

FCC RADIO TEST REPORT

FCC ID: 2AWHY-B0001

Product Name: WUUK Chime
Trade Mark: WUUK
Model Name: B0001
Serial Model: N/A
Report No.: UNIA20041504ER-01

Prepared for

WUUK LABS CORP.

16192 COASTAL HWY, LEWES, DE 19958, United States

Prepared by

Shenzhen United Testing Technology Co., Ltd.

2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China

TEST RESULT CERTIFICATION

Applicant's name.....: WUUK LABS CORP.

Address.....: 16192 COASTAL HWY, LEWES, DE 19958, United States

Manufacturer's Name.....: WUUK LABS CORP.

Address.....: Ste 916, No. 258 GuoXia Rd, Yangpu Dist, Shanghai, China

Product description

Product Name.....: WUUK Chime

Trade Mark.....: WUUK

Model Name: B0001

Standards.....: FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10: 2013

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

Date (s) of performance of tests.....: Apr. 15, 2020 ~ May. 20, 2020

Date of Issue.....: May. 20, 2020

Test Result.....: Pass

Prepared by:

Bob Liao

Bob Liao/Editor

Reviewer:

Kahn Yan
Kahn Yan/Supervisor

Approved & Authorized Signer:

Liuzze
Liuzze/Manager

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1 TEST SUMMARY

TEST PROCEDURES AND RESULTS

ITEM	STANGARD	RESULT
CONDUCTED EMISSION	FCC Part 15.207	COMPLIANT
RADIATED EMISSION	FCC Part 15.209(a)	COMPLIANT
OCCUPIED BANDWIDTH	FCC Part 15.247(a)(2)	COMPLIANT
POWER SPECTRAL DENSITY	FCC Part 15.247(e)	COMPLIANT
PEAK OUTPUT POWER	FCC Part 15.247(b)	COMPLIANT
OUT OF BAND EMISSIONS	FCC Part 15.247(d)	COMPLIANT
CONDUCTED SPURIOUS EMISSION	FCC Part 15.247(d)	COMPLIANT
ANTENNA REQUIREMENT	FCC Part 15.203	COMPLIANT

TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.
 Address : 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

A2LA Certificate Number: 4747.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 21947

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9kHz ~ 150kHz	2.96	
		150kHz ~ 30MHz	2.44	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9kHz ~ 30MHz	2.50	
		30MHz ~ 1000MHz	4.80	
		1000MHz ~ 6000MHz	4.13	

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	WUUK Chime
Trade Mark:	WUUK
Model Name:	B0001
Serial No.:	N/A
Model Difference:	N/A
FCC ID:	2AWHY-B0001
Antenna Type:	Internal Antenna
Antenna Gain:	2dBi
Operation frequency:	802.11b/g/n20: 2412~2462 MHz 802.11n40:2422-2452MHz
Number of Channels:	802.11b/g/n20: 11CH 802.11n40:7CH
Modulation Type:	CCK, OFDM, DBPSK, DAPSK
Battery:	N/A
Power Source:	AC100-240V 50/60Hz

2.2 CARRIER FREQUENCY OF CHANNELS

Channel List for 802.11b/g/n(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	05	2432	07	2442	09	2452
04	2427	06	2437	08	2447		

2.3 TEST MODE

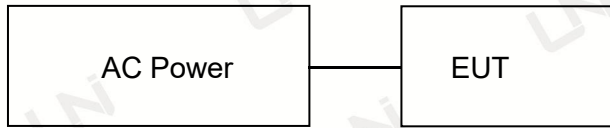
The EUT was programmed to be in continuously transmitting mode.

Channel List for 802.11b/g/n(20MHz)		
Test Channel	EUT Channel	Test Frequency (MHz)
Low	CH01	2412
Middle	CH06	2437
High	CH11	2462

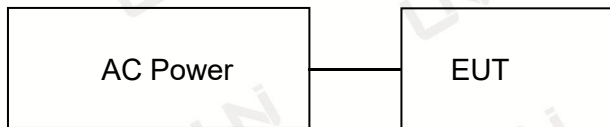
Channel List for 802.11n(40MHz)		
Test Channel	EUT Channel	Test Frequency (MHz)
Low	CH03	2422
Middle	CH06	2437
High	CH09	2452

2.4 TEST SETUP

Operation of EUT during Conducted testing:



Operation of EUT during Radiation and Above1GHz Radiation testing:



2.5 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note

Item	Shielded Type	Ferrite Core	Length	Note

Note:

1. The support equipment was authorized by Declaration of Confirmation.
2. For detachable type I/O cable should be specified the length in cm in 『Length』 column.
3. “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.6 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
Conduction Emissions Measurement					
1	Conducted Emission Test Software	EZ-EMC	Ver.CCS-3A1-CE	N/A	N/A
2	AMN	Schwarzbeck	NNLK8121	8121370	2020.10.15
3	AMN	ETS	3810/2	00020199	2020.10.15
4	AAN	TESEQ	T8-Cat6	38888	2020.10.15
5	Pulse Limiter	CYBRTEK	EM5010	E115010056	2020.05.26
6	EMI Test Receiver	Rohde&Schwarz	ESCI	101210	2020.10.15
Radiated Emissions Measurement					
1	Radiated Emission Test Software	EZ-EMC	Ver.CCS-03A1	N/A	N/A
2	Horn Antenna	Sunol	DRH-118	A101415	2020.10.08
3	Broadband Hybrid Antenna	Sunol	JB1	A090215	2020.11.15
4	PREAMP	HP	8449B	3008A00160	2020.10.21
5	PREAMP	HP	8447D	2944A07999	2021.05.26
6	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2020.10.15
7	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2020.10.15
8	Signal Generator	Agilent	E4421B	MY4335105	2020.10.15
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2020.10.15
10	MXA Signal Analyzer	Keysight	N9020A	MY51110104	2020.10.15
11	RF Power sensor	DARE	RPR3006W	15I00041SNO88	2021.06.09
12	RF Power sensor	DARE	RPR3006W	15I00041SNO89	2021.06.09
13	RF power divider	Anritsu	K241B	992289	2020.10.28
14	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2020.11.19
15	Active Loop Antenna	Com-Power	AL-130R	10160009	2021.05.28
16	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2021.05.28
17	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2021.05.28
18	Horn Antenna	A-INFOMW	LB-180400-KF	J211060660	2020.10.23
19	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2021.05.28
20	Signal Generator	Agilent	N5183A	MY47420153	2021.05.28
21	Spectrum Analyzer	Rohde&Schwarz	FSP 40	100501	2021.05.28
22	Power Meter	KEYSIGHT	N1911A	MY50520168	2021.05.28
23	Frequency Meter	VICTOR	VC2000	997406086	2021.05.28
24	DC Power Source	HYELEC	HY5020E	055161818	2021.05.28

3 CONDUCTED EMISSION

3.1 TEST LIMIT

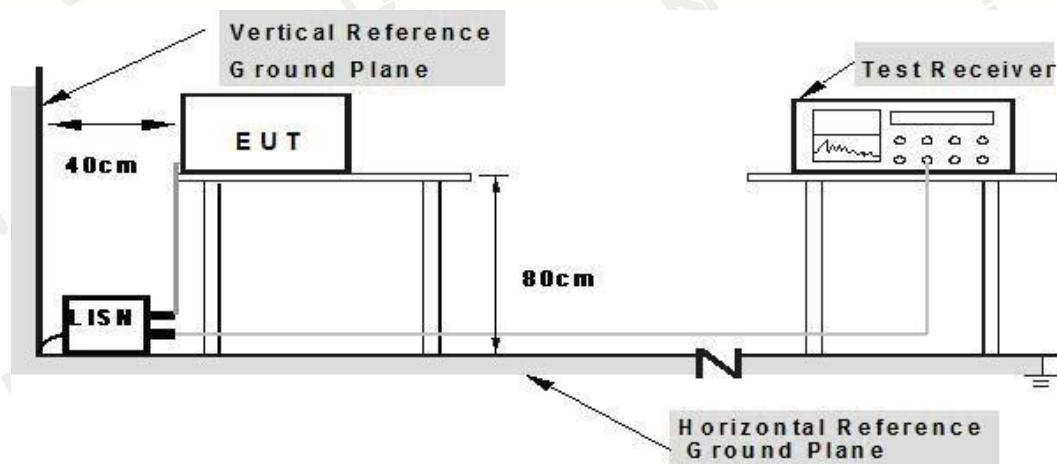
For unintentional device, according to § 15.207(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15~0.50	79	66	66~56*	56~46*
0.50~5.00	73	60	56	46
5.00~30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency.

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 TEST SETUP



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

3.3 TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

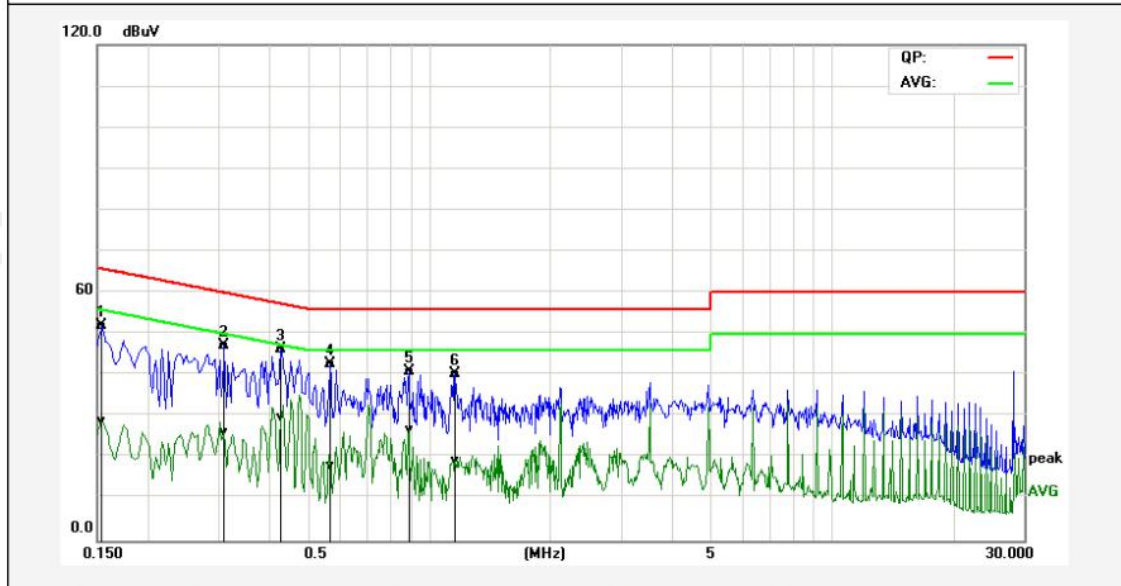
3.4 TEST RESULT

PASS

Remark:

1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported.
2. This prototype does not use MIMO technology. The prototype is a dual antenna product, #1 is the left antenna and #2 is the right antenna. All modes are tested on low, medium and high channels, and only the worst result of 802.11b low channel left antenna #1 is reported.

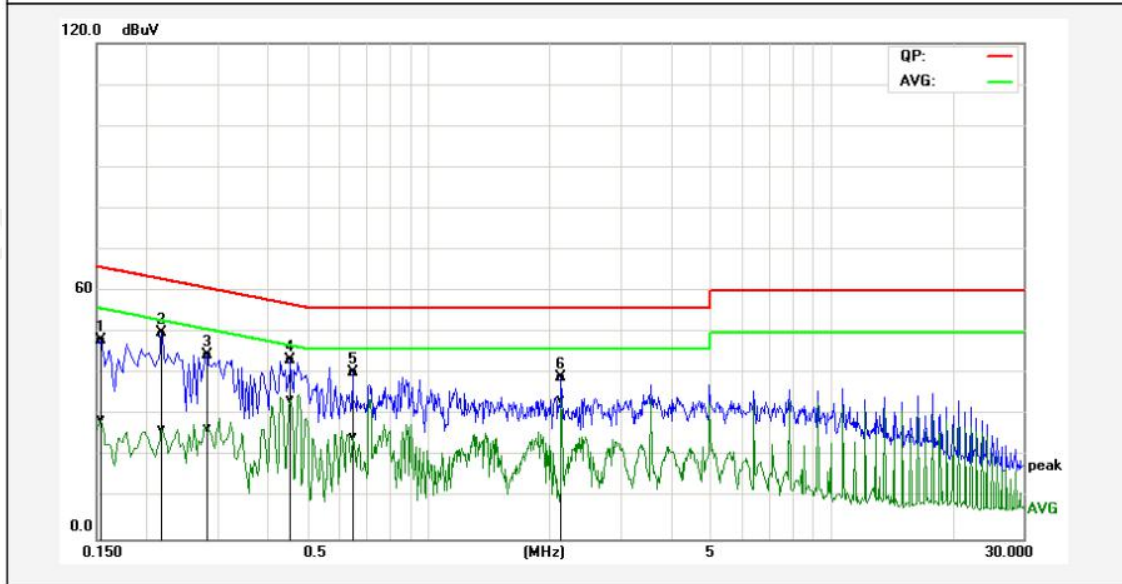
Temperature:	24°C	Relative Humidity:	48%
Test Date:	Apr. 28, 2020	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Line
Test Mode:	Transmitting mode of 802.11b 2412MHz		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1539	42.57	19.50	9.54	52.11	29.04	65.78	55.79	-13.67	-26.75	Pass
2P	0.3100	37.67	16.58	9.68	47.35	26.26	59.97	49.97	-12.62	-23.71	Pass
3*	0.4300	36.63	20.01	9.70	46.33	29.71	57.25	47.25	-10.92	-17.54	Pass
4P	0.5700	33.16	8.36	9.69	42.85	18.05	56.00	46.00	-13.15	-27.95	Pass
5P	0.8900	31.34	17.00	9.74	41.08	26.74	56.00	46.00	-14.92	-19.26	Pass
6P	1.1620	30.67	9.60	9.74	40.41	19.34	56.00	46.00	-15.59	-26.66	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

Temperature:	24°C	Relative Humidity:	48%
Test Date:	Apr. 28, 2020	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Neutral
Test Mode:	Transmitting mode of 802.11b 2412MHz		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1540	38.76	19.34	9.54	48.30	28.88	65.78	55.78	-17.48	-26.90	Pass
2P	0.2180	40.15	16.78	9.65	49.80	26.43	62.89	52.89	-13.09	-26.46	Pass
3P	0.2820	34.83	17.26	9.67	44.50	26.93	60.76	50.76	-16.26	-23.83	Pass
4P	0.4540	33.68	24.10	9.69	43.37	33.79	56.80	46.80	-13.43	-13.01	Pass
5P	0.6500	30.58	14.92	9.70	40.28	24.62	56.00	46.00	-15.72	-21.38	Pass
6*	2.1420	29.24	24.08	9.80	39.04	33.88	56.00	46.00	-16.96	-12.12	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

4 RADIATED EMISSION

4.1 TEST LIMIT

For unintentional device, according to §15.209(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F (kHz)	-	Quasi-peak	300
0.490MHz-1.705MHz	24000/F (kHz)	-	Quasi-peak	30
1.705MHz-30MHz	30	-	Quasi-peak	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3
		74.0	Peak	3

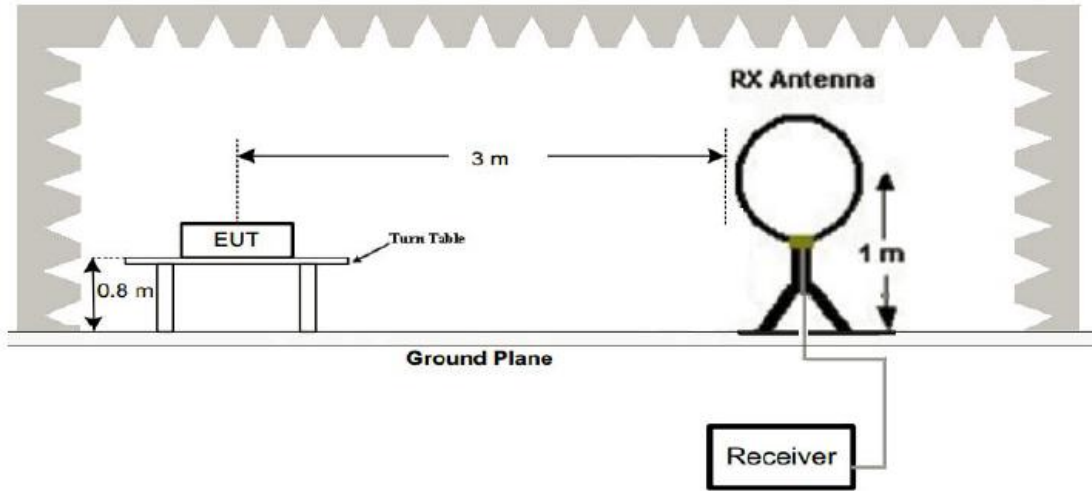
Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	$20\log(2400/F(KHz))+40\log(300/3)$	3
0.490-1.705	$20\log(24000/F(KHz))+40\log(30/3)$	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

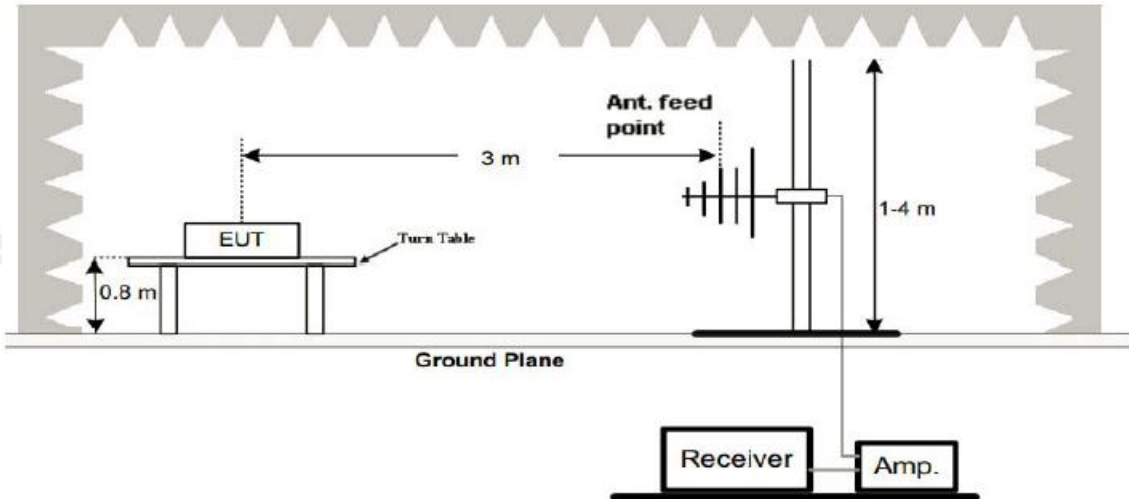
For intentional device, according to §15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 TEST SETUP

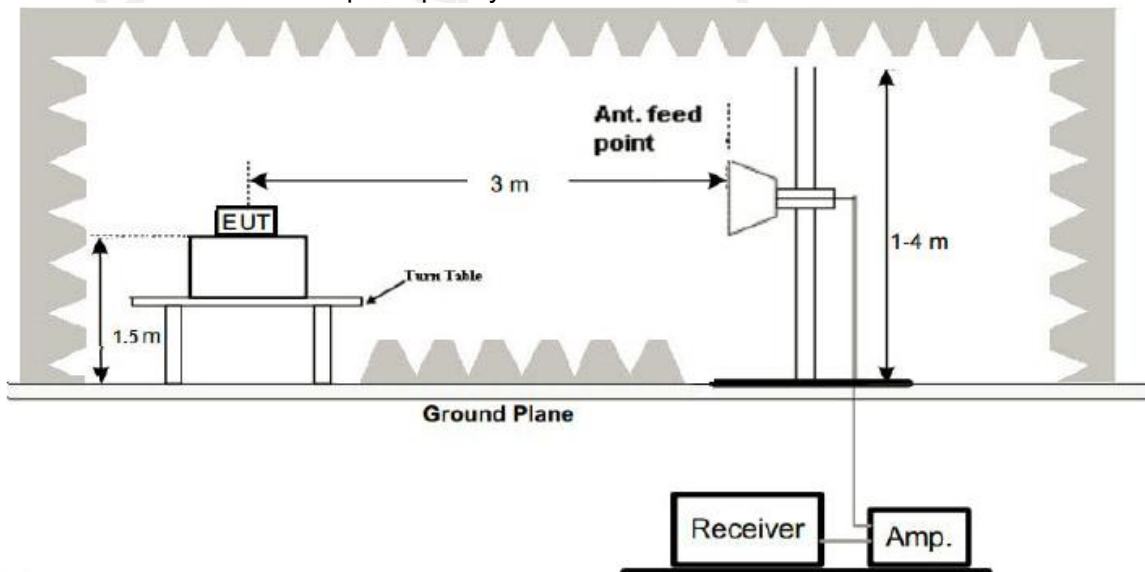
1. Radiated Emission Test-Up Frequency Below 30MHz



2. Radiated Emission Test-Up Frequency 30MHz~1GHz



3. Radiated Emission Test-Up Frequency Above 1GHz



4.3 TEST PROCEDURE

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9kHz to 25GHz per FCC PART 15.33(a).

Note: For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 TEST RESULT

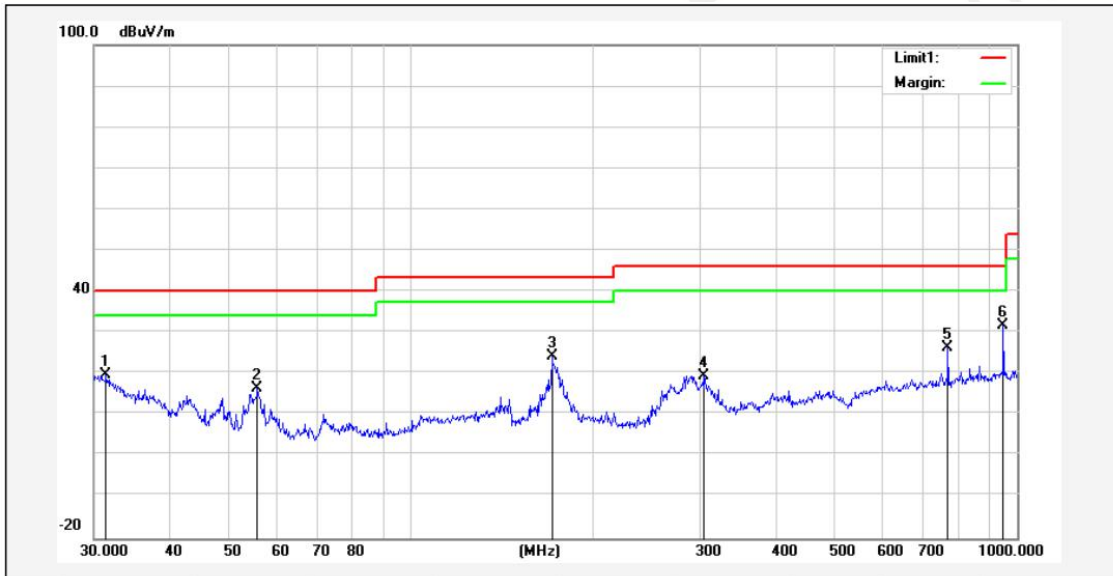
PASS

Remark:

1. This prototype does not use MIMO technology. The prototype is a dual antenna product, #1 is the left antenna and #2 is the right antenna. All modes are tested on low, medium and high channels, and only the worst result of 802.11b low channel left antenna #1 is reported.
2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, and test data recorded in this report.

Below 1GHz Test Results:

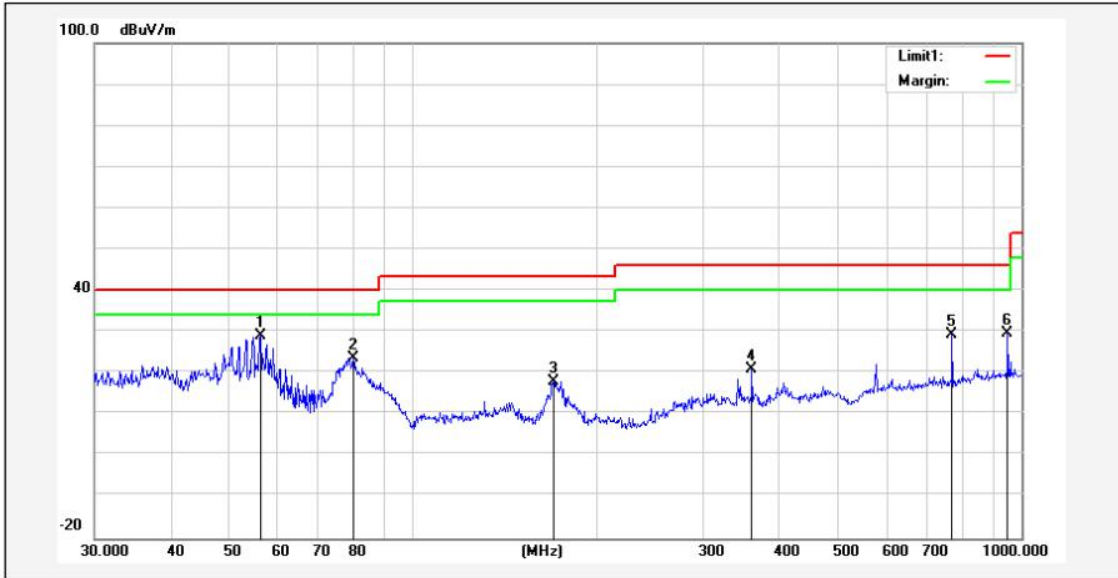
Temperature:	24°C	Relative Humidity:	48%
Test Date:	Apr. 28, 2020	Pressure:	1010hPa
Test Voltage:	AC 120V 60Hz	Phase:	Horizontal
Test Mode:	Transmitting mode of 802.11b 2412MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	31.3992	28.07	-8.24	19.83	40.00	-20.17	210	100	peak
2	55.8047	37.87	-21.28	16.59	40.00	-23.41	180	100	peak
3	170.7926	41.65	-17.35	24.30	43.50	-19.20	30	100	peak
4	304.6100	34.62	-15.02	19.60	46.00	-26.40	240	100	peak
5	768.7482	34.63	-8.32	26.31	46.00	-19.69	60	100	peak
6*	948.7610	37.89	-6.15	31.74	46.00	-14.26	300	100	peak

Remark: Absolute Level = Reading Level + Factor, Margin = Absolute Level – Limit
 Factor = Ant. Factor + Cable Loss – Pre-amplifier

Temperature:	24°C	Relative Humidity:	48%
Test Date:	Apr. 28, 2020	Pressure:	1010hPa
Test Voltage:	AC 120V 60Hz	Phase:	Vertical
Test Mode:	Transmitting mode of 802.11b 2412MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	56.1974	50.42	-21.32	29.10	40.00	-10.90	150	100	peak
2	79.8003	45.13	-21.59	23.54	40.00	-16.46	120	100	peak
3	170.1948	35.23	-17.28	17.95	43.50	-25.55	270	100	peak
4	360.4477	35.03	-14.05	20.98	46.00	-25.02	30	100	peak
5	768.7482	37.58	-8.32	29.26	46.00	-16.74	300	100	peak
6	948.7610	35.91	-6.15	29.76	46.00	-16.24	60	100	peak

Remark: Absolute Level = Reading Level + Factor, Margin = Absolute Level – Limit
 Factor = Ant. Factor + Cable Loss – Pre-amplifier

Remark:

1. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, emission from 9kHz to 30MHz are more than 20dB below the limit, so it was not recorded in this report.
2. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
3. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10kHz.

Above 1 GHz Test Results:

CH01 of 802.11b Mode (2412MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	60.78	-3.64	57.14	74	-16.86	PK
4824	51.12	-3.64	47.48	54	-6.52	AV
7236	58.76	-0.95	57.81	74	-16.19	PK
7236	47.24	-0.95	46.29	54	-7.71	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.98	-3.64	58.34	74	-15.66	PK
4824	50.03	-3.64	46.39	54	-7.61	AV
7236	57.89	-0.95	56.94	74	-17.06	PK
7236	46.69	-0.95	45.74	54	-8.26	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH06 of 802.11b Mode (2437MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	61.98	-3.51	58.47	74	-15.53	PK
4874	51.23	-3.51	47.72	54	-6.28	AV
7311	58.03	-0.82	57.21	74	-16.79	PK
7311	47.12	-0.82	46.30	54	-7.70	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	61.39	-3.51	57.88	74	-16.12	PK
4874	50.36	-3.51	46.85	54	-7.15	AV
7311	58.62	-0.82	57.80	74	-16.20	PK
7311	47.13	-0.82	46.31	54	-7.69	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH11 of 802.11b Mode (2462MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	62.89	-3.43	59.46	74	-14.54	PK
4924	50.68	-3.43	47.25	54	-6.75	AV
7386	58.56	-0.75	57.81	74	-16.19	PK
7386	47.52	-0.75	46.77	54	-7.23	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	62.71	-3.43	59.28	74	-14.72	PK
4924	50.95	-3.43	47.52	54	-6.48	AV
7386	58.23	-0.75	57.48	74	-16.52	PK
7386	47.58	-0.75	46.83	54	-7.17	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH01 of 802.11g Mode (2412MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.87	-3.64	58.23	74	-15.77	PK
4824	50.67	-3.64	47.03	54	-6.97	AV
7236	58.65	-0.95	57.7	74	-16.3	PK
7236	47.31	-0.95	46.36	54	-7.64	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.80	-3.64	58.16	74	-15.84	PK
4824	50.69	-3.64	47.05	54	-6.95	AV
7236	57.96	-0.95	57.01	74	-16.99	PK
7236	47.68	-0.95	46.73	54	-7.27	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH06 of 802.11g Mode (2437MHz):

Horizontal:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4874	62.15	-3.51	58.64	74	-15.36	PK
4874	50.76	-3.51	47.25	54	-6.75	AV
7311	57.86	-0.82	57.04	74	-16.96	PK
7311	47.25	-0.82	46.43	54	-7.57	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4874	61.95	-3.51	58.44	74	-15.56	PK
4874	50.30	-3.51	46.79	54	-7.21	AV
7311	57.82	-0.82	57	74	-17.00	PK
7311	47.18	-0.82	46.36	54	-7.64	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH11 of 802.11g Mode (2462MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	62.35	-3.43	58.92	74	-15.08	PK
4924	50.13	-3.43	46.70	54	-7.30	AV
7386	58.23	-0.75	57.48	74	-16.52	PK
7386	47.56	-0.75	46.81	54	-7.19	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	62.09	-3.43	58.66	74	-15.34	PK
4924	51.07	-3.43	47.64	54	-6.36	AV
7386	58.3	-0.75	57.55	74	-16.45	PK
7386	47.25	-0.75	46.50	54	-7.50	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH01 of 802.11n/H20 Mode (2412MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.87	-3.64	58.23	74	-15.77	PK
4824	50.39	-3.64	46.75	54	-7.25	AV
7236	58.21	-0.95	57.26	74	-16.74	PK
7236	47.5	-0.95	46.55	54	-7.45	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.92	-3.64	58.28	74	-15.72	PK
4824	50.68	-3.64	47.04	54	-6.96	AV
7236	58.32	-0.95	57.37	74	-16.63	PK
7236	47.82	-0.95	46.87	54	-7.13	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH06 of 802.11n/H20 Mode (2437MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	61.98	-3.51	58.47	74	-15.53	PK
4874	50.25	-3.51	46.74	54	-7.26	AV
7311	57.02	-0.82	56.2	74	-17.8	PK
7311	47.12	-0.82	46.30	54	-7.70	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	62.12	-3.51	58.61	74	-15.39	PK
4874	50.16	-3.51	46.65	54	-7.35	AV
7311	57.15	-0.82	56.33	74	-17.67	PK
7311	47.32	-0.82	46.50	54	-7.50	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH11 of 802.11n/H20 Mode (2462MHz):

Horizontal:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4924	62.93	-3.43	59.5	74	-14.5	PK
4924	51.03	-3.43	47.60	54	-6.40	AV
7386	57.06	-0.75	56.31	74	-17.69	PK
7386	47.65	-0.75	46.90	54	-7.10	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4924	62.58	-3.43	59.15	74	-14.85	PK
4924	50.76	-3.43	47.33	54	-6.67	AV
7386	57.98	-0.75	57.23	74	-16.77	PK
7386	47.91	-0.75	47.16	54	-6.84	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH01 of 802.11n/H40 Mode (2422MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844	61.72	-3.64	58.08	74	-15.92	PK
4844	50.41	-3.64	46.77	54	-7.23	AV
7266	58.28	-0.95	57.33	74	-16.67	PK
7266	47.34	-0.95	46.39	54	-7.61	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844	61.94	-3.64	58.30	74	-15.70	PK
4844	50.72	-3.64	47.08	54	-6.92	AV
7266	58.39	-0.95	57.44	74	-16.56	PK
7266	47.76	-0.95	46.81	54	-7.19	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH06 of 802.11n/H40 Mode (2437MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	61.85	-3.51	58.34	74	-15.66	PK
4874	50.29	-3.51	46.78	54	-7.22	AV
7311	57.13	-0.82	56.31	74	-17.69	PK
7311	47.25	-0.82	46.43	54	-7.57	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	62.32	-3.51	58.81	74	-15.19	PK
4874	50.4	-3.51	46.89	54	-7.11	AV
7311	57.24	-0.82	56.42	74	-17.58	PK
7311	47.35	-0.82	46.53	54	-7.47	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH09 of 802.11n/H40 Mode (2452MHz):

Horizontal:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4904	62.98	-3.43	59.55	74	-14.45	PK
4904	51.14	-3.43	47.71	54	-6.29	AV
7356	57.25	-0.75	56.50	74	-17.50	PK
7356	47.87	-0.75	47.12	54	-6.88	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4904	62.63	-3.43	59.20	74	-14.80	PK
4904	51.02	-3.43	48.09	54	-6.41	AV
7356	57.48	-0.75	56.73	74	-17.27	PK
7356	47.59	-0.75	46.84	54	-7.16	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Remark:

1. Measuring frequencies from 1 GHz to the 25 GHz.
2. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
3. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
4. The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
5. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10kHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
6. When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
7. All modes of operation were investigated and the worst-case emissions are reported.

Operation Mode: CH01 of 802.11b Mode (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	57.21	-5.81	51.40	74	-22.60	PK
2310	/	-5.81	/	54	/	AV
2390	63.98	-5.84	58.14	74	-15.86	PK
2390	50.34	-5.84	44.50	54	-9.50	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	57.19	-5.81	51.38	74	-22.62	PK
2310	/	-5.81	/	54	/	AV
2390	64.52	-5.84	58.68	74	-15.32	PK
2390	50.21	-5.84	44.37	54	-9.63	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Operation Mode: CH11 of 802.11b Mode (2462MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	56.58	-5.65	50.93	74	-23.07	PK
2483.5	/	-5.65	/	54	/	AV
2500	55.67	-5.72	49.95	74	-24.05	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	56.32	-5.65	50.67	74	-23.33	PK
2483.5	/	-5.65	/	54	/	AV
2500	55.37	-5.72	49.65	74	-24.35	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Operation Mode: CH01 of 802.11g Mode (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	55.78	-5.81	49.97	74	-24.03	PK
2310	/	-5.81	/	54	/	AV
2390	65.56	-5.84	59.72	74	-14.28	PK
2390	48.03	-5.84	42.19	54	-11.81	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	55.87	-5.81	50.06	74	-23.94	PK
2310	/	-5.81	/	54	/	AV
2390	66.32	-5.84	60.48	74	-13.52	PK
2390	47.52	-5.84	41.68	54	-12.32	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Operation Mode: CH11 of 802.11g Mode (2462MHz)

Horizontal:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2483.5	56.32	-5.65	50.67	74	-23.33	PK
2483.5	/	-5.65	/	54	/	AV
2500	55.21	-5.72	49.49	74	-24.51	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2483.5	57.03	-5.65	51.38	74	-22.62	PK
2483.5	/	-5.65	/	54	/	AV
2500	55.86	-5.72	50.14	74	-23.86	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Operation Mode: CH01 of 802.11n/H20 Mode (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	56.23	-5.81	50.42	74	-23.58	PK
2310	/	-5.81	/	54	/	AV
2390	64.28	-5.84	58.44	74	-15.56	PK
2390	47.92	-5.84	42.08	54	-11.92	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	56.38	-5.81	50.57	74	-23.43	PK
2310	/	-5.81	/	54	/	AV
2390	65.87	-5.84	60.03	74	-13.97	PK
2390	47.99	-5.84	42.15	54	-11.85	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Operation Mode: CH11 of 802.11n/H20 Mode (2462MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.12	-5.65	51.47	74	-22.53	PK
2483.5	/	-5.65	/	54	/	AV
2500	56.4	-5.72	50.68	74	-23.32	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.24	-5.65	51.59	74	-22.41	PK
2483.5	/	-5.65	/	54	/	AV
2500	56.13	-5.72	50.41	74	-23.59	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Operation Mode: CH01 of 802.11n/H40 Mode (2422MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	56.20	-5.81	50.39	74	-23.61	PK
2310	/	-5.81	/	54	/	AV
2390	64.31	-5.84	58.47	74	-15.53	PK
2390	48.21	-5.84	42.37	54	-11.63	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	56.92	-5.81	51.11	74	-22.89	PK
2310	/	-5.81	/	54	/	AV
2390	66.35	-5.84	60.51	74	-13.49	PK
2390	48.53	-5.84	42.69	54	-11.31	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Operation Mode: CH11 of 802.11n/H40 Mode (2452MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.21	-5.65	51.56	74	-22.44	PK
2483.5	/	-5.65	/	54	/	AV
2500	56.09	-5.72	50.37	74	-23.63	PK
2500	/	-5.72	/	54	/	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.42	-5.65	51.77	74	-22.23	PK
2483.5	/	-5.65	/	54	/	AV
2500	56.08	-5.72	50.36	74	-23.64	PK
2500	/	-5.72	/	54	/	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

5 OCCUPIED BANDWIDTH

5.1 TEST LIMIT

FCC Part15(15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

5.2 TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.247: RBW=100kHz, VBW=300kHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

5.3 EQUIPMENT USED

Same as Radiated Emission Measurement.

5.4 TEST RESULT

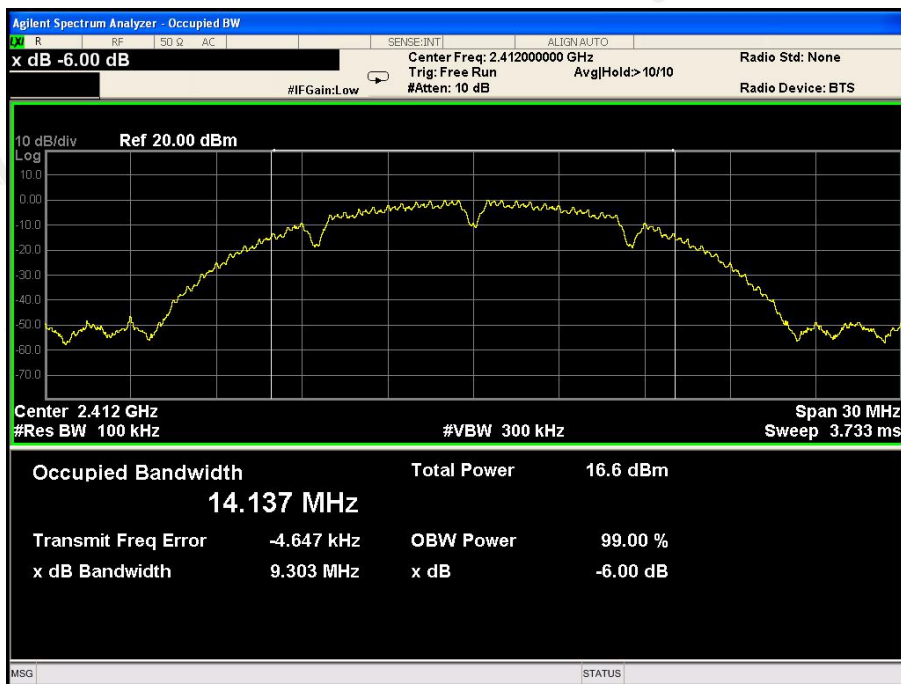
PASS

- Note:1. The sample is a dual antenna product.
 2. The prototype does not use MIMO technology. The prototype is a dual-antenna product, # 1 is the left antenna, # 2 is the right antenna

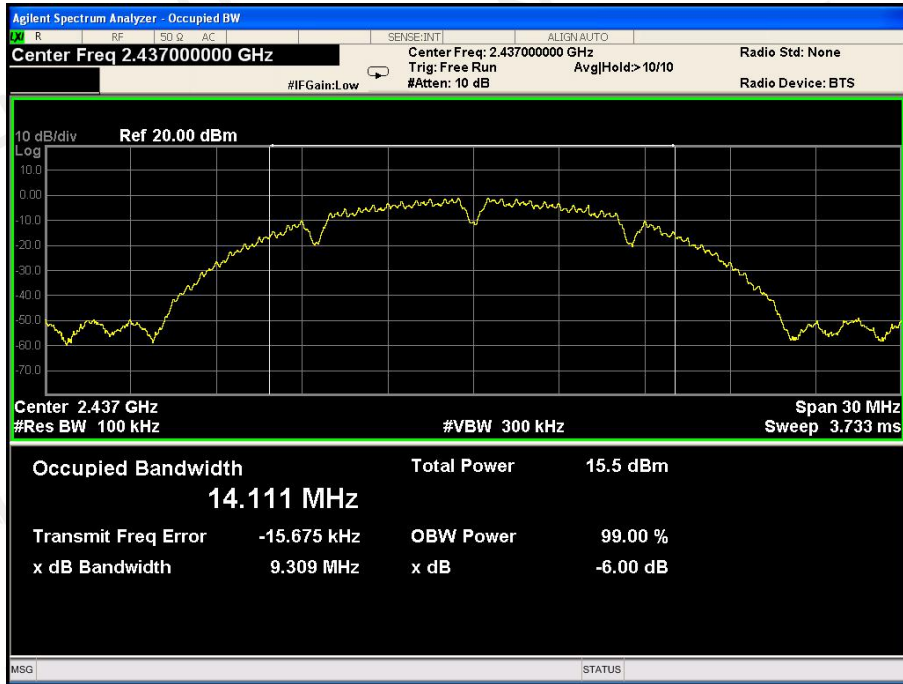
#1

TX 802.11b Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	9.303	>=500	PASS
2437	9.309	>=500	PASS
2462	9.527	>=500	PASS

CH01: 2412MHz



CH06: 2437MHz



CH11: 2462MHz

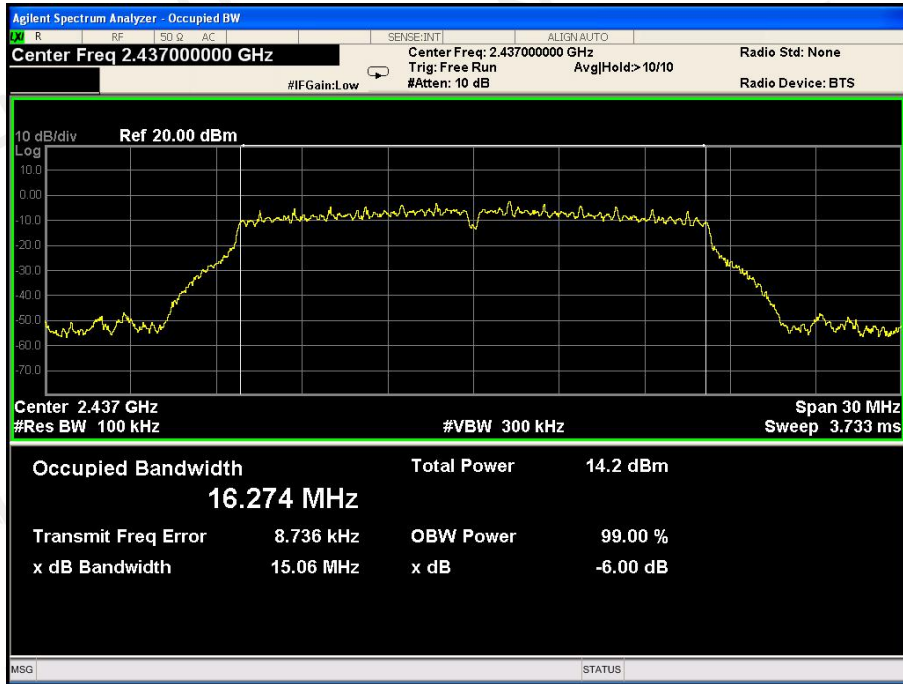


TX 802.11g Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	15.10	>=500	PASS
2437	15.06	>=500	PASS
2462	15.07	>=500	PASS

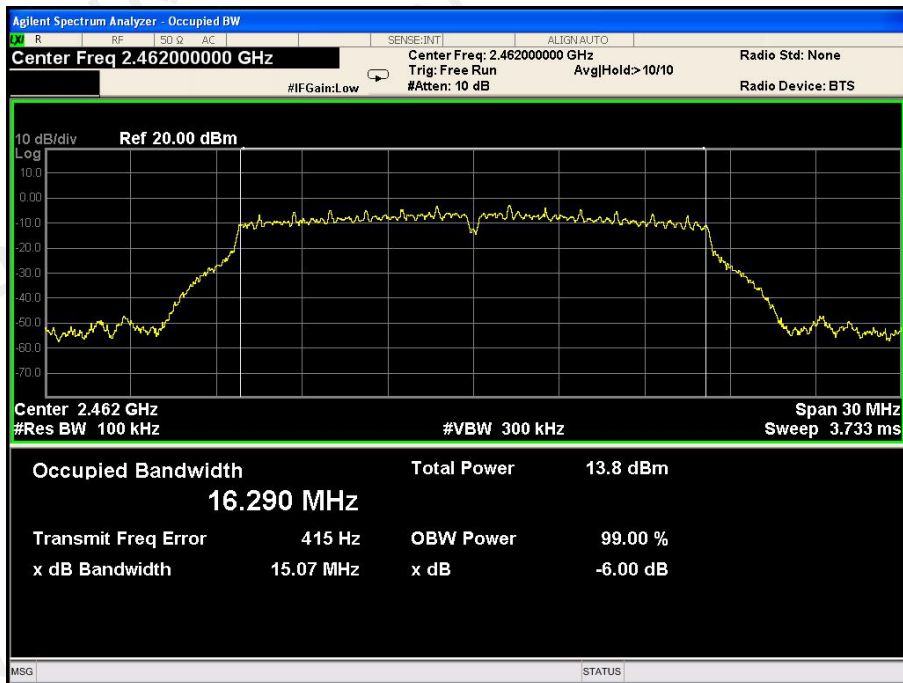
CH01: 2412MHz



CH06: 2437MHz

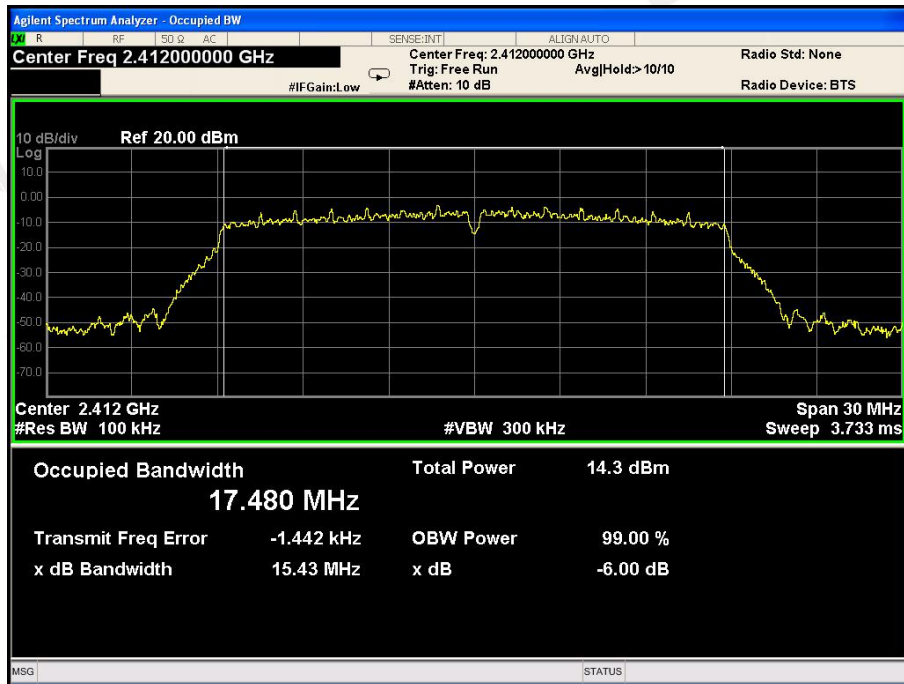


CH11: 2462MHz

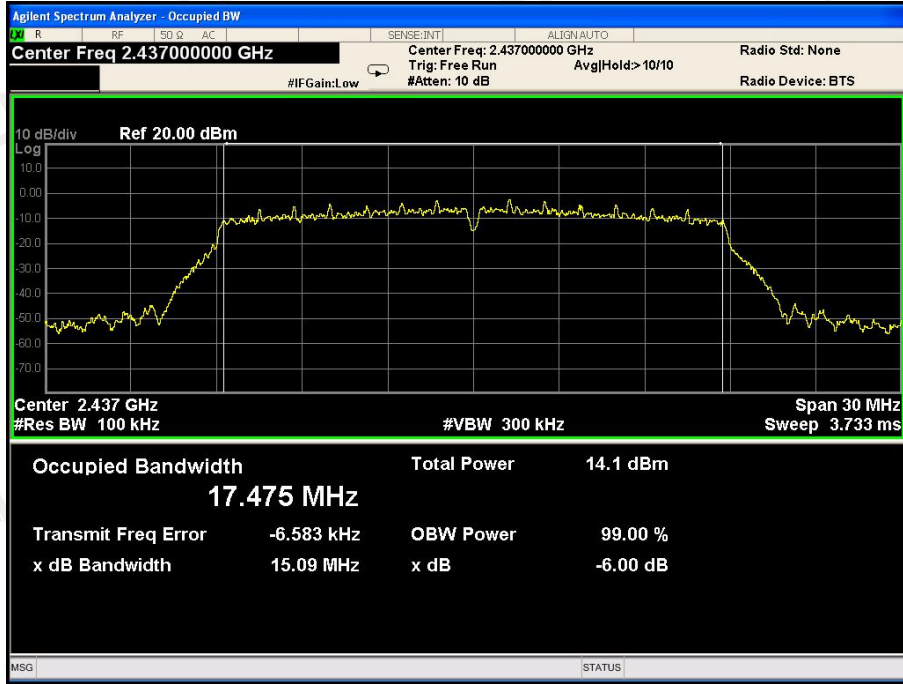


TX 802.11n/HT20 Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	15.43	>=500	PASS
2437	15.09	>=500	PASS
2462	15.09	>=500	PASS

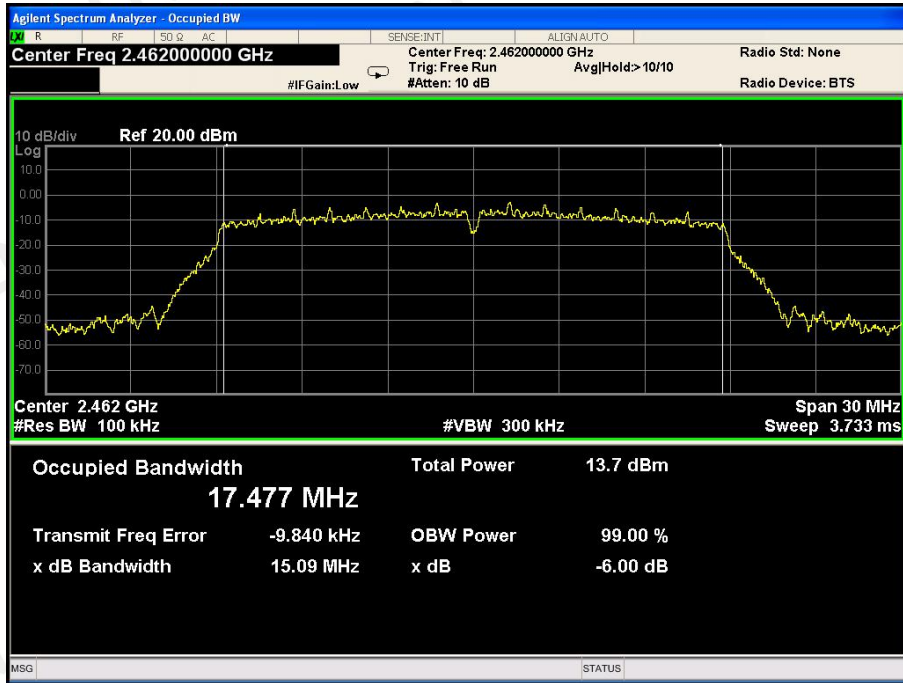
CH01: 2412MHz



CH06: 2437MHz

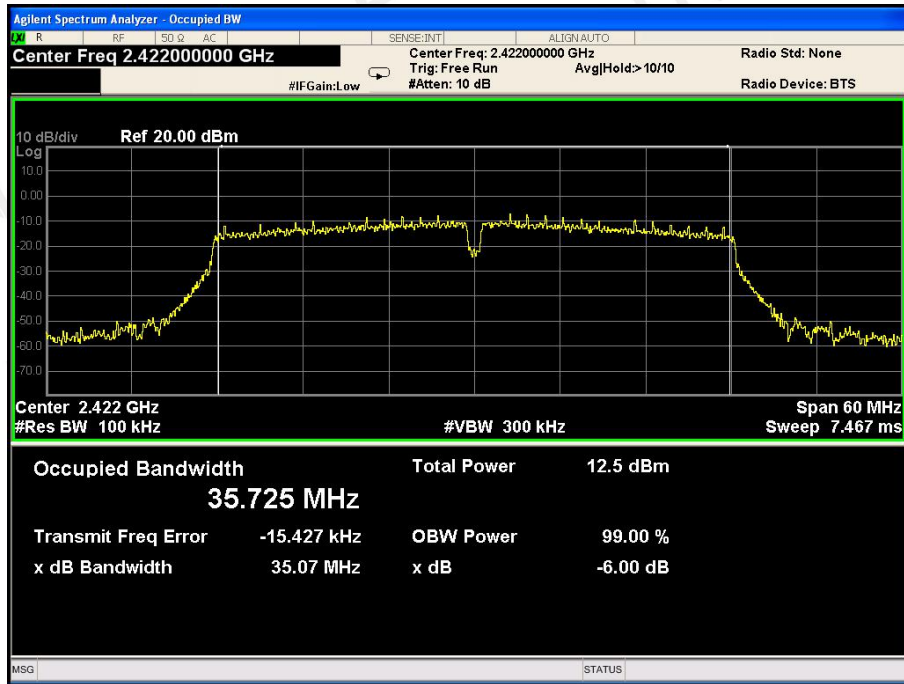


CH11: 2462MHz

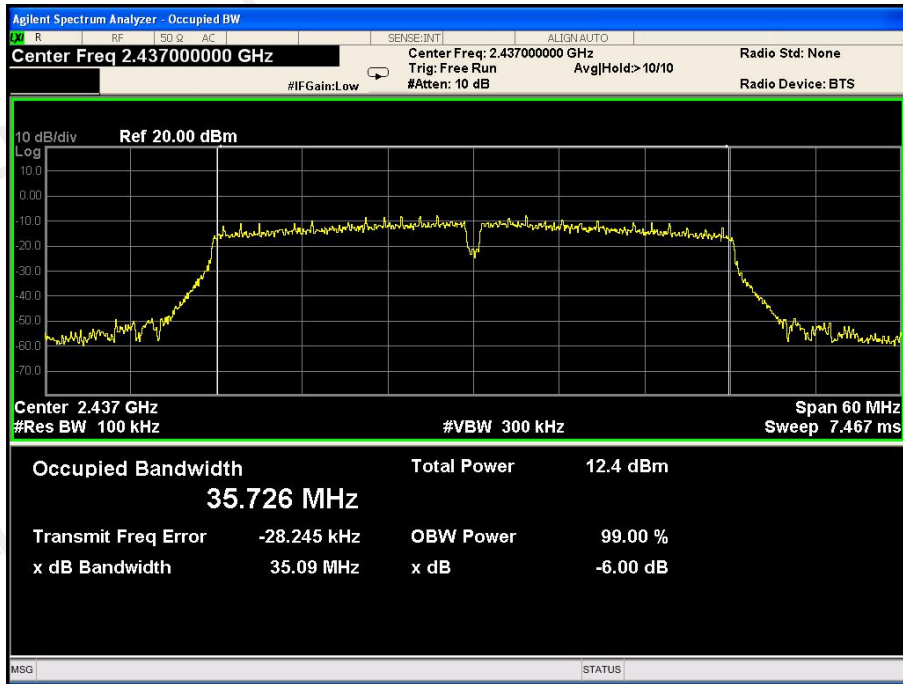


TX 802.11n/HT40 Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2422	35.07	>=500	PASS
2437	35.09	>=500	PASS
2452	35.07	>=500	PASS

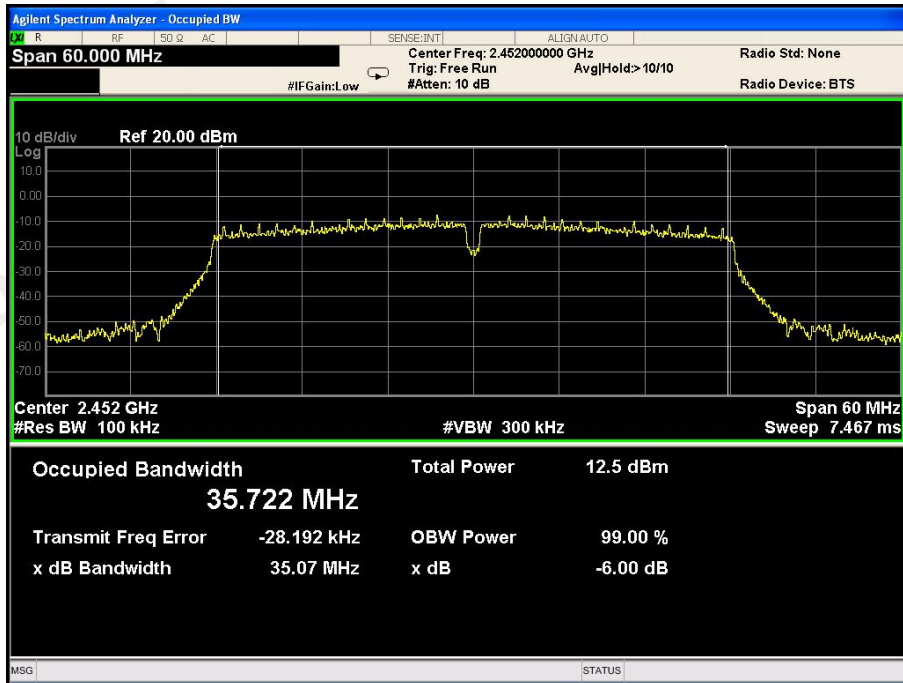
CH03: 2422MHz



CH06: 2437MHz



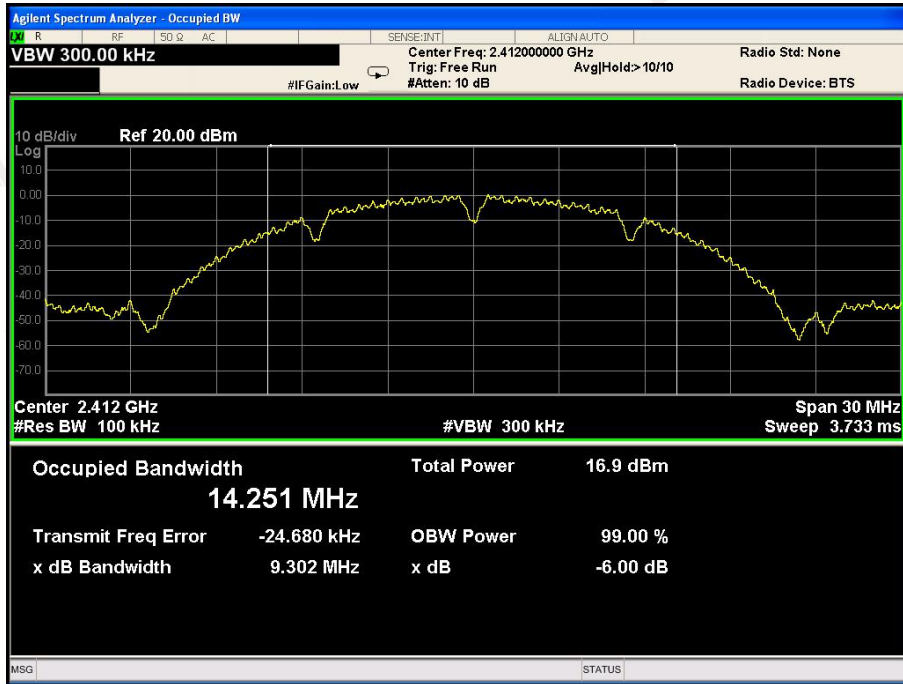
CH09: 2452MHz



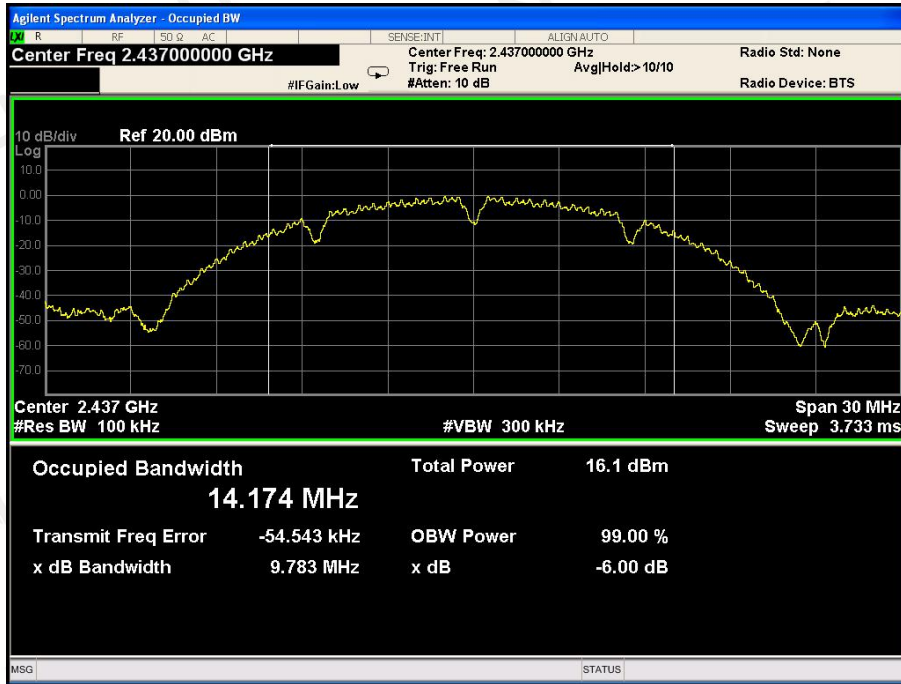
#2

TX 802.11b Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	9.302	>=500	PASS
2437	9.783	>=500	PASS
2462	9.539	>=500	PASS

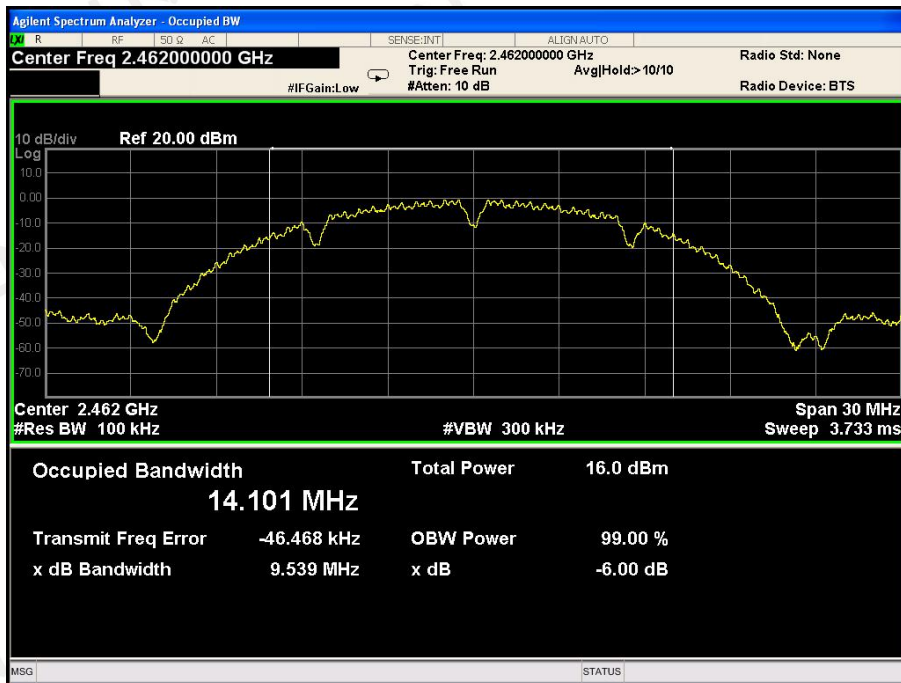
CH01: 2412MHz



CH06: 2437MHz

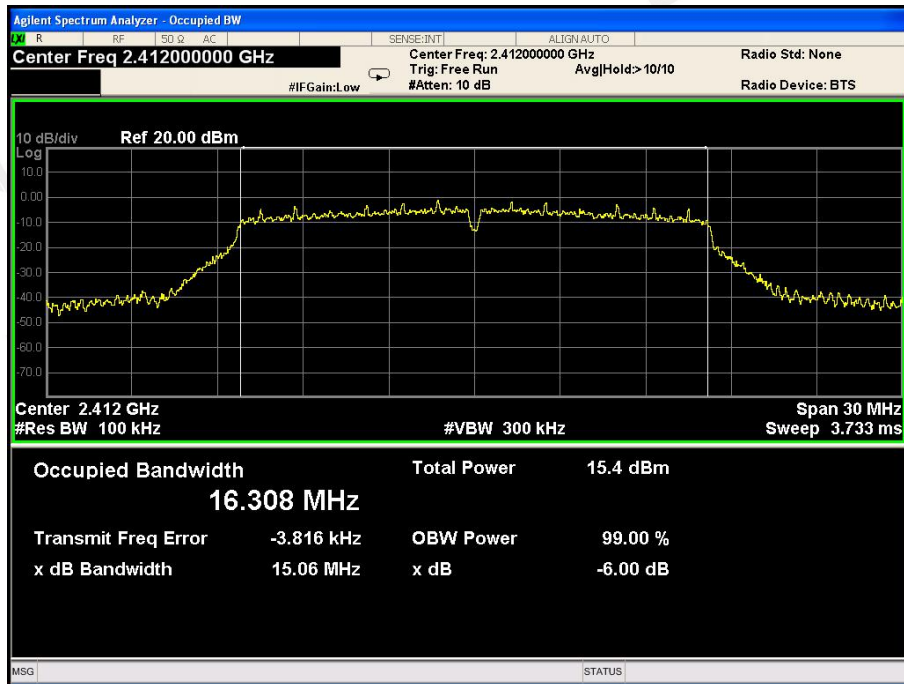


CH11: 2462MHz

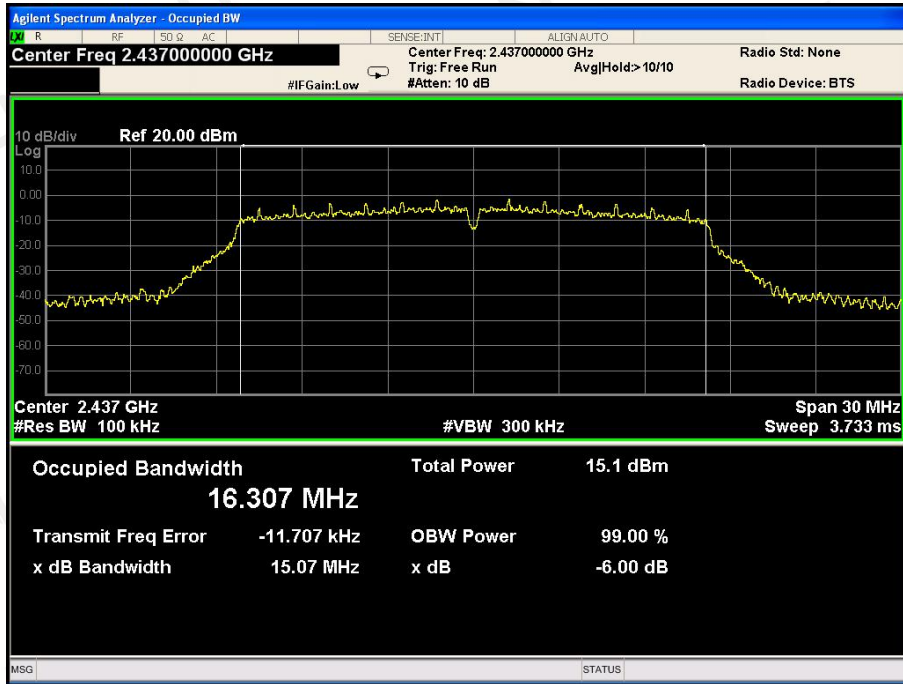


TX 802.11g Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	15.06	>=500	PASS
2437	15.07	>=500	PASS
2462	15.10	>=500	PASS

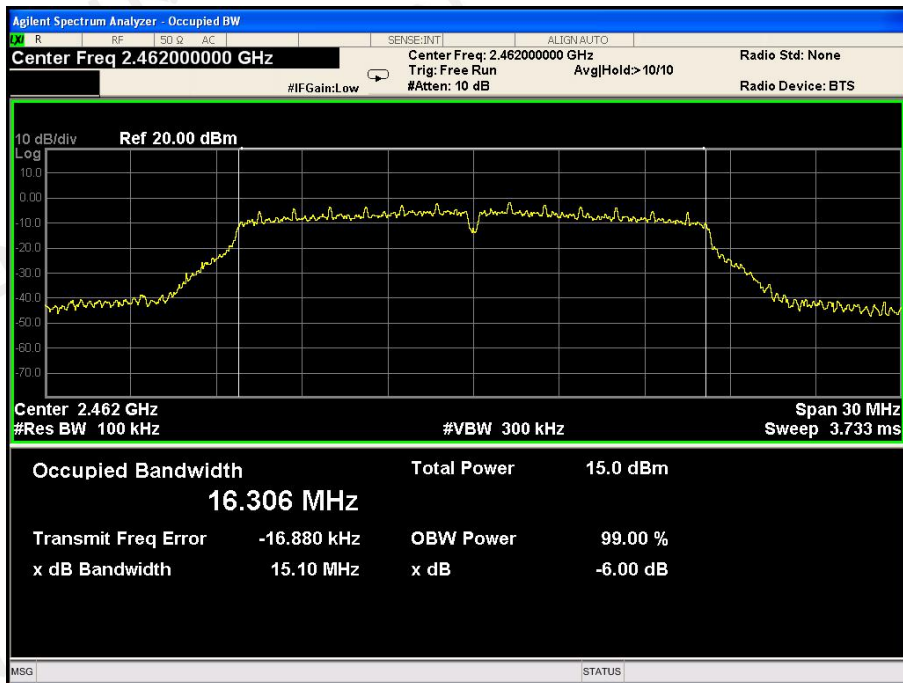
CH01: 2412MHz



CH06: 2437MHz

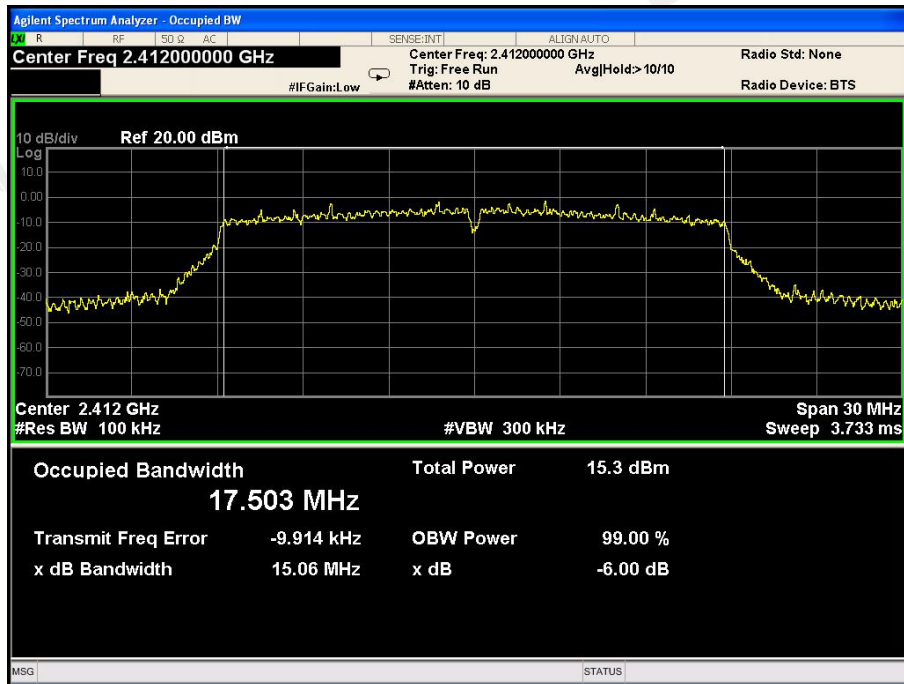


CH11: 2462MHz

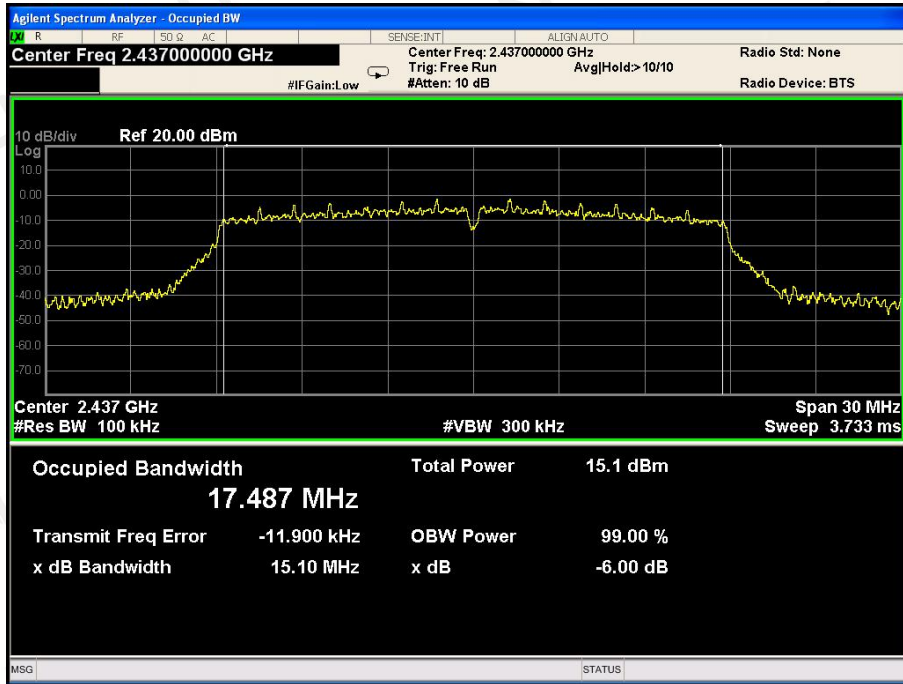


TX 802.11n/HT20 Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	15.06	>=500	PASS
2437	15.10	>=500	PASS
2462	15.09	>=500	PASS

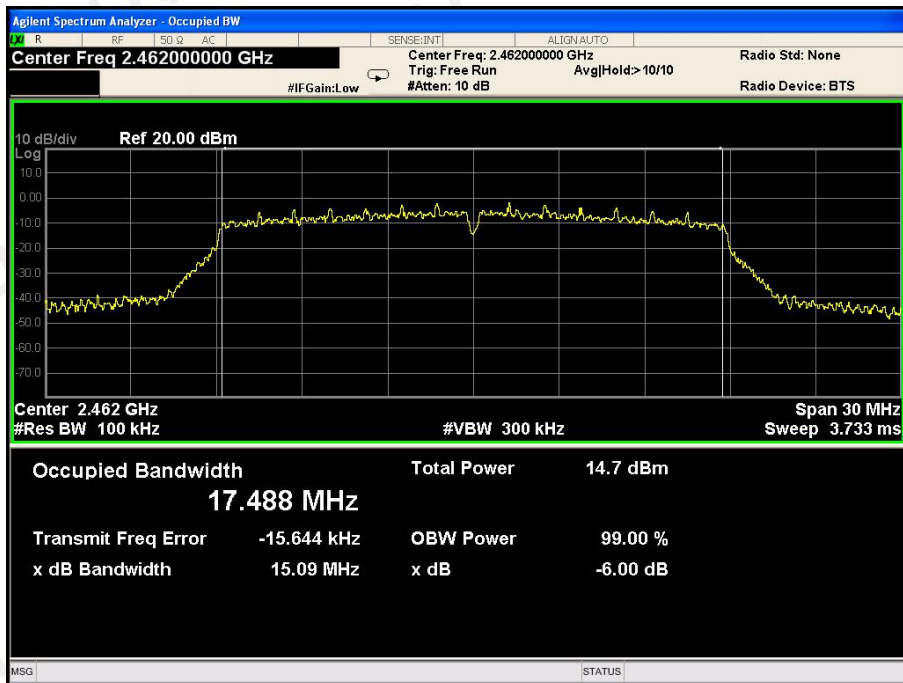
CH01: 2412MHz



CH06: 2437MHz

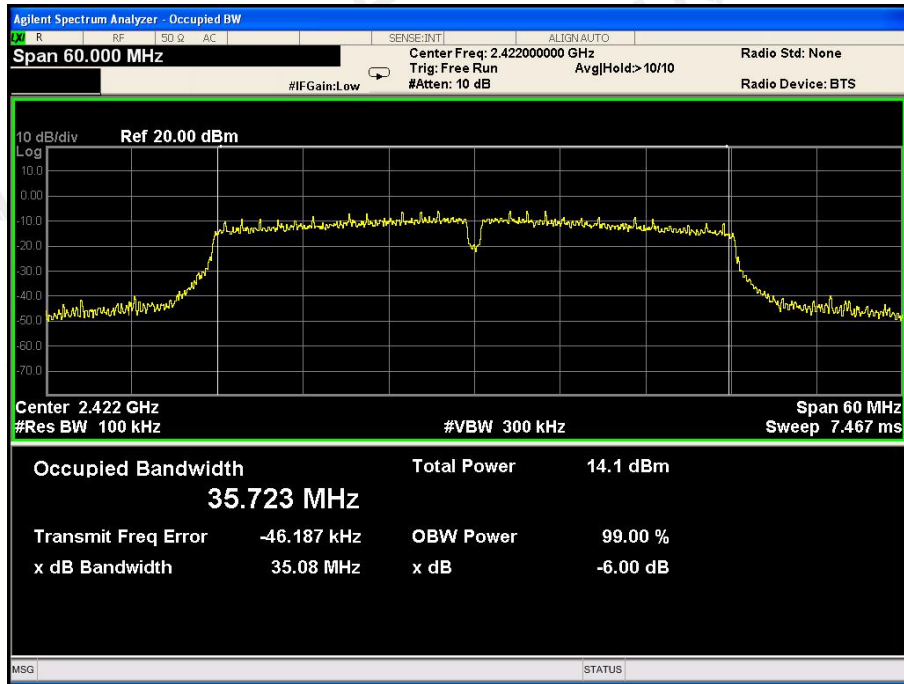


CH11: 2462MHz

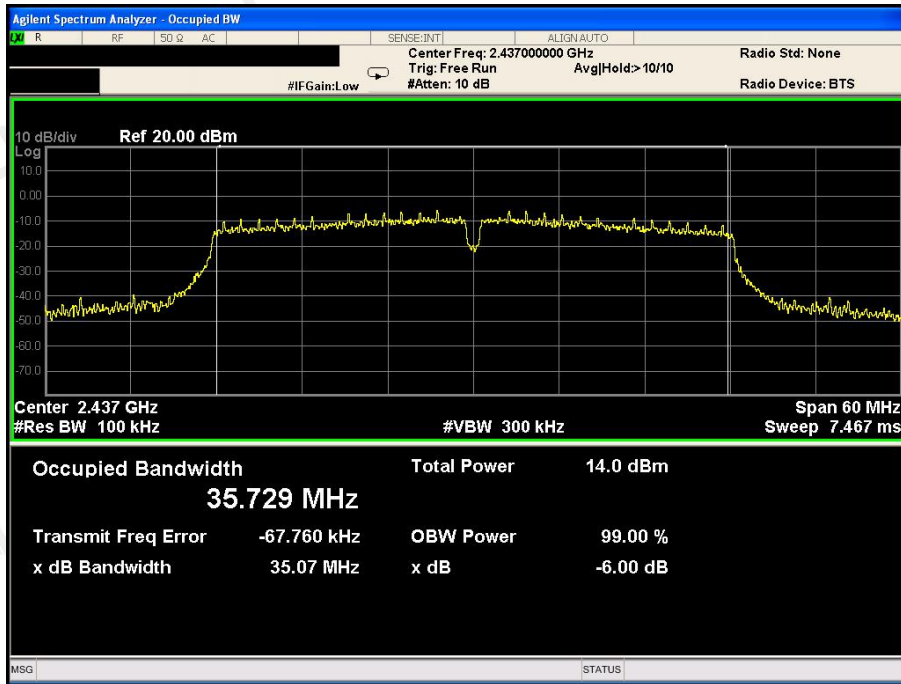


TX 802.11n/HT40 Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2422	35.08	>=500	PASS
2437	35.07	>=500	PASS
2452	35.08	>=500	PASS

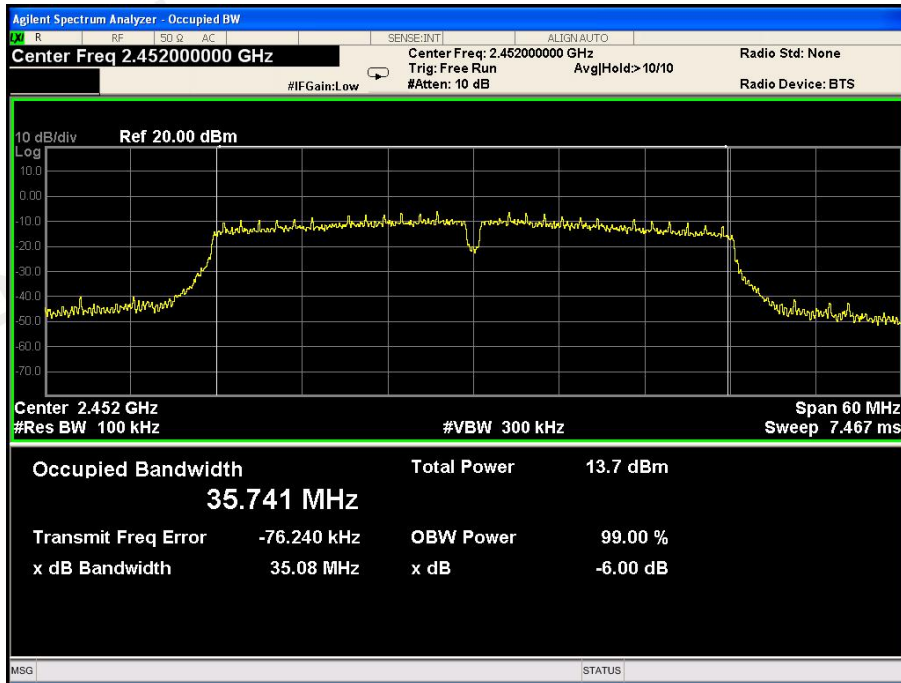
CH03: 2422MHz



CH06: 2437MHz



CH09: 2452MHz



6 POWER SPECTRAL DENSITY

6.1 TEST LIMIT

FCC Part15(15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3kHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.247: RBW=3kHz, VBW=10kHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

6.3 EQUIPMENT USED

Same as Radiated Emission Measurement.

6.4 TEST RESULT

PASS

Note: The prototype does not use MIMO technology. The prototype is a dual-antenna product, # 1 is the left antenna, # 2 is the right antenna

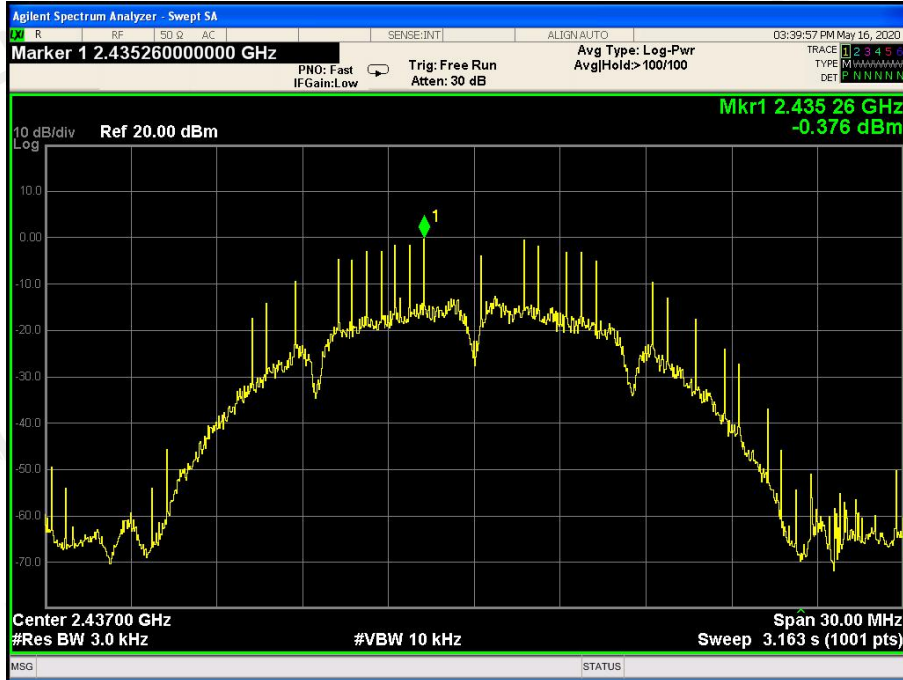
#1

TX 802.11b Mode			
Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	0.919	8	PASS
2437	-0.376	8	PASS
2462	0.008	8	PASS

CH01: 2412MHz



CH06: 2437MHz



CH11: 2462MHz



TX 802.11g Mode			
Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.215	8	PASS
2437	-14.748	8	PASS
2462	-14.831	8	PASS

CH01: 2412MHz

