

Test Report of FCC CFR 47 Part 15 Subpart C

On Behalf of

NEXXT SOLUTIONS
3505 N.W 107TH AVE. MIAMI, Florida 33178, United States

Product Name:	Wireless Router
Model/Type No.:	ARN02304U8
FCC ID Number:	FCC ID: X4YAMP300
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Report Number:	HCT17GR190E-1
Tested Date:	July 02~09, 2017
Issued Date:	July 09, 2017
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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	NEXXT SOLUTIONS
Address of Applicant:	3505 N.W 107TH AVE. MIAMI, Florida 33178, United States
Manufacturer:	YICHEN (Shenzhen) Technology Co., Ltd.
Address of Manufacturer:	6th Building, Yasen Industrial Park, Chengxin Road 8, Baolong Industrial Estate, Longgang District, Shenzhen, China.

General Description of E.U.T

Items	Description
EUT Description:	Wireless Router
Model No.:	ARN02304U8
Trade Mark:	NEXXT
Frequency Band:	IEEE 802.11b : 2412MHz~2462MHz; IEEE 802.11g : 2412MHz~2462MHz; IEEE 802.11n HT20 : 2412MHz~2462MHz; IEEE 802.11n HT40 : 2422MHz~2452MHz;
Channel Spacing:	IEEE 802.11b : 5MHz IEEE 802.11g : 5MHz IEEE 802.11n HT20 : 5MHz IEEE 802.11n HT40 : 5MHz
Number of Channels:	IEEE 802.11b : 11 Channels; IEEE 802.11g : 11 Channels; IEEE 802.11n HT20 : 11 Channels; IEEE 802.11n HT40 : 7 Channels;
Transmit Data Rate:	maximum of 150Mbps
Type of Modulation:	IEEE 802.11b: CCK IEEE 802.11g: OFDM IEEE 802.11n HT20: OFDM IEEE 802.11n HT40: OFDM
Antenna Type:	2.4GHz 5dBi WIFI Dipole ANTENNA
Antenna Gain:	Chain1: 5dBi Chain2: 5dBi
Power Rating:	Input: AC 100-240V 0.3mA 50~60Hz Output: DC 5V 1000mA

Remark: * The test data gathered are from the production sample provided by the manufacturer.

1.2 Test standards

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

KDB558074 D01 V04: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under Section 15.247.

RSS-GEN Issue 4: General Requirements for Compliance of Radio Apparatus.

RSS 247 Issue 2: Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSS) and Licence-Exempt Local Area Network (LE-LAN) Devices.

1.3 Test Facility

All measurement required was performed at laboratory of Shenzhen CTL Testing Technology Co., Ltd. Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen, China. There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements.

FCC – Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December, 2013.

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

2.3 General Test Procedures

Conducted Emissions: The EUT is placed on the table, which is 0.8 m above ground plane According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in ANSI C63.10-2013.

2.4 Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Transmitter power conducted	+/- 0.57 dB
Transmitter power Radiated	+/- 2.20 dB
Conducted spurious emission 9KHz-40 GHz	+/- 2.20 dB
Occupied Bandwidth	+/- 0.01 dB
Power Line Conducted Emission	+/- 3.20 dB
Radiated Emission	+/- 4.32 dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.5 Measure Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable less and attenuator factor.
 Offset= RF cable less+ attenuator factor.

Note: Using a temporary antenna connector for the EUT when the conducted measurements are performed.

Equipment	Manufacturer	Model No.	Frequency range(GHz)	Attenuation values(dBm)
Line	Zhenjiang south electronic	RG316	1-12	0.08
			<1G	0.03
			>12G	1.00
Connector	Zhenjiang south electronic	SMA-K/N-J	1-12	0.01
			<1G	0.005
			>12G	0.03



2.6. Block diagram of EUT configuration for test

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Mode	Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	CH1	2412
	1	CH6	2437
	1	CH11	2462
IEEE 802.11g	6	CH1	2412
	6	CH6	2437
	6	CH11	2462
IEEE 802.11N HT20	6.5	CH1	2412
	6.5	CH6	2442
	6.5	CH11	2462
IEEE 802.11N HT40	13.5	CH3	2422
	13.5	CH6	2437
	13.5	CH9	2452

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.7 List of Measuring Equipments Used

Test equipments list of Shenzhen CTL Testing Technology Co., Ltd.

No.	Equipment	Manufacturer	Model No.	S/N	Last Calculator	Due Calculator
1	EMI Test Receiver	R&S	ESCI	100687	2016-7-25	2017-7-24
2	EMI Test Receiver	R&S	ESPI	100097	2016-10-1	2017-10-31
3	Amplifier	HP	8447D	1937A02492	2016-7-25	2017-7-24
4	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2016-7-25	2017-7-24
5	RF POWER AMPLIFIER	FRANKONIA	FLL-75	1020A1109	2016-7-25	2017-7-24
6	6dB Attenuator	FRANKONIA	N/A	1001698	2016-7-25	2017-7-24
7	10dB attenuator	ELECTRO-METRICS	EM-7600	836	2016-7-25	2017-7-24
8	Spectrum Analyzer	R&S	FSP	100397	2016-10-1	2017-10-31
9	Broadband preamplifier	SCH WARZBECK	BBV9718	9718-182	2016-7-25	2017-7-24
10	Power Sensor	Anritsu	ML2438A	1241002	2016-7-25	2017-7-24
11	Power Sensor	Anritsu	MA2411B	1207366	2016-7-25	2017-7-24
12	Horn Antenna	SCHWARZBECK	BBHA 9120D	0437	2016-7-25	2017-7-24
13	Horn Antenna	SCHWARZBECK	BBHA9170	0483	2016-7-25	2017-7-24

3. SUMMARY OF Test RESULTS

FCC/IC Rules	Description of Test	Result
FCC §15.207 IC RSS-GEN Clause 8.8	AC Power Line Conducted Emission	Pass
FCC §15.247(b) IC RSS-247 Issue2 Clause 5.4 (4)	Output Power Measurement	Pass
FCC §15.247(e) IC RSS-247 Issue2 Clause 5.2 (2)	Power Spectral Density	Pass
FCC §15.247(a) IC RSS-247 Issue2 Clause 5.2 (1) IC RSS-GEN Clause 6.6	6dB Bandwidth 99%Occupied Bandwidth	Pass
FCC §15.247 (d) IC RSS-247 Issue2 Clause 5.5	Conducted Spurious Emission	Pass
FCC §15.205 and §15.209 IC RSS-247 Issue2 Clause 5.5	Radiated Spurious Emission	Pass
FCC§15.247 (d) and §15.205 and §15.209 IC RSS-247 Issue2 Clause 5.5	Unwanted Emissions	Pass
FCC §15.203/15.247(b)/(c) IC RSS-GEN Clause 8.3	Antenna Requirement	Pass

4. Test OF AC POWER LINE CONDUCTED EMISSION

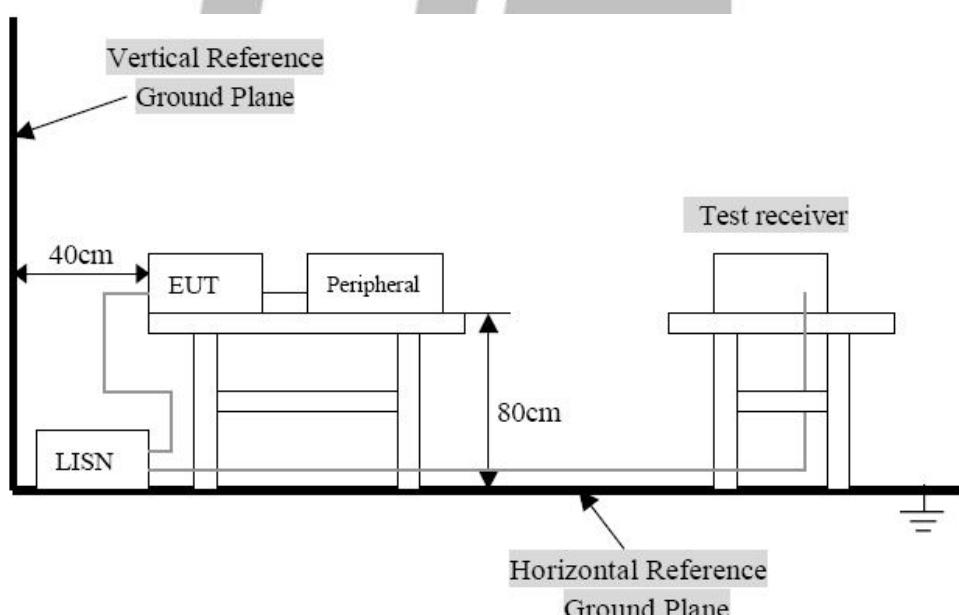
4.1 Applicable standard

Refer to FCC §15.207 and IC RSS-GEN Clause 8.8

For a Low-power Radio-frequency Device is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

4.2 Test Setup Diagram



Remark: The EUT was connected to a 120 VAC/ 60Hz power source.

4.3 Test Result

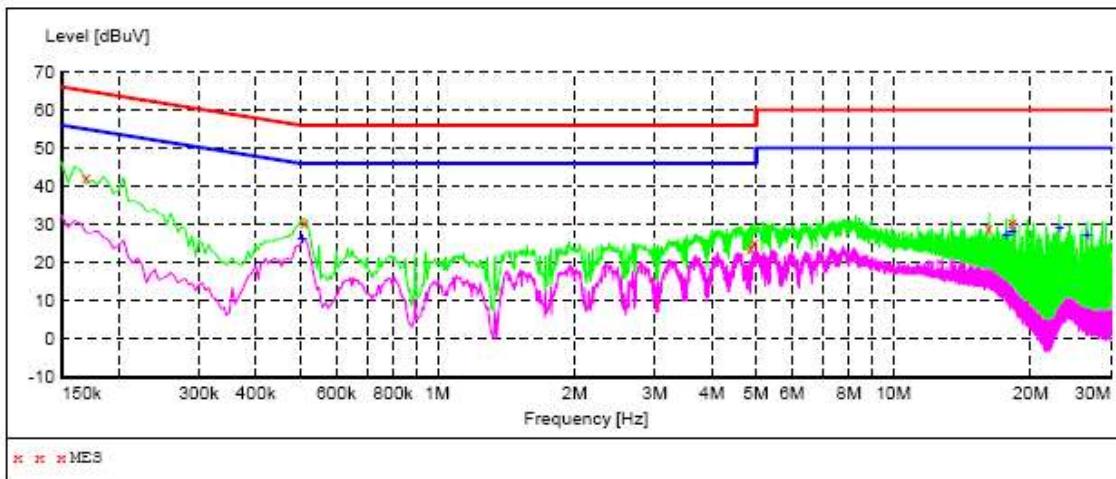
Temperature (°C) : 23~25	EUT: Wireless Router
Humidity (%RH) : 45~58	M/N: ARN02304U8
Barometric Pressure (mbar) : 950~1000	Operation Condition: Continuously Tx Mode

Test result: PASS

Conducted Emission Test Data

EUT: Wireless Router
 M/N: ARN02304U8
 Operating Condition: Tx Mode
 Test Site: Shielded Room
 Operator: Li
 Test Specification: AC 120V/60Hz
 Comment: Live Line
 Start of Test: Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.170000	42.60	15.2	65	22.4	QP	L1	GND
0.510000	30.30	10.4	56	25.7	QP	L1	GND
4.865000	24.10	13.5	56	31.9	QP	L1	GND
4.950000	25.40	13.5	56	30.6	QP	L1	GND
16.165000	29.20	13.4	60	30.8	QP	L1	GND
18.245000	30.60	13.1	60	29.4	QP	L1	GND

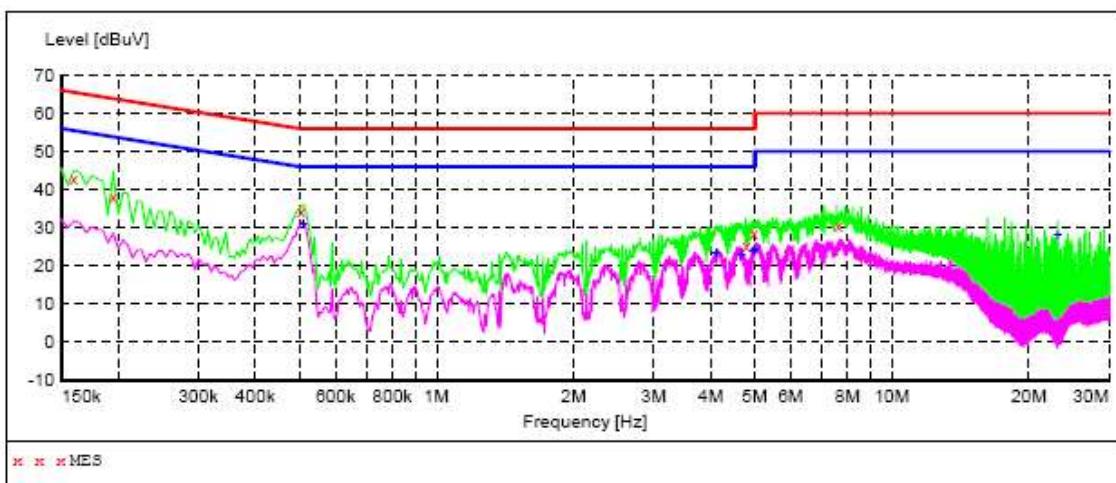
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.505000	26.30	10.4	46	19.7	AV	L1	GND
17.695000	27.30	13.2	50	22.7	AV	L1	GND
18.245000	27.90	13.1	50	22.1	AV	L1	GND
23.130000	28.90	12.2	50	21.1	AV	L1	GND
26.610000	27.40	12.3	50	22.6	AV	L1	GND

Conducted Emission Test Data

EUT: Wireless Router
 M/N: ARN02304U8
 Operating Condition: Tx Mode
 Test Site: Shielded Room
 Operator: Li
 Test Specification: AC 120V/60Hz
 Comment: Neutral Line
 Start of Test: Tem: 25°C Hum:50%

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.160000	43.00	15.3	66	22.5	QP	N	GND
0.195000	38.30	15.0	64	25.5	QP	N	GND
0.505000	34.50	10.4	56	21.5	QP	N	GND
4.785000	25.20	13.4	56	30.8	QP	N	GND
4.980000	28.50	13.5	56	27.5	QP	N	GND
7.630000	30.30	13.6	60	29.7	QP	N	GND

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.510000	31.10	10.4	46	14.9	AV	N	GND
4.115000	23.30	13.3	46	22.7	AV	N	GND
4.670000	22.80	13.4	46	23.2	AV	N	GND
4.960000	23.90	13.5	46	22.1	AV	N	GND
4.995000	24.50	13.5	46	21.5	AV	N	GND
23.130000	28.30	12.2	50	21.7	AV	N	GND

5. Output Power Measurement

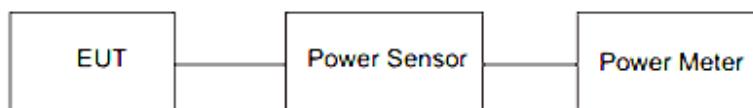
5.1 Applicable standard

Refer to FCC §15.247 (b) and IC RSS-247 Issue2 Clause 5.4 (d).
KDB558074 D01 V04 Section 9.0

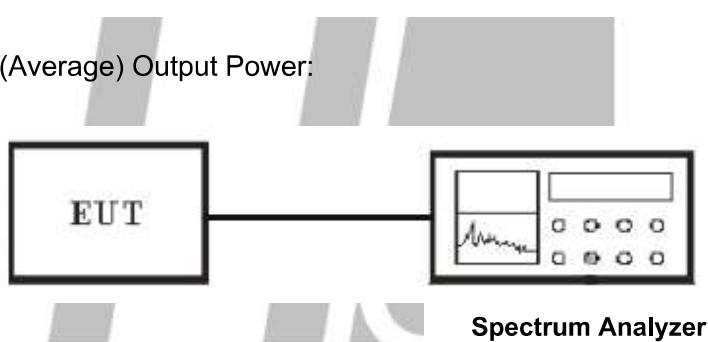
The maximum permissible conducted output power is 1Watt.

5.2 EUT Setup

Peak Output Power:



Maximum Conducted (Average) Output Power:



Spectrum Analyzer

5.3 Test Equipment List and Details

See section 2.7.

5.4 Test Procedure

Maximum Peak Conducted Output Power

Spectrum analyzer

- 1) Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
- 2) Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
- 3) Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.

Power meter

A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

Maximum Conducted Average Output Power (For reference only)

Power meter

A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

5.5 Test Result

Temperature (°C) : 22~23	EUT: Wireless Router
Humidity (%RH): 50~54	M/N: ARN02304U8
Barometric Pressure (mbar): 950~1000	Operation Condition: Continuously Tx Mode



Peak power:

Mode	Test CH	Ant. Port	Peak power (dBm)	Total Peak power (dBm)	Limit (dBm)	Result
802.11b	Low	Chain 1	18.08	20.99	30.00	Pass
		Chain 2	17.88			
	Mid	Chain 1	18.02	21.13	30.00	Pass
		Chain 2	17.92			
	High	Chain 1	17.64	20.79	30.00	Pass
		Chain 2	17.55			
802.11g	Low	Chain 1	15.99	18.45	30.00	Pass
		Chain 2	15.23			
	Mid	Chain 1	15.41	18.45	30.00	Pass
		Chain 2	15.55			
	High	Chain 1	15.23	17.78	30.00	Pass
		Chain 2	14.89			
802.11n20	Low	Chain 1	15.77	18.45	30.00	Pass
		Chain 2	15.45			
	Mid	Chain 1	15.49	18.44	30.00	Pass
		Chain 2	15.11			
	High	Chain 1	15.35	18.45	30.00	Pass
		Chain 2	15.08			
802.11n40	Low	Chain 1	15.60	18.44	30.00	Pass
		Chain 2	14.99			
	Mid	Chain 1	15.41	18.45	30.00	Pass
		Chain 2	15.23			
	High	Chain 1	15.37	18.44	30.00	Pass
		Chain 2	14.88			

Remark: The Total Peak Power (dBm) = $10 * \log\{10^{(\text{Chain 1 Peak Power /10})} + 10^{(\text{Chain 2 Peak Power /10})}\}$.

6. Test of Peak Power Spectral Density

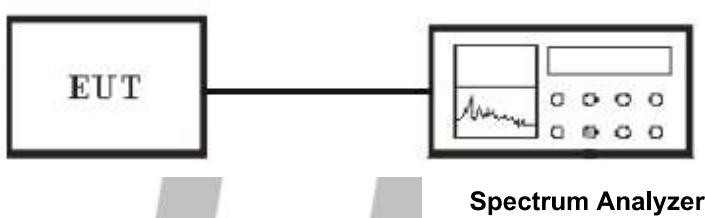
6.1 Applicable standard

Refer to FCC §15.247 (e) and IC RSS-247 Issue2 Clause 5.2 (b).

KDB558074 D01 V04 Section 10.2 Method PKPSD

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.2 EUT Setup



6.3 Test Equipment List and Details

See section 2.7.

6.4 Test Procedure

Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.

- 1) Set the RBW = 3kHz, VBW = 10kHz.
- 2) Detector = Peak, Sweep time = auto couple.
- 3) Trace mode = max hold, allow trace to fully stabilize.
- 4) Use the peak marker function to determine the maximum amplitude level.

Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.

- 1) Set the RBW = 100kHz, VBW = 300 kHz.
- 2) Detector = RMS, Sweep time = auto couple.
- 3) Perform the measurement over a single sweep.
- 4) Use the peak marker function to determine the maximum amplitude level.

6.5 Test Result

Temperature (°C) : 22~23	EUT: Wireless Router
Humidity (%RH) : 50~54	M/N: ARN02304U8
Barometric Pressure (mbar) : 950~1000	Operation Condition: Continuously Tx Mode

Chain:

IEEE 802.11b mode

Channel	Channel Frequency (MHz)	Power Level in 3KHz RBW (dBm)			Maximum Limit (dBm)	Pass / Fail
		Chain 1	Chain2	Total		
Low	2412	-4.97	-2.71	-1.54	8	PASS
Middle	2437	-3.82	-2.96	-1.54	8	PASS
High	2462	-4.66	-4.47	-1.54	8	PASS

IEEE 802.11g mode

Channel	Channel Frequency (MHz)	Power Level in 3KHz RBW (dBm)			Maximum Limit (dBm)	Pass / Fail
		Chain 1	Chain2	Total		
Low	2412	-7.83	-9.91	-6.98	8	PASS
Middle	2437	-9.04	-9.19	-6.99	8	PASS
High	2462	-7.96	-9.66	-6.98	8	PASS

IEEE 802.11n HT20 mode

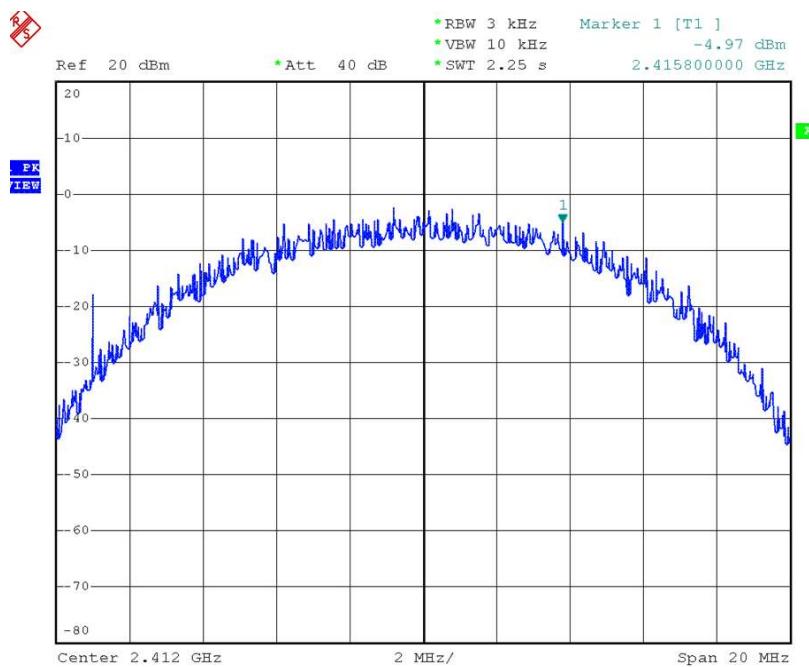
Channel	Channel Frequency (MHz)	Power Level in 3KHz RBW (dBm)			Maximum Limit (dBm)	Pass / Fail
		Chain 1	Chain2	Total		
Low	2412	-6.94	-7.54	-6.97	8	PASS
Middle	2437	-7.68	-9.28	-7.01	8	PASS
High	2462	-7.47	-8.13	-7.02	8	PASS

IEEE 802.11n HT40 mode

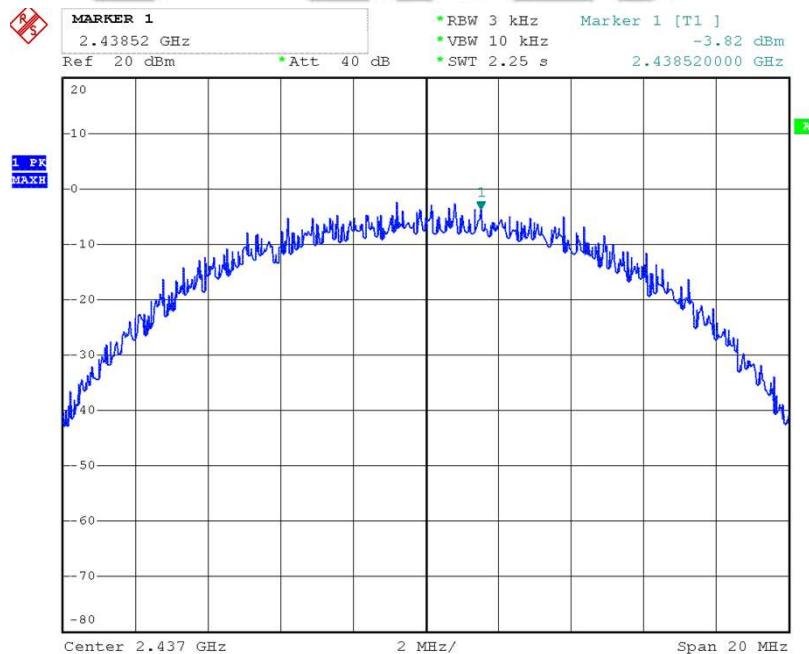
Channel	Channel Frequency (MHz)	Power Level in 3KHz RBW (dBm)			Maximum Limit (dBm)	Pass / Fail
		Chain 1	Chain2	Total		
Low	2422	-10.70	-9.07	-8.22	8	PASS
Middle	2437	-10.92	-8.68	-8.23	8	PASS
High	2452	-10.67	-10.89	-8.22	8	PASS

CH1

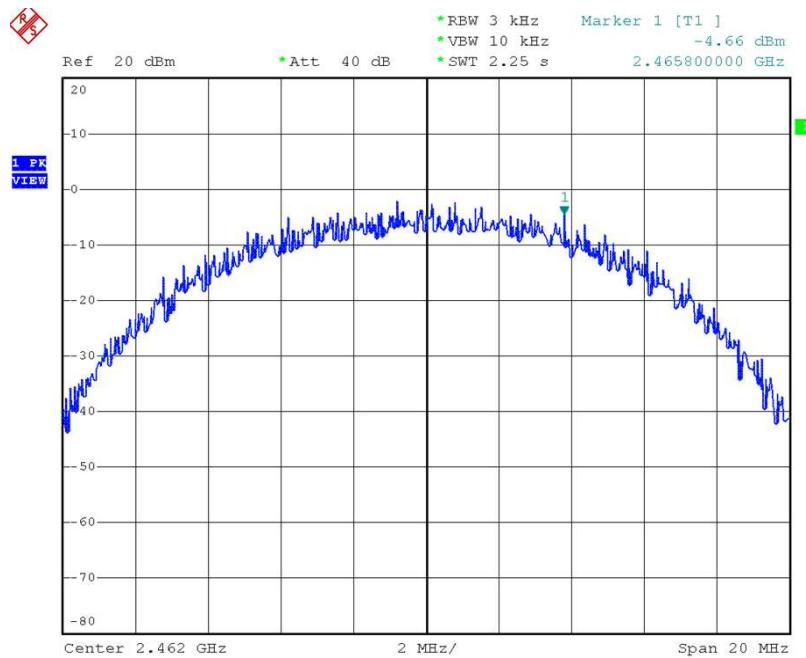
POWER SPECTRAL DENSITY (IEEE 802.11b MODE CH Low)



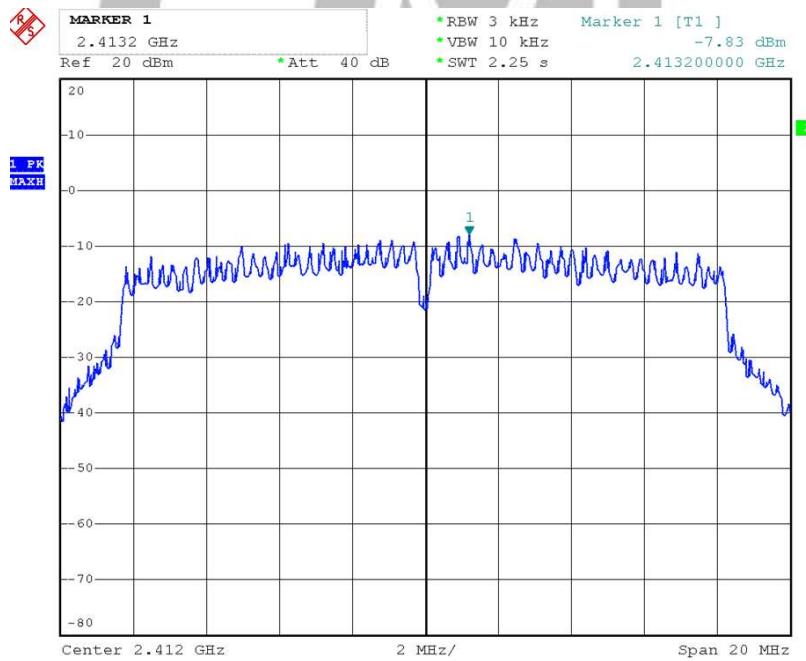
POWER SPECTRAL DENSITY (IEEE 802.11b MODE CH Mid)



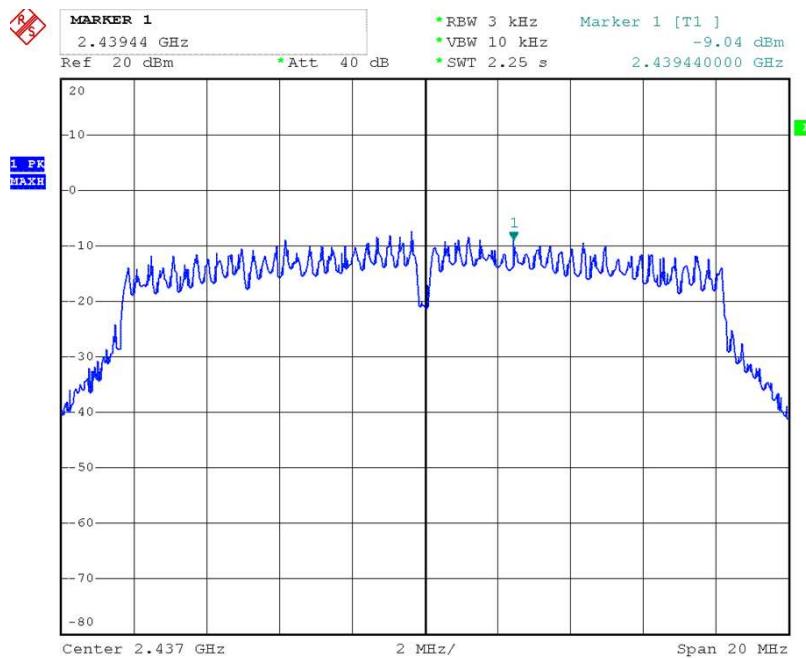
POWER SPECTRAL DENSITY (IEEE 802.11b MODE CH High)



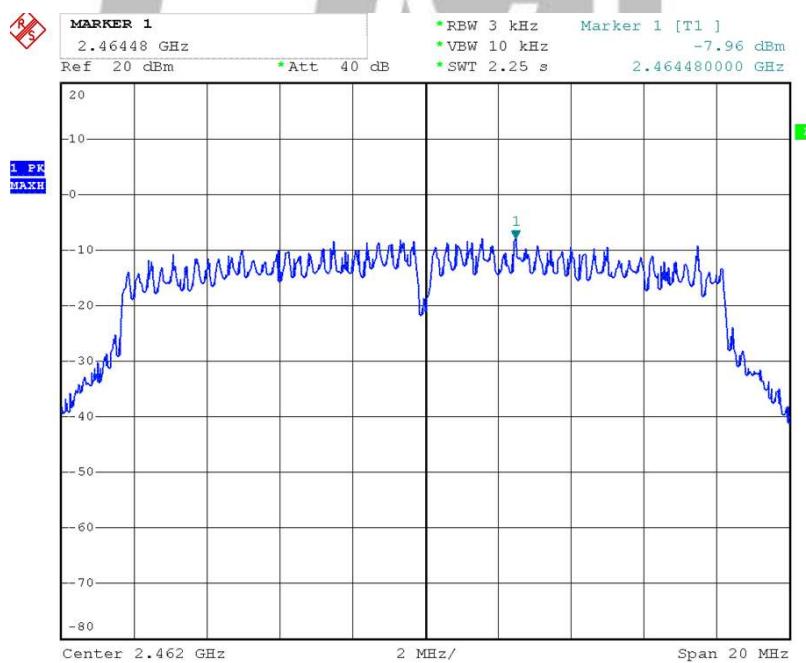
POWER SPECTRAL DENSITY (IEEE 802.11g MODE CH Low)



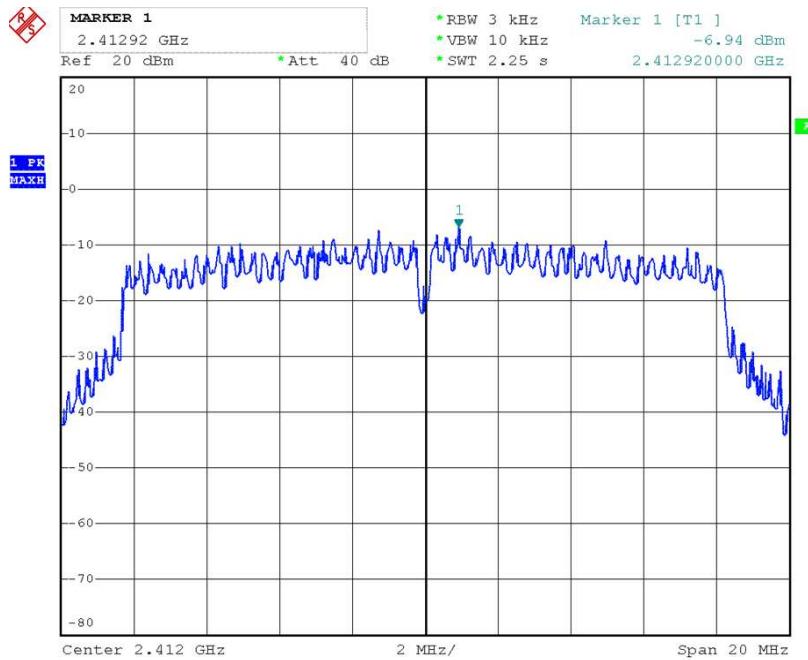
POWER SPECTRAL DENSITY (IEEE 802.11g MODE CH Mid)



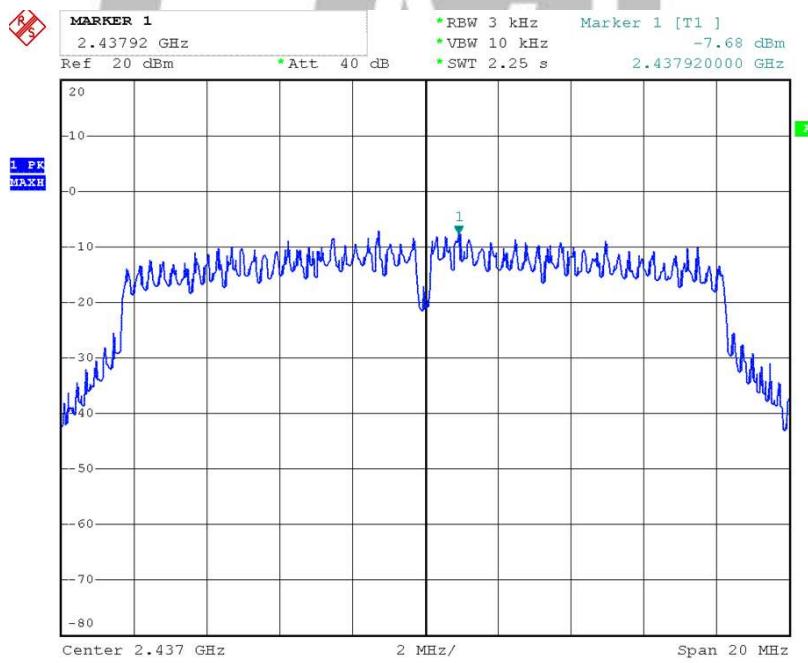
POWER SPECTRAL DENSITY (IEEE 802.11g MODE CH High)



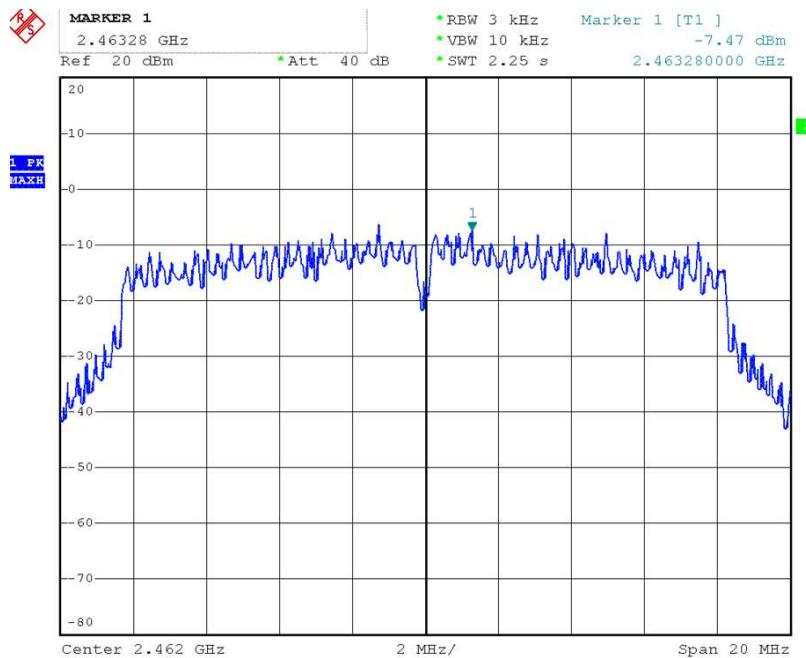
POWER SPECTRAL DENSITY (IEEE 802.11n HT20 MODE CH Low)



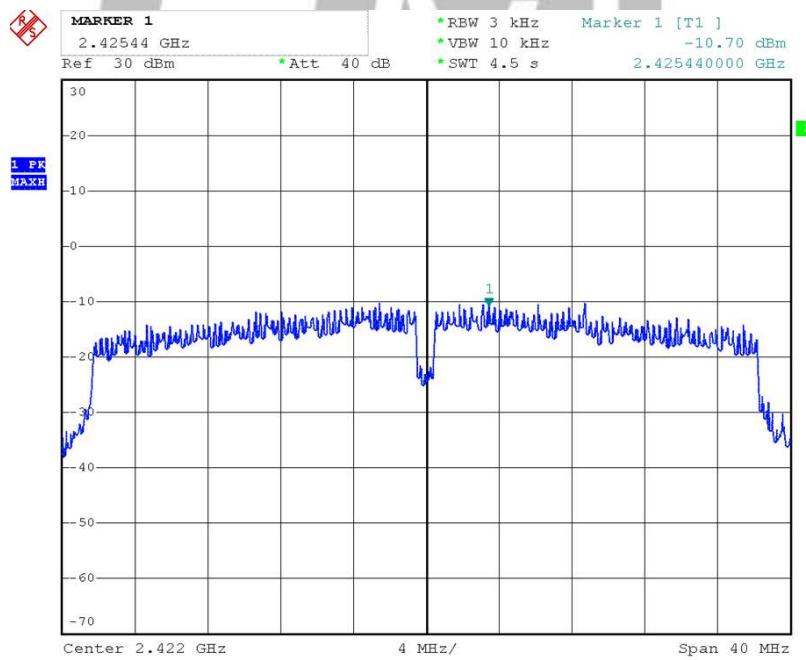
POWER SPECTRAL DENSITY (IEEE 802.11n HT20 MODE CH Mid)



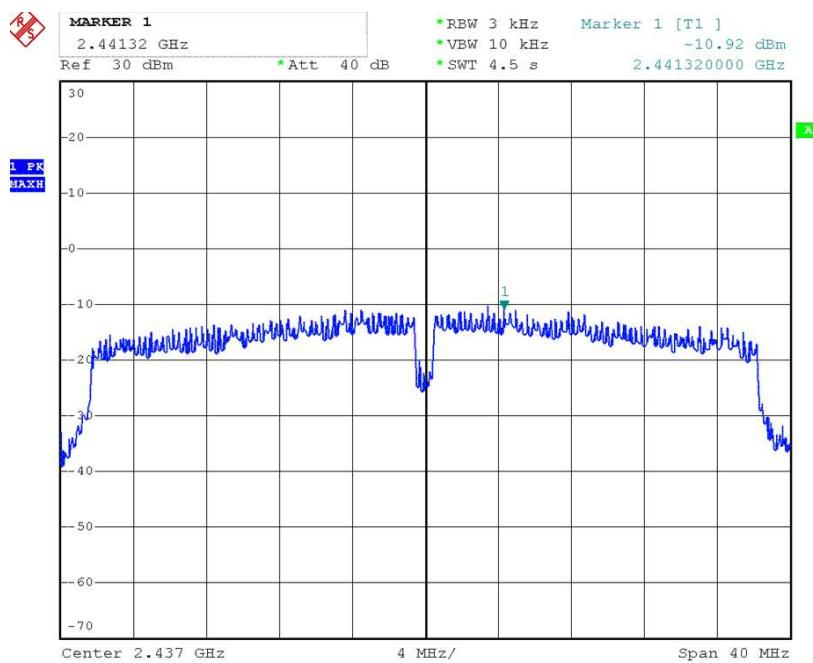
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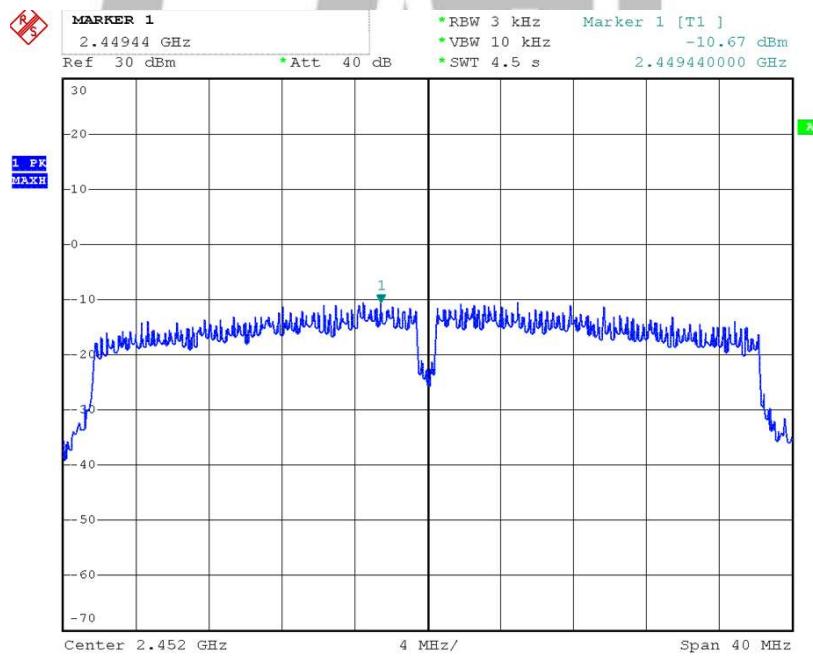
POWER SPECTRAL DENSITY (IEEE 802.11n HT40 MODE CH Low)



POWER SPECTRAL DENSITY (IEEE 802.11n HT40 MODE CH Mid)

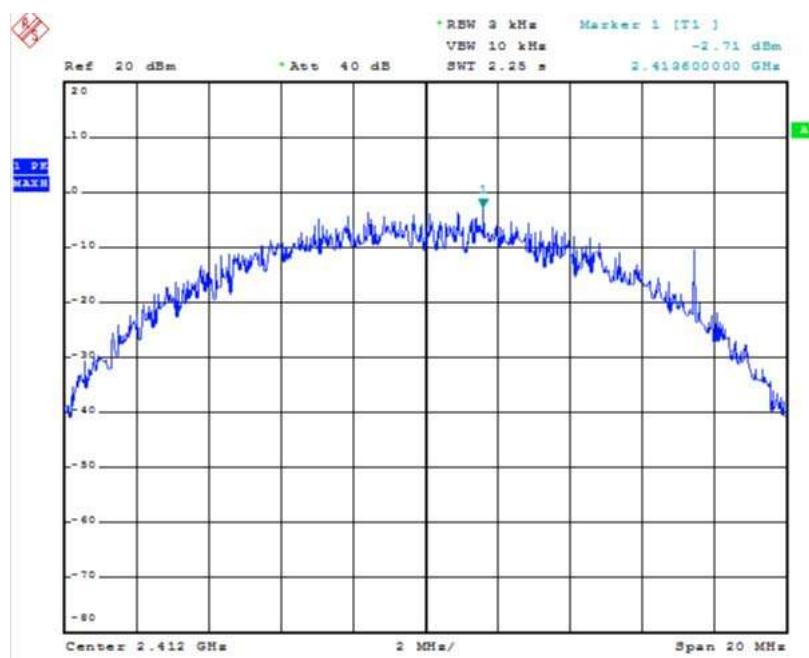


POWER SPECTRAL DENSITY (IEEE 802.11n HT40 MODE CH High)

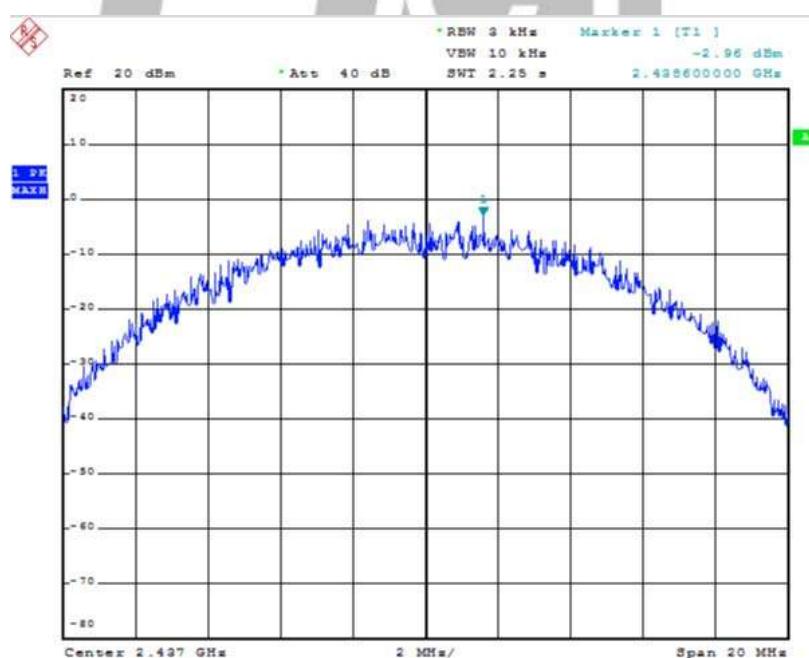


CH2

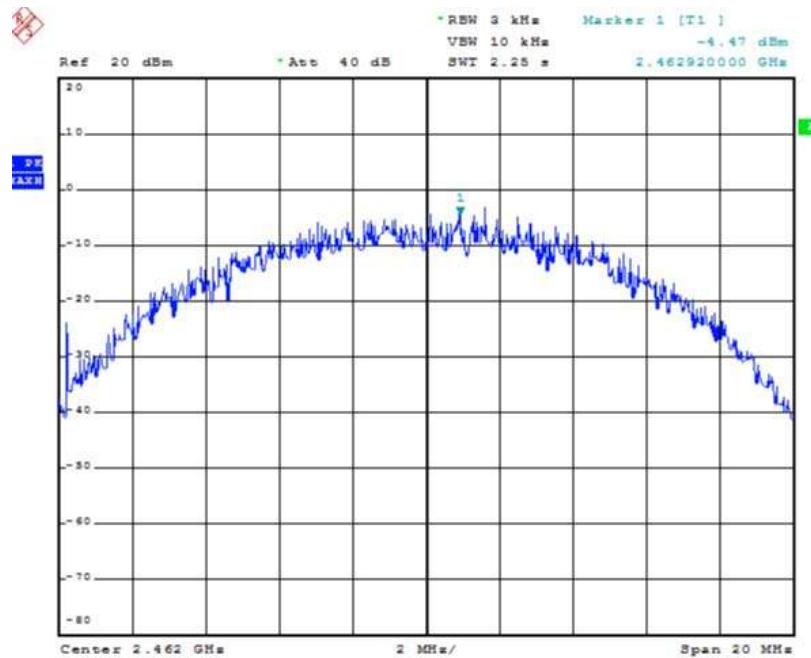
POWER SPECTRAL DENSITY (IEEE 802.11b MODE CH Low)



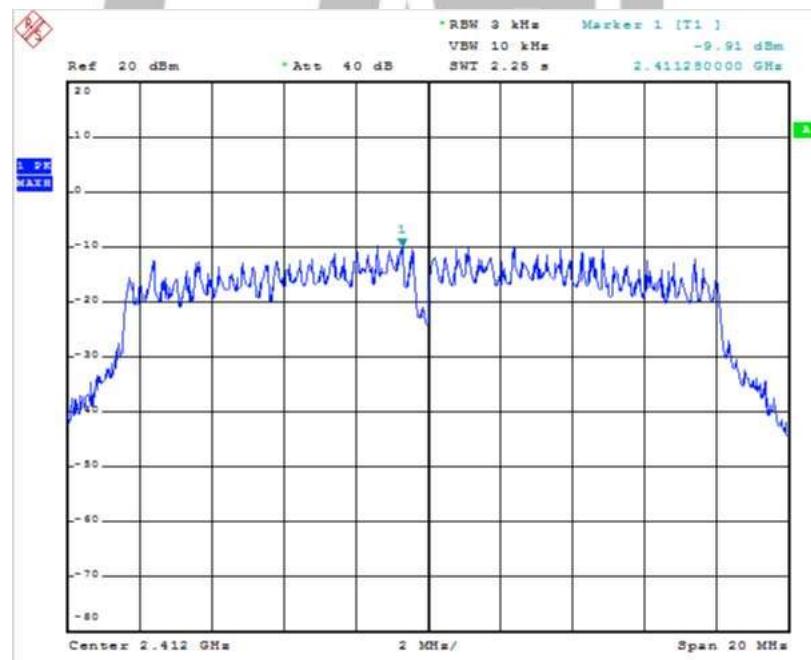
POWER SPECTRAL DENSITY (IEEE 802.11b MODE CH Mid)



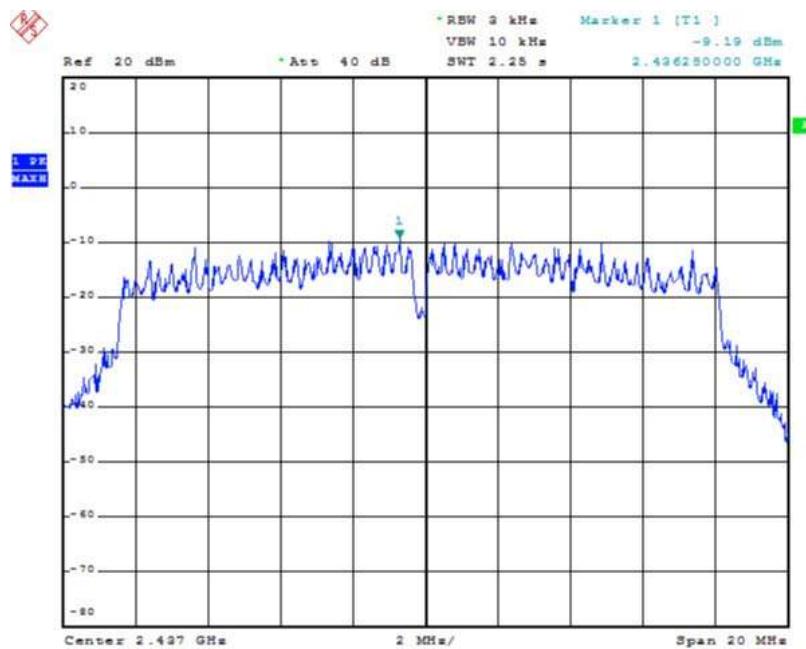
POWER SPECTRAL DENSITY (IEEE 802.11b MODE CH High)



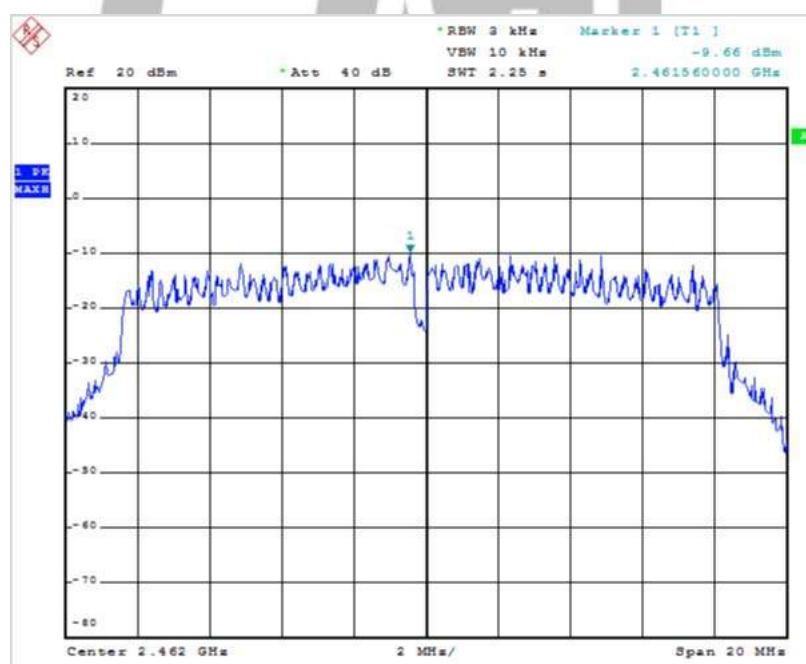
POWER SPECTRAL DENSITY (IEEE 802.11g MODE CH Low)



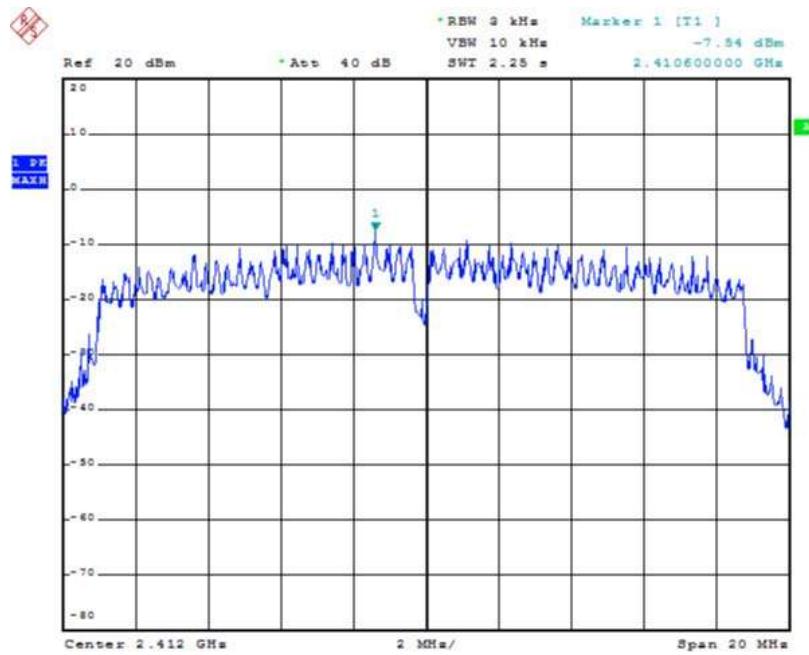
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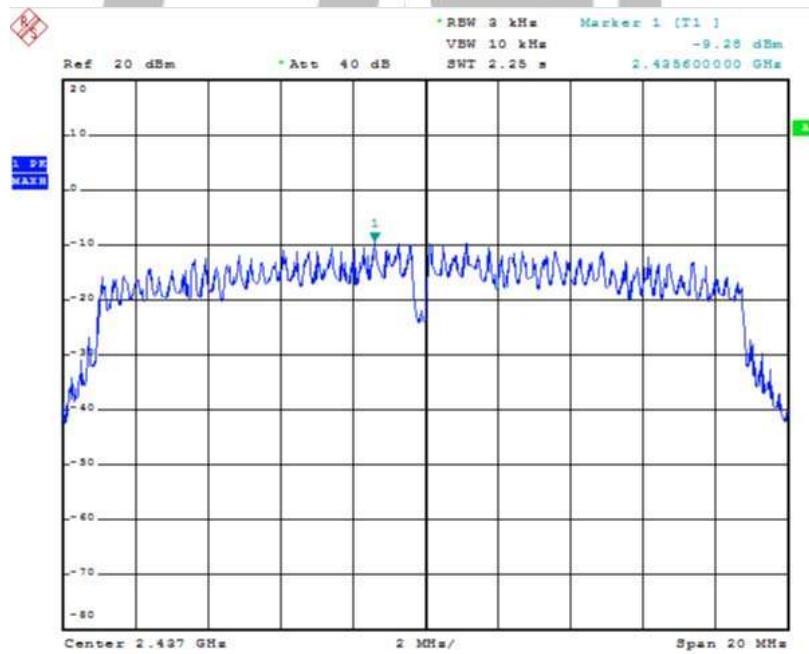
POWER SPECTRAL DENSITY (IEEE 802.11g MODE CH High)



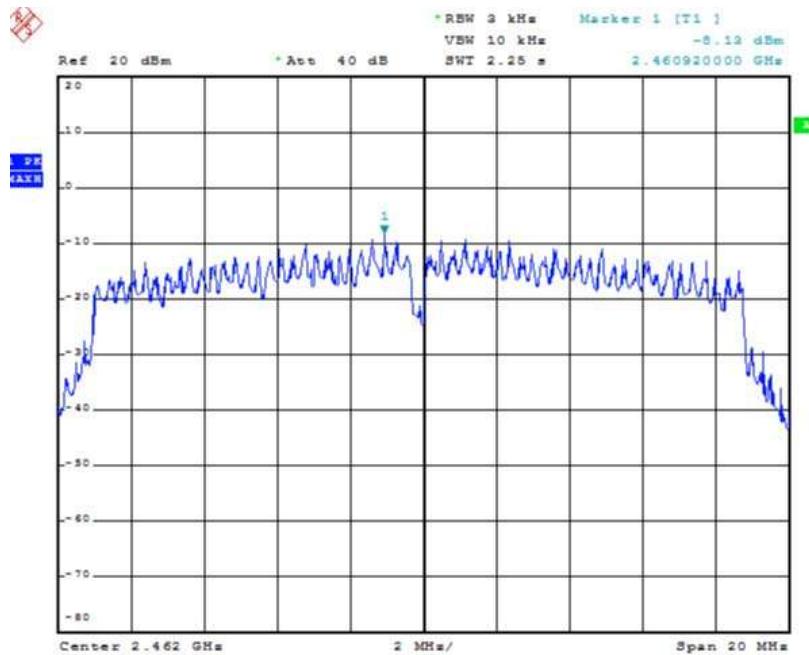
POWER SPECTRAL DENSITY (IEEE 802.11n HT20 MODE CH Low)



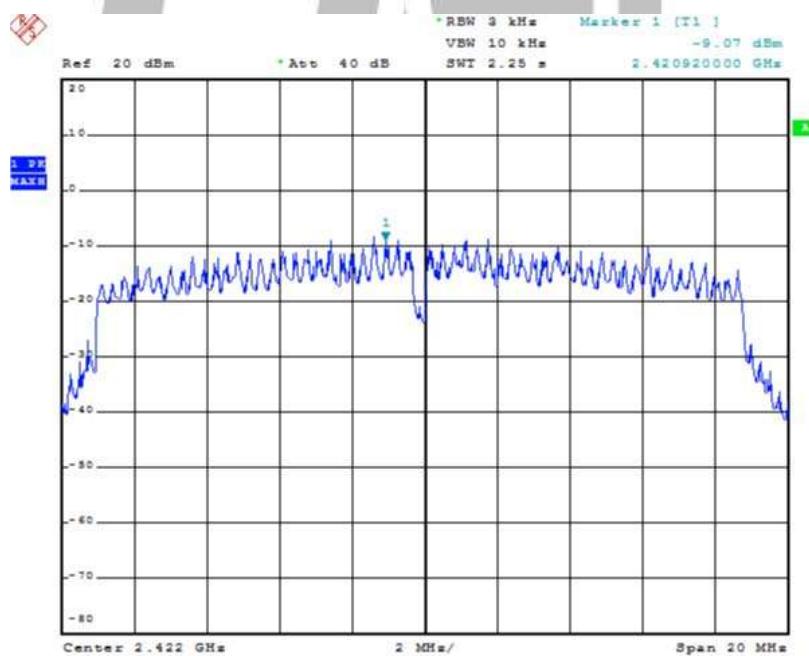
POWER SPECTRAL DENSITY (IEEE 802.11n HT20 MODE CH Mid)



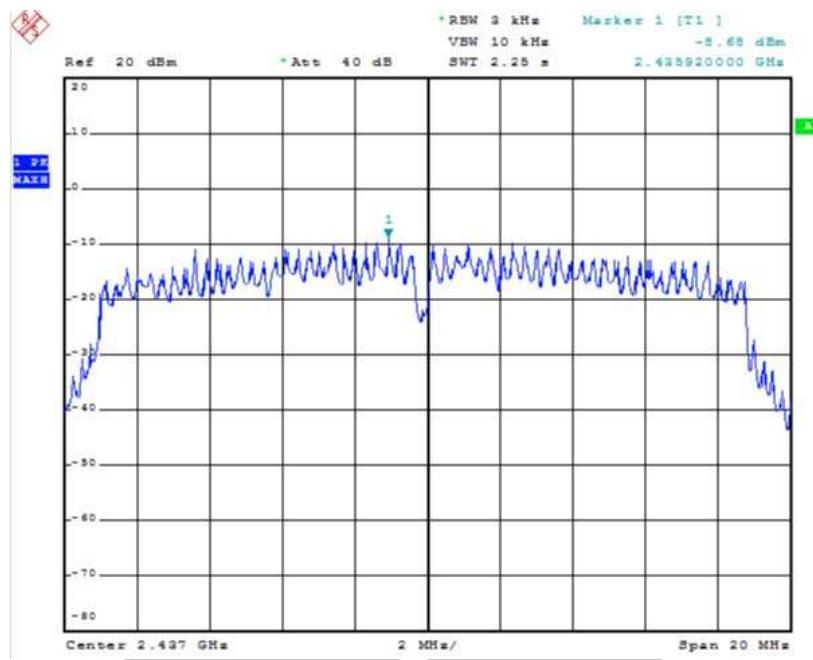
POWER SPECTRAL DENSITY (IEEE 802.11n HT20 MODE CH High)



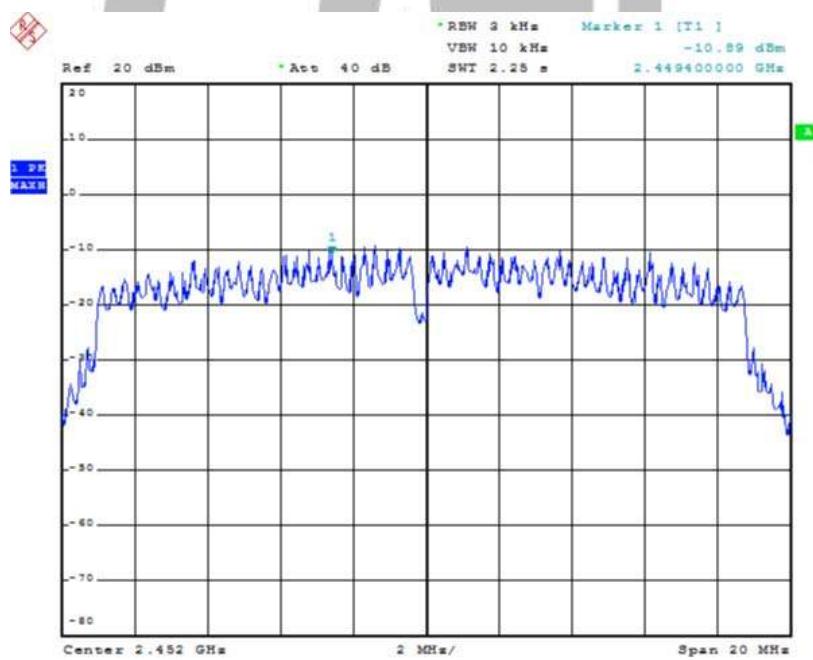
POWER SPECTRAL DENSITY (IEEE 802.11n HT40 MODE CH Low)



POWER SPECTRAL DENSITY (IEEE 802.11n HT40 MODE CH Mid)



POWER SPECTRAL DENSITY (IEEE 802.11n HT40 MODE CH High)



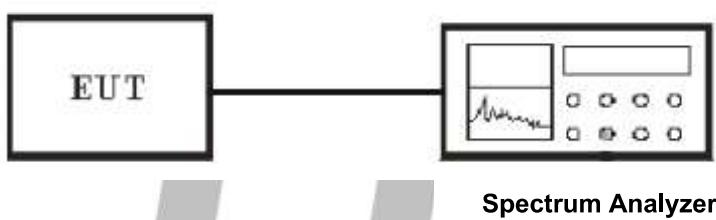
7. Test of 6dB Bandwidth

7.1 Applicable standard

Refer to FCC §15.247 (a) (2) and IC RSS-247 Issue2 Clause 5.2 (1), IC RSS-GEN Clause 6.6 KDB558074 D01 V04 Section 8.2 Option 2

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

7.2 EUT Setup



7.3 Test Equipment List and Details

See section 2.7.

7.4 Test Procedure

The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. The transmitter output was connected to a spectrum analyzer and the parameter was set as below:

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.5 Test Result

Temperature (°C) : 22~23	EUT: Wireless Router
Humidity (%RH) : 50~54	M/N: ARN02304U8
Barometric Pressure (mbar) : 950~1000	Operation Condition: Continuously Tx Mode

CH1

IEEE 802.11b mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	9.07	500	PASS
Middle	2437	9.68	500	PASS
High	2462	9.28	500	PASS

IEEE 802.11g mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	15.00	500	PASS
Middle	2437	15.72	500	PASS
High	2462	15.72	500	PASS

IEEE 802.11n HT20 mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	15.28	500	PASS
Middle	2437	16.04	500	PASS
High	2462	15.44	500	PASS

IEEE 802.11n HT40 mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2422	35.12	500	PASS
Middle	2437	35.04	500	PASS
High	2452	35.04	500	PASS

CH2

IEEE 802.11b mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	9.40	500	PASS
Middle	2437	9.00	500	PASS
High	2462	9.04	500	PASS

IEEE 802.11g mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	15.56	500	PASS
Middle	2437	15.60	500	PASS
High	2462	15.72	500	PASS

IEEE 802.11n HT20 mode

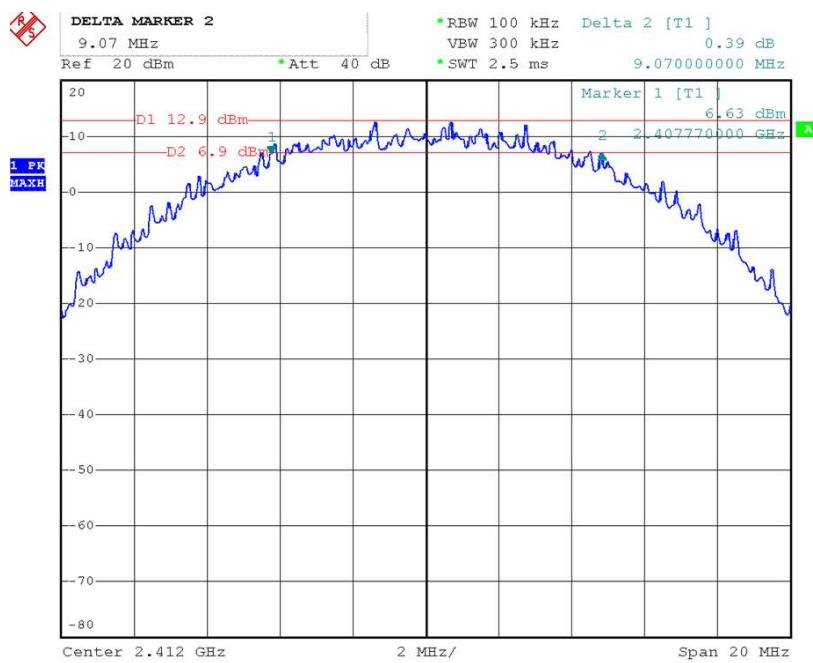
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	15.88	500	PASS
Middle	2437	16.04	500	PASS
High	2462	16.03	500	PASS

IEEE 802.11n HT40 mode

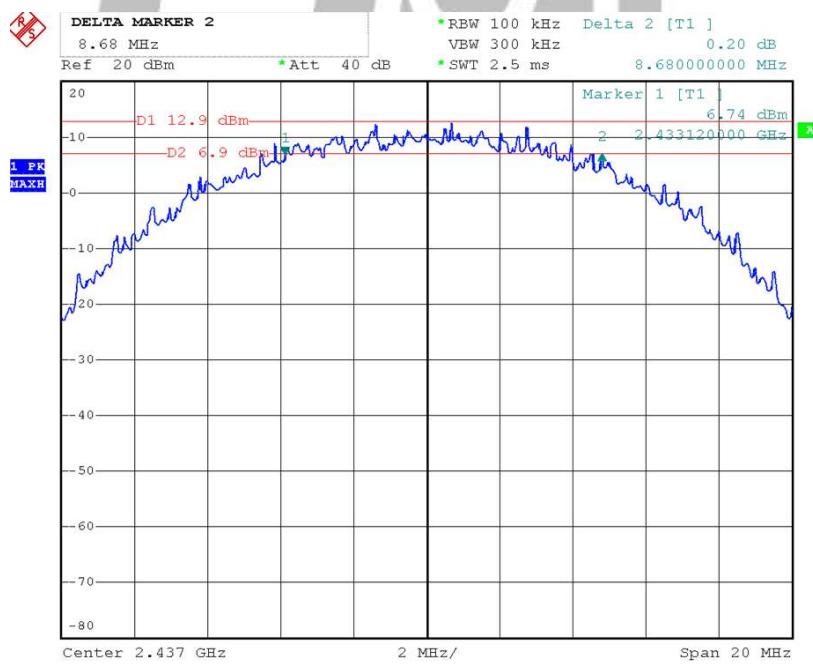
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2422	35.07	500	PASS
Middle	2437	34.91	500	PASS
High	2452	35.04	500	PASS

CH1

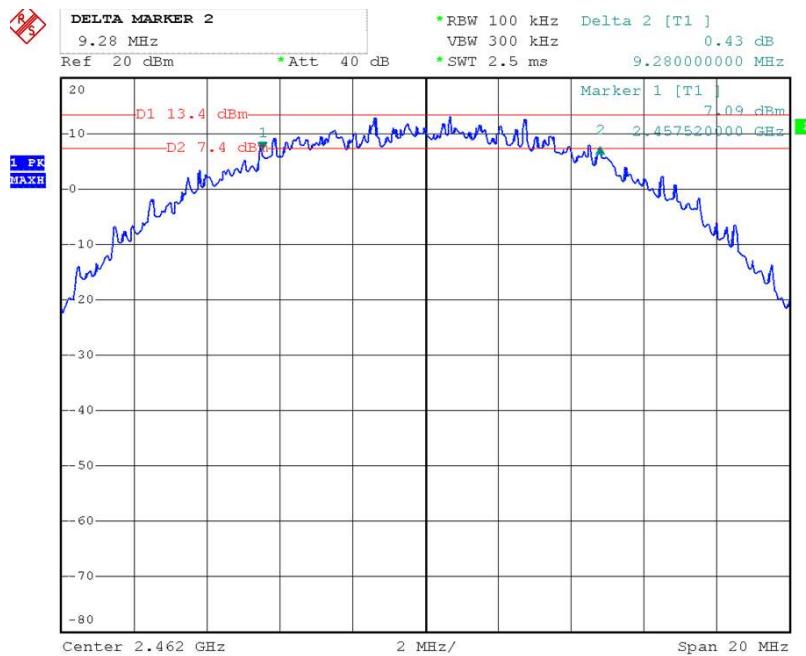
6dB BANDWIDTH (IEEE 802.11b MODE CH Low)



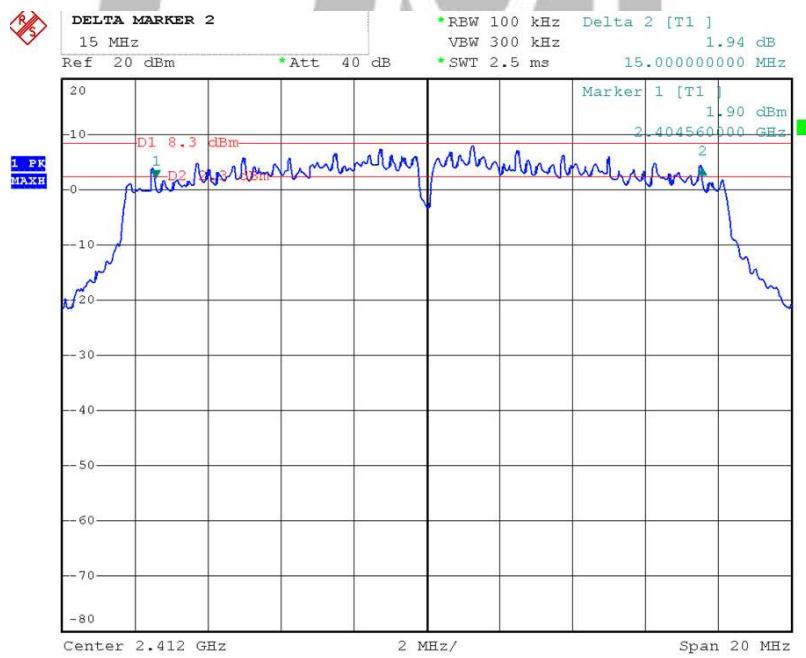
6dB BANDWIDTH (IEEE 802.11b MODE CH Mid)



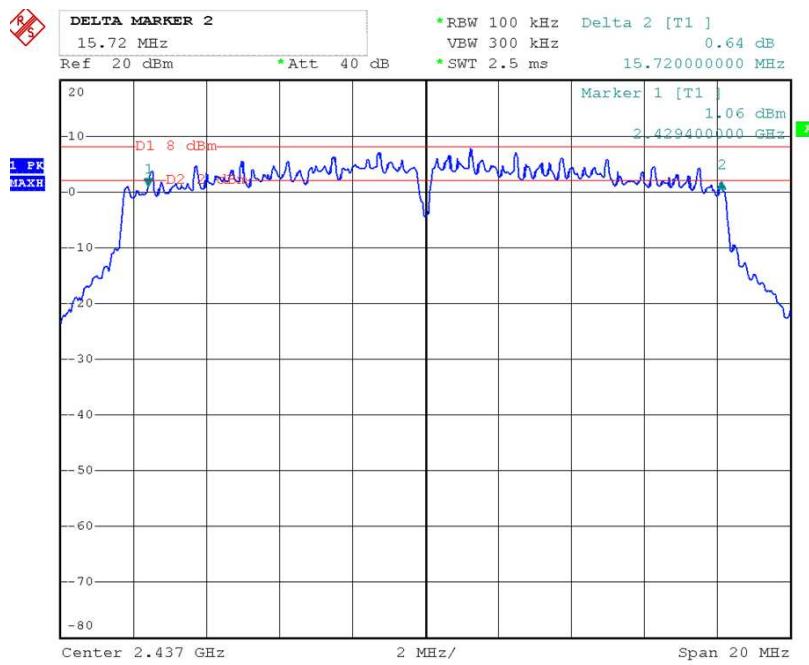
6dB BANDWIDTH (IEEE 802.11b MODE CH High)



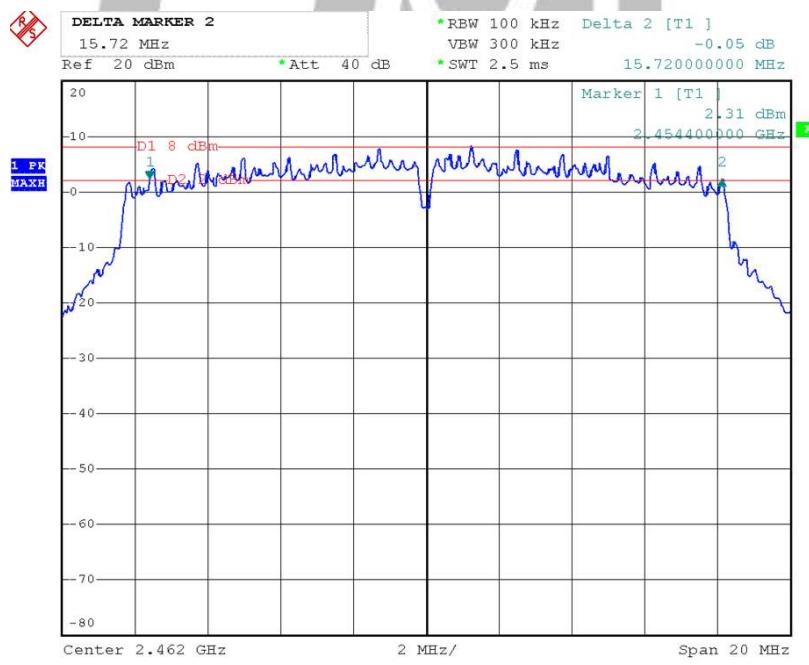
6dB BANDWIDTH (IEEE 802.11g MODE CH Low)



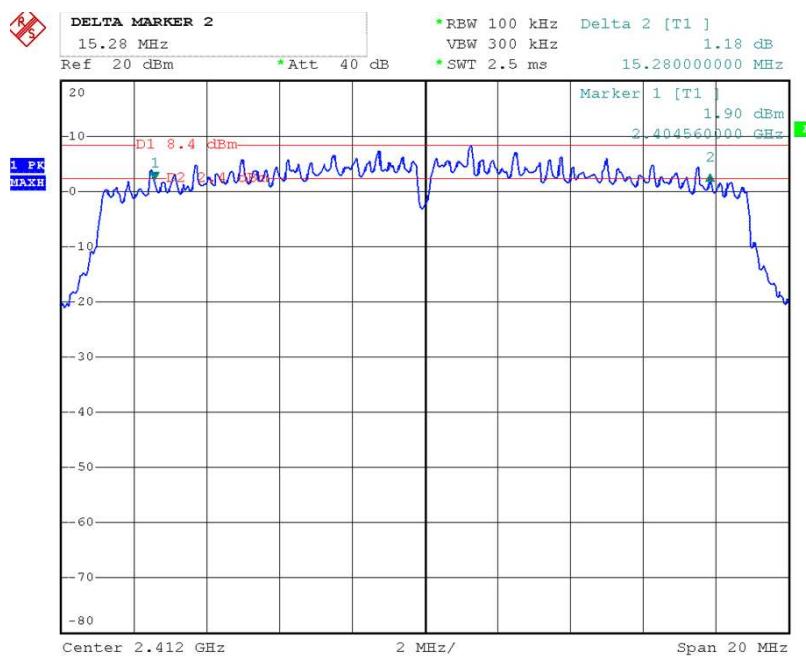
6dB BANDWIDTH (IEEE 802.11g MODE CH Mid)



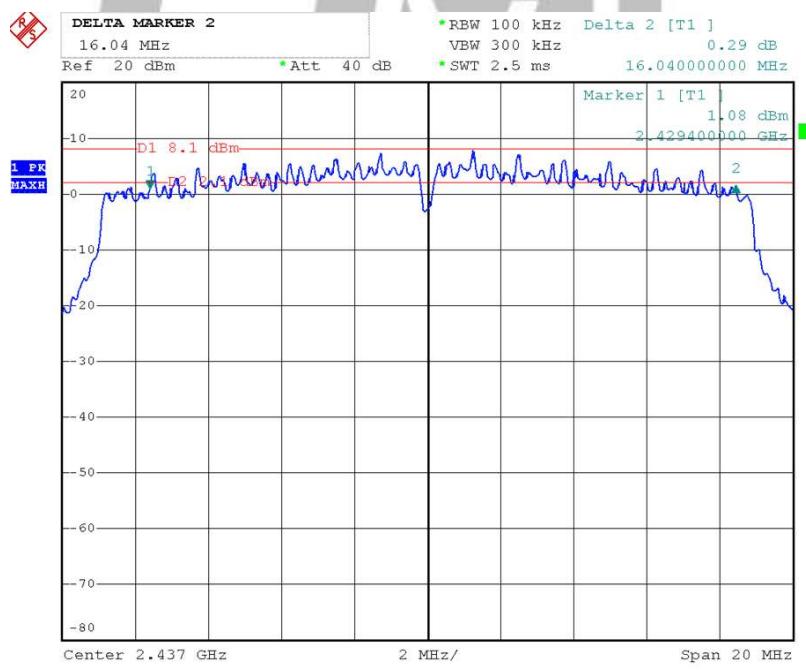
6dB BANDWIDTH (IEEE 802.11g MODE CH High)



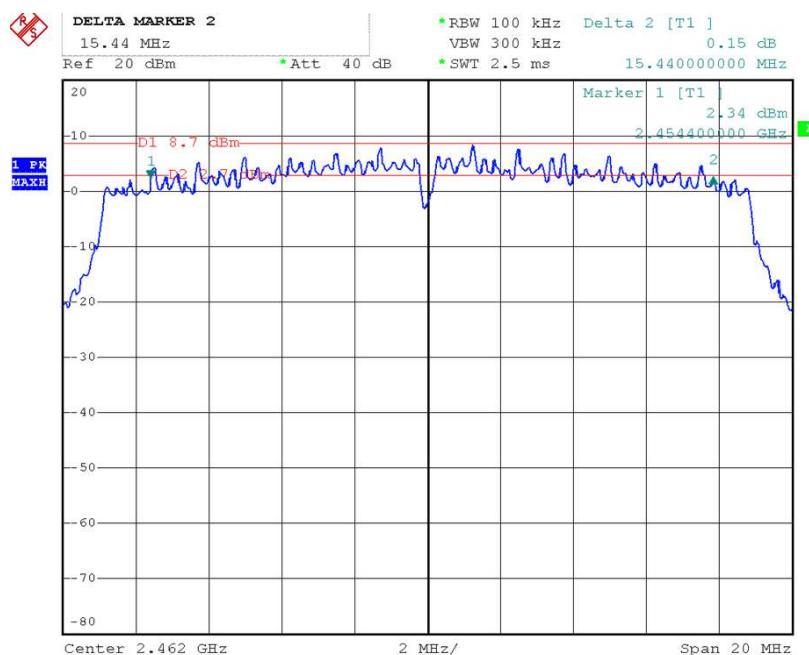
6dB BANDWIDTH (IEEE 802 11n HT20 MODE CH Low)



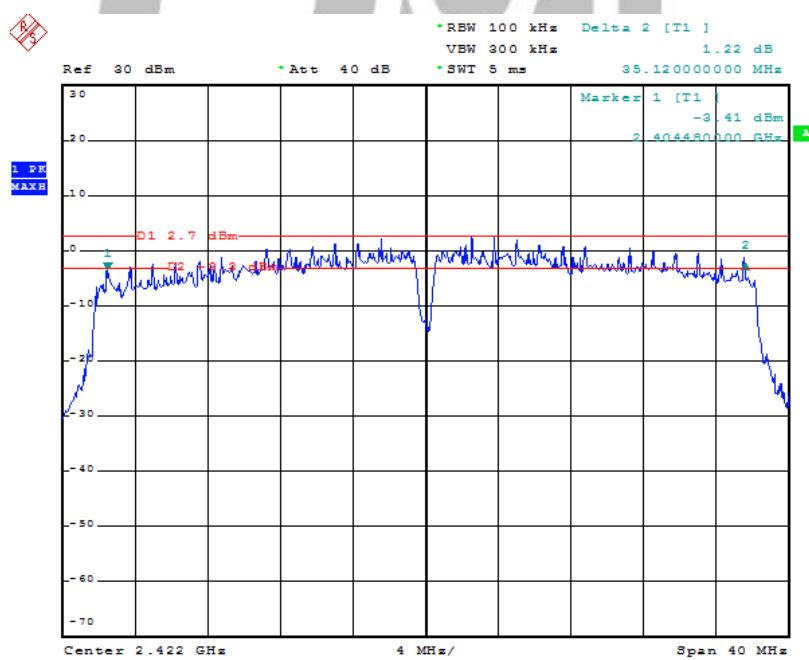
6dB BANDWIDTH (IEEE 802 11n HT20 MODE CH Mid)



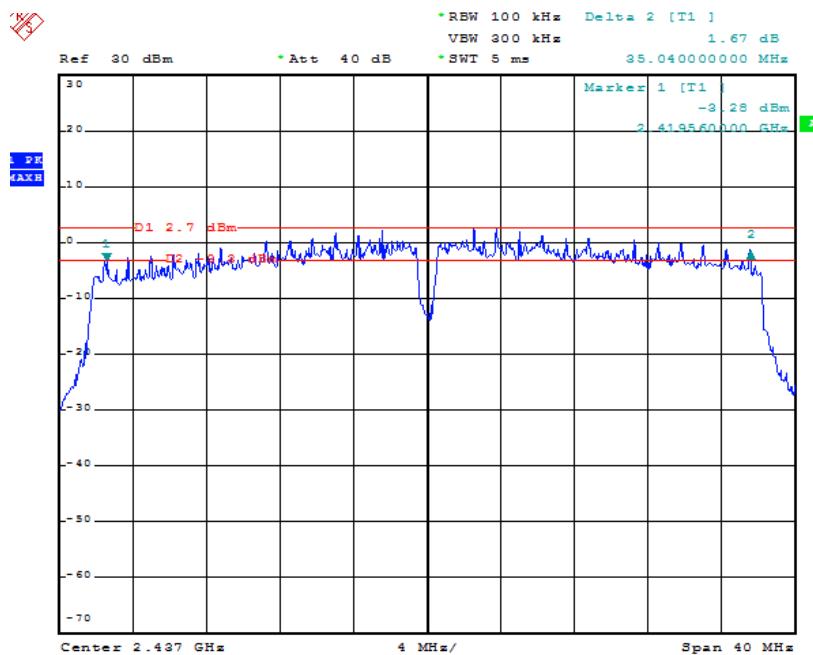
6dB BANDWIDTH (IEEE 802.11n HT20 MODE CH High)



6dB BANDWIDTH (IEEE 802.11n HT40 MODE CH Low)



6dB BANDWIDTH (IEEE 802 11n HT40 MODE CH Mid)



6dB BANDWIDTH (IEEE 802.11 n HT40 MODE CH High)

