

FCC PART 15.247

TEST REPORT

For

Elanview Technology Co.,Ltd.

Room 605, Building F, No 7001,Zhongchun Road,Minhang District, Shanghai,P.R.China

FCC ID: 2AEKJ-CICADA-K

Report Type: Original Report	Product Type: Flying Camera
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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 Elanview Technology Co.,Ltd.'s product, model number: Cicada K (FCC ID: 2AEKJ-CICADA-K) or the "EUT" in this report is a Flying Camera, which was measured approximately: 375 cm (L) *361 cm (W) *103 cm (H).

**All measurement and test data in this report was gathered from production sample serial number: 160421001 (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2016-04-21*

Objective

This report is prepared on behalf of Elanview 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 and FCC KDB558074 D01 DTS Meas Guidance v03r05.

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

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

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the Chenghu Lake Road, Kunshan Development Zone No.248, Kunshan, Jiangsu, China

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) 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 November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

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

EUT was tested with Channel 1, 6 and 11.

For 802.11n-HT40 mode, 7 channels are provided to testing:

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

EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Realtek RTL8189ES Test Tool

The worst condition(maximum power with 100% duty cycle) was performed under:

802.11b: Data rate:1 Mbps, Power level: 19

802.11g: Data rate: 6 Mbps, Power level: 18

802.11n-HT20: Data rate: MCS0, Power level: 18

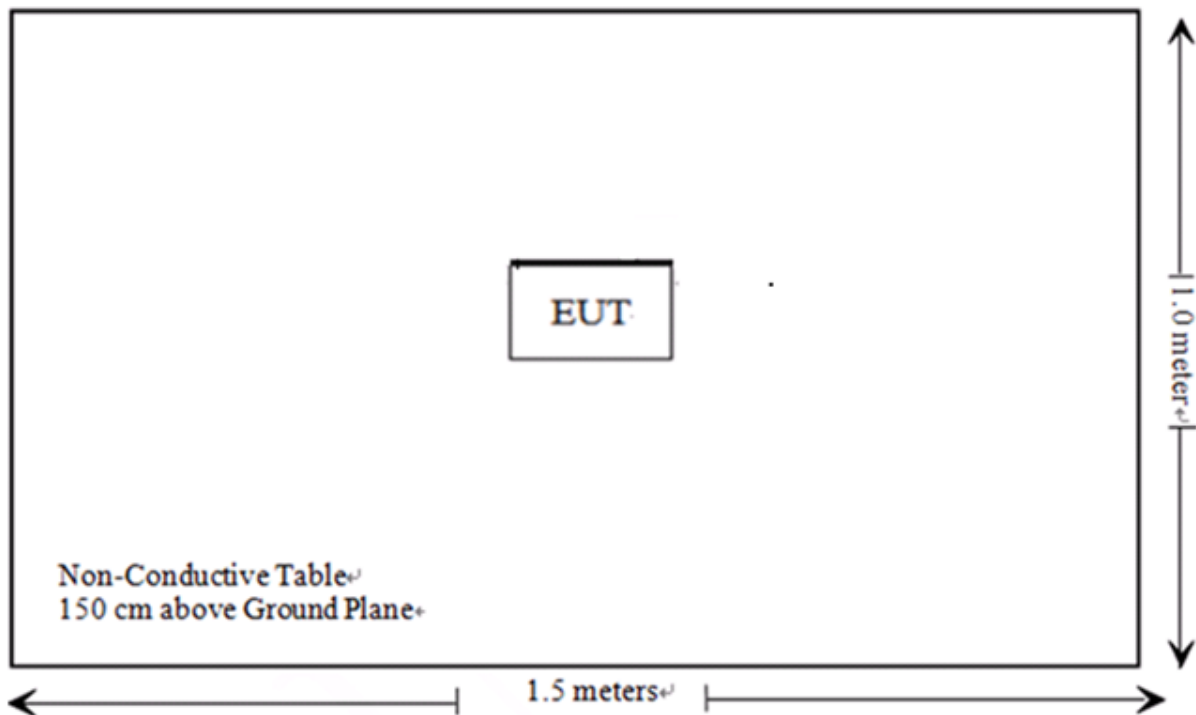
802.11n-HT40: Data rate: MCS0, Power level: 18

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To
/	/	/	/

Block Diagram of Test Setup

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1)& §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Not Applicable
§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 Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

Note: the EUT was supplied by battery.

FCC§15.247 (i), §1.1310& §2.1091 –Maximum Permissible Exposure (MPE)

Applicable Standard

According to subpart 15.247(i) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1093)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/		f/1500	30
1500-100,000	/		1.0	30

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

According to §1.1310 and §2.1093 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

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

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain		Target Power		Evaluation Distance (cm)	Power Density (mW/cm²)	MPE Limit (mW/cm²)
		(dBi)	(numeric)	(dBm)	(mW)			
802.11b	2412	2.0	1.585	20.0	100.0	20	0.032	1.0
802.11g	2412	2.0	1.585	19.0	79.4	20	0.025	1.0
802.11n HT20	2412	2.0	1.585	19.0	79.4	20	0.025	1.0
802.11n HT40	2422	2.0	1.585	19.0	79.4	20	0.025	1.0

Note: The target power : 802.11b:19±1dBm,
 802.11g:18±1dBm,
 802.11n(HT20):18±1dBm
 802.11n(HT40):18±1dBm

which declared by the Manufacturer.

Result: The device meet FCC MPE at 20 cm distance

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

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

Antenna Connector Construction

The EUT has an external antenna for wifi, can be permanently attached to the unit. which the antenna gain is 2.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

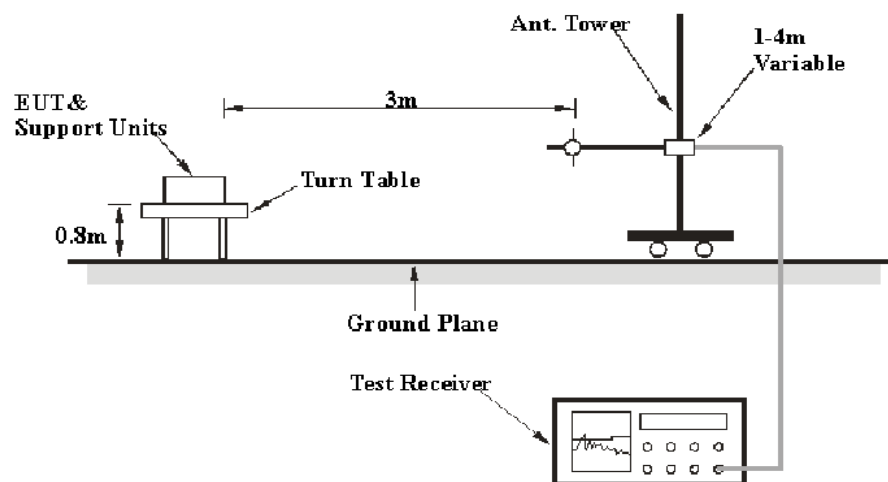
Measurement Uncertainty

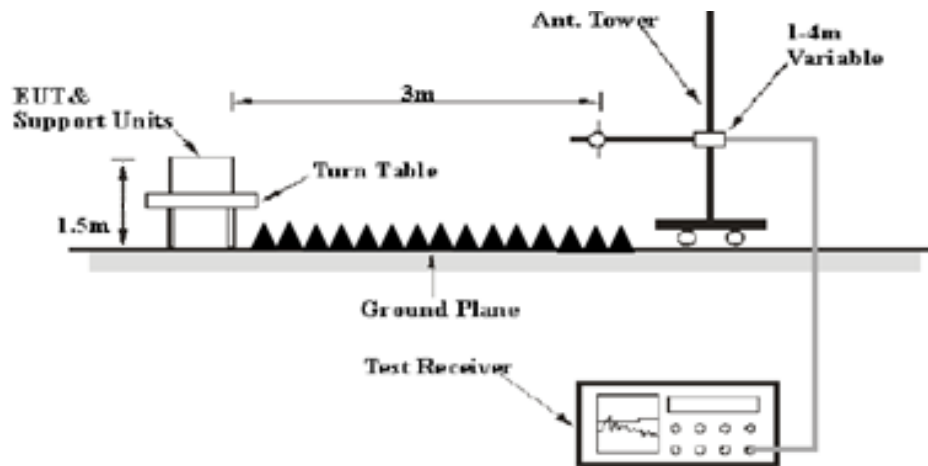
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency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

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Kunshan) is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, 1.95dB for conducted measurement at antenna port. And the uncertainty will not be taken into consideration for the test data recorded in the report

EUT Setup

Below 1 GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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

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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sonoma Instrunent	Amplifier	330	171377	2015-09-16	2016-09-15
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2015-11-12	2016-11-11
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2015-11-07	2016-11-06
ETS	Horn Antenna	3115	6229	2015-11-07	2016-11-06
EMCO	Horn Antenna	3116	9510-2384	2015-11-07	2016-11-06
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2015-11-12	2016-11-11
Mini	Pre-amplifier	ZVA-183-S+	857001418	2015-09-16	2016-09-15
DUCOMMUN	Pre-amplifier	ALN-22093530-01	990147	2015-09-16	2016-09-15
champrotek	Chamber	Chamber A	1#	2015-09-17	2016-09-16
R&S	Auto test Software	EMC32	V 09.10.0	-	-
BACL	RF cable	KS-LAB-012	KS-LAB-012	2015-12-16	2016-12-15
BACL	RF cable	KS-LAB-010	KS-LAB-010	2015-12-16	2016-12-15

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) 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.

2.78 dB at 2390 MHz in the Horizontal polarization for 802.11n-HT40 Mode

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

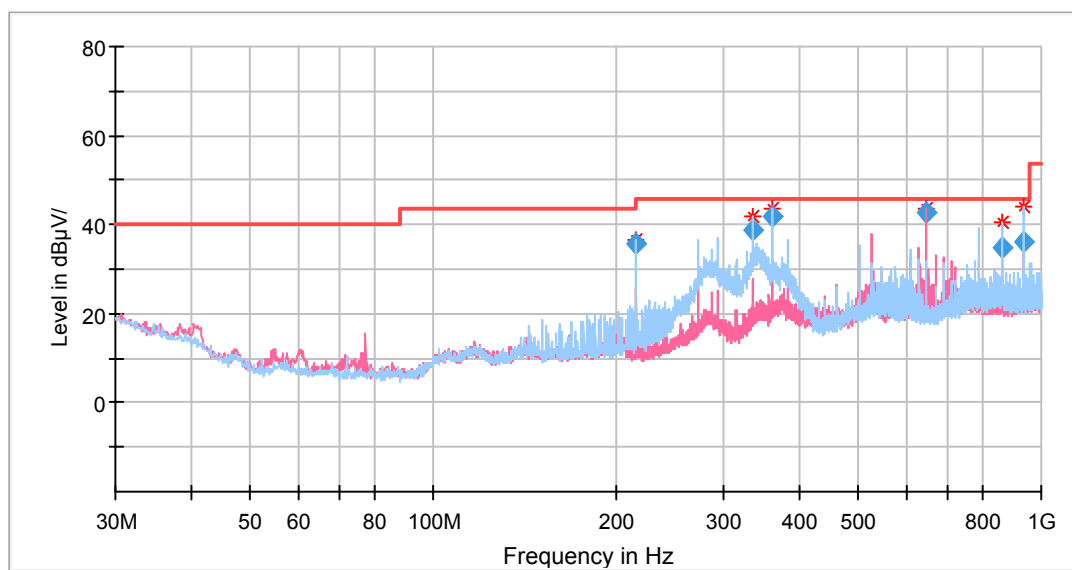
$$L_m + U_{(L_m)} \leq L_{\text{lim}} + U_{\text{cispr}}$$

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

Test Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Matt Yao on 2016-05-03.

30 MHz-1 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μV/m)	Margin (dB)
215.997500	48.33	QP	104.0	100.0	H	-12.5	35.83	43.50	7.67
336.035000	48.54	QP	291.0	100.0	H	-9.6	38.94	46.00	7.06
360.042500	51.25	QP	83.0	100.0	H	-9.2	42.05	46.00	3.95
648.011250	46.47	QP	307.0	100.0	V	-3.9	42.57	46.00	3.43
864.078750	35.99	QP	97.0	100.0	H	-1.1	34.89	46.00	11.11
936.101250	36.63	QP	78.0	100.0	H	-0.5	36.13	46.00	9.87

1GHz-25GHz*EUT operation mode: Transmitting***802.11b Mode**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel (2412 MHz)									
2412	95.82	PK	45.00	150.00	V	3.00	98.82	/	/
2412	89.63	Ave	45.00	150.00	V	3.00	92.63	/	/
2412	94.82	PK	160.00	150.00	H	3.00	97.82	/	/
2412	89.83	Ave	160.00	150.00	H	3.00	92.83	/	/
1898	39.72	PK	146.00	150.00	V	4.00	43.72	74.00	30.28
1898	19.08	Ave	146.00	150.00	V	4.00	23.08	54.00	30.92
2353	42.90	PK	220.00	150.00	V	4.80	47.70	74.00	26.30
2353	29.88	Ave	220.00	150.00	V	4.80	34.68	54.00	19.32
2390	48.74	PK	5.00	200.00	H	4.90	53.64	74.00	20.36
2390	35.99	Ave	5.00	200.00	H	4.90	40.89	54.00	13.11
4824	30.39	PK	130.00	150.00	H	13.80	44.19	74.00	29.81
4824	16.85	Ave	130.00	150.00	H	13.80	30.65	54.00	23.35
7236	16.18	Ave	340.00	200.00	V	18.80	34.98	54.00	19.02
7236	30.94	PK	340.00	200.00	V	18.80	49.74	74.00	24.26
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Middle Channel (2437 MHz)									
2437	95.61	PK	195.00	150.00	V	3.00	98.61	/	/
2437	91.52	Ave	195.00	150.00	V	3.00	94.52	/	/
2437	94.23	PK	145.00	200.00	H	3.00	97.23	/	/
2437	90.02	Ave	145.00	200.00	H	3.00	93.02	/	/
1617	19.08	Ave	325.00	150.00	V	2.90	21.98	54.00	32.02
1617	32.17	PK	325.00	150.00	V	2.90	35.07	74.00	38.93
4874	30.59	PK	245.00	150.00	V	13.90	44.49	74.00	29.51
4874	17.01	Ave	245.00	150.00	V	13.90	30.91	54.00	23.09
6625	34.93	PK	147.00	150.00	H	17.70	52.63	74.00	21.37
6625	20.88	Ave	147.00	150.00	H	17.70	38.58	54.00	15.42
6934	32.29	PK	241.00	200.00	H	18.80	51.09	74.00	22.91
6934	19.51	Ave	241.00	200.00	H	18.80	38.31	54.00	15.69
7311	30.69	PK	0.00	150.00	V	18.90	49.59	74.00	24.41
7311	17.10	Ave	0.00	150.00	V	18.90	36.00	54.00	18.00

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel (2462 MHz)									
2462	94.85	PK	68.00	150.00	V	3.00	97.85	/	/
2462	90.61	Ave	68.00	150.00	V	3.00	93.61	/	/
2462	95.53	PK	115.00	100.00	H	3.00	98.53	/	/
2462	90.9	Ave	115.00	100.00	H	3.00	93.90	/	/
1758	19.06	Ave	100.00	150.00	V	3.50	22.56	54.00	31.44
1758	32.8	PK	100.00	150.00	V	3.50	36.30	74.00	37.70
2483.5	31.49	Ave	177.00	200.00	H	3.20	34.69	54.00	19.31
2483.5	44.05	PK	177.00	200.00	H	3.20	47.25	74.00	26.75
2543	28.21	Ave	352.00	200.00	H	5.20	33.41	54.00	20.59
2543	41.67	PK	352.00	200.00	H	5.20	46.87	74.00	27.13
4928	30.44	PK	97.00	200.00	H	14.00	44.44	74.00	29.56
4928	16.47	Ave	97.00	200.00	H	14.00	30.47	54.00	23.53
7386	30.56	PK	226.00	200.00	H	19.80	50.36	74.00	23.64
7386	16.42	Ave	226.00	200.00	H	19.80	36.22	54.00	17.78

802.11g Mode

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412	93.82	PK	155.00	100.00	V	3.00	96.82	/	/
2412	90.76	Ave	155.00	100.00	V	3.00	93.76	/	/
2412	93.55	PK	101.00	150.00	H	3.00	96.55	/	/
2412	89.24	Ave	101.00	150.00	H	3.00	92.24	/	/
1743	19.97	Ave	20.00	150.00	V	3.50	23.47	54.00	30.53
1743	33.00	PK	20.00	150.00	V	3.50	36.50	74.00	37.50
2378	49.58	PK	13.00	150.00	H	4.90	54.48	74.00	19.52
2378	36.12	Ave	13.00	150.00	H	4.90	41.02	54.00	12.98
2384	51.65	PK	10.00	150.00	H	4.90	56.55	74.00	17.45
2384	37.75	Ave	10.00	150.00	H	4.90	42.65	54.00	11.35
4824	17.50	Ave	190.00	200.00	V	13.80	31.30	54.00	22.70
4824	30.77	PK	190.00	200.00	V	13.80	44.57	74.00	29.43
7236	17.68	Ave	293.00	200.00	V	18.80	36.48	54.00	17.52
7236	30.96	PK	293.00	200.00	V	18.80	49.76	74.00	24.24

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.247/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
Middle Channel (2437 MHz)									
2437	92.77	PK	180.0	100.00	V	3.00	95.77	/	/
2437	87.76	Ave	180.0	100.00	V	3.00	90.76	/	/
2437	95.25	PK	120.0	150.00	H	3.00	98.25	/	/
2437	90.74	Ave	120.0	150.00	H	3.00	93.74	/	/
1589	22.07	Ave	9.00	150.00	V	2.80	24.87	54.00	29.13
1589	37.75	PK	9.00	150.00	V	2.80	40.55	74.00	33.45
3076	20.05	Ave	35.00	150.00	V	7.00	27.05-	54.00	26.95
3076	32.75	PK	35.00	150.00	V	7.00	39.75	74.00	34.25
4874	17.06	Ave	303.00	150.00	H	13.90	30.96	54.00	23.04
4874	30.69	PK	303.00	150.00	H	13.90	44.59	74.00	29.41
6625	20.88	Ave	58.00	150.00	H	17.70	38.58	54.00	15.42
6625	33.73	PK	58.00	150.00	H	17.70	51.43	74.00	22.57
7311	17.84	Ave	128.00	200.00	H	18.90	36.74	54.00	17.26
7311	31.69	PK	128.00	200.00	H	18.90	50.59	74.00	23.41
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.247/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
High Channel (2462 MHz)									
2462	96.10	PK	157.00	200.00	V	3.00	99.10	/	/
2462	91.86	Ave	157.00	200.00	V	3.00	94.86	/	/
2462	92.77	PK	96.00	150.00	H	3.00	95.77	/	/
2462	88.86	Ave	96.00	150.00	H	3.00	91.86	/	/
2483.5	47.69	PK	305.00	150.00	V	3.20	50.89	74.00	23.11
2483.5	33.37	Ave	305.00	150.00	V	3.20	36.57	54.00	17.43
2529	42.72	PK	344.00	150.00	H	5.10	47.82	74.00	26.18
2529	30.01	Ave	344.00	150.00	H	5.10	35.11	54.00	18.89
3062	33.75	PK	328.00	150.00	H	7.00	40.75	74.00	33.25
3062	20.46	Ave	328.00	150.00	H	7.00	27.46	54.00	26.54
4924	31.30	PK	135.00	150.00	H	14.00	45.30	74.00	28.70
4924	17.51	Ave	135.00	150.00	H	14.00	31.51	54.00	22.49
7386	17.12	Ave	168.00	200.00	V	19.80	36.92	54.00	17.08
7386	30.55	PK	168.00	200.00	V	19.80	50.35	74.00	23.65

802.11n-HT20 Mode

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412	95.22	PK	190.00	200.00	V	3.00	98.22	/	/
2412	87.15	Ave	190.00	200.00	V	3.00	90.15	/	/
2412	92.73	PK	130.00	200.00	H	3.00	95.73	/	/
2412	84.85	Ave	130.00	200.00	H	3.00	87.85	/	/
1603	33.17	PK	358.00	150.00	V	2.90	36.07	74.00	37.93
1603	19.51	Ave	358.00	150.00	V	2.90	22.41	54.00	31.59
2380	49.87	PK	21.00	150.00	H	4.90	54.77	74.00	19.23
2380	36.48	Ave	21.00	150.00	H	4.90	41.38	54.00	12.62
2384	51.83	PK	16.00	150.00	H	4.90	56.73	74.00	17.27
2384	37.69	Ave	16.00	150.00	H	4.90	42.59	54.00	11.41
4824	17.65	Ave	210.00	200.00	V	13.80	31.45	54.00	22.55
4824	32.23	PK	210.00	200.00	V	13.80	46.03	74.00	27.97
7236	30.99	PK	91.00	200.00	H	18.80	49.79	74.00	24.21
7236	17.68	Ave	91.00	200.00	H	18.80	36.48	54.00	17.52
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Middle Channel (2437 MHz)									
2437	93.34	PK	155.00	200.00	V	3.00	96.34	/	/
2437	85.67	Ave	155.00	200.00	V	3.00	88.67	/	/
2437	92.67	PK	119.00	200.00	H	3.00	95.67	/	/
2437	84.45	Ave	119.00	200.00	H	3.00	87.45	/	/
1743	19.97	Ave	145.00	150.00	V	3.50	23.47	54.00	30.53
1743	33.61	PK	145.00	150.00	V	3.50	37.11	74.00	36.89
3062	20.46	Ave	342.00	150.00	V	7.00	27.46	54.00	26.54
3062	33.69	PK	342.00	150.00	V	7.00	40.69	74.00	33.31
4240	19.08	Ave	132.00	150.00	V	11.00	30.08	54.00	23.92
4240	32.65	PK	132.00	150.00	V	11.00	43.65	74.00	30.35
4874	17.61	Ave	294.00	200.00	H	13.90	31.51	54.00	22.49
4874	31.48	PK	294.00	200.00	H	13.90	45.38	74.00	28.62
7311	17.80	Ave	1.00	150.00	V	18.90	36.70	54.00	17.30
7311	31.60	PK	1.00	150.00	V	18.90	50.50	74.00	23.50

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel (2462 MHz)									
2462	93.87	PK	187.00	200.00	V	3.00	96.87	/	/
2462	85.23	Ave	187.00	200.00	V	3.00	88.23	/	/
2462	92.86	PK	150.00	150.00	H	3.00	95.86	/	/
2462	84.03	Ave	150.00	150.00	H	3.00	87.03	/	/
1743	33.48	PK	67.00	150.00	V	3.50	36.98	74.00	37.02
1743	19.97	Ave	67.00	150.00	V	3.50	23.47	54.00	30.53
2483.5	36.48	Ave	86.00	150.00	H	3.20	39.68	54.00	14.32
2483.5	51.92	PK	86.00	150.00	H	3.20	55.12	74.00	18.88
2532	30.72	Ave	348.00	150.00	H	5.10	35.82	54.00	18.18
2532	43.73	PK	348.00	150.00	H	5.10	48.83	74.00	25.17
4924	32.00	PK	65.00	150.00	V	14.00	46.00	74.00	28.00
4924	17.72	Ave	65.00	150.00	V	14.00	31.72	54.00	22.28
7386	17.12	Ave	176.00	200.00	V	19.80	36.92	54.00	17.08
7386	30.68	PK	176.00	200.00	V	19.80	50.48	74.00	23.52

802.11n-HT40 Mode

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel (2422 MHz)									
2422	93.78	PK	170.00	150.00	V	3.00	96.78	/	/
2422	83.77	Ave	170.00	150.00	V	3.00	86.77	/	/
2422	94.67	PK	115.00	200.00	H	3.00	97.67	/	/
2422	85.65	Ave	115.00	200.00	H	3.00	88.65	/	/
1603	38.29	PK	0.00	150.00	V	2.90	41.19	74.00	32.81
1603	21.64	Ave	0.00	150.00	V	2.90	24.54	54.00	29.46
2360	41.20	Ave	13.00	150.00	H	4.80	46.00	54.00	8.00
2360	53.09	PK	13.00	150.00	H	4.80	57.89	74.00	16.11
2390	46.32	Ave	17.00	150.00	H	4.90	51.22	54.00	2.78
2390	58.94	PK	17.00	150.00	H	4.90	63.84	74.00	10.16
4844	31.58	PK	5.00	200.00	V	13.80	45.38	74.00	28.62
4844	18.40	Ave	5.00	200.00	V	13.80	32.20	54.00	21.80
7266	18.03	Ave	18.00	200.00	H	18.80	36.83	54.00	17.17
7266	31.35	PK	18.00	200.00	H	18.80	50.15	74.00	23.85

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Middle Channel (2437MHz)									
2437	94.56	PK	194.00	200.00	V	3.00	97.56	/	/
2437	85.20	Ave	194.00	200.00	V	3.00	88.20	/	/
2437	95.25	PK	101.00	150.00	H	3.00	98.25	/	/
2437	85.61	Ave	101.00	150.00	H	3.00	88.61	/	/
1589	21.31	Ave	6.00	150.00	V	2.80	24.11	54.00	29.89
1589	43.08	PK	6.00	150.00	V	2.80	45.88	74.00	28.12
1758	39.16	PK	111.00	200.00	H	3.50	42.66	74.00	31.34
1758	26.27	Ave	111.00	200.00	H	3.50	29.77	54.00	24.23
3062	33.89	PK	348.00	150.00	H	7.00	40.89	74.00	33.11
3062	20.46	Ave	348.00	150.00	H	7.00	27.46	54.00	26.54
4874	31.29	PK	164.00	200.00	V	13.90	45.19	74.00	28.81
4874	17.66	Ave	164.00	200.00	V	13.90	31.56	54.00	22.44
7311	17.80	Ave	161.00	150.00	H	18.90	36.70	54.00	17.30
7311	31.26	PK	161.00	150.00	H	18.90	50.16	74.00	23.84
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
High Channel (2452MHz)									
2452	93.08	PK	140.0	200.0	V	3.00	96.08	/	/
2452	83.23	Ave	140.0	200.0	V	3.00	86.23	/	/
2452	92.75	PK	100.0	150.0	H	3.00	95.75	/	/
2452	83.53	Ave	100.0	150.0	H	3.00	86.53	/	/
1743	33.35	PK	314.0	150.0	H	3.5	36.85	74.00	37.15
1743	19.97	Ave	314.0	150.0	H	3.5	23.47	54.00	30.53
2483.5	41.71	Ave	85.0	150.0	H	3.20	44.91	54.00	9.09
2483.5	54.25	PK	85.0	150.0	H	3.20	57.45	74.00	16.55
2515	36.75	Ave	351.0	150.0	H	5.1	41.85	54.00	12.15
2515	48.73	PK	351.0	150.0	H	5.1	53.83	74.00	20.17
4904	30.92	PK	174.0	150.0	H	14.00	44.92	74.00	29.08
4904	17.66	Ave	174.0	150.0	H	14.00	31.66	54.00	22.34
7356	16.29	Ave	142.0	150.0	V	19.80	36.09	54.00	17.91
7356	29.95	PK	142.0	150.0	V	19.80	49.75	74.00	24.25

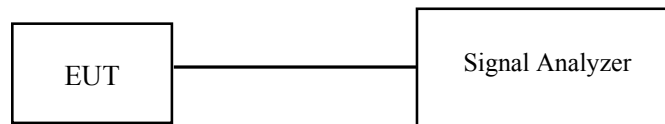
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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	Signal Analyzer	FSIQ26	100048	2015-11-12	2016-11-11
BACL	RF cable	KS-LAB-012	KS-LAB-012	2015-12-16	2016-12-15

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) 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:	27 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Matt Yao on 2016-04-28.

Test Result: Pass.

Please refer to the following tables and plots.

EUT operation mode: Transmitting

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
802.11b mode			
Low	2412	10.22	≥ 500
Middle	2437	10.16	≥ 500
High	2462	10.16	≥ 500
802.11g mode			
Low	2412	16.65	≥ 500
Middle	2437	16.65	≥ 500
High	2462	16.65	≥ 500
802.11n-HT20 mode			
Low	2412	17.92	≥ 500
Middle	2437	17.92	≥ 500
High	2462	17.92	≥ 500
802.11n-HT40 mode			
Low	2422	36.67	≥ 500
Middle	2437	36.67	≥ 500
High	2452	36.67	≥ 500

Delta 2 [T1] -0.72 dB
 RBW 100 kHz RF Att 30 dB
 Ref Lvl 20.5 dBm 10.22044088 MHz SWT 7.5 ms Unit dBm

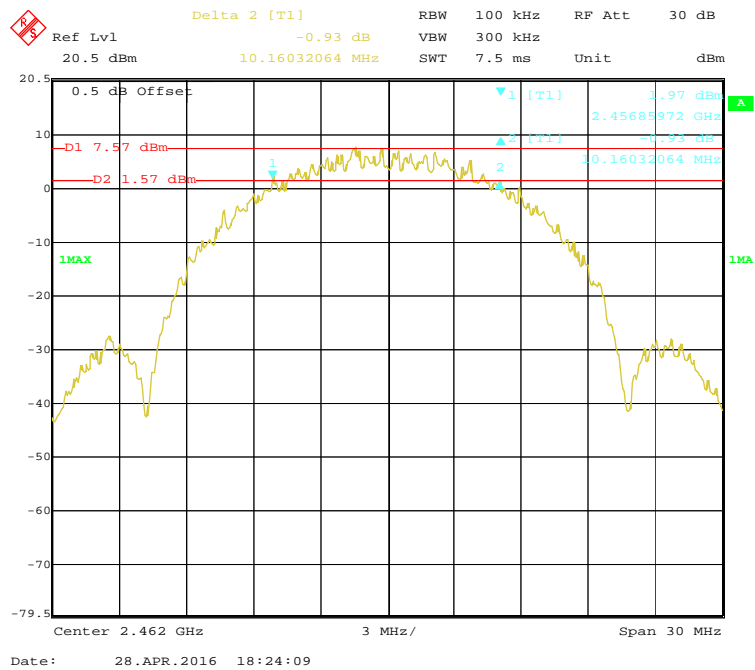
0.5 dB Offset
 D1 7.78 dBm
 D2 1.78 dBm
 1 [T1] 2.40685972 GHz -0.72 dB
 2 [T1] 2.40685972 GHz -0.72 dB
 1MAX
 2MAX
 Center 2.412 GHz 3 MHz/
 Span 30 MHz

Date: 28.APR.2016 18:15:22

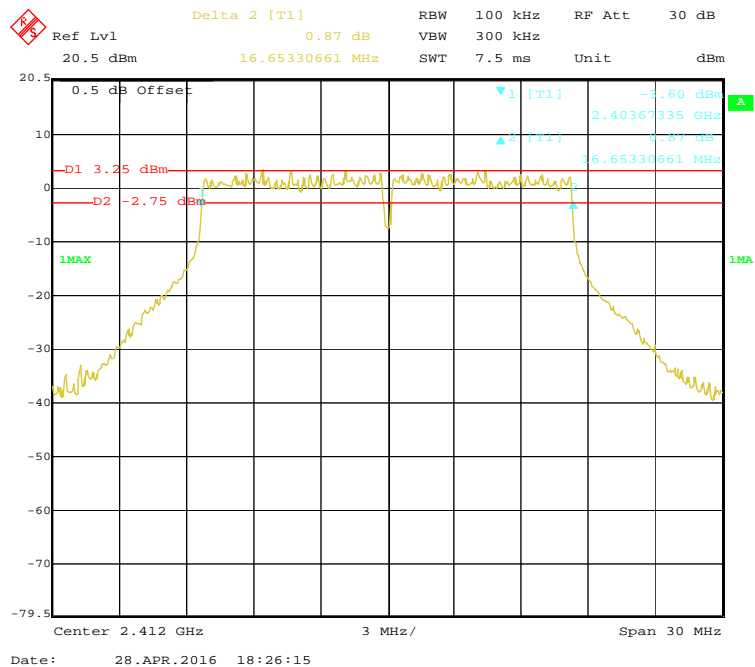
Delta 2 [T1] RBW 100 kHz RF Att 30 dB
 Ref Lvl -0.64 dB VBW 300 kHz
 20.5 dBm 10.16032064 MHz SWT 7.5 ms Unit dBm

0.5 dB Offset
 D1 8.02 dBm
 D2 2.02 dBm
 1 [T1]
 2 [T1]
 2.43185972 GHz
 -0.64 dB
 10.16032064 MHz
 1MAX
 1MA
 Center 2.437 GHz 3 MHz/
 Span 30 MHz
 Date: 28.APR.2016 18:21:22

802.11b High Channel



802.11g Low Channel



Delta 2 [T1] 1.04 dB

RBW 100 kHz RF Att 30 dB

Ref Lvl 20.5 dBm 16.65330661 MHz

SWT 7.5 ms Unit dBm

0.5 dB Offset

▼1 [T1] -3.62 dBm

▲2 [T1] -4.04 dBm

D1 3.26 dBm

D2 -2.74 dBm

1MAX

Center 2.437 GHz 3 MHz/ Span 30 MHz

Date: 28.APR.2016 18:27:11

Delta 2 [T1] 0.30 dB RBW 100 kHz RF Att 30 dB
 Ref Lvl 20.5 dBm 16.65330661 MHz SWT 7.5 ms Unit dBm

0.5 dB Offset

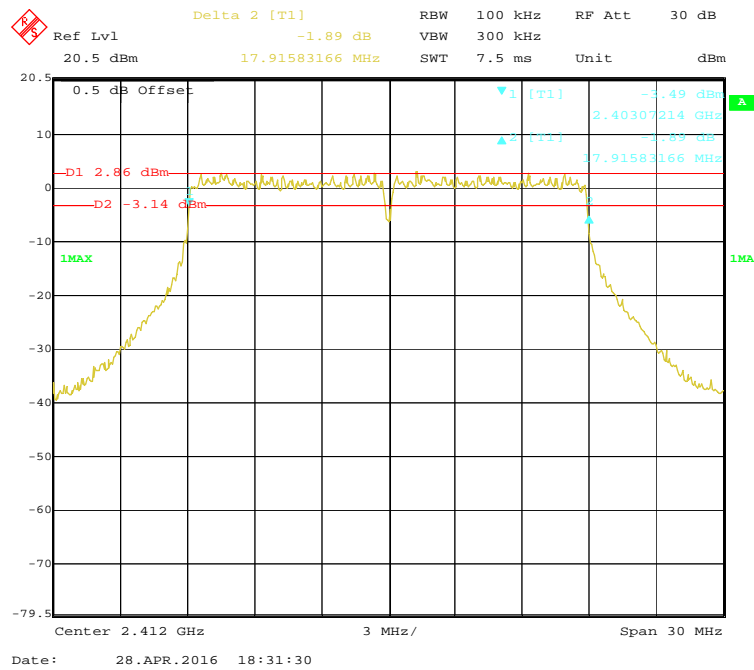
D1 3.15 dBm
 D2 -2.85 dBm

1MAX 1MA

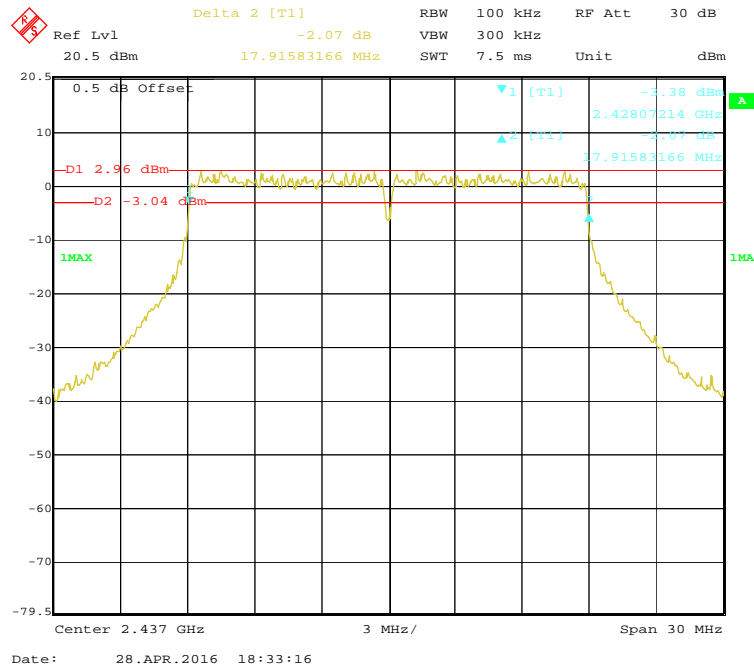
Center 2.462 GHz 3 MHz/ Span 30 MHz

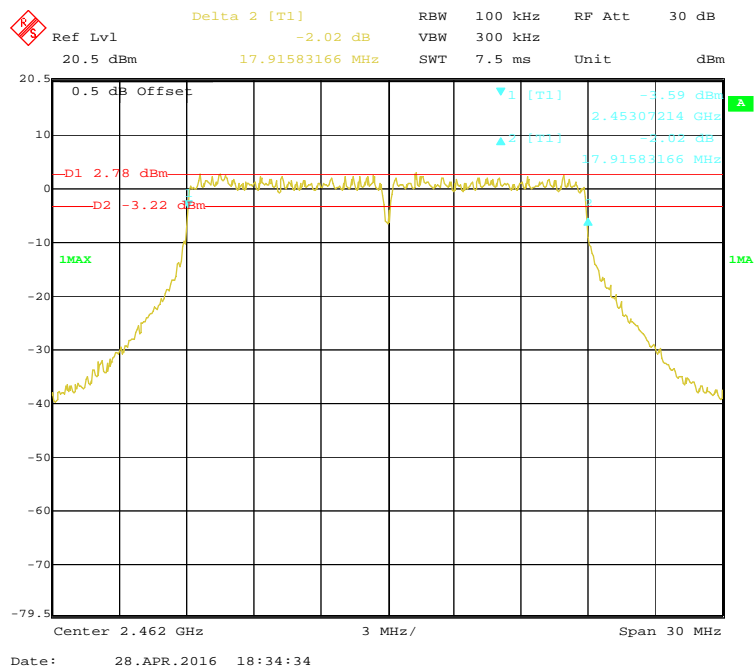
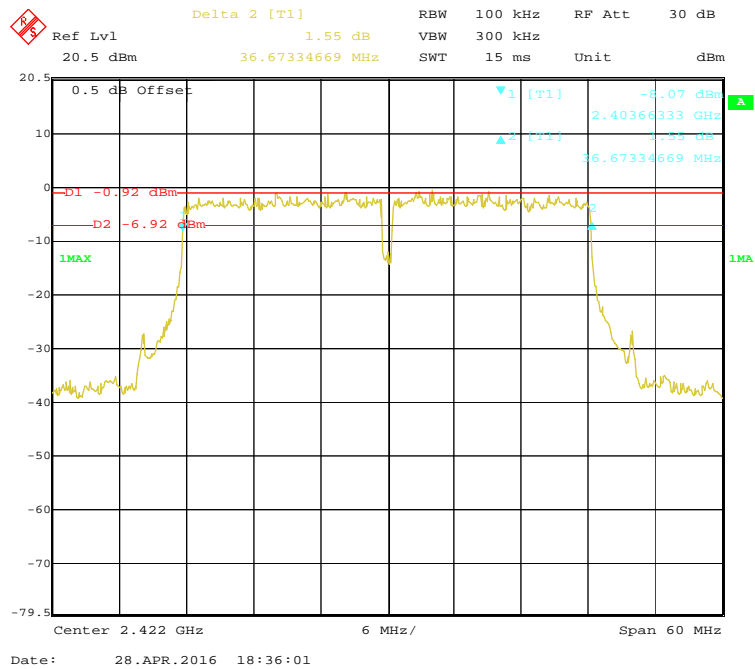
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802.11n-HT20 Low Channel

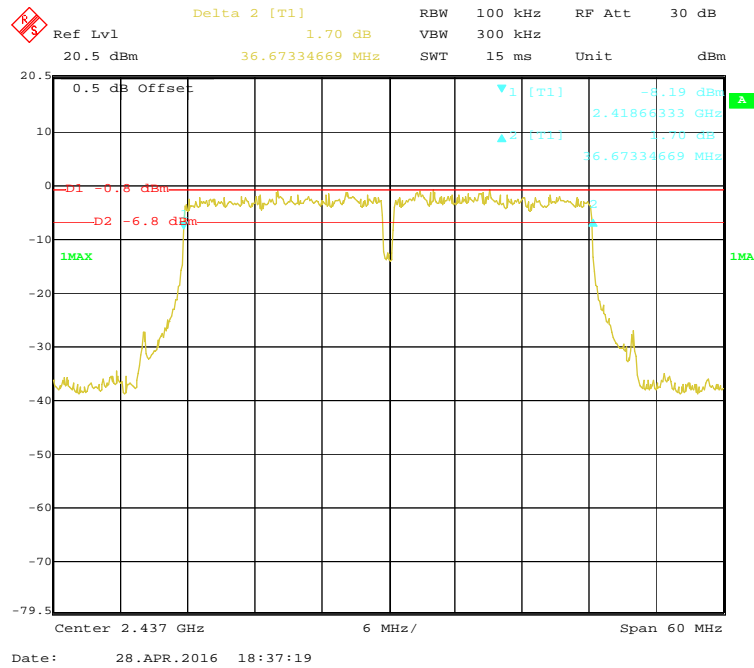


802.11n-HT20 Middle Channel

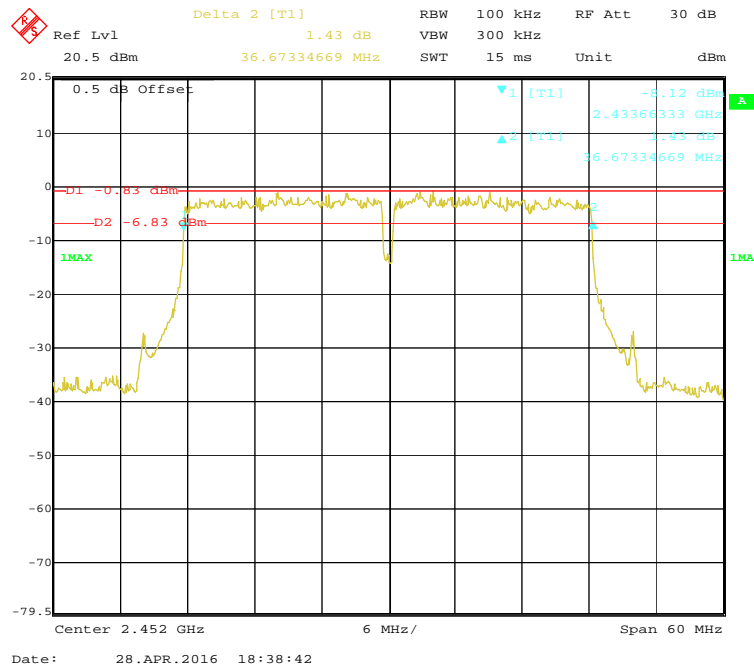


802.11n-HT20 High Channel**802.11n-HT40 Low Channel**

802.11n-HT40 Middle Channel



802.11n-HT40 High Channel



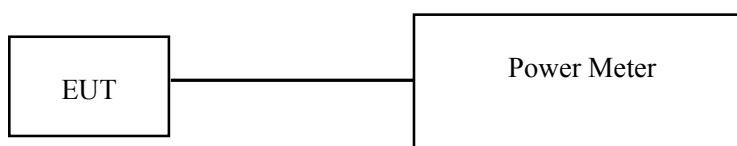
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

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

Test Procedure

1. 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 one test equipment.
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	OSP120 BASE UNIT	OSP120	101247	2014-05-27	2016-05-26
Rohde & Schwarz	Power Sensor	NRP-Z91	200014	2015-08-01	2017-07-31
BACL	RF cable	KS-LAB-012	KS-LAB-012	2015-12-16	2016-12-15

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) 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:	27 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Matt Yao on 2016-04-28

EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Average Output Power (dBm)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
802.11b					
Low	2412	18.96	23.34	30	Pass
Middle	2437	18.56	23.52	30	Pass
High	2462	18.59	23.04	30	Pass
802.11g					
Low	2412	17.65	24.46	30	Pass
Middle	2437	17.63	24.79	30	Pass
High	2462	17.78	24.41	30	Pass
802.11n-HT20					
Low	2412	17.73	24.05	30	Pass
Middle	2437	17.31	24.26	30	Pass
High	2462	17.35	23.93	30	Pass
802.11n-HT40					
Low	2422	16.91	23.19	30	Pass
Middle	2437	16.64	23.42	30	Pass
High	2452	16.72	23.14	30	Pass

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

Applicable Standard

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

Test Procedure

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	FSV40 Signal Analyzer	FSV40	101116	2015-09-02	2016-09-01
BACL	TS 8997 Cable-01	T-KS-EMC086	T-KS-EMC086	2015-12-10	2016-12-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) 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

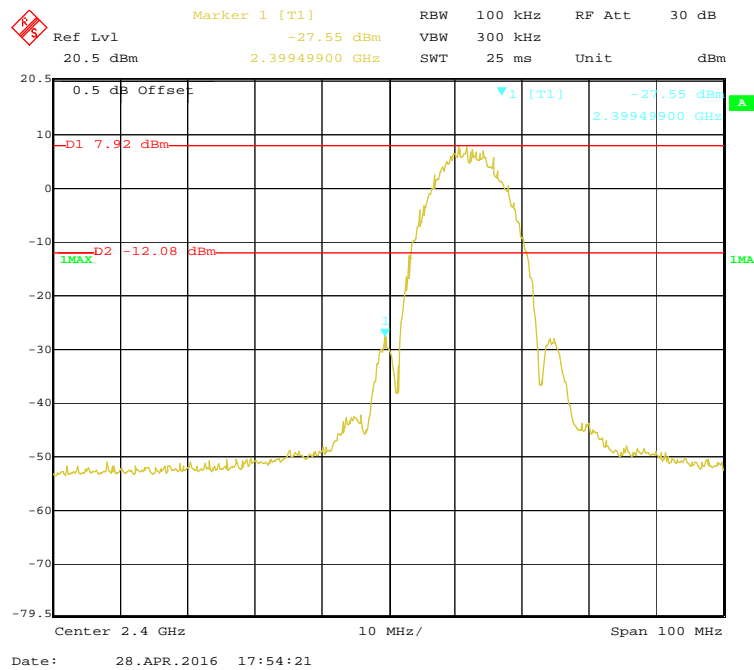
Temperature:	27 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Matt Yao on 2016-04-28.

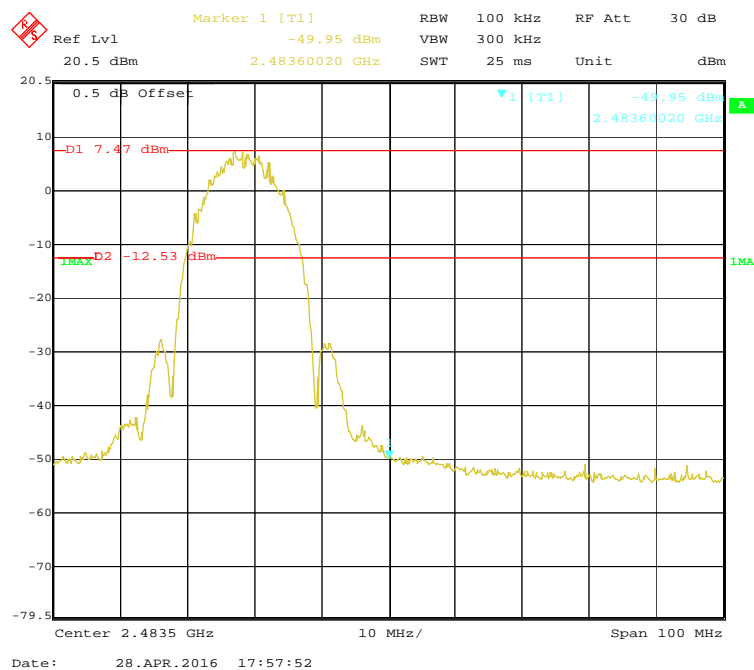
EUT operation mode: Transmitting

Please refer to the following table and plots.

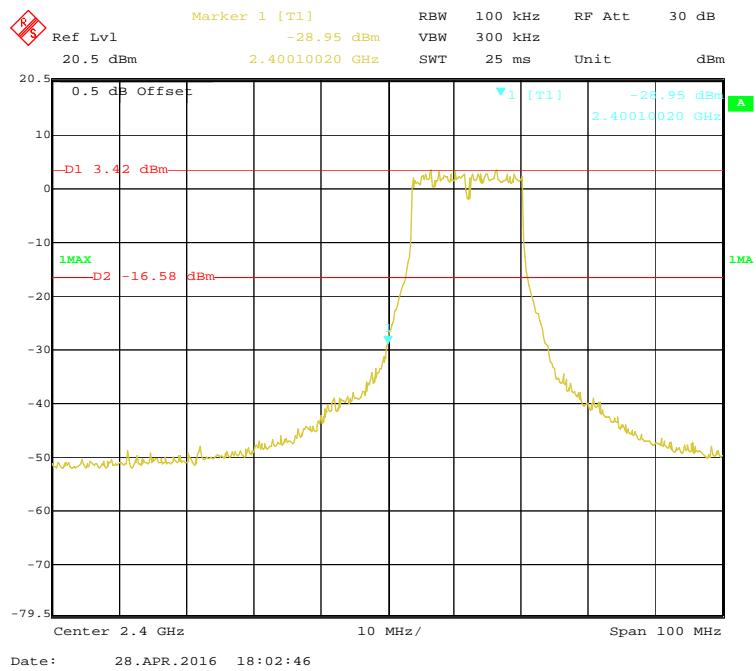
802.11b: Band Edge, Left Side



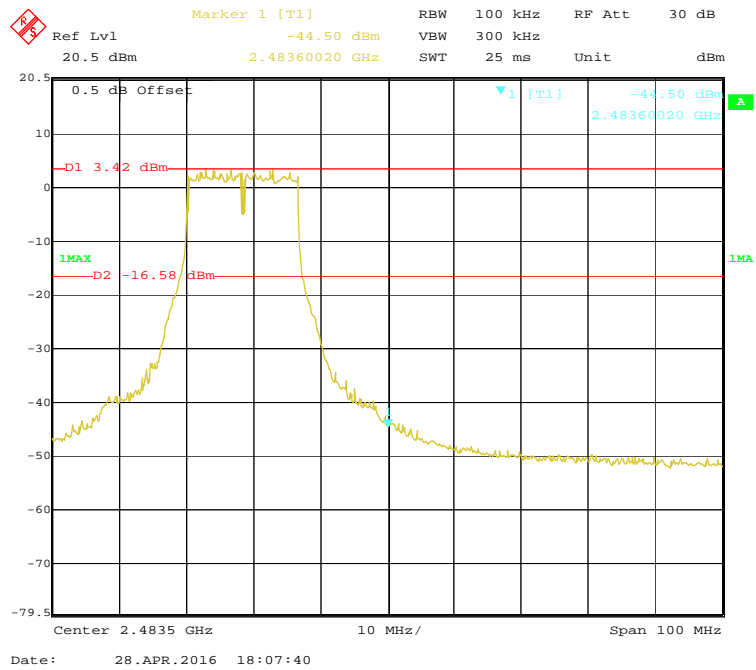
802.11b: Band Edge, Right Side

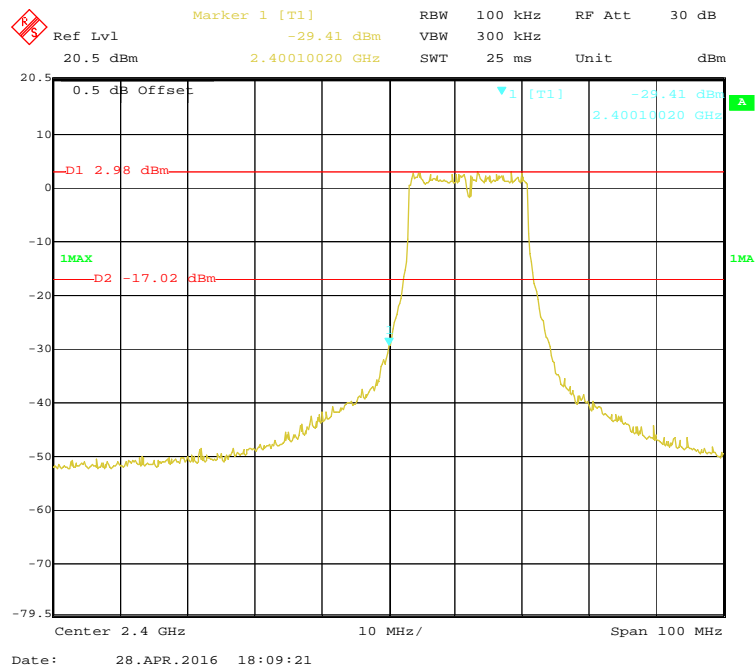
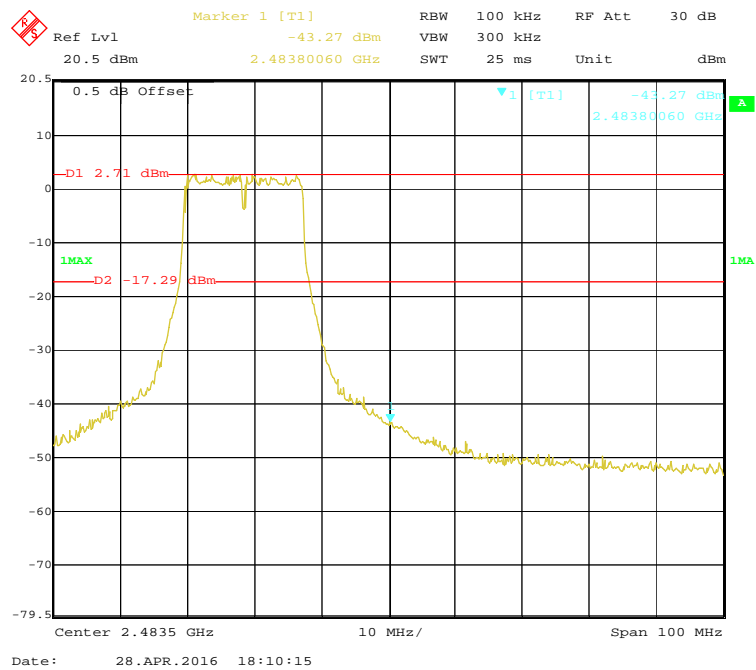


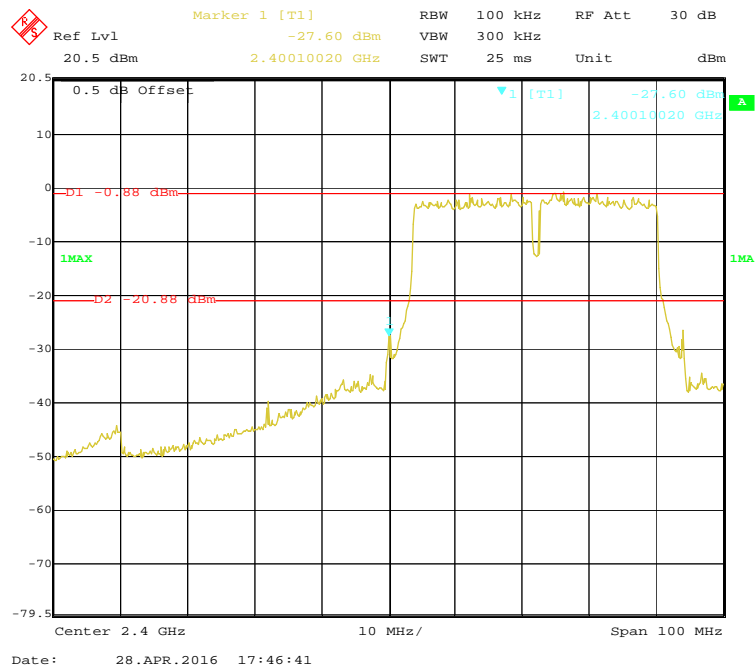
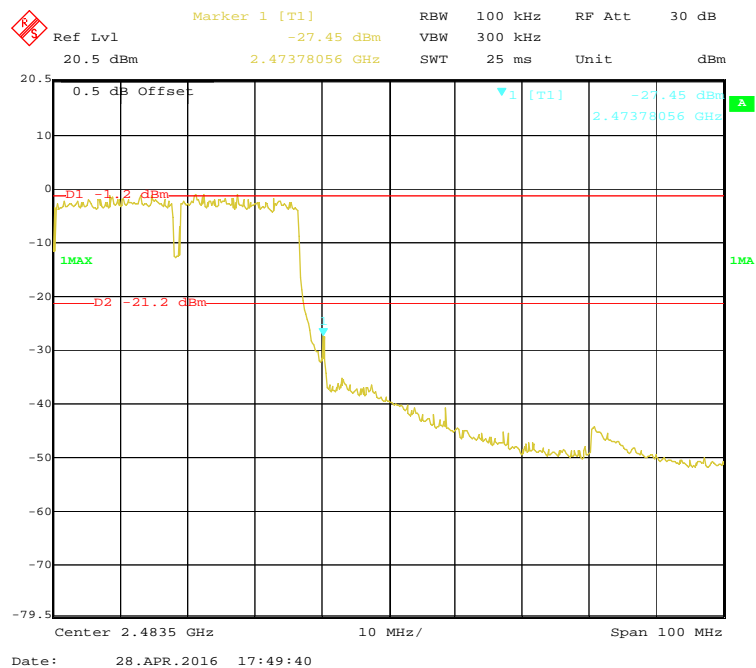
802.11g: Band Edge, Left Side



802.11g: Band Edge, Right Side



802.11n-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 v03r05 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	FSV40	101116	2015-09-02	2016-09-02
BACL	RF cable	KS-LAB-012	KS-LAB-012	2015-12-16	2016-12-15

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) 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:	27 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

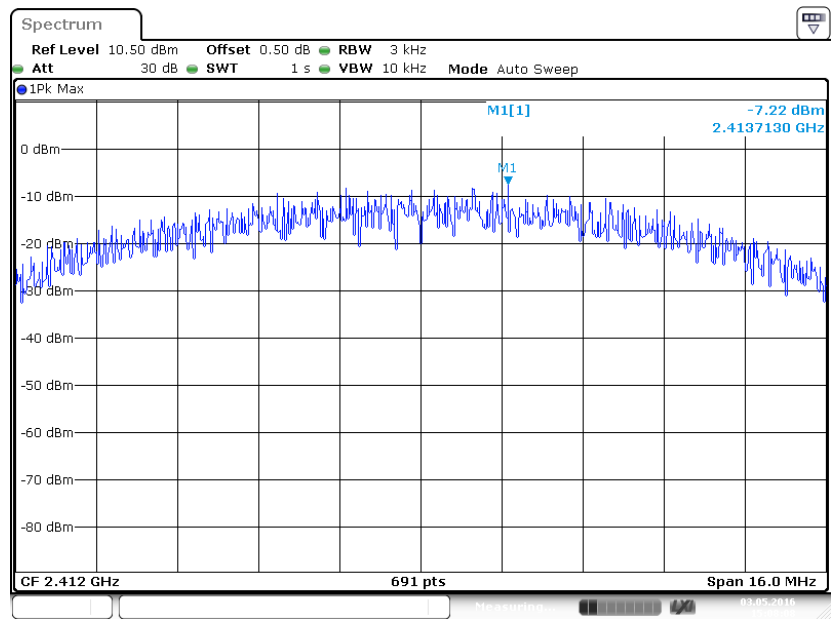
The testing was performed by Matt Yao on 2016-05-03.

EUT operation mode: Transmitting

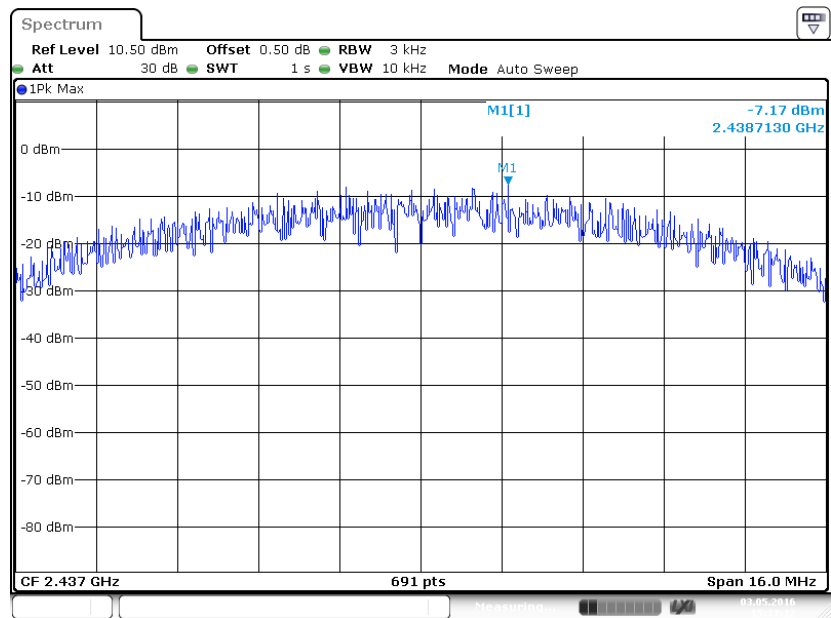
Test Result: Pass

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-7.22	≤ 8
Middle	2437	-7.17	≤ 8
High	2462	-7.31	≤ 8
802.11g mode			
Low	2412	-12.08	≤ 8
Middle	2437	-12.03	≤ 8
High	2462	-12.11	≤ 8
802.11n-HT20 mode			
Low	2412	-12.39	≤ 8
Middle	2437	-12.52	≤ 8
High	2462	-12.53	≤ 8
802.11n-HT40 mode			
Low	2422	-15.74	≤ 8
Middle	2437	-14.85	≤ 8
High	2452	-14.78	≤ 8

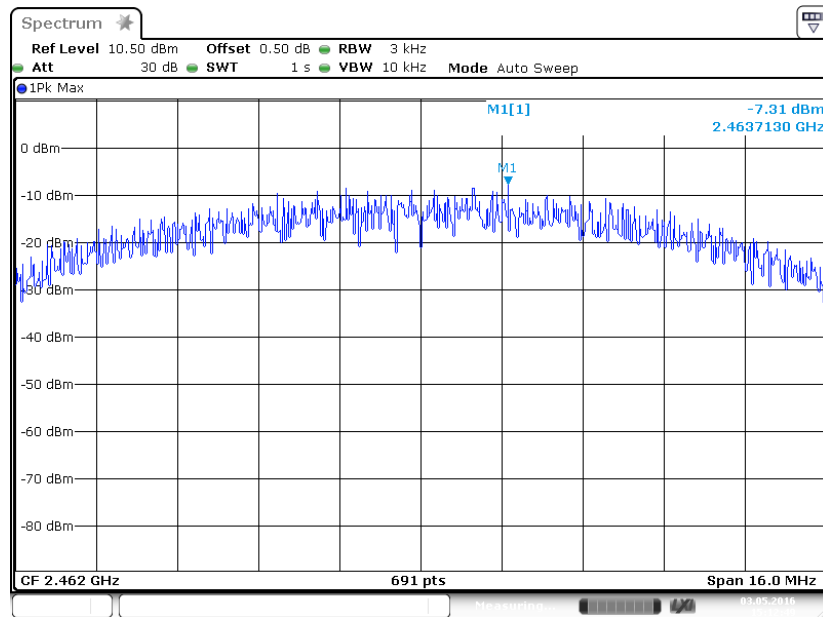
Power Spectral Density, 802.11b Low Channel



Power Spectral Density, 802.11b Middle Channel

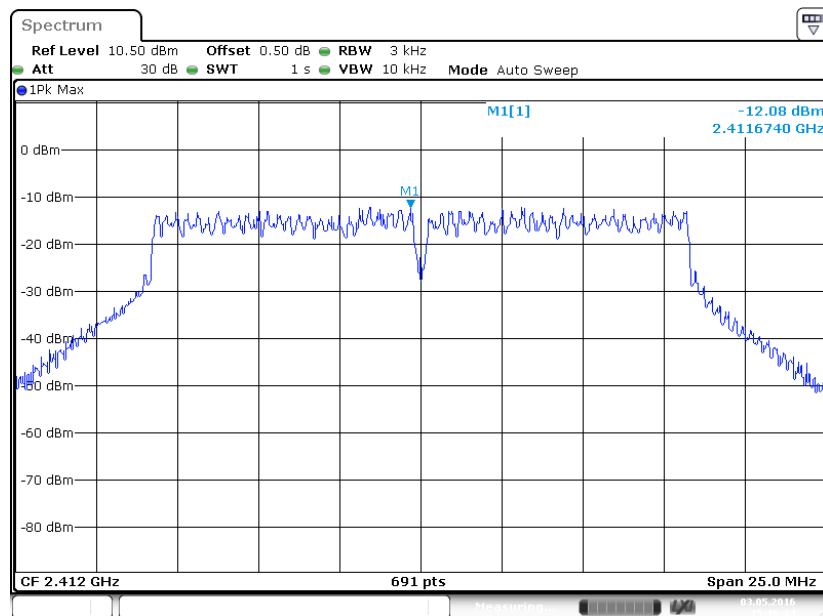


Power Spectral Density, 802.11b High Channel



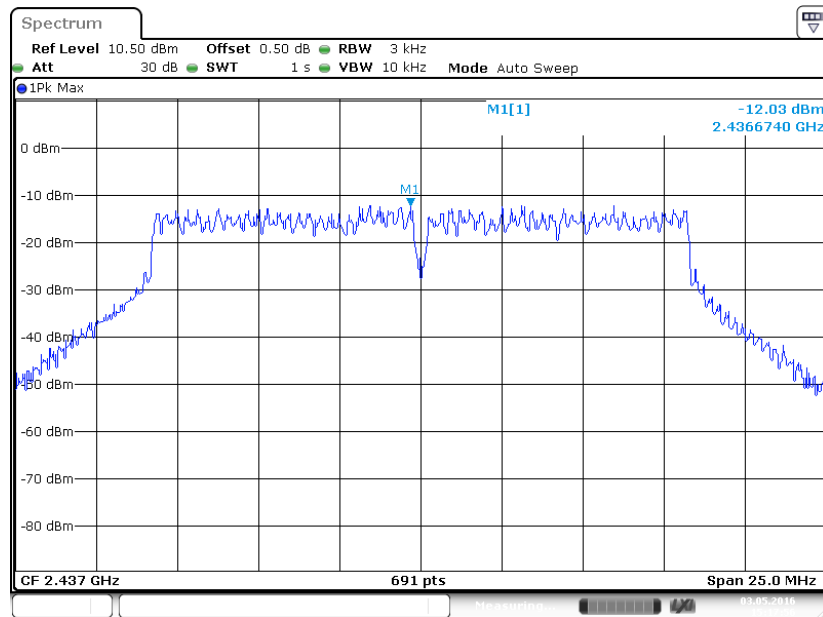
Date: 3 MAY 2016 15:12:50

Power Spectral Density, 802.11g Low Channel

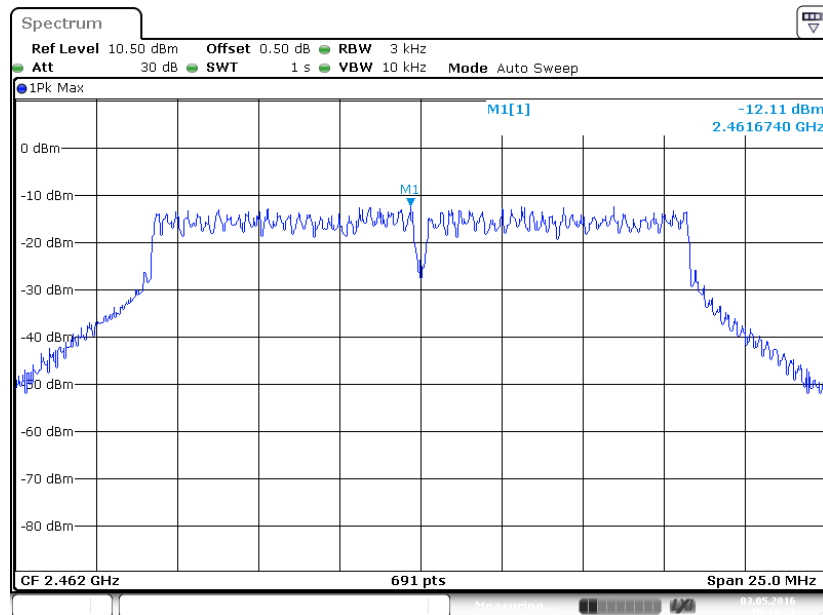


Date: 3 MAY 2016 15:16:14

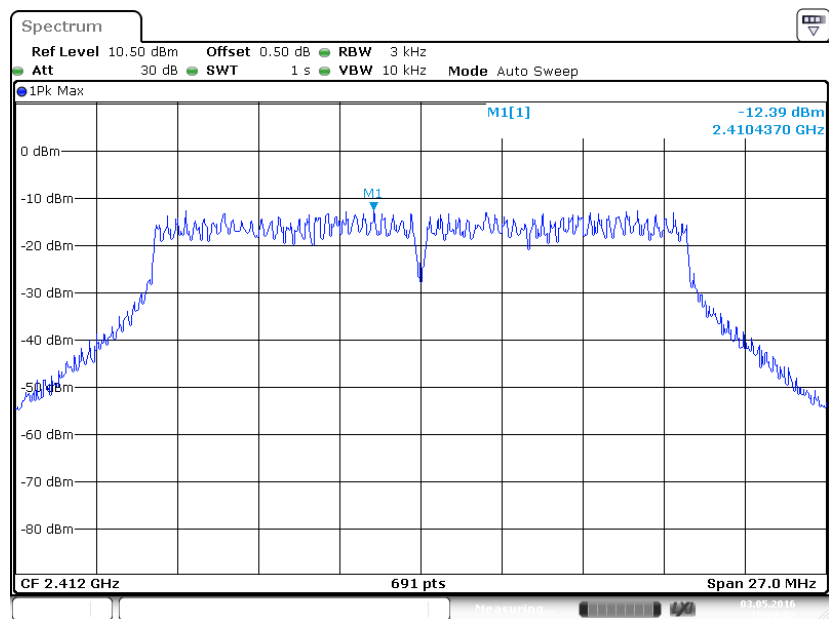
Power Spectral Density, 802.11g Middle Channel



Power Spectral Density, 802.11g High Channel

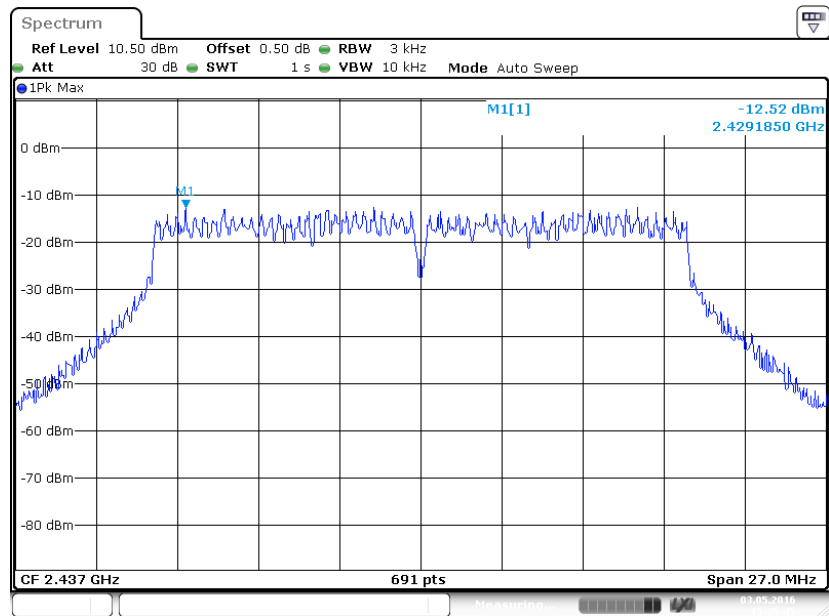


Power Spectral Density, 802.11n-HT20 Low Channel



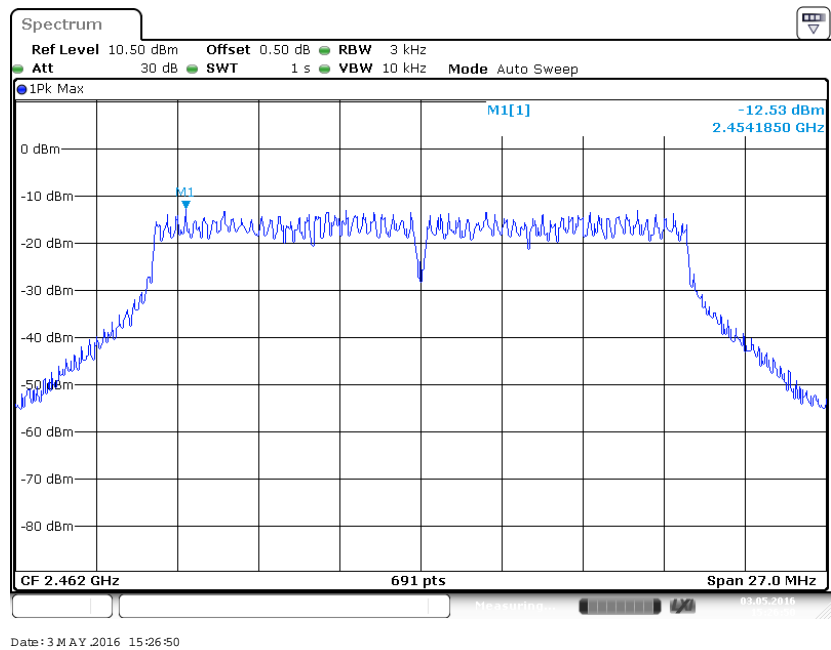
Date: 3 MAY 2016 15:22:52

Power Spectral Density, 802.11n-HT20 Middle Channel

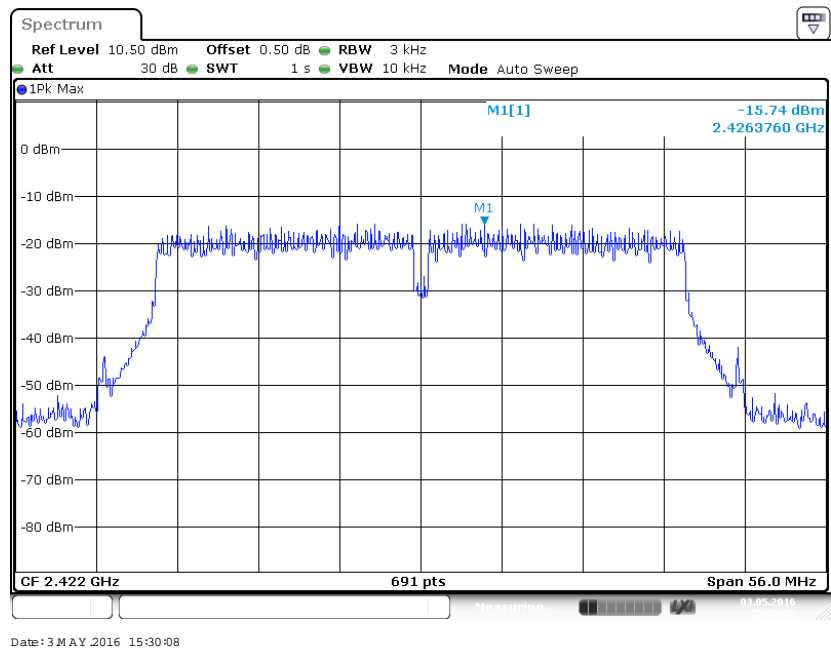


Date: 3 MAY 2016 15:25:44

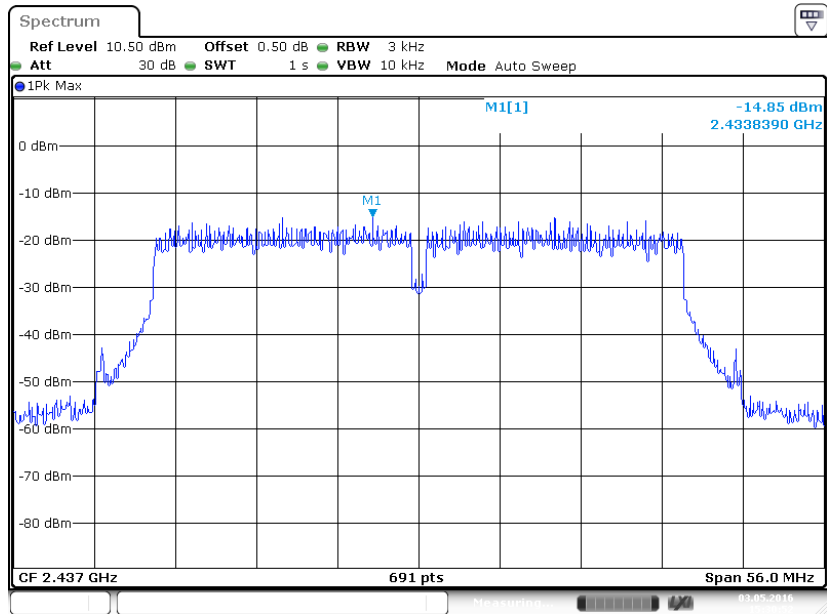
Power Spectral Density, 802.11n-HT20 High Channel



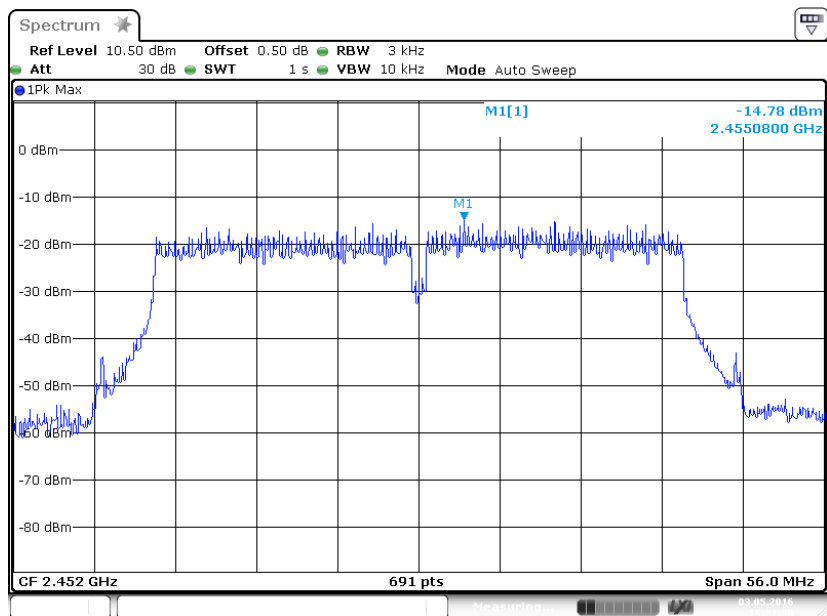
Power Spectral Density, 802.11n-HT40 Low Channel



Power Spectral Density, 802.11n-HT40 Middle Channel



Power Spectral Density, 802.11n-HT40 High Channel



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