

FCC PART 15.247

TEST REPORT

For

Jovision Technology Co.,Ltd.

Floor11, Building D, In-hi tech Square, No.2008 Xinluo Street, Jinan, Shandong, China

FCC ID: 2AEW9JVS-HC801E

Report Type: Original Report	Product Type: HD Network Camera
Report Number: RSZ170904009-00B	
Report Date: 2017-09-27	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Jovision Technology Co.,Ltd.'s Product, model number: JVS-HC810E (FCC ID: 2AEW9JVS-HC801E) in this report is a HD Network Camera, which was measured approximately: 66 mm (L) × 66 mm (W) × 172 mm (H), rated with input voltage: DC 12V from adapter.

Adapter Information:

Model: SOY-1200200US

Input: AC 100-240V, 50/60Hz, 0.6A Max

Output: DC 12V, 2.0A

Notes: This series products model: JVS-HC810E and JVS-DC810, JVS-HC810C, JVS-DC810C, JVS-DC810E, JVS-FC810C, JVS-FC810E, JVS-TC810C, JVS-TC810E, JVS-NC810C, JVS-NC810E, HC810E, HC810C, DC810, DC810C, DC810E, FC810C, FC810E, TC810C, TC810E, NC810C, NC810E, JVS-V8A-EN, JVS-V8A, JVS-HV810A are identical; they have the same or similar appearance, structure, PCB, Material and function to the testing products. Model JVS-HC810E was selected for fully testing, the detailed information can be referred to the attached declaration which was stated and guaranteed by the applicant.

**All measurement and test data in this report was gathered from production sample serial number: 1702037 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2017-09-04.*

Objective

This report is prepared on behalf of Jovision Technology Co.,Ltd. in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's 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)

FCC Part 15B JBP, submissions with FCC ID: 2AEW9JVS-HC801E

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

Measurement Uncertainty

Parameter	uncertainty
Occupied Channel Bandwidth	±5%
RF Output Power with Power meter	±0.5dB
RF conducted test with spectrum	±1.5dB
All emissions, radiated	±4.88dB
Temperature	±3°C
Humidity	±6%
Supply voltages	±0.4%

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

Bay Area Compliance Laboratories Corp. (Shenzhen) has been accredited to ISO/IEC 17025 by CNAS (Lab code: L2408). And accredited to ISO/IEC 17025 by NVLAP (Lab code: 200707-0), the FCC Designation No. CN5001 under the KDB 974614 D01.

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.

Bay Area Compliance Laboratories Corp. (Shenzhen) was registered with ISED Canada under ISED Canada Registration Number 3062B.

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	/	/

For 802.11b, 802.11g, 802.11n-HT20 mode, 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)
1	2422	6	2447
2	2427	7	2452
3	2432	/	/
4	2437	/	/
5	2442	/	/

EUT was tested with Channel 1, 4 and 7.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

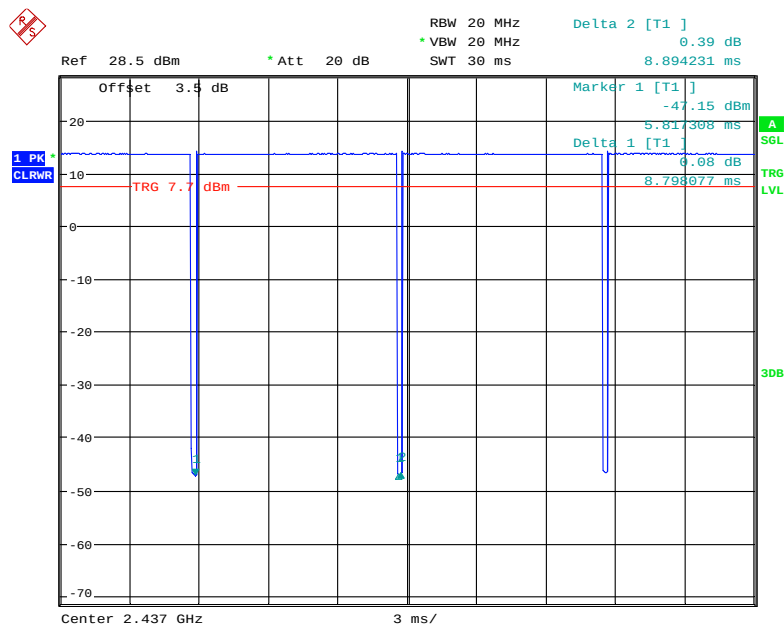
Wi-Fi test in the engineer mode.

Mode	Data rate	Power level		
		Low channel	Middle channel	High channel
802.11b	1 Mbps	05	05	05
802.11g	6 Mbps	02	02	02
802.11n-HT20	MCS0	02	02	02
802.11n-HT40	MCS0	07	07	07

Pre-scan with all the data rates, the above data rate is the worst case for Wi-Fi test.

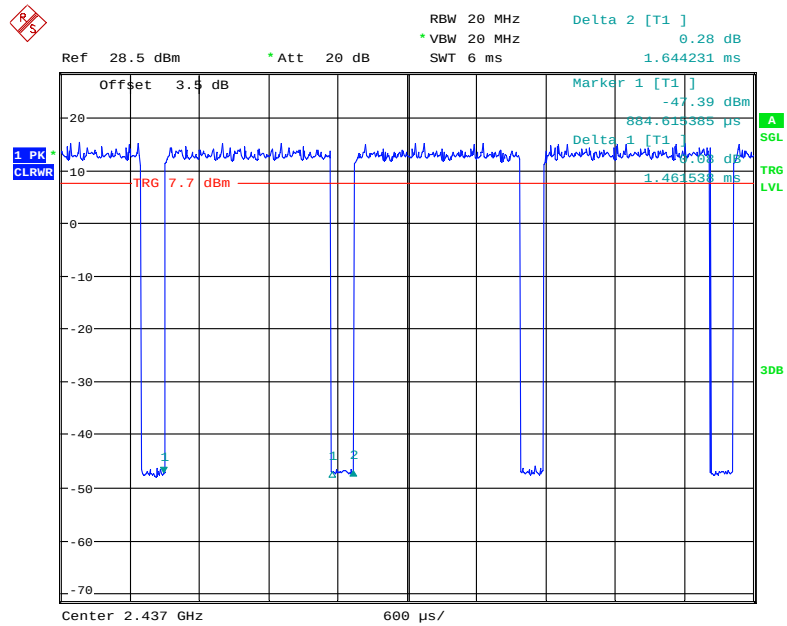
Duty cycle

802.11b mode



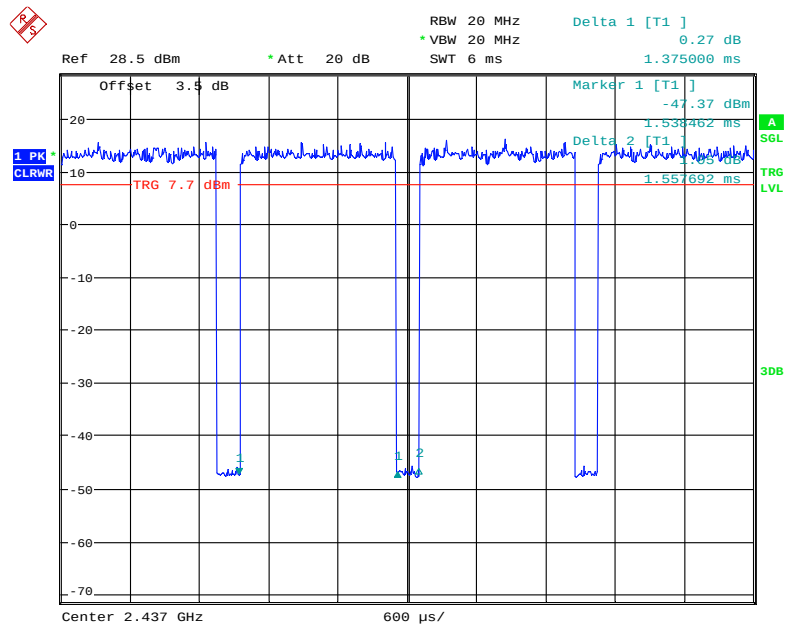
Date: 21.SEP.2017 21:29:24

802.11g mode



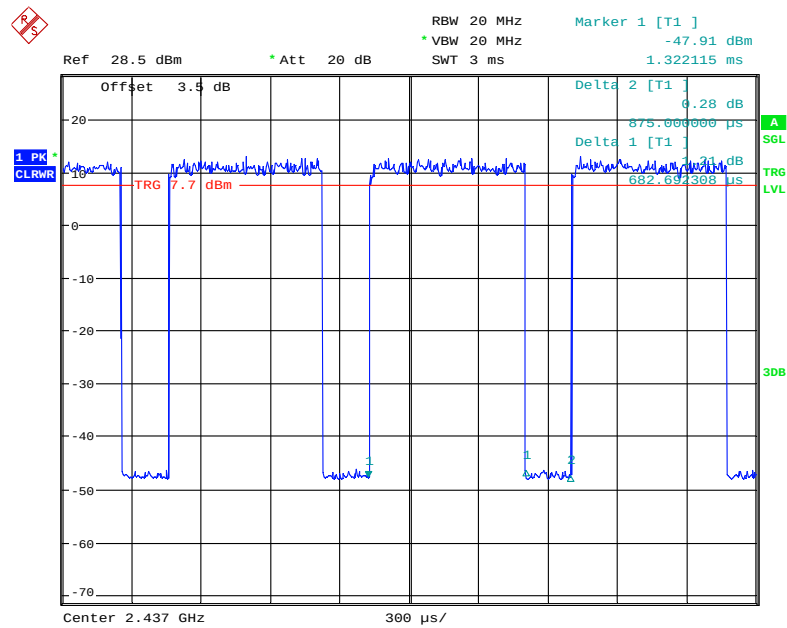
Date: 21.SEP.2017 21:30:48

802.11n-HT20 Mode



Date: 21.SEP.2017 21:31:50

802.11n-HT40 Mode



Date: 21.SEP.2017 21:33:05

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	10log(1/ Duty Cycle)
802.11b	98.92	-	-	10Hz	-
802.11g	88.93	1462	0.684	1kHz	0.510
802.11n-HT20	88.25	1375	0.727	1kHz	0.543
802.11n-HT40	78.06	683	1.464	1kHz	1.076

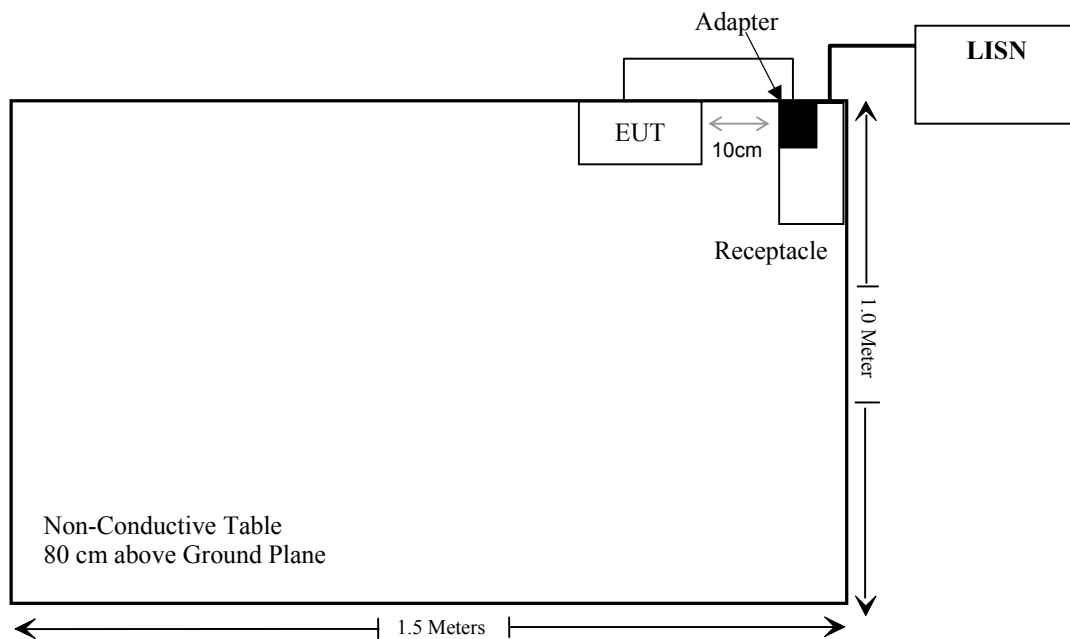
Note : The method for average value test please refer to §15.247(d) Spurious Emissions

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
N/A	Adapter	N/A	N/A

External I/O Cable

Cable Description	Length (m)	From Port	To
Shielding Detachable Adapter Cable	1.0	EUT	Adapter

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	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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2016-10-19	2017-10-19
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2016-12-07	2017-12-07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2017-05-21	2017-11-19
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
N/A	Conducted Emission Cable	N/A	UF A210B-1-0720-504504	2017-05-12	2017-11-12
Radiated Emission Test					
Sunol Sciences	Horn Antenna	DRH-118	A052604	2014-12-29	2017-12-28
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2017-04-24	2018-04-24
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2017-02-14	2018-02-14
HP	Amplifier	HP8447E	1937A01046	2017-05-21	2017-11-19
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2014-12-17	2017-12-16
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2016-12-07	2017-12-07
Ducommun technologies	RF Cable	UFA210A-1-4724-30050U	MFR64369223410-001	2017-05-21	2017-11-19
Ducommun technologies	RF Cable	104PEA	218124002	2017-05-21	2017-11-19
Ducommun technologies	RF Cable	RG-214	1	2017-05-21	2017-11-19
Ducommun technologies	RF Cable	RG-214	2	2017-05-22	2017-11-22
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-04	2014-12-29	2017-12-28
Ducommun Technologies	Pre-amplifier	ALN-22093530-01	991373-01	2017-08-03	2018-08-03
RF Conducted Test					
Agilent	P-Series Power Meter	N1912A	MY5000448	2016-12-05	2017-12-05
Agilent	Wideband Power Sensor	N1921A	MY54210016	2016-12-05	2017-12-05
WEINSCHL	3dB Attenuator	N/A	N/A	2017-05-23	2017-11-22
Rohde & Schwarz	SPECTRUM ANALYZER	FSU26	200120	2016-12-05	2017-12-05
Ducommun technologies	RF Cable	RG-214	3	2017-05-22	2017-11-22

* **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).

FCC §15.247 (i) & §1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 1.1307 (b)(1), 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = 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)

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	5.0	3.16	14	25.12	20	0.0158	1
2422-2452	5.0	3.16	13	19.95	20	0.0125	1

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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 internal antenna arrangement, which was permanently attached and the antenna gain is 5dBi, fulfill the requirement of this section. Please refer to the EUT photos.

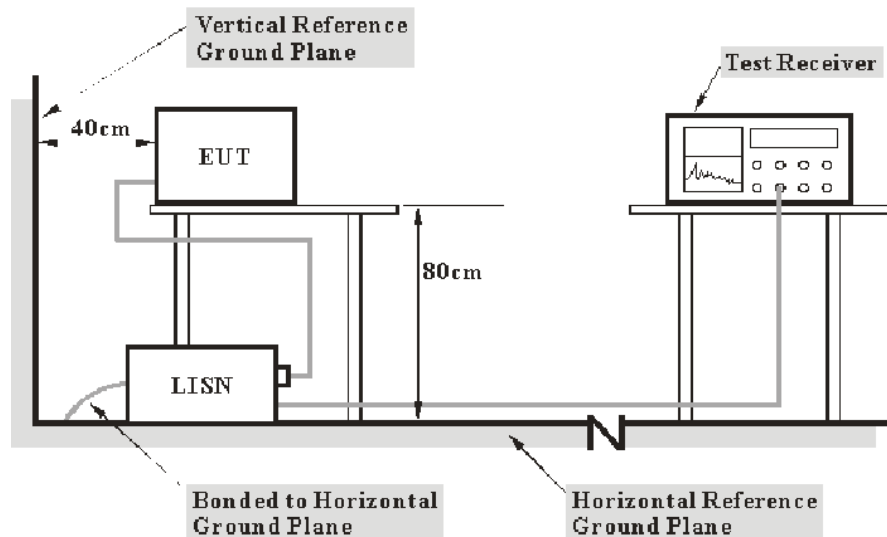
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

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.

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 LISN.

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

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

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB 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 Part 15.207,

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

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

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

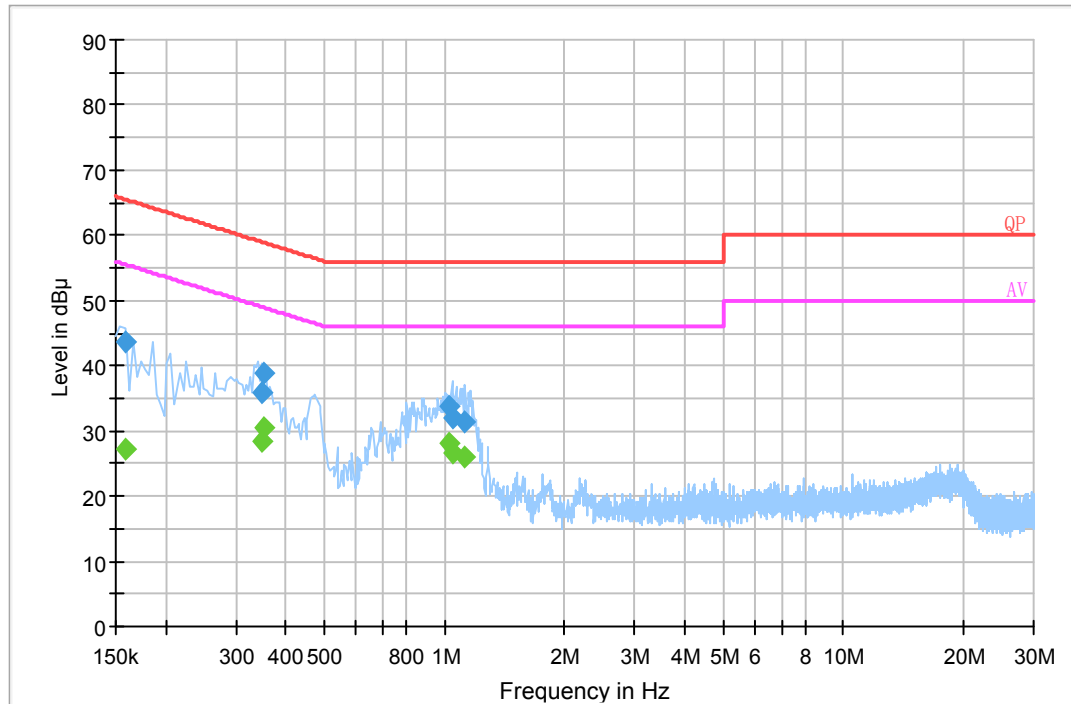
Test Data

Environmental Conditions

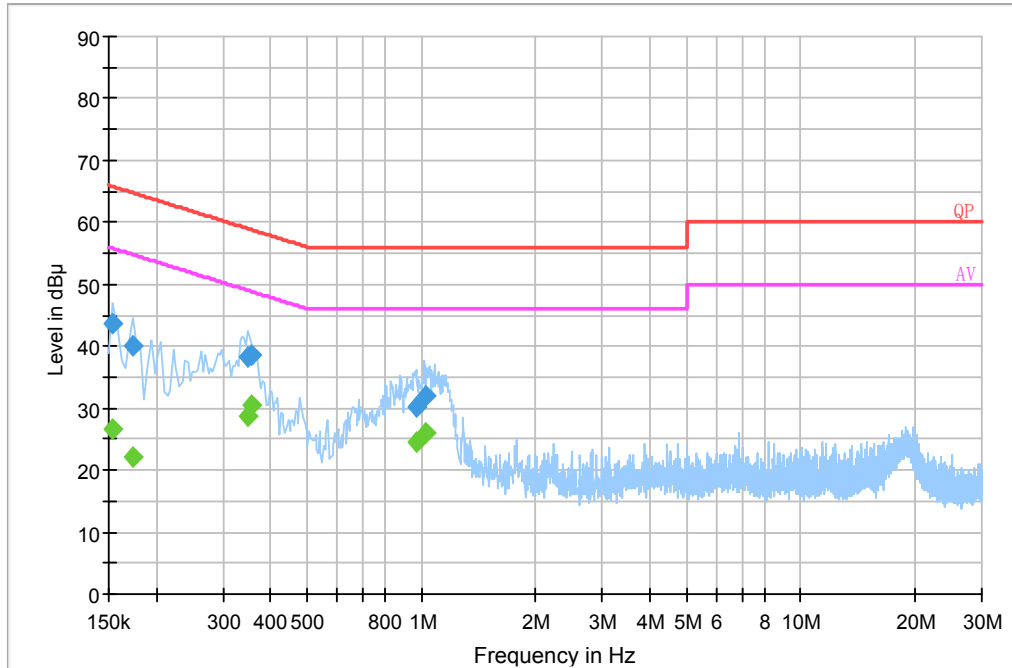
Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Jacob Kong on 2017-09-26.

EUT operation mode: Transmitting

AC 120V/60 Hz, Line

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.158000	43.7	20.2	65.6	21.9	QP
0.348690	35.8	20.2	59.0	23.2	QP
0.352750	39.0	20.2	58.9	19.9	QP
1.021090	33.8	20.1	56.0	22.2	QP
1.054310	32.1	20.1	56.0	23.9	QP
1.125110	31.5	20.1	56.0	24.5	QP
0.158000	27.1	20.2	55.6	28.5	Ave.
0.348690	28.3	20.2	49.0	20.7	Ave.
0.352750	30.5	20.2	48.9	18.4	Ave.
1.021090	28.2	20.1	46.0	17.8	Ave.
1.054310	26.5	20.1	46.0	19.5	Ave.
1.125110	26.0	20.1	46.0	20.0	Ave.

AC 120V/60 Hz, Neutral

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.154000	43.7	20.2	65.8	22.1	QP
0.173500	40.0	20.2	64.8	24.8	QP
0.348690	38.3	20.2	59.0	20.7	QP
0.355250	38.6	20.2	58.8	20.2	QP
0.975450	30.3	20.1	56.0	25.7	QP
1.030730	31.9	20.1	56.0	24.1	QP
0.154000	26.6	20.2	55.8	29.2	Ave.
0.173500	22.2	20.2	54.8	32.6	Ave.
0.348690	28.7	20.2	49.0	20.3	Ave.
0.355250	30.4	20.2	48.8	18.4	Ave.
0.975450	24.4	20.1	46.0	21.6	Ave.
1.030730	25.9	20.1	46.0	20.1	Ave.

Note:

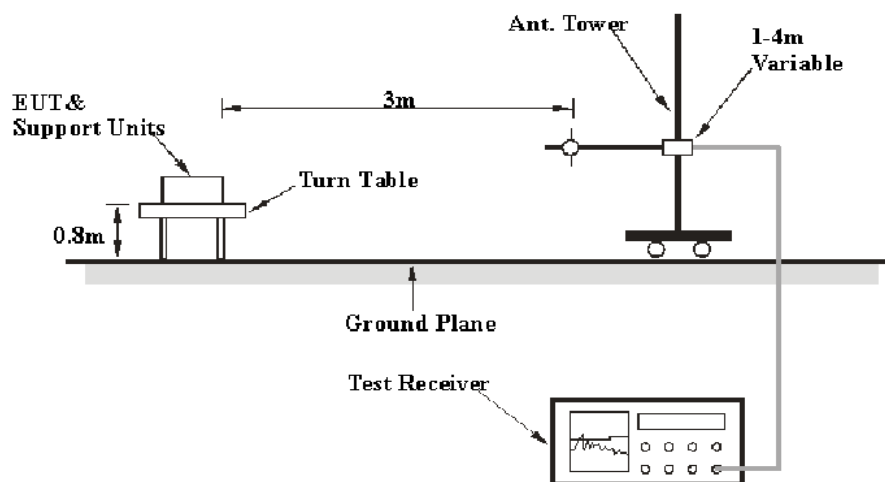
- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

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

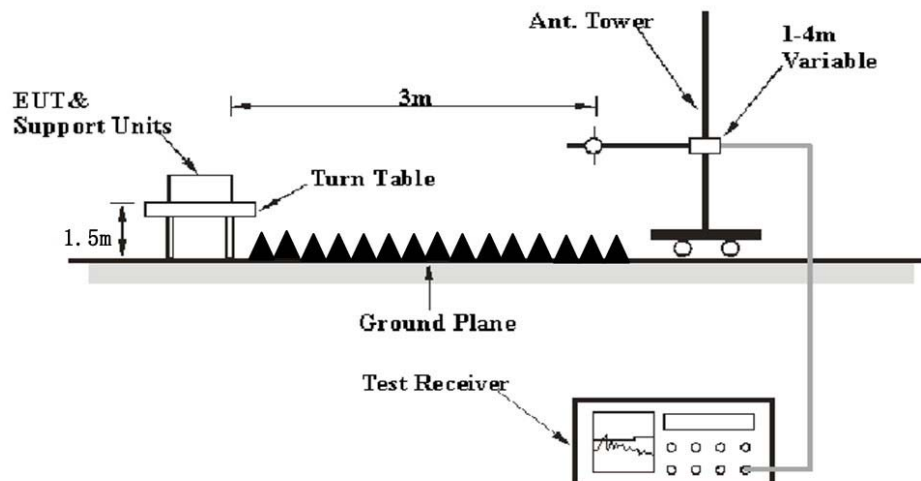
FCC §15.247 (d); §15.209; §15.205;

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 ^{Note 1}	/	PK
	1MHz	> 1/T ^{Note 2}	/	PK

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

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 detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

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

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

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

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

Test 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.

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:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jacob Kong on 2017-09-20.

EUT operation mode: Transmitting

30 MHz-25 GHz:**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)	PK/QP/Ave		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
145.62	38.95	QP	75	2.0	V	-4.6	34.35	43.5	9.15
2412.00	69.16	PK	300	1.2	H	33.92	103.08	/	/
2412.00	64.04	Ave.	300	1.2	H	33.92	97.96	/	/
2412.00	64.82	PK	39	2.1	V	33.92	98.74	/	/
2412.00	59.83	Ave.	39	2.1	V	33.92	93.75	/	/
2353.92	26.50	PK	194	1.8	H	33.92	60.42	74	13.58
2353.92	13.24	Ave.	194	1.8	H	33.92	47.16	54	6.84
2358.57	27.34	PK	83	2.5	H	33.92	61.26	74	12.74
2358.57	13.58	Ave.	83	2.5	H	33.92	47.50	54	6.50
2484.98	27.43	PK	289	2.0	H	34.08	61.51	74	12.49
2484.98	13.62	Ave.	289	2.0	H	34.08	47.70	54	6.30
4824.00	46.28	PK	118	2.3	H	5.84	52.12	74	21.88
4824.00	32.56	Ave.	118	2.3	H	5.84	38.40	54	15.60

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Middle Channel (2437MHz)									
145.62	40.18	QP	272	1.7	V	-4.6	35.58	43.5	7.92
2437.00	70.98	PK	87	1.8	H	33.92	104.90	/	/
2437.00	65.42	Ave.	87	1.8	H	33.92	99.34	/	/
2437.00	65.69	PK	105	1.4	V	33.92	99.61	/	/
2437.00	61.46	Ave.	105	1.4	V	33.92	95.38	/	/
2375.73	26.69	PK	23	2.0	H	33.92	60.61	74	13.39
2375.73	13.25	Ave.	23	2.0	H	33.92	47.17	54	6.83
2385.51	27.22	PK	76	1.6	H	33.92	61.14	74	12.86
2385.51	13.45	Ave.	76	1.6	H	33.92	47.37	54	6.63
2483.96	27.41	PK	207	2.2	H	34.08	61.49	74	12.51
2483.96	13.63	Ave.	207	2.2	H	34.08	47.71	54	6.29
4874.00	44.67	PK	56	1.3	H	6.21	50.88	74	23.12
4874.00	30.25	Ave.	56	1.3	H	6.21	36.46	54	17.54
High Channel (2462 MHz)									
145.62	39.82	QP	84	1.2	V	-4.6	35.22	43.5	8.28
2462.00	70.65	PK	48	1.6	H	34.08	104.73	/	/
2462.00	64.93	Ave.	48	1.6	H	34.08	99.01	/	/
2462.00	66.82	PK	348	1.9	V	34.08	100.90	/	/
2462.00	62.04	Ave.	348	1.9	V	34.08	96.12	/	/
2324.26	27.41	PK	73	1.9	H	33.83	61.24	74	12.76
2324.26	13.58	Ave.	73	1.9	H	33.83	47.41	54	6.59
2484.39	26.58	PK	181	1.0	H	34.08	60.66	74	13.34
2484.39	13.22	Ave.	181	1.0	H	34.08	47.30	54	6.70
2488.52	27.39	PK	278	1.4	H	34.08	61.47	74	12.53
2488.52	13.57	Ave.	278	1.4	H	34.08	47.65	54	6.35
4924.00	44.54	PK	273	2.3	H	6.21	50.75	74	23.25
4924.00	30.81	Ave.	273	2.3	H	6.21	37.02	54	16.98

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)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
145.62	39.79	QP	330	1.4	V	-4.6	35.19	43.5	8.31
2412.00	71.06	PK	357	1.4	H	33.92	104.98	/	/
2412.00	59.64	Ave.	357	1.4	H	33.92	93.56	/	/
2412.00	64.32	PK	357	1.3	V	33.92	98.24	/	/
2412.00	50.83	Ave.	357	1.3	V	33.92	84.75	/	/
2369.47	27.45	PK	211	1.6	H	33.92	61.37	74	12.63
2369.47	13.62	Ave.	211	1.6	H	33.92	47.54	54	6.46
2385.03	27.68	PK	347	1.1	H	33.92	61.60	74	12.40
2385.03	13.85	Ave.	347	1.1	H	33.92	47.77	54	6.23
2490.41	26.49	PK	161	1.1	H	34.08	60.57	74	13.43
2490.41	13.21	Ave.	161	1.1	H	34.08	47.29	54	6.71
4824.00	45.84	PK	128	2.0	H	5.84	51.68	74	22.32
4824.00	32.33	Ave.	128	2.0	H	5.84	38.17	54	15.83
Middle Channel (2437MHz)									
145.62	39.58	QP	11	2.5	V	-4.6	34.98	43.5	8.52
2437.00	70.11	PK	95	2.3	H	33.92	104.03	/	/
2437.00	57.61	Ave.	95	2.3	H	33.92	91.53	/	/
2437.00	65.91	PK	9	1.4	V	33.92	99.83	/	/
2437.00	54.73	Ave.	9	1.4	V	33.92	88.65	/	/
2334.04	27.74	PK	346	1.4	H	33.83	61.57	74	12.43
2334.04	13.91	Ave.	346	1.4	H	33.83	47.74	54	6.26
2357.29	27.34	PK	326	1.2	H	33.92	61.26	74	12.74
2357.29	13.68	Ave.	326	1.2	H	33.92	47.60	54	6.40
2488.65	26.87	PK	197	2.0	H	34.08	60.95	74	13.05
2488.65	13.22	Ave.	197	2.0	H	34.08	47.30	54	6.70
4874.00	44.53	PK	182	1.9	H	6.21	50.74	74	23.26
4874.00	30.74	Ave.	182	1.9	H	6.21	36.95	54	17.05

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel (2462 MHz)									
145.62	40.33	QP	130	1.7	V	-4.6	35.73	43.5	7.77
2462.00	72.29	PK	273	1.2	H	34.08	106.37	/	/
2462.00	58.84	Ave.	273	1.2	H	34.08	92.92	/	/
2462.00	67.14	PK	348	1.0	V	34.08	101.22	/	/
2462.00	54.36	Ave.	348	1.0	V	34.08	88.44	/	/
2385.35	27.51	PK	326	2.5	H	33.92	61.43	74	12.57
2385.35	13.67	Ave.	326	2.5	H	33.92	47.59	54	6.41
2484.82	27.13	PK	296	1.8	H	34.08	61.21	74	12.79
2484.82	13.34	Ave.	296	1.8	H	34.08	47.42	54	6.58
2487.73	26.89	PK	245	2.1	H	34.08	60.97	74	13.03
2487.73	13.21	Ave.	245	2.1	H	34.08	47.29	54	6.71
4924.00	43.53	PK	45	1.7	H	6.21	49.74	74	24.26
4924.00	29.88	Ave.	45	1.7	H	6.21	36.09	54	17.91

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 (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
145.62	40.08	QP	280	1.5	V	-4.6	35.48	43.5	8.02
2412.00	71.24	PK	116	1.2	H	33.92	105.16	/	/
2412.00	60.24	Ave.	116	1.2	H	33.92	94.16	/	/
2412.00	64.97	PK	319	1.7	V	33.92	98.89	/	/
2412.00	53.73	Ave.	319	1.7	V	33.92	87.65	/	/
2321.45	27.71	PK	286	1.9	H	33.83	61.54	74	12.46
2321.45	13.89	Ave.	286	1.9	H	33.83	47.72	54	6.28
2338.85	28.26	PK	250	1.2	H	33.83	62.09	74	11.91
2338.85	14.11	Ave.	250	1.2	H	33.83	47.94	54	6.06
2485.05	27.20	PK	85	1.3	H	34.08	61.28	74	12.72
2485.05	13.48	Ave.	85	1.3	H	34.08	47.56	54	6.44
4824.00	46.31	PK	115	2.5	H	5.84	52.15	74	21.85
4824.00	31.87	Ave.	115	2.5	H	5.84	37.71	54	16.29
Middle Channel (2437MHz)									
145.62	39.73	QP	212	1.7	V	-4.6	35.13	43.5	8.37
2437.00	70.49	PK	225	1.6	H	33.92	104.41	/	/
2437.00	57.63	Ave.	225	1.6	H	33.92	91.55	/	/
2437.00	65.49	PK	359	1.4	V	33.92	99.41	/	/
2437.00	54.78	Ave.	359	1.4	V	33.92	88.70	/	/
2376.05	27.70	PK	11	1.8	H	33.92	61.62	74	12.38
2376.05	13.91	Ave.	11	1.8	H	33.92	47.83	54	6.17
2388.23	27.12	PK	41	1.1	H	33.92	61.04	74	12.96
2388.23	13.37	Ave.	41	1.1	H	33.92	47.29	54	6.71
2485.18	27.20	PK	133	2.1	H	34.08	61.28	74	12.72
2485.18	13.45	Ave.	133	2.1	H	34.08	47.53	54	6.47
4874.00	44.19	PK	4	1.3	H	6.21	50.40	74	23.60
4874.00	30.24	Ave.	4	1.3	H	6.21	36.45	54	17.55

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 (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel (2462 MHz)									
145.62	39.85	QP	238	2.4	V	-4.6	35.25	43.5	8.25
2462.00	72.20	PK	175	1.7	H	34.08	106.28	/	/
2462.00	59.46	Ave.	175	1.7	H	34.08	93.54	/	/
2462.00	65.52	PK	258	1.3	V	34.08	99.60	/	/
2462.00	52.78	Ave.	258	1.3	V	34.08	86.86	/	/
2362.26	27.34	PK	286	1.7	H	33.92	61.26	74	12.74
2362.26	13.53	Ave.	286	1.7	H	33.92	47.45	54	6.55
2483.83	28.82	PK	72	2.3	H	34.08	62.90	74	11.10
2483.83	14.11	Ave.	72	2.3	H	34.08	48.19	54	5.81
2485.78	28.81	PK	278	2.4	H	34.08	62.89	74	11.11
2485.78	13.96	Ave.	278	2.4	H	34.08	48.04	54	5.96
4924.00	44.29	PK	307	1.0	H	6.21	50.50	74	23.50
4924.00	30.27	Ave.	307	1.0	H	6.21	36.48	54	17.52

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)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2422 MHz)									
145.62	39.76	QP	16	2.4	V	-4.6	35.16	43.5	8.34
2422.00	69.66	PK	123	1.6	H	33.92	103.58	/	/
2422.00	55.43	Ave.	123	1.6	H	33.92	89.35	/	/
2422.00	62.48	PK	169	2.3	V	33.92	96.40	/	/
2422.00	48.84	Ave.	169	2.3	V	33.92	82.76	/	/
2351.36	27.16	PK	187	1.3	H	33.92	61.08	74	12.92
2351.36	13.28	Ave.	187	1.3	H	33.92	47.20	54	6.80
2368.19	27.34	PK	92	1.6	H	33.92	61.26	74	12.74
2368.19	13.56	Ave.	92	1.6	H	33.92	47.48	54	6.52
2490.14	26.86	PK	337	1.3	H	34.08	60.94	74	13.06
2490.14	13.11	Ave.	337	1.3	H	34.08	47.19	54	6.81
4844.00	45.62	PK	68	2.2	H	5.84	51.46	74	22.54
4844.00	31.89	Ave.	68	2.2	H	5.84	37.73	54	16.27
Middle Channel (2437MHz)									
145.62	39.96	QP	337	2.5	V	-4.6	35.36	43.5	8.14
2437.00	71.48	PK	75	2.5	H	33.92	105.40	/	/
2437.00	56.97	Ave.	75	2.5	H	33.92	90.89	/	/
2437.00	63.09	PK	94	1.9	V	33.92	97.01	/	/
2437.00	50.09	Ave.	94	1.9	V	33.92	84.01	/	/
2334.84	27.09	PK	259	1.1	H	33.83	60.92	74	13.08
2334.84	13.35	Ave.	259	1.1	H	33.83	47.18	54	6.82
2359.61	27.36	PK	11	2.5	H	33.92	61.28	74	12.72
2359.61	13.55	Ave.	11	2.5	H	33.92	47.47	54	6.53
2484.12	29.22	PK	354	1.3	H	34.08	63.30	74	10.70
2484.12	14.12	Ave.	354	1.3	H	34.08	48.20	54	5.80
4874.00	44.52	PK	20	1.4	H	6.21	50.73	74	23.27
4874.00	30.47	Ave.	20	1.4	H	6.21	36.68	54	17.32

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel (2452 MHz)									
145.62	40.15	QP	321	2.2	V	-4.6	35.55	43.5	7.95
2452.00	70.16	PK	188	2.0	H	34.08	104.24	/	/
2452.00	56.75	Ave.	188	2.0	H	34.08	90.83	/	/
2452.00	65.11	PK	63	1.4	V	34.08	99.19	/	/
2452.00	52.19	Ave.	63	1.4	V	34.08	86.27	/	/
2389.03	27.22	PK	206	1.1	H	33.92	61.14	74	12.86
2389.03	13.41	Ave.	206	1.1	H	33.92	47.33	54	6.67
2488.12	34.38	PK	248	2.5	H	34.08	68.46	74	5.54
2488.12	15.96	Ave.	248	2.5	H	34.08	50.04	54	3.96
2488.92	33.83	PK	169	1.5	H	34.08	67.91	74	6.09
2488.92	15.54	Ave.	169	1.5	H	34.08	49.62	54	4.38
4904.00	44.16	PK	166	1.1	H	6.21	50.37	74	23.63
4904.00	30.34	Ave.	166	1.1	H	6.21	36.55	54	17.45

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (Rx) + cable loss – amplifier factor

Margin = Limit - Corr. Amplitude

The other spurious emission which is 20dB to the limit was not recorded.

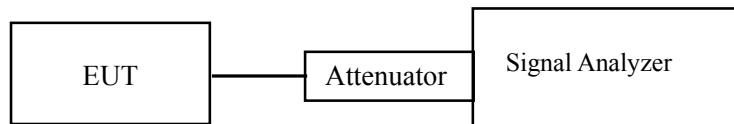
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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 Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jacob Kong on 2017-09-21.

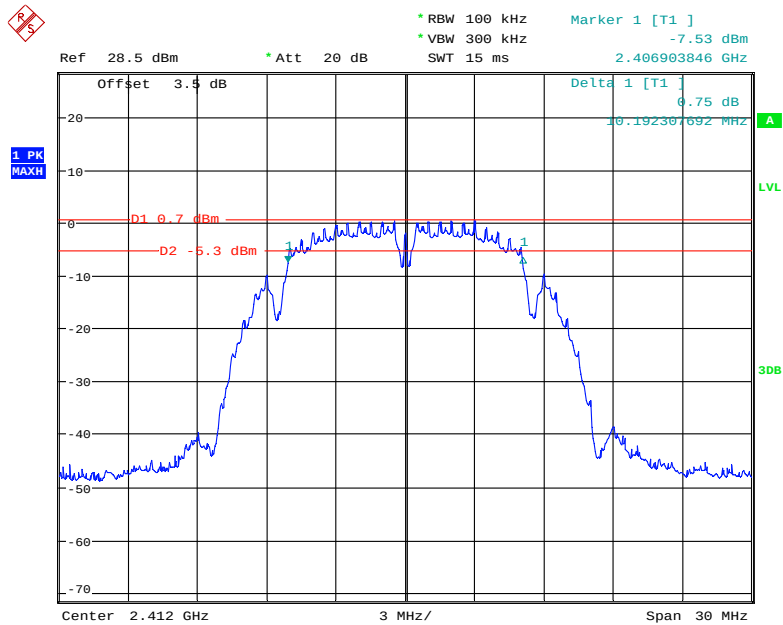
Test Result: Pass.

Please refer to the following table and plots.

EUT operation mode: Transmitting

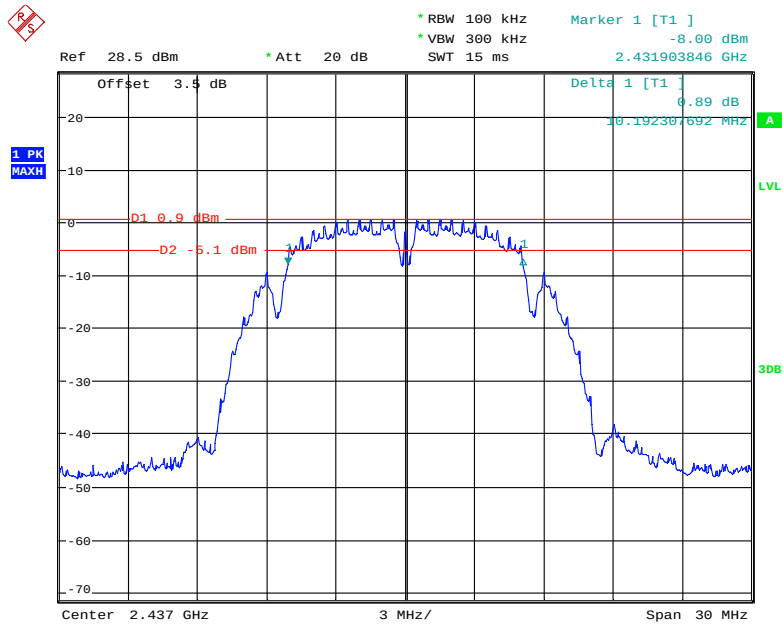
Channel	Frequency (MHz)	6 dB Emission Bandwidth	Limit (kHz)
		(MHz)	
802.11b mode			
Low	2412	10.19	≥500
Middle	2437	10.19	≥500
High	2462	10.19	≥500
802.11g			
Low	2412	16.44	≥500
Middle	2437	16.44	≥500
High	2462	16.44	≥500
802.11n-HT20 mode			
Low	2412	17.16	≥500
Middle	2437	17.16	≥500
High	2462	17.36	≥500
802.11n-HT40 mode			
Low	2422	35.29	≥500
Middle	2437	35.48	≥500
High	2452	35.29	≥500

6 dB Emission Bandwidth, 802.11b Low Channel



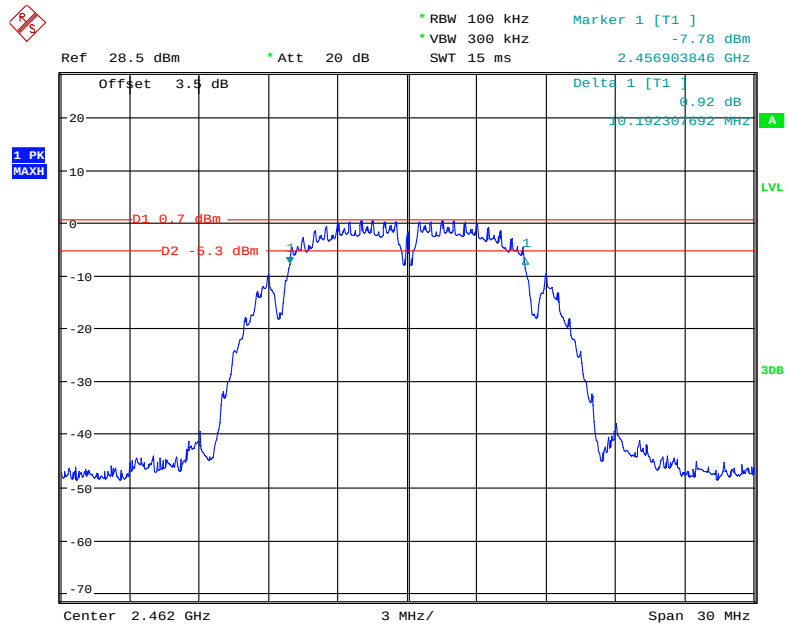
Date: 21.SEP.2017 20:57:10

6 dB Emission Bandwidth, 802.11b Middle Channel



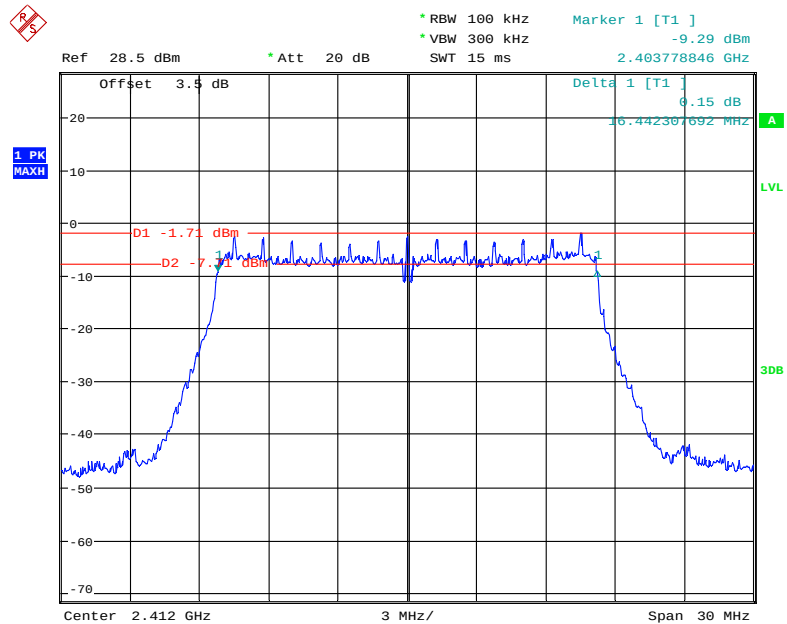
Date: 21.SEP.2017 20:58:31

6 dB Emission Bandwidth, 802.11b High Channel



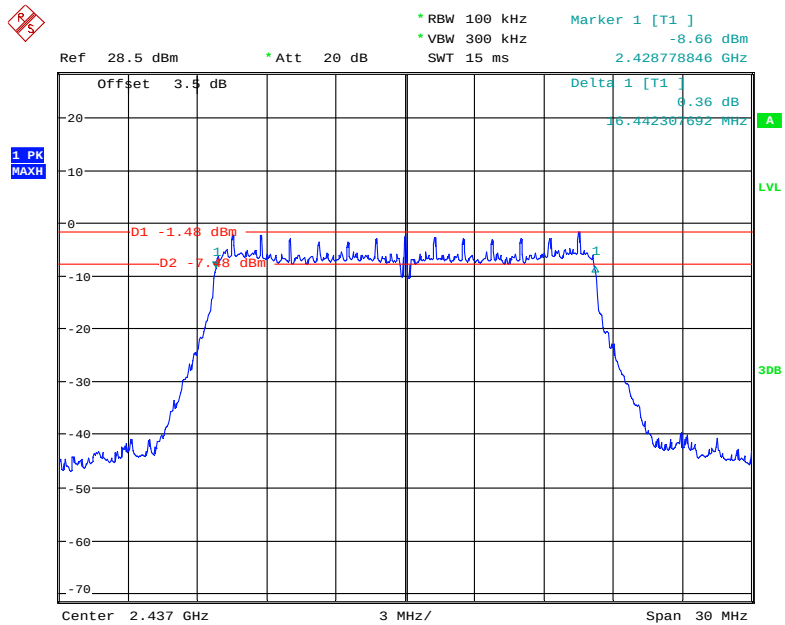
Date: 21.SEP.2017 20:59:30

6 dB Emission Bandwidth, 802.11g Low Channel



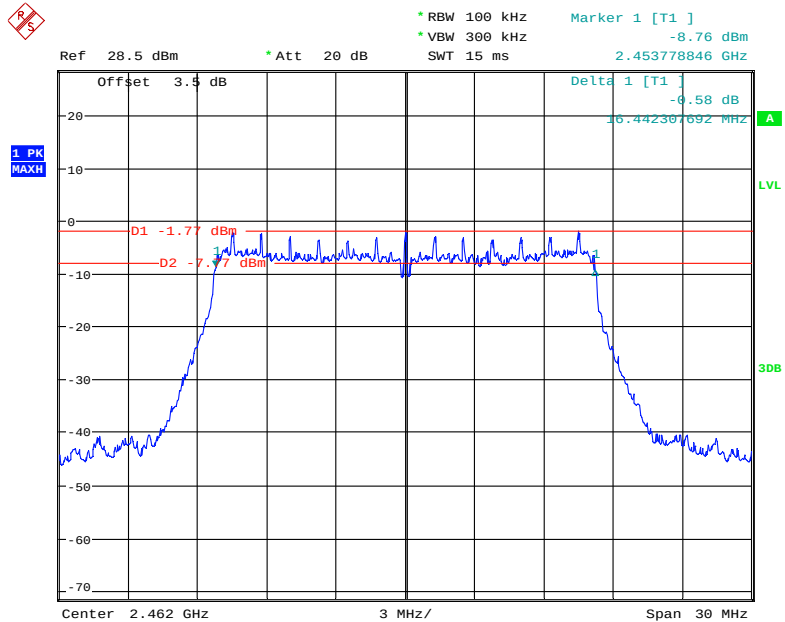
Date: 21.SEP.2017 21:04:47

6 dB Emission Bandwidth, 802.11g Middle Channel



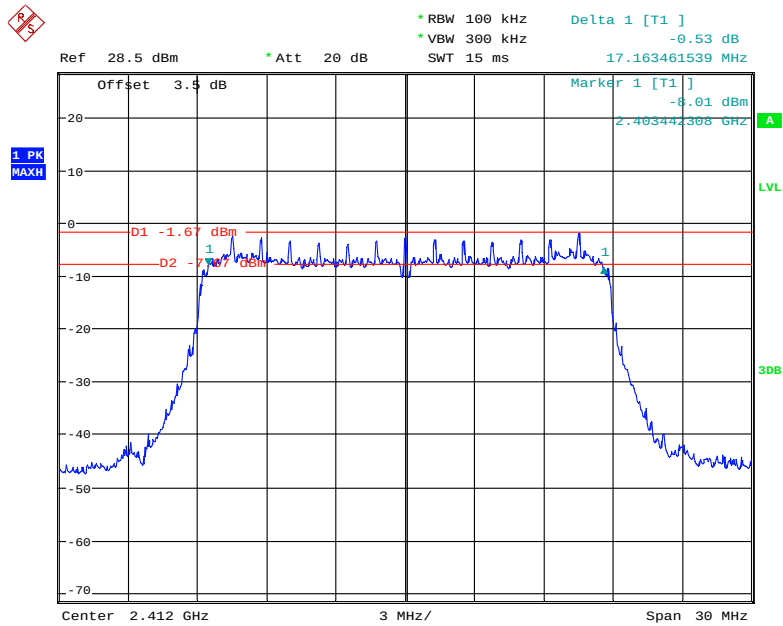
Date: 21.SEP.2017 21:02:59

6 dB Emission Bandwidth, 802.11g High Channel



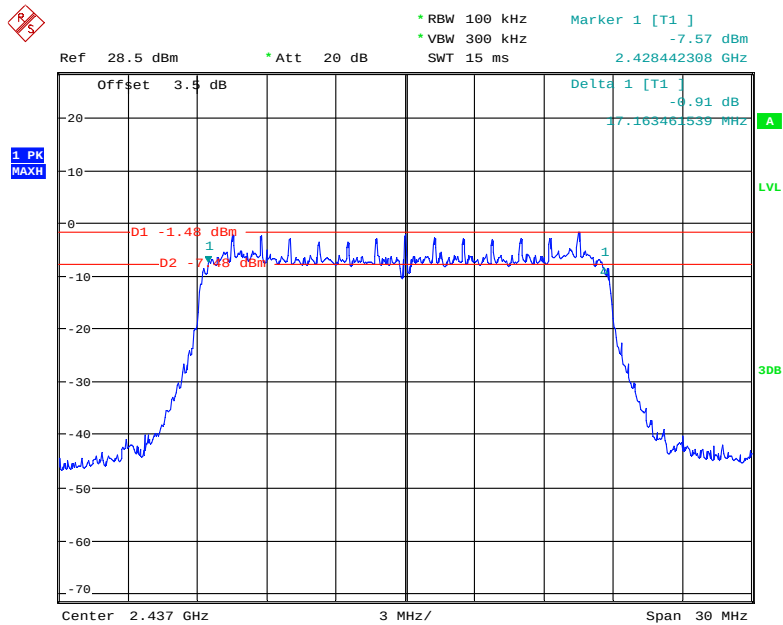
Date: 21.SEP.2017 21:01:13

6 dB Emission Bandwidth, 802.11n-HT20 Low Channel



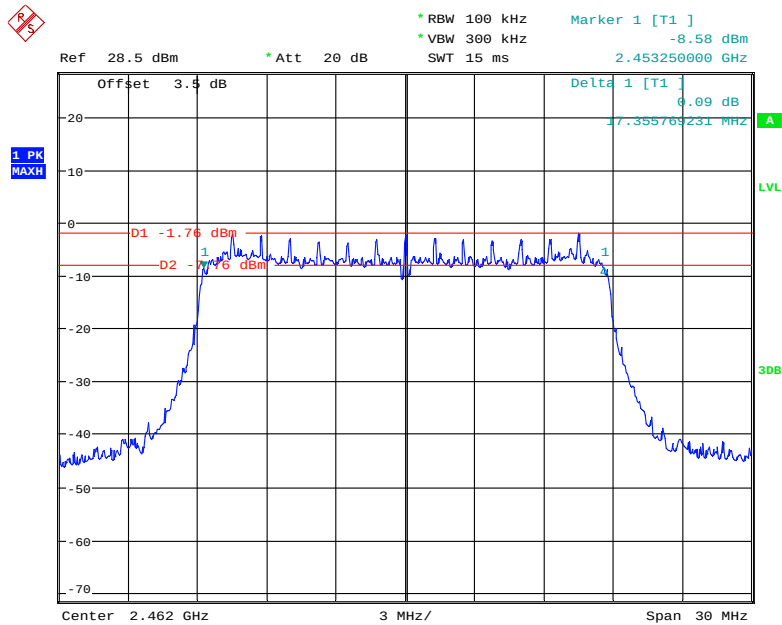
Date: 21.SEP.2017 21:07:56

6 dB Emission Bandwidth, 802.11n-HT20 Middle Channel



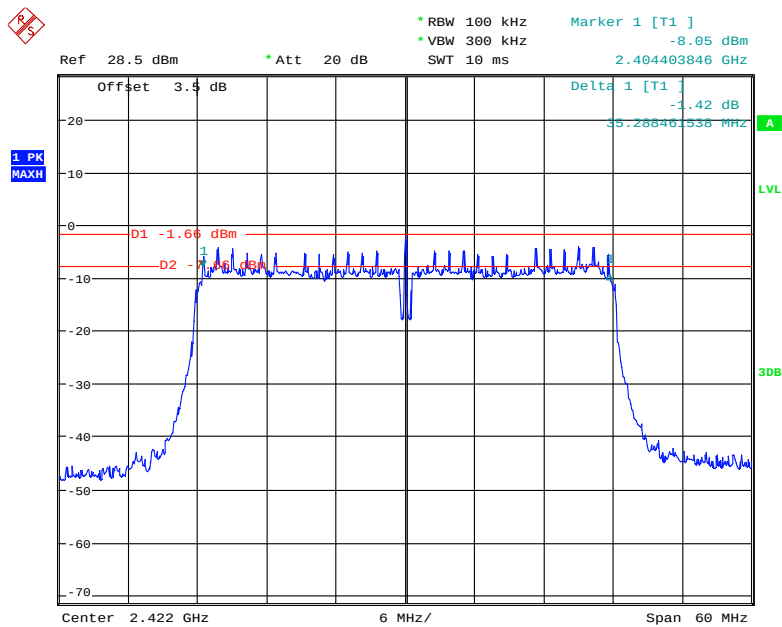
Date: 21.SEP.2017 21:10:00

6 dB Emission Bandwidth, 802.11n-HT20 High Channel



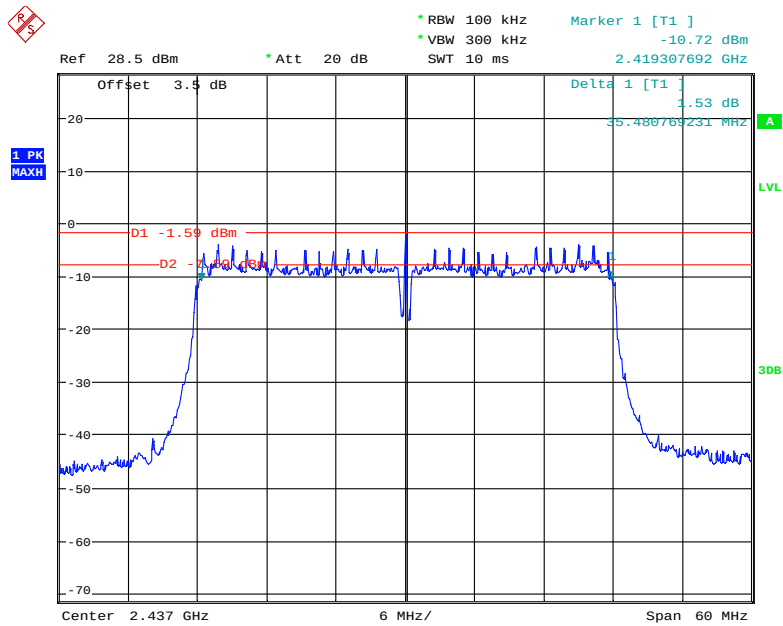
Date: 21.SEP.2017 21:11:43

6 dB Emission Bandwidth, 802.11n-HT40 Low Channel



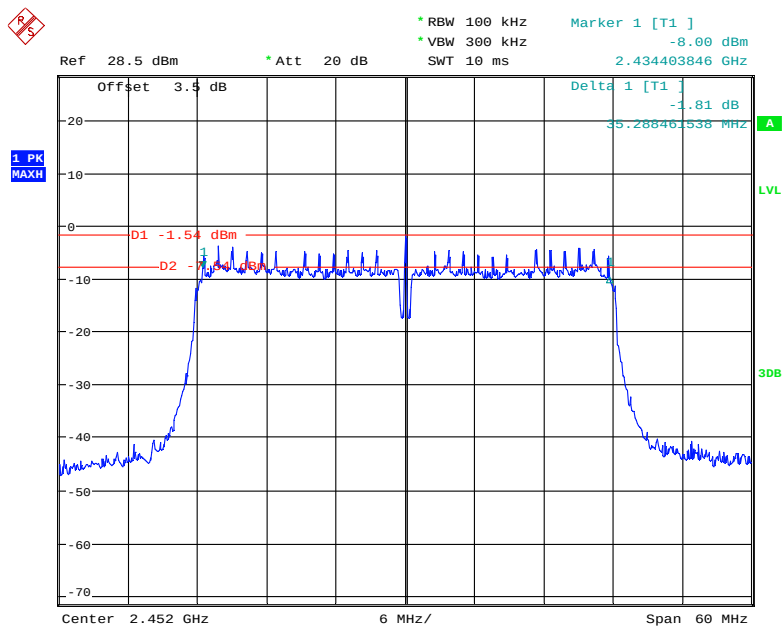
Date: 21.SEP.2017 21:16:36

6 dB Emission Bandwidth, 802.11n-HT40 Middle Channel



Date: 21.SEP.2017 21:15:28

6 dB Emission Bandwidth, 802.11n-HT40 High Channel



Date: 21.SEP.2017 21:13:49

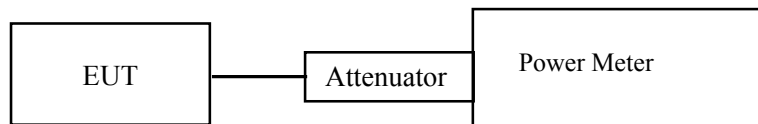
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

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 Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jacob Kong on 2017-09-22.

EUT operation mode: Transmitting

Wi-Fi mode

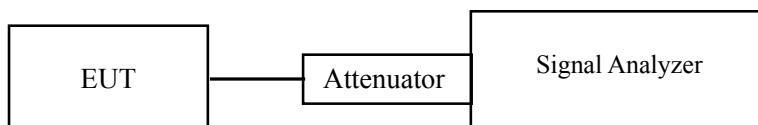
Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
802.11b				
Low	2412	14.67	11.65	30
Middle	2437	14.97	11.90	30
High	2462	14.77	11.25	30
802.11g				
Low	2412	17.46	13.26	30
Middle	2437	17.76	13.33	30
High	2462	17.49	11.37	30
802.11n HT20				
Low	2412	17.43	11.27	30
Middle	2437	17.68	11.55	30
High	2462	17.54	11.42	30
802.11n HT40				
Low	2422	18.51	12.35	30
Middle	2437	18.59	12.39	30
High	2452	18.52	12.43	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 Data****Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

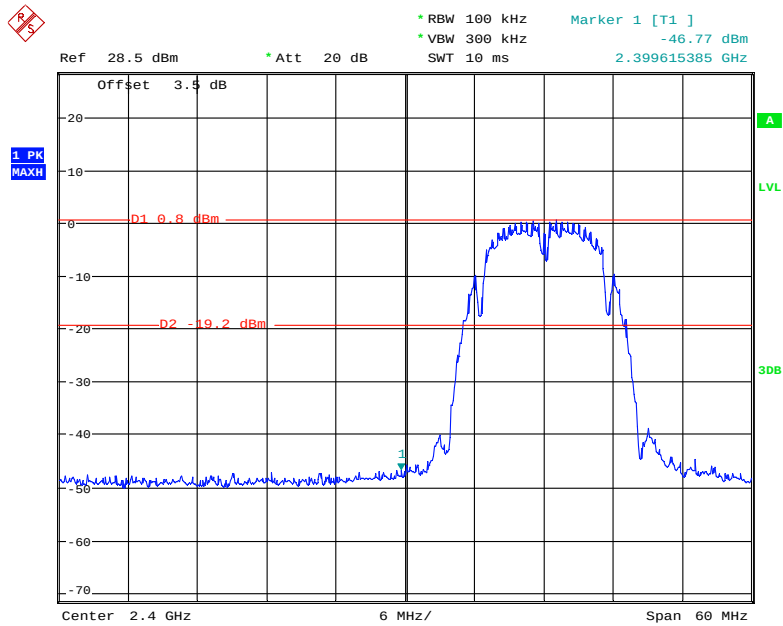
The testing was performed by Jacob Kong on 2017-09-21.

EUT operation mode: Transmitting

Test Result: Compliance

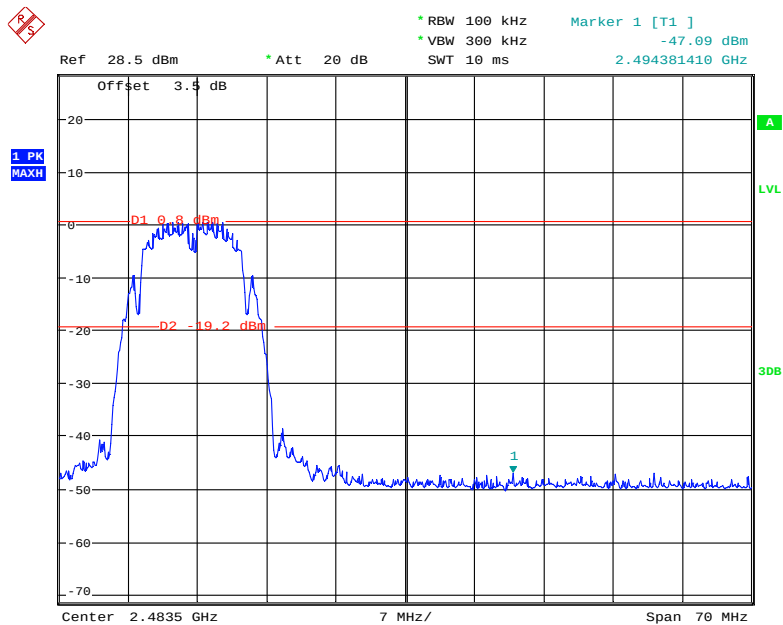
Please refer to the following plots.

802.11b: Band Edge, Left Side



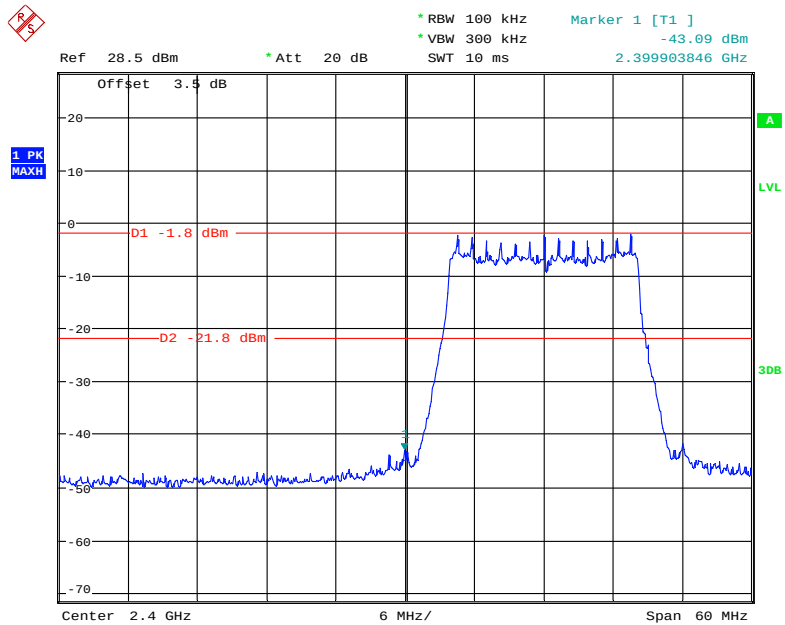
Date: 21.SEP.2017 20:52:35

802.11b: Band Edge, Right Side



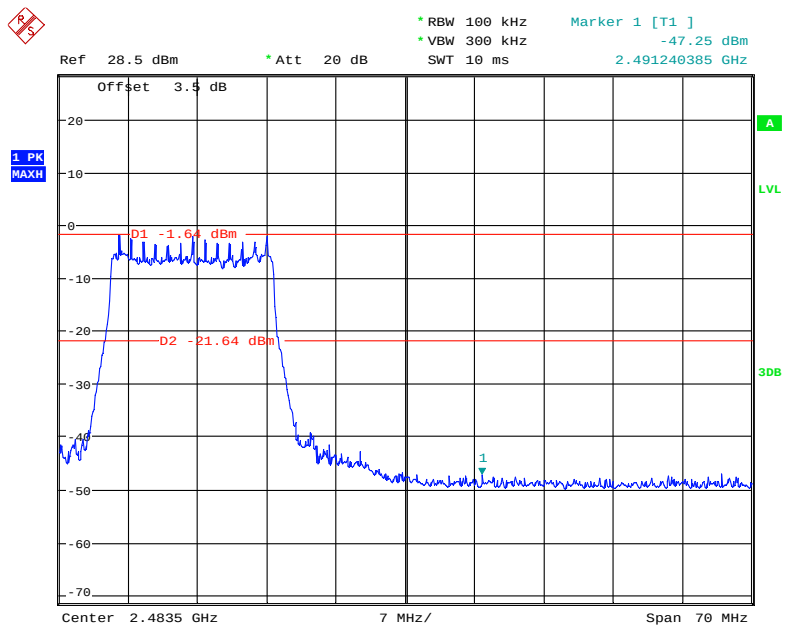
Date: 21.SEP.2017 20:53:50

802.11g: Band Edge, Left Side



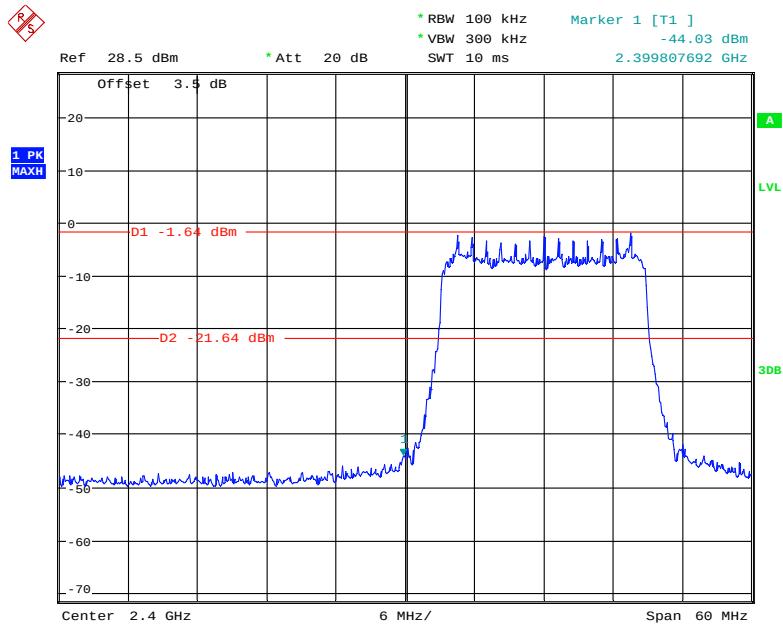
Date: 21.SEP.2017 20:54:57

802.11g: Band Edge, Right Side



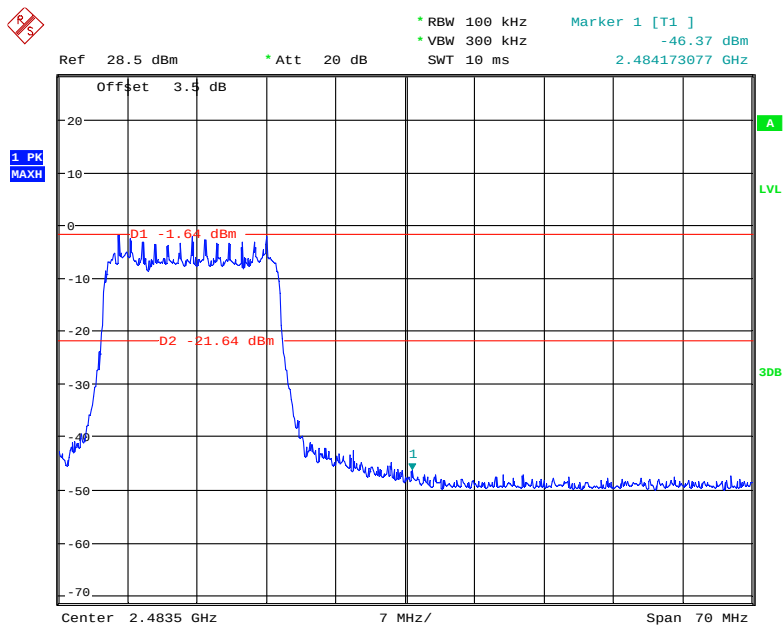
Date: 21.SEP.2017 20:49:54

802.11n-HT20: Band Edge, Left Side



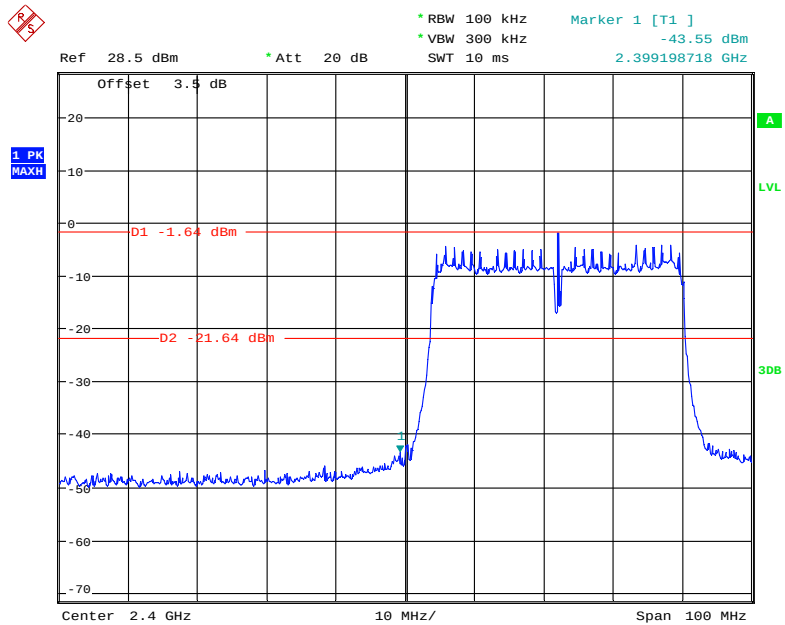
Date: 21.SEP.2017 20:47:51

802.11n-HT20: Band Edge, Right Side



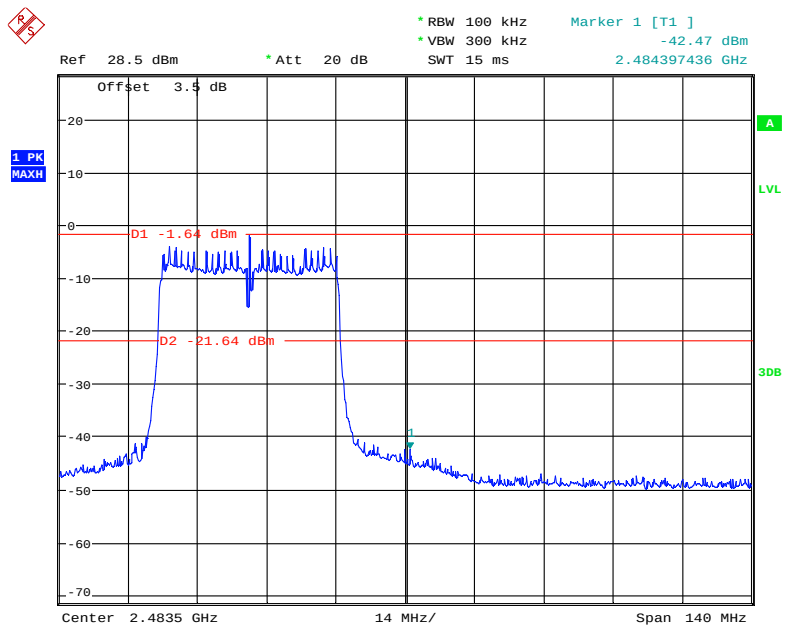
Date: 21.SEP.2017 20:48:50

802.11n-HT40: Band Edge, Left Side



Date: 21.SEP.2017 20:46:26

802.11n-HT40: Band Edge, Right Side



Date: 21.SEP.2017 20:44:58

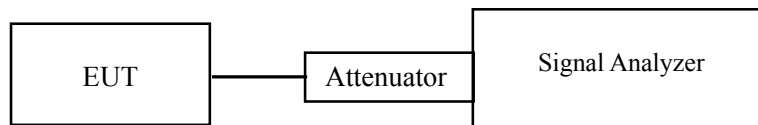
FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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

Test Procedure

1. 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 Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

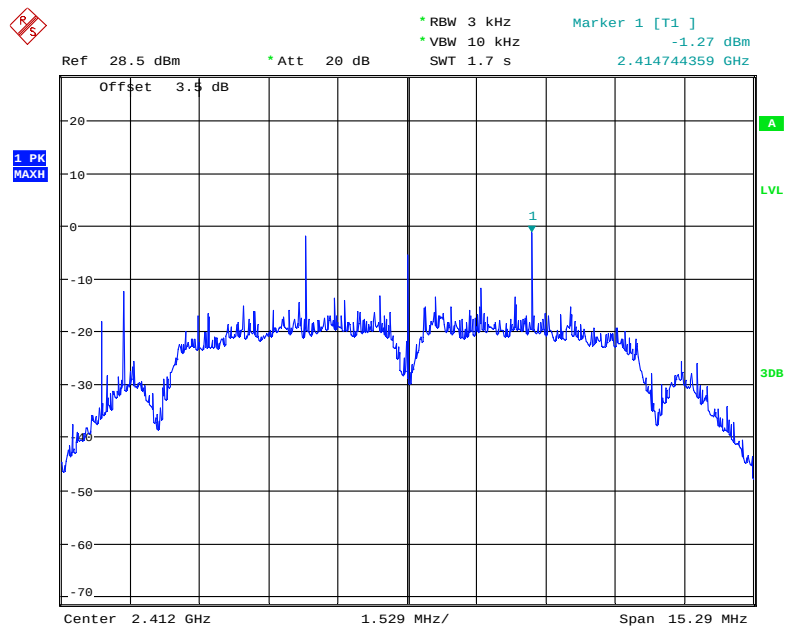
The testing was performed by Jacob Kong on 2017-09-21.

EUT operation mode: Transmitting

Test Result: Pass

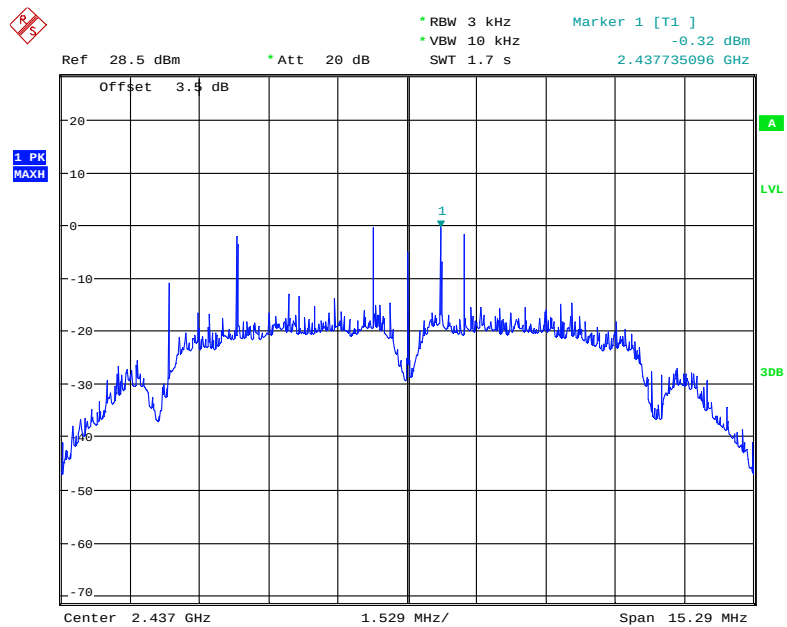
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-1.27	≤ 8
Middle	2437	-0.32	≤ 8
High	2462	-1.56	≤ 8
802.11g mode			
Low	2412	-4.18	≤ 8
Middle	2437	-3.67	≤ 8
High	2462	-3.81	≤ 8
802.11n-HT20 mode			
Low	2412	-3.90	≤ 8
Middle	2437	-3.81	≤ 8
High	2462	-3.82	≤ 8
802.11n HT40			
Low	2422	-2.60	≤ 8
Middle	2437	-2.56	≤ 8
High	2452	-2.55	≤ 8

Power Spectral Density, 802.11b Low Channel



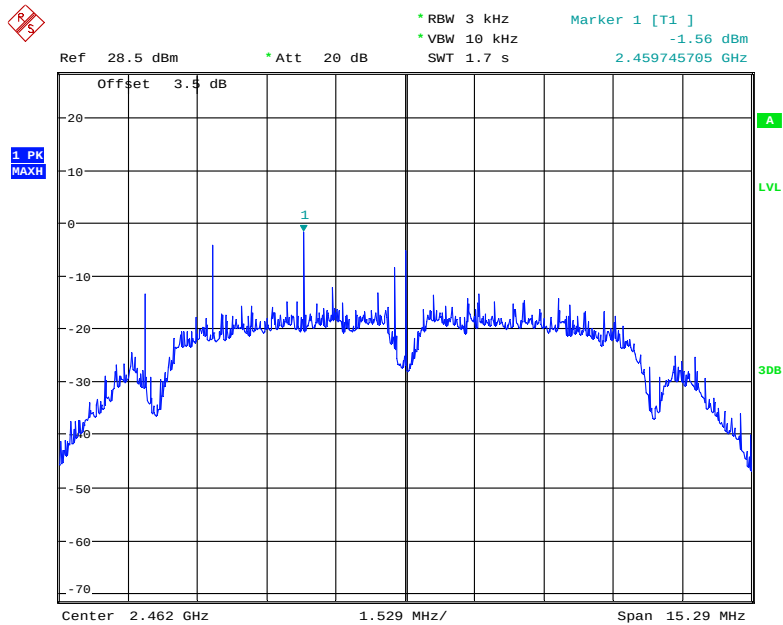
Date: 21.SEP.2017 21:27:14

Power Spectral Density, 802.11b Middle Channel



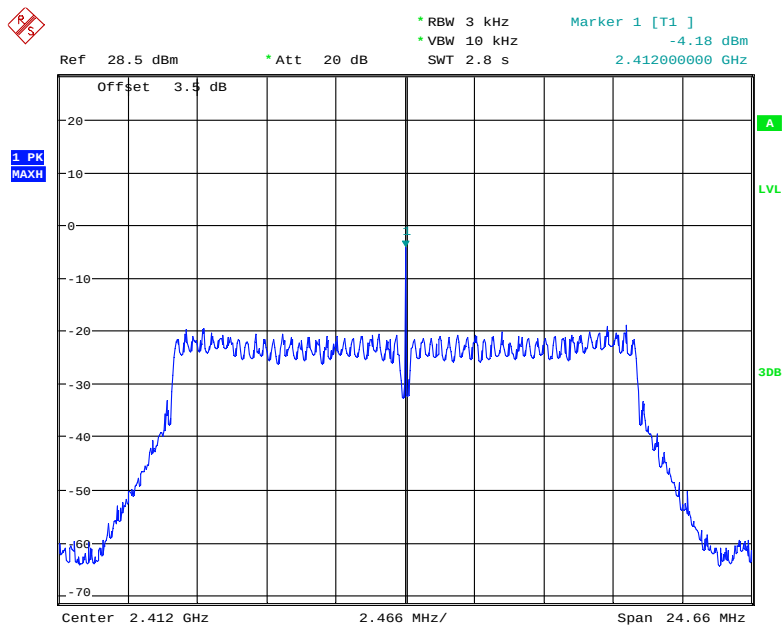
Date: 21.SEP.2017 21:26:17

Power Spectral Density, 802.11b High Channel



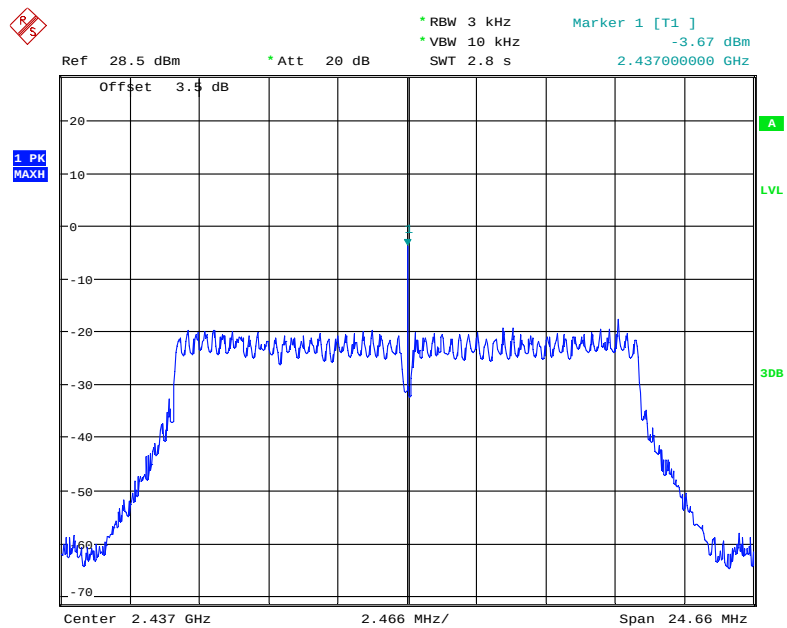
Date: 21.SEP.2017 21:25:40

Power Spectral Density, 802.11g Low Channel



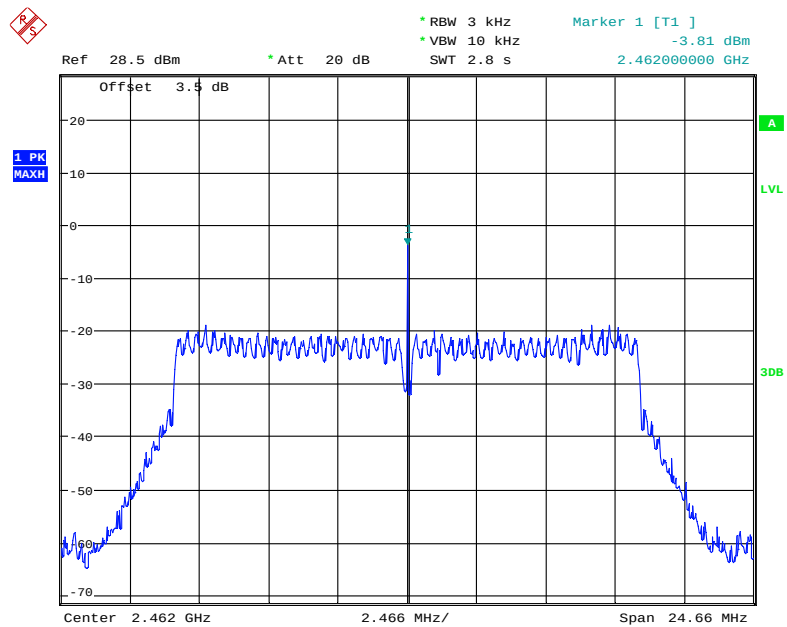
Date: 21.SEP.2017 21:23:28

Power Spectral Density, 802.11g Middle Channel



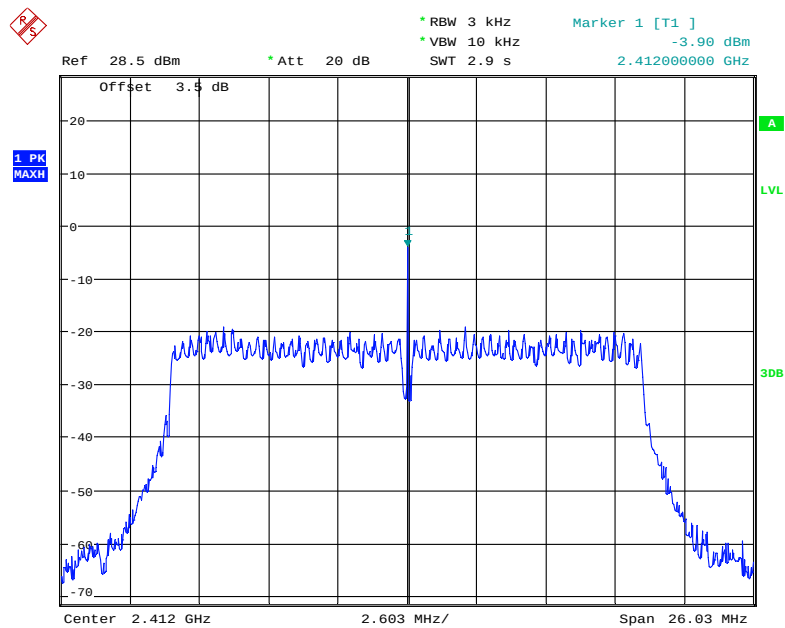
Date: 21.SEP.2017 21:23:58

Power Spectral Density, 802.11g High Channel



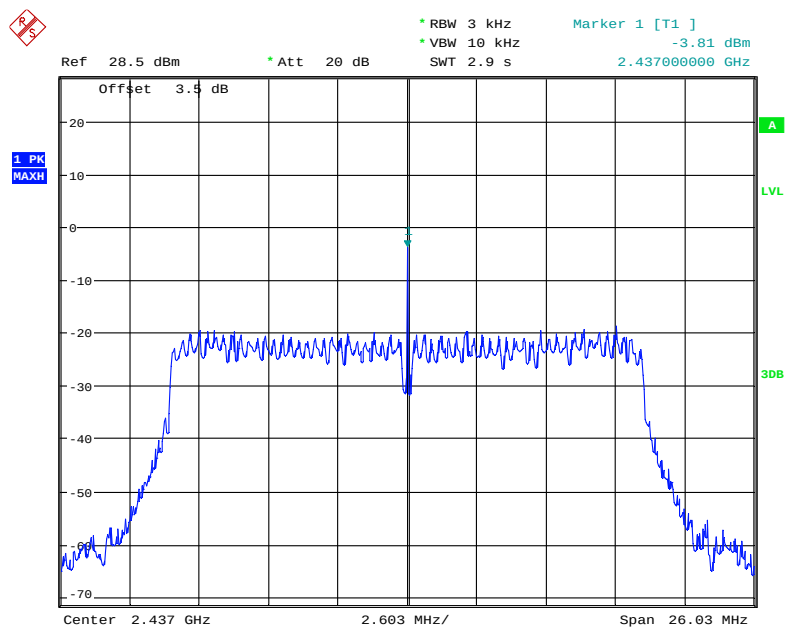
Date: 21.SEP.2017 21:24:20

Power Spectral Density, 802.11n-HT20 Low Channel



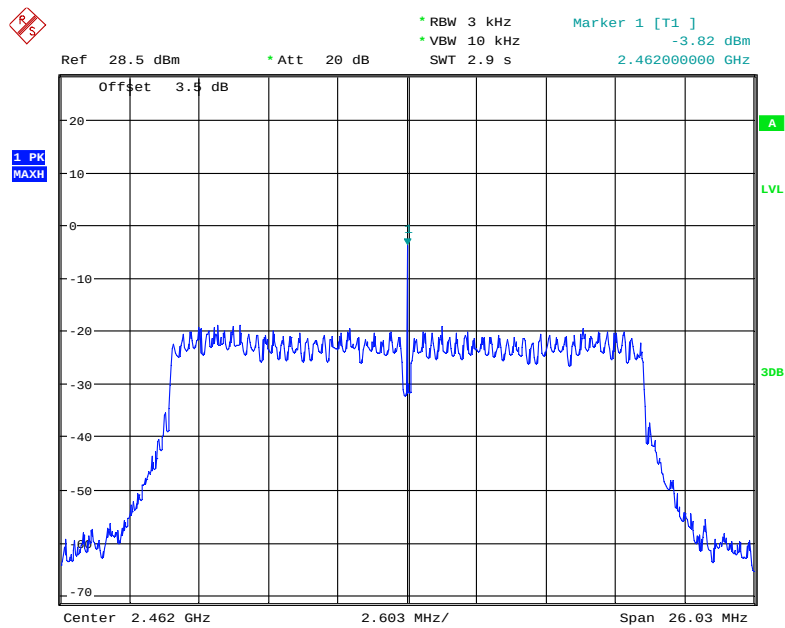
Date: 21.SEP.2017 21:22:30

Power Spectral Density, 802.11n-HT20 Middle Channel



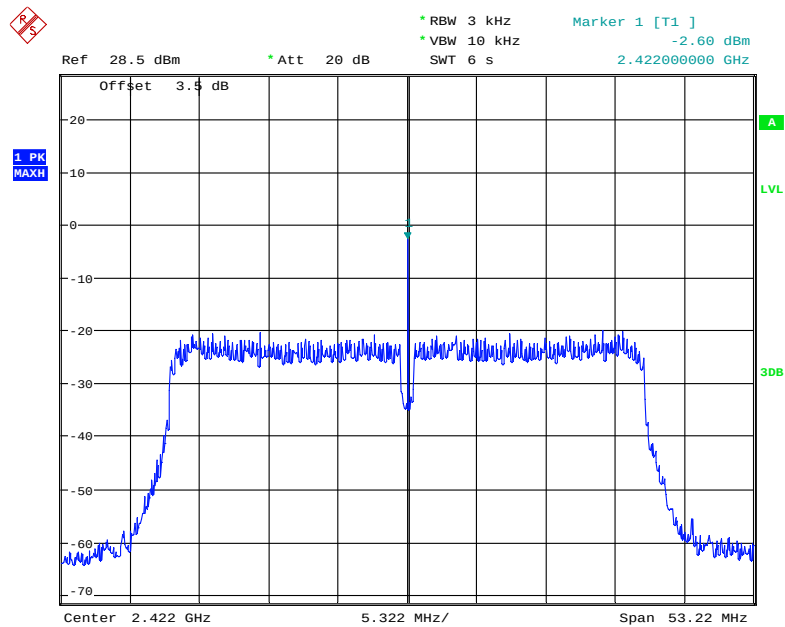
Date: 21.SEP.2017 21:22:07

Power Spectral Density, 802.11n-HT20 High Channel



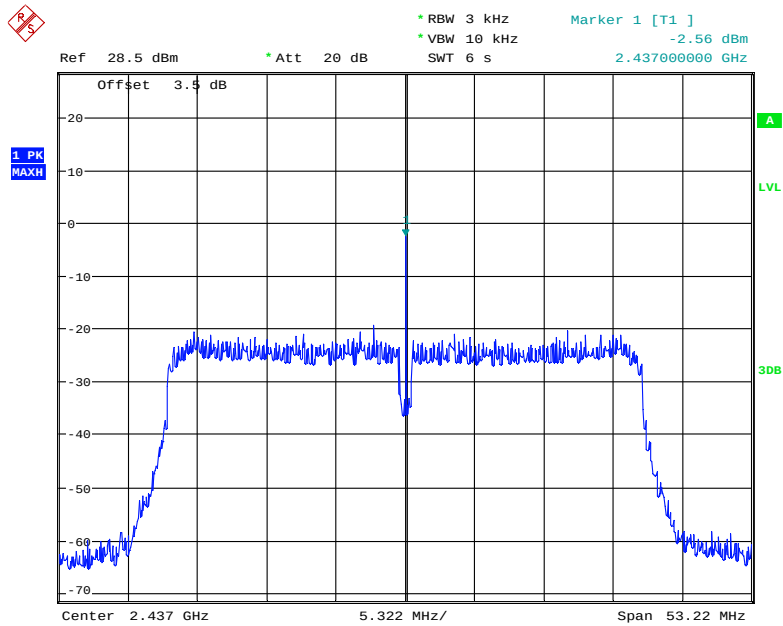
Date: 21.SEP.2017 21:21:41

Power Spectral Density, 802.11n-HT40 Low Channel



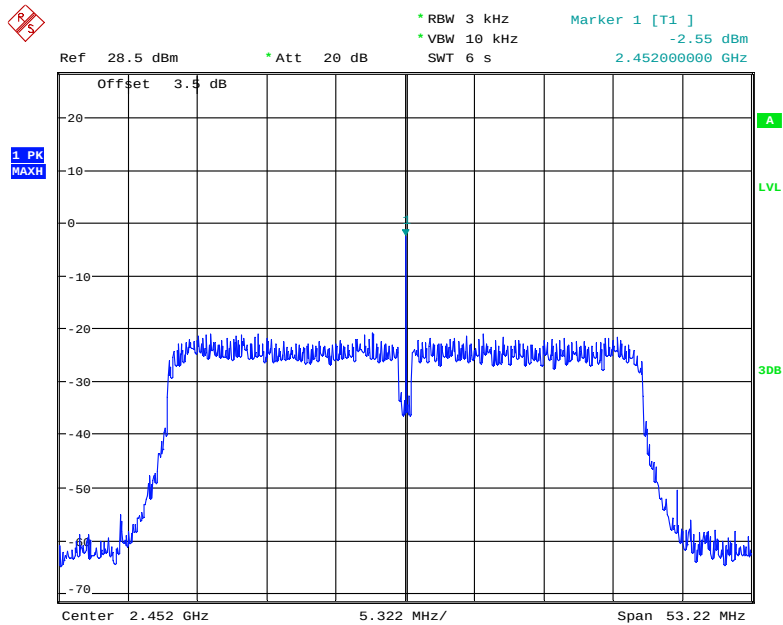
Date: 21.SEP.2017 21:18:44

Power Spectral Density, 802.11n-HT40 Middle Channel



Date: 21.SEP.2017 21:19:11

Power Spectral Density, 802.11n-HT40 High Channel



Date: 21.SEP.2017 21:20:57

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