



FCC PART 15.247

TEST REPORT

For

**YEALINK (XIAMEN) NETWORK TECHNOLOGY
CO., LTD.**

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FCC ID: T2CWIFI40

Report Type: Original Report	Product Type: WI-FI USB Dongle
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Report Number: <u>RSZ150701006-00</u>	
Report Date: <u>2015-07-30</u>	
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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *YEALINK (XIAMEN) NETWORK TECHNOLOGY CO., LTD.*'s product, model number: *WF40 (FCC ID: T2CWIFI40)* or the "EUT" in this report was a WI-FI USB Dongle, which was measured approximately: 2.69 cm (L) × 1.8cm (W) × 0.8 cm (H), rated input voltage: DC 5.0V from USB port.

**All measurement and test data in this report was gathered from production sample serial number: 1505598. (Assigned by BACL, Shenzhen).The EUT supplied by the applicant was received on 20150-07-01.*

Objective

This Type approval report is prepared on behalf of *YEALINK (XIAMEN) NETWORK TECHNOLOGY CO., LTD.* in accordance with Part 2- Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

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

Related Submittal(s)/Grant(s)

N/A

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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

Test Facility

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

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSIC63.10-2013.

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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g and 802.11n-HT20 mode, 13 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

EUT was tested with Channel 1, 7 and 13.

For 802.11n-HT40 mode, 9 channels are provided to testing:

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

EUT was tested with Channel 1, 5 and 9.

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

EUT Exercise Software

Software : MTK7601

The test was performed under:

802.11b: Data rate: 1 Mbps, power level: 9

802.11g: Data rate: 6 Mbps, power level: 9

802.11n-HT20: Data rate: MCS0 (20M), power level: 8.5

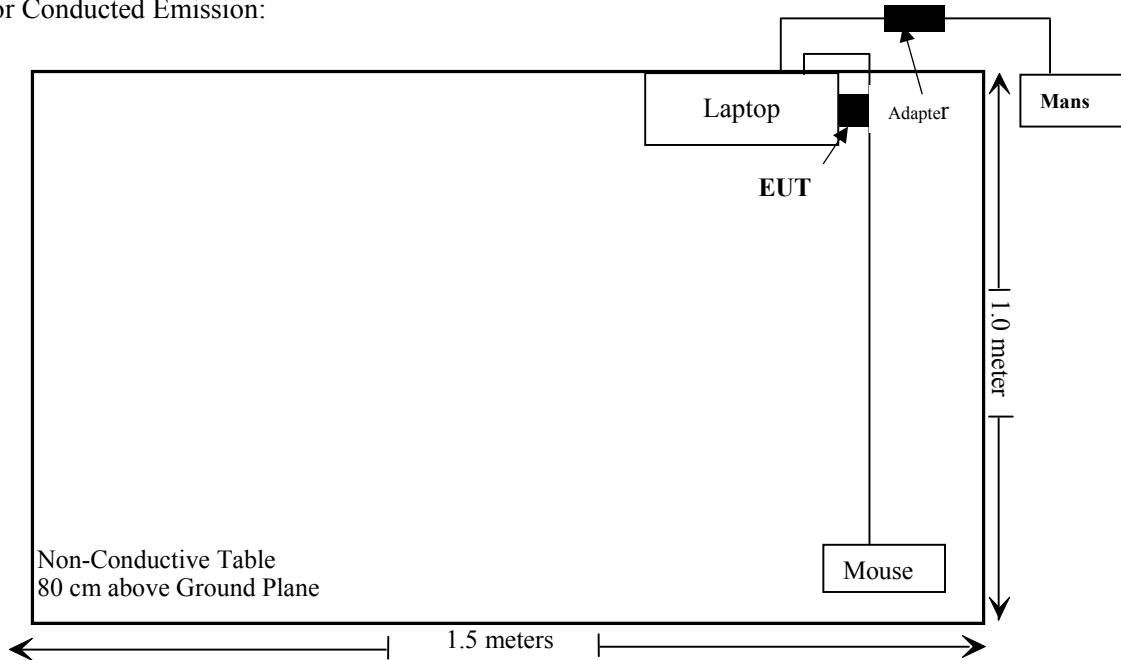
802.11n-HT40: Data rate: MCS0 (40M), power level: 8.5

Equipment Modifications

No modification was made to the EUT tested.

Block Diagram of Test Setup

For Conducted Emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b)(1), §2.1093	RF EXPOSURE	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a),	Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Bandwidth	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance
§15.247(d)	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**

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

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

The Max Peak Output Power: $8.78\text{dBm}=7.55\text{mW}$

$(7.55/5) * \sqrt{2.472} = 2.37 < 3.0$

Result: No SAR test is required

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.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

This product has PIFA antenna connectors which maximum antenna gain is 1.0 dBi, fulfill the requirement of this section, and please refer to the EUT photo.

Result: Compliance.

FCC §15.207 (a) - CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

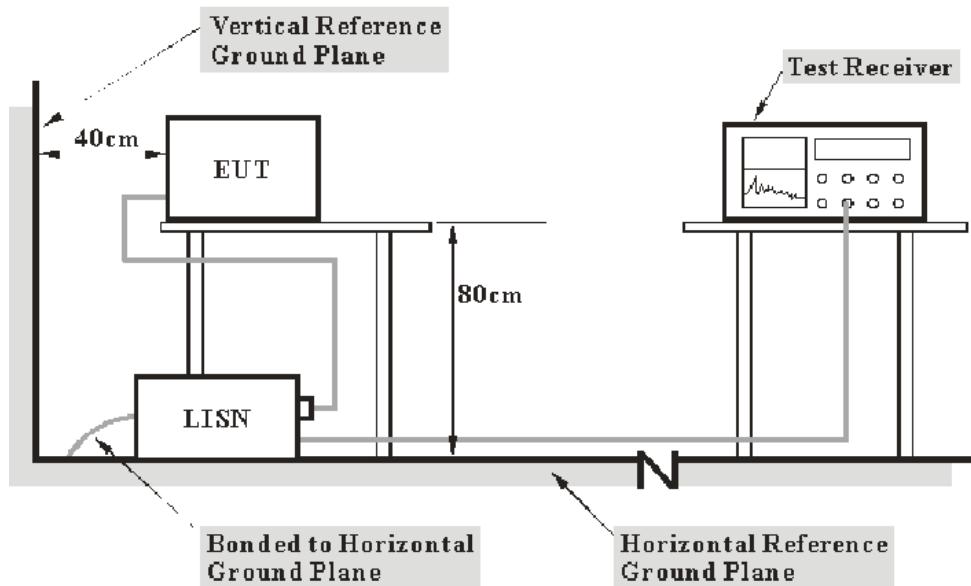
Measurement Uncertainty

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

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

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

EUT Setup



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

The setup of EUT is according with per ANSIC63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The Note Book PC 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 relevant 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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2015-06-03	2016-06-03
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2014-12-01	2015-12-01
Rohde & Schwarz	LISN	ESH2-Z5	892107/021	2015-06-09	2016-06-09
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2015-05-14	2016-05-13
Rohde & Schwarz	CE Test software	EMC 32	V8.53	NCR	NCR

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

Test Results Summary

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

16.3dB at 7.533290 MHz in the Line conductor mode

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

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

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

Test Data

Environmental Conditions

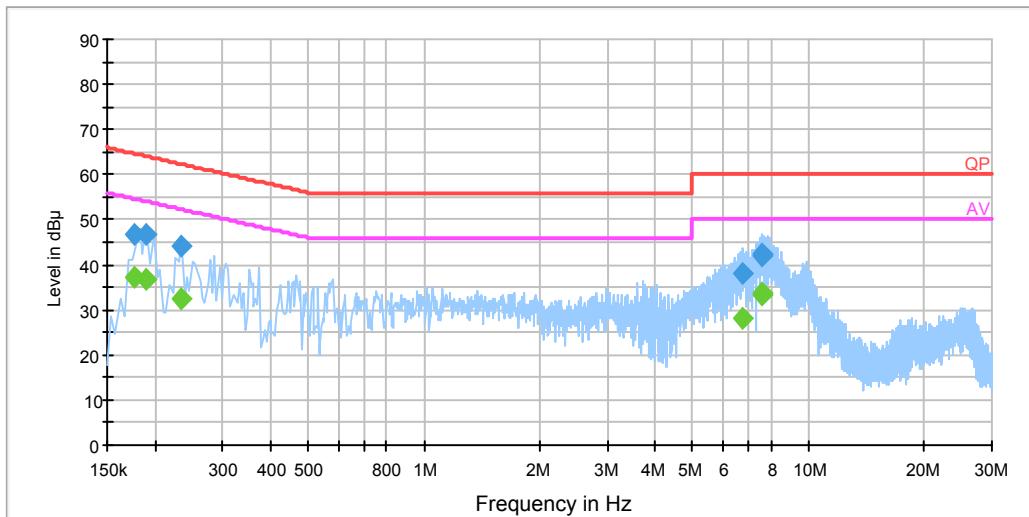
Temperature:	26
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Simon Wang on 2015-07-30.

Test Mode: Transmitting

AC 120 V, 60 Hz, Line:

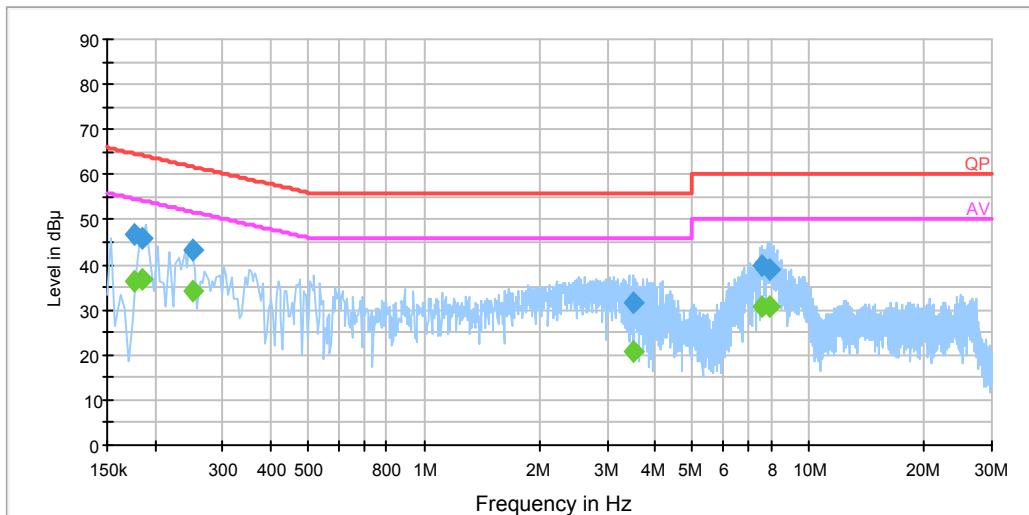
EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dB μ V)	Correction Factor (dB)	Limit (dB μ V)	Margin (dB)	Detector (PK/QP/Ave.)
0.177500	46.7	20.0	64.6	17.9	QP
0.177500	37.4	20.0	54.6	17.2	Ave.
0.189500	46.9	20.0	64.1	17.2	QP
0.189500	36.7	20.0	54.1	17.3	Ave.
0.233500	44.0	20.0	62.3	18.3	QP
0.233500	32.5	20.0	52.3	19.8	Ave.
6.696390	38.0	20.0	60.0	22.0	QP
6.696390	28.1	20.0	50.0	21.9	Ave.
7.533290	42.0	20.1	60.0	18.0	QP
7.533290	33.7	20.1	50.0	16.3	Ave.
7.552390	42.2	20.1	60.0	17.8	QP
7.552390	33.2	20.1	50.0	16.8	Ave.

AC 120V, 60 Hz, Neutral:

EMI Auto Test N



Frequency (MHz)	Corrected Amplitude (dB μ V)	Correction Factor (dB)	Limit (dB μ V)	Margin (dB)	Detector (PK/QP/Ave.)
0.177500	46.7	20.0	64.6	17.9	QP
0.177500	36.5	20.0	54.6	18.1	Ave.
0.185500	45.8	20.0	64.2	18.4	QP
0.185500	36.8	20.0	54.2	17.4	Ave.
0.249500	43.3	20.0	61.8	18.5	QP
0.249500	34.1	20.0	51.8	17.7	Ave.
3.485410	31.4	20.0	56.0	24.6	QP
3.485410	20.6	20.0	46.0	25.4	Ave.
7.529710	39.9	20.1	60.0	20.1	QP
7.529710	30.9	20.1	50.0	19.1	Ave.
7.962750	39.1	20.1	60.0	20.9	QP
7.962750	30.6	20.1	50.0	19.4	Ave.

Note:

- 1) Corrected Amplitude = Reading + Correction Factor
- 2) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss
- 3) Margin = Limit – Corrected Amplitude

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

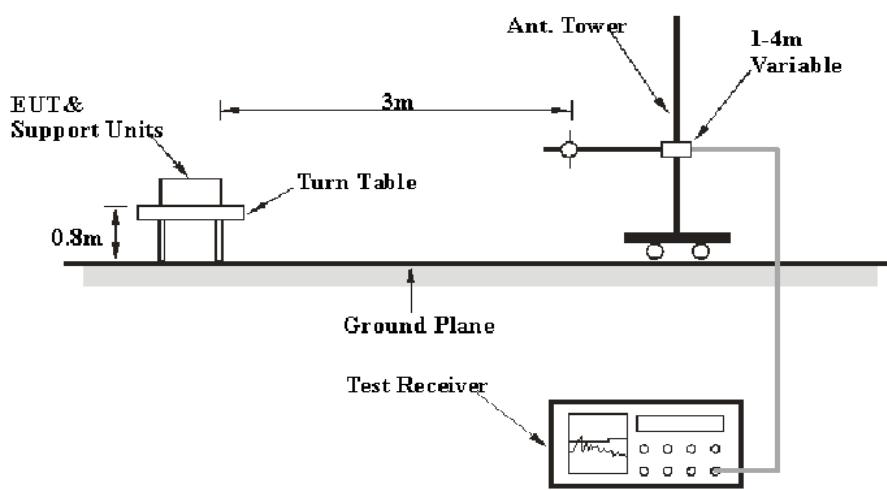
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency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

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

Frequency	Polarity	Measurement uncertainty
30MHz~200MHz	Horizontal	4.62 dB (k=2, 95% level of confidence)
	Vertical	4.54 dB (k=2, 95% level of confidence)
200MHz~1GHz	Horizontal	4.84 dB (k=2, 95% level of confidence)
	Vertical	5.91 dB (k=2, 95% level of confidence)
1 GHz~6 GHz	Horizontal / Vertical	4.68 dB (k=2, 95% level of confidence)
Above 6 GHz	Horizontal / Vertical	4.92 dB (k=2, 95% level of confidence)

EUT Setup

below 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSIC63.10-2013. 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 Note Book PC 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
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	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 outlet of the first LISN, and the other relevant equipments were connected to the outlet of the second LISN.

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2015-05-06	2016-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2014-09-25	2015-09-25
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2012-11-28	2015-11-27
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2015-04-23	2016-04-23
Sunol Sciences	Horn Antenna	DRH-118	A052304	2012-12-01	2015-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-11-12	2015-11-12
DUCOMMUN	Pre-amplifier	ALN-22093530-01	991373-01	2014-08-03	2015-08-03
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
TDK	Chamber	Chamber A	2#	2012-10-15	2015-10-15
TDK	Chamber	Chamber B	1#	2013-07-23	2016-07-23

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

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 Results Summary

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

0.44 dB at 2483.5 MHz in the Horizontal polarization for 802.11n-HT20 mode

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

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

In our lab., $U_{(Lm)}$ is less than $+ U_{\text{cisp}}$, if L_m is less than L_{\lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

Temperature:	26
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2015-07-30.

Test Mode: Transmitting

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

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel (2412 MHz)									
256.7	43.4	QP	152	1.1	H	-13.8	29.6	46	16.4
2412.00	93.86	PK	346	2.2	H	4.97	98.83	/	/
2412.00	85.89	Ave.	346	2.2	H	4.97	90.86	/	/
2412.00	92.18	PK	296	2.2	V	4.97	97.15	/	/
2412.00	83.51	Ave.	296	2.2	V	4.97	88.48	/	/
2383.11	39.41	PK	256	1.5	H	4.97	44.38	74	29.62
2383.11	23.55	Ave.	256	1.5	H	4.97	28.52	54	25.48
2386.79	39.65	PK	302	1.4	H	4.97	44.62	74	29.38
2386.79	22.86	Ave.	302	1.4	H	4.97	27.83	54	26.17
2493.72	37.08	PK	321	1.2	H	6.29	43.37	74	30.63
2493.72	21.18	Ave.	321	1.2	H	6.29	27.47	54	26.53
4824	39.12	PK	86	1.2	H	18.31	57.43	74	16.57
4824	23.45	Ave.	86	1.2	H	18.31	41.76	54	12.24
7236	38.96	PK	222	2.2	H	22.28	61.24	74	12.76
7236	22.67	Ave.	222	2.2	H	22.28	44.95	54	9.05
9648	37.25	PK	288	1.7	H	25.02	62.27	74	11.73
9648	20.40	Ave.	288	1.7	H	25.02	45.42	54	8.58
Middle Channel (2442 MHz)									
256.7	43.32	QP	152	1.1	H	-13.8	29.52	46	16.48
2442.00	93.29	PK	204	1.3	H	4.97	98.26	/	/
2442.00	84.88	Ave.	204	1.3	H	4.97	89.85	/	/
2442.00	93.73	PK	160	1.0	V	4.97	98.70	/	/
2442.00	85.23	Ave.	160	1.0	V	4.97	90.20	/	/
2389.04	41.05	PK	112	1.4	V	4.97	46.02	74	27.98
2389.04	23.71	Ave.	112	1.4	V	4.97	28.68	54	25.32
2494.44	42.57	PK	69	1.6	V	6.29	48.86	74	25.14
2494.44	19.51	Ave.	69	1.6	V	6.29	25.80	54	28.20
2497.98	43.47	PK	309	1.2	V	6.29	49.76	74	24.24
2497.98	19.53	Ave.	309	1.2	V	6.29	25.82	54	28.18
4884	39.64	PK	215	2.2	H	19.21	58.85	74	15.15
4884	23.94	Ave.	215	2.2	H	19.21	43.15	54	10.85
7326	38.31	PK	36	1.9	V	22.60	60.91	74	13.09
7326	22.33	Ave.	36	1.9	V	22.60	44.93	54	9.07
9768	36.87	PK	234	1.3	H	26.09	62.96	74	11.04
9768	20.36	Ave.	234	1.3	H	26.09	46.45	54	7.55

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
High Channel (2472 MHz)									
256.7	43.04	QP	152	1.1	H	-13.8	29.24	46	16.76
2472.00	92.73	PK	128	1.3	H	6.29	99.02	/	/
2472.00	84.65	Ave.	128	1.3	H	6.29	90.94	/	/
2472.00	94.44	PK	187	1.9	V	6.29	100.73	/	/
2472.00	86.24	Ave.	187	1.9	V	6.29	92.53	/	/
2387.27	36.64	PK	121	2.3	V	4.97	41.61	74	32.39
2387.27	21.43	Ave.	121	2.3	V	4.97	26.40	54	27.60
2483.69	50.49	PK	25	2.5	V	6.29	56.78	74	17.22
2483.69	38.64	Ave.	25	2.5	V	6.29	44.93	54	9.07
2484.06	49.94	PK	203	2.3	V	6.29	56.23	74	17.77
2484.06	36.55	Ave.	203	2.3	V	6.29	42.84	54	11.16
4944.0	40.13	PK	146	1.7	H	19.61	59.74	74	14.26
4944.0	24.15	Ave.	146	1.7	H	19.61	43.76	54	10.24
7416.0	38.13	PK	134	1.6	V	21.54	59.67	74	14.33
7416.0	23.56	Ave.	134	1.6	V	21.54	45.10	54	8.90
9888.0	36.77	PK	287	1.1	V	26.29	63.06	74	10.94
9888.0	21.34	Ave.	287	1.1	V	26.29	47.63	54	6.37

802.11g Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel (2412 MHz)									
256.7	43.15	QP	152	1.1	H	-13.8	29.35	46	16.65
2412.00	95.79	PK	190	1.1	H	4.97	100.76	/	/
2412.00	80.01	Ave.	190	1.1	H	4.97	84.98	/	/
2412.00	97.68	PK	49	1.4	V	4.97	102.65	/	/
2412.00	82.87	Ave.	49	1.4	V	4.97	87.84	/	/
2386.95	55.85	PK	104	2.3	V	4.97	60.82	74	13.18
2386.95	37.46	Ave.	104	2.3	V	4.97	42.43	54	11.57
2389.52	62.81	PK	70	1.5	V	4.97	67.78	74	6.22
2389.52	38.67	Ave.	70	1.5	V	4.97	43.64	54	10.36
2499.57	40.29	PK	223	1.4	V	6.29	46.58	74	27.42
2499.57	25.41	Ave.	223	1.4	V	6.29	31.70	54	22.30
4824	38.85	PK	319	1.9	V	18.51	57.36	74	16.64
4824	23.41	Ave.	319	1.9	V	18.51	41.92	54	12.08
7236	37.69	PK	19	1.9	V	22.28	59.97	74	14.03
7236	21.74	Ave.	19	1.9	V	22.28	44.02	54	9.98
9648	36.18	PK	250	2.4	H	25.02	61.20	74	12.80
9648	20.83	Ave.	250	2.4	H	25.02	45.85	54	8.15
4824	38.85	PK	319	1.9	V	18.51	57.36	74	16.64
Middle Channel(2442MHz)									
256.7	43.04	QP	152	1.1	H	-13.8	29.24	46	16.76
2442.00	95.26	PK	32	1.8	H	4.97	100.23	/	/
2442.00	79.81	Ave.	32	1.8	H	4.97	84.78	/	/
2442.00	98.45	PK	31	2.1	V	4.97	103.42	/	/
2442.00	82.85	Ave.	31	2.1	V	4.97	87.82	/	/
2385.83	40.36	PK	277	1.5	V	4.97	45.33	74	28.67
2385.83	25.52	Ave.	277	1.5	V	4.97	30.49	54	23.51
2493.92	39.31	PK	40	2.0	V	6.29	45.60	74	28.40
2493.92	21.43	Ave.	40	2.0	V	6.29	27.72	54	26.28
2494.41	39.35	PK	177	1.2	V	6.29	45.64	74	28.36
2494.41	22.26	Ave.	177	1.2	V	6.29	28.55	54	25.45
4884	38.78	PK	354	1.3	H	19.21	57.99	74	16.01
4884	22.6	Ave.	354	1.3	H	19.21	41.81	54	12.19
7326	37.91	PK	325	2.2	V	22.60	60.51	74	13.49
7326	21.72	Ave.	325	2.2	V	22.60	44.32	54	9.68
9768	36.69	PK	191	1.1	H	26.09	62.78	74	11.22
9768	20.83	Ave.	191	1.1	H	26.09	46.92	54	7.08

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
High Channel(2472 MHz)									
256.7	42.88	QP	152	1.1	H	-13.8	29.08	46	16.92
2472.00	94.24	PK	340	1.9	H	6.29	100.53	/	/
2472.00	78.75	Ave.	340	1.9	H	6.29	85.04	/	/
2472.00	99.35	PK	226	1.4	V	6.29	105.64	/	/
2472.00	84.03	Ave.	226	1.4	V	6.29	90.32	/	/
2373.68	40.81	PK	114	2.3	V	4.97	45.78	74	28.22
2373.68	24.96	Ave.	114	2.3	V	4.97	29.93	54	24.07
2483.79	64.56	PK	308	1.6	H	7.99	72.55	74	1.45
2483.79	40.60	Ave.	308	1.6	H	7.99	48.59	54	5.41
2484.13	64.22	PK	323	1.1	H	7.99	72.21	74	1.79
2484.13	39.91	Ave.	323	1.1	H	7.99	47.90	54	6.10
4944.0	40.08	PK	233	1.6	V	19.41	59.49	74	14.51
4944.0	23.92	Ave.	233	1.6	V	19.41	43.33	54	10.67
7416.0	39.02	PK	118	2.2	V	21.54	60.56	74	13.44
7416.0	22.30	Ave.	118	2.2	V	21.54	43.84	54	10.16
9888.0	37.33	PK	116	2.4	H	26.09	63.42	74	10.58
9888.0	20.63	Ave.	116	2.4	H	26.09	46.72	54	7.28

802.11n-HT20 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel(2412MHz)									
256.7	43.01	QP	152	1.1	H	-13.8	29.21	46	16.79
2412.00	94.31	PK	215	1.7	H	4.97	99.28	/	/
2412.00	78.97	Ave.	215	1.7	H	4.97	83.94	/	/
2412.00	98.03	PK	202	1.6	V	4.97	103.00	/	/
2412.00	82.94	Ave.	202	1.6	V	4.97	87.91	/	/
2387.56	66.52	PK	287	2.0	V	4.97	71.49	74	2.51
2387.56	37.46	Ave.	287	2.0	V	4.97	42.43	54	11.57
2388.56	67.73	PK	216	2.2	V	4.97	72.70	74	1.30
2388.56	38.06	Ave.	216	2.2	V	4.97	43.03	54	10.97
2499.57	42.03	PK	346	1.6	V	6.29	48.32	74	25.68
2499.57	21.03	Ave.	346	1.6	V	6.29	27.32	54	26.68
4824	39.90	PK	201	1.7	V	18.51	58.41	74	15.59
4824	22.74	Ave.	201	1.7	V	18.51	41.25	54	12.75
7236	37.56	PK	151	1.1	V	22.28	59.84	74	14.16
7236	21.68	Ave.	151	1.1	V	22.28	43.96	54	10.04
9648	36.15	PK	128	1.1	H	25.02	61.17	74	12.83
9648	20.24	Ave.	128	1.1	H	25.02	45.26	54	8.74
Middle Channel(2442MHz)									
256.7	43.04	QP	152	1.1	H	-13.8	29.24	46	16.76
2442.00	93.85	PK	105	2.3	H	4.97	98.82	/	/
2442.00	78.45	Ave.	105	2.3	H	4.97	83.42	/	/
2442.00	97.90	PK	333	2.0	V	4.97	102.87	/	/
2442.00	83.13	Ave.	333	2.0	V	4.97	88.10	/	/
2387.56	42.12	PK	240	1.2	V	4.97	47.09	74	26.91
2387.56	24.36	Ave.	240	1.2	V	4.97	29.33	54	24.67
2489.45	44.89	PK	180	1.3	V	6.29	51.18	74	22.82
2489.45	23.02	Ave.	180	1.3	V	6.29	29.31	54	24.69
2497.52	44.26	PK	38	2.2	V	6.29	50.55	74	23.45
2497.52	22.26	Ave.	38	2.2	V	6.29	28.55	54	25.45
4884	39.58	PK	67	1.8	H	19.21	58.79	74	15.21
4884	23.14	Ave.	67	1.8	H	19.21	42.35	54	11.65
7326	38.10	PK	334	2.3	V	22.60	60.70	74	13.30
7326	21.30	Ave.	334	2.3	V	22.60	43.90	54	10.10
9768	36.21	PK	292	1.5	H	26.09	62.30	74	11.70
9768	20.20	Ave.	292	1.5	H	26.09	46.29	54	7.71

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
High Channel (2472 MHz)									
256.7	42.97	QP	152	1.1	H	-13.8	29.17	46	16.83
2472.00	94.97	PK	252	1.5	H	6.29	101.26	/	/
2472.00	78.06	Ave.	252	1.5	H	6.29	84.35	/	/
2472.00	98.75	PK	52	2.1	V	6.29	105.04	/	/
2472.00	83.62	Ave.	52	2.1	V	6.29	89.91	/	/
2386.63	38.99	PK	113	2.1	V	4.97	43.96	74	30.04
2386.63	24.36	Ave.	113	2.1	V	4.97	29.33	54	24.67
2483.5	65.57	PK	242	1.3	H	7.99	73.56	74	0.44
2483.5	40.19	Ave.	242	1.3	H	7.99	48.18	54	5.82
2484.46	65.23	PK	151	1.2	H	7.99	73.22	74	0.78
2484.46	44.72	Ave.	151	1.2	H	7.99	52.71	54	1.29
4924.00	40.33	PK	184	1.7	V	19.41	59.74	74	14.26
4924.00	24.82	Ave.	184	1.7	V	19.41	44.23	54	9.77
7416.0	39.06	PK	74	1.5	V	21.54	60.60	74	13.40
7416.0	23.68	Ave.	74	1.5	V	21.54	45.22	54	8.78
9888.0	37.29	PK	55	1.5	H	26.09	63.38	74	10.62
9888.0	21.25	Ave.	55	1.5	H	26.09	47.34	54	6.66

802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel(2422MHz)									
256.7	43.1	QP	152	1.1	H	-13.8	29.3	46	16.7
2422.00	93.49	PK	52	2.5	H	4.97	98.46	/	/
2422.00	75.49	Ave.	52	2.5	H	4.97	80.46	/	/
2422.00	96.33	PK	113	1.0	V	4.97	101.30	/	/
2422.00	79.47	Ave.	113	1.0	V	4.97	84.44	/	/
2384.55	66.55	PK	123	2.1	V	4.97	71.52	74	2.48
2384.55	41.80	Ave.	123	2.1	V	4.97	46.77	54	7.23
2387.43	68.41	PK	113	2.1	V	4.97	73.38	74	0.62
2387.43	43.26	Ave.	113	2.1	V	4.97	48.23	54	5.77
2484.29	44.59	PK	239	1.8	V	6.29	50.88	74	23.12
2484.29	26.81	Ave.	239	1.8	V	6.29	33.10	54	20.90
4824	38.86	PK	107	2.4	H	18.31	57.17	74	16.83
4824	23.11	Ave.	107	2.4	H	18.31	41.42	54	12.58
7236	37.53	PK	123	1.8	V	22.28	59.81	74	14.19
7236	22.14	Ave.	123	1.8	V	22.28	44.42	54	9.58
9648	36.48	PK	49	2.0	V	25.22	61.70	74	12.30
9648	20.08	Ave.	49	2.0	V	25.22	45.30	54	8.70
Middle Channel(2442MHz)									
256.7	43.07	QP	152	1.1	H	-13.8	29.27	46	16.73
2442	92.01	PK	21	1.7	H	4.97	96.98	/	/
2442	75.36	Ave.	21	1.7	H	4.97	80.33	/	/
2442	97.51	PK	212	1.4	V	4.97	102.48	/	/
2442	79.76	Ave.	212	1.4	V	4.97	84.73	/	/
2386.79	56.79	PK	304	1.5	V	4.97	61.76	74	12.24
2386.79	32.26	Ave.	304	1.5	V	4.97	37.23	54	16.77
2389.84	58.47	PK	122	1.7	V	4.97	63.44	74	10.56
2389.84	34.96	Ave.	122	1.7	V	4.97	39.93	54	14.07
2483.93	53.58	PK	115	2.1	V	6.29	59.87	74	14.13
2483.93	30.52	Ave.	115	2.1	V	6.29	36.81	54	17.19
4874.00	40.02	PK	128	1.6	H	19.21	59.23	74	14.77
4874.00	24.15	Ave.	128	1.6	H	19.21	43.36	54	10.64
7311.0	38.96	PK	132	1.2	H	22.60	61.56	74	12.44
7311.0	23.4	Ave.	132	1.2	H	22.60	46.00	54	8.00
9748.0	37.18	PK	142	1.3	H	26.09	63.27	74	10.73
9748.0	21.01	Ave.	142	1.3	H	26.09	47.10	54	6.90

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
High Channel(2462 MHz)									
256.7	42.84	QP	152	1.1	H	-13.8	29.04	46	16.96
2462.00	93.27	PK	114	1.1	H	6.29	99.56	/	/
2462.00	75.88	Ave.	114	1.1	H	6.29	82.17	/	/
2462.00	98.11	PK	45	1.9	V	6.29	104.40	/	/
2462.00	81.13	Ave.	45	1.9	V	6.29	87.42	/	/
2386.47	46.41	PK	26	1.9	V	4.97	51.38	74	22.62
2386.47	25.52	Ave.	26	1.9	V	4.97	30.49	54	23.51
2483.50	67.22	PK	183	2.1	V	6.29	73.51	74	0.49
2483.50	44.49	Ave.	183	2.1	V	6.29	50.78	54	3.22
2484.76	65.28	PK	280	1.2	V	6.29	71.57	74	2.43
2484.76	42.43	Ave.	280	1.2	V	6.29	48.72	54	5.28
4904.00	39.78	PK	8	1.7	H	19.61	59.39	74	14.61
4904.00	22.73	Ave.	8	1.7	H	19.61	42.34	54	11.66
7386.0	37.01	PK	297	2.3	H	21.54	58.55	74	15.45
7386.0	22.19	Ave.	297	2.3	H	21.54	43.73	54	10.27
9848.0	36.64	PK	34	2.0	H	26.09	62.73	74	11.27
9848.0	20.62	Ave.	34	2.0	H	26.09	46.71	54	7.29

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable loss – Amplifier Factor

Margin = Limit - Corrected Amplitude

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

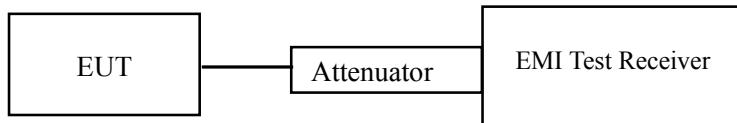
Applicable Standard

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

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r03

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	ESR	1316.3003K03-101746-zn	2015-06-13	2016-06-13

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

Test Data

Environmental Conditions

Temperature:	26
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

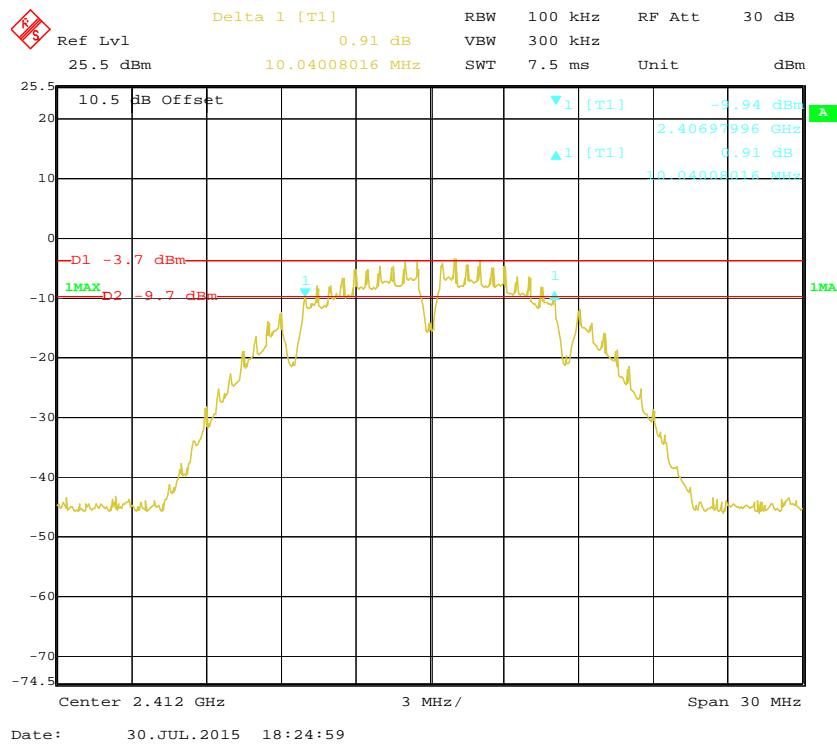
The testing was performed by Simon Wang on 2015-07-30.

Test Mode: Transmitting

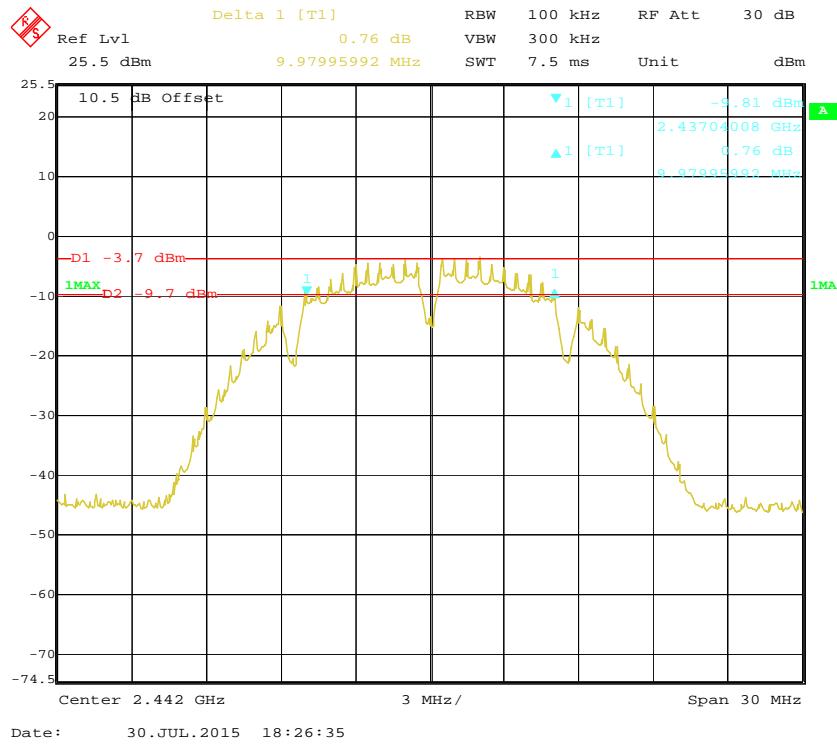
Test Result: Pass.

Please refer to the following tables and plots.

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)	Result
802.11b mode				
Low	2412	10.04	≥ 500	Pass
Middle	2442	10.00	≥ 500	Pass
High	2472	10.04	≥ 500	Pass
802.11g mode				
Low	2412	16.29	≥ 500	Pass
Middle	2442	16.41	≥ 500	Pass
High	2472	16.47	≥ 500	Pass
802.11n-HT20 mode				
Low	2412	17.68	≥ 500	Pass
Middle	2442	17.68	≥ 500	Pass
High	2472	17.68	≥ 500	Pass
802.11n-HT40 mode				
Low	2422	36.19	≥ 500	Pass
Middle	2442	36.19	≥ 500	Pass
High	2462	36.43	≥ 500	Pass

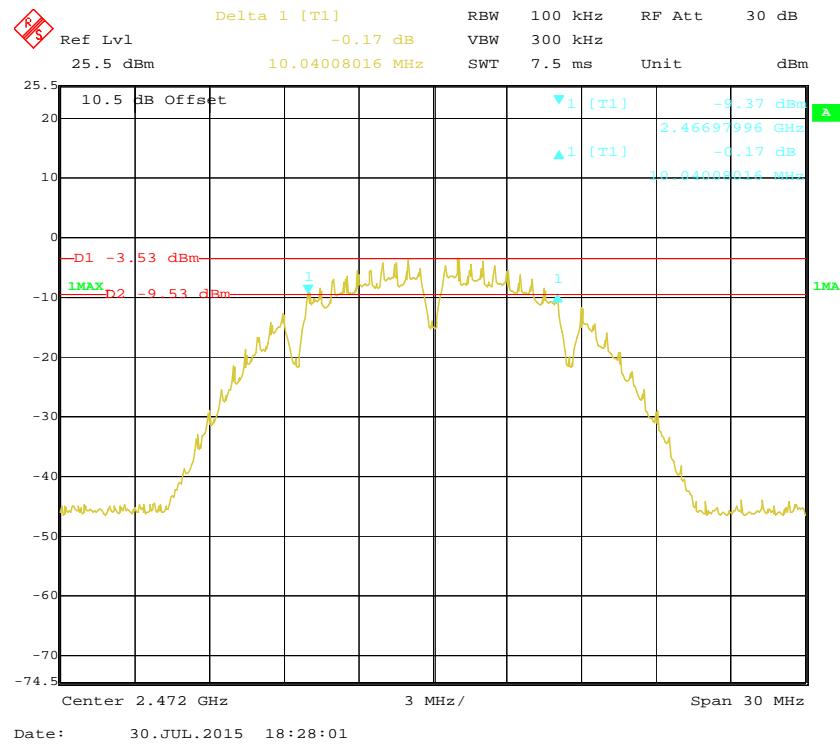
802.11b Low Channel,

Date: 30.JUL.2015 18:24:59

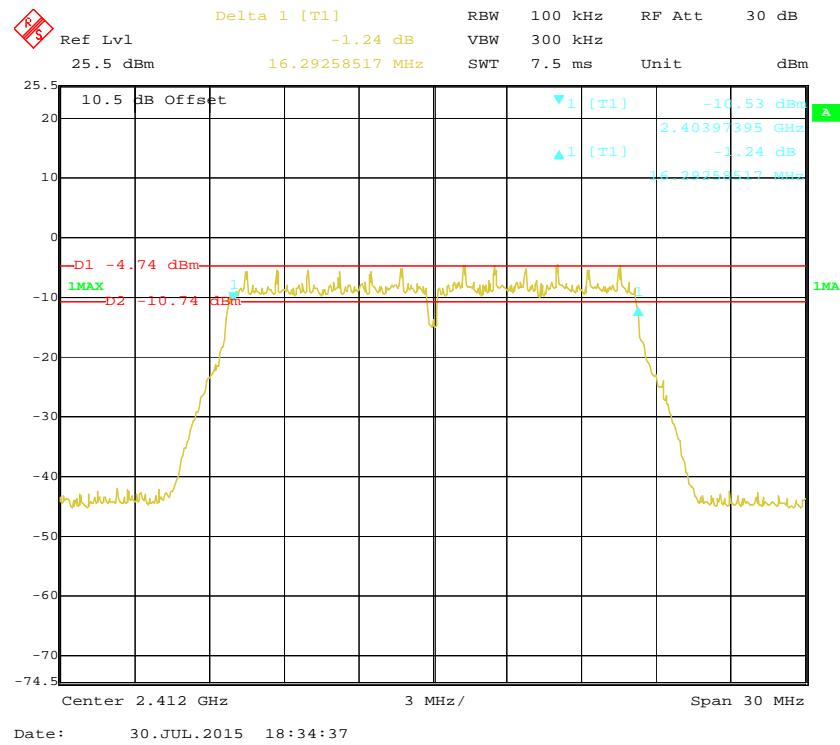
802.11b Middle Channel,

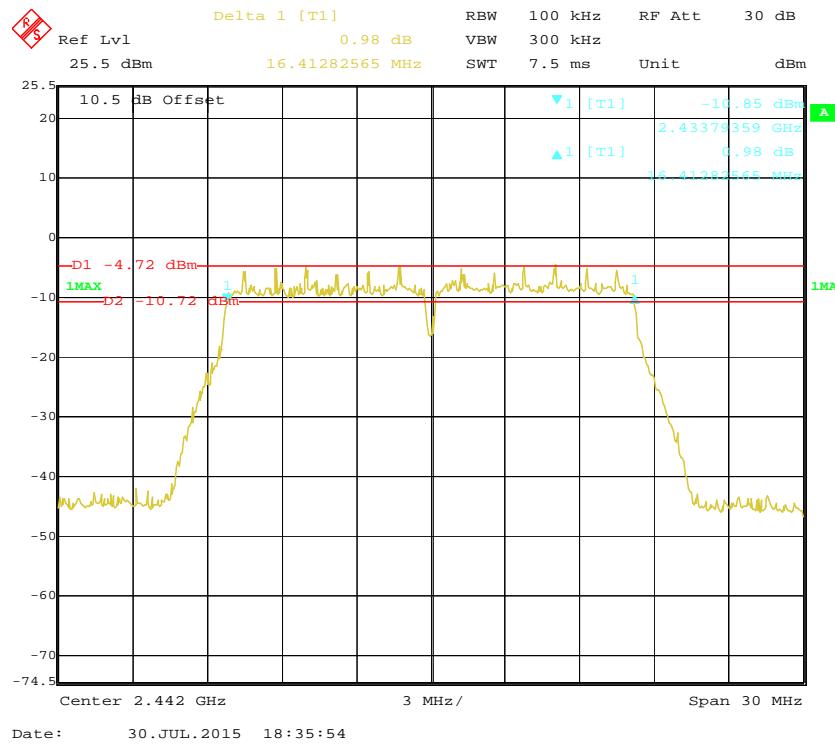
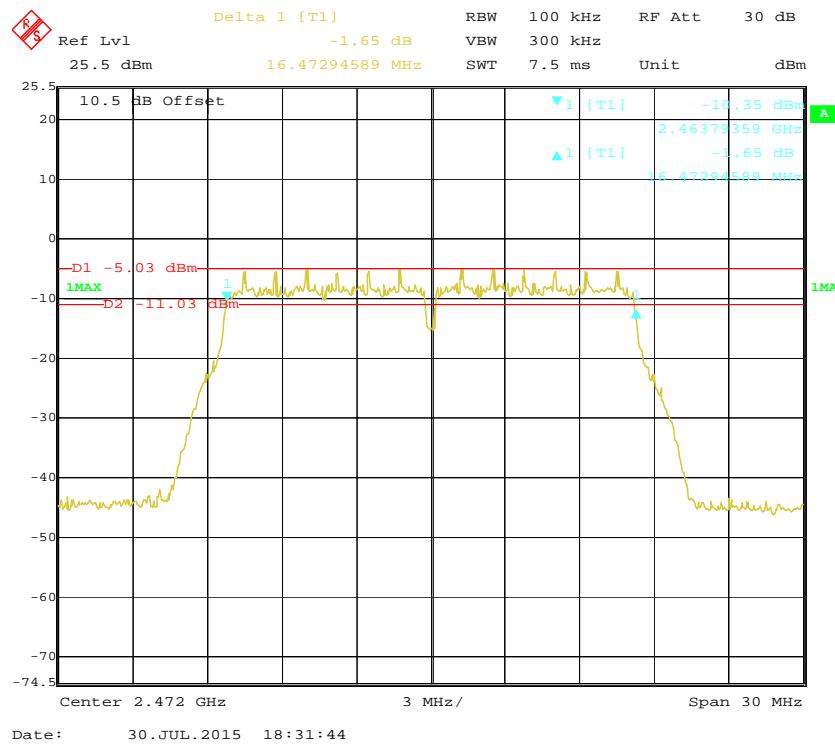
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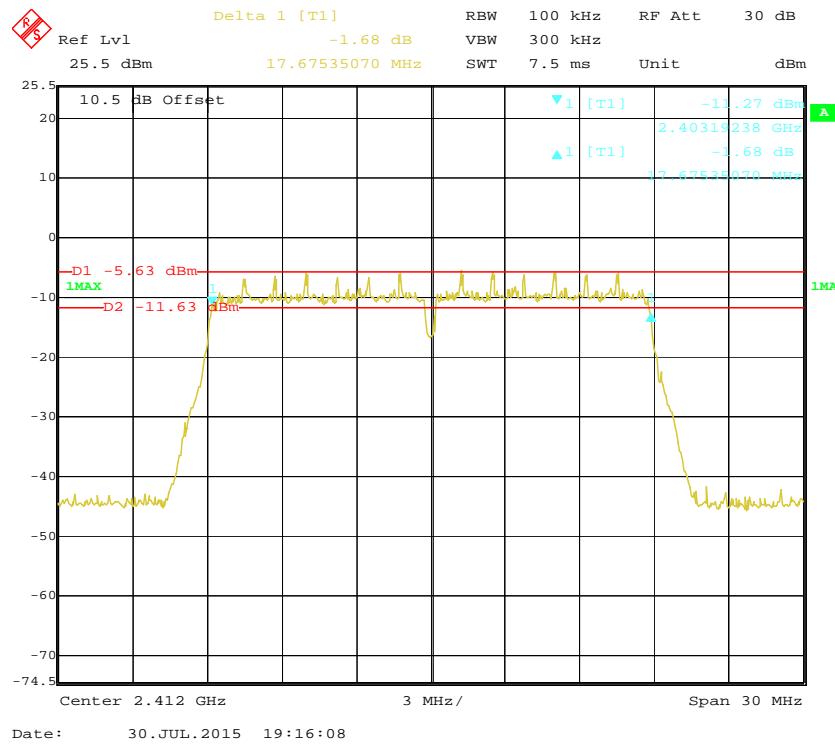
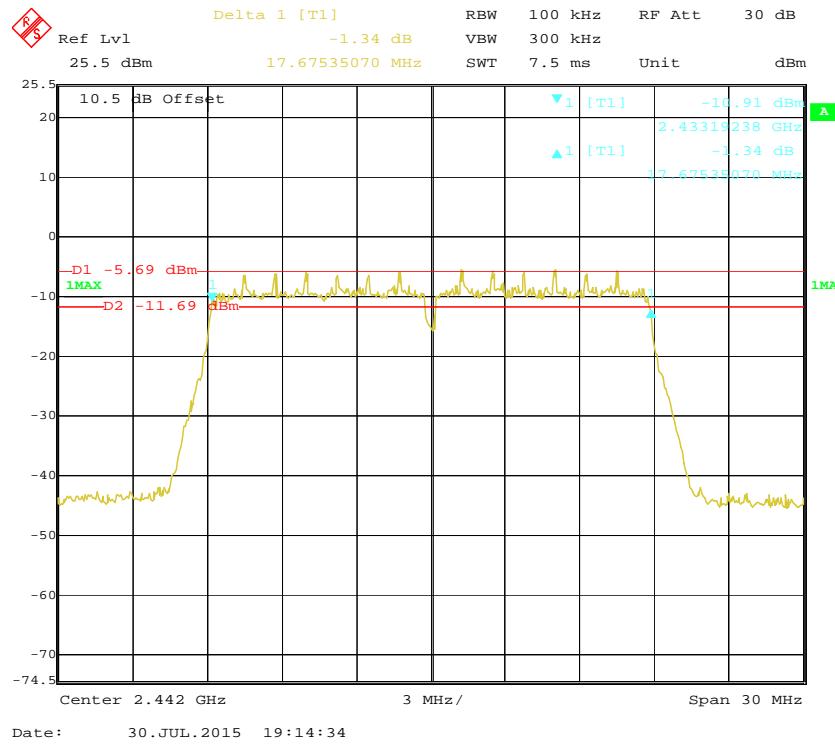
802.11b High Channel

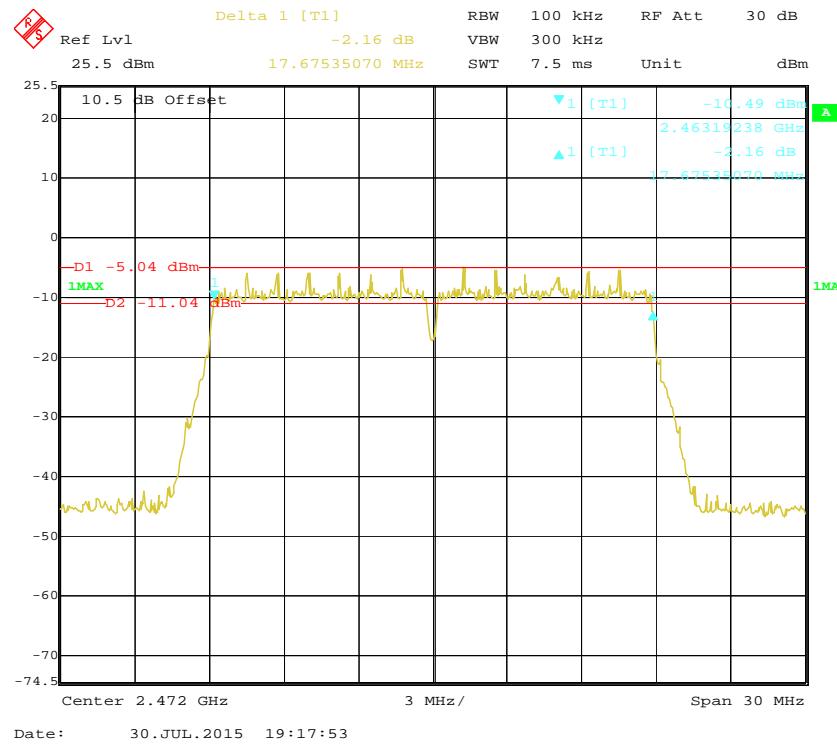
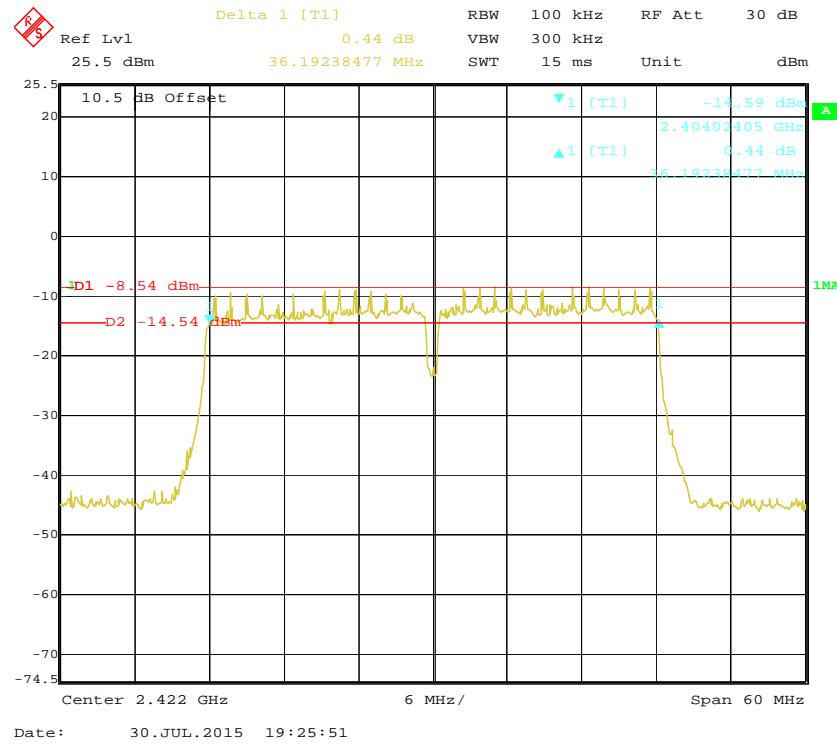


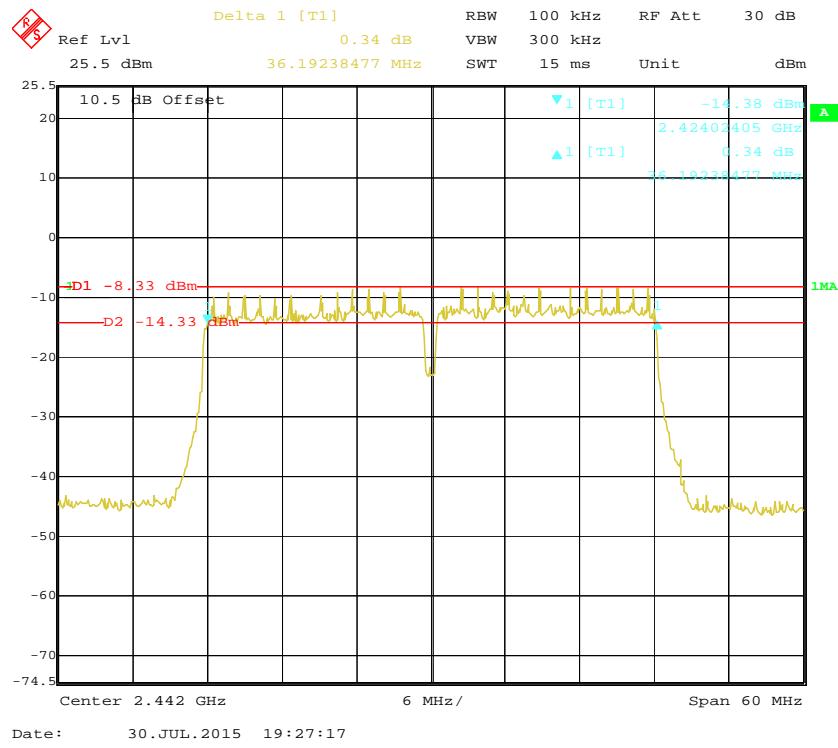
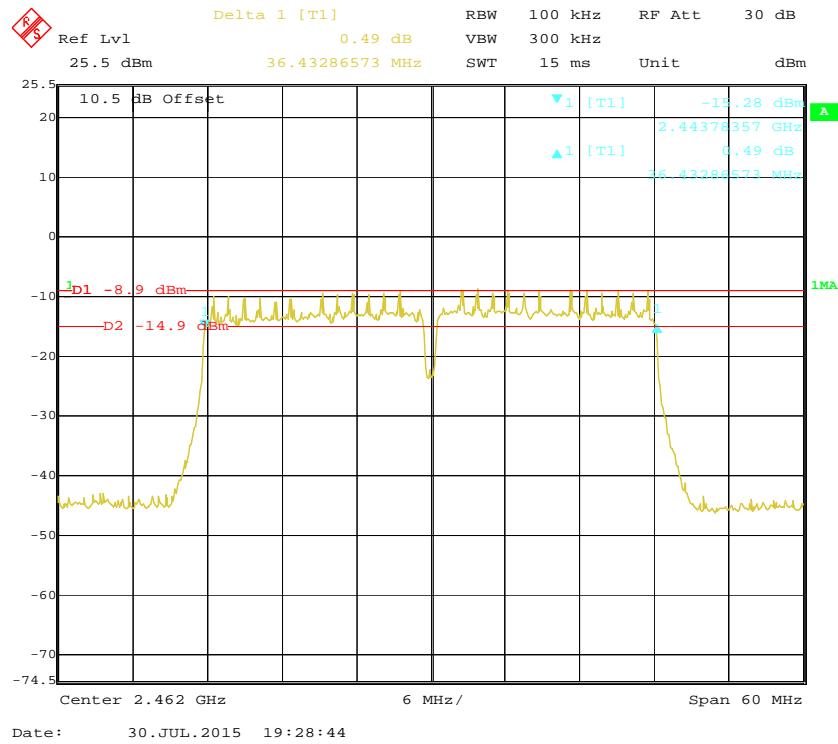
802.11g Low Channel



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

802.11n-HT20 Low Channel**802.11n-HT20 Middle Channel**

802.11n-HT20 High Channel**802.11n-HT40 Low Channel**

802.11n-HT40 Middle Channel**802.11n-HT40 High Channel**

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

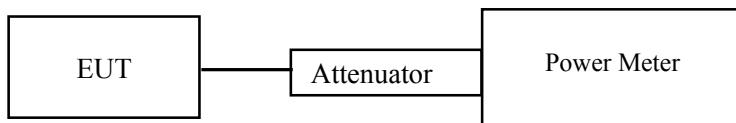
Applicable Standard

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

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r03

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
HP	Power Meter	HP EPM-441A	GB37481494	2014-11-24	2015-11-24
HP	Power Sensor	8481A	1926A16635	2014-11-24	2015-11-24

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

Test Data

Environmental Conditions

Temperature:	26
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2015-07-30.

Test Mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
802.11b				
Low	2412	10.35	8.50	30
Middle	2442	10.97	8.75	30
High	2472	10.99	8.78	30
802.11g				
Low	2412	12.64	8.73	30
Middle	2442	12.50	8.70	30
High	2472	12.19	8.61	30
802.11n-HT20				
Low	2412	11.97	8.33	30
Middle	2442	12.12	8.52	30
High	2472	12.03	8.47	30
802.11n HT40				
Low	2422	11.64	8.14	30
Middle	2442	11.61	8.05	30
High	2462	11.77	8.20	30

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

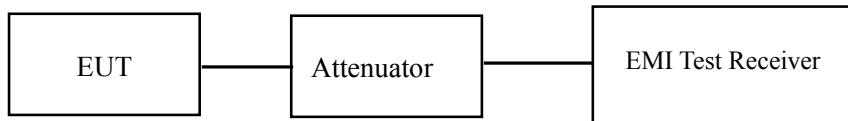
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS Averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r03

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

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

Test Data

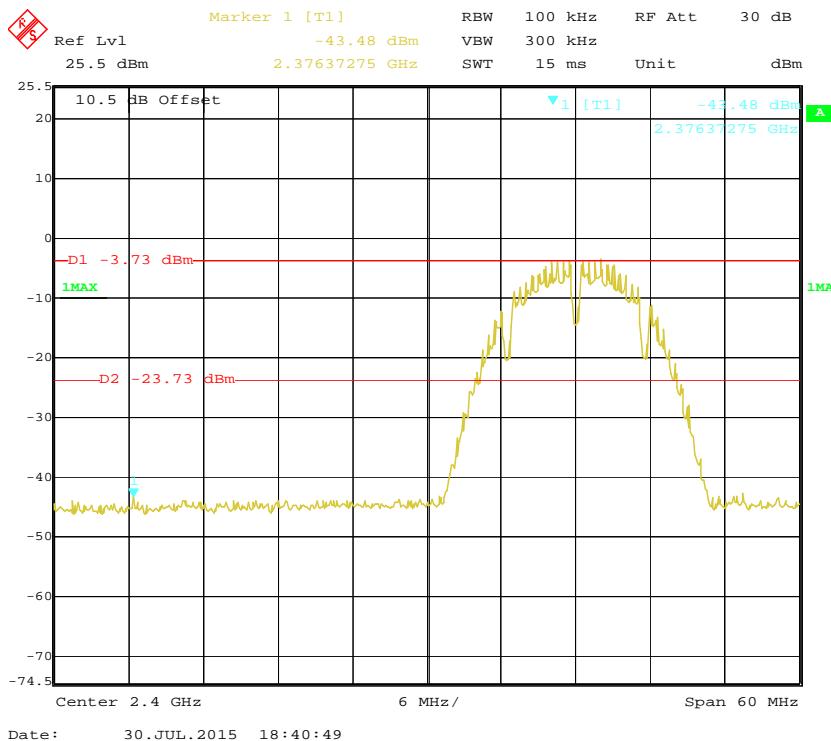
Environmental Conditions

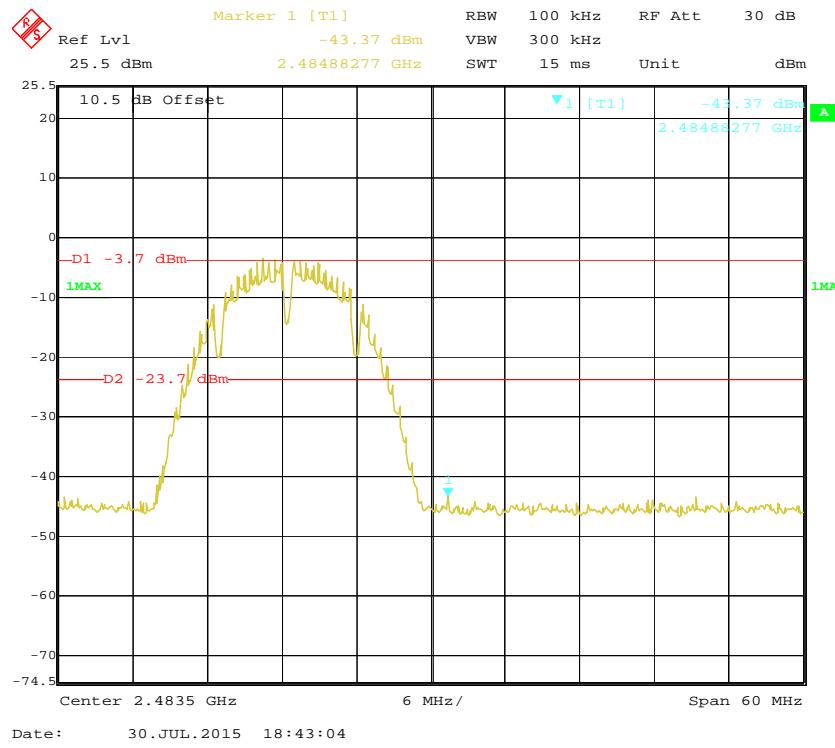
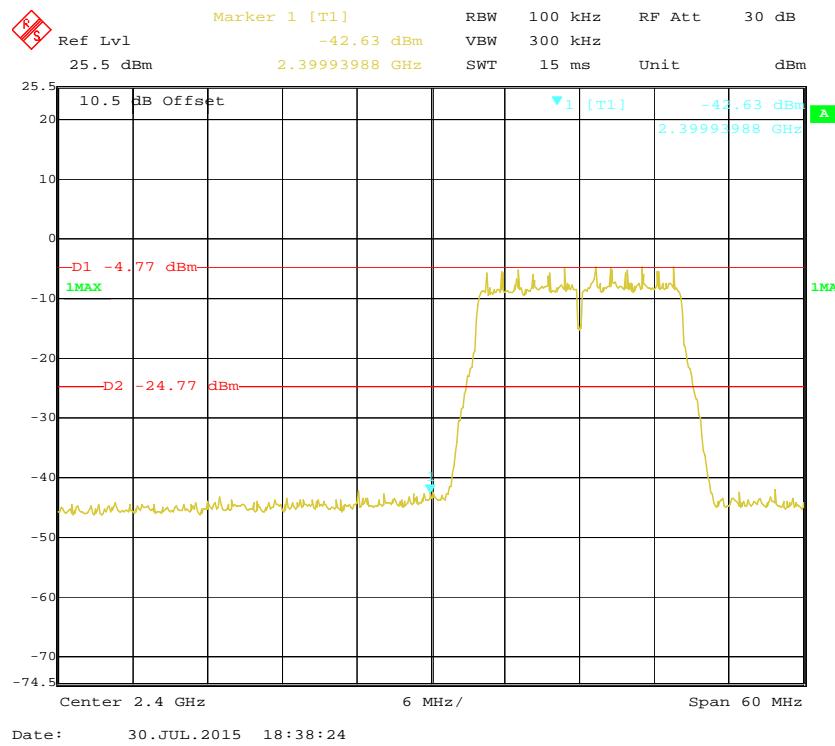
Temperature:	26
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

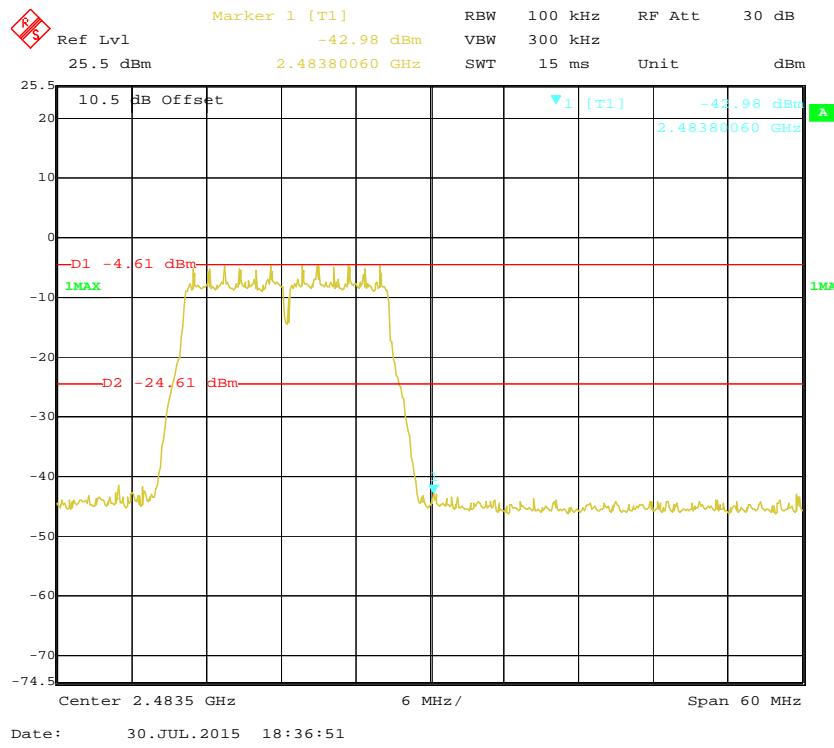
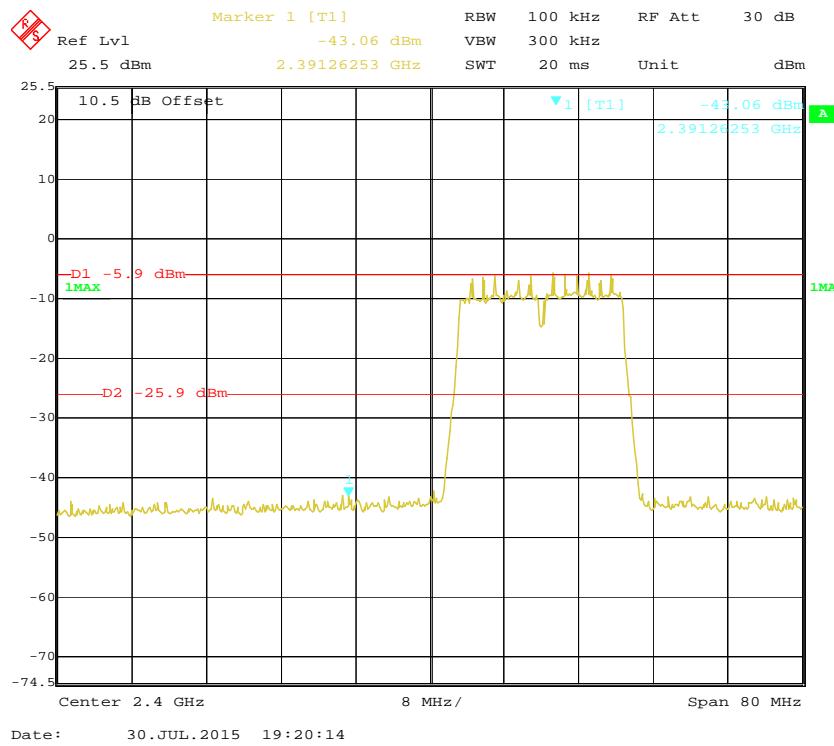
The testing was performed by Simon Wang on 2015-07-30.
Test Mode: Transmitting

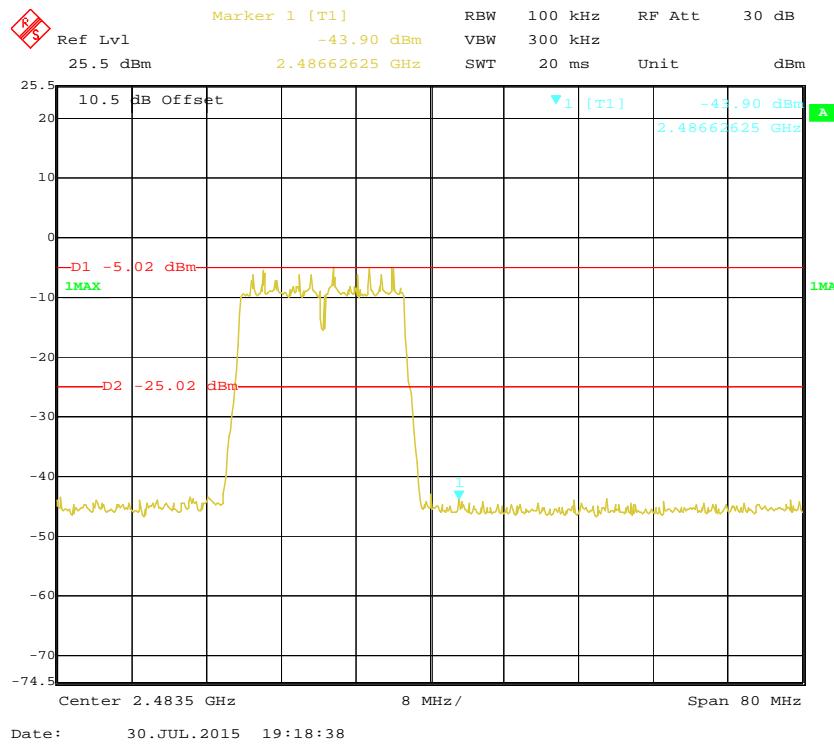
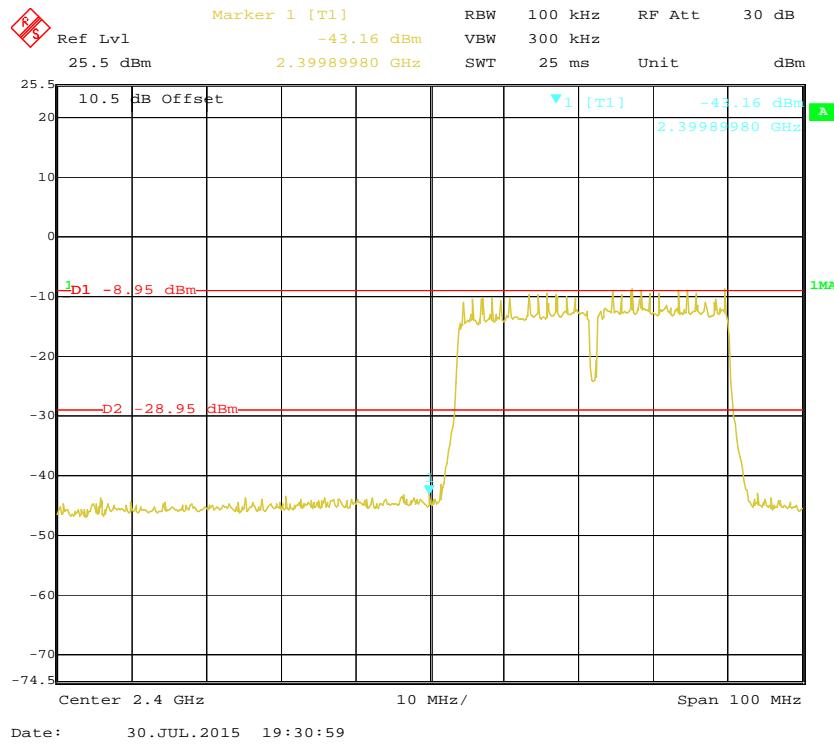
Test Result: Compliance

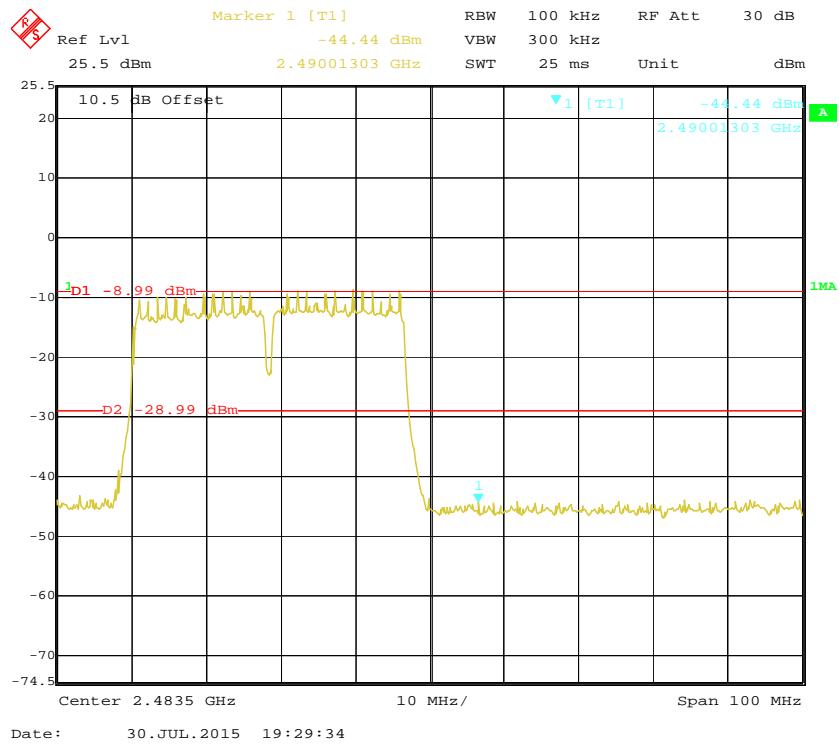
802.11b: Band Edge, Left Side



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

802.11g: Band Edge, Right Side**802.11n-HT20: Band Edge, Left Side**

802.11n-HT20: Band Edge, Right Side**802.11n-HT40: Band Edge, Left Side**

802.11n-HT40: Band Edge, Right Side

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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

Test Procedure

According to KDB558074 D01 DTS Meas Guidance v03r03 sub-clause 10.2

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
3. Set the VBW $\geq 3 \times \text{RBW}$.
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2015-04-27	2016-04-27

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

Test Data

Environmental Conditions

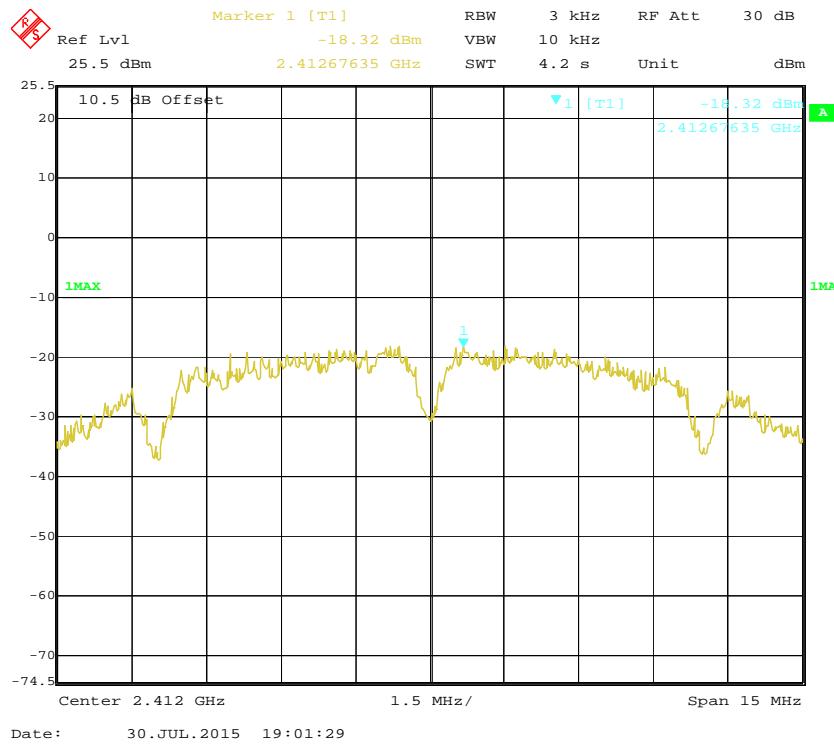
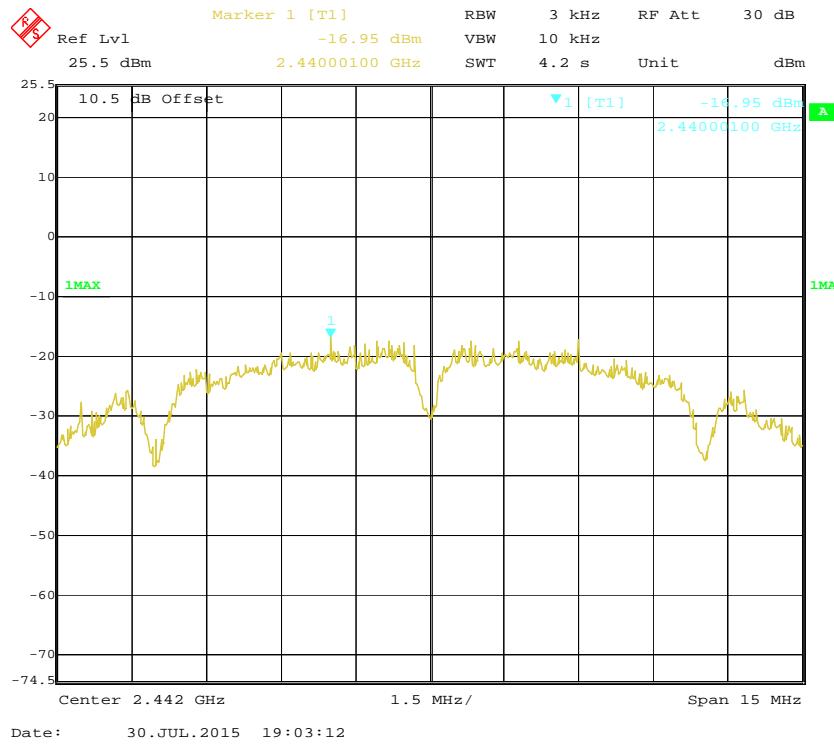
Temperature:	26
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

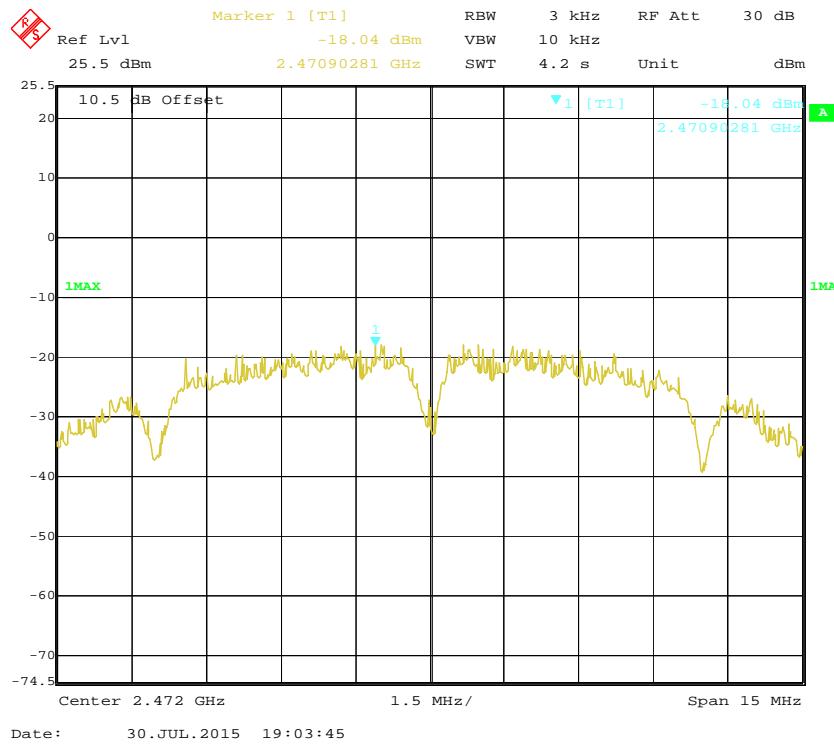
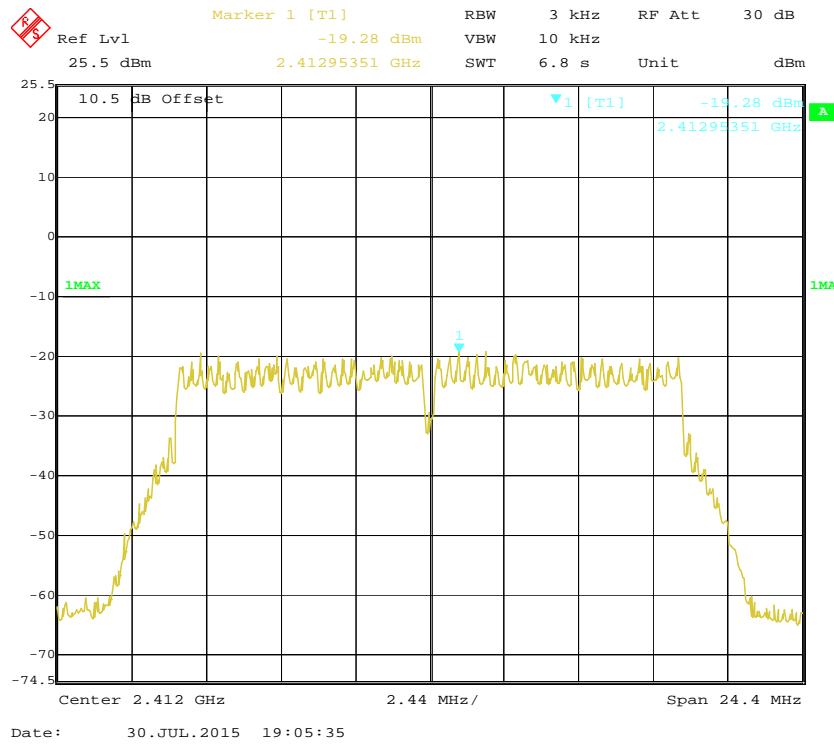
The testing was performed by Simon Wang on 2015-07-30.

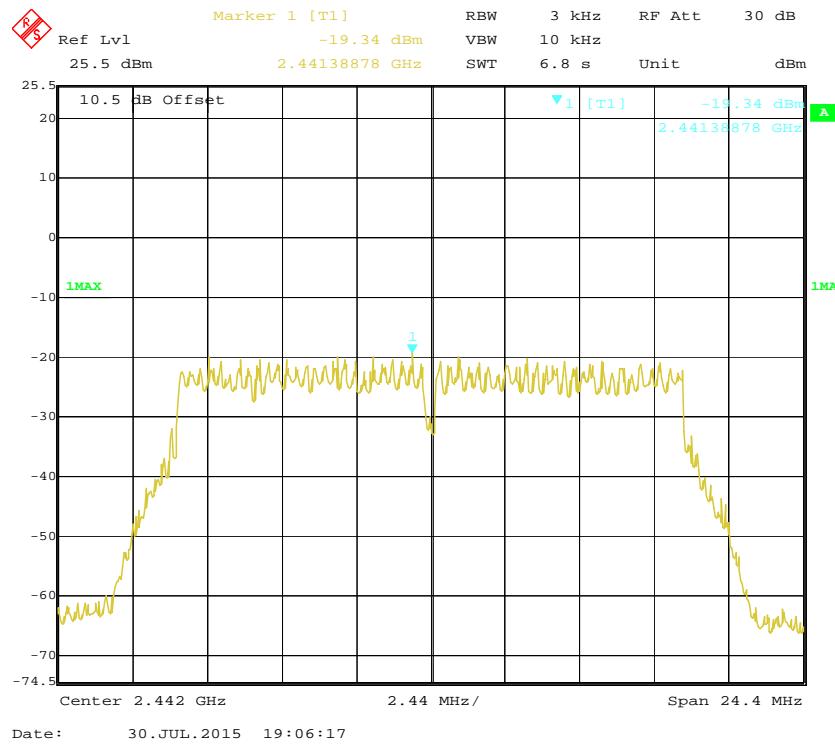
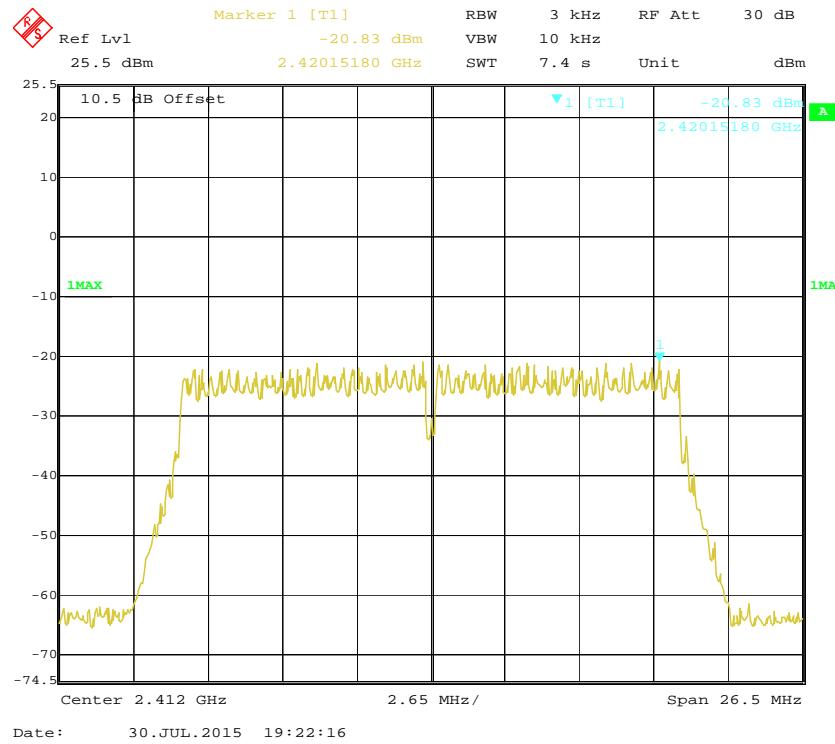
Test Mode: Transmitting

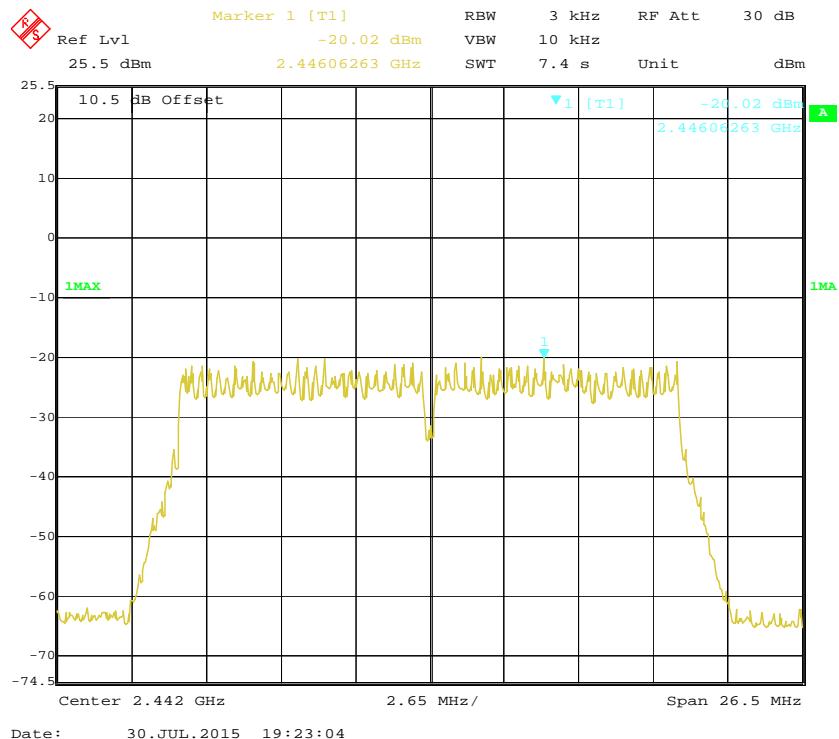
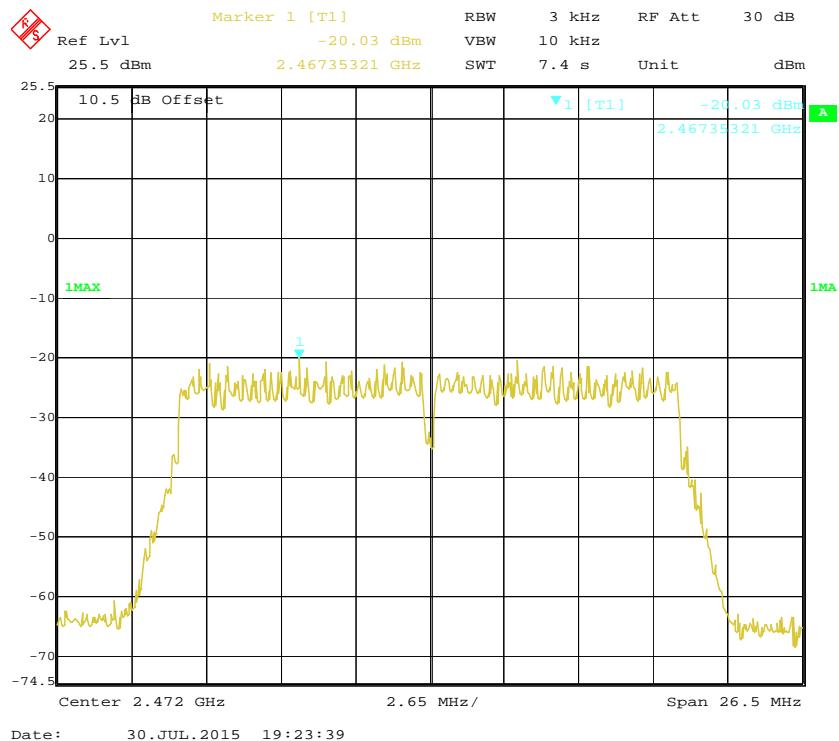
Test Result: Pass

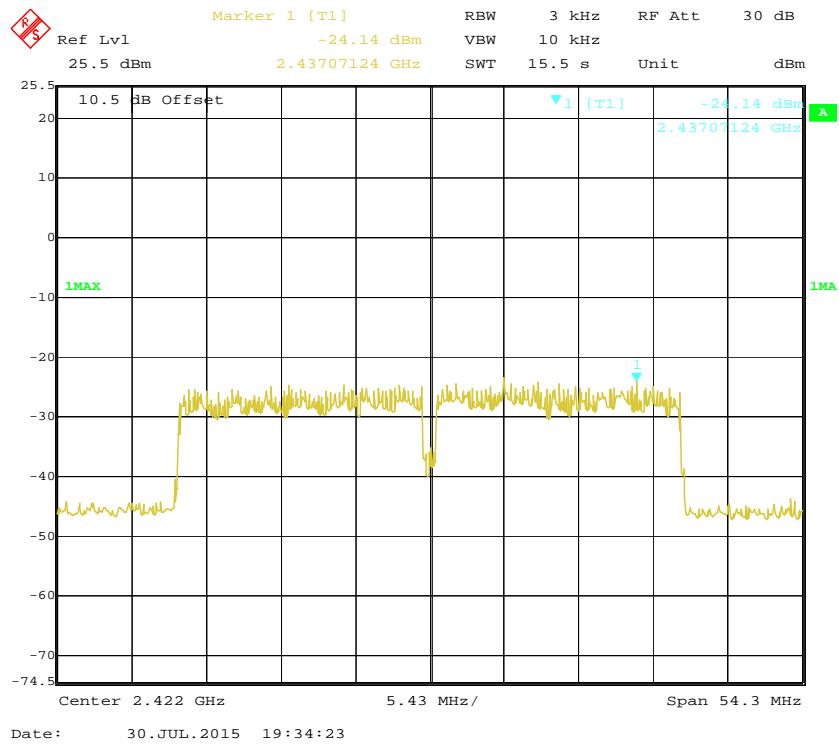
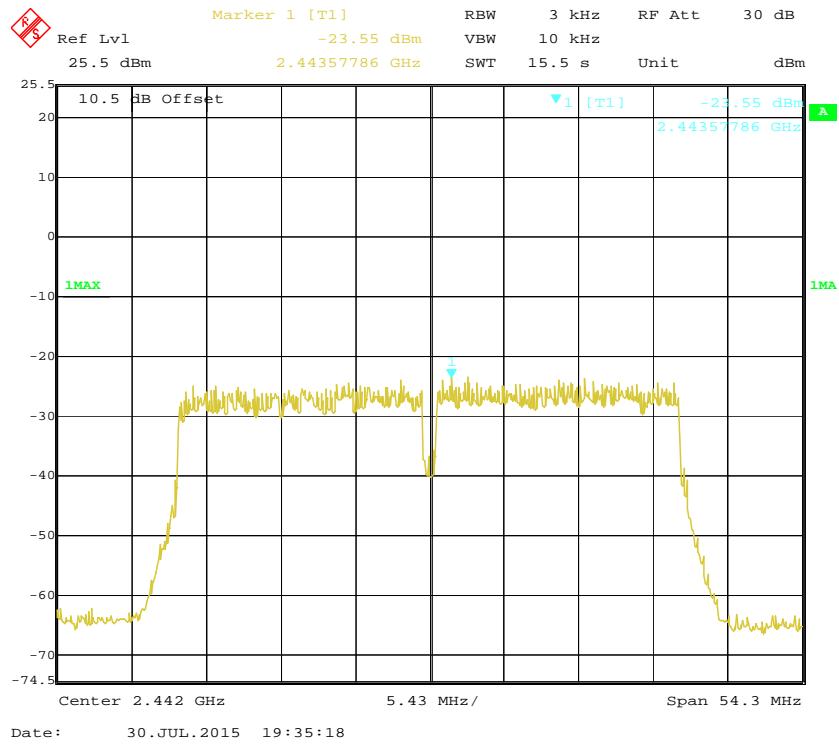
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-18.32	≤8
Middle	2442	-16.95	≤8
High	2472	-18.04	≤8
802.11g mode			
Low	2412	-19.28	≤8
Middle	2442	-19.34	≤8
High	2472	-19.35	≤8
802.11n-HT20 mode			
Low	2412	-20.83	≤8
Middle	2442	-20.02	≤8
High	2472	-20.03	≤8
802.11n-HT40 mode			
Low	2422	-24.14	≤8
Middle	2442	-23.55	≤8
High	2462	-23.99	≤8

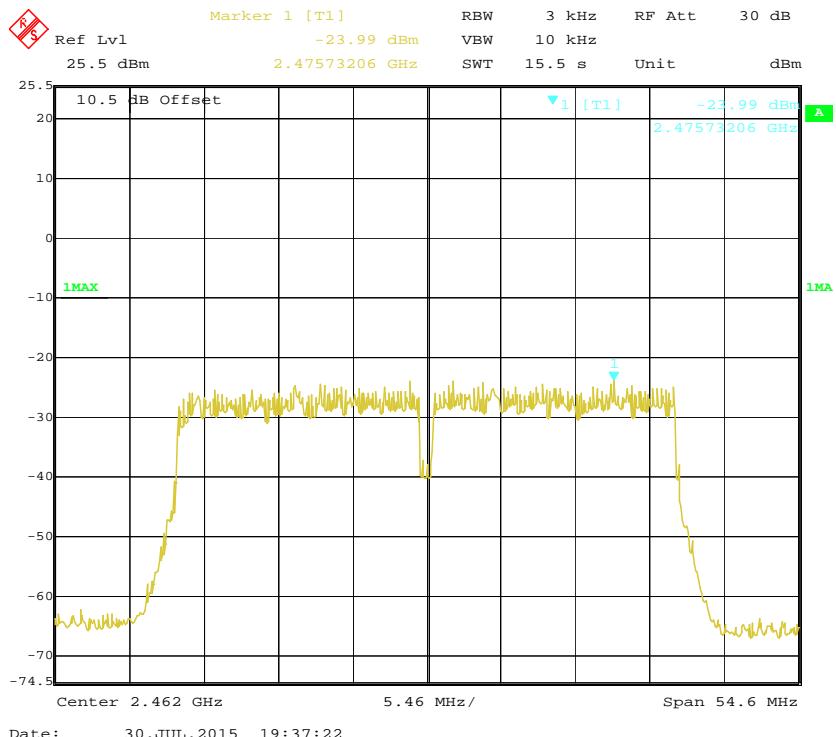
Power Spectral Density, 802.11b Low Channel**Power Spectral Density, 802.11b Middle Channel**

Power Spectral Density, 802.11g Low Channel**Power Spectral Density, 802.11g Middle Channel**

Power Spectral Density, 802.11g High Channel**Power Spectral Density, 802.11n-HT20 Low Channel**

Power Spectral Density, 802.11n-HT20 Middle Channel**Power Spectral Density, 802.11n-HT20 High Channel**

Power Spectral Density, 802.11n-HT40 Low Channel**Power Spectral Density, 802.11n-HT40 Middle Channel**

Power Spectral Density, 802.11n-HT40 High Channel

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