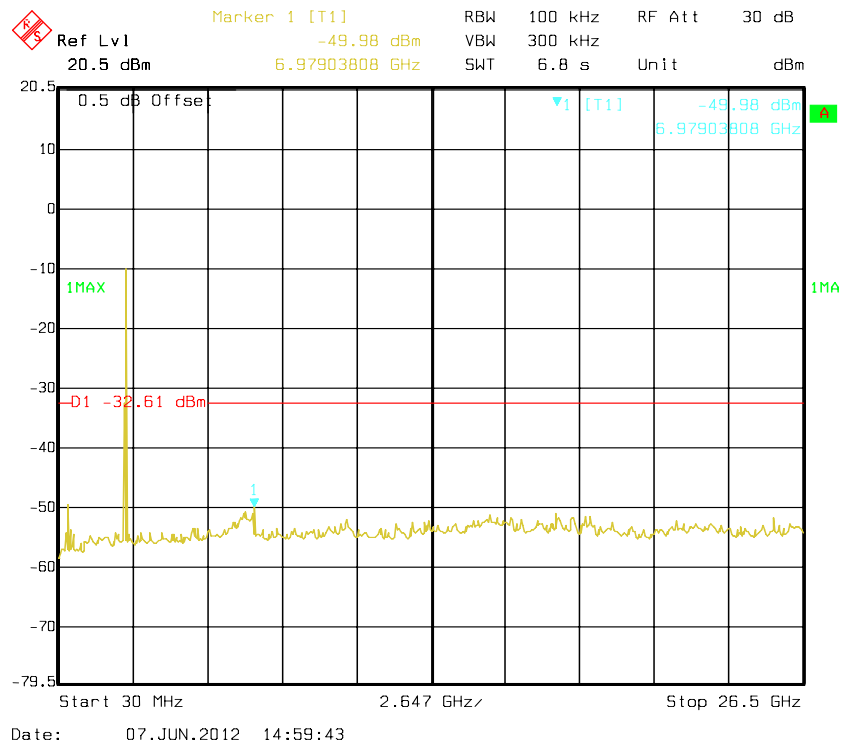
802.11g Middle Channel**802.11g High Channel**

802.11n20 Low Channel**802.11n20 Middle Channel**

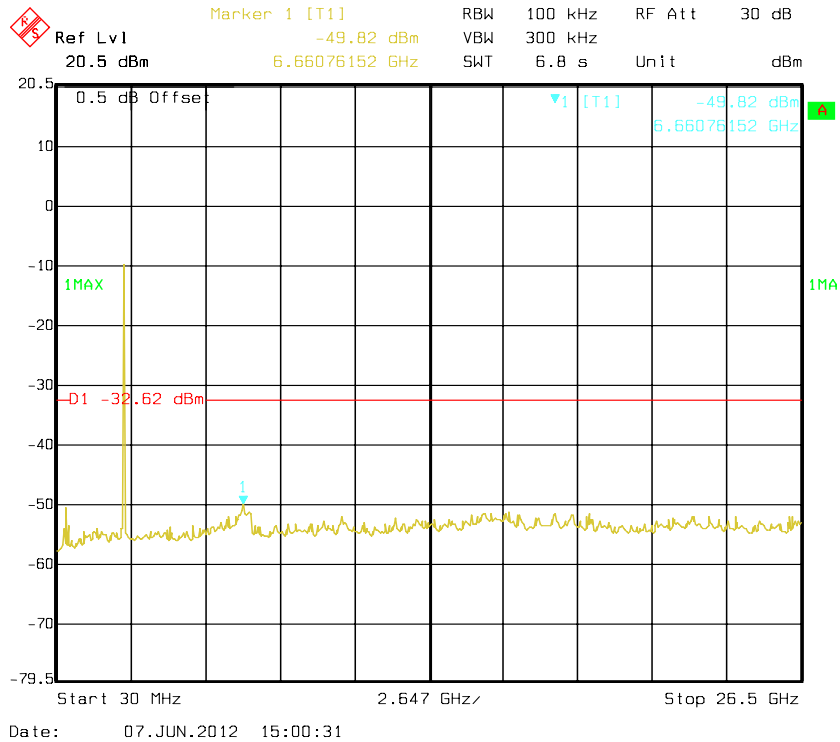
802.11n20 High Channel



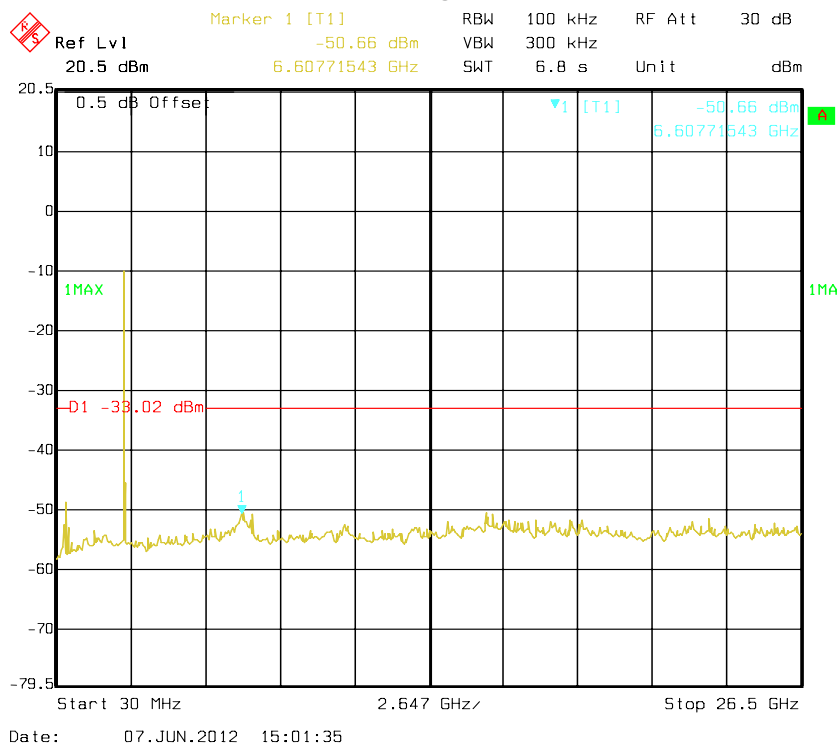
802.11n40 Low Channel



802.11n40 Middle Channel



802.11n40 High Channel



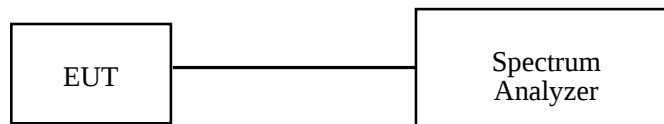
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

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



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

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

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	48 %
ATM Pressure:	100.0kPa

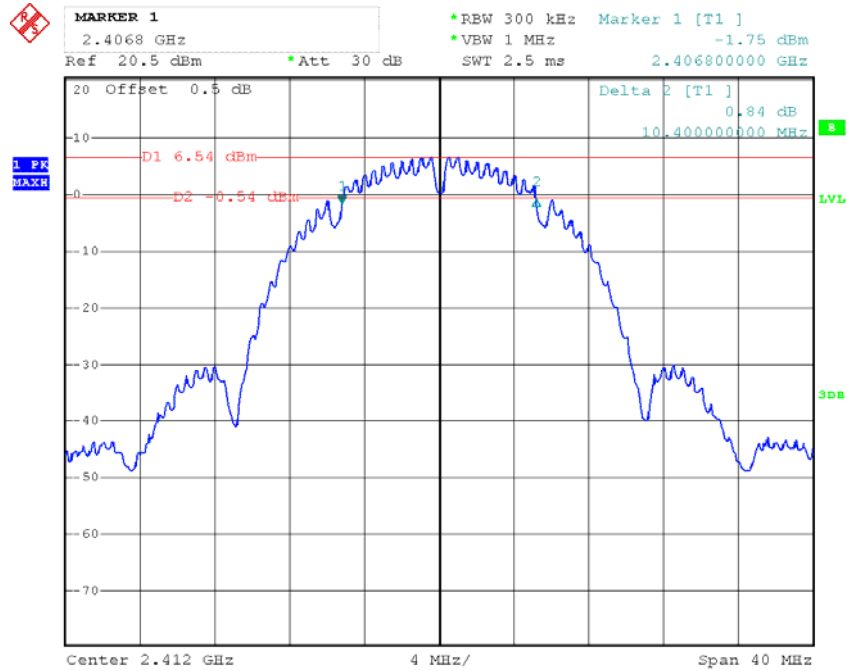
The testing was performed by Lion Cai on 2012-07-07.

Test Result: Pass.

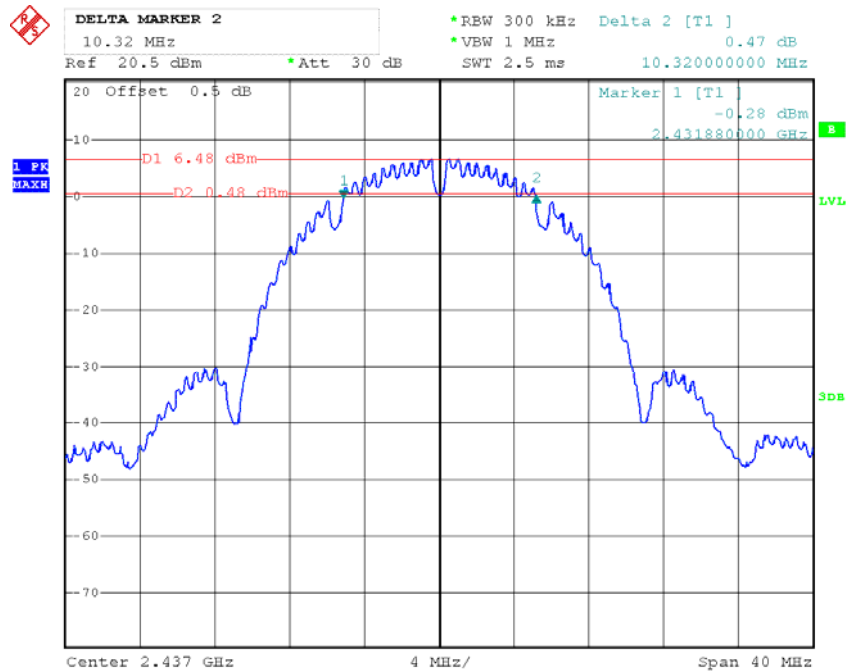
Please refer to the following tables and plots.

Channel	Frequency	6 dB Bandwidth	Limit
	(MHz)	(MHz)	(KHz)
802.11b mode			
Low	2412	10.4	>500
Middle	2437	10.32	>500
High	2462	10.32	>500
802.11g mode			
Low	2412	16.72	>500
Middle	2437	16.72	>500
High	2462	16.72	>500
802.11n20 mode			
Low	2412	17.92	>500
Middle	2437	17.84	>500
High	2462	17.84	>500
802.11n40 mode			
Low	2422	36.64	>500
Middle	2437	36.64	>500
High	2452	36.8	>500

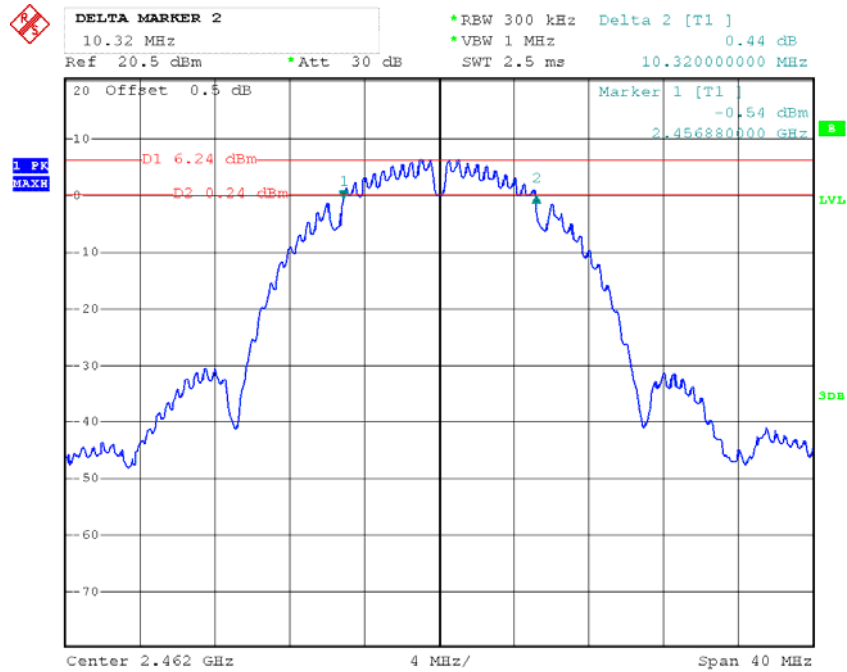
802.11b Low Channel



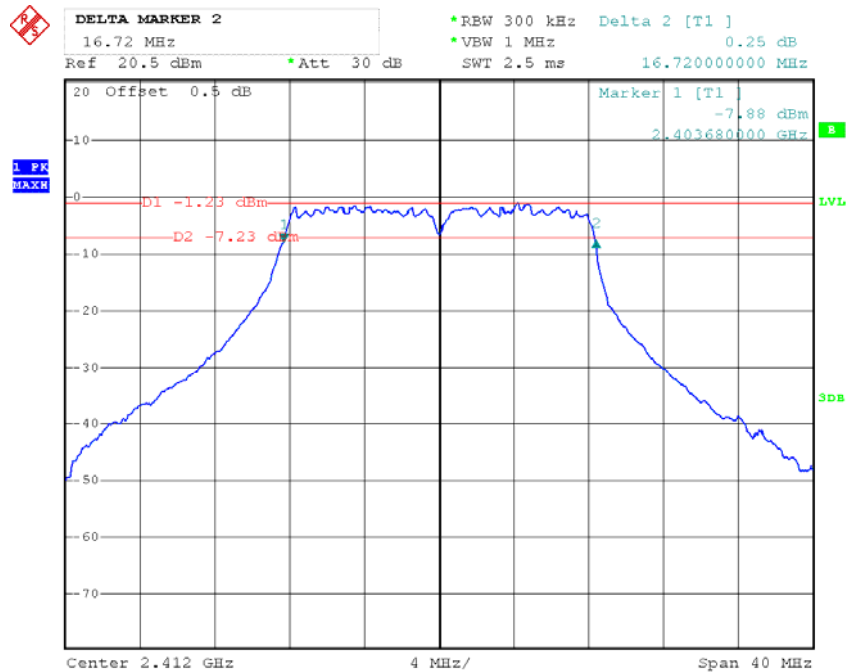
802.11b Middle Channel



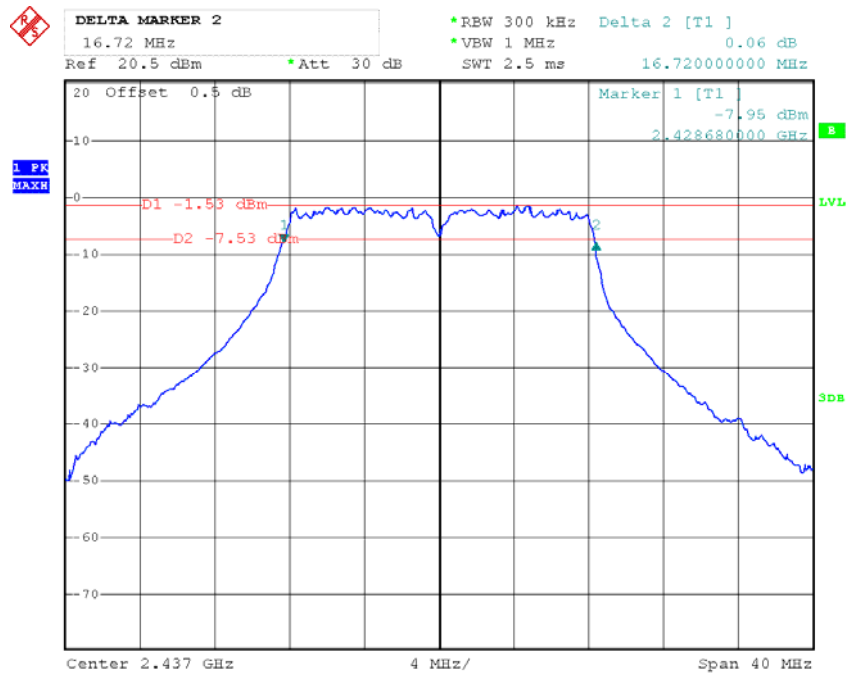
802.11b High Channel



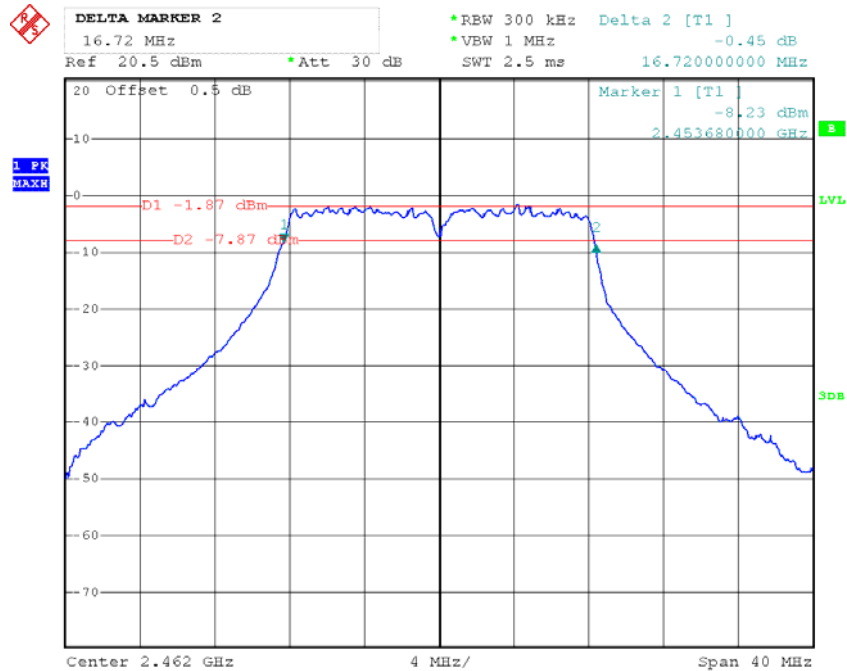
802.11g Low Channel



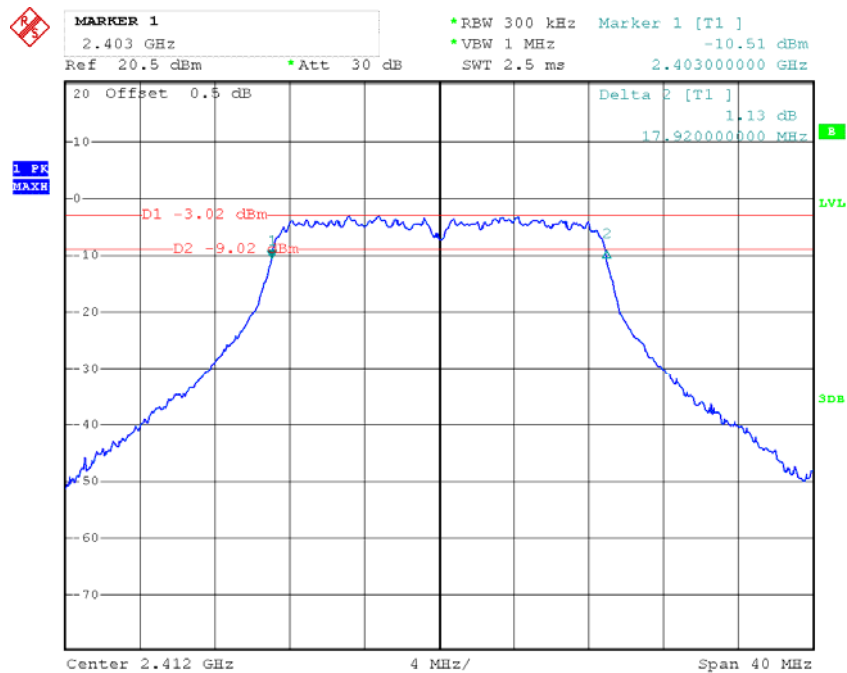
802.11g Middle Channel



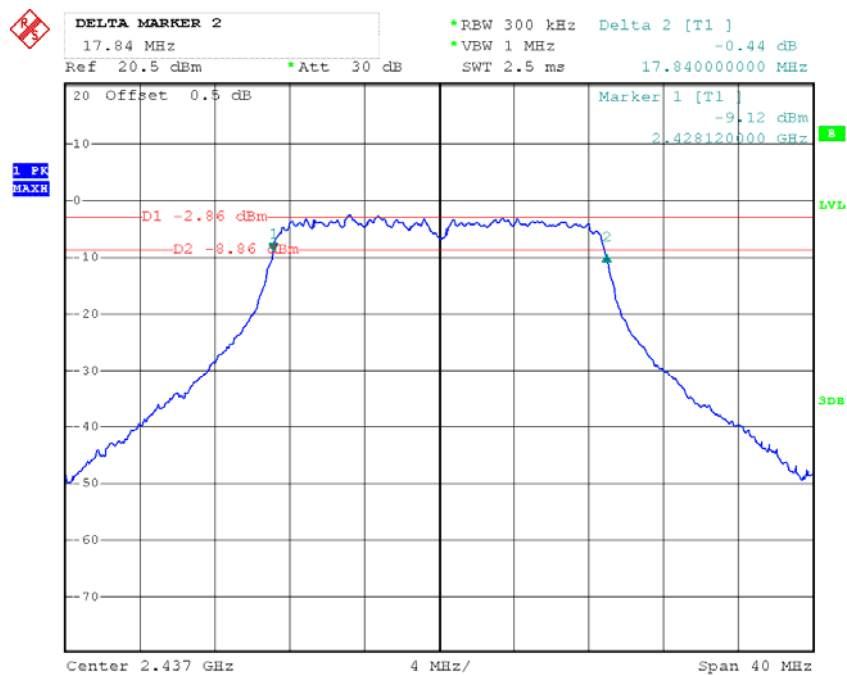
802.11g High Channel



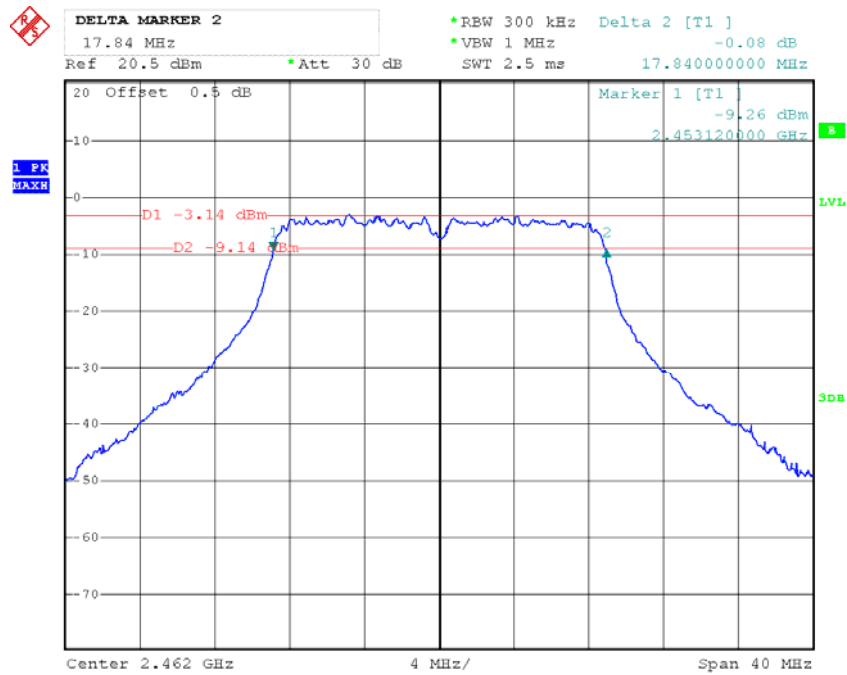
802.11n20 Low Channel



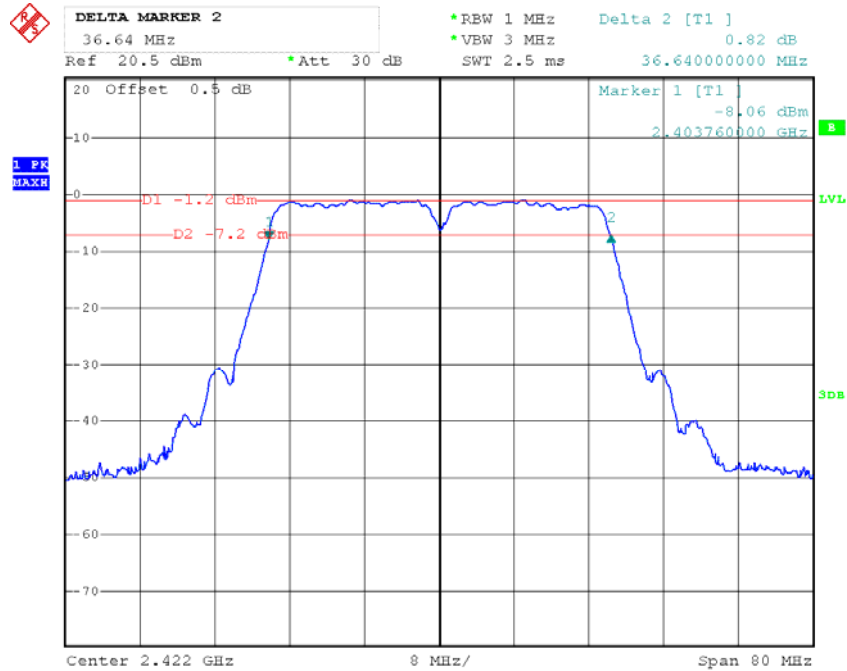
802.11n20 Middle Channel



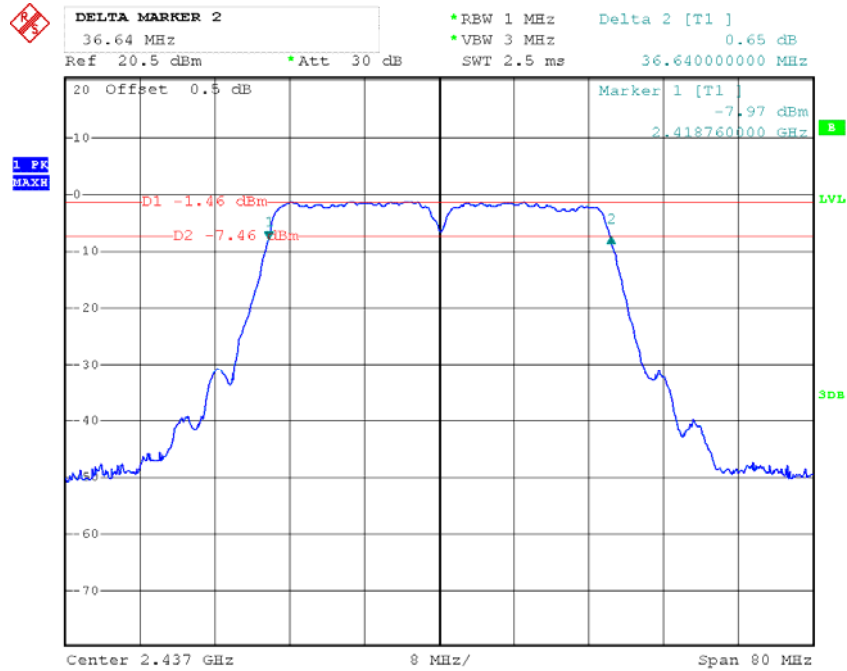
802.11n20 High Channel



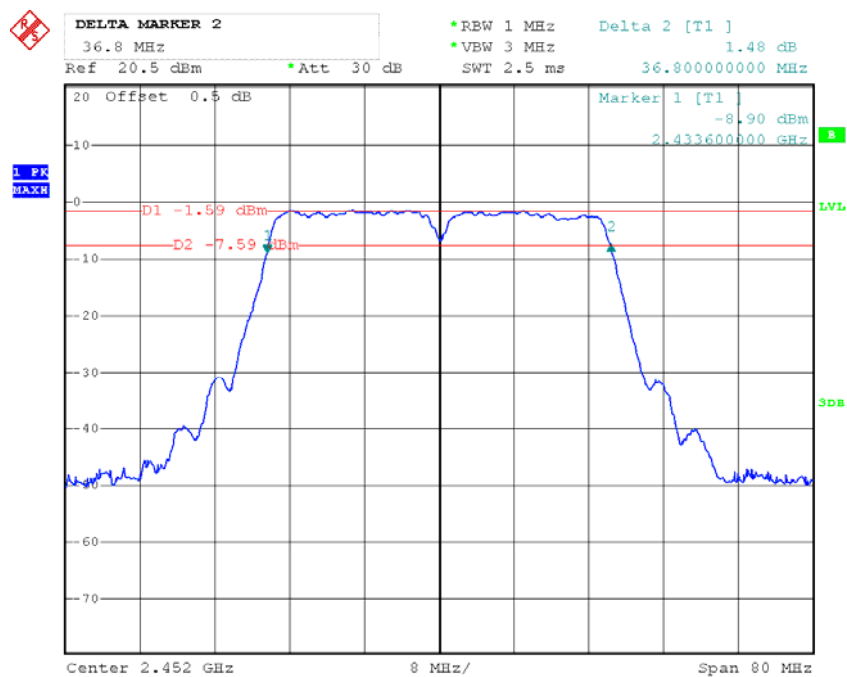
802.11n40 Low Channel



802.11n40 Middle Channel



802.11n40 High Channel



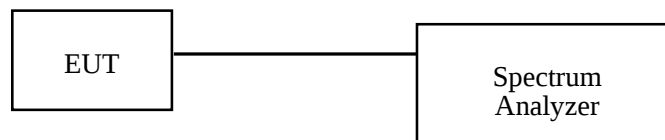
FCC §15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER

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



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

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

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

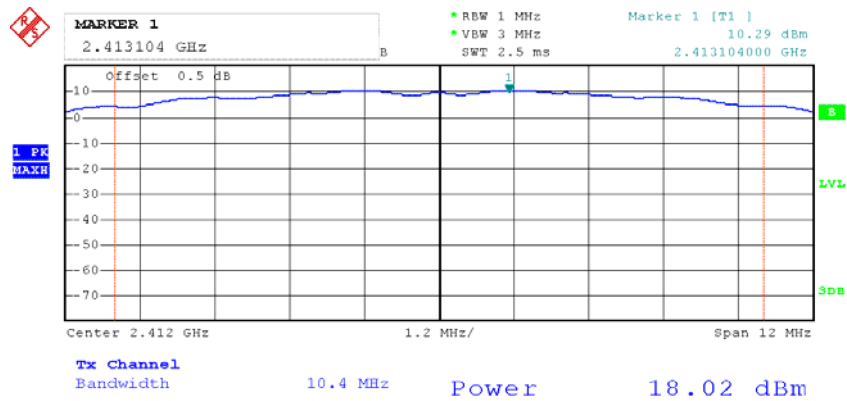
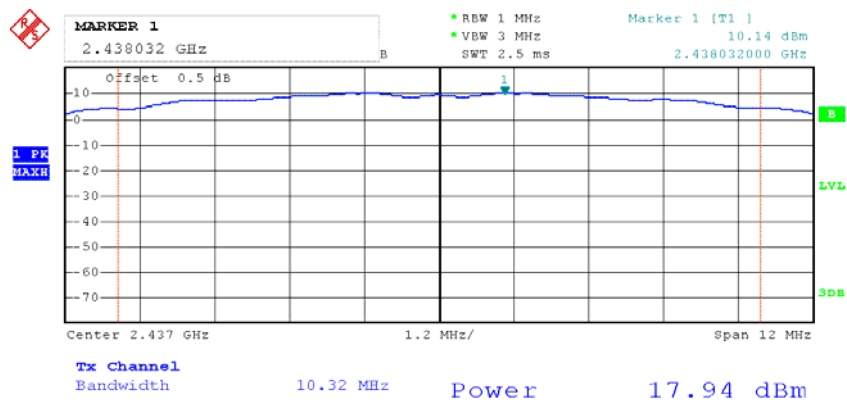
The testing was performed by Lion Cai on 2012-07-07.

Test Mode: Transmitting

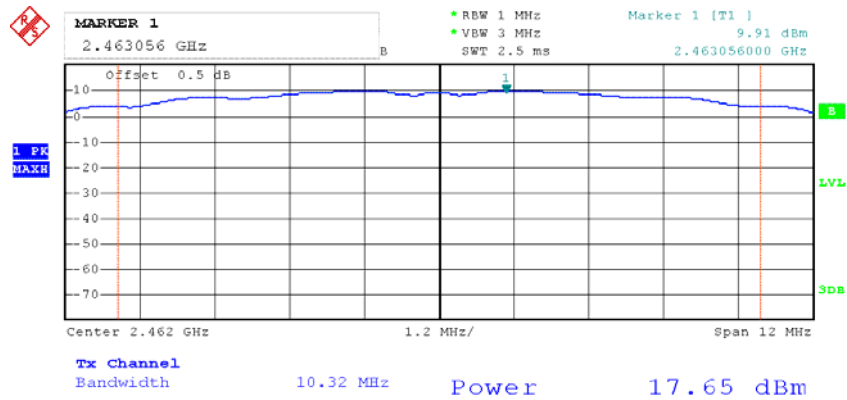
Channel	Frequency	Conducted Output Power	Limit	Result
	(MHz)	(dBm)	(dBm)	
802.11b mode				
Low	2412 MHz	18.02	30	PASS
Middle	2437 MHz	17.94	30	PASS
High	2462 MHz	17.65	30	PASS
802.11g mode				
Low	2412 MHz	14.98	30	PASS
Middle	2437 MHz	14.87	30	PASS
High	2462 MHz	14.62	30	PASS
802.11n20 mode				
Low	2412 MHz	13.77	30	PASS
Middle	2437 MHz	14.03	30	PASS
High	2462 MHz	13.79	30	PASS
802.11n40 mode				
Low	2422 MHz	13.02	30	PASS
Middle	2437 MHz	12.85	30	PASS
High	2452 MHz	12.62	30	PASS

The antenna gain is 0.84 dBi.

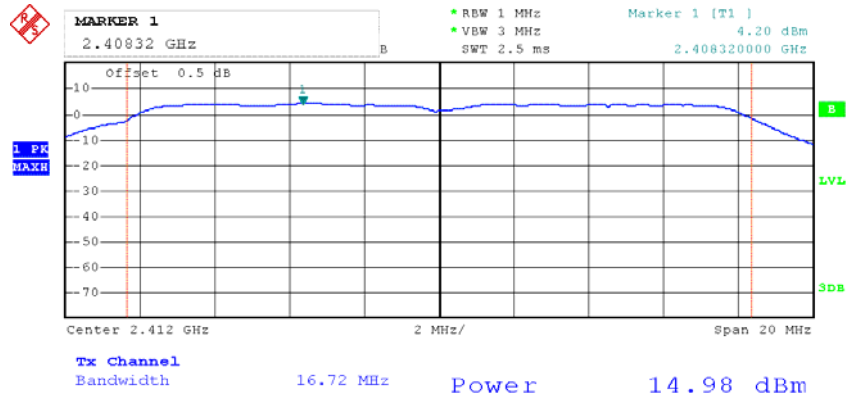
Please refer to the following plots

802.11b RF Output Power, Low Channel**802.11b RF Output Power, Middle Channel**

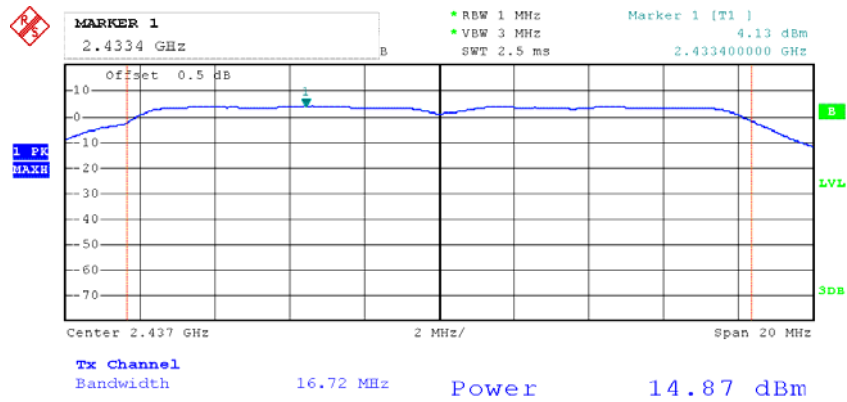
802.11b RF Output Power, High Channel



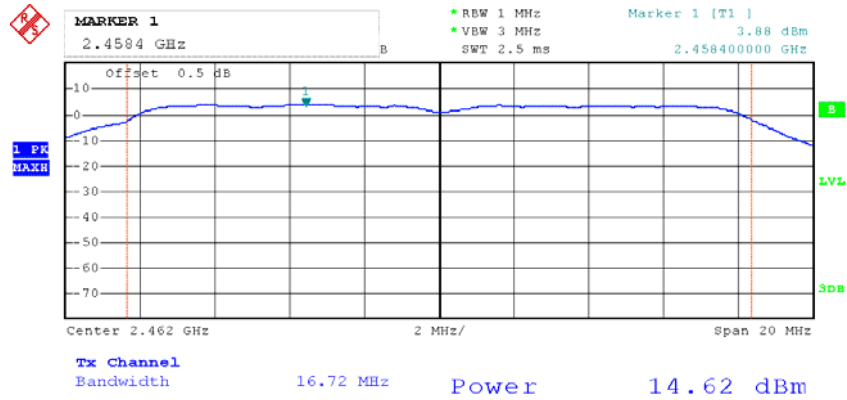
802.11g RF Output Power, Low Channel



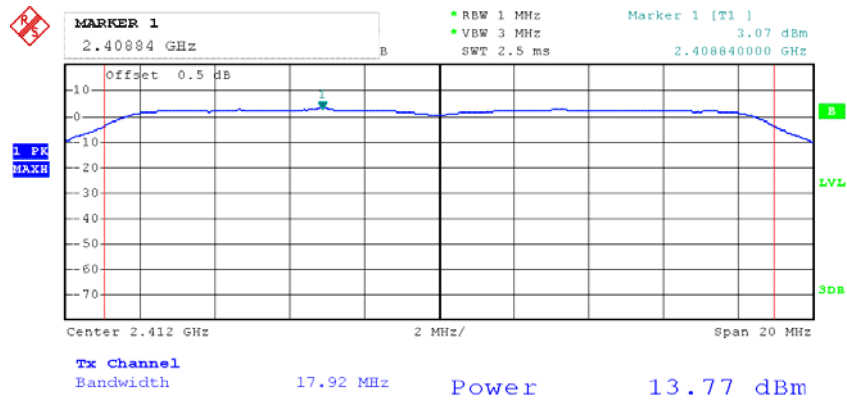
802.11g RF Output Power, Middle Channel



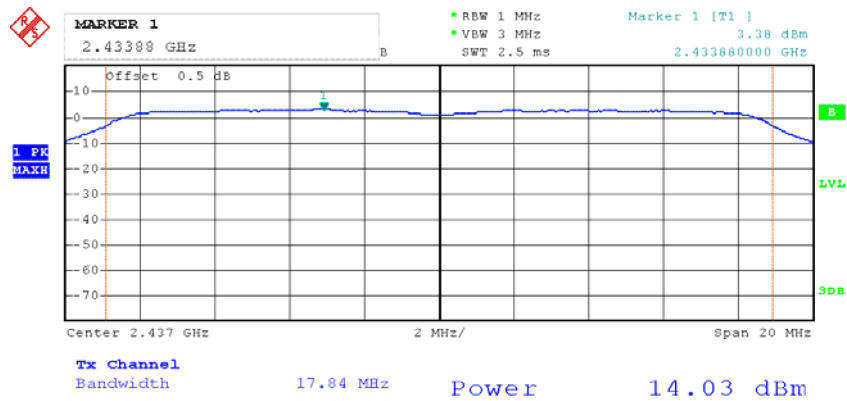
802.11g RF Output Power, High Channel



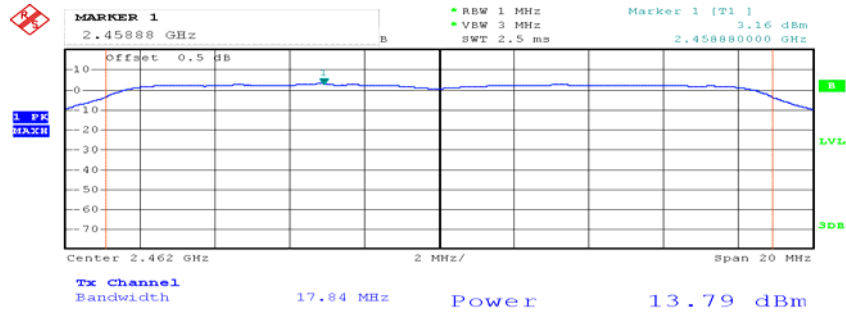
802.11n20 RF Output Power, Low Channel



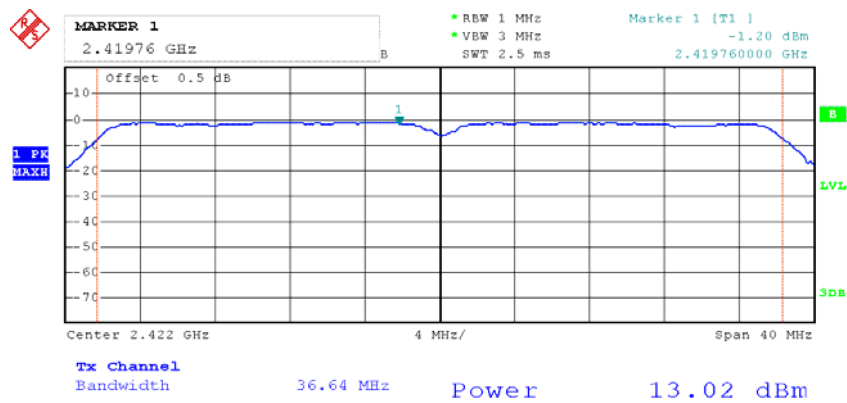
802.11n20 RF Output Power, Middle Channel



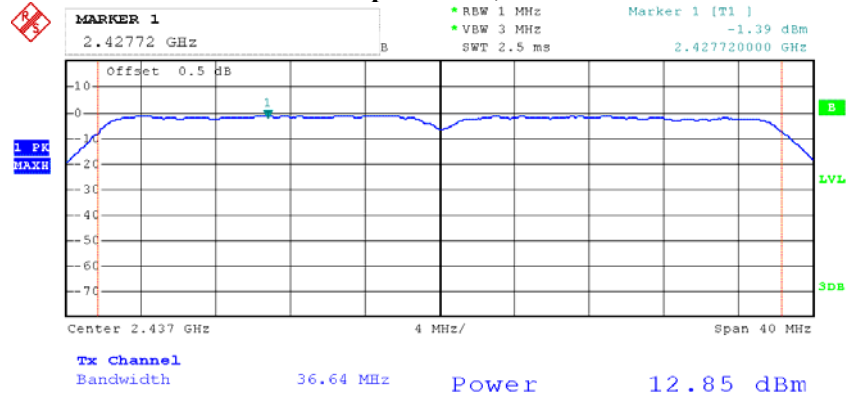
802.11n20 RF Output Power, High Channel



802.11n40 RF Output Power, Low Channel



802.11n40 RF Output Power, Middle 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

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	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10

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

Test Data

Environmental Conditions

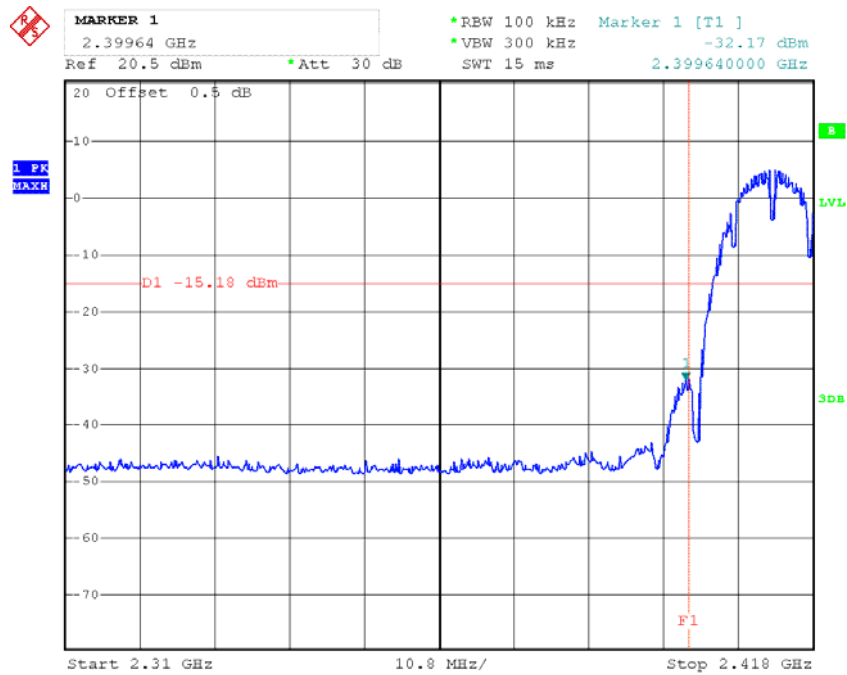
Temperature:	25 ° C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Lion Cai on 2012-07-07.

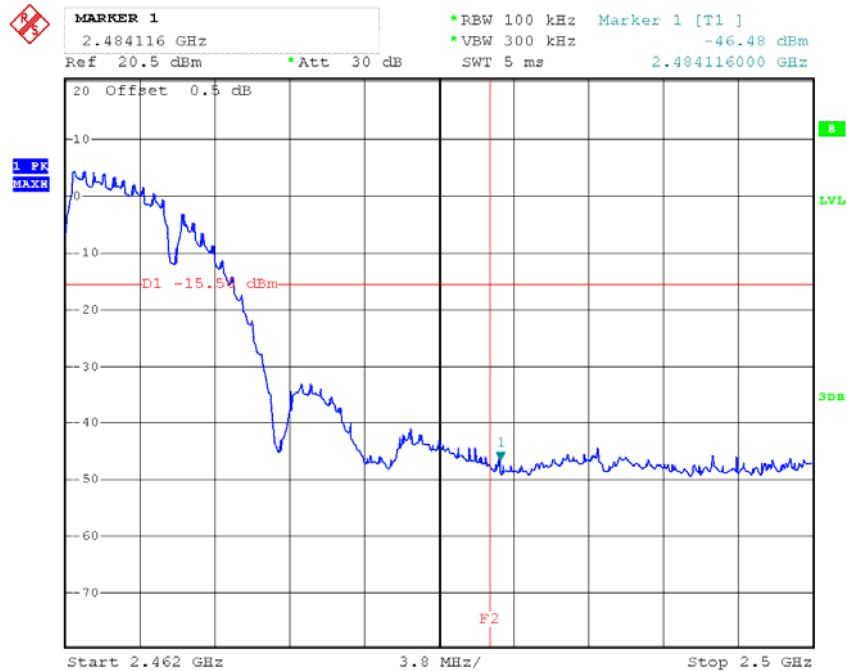
Test Result: Compliance

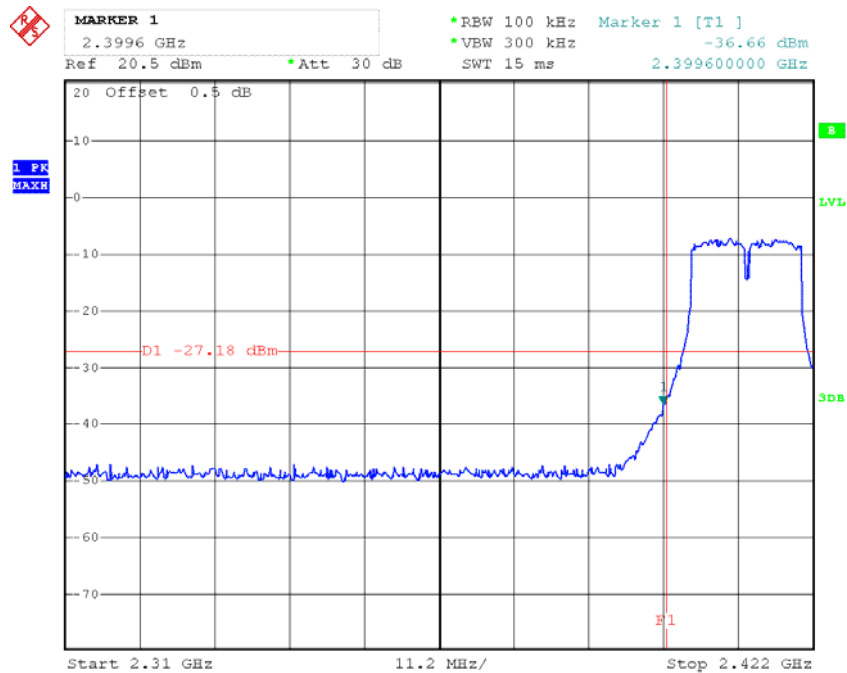
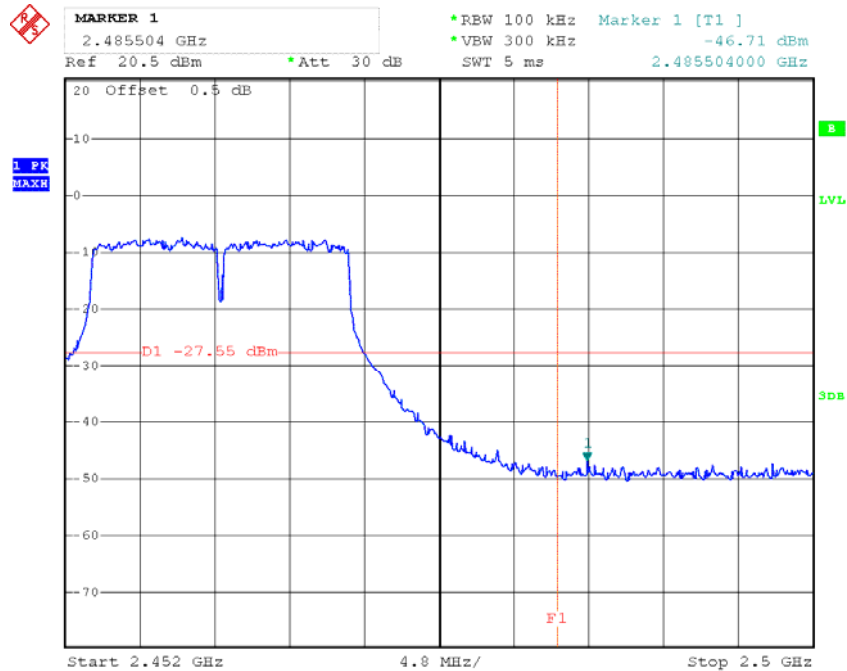
Please refer to following plots.

802.11b: Band Edge, Left Side

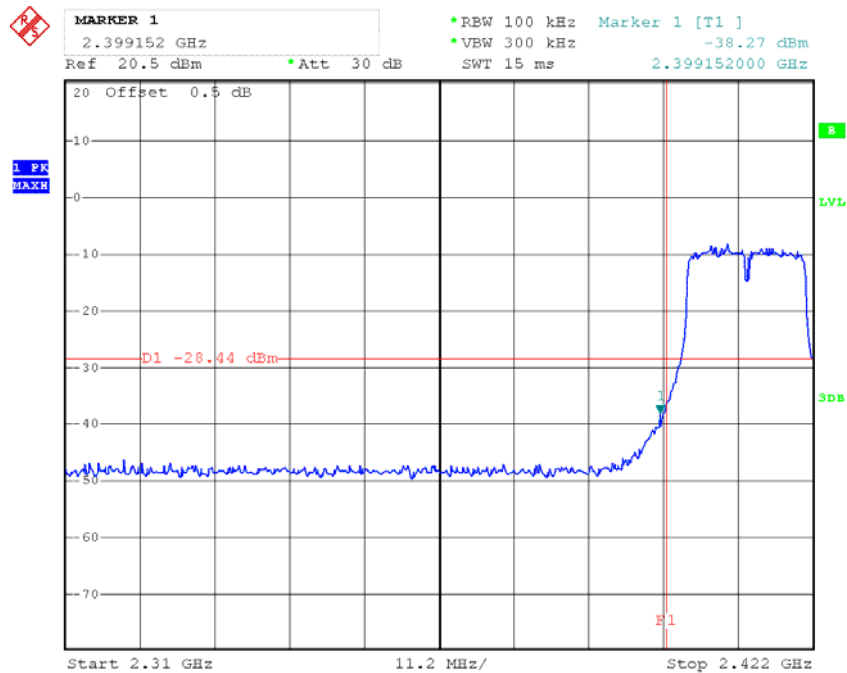


802.11b: Band Edge, Right Side

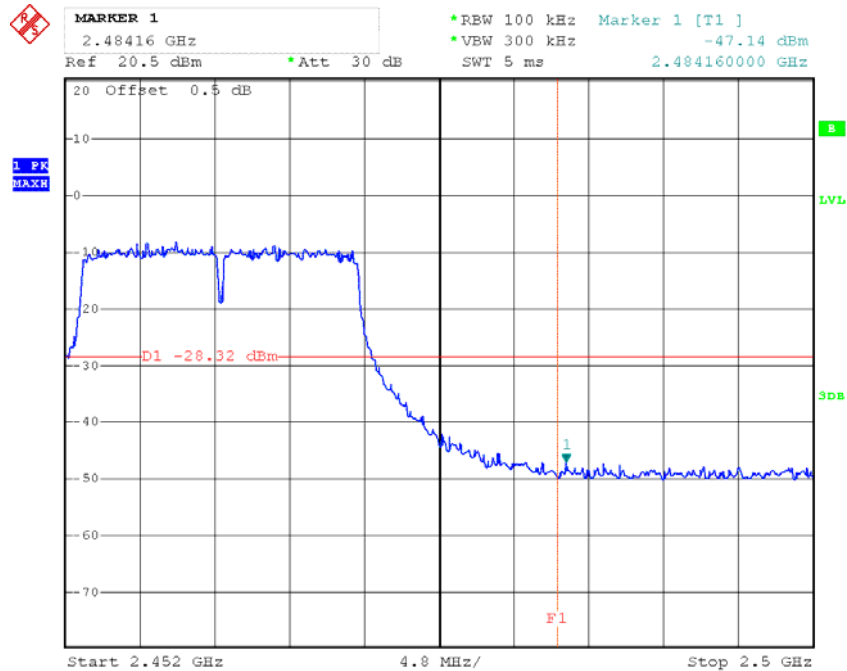


802.11g: Band Edge, Left Side**802.11g: Band Edge, Right Side**

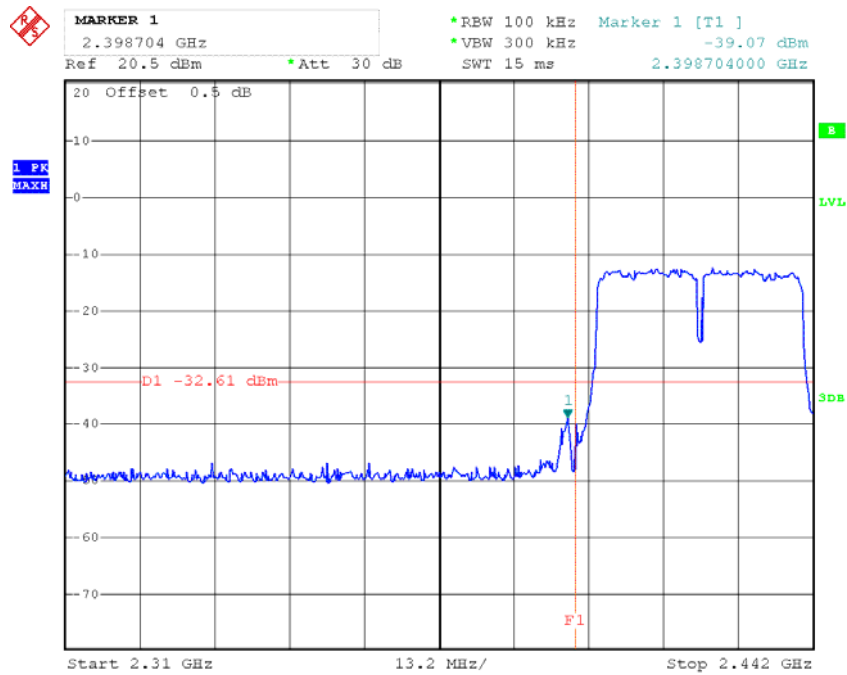
802.11n20: Band Edge, Left Side



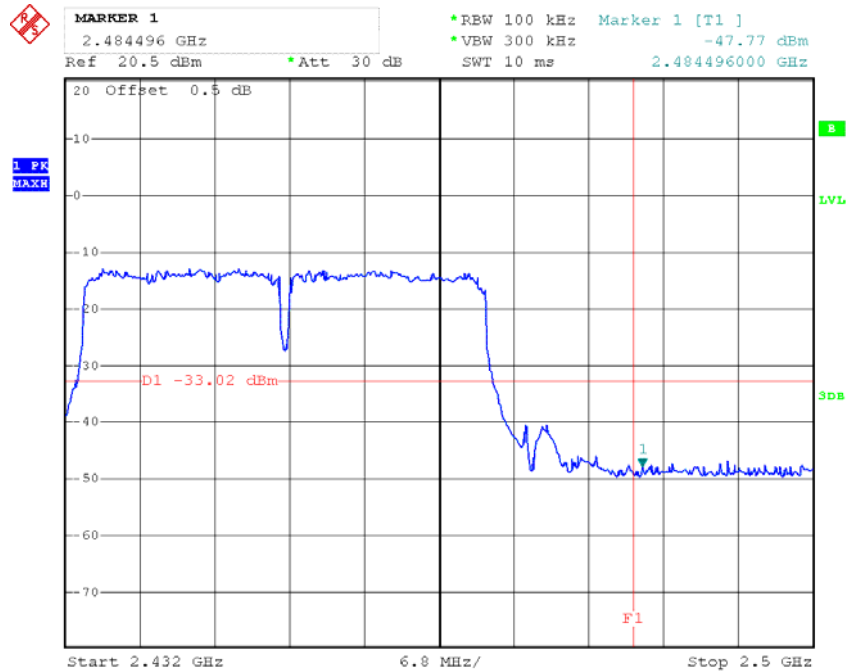
802.11n20: Band Edge, Right Side



802.11n40: Band Edge, Left Side



802.11n40: 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

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. According to KDB 558074 D01 DTS Meas Guidance v01, set the RBW = 100 kHz, VBW $\geq$ 300 kHz, set the span to 5-30 % greater than the EBW.
4. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
5. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = $10\log(3\text{ kHz}/100\text{ kHz}) = -15.2\text{ dB}$.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

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

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Lion Cai on 2012-07-07 .

Test Mode: Transmitting

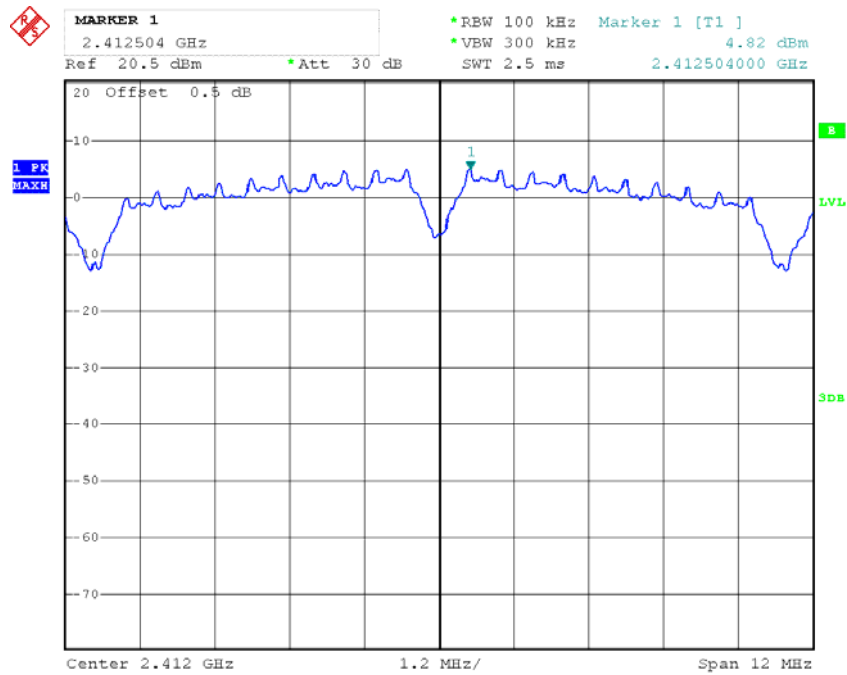
Test Result: Pass

Channel	Reading Level	PSD	Limit	Result
	(dBm/100kHz)	(dBm/3kHz)	(dBm/3kHz)	
802.11b mode				
Low	4.82	-10.38	8	PASS
Middle	4.85	-10.35	8	PASS
High	4.44	-10.76	8	PASS
802.11g mode				
Low	-7.18	-22.38	8	PASS
Middle	-7.35	-22.55	8	PASS
High	-7.55	-22.75	8	PASS
802.11n20 mode				
Low	-8.44	-23.64	8	PASS
Middle	-7.98	-23.18	8	PASS
High	-8.32	-23.52	8	PASS
802.11n40 mode				
Low	-12.61	-27.81	8	PASS
Middle	-12.62	-27.82	8	PASS
High	-13.02	-28.22	8	PASS

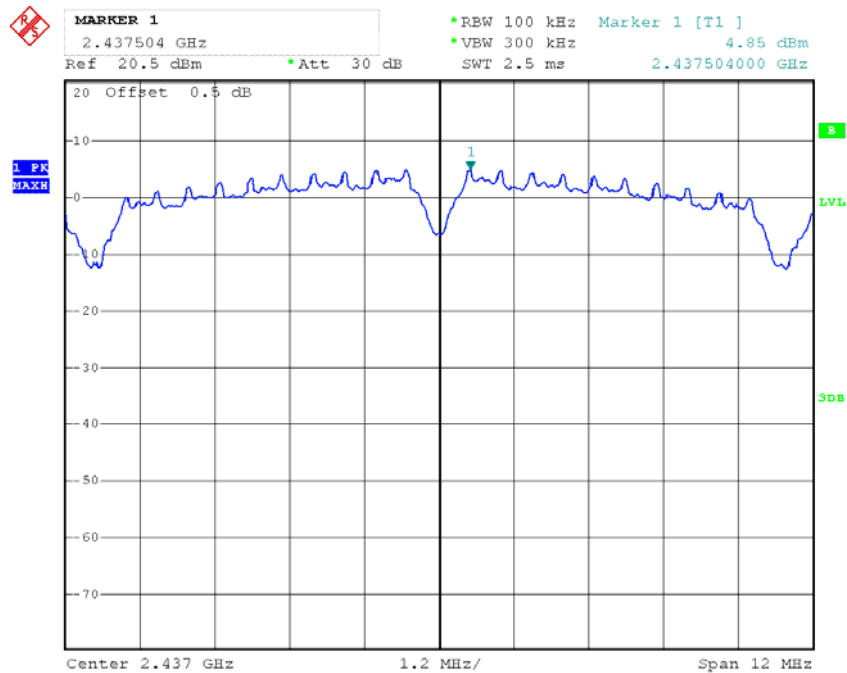
Note: the antenna gain is 0.84dBi.

Please refer to the following plots

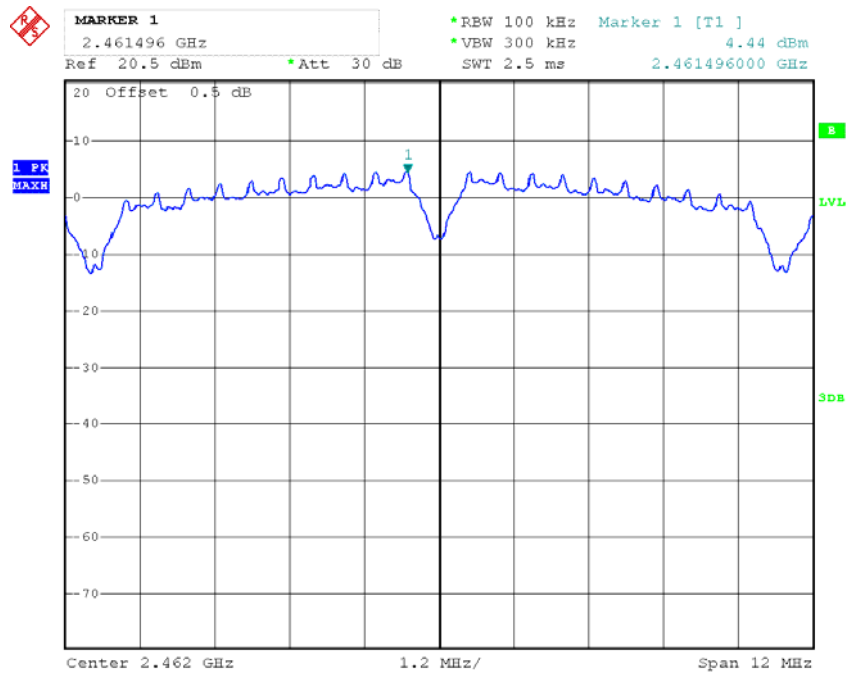
Power Spectral Density, 802.11b Low Channel



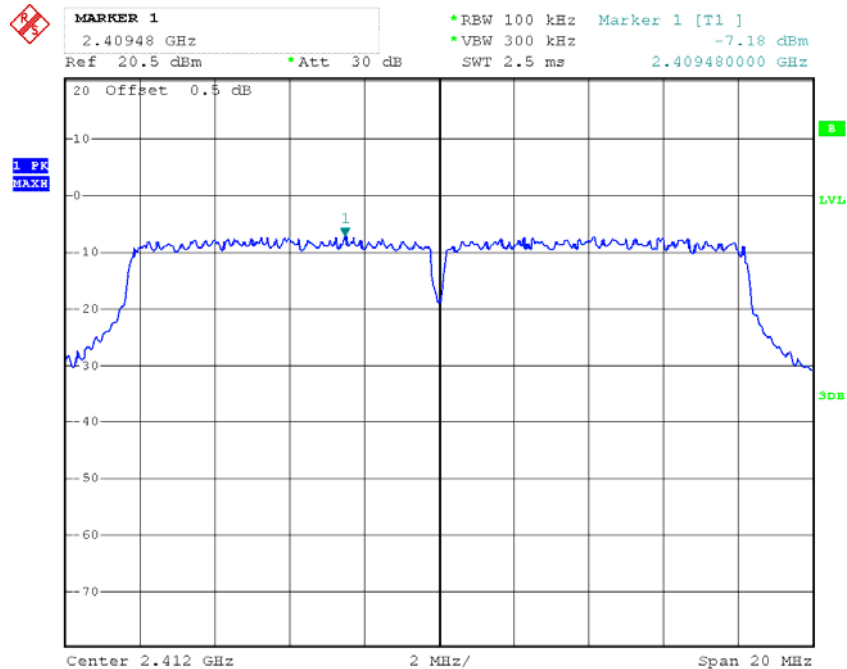
Power Spectral Density, 802.11b Middle Channel



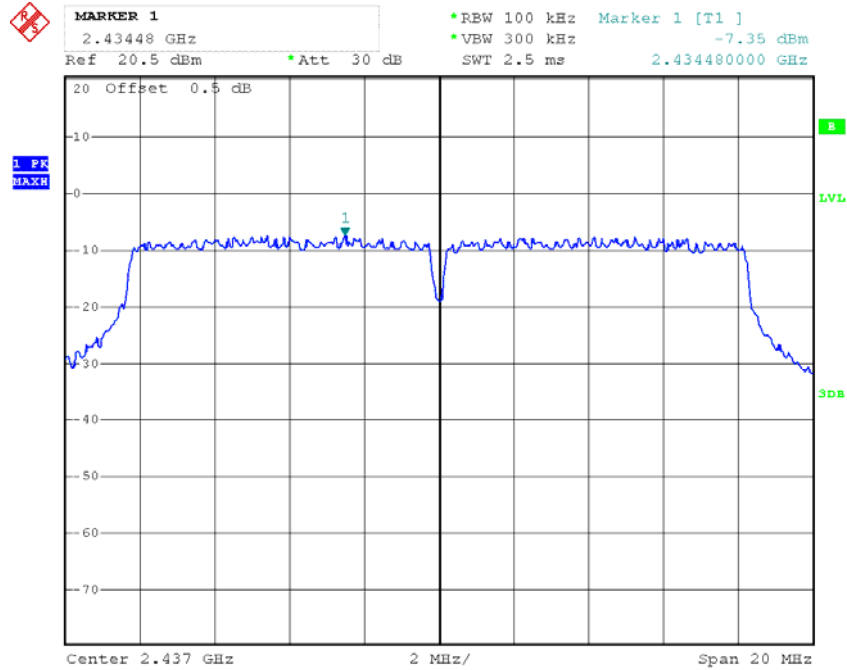
Power Spectral Density, 802.11b High Channel



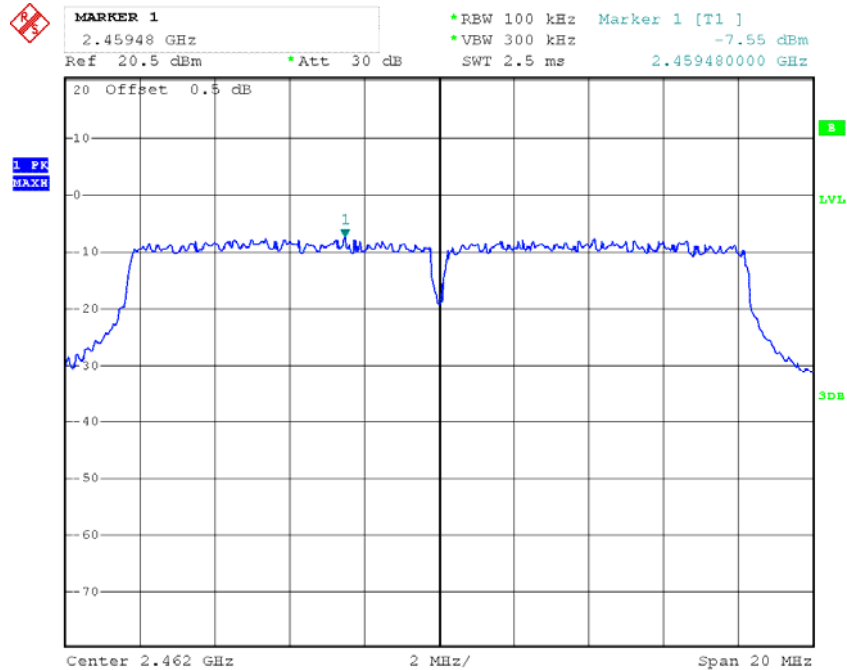
Power Spectral Density, 802.11g Low Channel



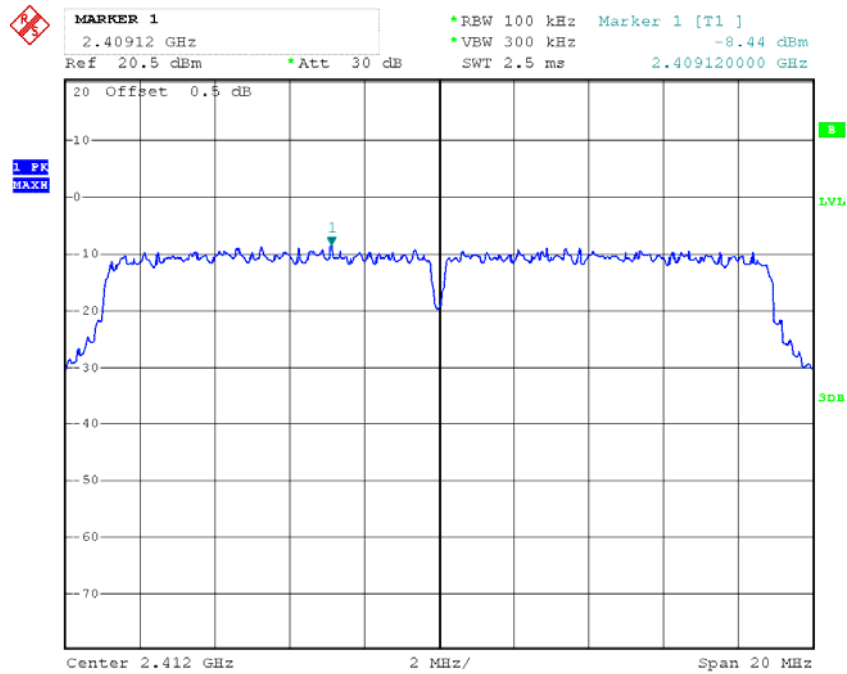
Power Spectral Density, 802.11g Middle Channel



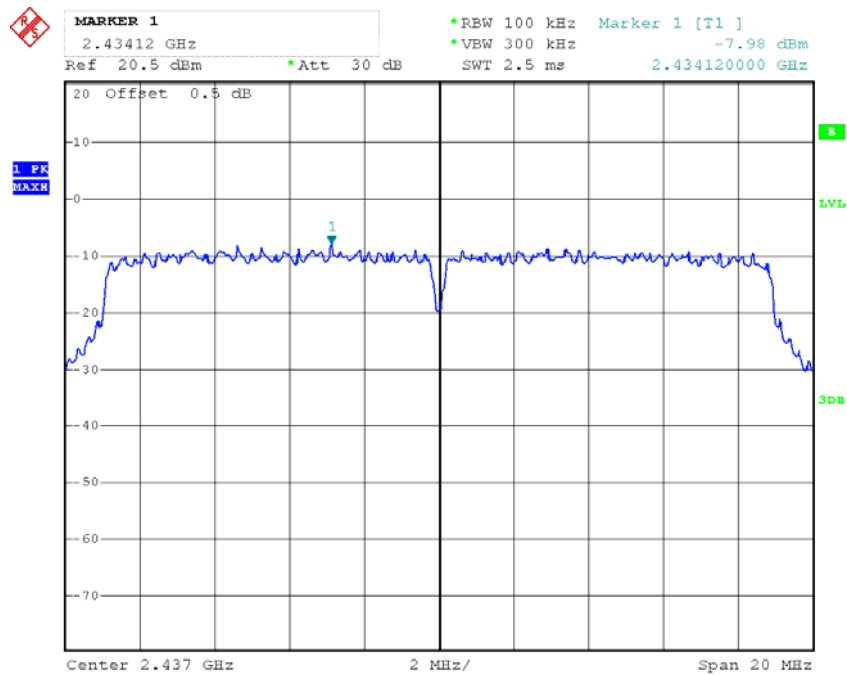
Power Spectral Density, 802.11g High Channel



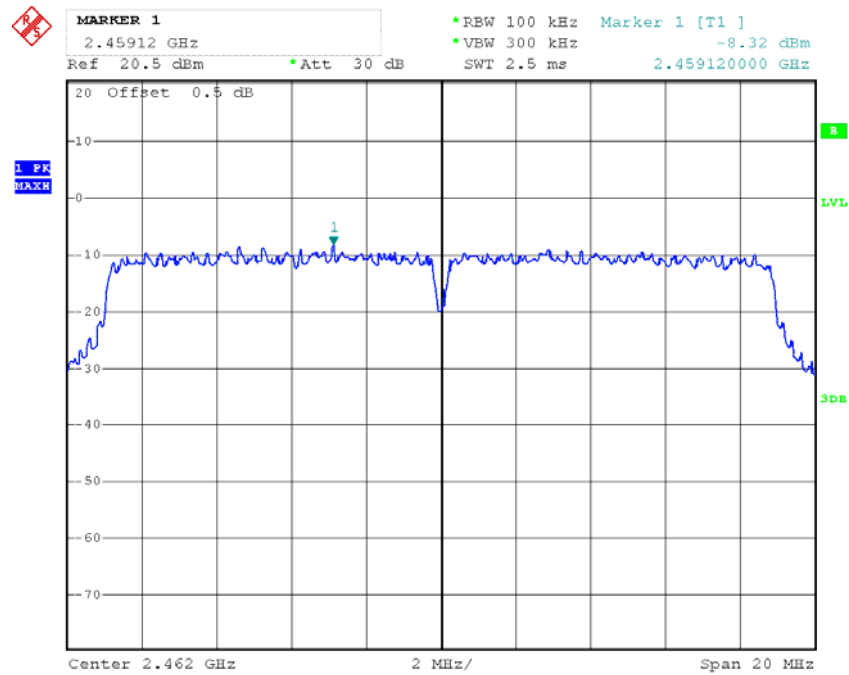
Power Spectral Density, 802.11n20 Low Channel



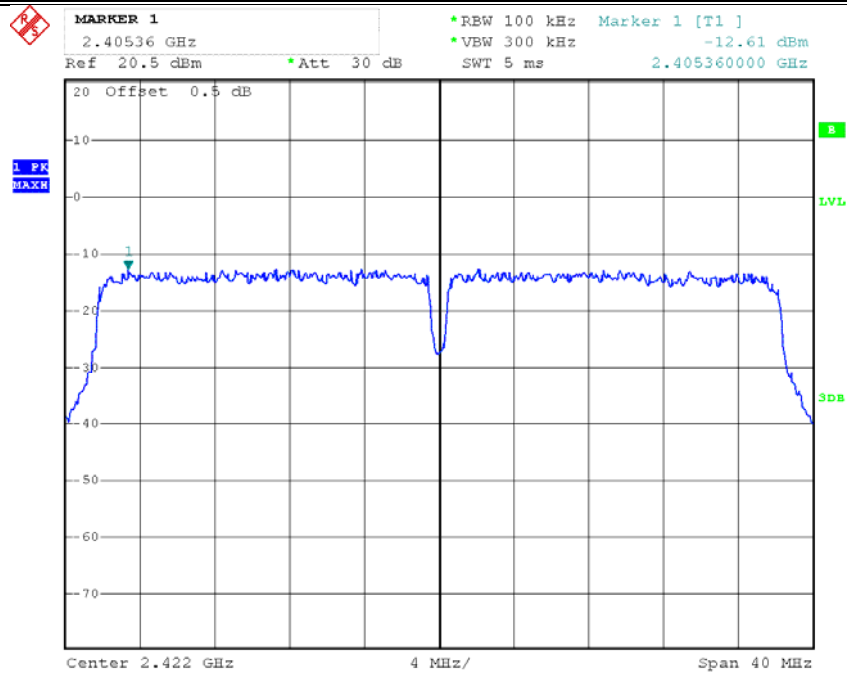
Power Spectral Density, 802.11n20 Middle Channel



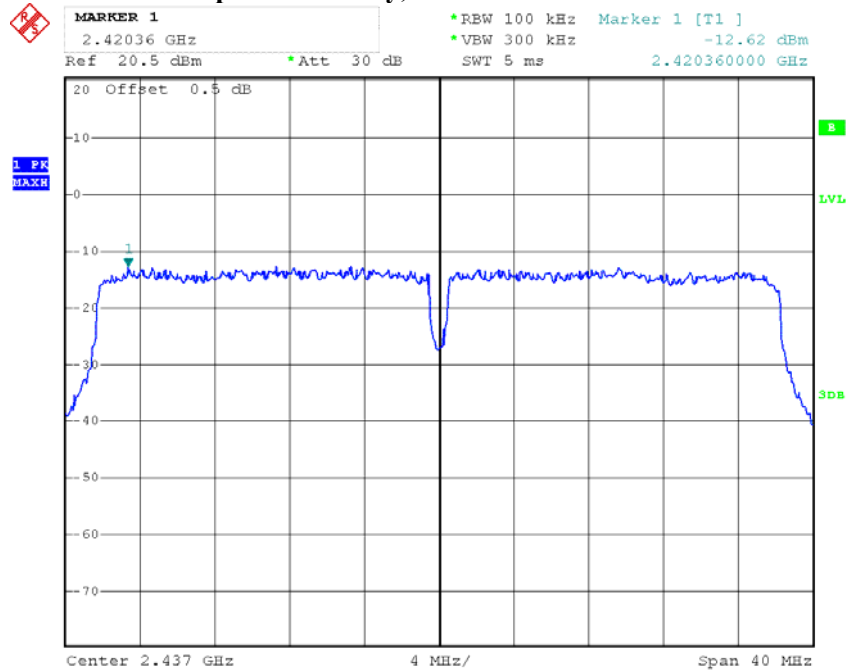
Power Spectral Density, 802.11n20 High Channel



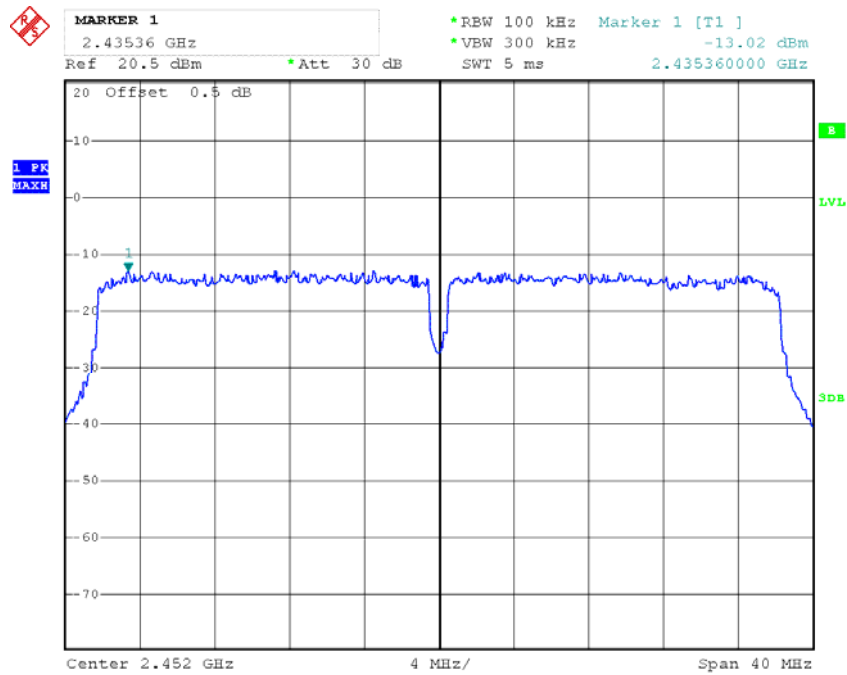
Power Spectral Density, 802.11n40 Low Channel



Power Spectral Density, 802.11n40 Middle Channel



Power Spectral Density, 802.11n40 High Channel



DECLARATION LETTER



Coby Communications Ltd.

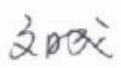
Add: Unit C-E, 8/F, PO Shau Centre, 115 How Ming Street, Kwun Tong Kowloon, Hong Kong
Tel: 85227595838
Fax: 85227595887

Product Similarity Declaration

To Whom It May Concern,

We, Coby Communications Ltd., hereby declare that our Mobile Internet Device, Model Number: MID7034 is electrically identical with the Model Number: MID7036 that was certified by BACL. The only difference is the touch panel: MID7034 is resistive touch panel; MID7036 is capacitive touch panel.
The rest are the same.

Please contact me if you have any question.

Signature: 

Print Name: Richeng Wen

Title: Engineer

Date: 2012-6-1

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