



FCC PART 15.247

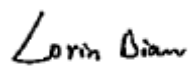
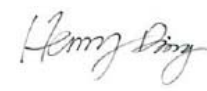
TEST REPORT

For

Humax Co., Ltd.

HUMAX Village, 11-4, Sunae-dong, Bundang-gu, Seongnam city, Gyeonggi-do, 463-825,
South Korea

FCC ID: O6ZT1

Report Type: Original Report	Product Name: 11n Wireless Roaming Router
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Report Number: <u>RDG161221005</u>	
Report Date: <u>2017-01-19</u>	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The **Humax Co., Ltd.**'s product, model number: **QUANTUM T1 (FCC ID: O6ZT1)** (the "EUT") in this report was a **11n Wireless Roaming Router**, which was measured approximately: 14.5 cm (L) x 10.5 cm (W) x 2.5 cm (H), rated input voltage: DC12V from adapter.

Adapter information:

Model: MSP-C0500IC12.0-6E-US

Input: 100-240V~ 50/60Hz 0.25A max.

Output: DC 12.0V, 0.5A

**All measurement and test data in this report was gathered from final production sample, serial number: 161221005 (assigned by the BACL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2016-12-22, and EUT conformed to test requirement.*

Objective

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

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

Related Submittal(s)/Grant(s)

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. (Chengdu). 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 ± 3.17 dB, the uncertainty of any radiation on emissions measurement is:

30M~200MHz: ± 4.7 dB;

200M~1GHz: ± 6.0 dB;

1G~6GHz: ± 5.13 dB;

6G~25GHz: ± 5.47 dB;

And the uncertainty will not be taken into consideration for all test data recorded in the report.

Test Facility

The test site used by BACL to collect test data is located in the 5040, HuiLongWan Plaza, No. 1, ShaWan Road, JinNiu District, ChengDu, China

Test site at BACL 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 April 24, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 560332. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in testing mode, which was provided by manufacturer. For 2.4GHz band, 11 channels are provided:

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

For 802.11b, 802.11g, and 802.11n ht20 modes were tested with channel 1, 6 and 11. For 802.11n ht40 mode were tested with Channel 3, 6 and 9.

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

EUT Exercise Software

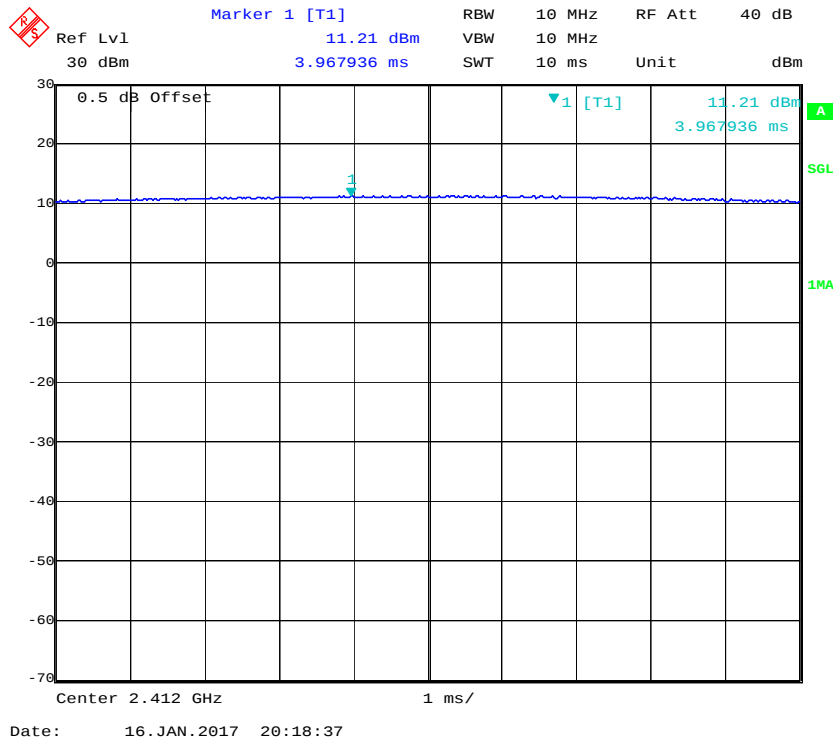
The software "MP_TEST" was used for testing, which was provided by manufacturer. The worst condition was setting by the software as following table:

Software and version			MP_TEST		
Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Power Level	
				Chain 0	Chain 1
802.11 b	Low	2412	1	54	54
	Middle	2437	1	54	54
	High	2462	1	54	54
802.11 g	Low	2412	6	54	54
	Middle	2437	6	54	54
	High	2462	6	54	54
802.11 n20	Low	2412	MCS0	52	52
	Middle	2437	MCS0	52	52
	High	2462	MCS0	52	52
802.11 n40	Low	2422	MCS0	48	48
	Middle	2437	MCS0	48	48
	High	2452	MCS0	48	48

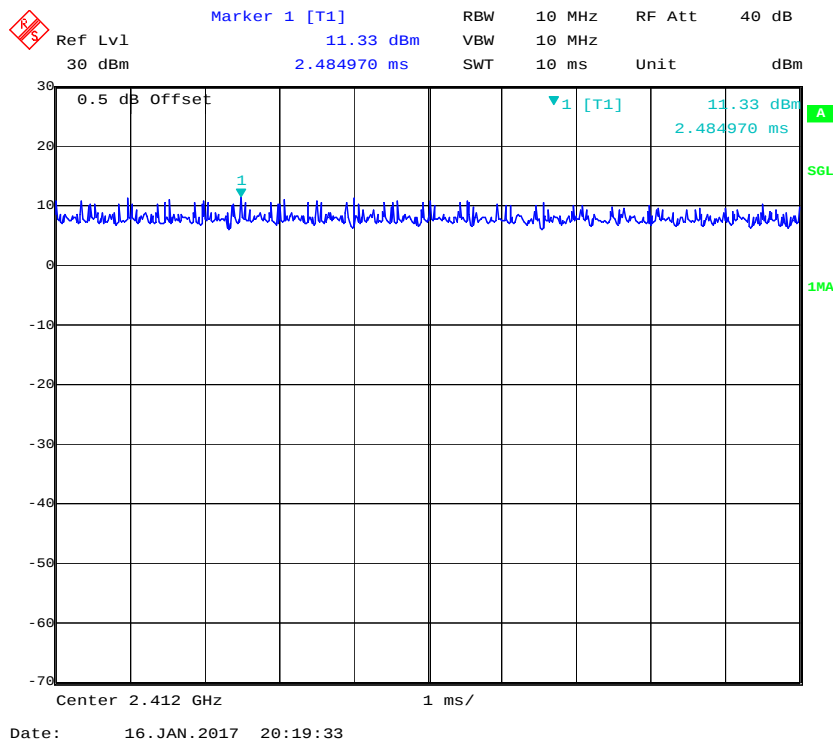
The duty cycle as below:

Test Mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)
802.11b	10	10	100%
802.11g	10	10	100%
802.11n ht20	10	10	100%
802.11n ht40	10	10	100%

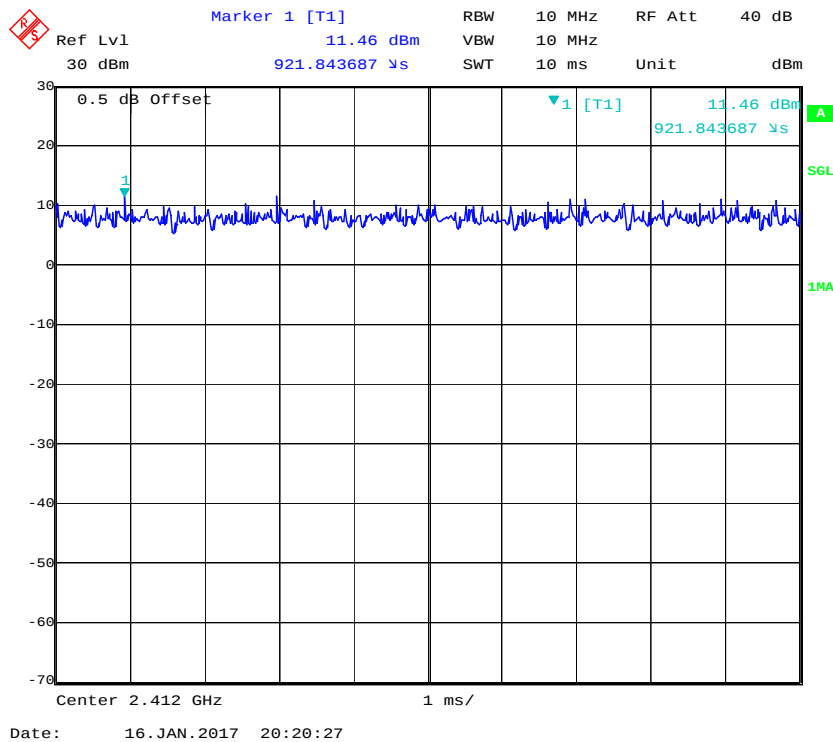
802.11b



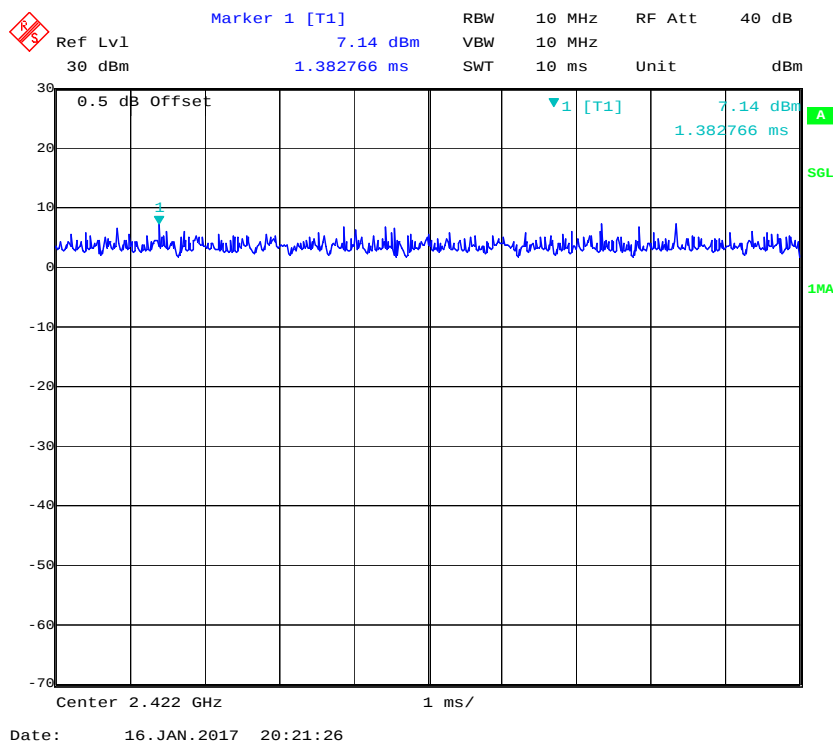
802.11g



802.11n ht20



802.11n ht40



Equipment Modifications

No modification was made to the EUT tested.

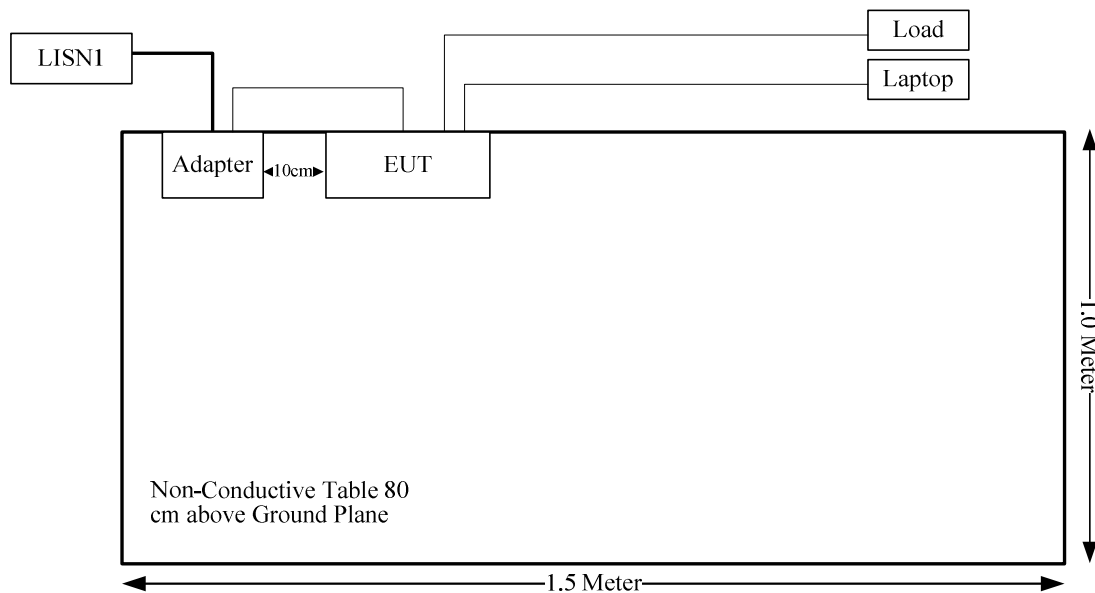
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
lenovo	laptop	TP00067A	PF-0MRADG 16/08

External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Adapter Cable	no	no	1.59	Adapter	EUT
RJ 45 Cable	no	no	10	EUT	Laptop
RJ 45 Cable*4	no	no	10	EUT	Load

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum conducted output power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

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, §2.1091)

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

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

According to §1.1310 and §2.1091 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:

Frequency (MHz)	Antenna Gain		Tune-up Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBi)	(numeric)	(dBm)	(mW)			
2412-2462	4	2.51	24	251.19	20.00	0.1256	1.0

Note: The maximum tune-up power including tolerance is 24dBm, that declared by 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.

Antenna Connector Construction

The EUT has 2 un-detachable antennas, and the antenna gain is 4.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

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

If U_{lab} is less than or equal to U_{cisp} of Table 1, then:

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

If U_{lab} is greater than U_{cisp} of Table 1, then:

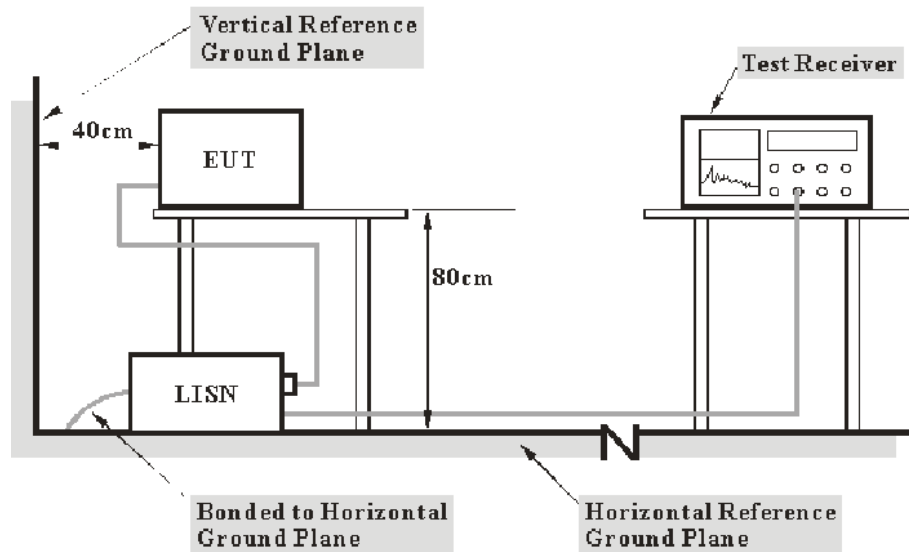
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

Based on CISPR 16-4-2:2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Chengdu) is ± 3.17 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cisp}

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

EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2013 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 an AC 120 V/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 first LISN.

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

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

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN

C_f : Correction Factor

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS 30	836858/0016	2016-12-02	2017-12-01
Rohde & Schwarz	L.I.S.N.	ENV216	3560.6550.06	2016-12-02	2017-12-01
Rohde & Schwarz	PULSE LIMITER	ESH3Z2	357.8810.52	2016-10-31	2017-10-30
N/A	Conducted Cable	NO.5	N/A	2016-11-10	2017-11-09
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

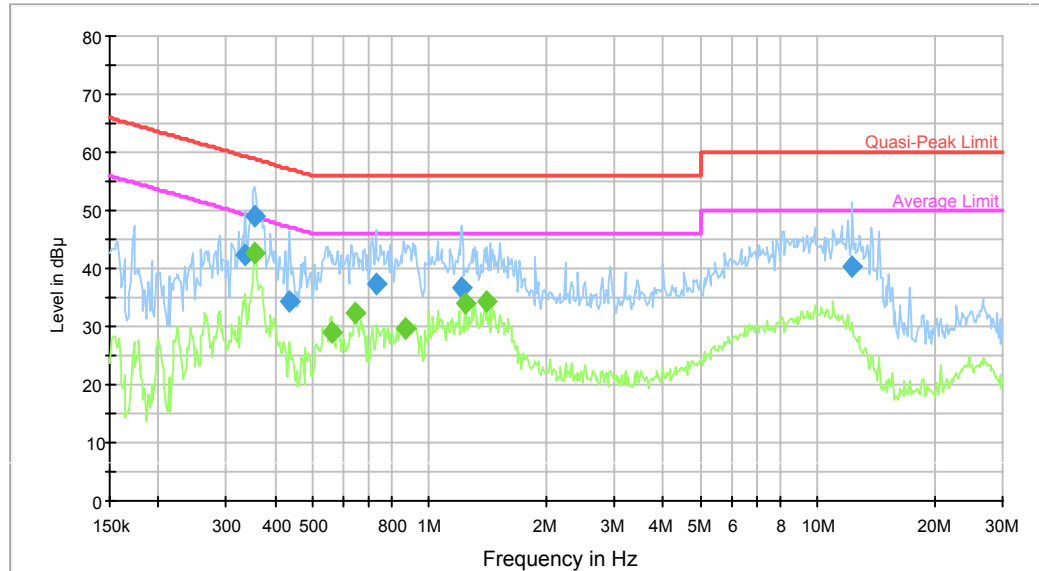
Environmental Conditions

Temperature:	22.1 °C
Relative Humidity:	31 %
ATM Pressure:	101.8 kPa

The testing was performed by Lorin Bian on 2016-12-28.

Test Mode: Transmitting

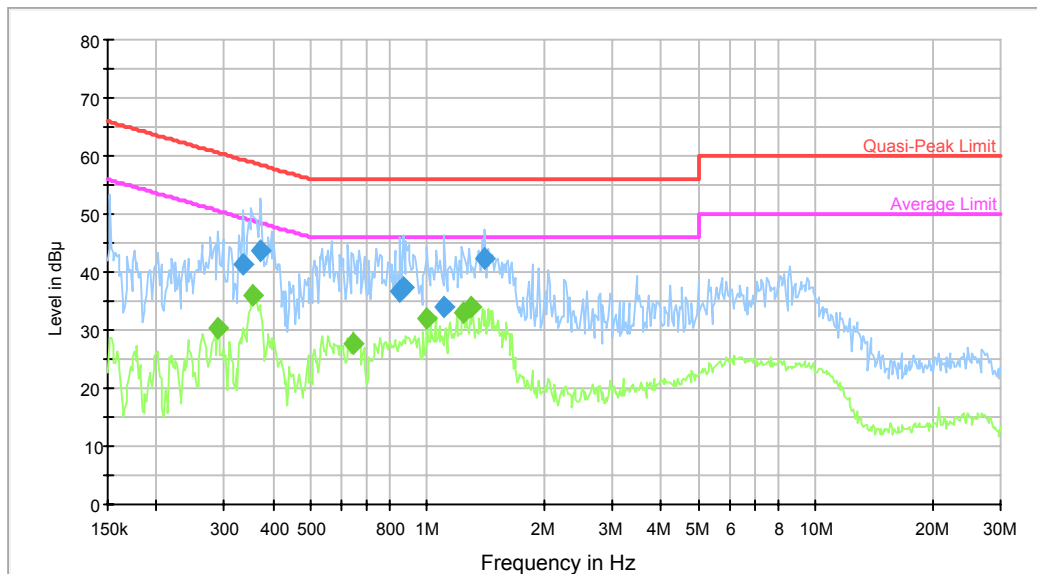
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.335433	42.4	9.000	L1	19.7	16.9	59.3	Compliance
0.354674	49.0	9.000	L1	19.7	9.9	58.9	Compliance
0.436318	34.3	9.000	L1	19.7	22.8	57.1	Compliance
0.726569	37.4	9.000	L1	19.7	18.6	56.0	Compliance
1.209904	36.8	9.000	L1	19.7	19.2	56.0	Compliance
12.296055	40.5	9.000	L1	20.0	19.5	60.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.354674	42.7	9.000	L1	19.7	6.2	48.9	Compliance
0.558572	29.1	9.000	L1	19.7	16.9	46.0	Compliance
0.644717	32.5	9.000	L1	19.7	13.5	46.0	Compliance
0.865782	29.6	9.000	L1	19.7	16.4	46.0	Compliance
1.239175	33.9	9.000	L1	19.7	12.1	46.0	Compliance
1.407671	34.3	9.000	L1	19.7	11.7	46.0	Compliance

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.335433	41.3	9.000	N	19.6	18.0	59.3	Compliance
0.372042	43.6	9.000	N	19.6	14.9	58.5	Compliance
0.852094	36.6	9.000	N	19.6	19.4	56.0	Compliance
0.865782	37.4	9.000	N	19.6	18.6	56.0	Compliance
1.108371	34.0	9.000	N	19.7	22.0	56.0	Compliance
1.407671	42.2	9.000	N	19.7	13.8	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.288307	30.5	9.000	N	19.6	20.1	50.6	Compliance
0.354674	35.9	9.000	N	19.6	13.0	48.9	Compliance
0.644717	27.6	9.000	N	19.6	18.4	46.0	Compliance
0.999305	31.9	9.000	N	19.7	14.1	46.0	Compliance
1.239175	33.0	9.000	N	19.6	13.0	46.0	Compliance
1.289541	34.0	9.000	N	19.6	12.0	46.0	Compliance

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

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

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

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

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

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

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

30M~200MHz: ± 4.7 dB;

200M~1GHz: ± 6.0 dB;

1G~6GHz: ± 5.13 dB;

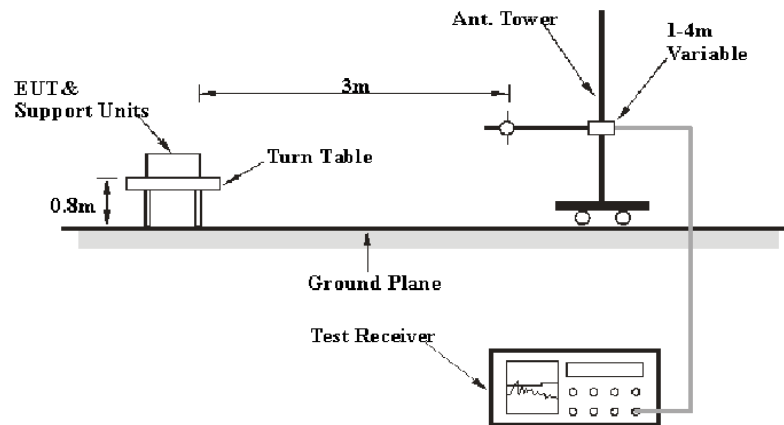
6G~25GHz: ± 5.47 dB;

Table 2 – Values of U_{cisp}

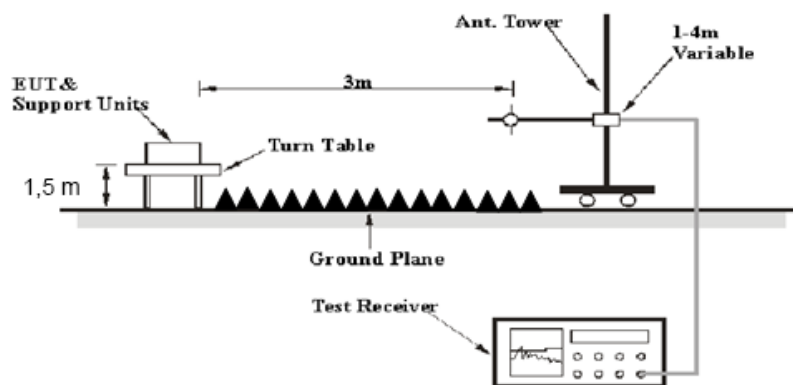
Measurement	U_{cisp}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. 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 spacing between the peripherals was 10 cm.

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:

30MHz-1000MHz:

Detector	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 25GHz:

Detector	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

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.

Corrected Amplitude & Margin Calculation

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

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

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Broadband Antenna	JB3	A101808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
ETS	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-0113024	2014-06-16	2017-06-15
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2016-05-20	2017-05-19
HP	Amplifier	8449B	3008A00277	2016-12-02	2017-12-01
EMCT	Semi-Anechoic Chamber	966	N/A	2015-04-24	2018-04-23
N/A	RF Cable (below 1GHz)	NO.1	N/A	2016-11-10	2017-11-09
N/A	RF Cable (below 1GHz)	NO.4	N/A	2016-11-10	2017-11-09
N/A	RF Cable (above 1GHz)	NO.2	N/A	2016-11-10	2017-11-09
WEINSCHEL ENGINEERING	Attenuator	1A10dB	AA4135	2016-11-10	2017-11-09
Rohde & Schwarz	EMC32	N/A	V 8.54.0	N/A	N/A

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	22.9~23.4 °C
Relative Humidity:	47~50 %
ATM Pressure:	101~101.2 kPa

* The testing was performed by Lorin Bian from 2017-01-03 to 2017-01-09.

Test Mode: Transmitting

30MHz-25GHz:

802.11b Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	74.85	PK	H	23.50	3.00	0.00	101.35	N/A	N/A
2412	63.20	AV	H	23.50	3.00	0.00	89.7	N/A	N/A
2412	88.13	PK	V	23.50	3.00	0.00	114.63	N/A	N/A
2412	83.50	AV	V	23.50	3.00	0.00	110	N/A	N/A
2390	34.55	PK	V	23.57	3.00	0.00	61.12	74	12.88
2390	21.77	AV	V	23.57	3.00	0.00	48.34	54	5.66
4824	47.48	PK	V	30.84	5.11	26.87	56.56	74	17.44
4824	38.65	AV	V	30.84	5.11	26.87	47.73	54	6.27
7236	43.93	PK	V	34.77	6.18	26.36	58.52	74	15.48
7236	32.53	AV	V	34.77	6.18	26.36	47.12	54	6.88
2365	43.28	PK	V	23.66	3.01	26.87	43.08	74	30.92
2365	34.25	AV	V	23.66	3.01	26.87	34.05	54	19.95
181.32	53.06	QP	H	11.29	0.92	27.91	37.36	43.50	6.14
249.22	41.99	QP	H	12.30	1.23	27.53	27.99	46.00	18.01
Middle Channel: 2437 MHz									
2437	75.03	PK	H	23.41	3.00	0.00	101.44	N/A	N/A
2437	67.80	AV	H	23.41	3.00	0.00	94.21	N/A	N/A
2437	86.76	PK	V	23.41	3.00	0.00	113.17	N/A	N/A
2437	78.57	AV	V	23.41	3.00	0.00	104.98	N/A	N/A
4874	45.14	PK	V	31.00	5.09	26.87	54.36	74	19.64
4874	34.02	AV	V	31.00	5.09	26.87	43.24	54	10.76
7311	42.00	PK	V	34.92	6.21	26.40	56.73	74	17.27
7311	31.18	AV	V	34.92	6.21	26.40	45.91	54	8.09
3243	45.10	PK	V	25.56	3.79	26.50	47.95	74	26.05
3243	36.28	AV	V	25.56	3.79	26.50	39.13	54	14.87
4237	39.43	PK	V	29.38	5.09	26.69	47.21	74	26.79
4237	31.05	AV	V	29.38	5.09	26.69	38.83	54	15.17
181.32	53.33	QP	H	11.29	0.92	27.91	37.63	43.50	5.87
249.22	42.13	QP	H	12.30	1.23	27.53	28.13	46.00	17.87
High Channel: 2462 MHz									
2462	72.73	PK	H	23.33	2.99	0.00	99.05	N/A	N/A
2462	66.21	AV	H	23.33	2.99	0.00	92.53	N/A	N/A
2462	88.56	PK	V	23.33	2.99	0.00	114.88	N/A	N/A
2462	80.76	AV	V	23.33	2.99	0.00	107.08	N/A	N/A
2483.5	34.83	PK	V	23.26	2.99	0.00	61.08	74	12.92
2483.5	24.42	AV	V	23.26	2.99	0.00	50.67	54	3.33
4924	42.10	PK	V	31.16	5.07	26.88	51.45	74	22.55
4924	31.59	AV	V	31.16	5.07	26.88	40.94	54	13.06
7386	41.69	PK	V	35.07	6.25	26.43	56.58	74	17.42
7386	32.71	AV	V	35.07	6.25	26.43	47.6	54	6.4
2563	43.28	PK	V	23.33	3.05	26.83	42.83	74	31.17
2563	34.98	AV	V	23.33	3.05	26.83	34.53	54	19.47
181.32	54.17	QP	H	11.29	0.92	27.91	38.47	43.50	5.03
249.22	42.55	QP	H	12.30	1.23	27.53	28.55	46.00	17.45

802.11g Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	71.32	PK	H	23.50	3.00	0.00	97.82	N/A	N/A
2412	59.66	AV	H	23.50	3.00	0.00	86.16	N/A	N/A
2412	85.21	PK	V	23.50	3.00	0.00	111.71	N/A	N/A
2412	75.23	AV	V	23.50	3.00	0.00	101.73	N/A	N/A
2390	34.97	PK	V	23.57	3.00	0.00	61.54	74	12.46
2390	24.16	AV	V	23.57	3.00	0.00	50.73	54	3.27
4824	44.05	PK	V	30.84	5.11	26.87	53.13	74	20.87
4824	35.14	AV	V	30.84	5.11	26.87	44.22	54	9.78
7236	41.51	PK	V	34.77	6.18	26.36	56.1	74	17.9
7236	32.57	AV	V	34.77	6.18	26.36	47.16	54	6.84
2735	42.64	PK	V	23.67	3.20	26.66	42.85	74	31.15
2735	33.98	AV	V	23.67	3.20	26.66	34.19	54	19.81
181.32	53.7	QP	H	11.29	0.92	27.91	38.00	43.50	5.50
249.22	42.99	QP	H	12.30	1.23	27.53	28.99	46.00	17.01
Middle Channel: 2437 MHz									
2437	73.93	PK	H	23.41	3.00	0.00	100.34	N/A	N/A
2437	64.42	AV	H	23.41	3.00	0.00	90.83	N/A	N/A
2437	83.49	PK	V	23.41	3.00	0.00	109.9	N/A	N/A
2437	74.45	AV	V	23.41	3.00	0.00	100.86	N/A	N/A
4874	42.88	PK	V	31.00	5.09	26.87	52.1	74	21.9
4874	31.05	AV	V	31.00	5.09	26.87	40.27	54	13.73
7311	40.65	PK	V	34.92	6.21	26.40	55.38	74	18.62
7311	31.19	AV	V	34.92	6.21	26.40	45.92	54	8.08
4371	43.35	PK	V	29.59	5.18	26.77	51.35	74	22.65
4371	34.37	AV	V	29.59	5.18	26.77	42.37	54	11.63
3942	43.01	PK	V	28.77	4.83	26.55	50.06	74	23.94
3942	34.25	AV	V	28.77	4.83	26.55	41.3	54	12.7
181.32	53.23	QP	H	11.29	0.92	27.91	37.53	43.50	5.97
249.22	43.43	QP	H	12.30	1.23	27.53	29.43	46.00	16.57
High Channel: 2462 MHz									
2462	73.08	PK	H	23.33	2.99	0.00	99.4	N/A	N/A
2462	62.98	AV	H	23.33	2.99	0.00	89.3	N/A	N/A
2462	84.61	PK	V	23.33	2.99	0.00	110.93	N/A	N/A
2462	75.08	AV	V	23.33	2.99	0.00	101.4	N/A	N/A
2483.5	35.05	PK	V	23.26	2.99	0.00	61.3	74	12.7
2483.5	24.57	AV	V	23.26	2.99	0.00	50.82	54	3.18
4924	41.58	PK	V	31.16	5.07	26.88	50.93	74	23.07
4924	32.60	AV	V	31.16	5.07	26.88	41.95	54	12.05
7386	41.68	PK	V	35.07	6.25	26.43	56.57	74	17.43
7386	32.71	AV	V	35.07	6.25	26.43	47.6	54	6.4
4289	42.66	PK	V	29.46	5.12	26.72	50.52	74	23.48
4289	33.78	AV	V	29.46	5.12	26.72	41.64	54	12.36
181.32	52.17	QP	H	11.29	0.92	27.91	36.47	43.50	7.03
249.22	42.65	QP	H	12.30	1.23	27.53	28.65	46.00	17.35

802.11 n ht20 Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	70.75	PK	H	23.50	3.00	0.00	97.25	N/A	N/A
2412	60.05	AV	H	23.50	3.00	0.00	86.55	N/A	N/A
2412	84.47	PK	V	23.50	3.00	0.00	110.97	N/A	N/A
2412	71.58	AV	V	23.50	3.00	0.00	98.08	N/A	N/A
2390	38.53	PK	V	23.57	3.00	0.00	65.1	74	8.9
2390	23.82	AV	V	23.57	3.00	0.00	50.39	54	3.61
4824	43.03	PK	V	30.84	5.11	26.87	52.11	74	21.89
4824	34.04	AV	V	30.84	5.11	26.87	43.12	54	10.88
7236	41.21	PK	V	34.77	6.18	26.36	55.8	74	18.2
7236	32.11	AV	V	34.77	6.18	26.36	46.7	54	7.3
181.32	52.44	QP	H	11.29	0.92	27.91	36.74	43.50	6.76
249.22	42.79	QP	H	12.30	1.23	27.53	28.79	46.00	17.21
Middle Channel: 2437 MHz									
2437	71.14	PK	H	23.41	3.00	0.00	97.55	N/A	N/A
2437	60.78	AV	H	23.41	3.00	0.00	87.19	N/A	N/A
2437	83.88	PK	V	23.41	3.00	0.00	110.29	N/A	N/A
2437	72.29	AV	V	23.41	3.00	0.00	98.7	N/A	N/A
4874	44.14	PK	V	31.00	5.09	26.87	53.36	74	20.64
4874	34.39	AV	V	31.00	5.09	26.87	43.61	54	10.39
7311	40.65	PK	V	34.92	6.21	26.40	55.38	74	18.62
7311	32.31	AV	V	34.92	6.21	26.40	47.04	54	6.96
3842	41.55	PK	V	28.37	4.69	26.56	48.05	74	25.95
3842	32.88	AV	V	28.37	4.69	26.56	39.38	54	14.62
2834	43.92	PK	V	23.87	3.28	26.57	44.5	74	29.5
2834	34.88	AV	V	23.87	3.28	26.57	35.46	54	18.54
181.32	53.28	QP	H	11.29	0.92	27.91	37.58	43.50	5.92
249.22	43.21	QP	H	12.30	1.23	27.53	29.21	46.00	16.79
High Channel: 2462 MHz									
2462	73.21	PK	H	23.33	2.99	0.00	99.53	N/A	N/A
2462	62.65	AV	H	23.33	2.99	0.00	88.97	N/A	N/A
2462	84.50	PK	V	23.33	2.99	0.00	110.82	N/A	N/A
2462	73.37	AV	V	23.33	2.99	0.00	99.69	N/A	N/A
2483.5	40.77	PK	V	23.26	2.99	0.00	67.02	74	6.98
2483.5	24.87	AV	V	23.26	2.99	0.00	51.12	54	2.88
4924	43.00	PK	V	31.16	5.07	26.88	52.35	74	21.65
4924	33.99	AV	V	31.16	5.07	26.88	43.34	54	10.66
7386	40.71	PK	V	35.07	6.25	26.43	55.6	74	18.4
7386	32.69	AV	V	35.07	6.25	26.43	47.58	54	6.42
3183	44.19	PK	V	25.22	3.70	26.48	46.63	74	27.37
3183	35.36	AV	V	25.22	3.70	26.48	37.8	54	16.2
181.32	52.81	QP	H	11.29	0.92	27.91	37.11	43.50	6.39
249.22	43.65	QP	H	12.30	1.23	27.53	29.65	46.00	16.35

802.11 n ht40 Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2422 MHz									
2422	75.47	PK	H	23.47	3.00	0.00	101.94	N/A	N/A
2422	66.25	AV	H	23.47	3.00	0.00	92.72	N/A	N/A
2422	81.60	PK	V	23.47	3.00	0.00	108.07	N/A	N/A
2422	71.38	AV	V	23.47	3.00	0.00	97.85	N/A	N/A
2390	38.23	PK	V	23.57	3.00	0.00	64.8	74	9.2
2390	24.46	AV	V	23.57	3.00	0.00	51.03	54	2.97
4844	39.32	PK	V	30.90	5.10	26.87	48.45	74	25.55
4844	30.13	AV	V	30.90	5.10	26.87	39.26	54	14.74
7266	31.36	PK	V	34.83	6.19	26.38	46	74	28
7266	22.18	AV	V	34.83	6.19	26.38	36.82	54	17.18
4286	34.05	PK	V	29.46	5.12	26.72	41.91	74	32.09
4286	23.80	AV	V	29.46	5.12	26.72	31.66	54	22.34
181.32	52.34	QP	H	11.29	0.92	27.91	36.64	43.50	6.86
249.22	44.09	QP	H	12.30	1.23	27.53	30.09	46.00	15.91
Middle Channel: 2437 MHz									
2437	70.92	PK	H	23.41	3.00	0.00	97.33	N/A	N/A
2437	59.78	AV	H	23.41	3.00	0.00	86.19	N/A	N/A
2437	84.67	PK	V	23.41	3.00	0.00	111.08	N/A	N/A
2437	72.93	AV	V	23.41	3.00	0.00	99.34	N/A	N/A
4874	39.21	PK	V	31.00	5.09	26.87	48.43	74	25.57
4874	29.40	AV	V	31.00	5.09	26.87	38.62	54	15.38
7311	31.22	PK	V	34.92	6.21	26.40	45.95	74	28.05
7311	21.66	AV	V	34.92	6.21	26.40	36.39	54	17.61
2864	36.02	PK	V	23.93	3.31	26.54	36.72	74	37.28
2864	25.38	AV	V	23.93	3.31	26.54	26.08	54	27.92
4234	33.89	PK	V	29.37	5.08	26.69	41.65	74	32.35
4234	23.53	AV	V	29.37	5.08	26.69	31.29	54	22.71
3156	35.74	PK	V	25.07	3.66	26.47	38	74	36
3156	25.51	AV	V	25.07	3.66	26.47	27.77	54	26.23
181.32	53.84	QP	H	11.29	0.92	27.91	38.14	43.50	5.36
249.22	43.64	QP	H	12.30	1.23	27.53	29.64	46.00	16.36
High Channel: 2452 MHz									
2452	68.52	PK	H	23.36	3.00	0.00	94.88	N/A	N/A
2452	59.84	AV	H	23.36	3.00	0.00	86.2	N/A	N/A
2452	81.23	PK	V	23.36	3.00	0.00	107.59	N/A	N/A
2452	70.95	AV	V	23.36	3.00	0.00	97.31	N/A	N/A
2483.5	40.62	PK	V	23.26	2.99	0.00	66.87	74	7.13
2483.5	26.06	AV	V	23.26	2.99	0.00	52.31	54	1.69
4904	38.89	PK	V	31.09	5.08	26.87	48.19	74	25.81
4904	29.51	AV	V	31.09	5.08	26.87	38.81	54	15.19
7356	31.65	PK	V	35.01	6.23	26.42	46.47	74	27.53
7356	21.84	AV	V	35.01	6.23	26.42	36.66	54	17.34
3571	34.41	PK	V	27.28	4.29	26.58	39.4	74	34.6
3571	24.15	AV	V	27.28	4.29	26.58	29.14	54	24.86
181.32	54.11	QP	H	11.29	0.92	27.91	38.41	43.50	5.09
249.22	43.78	QP	H	12.30	1.23	27.53	29.78	46.00	16.22

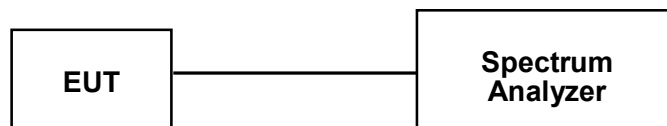
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
N/A	RF Cable	N/A	N/A	Each Time	/

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	22.1~25.6 °C
Relative Humidity:	38~39 %
ATM Pressure:	100.9~101.2 kPa

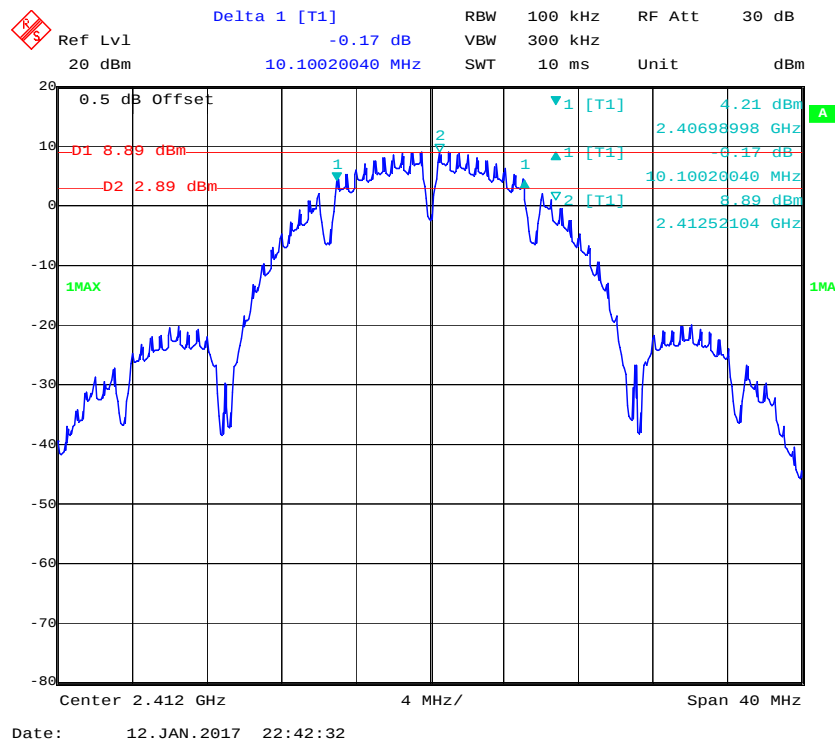
* The testing was performed by Lorin Bian from 2017-01-12 to 2017-01-16.

Test Mode: Transmitting (Test performed at Chain 0 only)

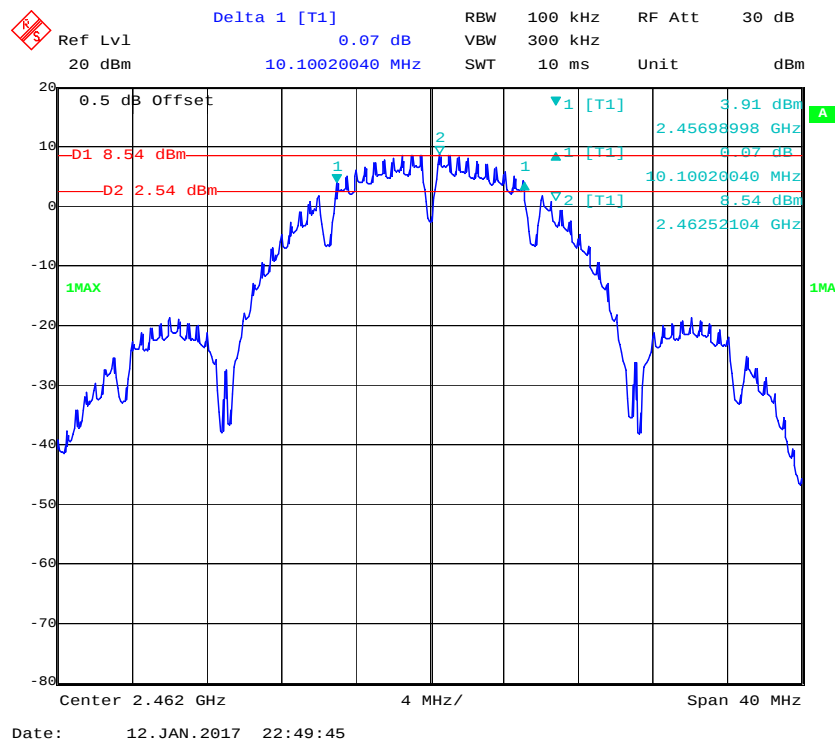
Test Result: Compliant. Please refer to the following table and plots.

Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	10.1	≥ 0.5
	Middle	2437	10.1	≥ 0.5
	High	2462	10.1	≥ 0.5
802.11g	Low	2412	16.67	≥ 0.5
	Middle	2437	16.67	≥ 0.5
	High	2462	16.67	≥ 0.5
802.11n20	Low	2412	17.95	≥ 0.5
	Middle	2437	17.95	≥ 0.5
	High	2462	17.87	≥ 0.5
802.11 n40	Low	2422	36.55	≥ 0.5
	Middle	2437	36.55	≥ 0.5
	High	2452	36.55	≥ 0.5

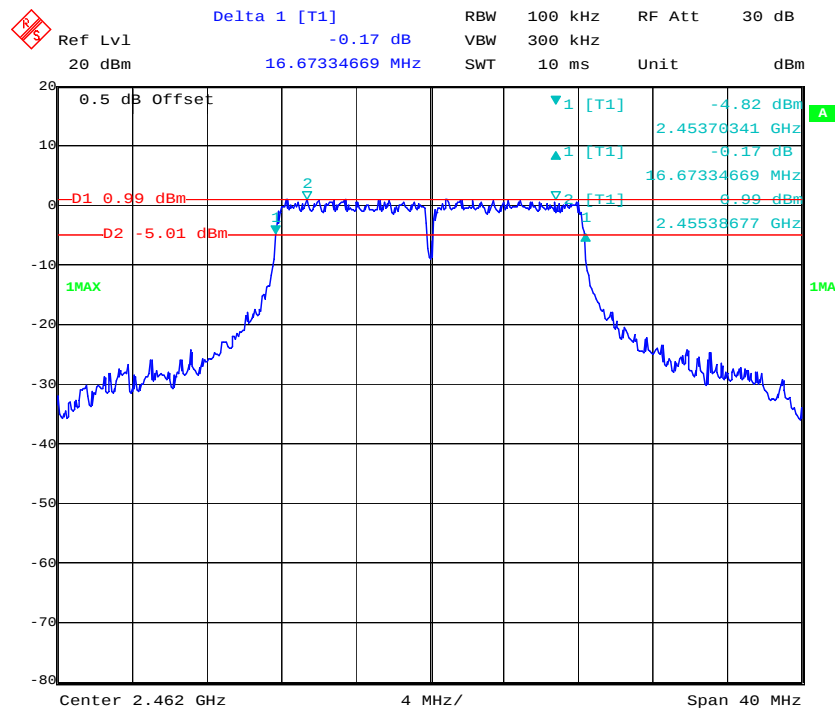
802.11b Low Channel



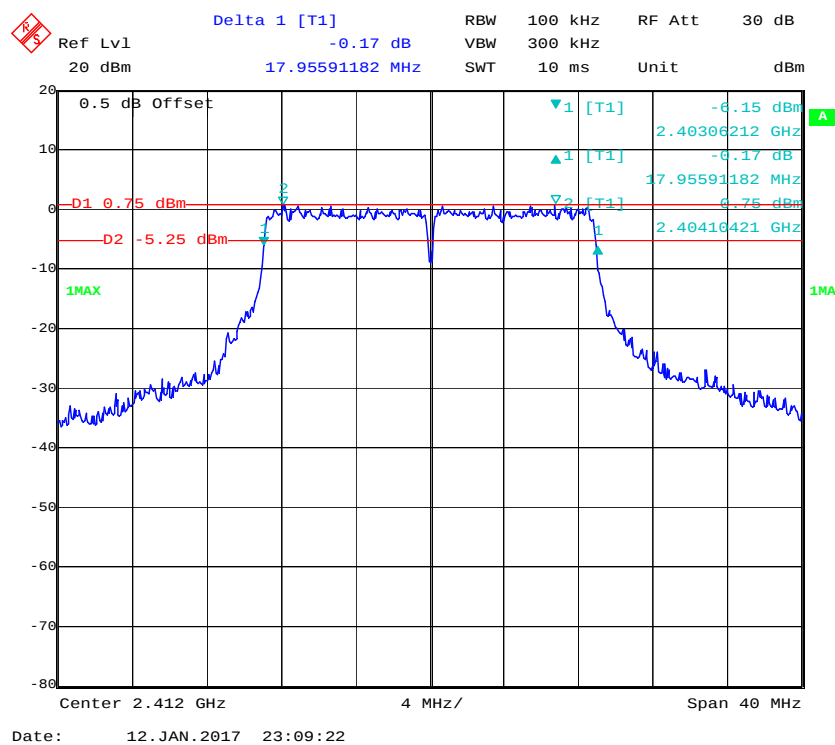
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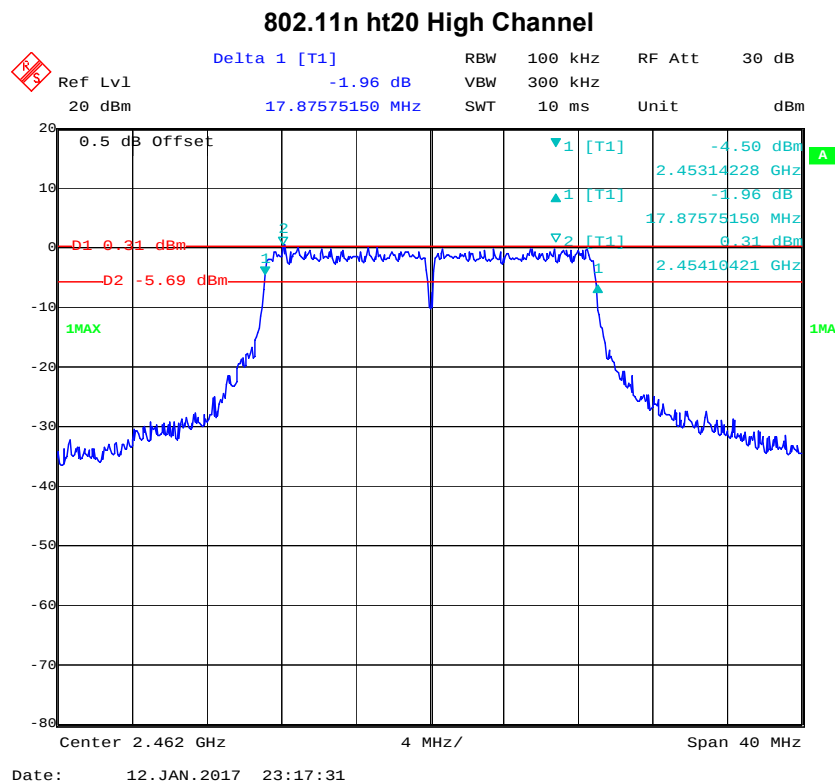
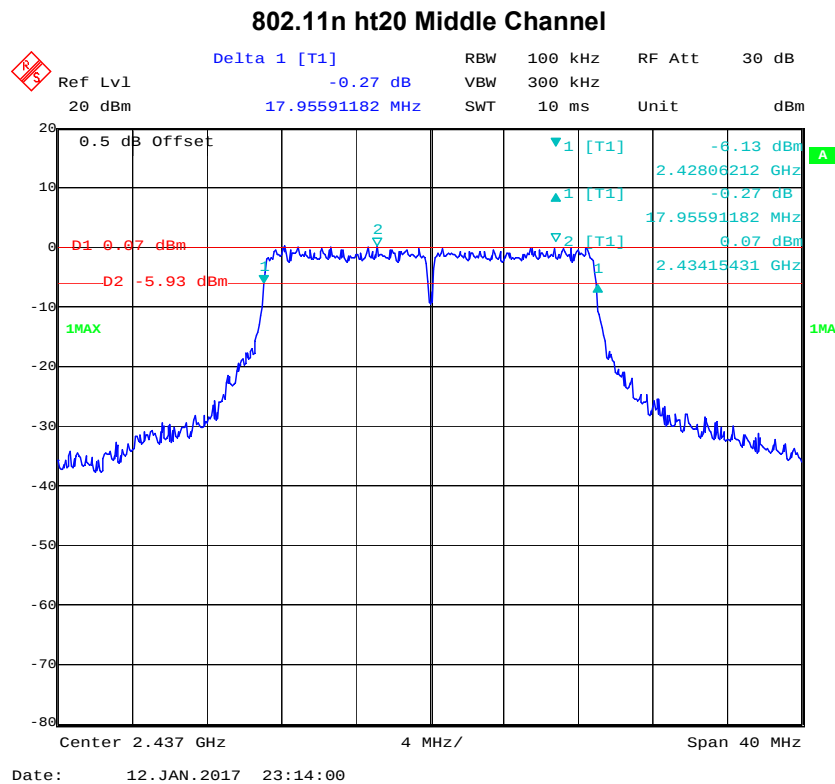


802.11g High Channel

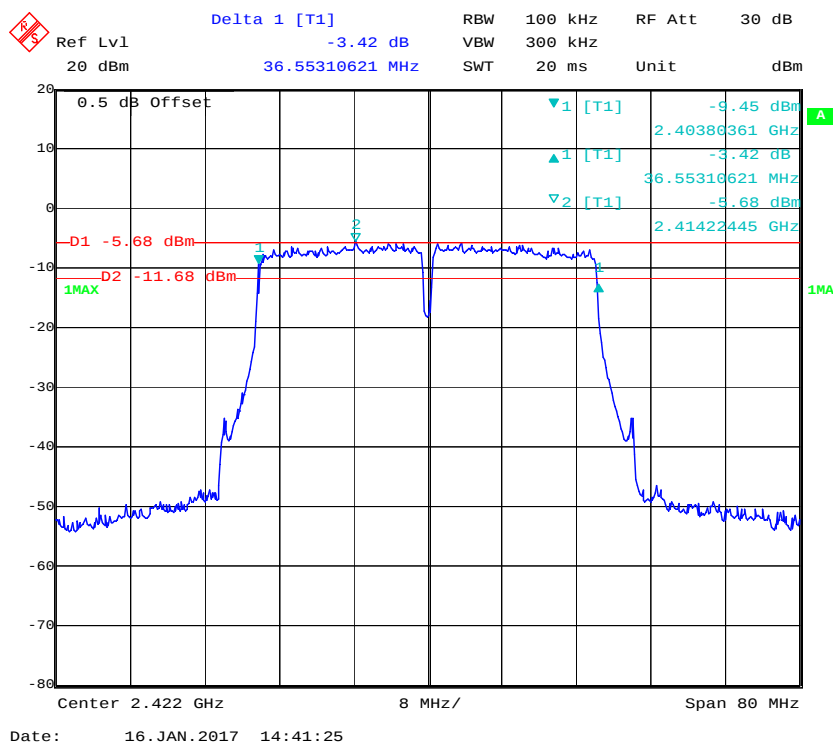


802.11n ht20 Low Channel

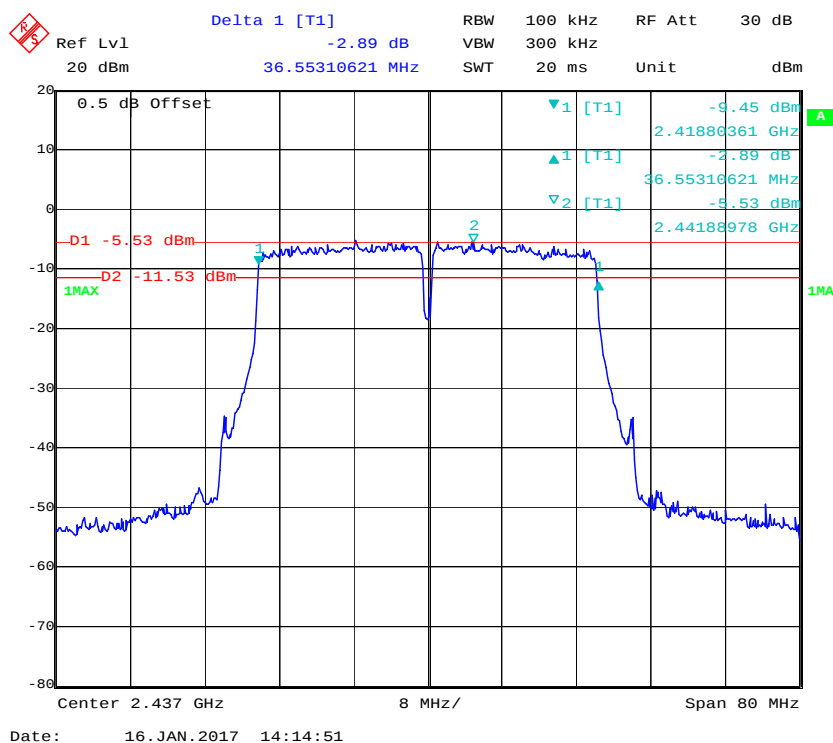




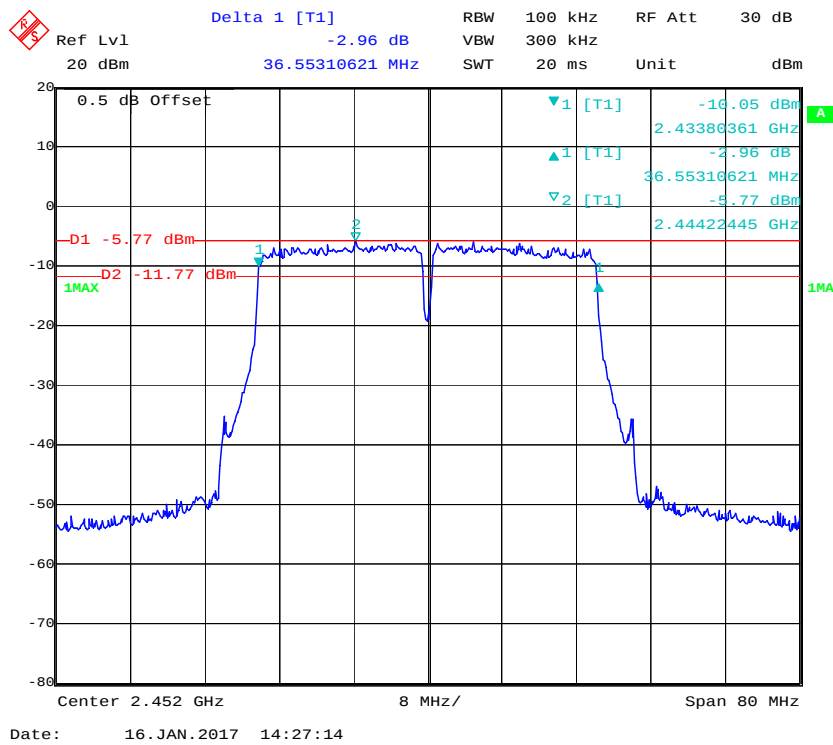
802.11n ht40 Low Channel



802.11n ht40 Middle Channel



802.11n ht40 High Channel



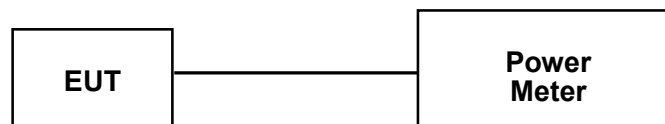
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

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 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
Agilent	Wideband Power Sensor	N1921A	MY54170074	2017-01-03	2018-01-03
Agilent	P-Series Power Meter	N1912A	MY5000798	2017-01-03	2018-01-03
N/A	RF Cable	N/A	N/A	Each Time	/

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	22.1 °C
Relative Humidity:	39 %
ATM Pressure:	101.2 kPa

* The testing was performed by Lorin Bian on 2017-01-16.

Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table.

Test mode	Channel	Frequency (MHz)	Max Peak Conducted Output Power (dBm)		Total (dBm)	Limit (dBm)
			Chain 0	Chain 1		
802.11b	Low	2412	22.8	22.83	/	30
	Middle	2437	22.68	22.39	/	30
	High	2462	22.46	23.12	/	30
802.11g	Low	2412	22.26	20.63	/	30
	Middle	2437	21.78	22.27	/	30
	High	2462	21.75	22.95	/	30
802.11n20	Low	2412	21.44	19.45	23.57	30
	Middle	2437	20.94	20.15	23.57	30
	High	2462	20.83	20.73	23.79	30
802.11n40	Low	2422	19.13	19.68	22.42	30
	Middle	2437	19.51	20.5	23.04	30
	High	2452	18.91	20.76	22.94	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

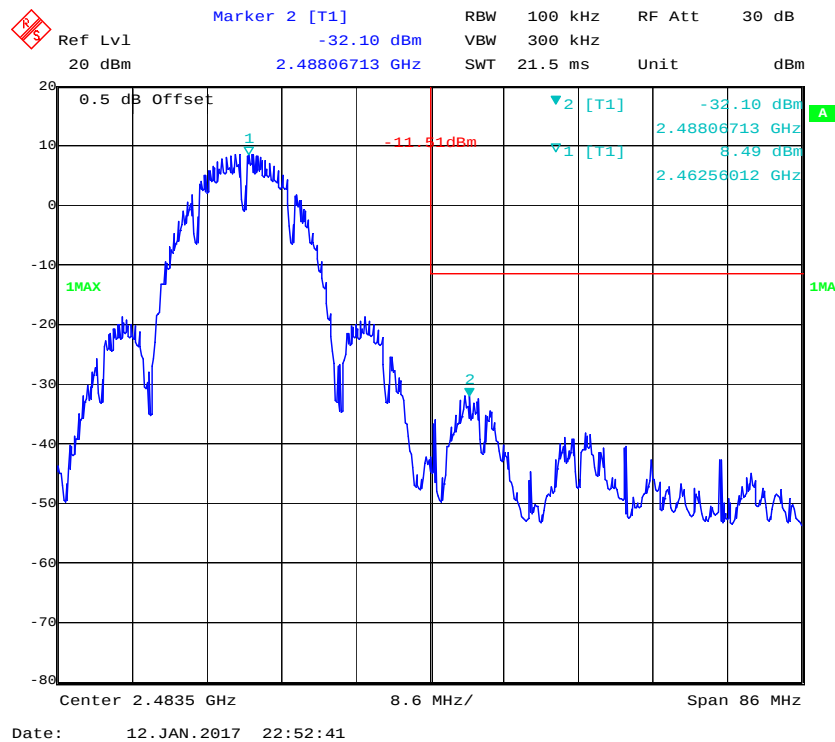
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then 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

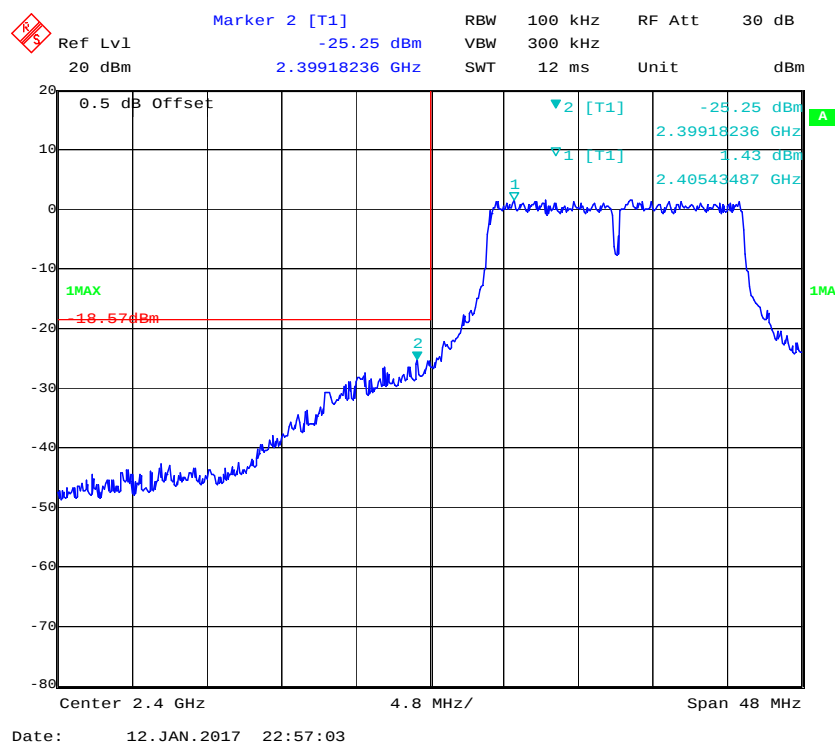
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
N/A	RF Cable	N/A	N/A	Each Time	/

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

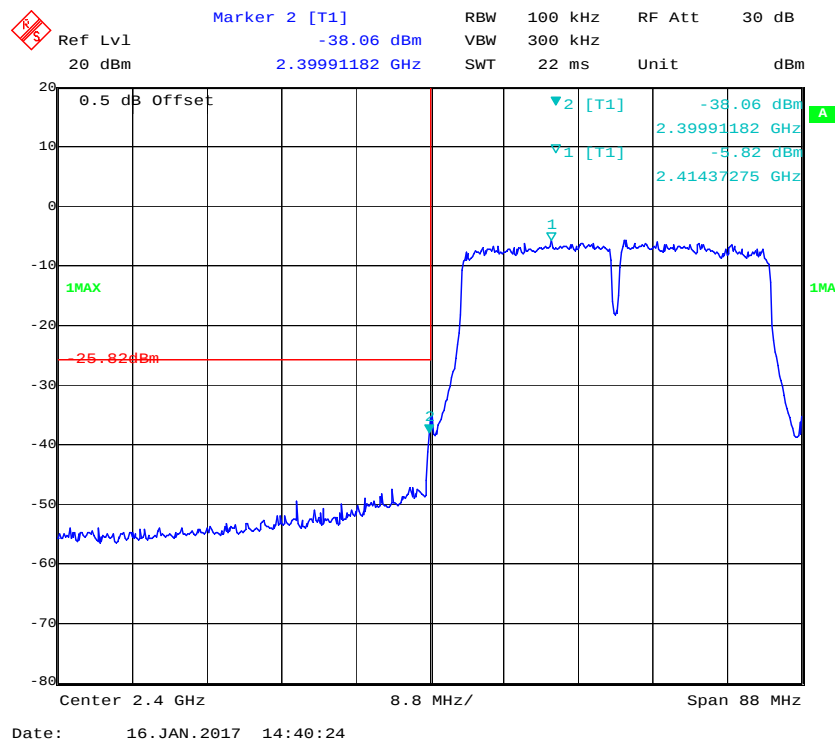
802.11b: Band Edge, Right Side



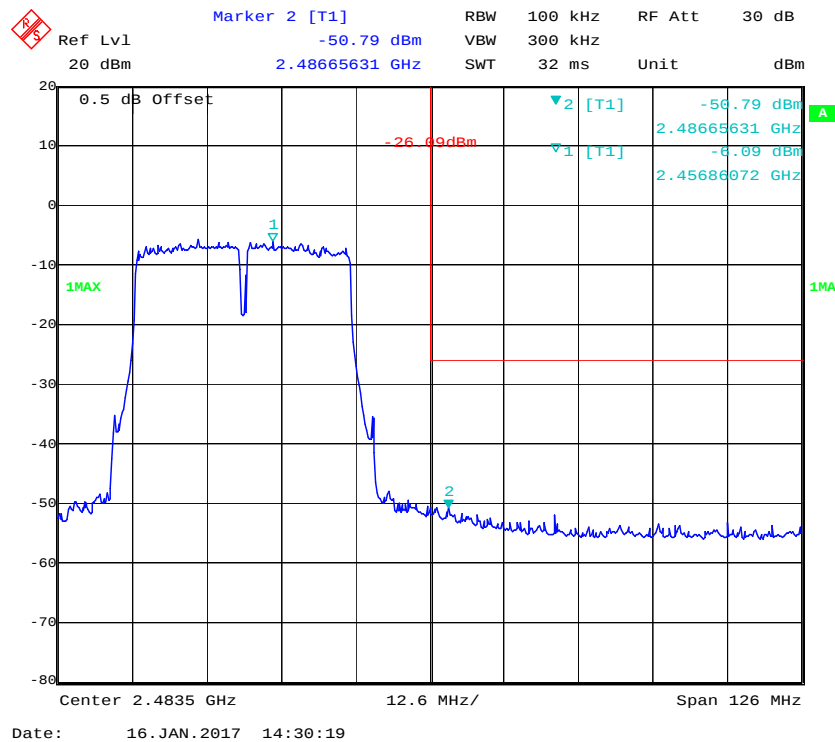
802.11g: Band Edge, Left Side



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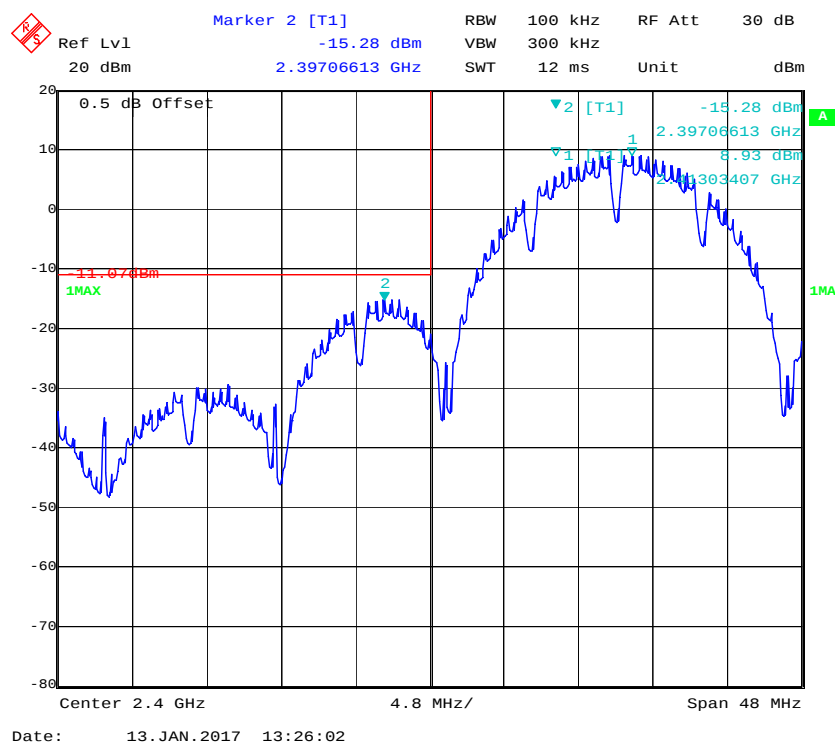


802.11n ht40 Band Edge, Right Side

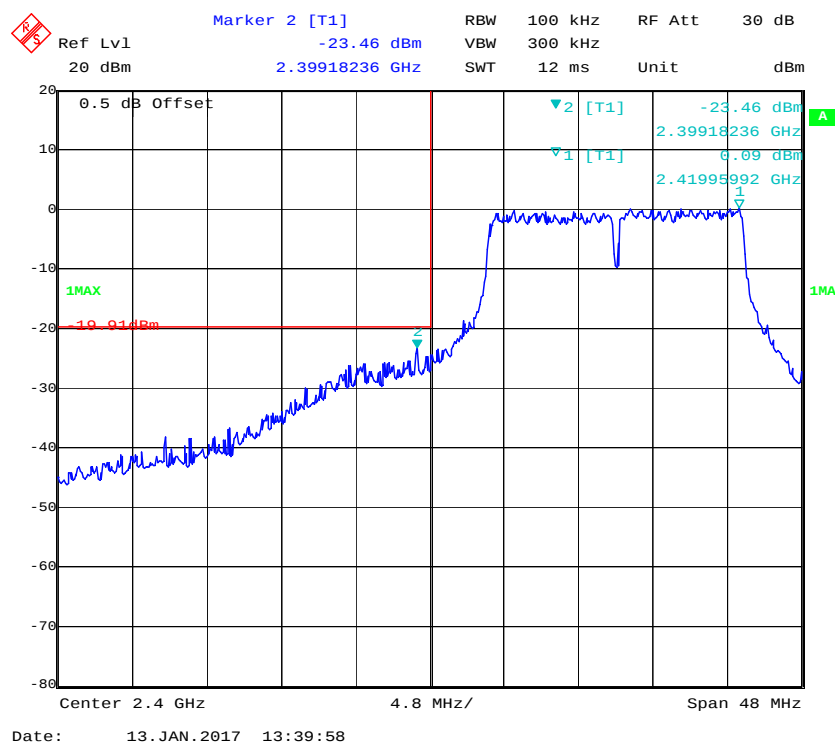


Chain 1:

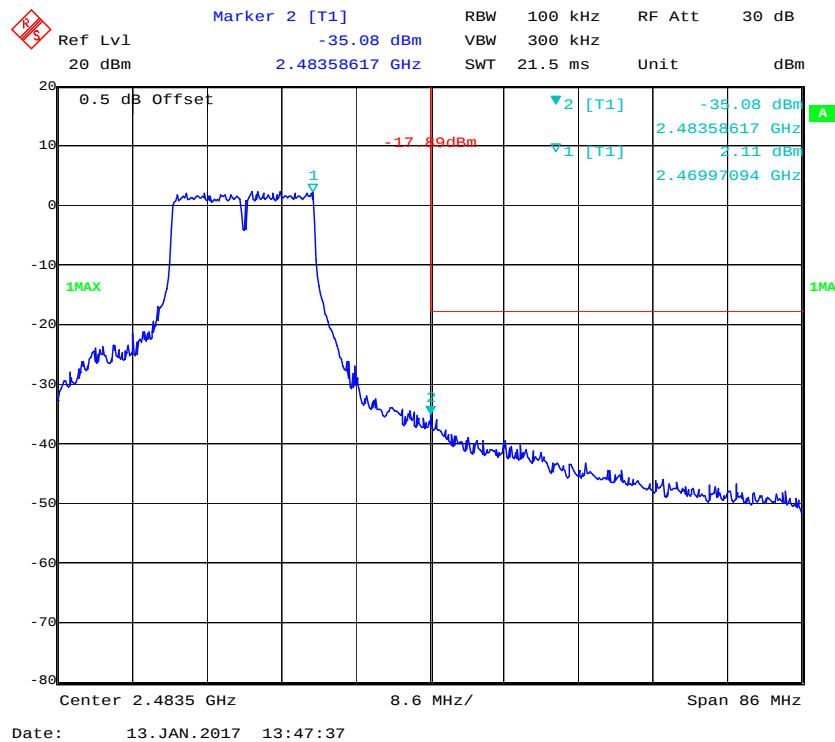
802.11b: Band Edge, Left Side



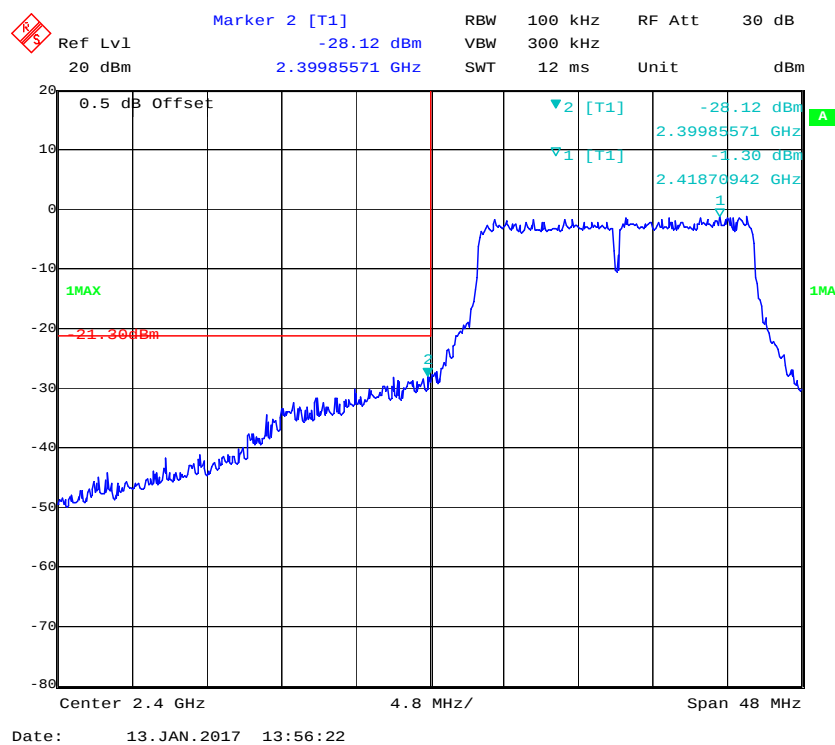
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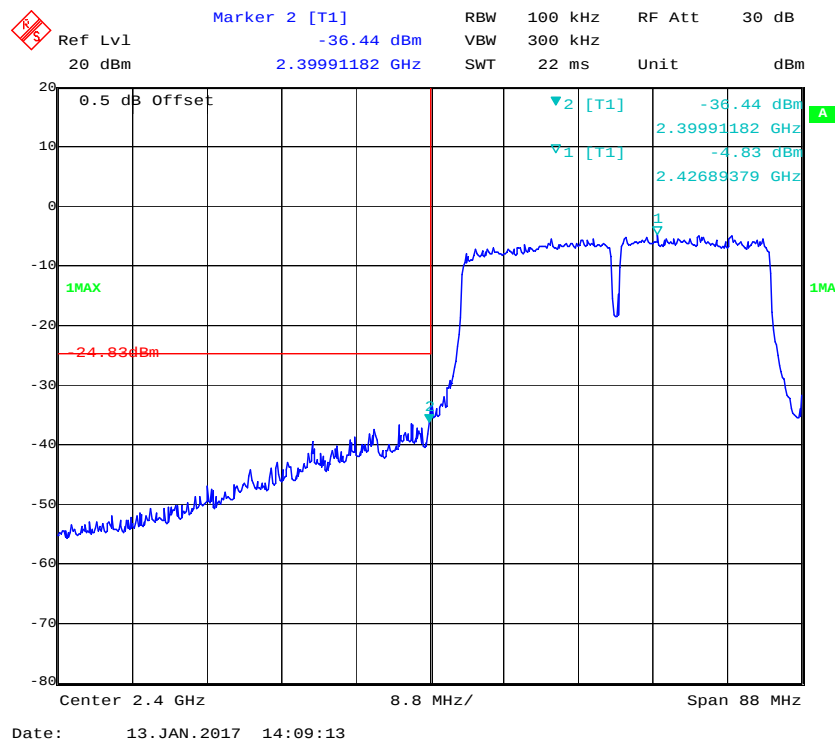
802.11g: Band Edge, Right Side



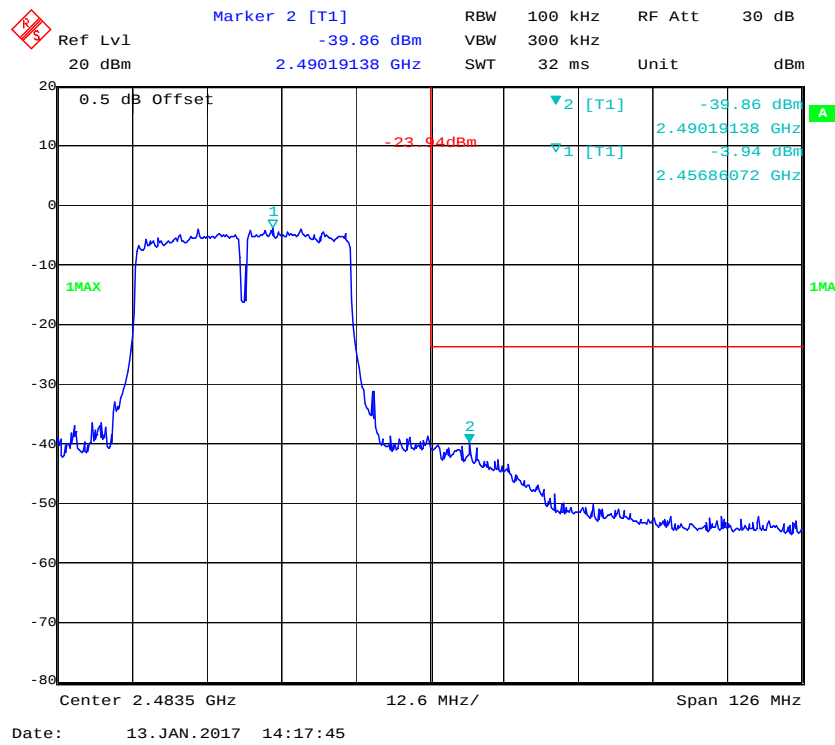
802.11n ht20 Band Edge, Left Side



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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

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) 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	831929/005	2016-09-21	2017-09-20
N/A	RF Cable	N/A	N/A	Each Time	/

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	22.1~25.6 °C
Relative Humidity:	38~39 %
ATM Pressure:	100.9~101.2 kPa

* The testing was performed by Lorin Bian on 2017-01-12 to 2017-01-16.

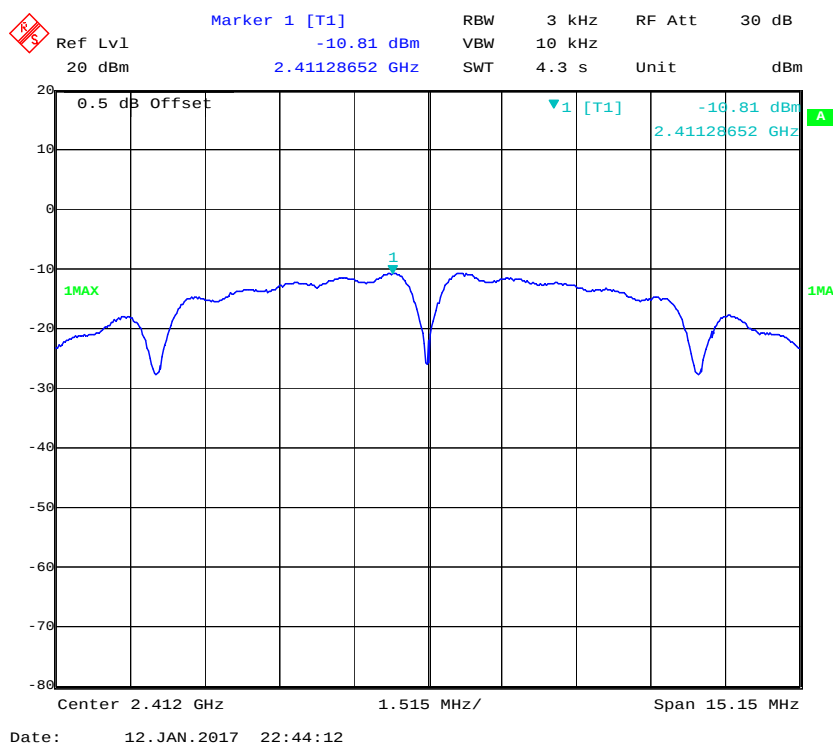
Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table and plots

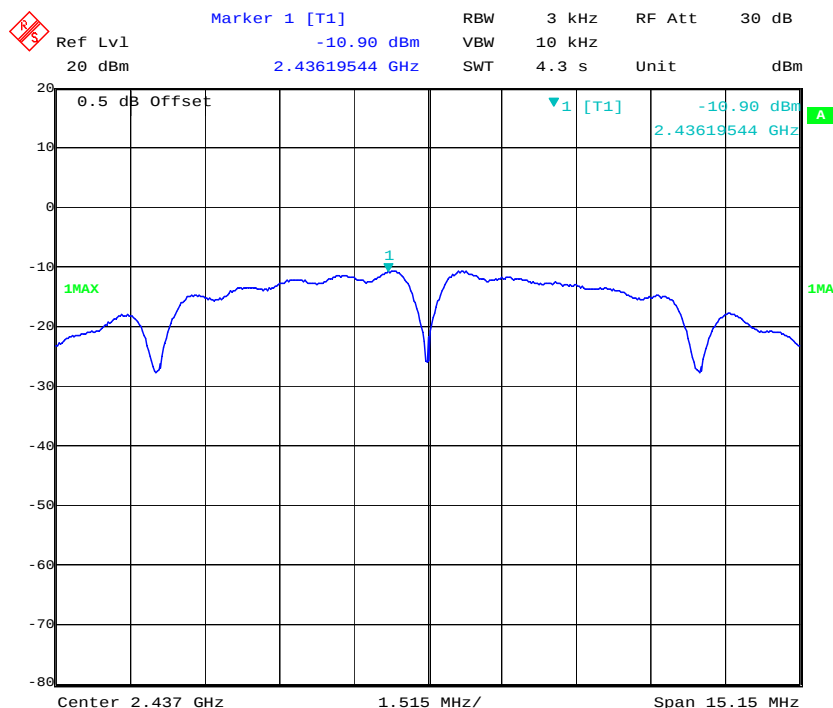
Test mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)		Total (dBm/3kHz)	Limit (dBm/3kHz)
			Chain 0	Chain 1		
802.11b	Low	2412	-10.81	-10.63	/	≤8
	Middle	2437	-10.9	-11.06	/	≤8
	High	2462	-11.22	-10.37	/	≤8
802.11g	Low	2412	-13.2	-14.51	/	≤8
	Middle	2437	-13.6	-12.98	/	≤8
	High	2462	-13.74	-12.4	/	≤8
802.11n20	Low	2412	-12.82	-15.55	-10.96	≤8
	Middle	2437	-13.74	-14.61	-11.14	≤8
	High	2462	-13.77	-13.91	-10.83	≤8
802.11n40	Low	2422	-17.31	-16.89	-14.08	≤8
	Middle	2437	-17.09	-15.67	-13.31	≤8
	High	2452	-18.45	-15.7	-13.85	≤8

Chain 0:

Power Spectral Density, 802.11b Low Channel

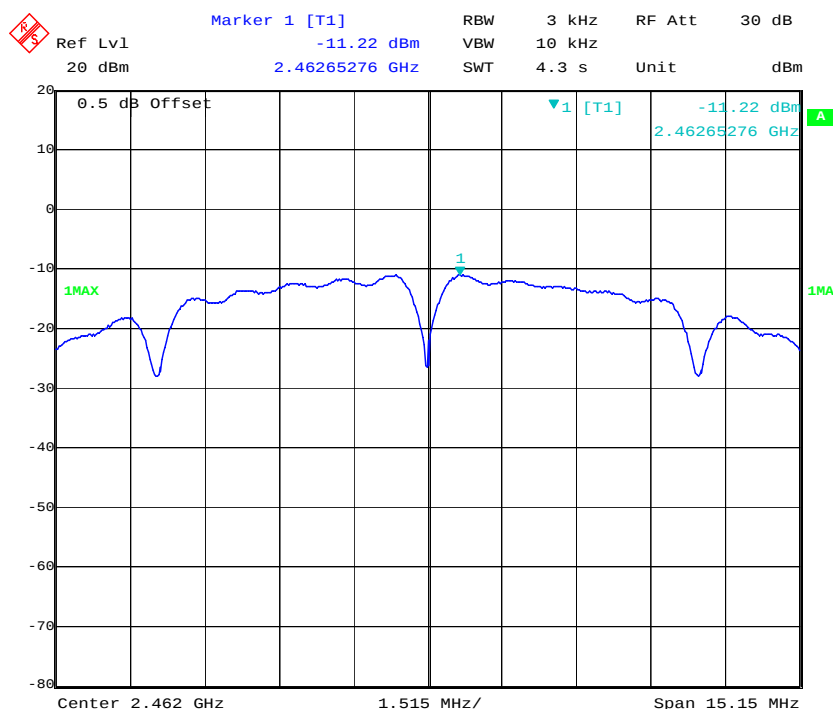


Power Spectral Density, 802.11b Middle Channel



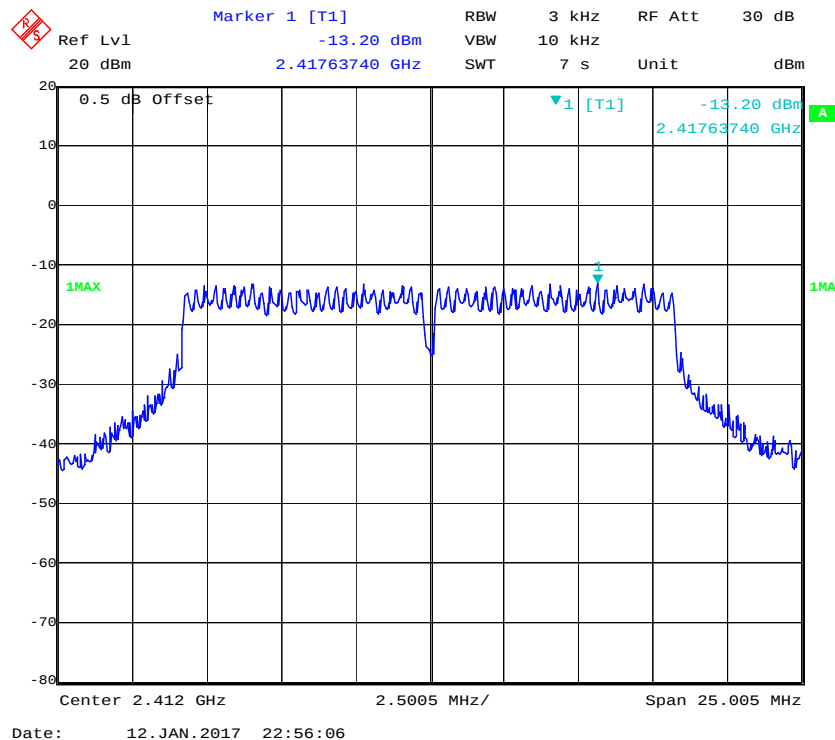
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Power Spectral Density, 802.11b High Channel

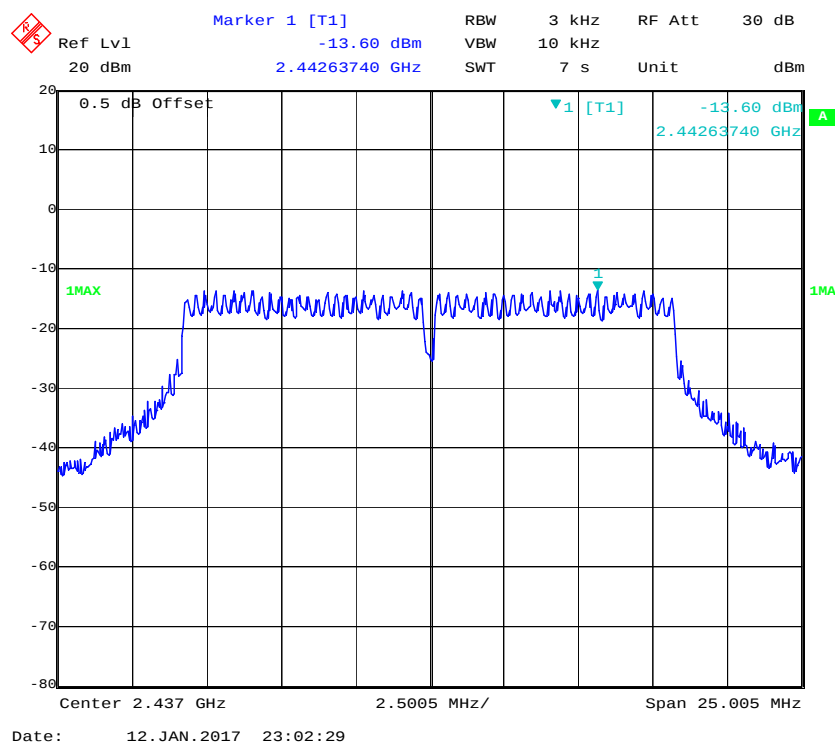


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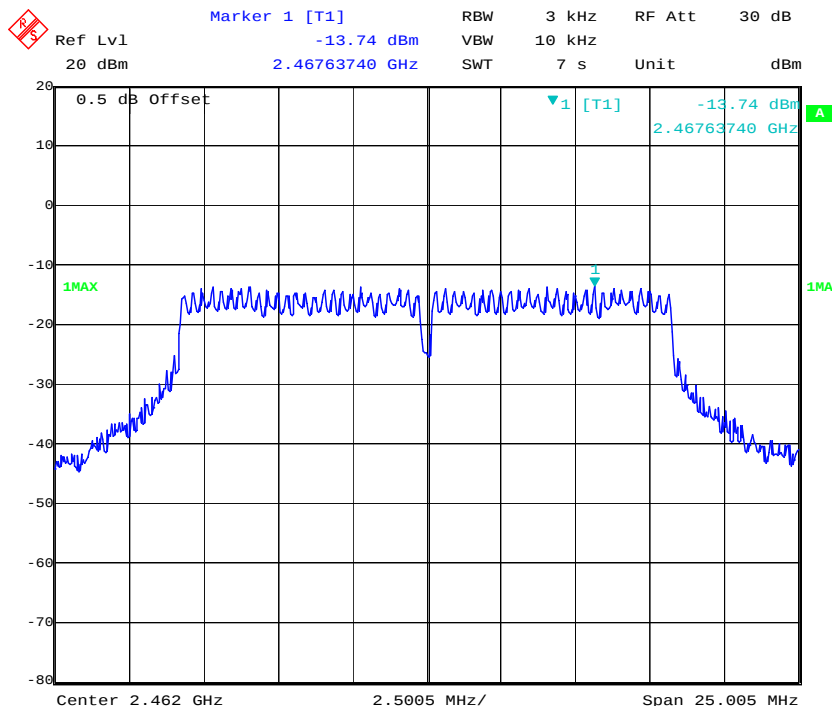
Power Spectral Density, 802.11g Low Channel



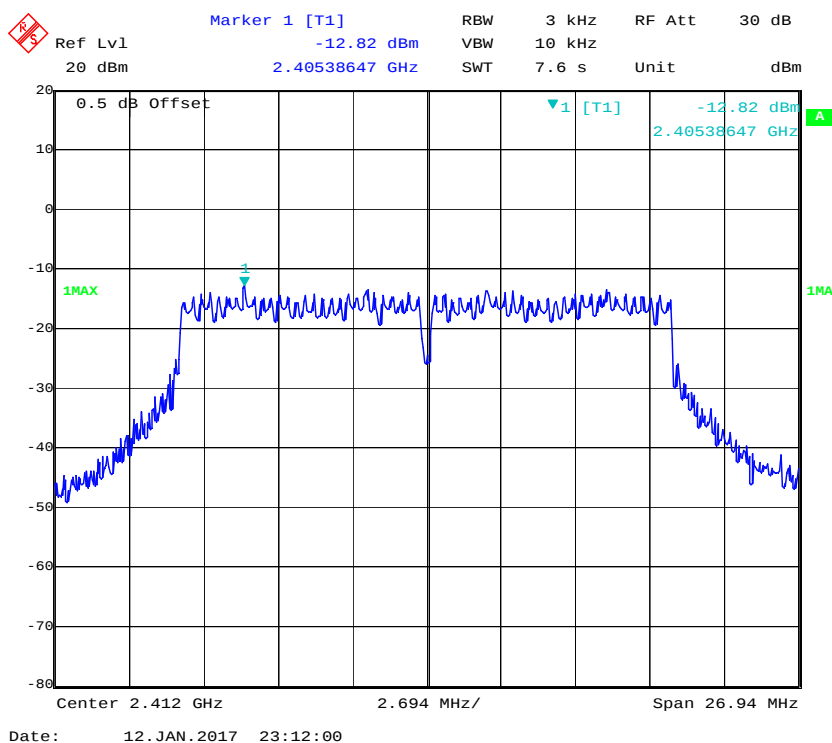
Power Spectral Density, 802.11g Middle Channel



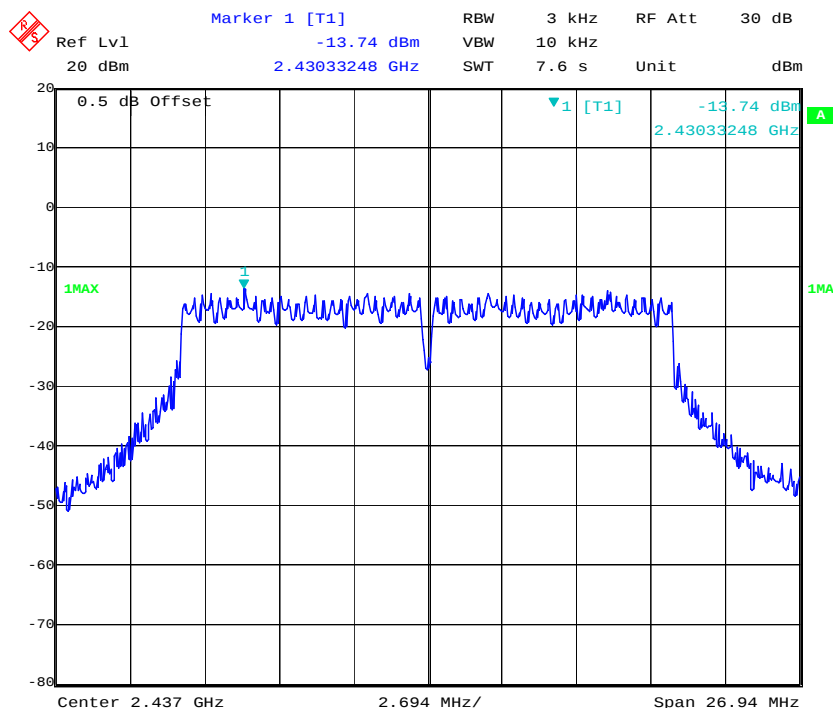
Power Spectral Density, 802.11g High Channel



Power Spectral Density, 802.11n ht20 Low Channel

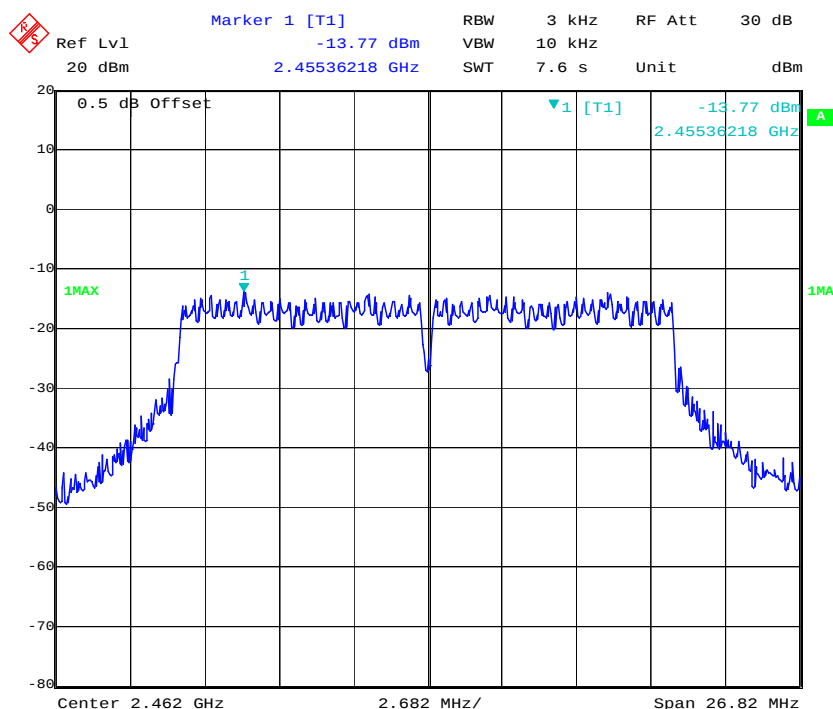


Power Spectral Density, 802.11n ht20 Middle Channel



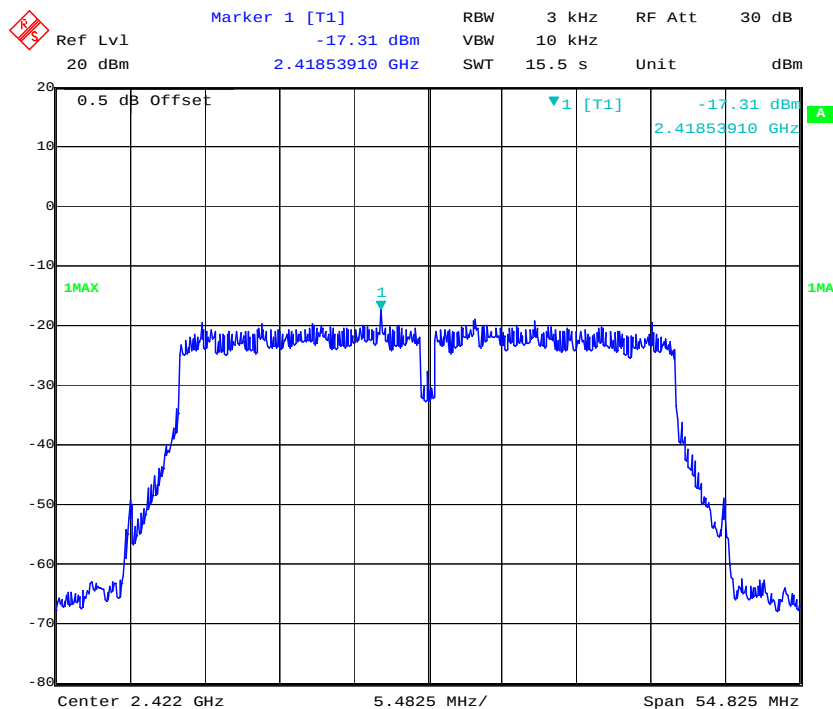
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Power Spectral Density, 802.11n ht20 High Channel

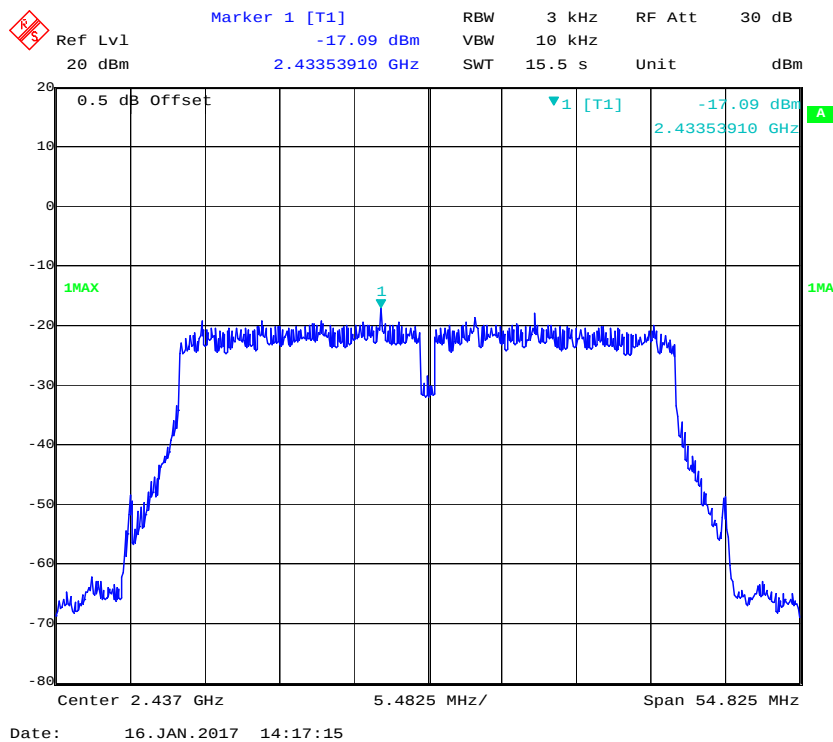


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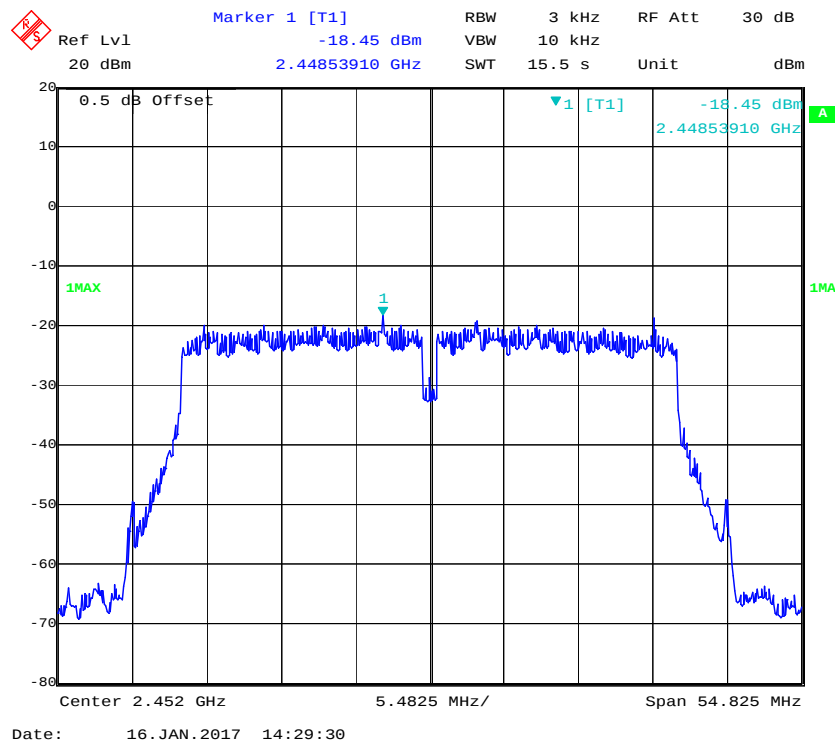
Power Spectral Density, 802.11n ht40 Low Channel



Power Spectral Density, 802.11n ht40 Middle Channel

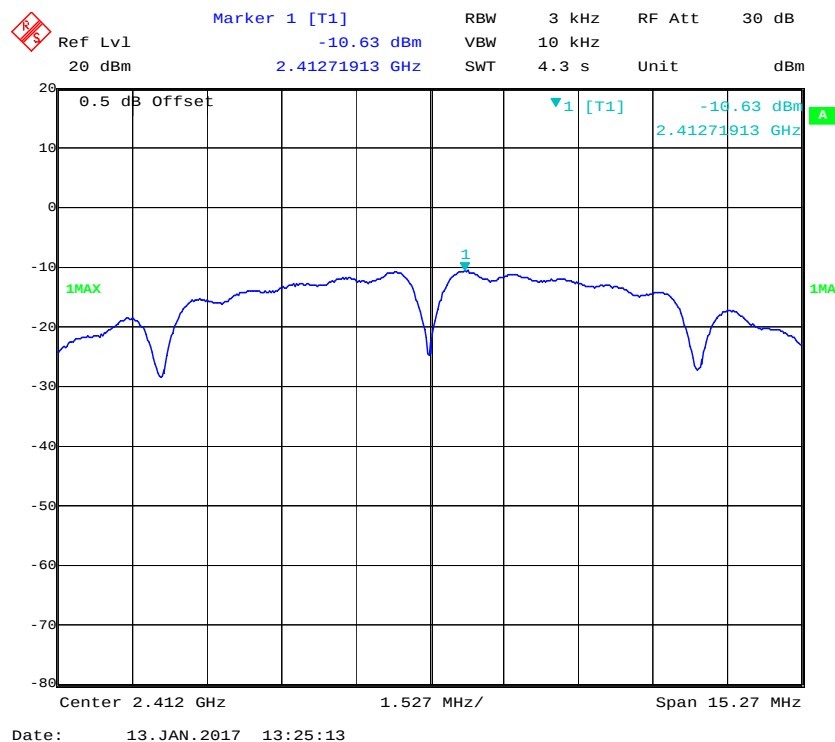


Power Spectral Density, 802.11n ht40 High Channel

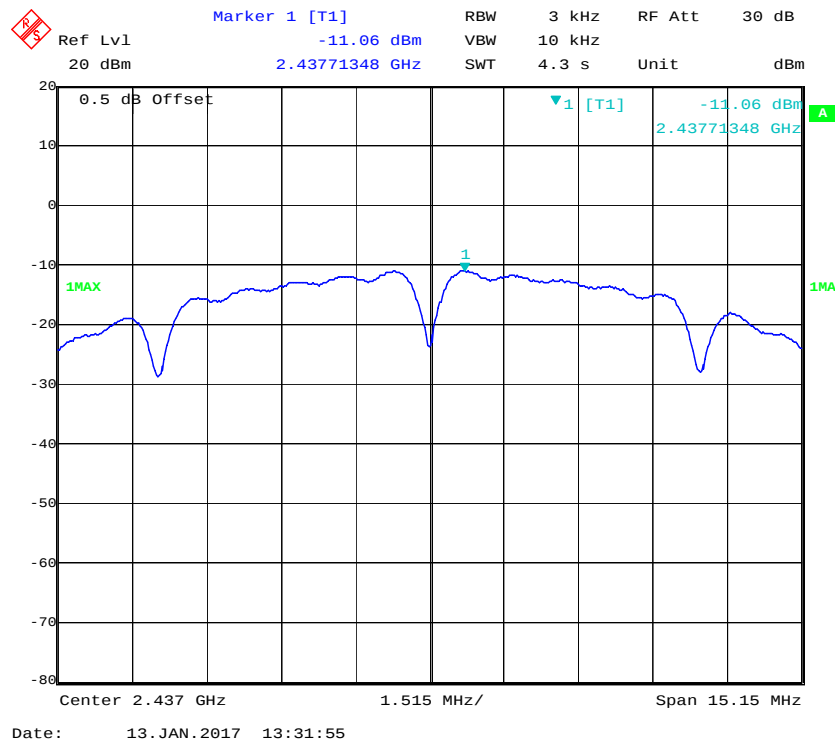


Chain 1:

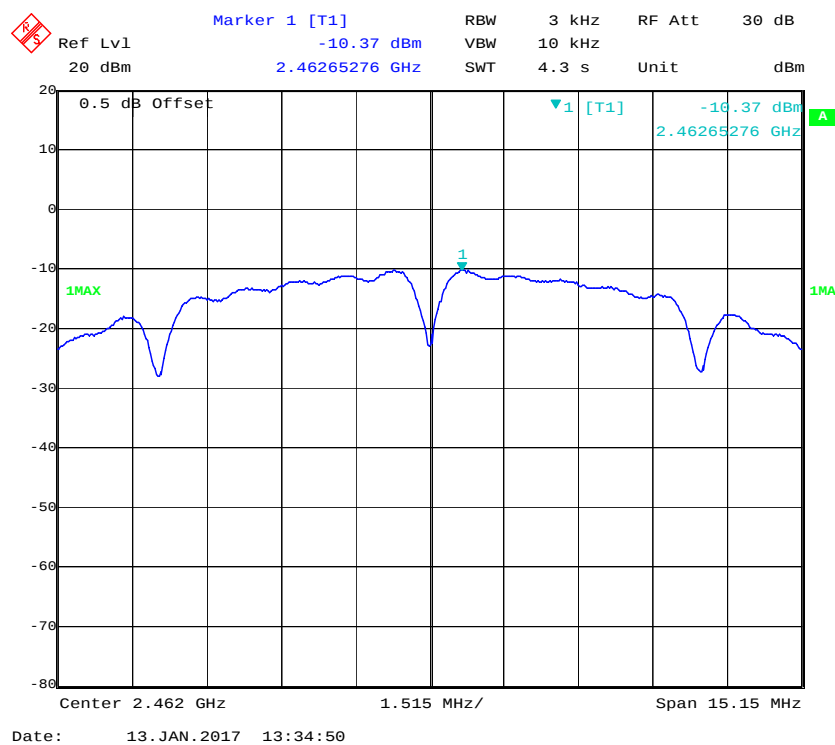
Power Spectral Density, 802.11b Low Channel



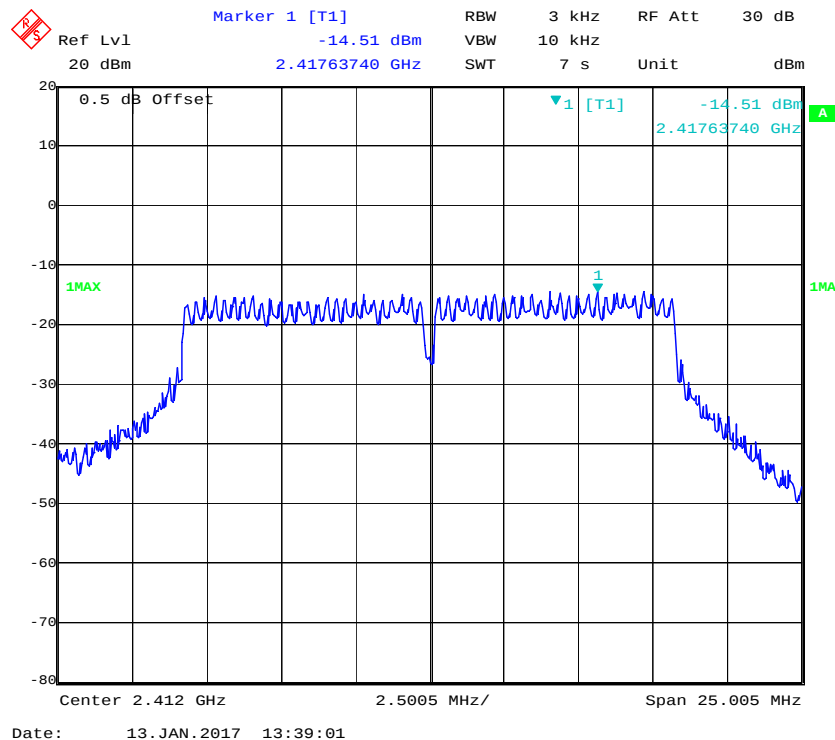
Power Spectral Density, 802.11b Middle Channel



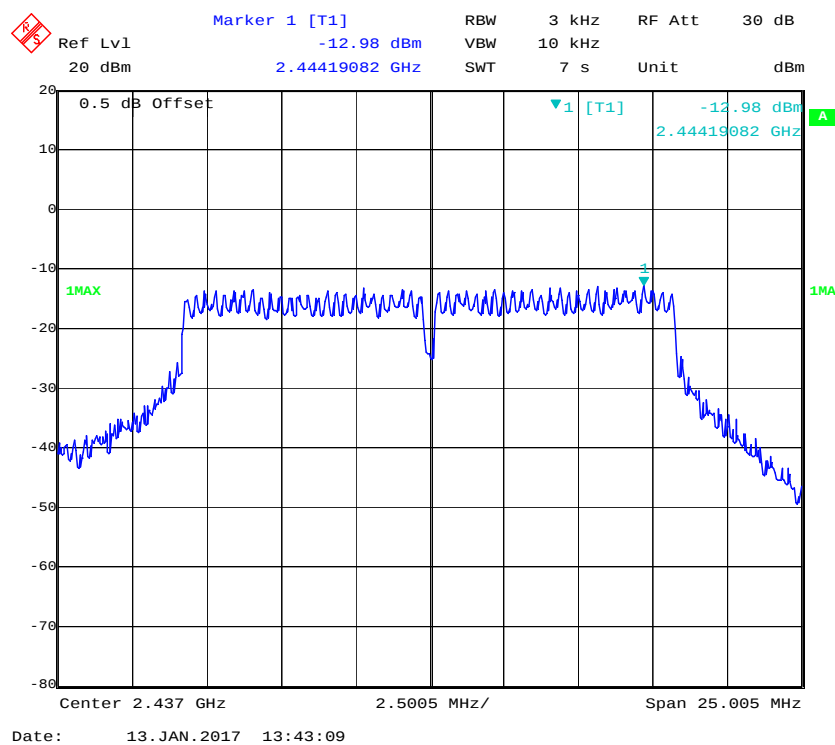
Power Spectral Density, 802.11b High Channel



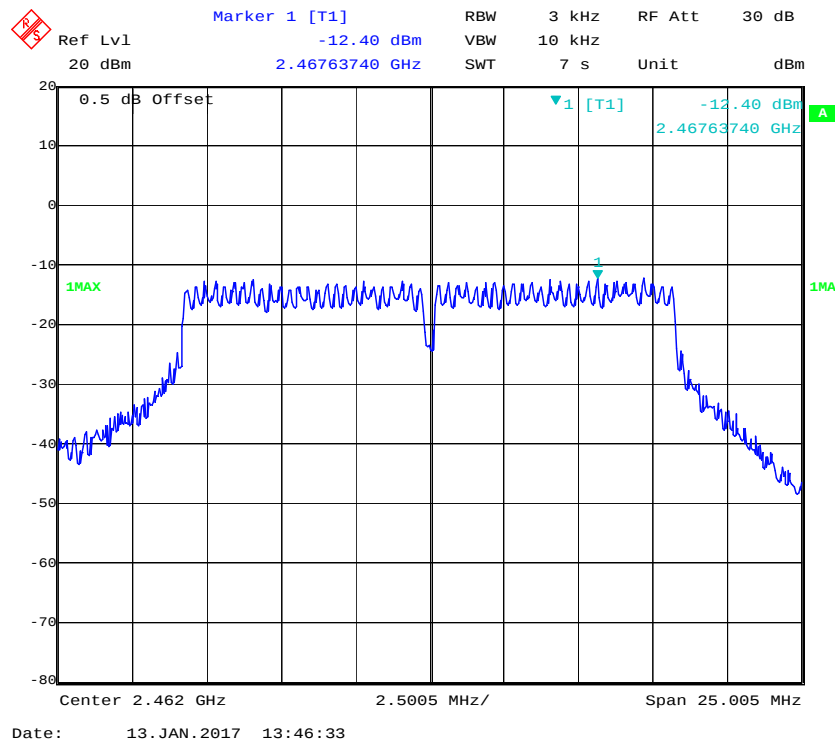
Power Spectral Density, 802.11g Low Channel



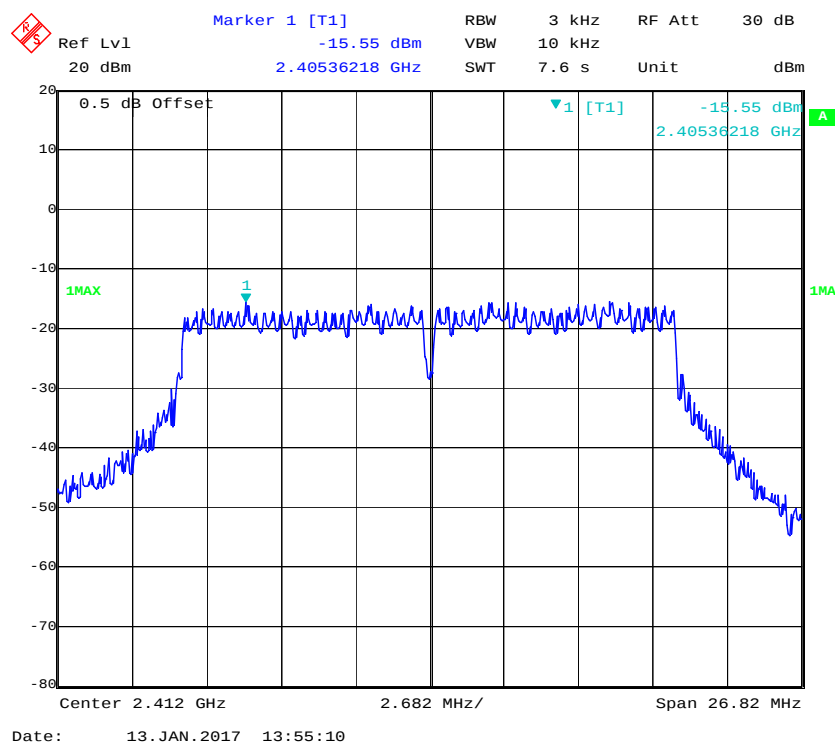
Power Spectral Density, 802.11g Middle Channel



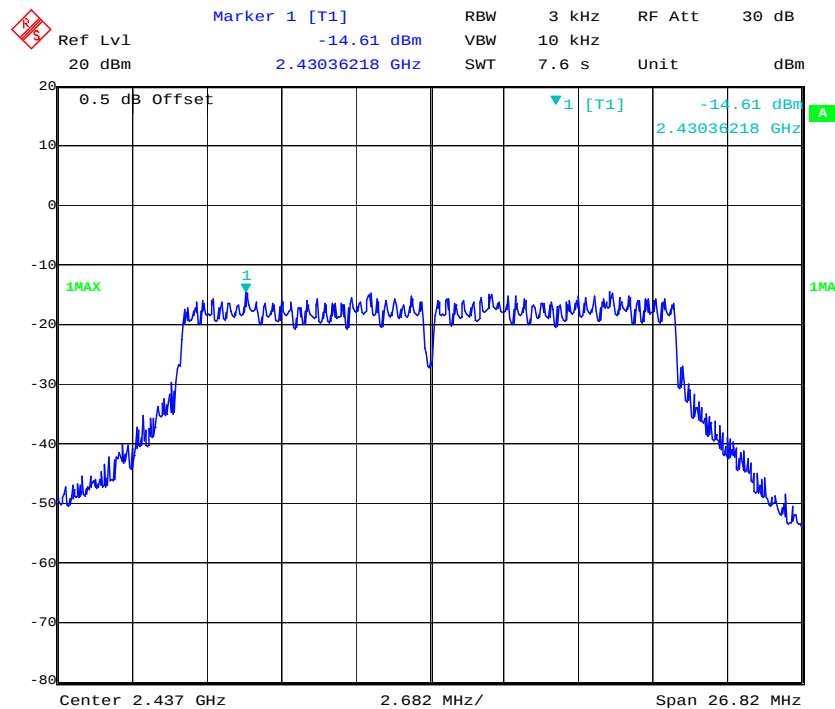
Power Spectral Density, 802.11g High Channel



Power Spectral Density, 802.11n ht20 Low Channel

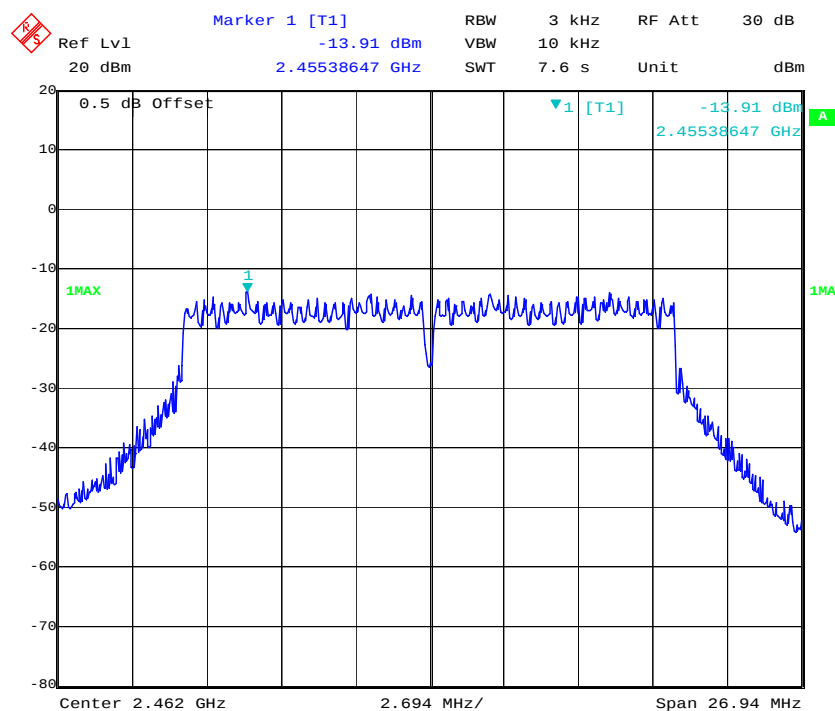


Power Spectral Density, 802.11n ht20 Middle Channel



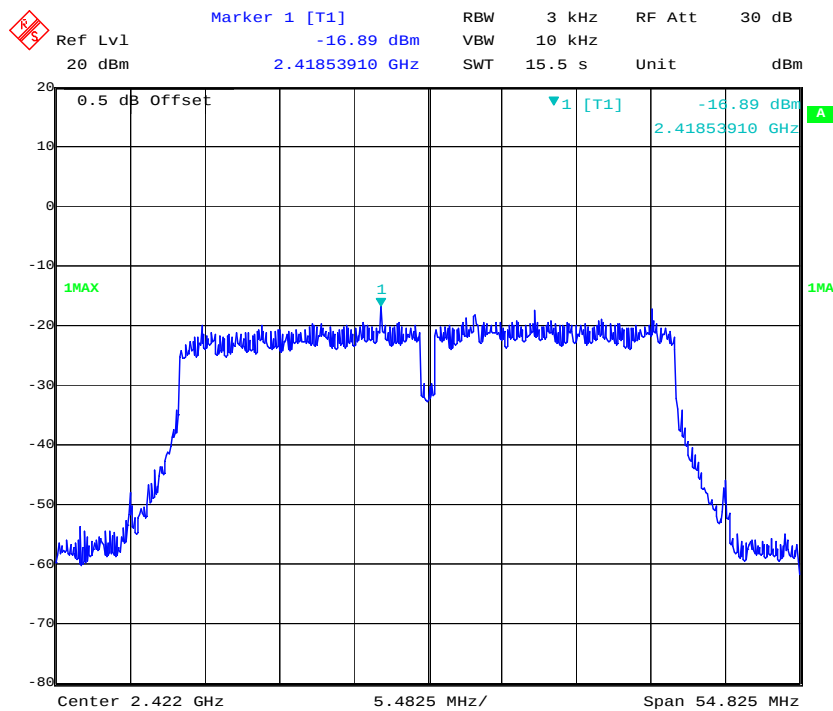
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Power Spectral Density, 802.11n ht20 High Channel



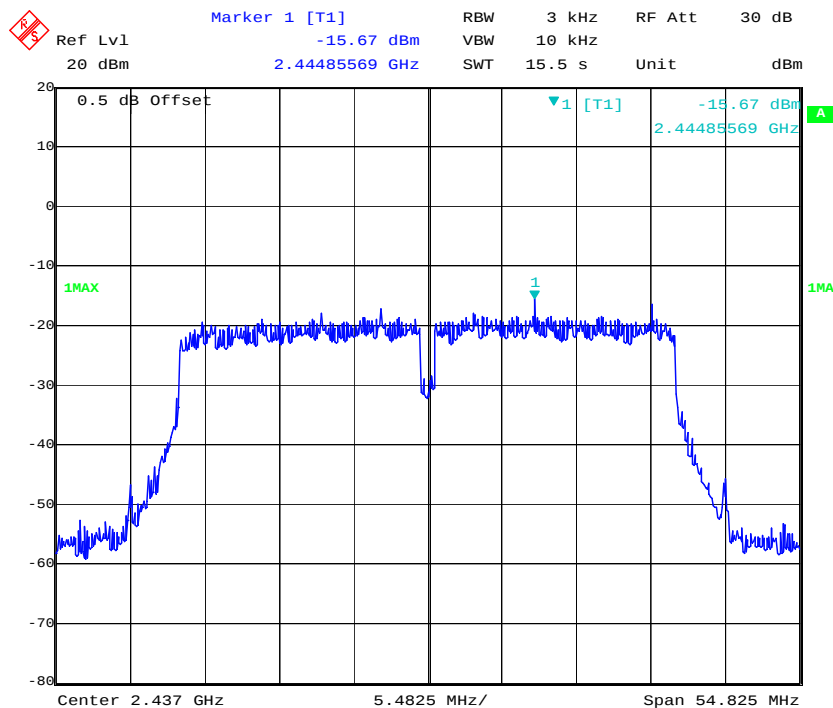
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Power Spectral Density, 802.11n ht40 Low Channel



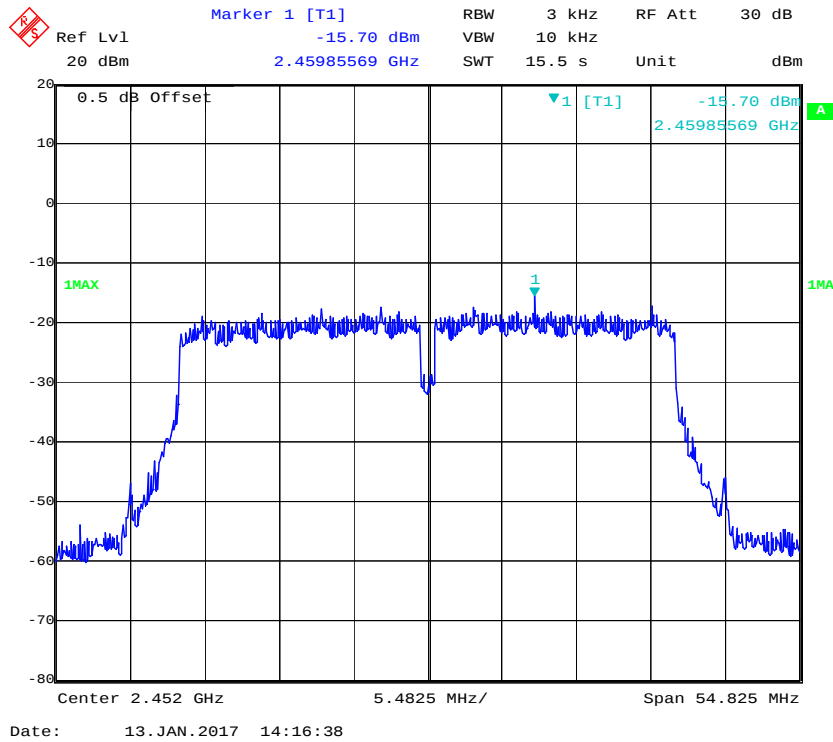
Date: 13.JAN.2017 14:08:00

Power Spectral Density, 802.11n ht40 Middle Channel



Date: 13.JAN.2017 14:12:19

Power Spectral Density, 802.11n ht40 High Channel



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