



FCC 47 CFR PART 15 SUBPART C

for

DUAL-BAND WIFI EXTENDER

Model: WE65AC

Brand: SmartRG

Test Report Number:

C160322Z02-RP1-1

Issued Date: July 4, 2016

Issued for

SmartRG Inc.

501 SE Columbia Shores Blvd. Suit 500 Vancouver, WA 98661 United States

Issued by:

Compliance Certification Services (Shenzhen) Inc.

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TESTING CERT #2861.01

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 4, 2016	Initial Issue	ALL	Sabrina Wang



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1 TEST CERTIFICATION

Product	DUAL-BAND WIFI EXTENDER
Model	WE65AC
Brand	SmartRG
Tested	March 22~July 4, 2016
Applicant	SmartRG Inc. 501 SE Columbia Shores Blvd. Suit 500 Vancouver, WA 98661 United States
Manufacturer	SmartRG Inc. 501 SE Columbia Shores Blvd. Suit 500 Vancouver, WA 98661 United States
Factory	1. Shenzhen Gongjin Electronics Co., Ltd. No 2&3 Buildings, Mingwei Factory Area Songgang Road West, Songgang Sub-District, Shenzhen, Guangdong, P.R.China 2. TAICANG T&W Electronics Co., Ltd. Jiangnan Road 89, Loudong Street Taicang, Jiangsu, 215412, P.R.China

APPLICABLE STANDARDS

Standard	Test Type	Standard	Test Type
15.207(a)	Power Line Conducted Emissions	15.247(d) 15.209(a)	● Spurious Emissions ● Conducted Measurement ● Radiated Emissions
15.247(a)(2)	6dB Bandwidth Measurement	15.247(b)(3) 15.247(b)(4)	Peak Power Measurement
15.247(d)	Band Edges Measurement	15.247(e)	Peak Power Spectral Density

We hereby certify that:

The above equipment was tested by Compliance Certification Services (Shenzhen) Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Sunday Hu
Supervisor of EMC Dept.
Compliance Certification Services (Shenzhen) Inc.

Reviewed by:

Ruby Zhang
Supervisor of Report Dept.
Compliance Certification Services (Shenzhen) Inc.



2 TEST RESULT SUMMARY

APPLICABLE STANDARDS			
Standard	Test Type	Result	Remark
15.247(a)(2)	6dB Bandwidth Measurement	Pass	Meet the requirement of limit.
15.247(b)(3) 15.247(b)(4)	Peak Power Measurement	Pass	Meet the requirement of limit.
15.247(d)	Band Edges Measurement	Pass	Meet the requirement of limit.
15.247(e)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.247(d) 15.209(a)	● Spurious Emissions ● Conducted Measurement ● Radiated Emissions	Pass	Meet the requirement of limit.
15.207(a)	Power line Conducted Emissions	Pass	Meet the requirement of limit.

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

2. The information of measurement uncertainty is available upon the customer's request.



3 EUT DESCRIPTION

Product	DUAL-BAND WIFI EXTENDER
Model Number	WE65AC
Brand	SmartRG
Model Discrepancy	N/A
Identify Number	C160322Z02-RP1-1
Received Date	March 22, 2016
Power Supply	Input: ~100-240V, 50/60Hz, 0.5A
Transmit Power	IEEE 802.11b mode: 20.78dBm (Antenna 0) IEEE 802.11b mode: 23.38dBm (Antenna 1) IEEE 802.11g mode: 19.17dBm (Antenna 0) IEEE 802.11g mode: 25.31dBm (Antenna 1) IEEE 802.11n HT20 MHz mode: 26.41dBm(Combine with Antenna 0 and Antenna 1) IEEE 802.11n HT40 MHz mode: 25.77dBm(Combine with Antenna 0 and Antenna 1)
Modulation Technique	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Transmit Data Rate	IEEE 802.11b: 11Mbps(CCK) with fall back rates of 5.5/2/1Mbps IEEE 802.11g: 54Mbps with fall back rates of 48/36/24/18/12/9 /6Mbps IEEE 802.11n HT20: 130Mbps with fall back rates of 130/117/104/78/52/39/26/13Mbps IEEE 802.11n HT40: 270Mbps with fall back rates of 270/243/216/162/108/81/54/27Mbps
Number of Channels	IEEE 802.11b mode: 11 Channels IEEE 802.11g mode: 11 Channels IEEE 802.11n HT20 MHz mode: 11 Channels IEEE 802.11n HT40 MHz mode: 7 Channels
Antenna Specification	Embedded Antenna 0 with 3.5dBi gain (Max) Embedded Antenna 1 with 3.5dBi gain (Max)
Channels Spacing	IEEE 802.11b/g ,802.11n HT20/HT40 : 5MHz
Temperature Range	0°C ~ +40°C
Hardware Version	V1.01
Software Version	V1.0.0

Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2. This submittal(s) (test report) is intended for FCC ID: **VW7WE65** filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.



4 TEST METHODOLOGY

4.1. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Test Item	Test mode	Worse mode
Conducted Emission	Mode 1: Full System+1000Mbps 10%	Mode 1
Radiated Emission	Mode 1: TX	Mode 1

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only, and power line conducted emission below 30MHz, which worst case was in normal link mode.

IEEE802.11b mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE802.11g mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT20 MHz mode: Channel Low (2412MHz), Channel Mid(2437MHz) and Channel High (2462MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT40 MHz mode: Channel Low (2422MHz), Channel Mid (2437MHz) and Channel High (2452MHz) with 27Mbps data rate were chosen for full testing.



5 SETUP OF EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF SUPPORT UNITS

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.

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	Notebook	E335	R9-WN1EF	DoC	Thinkpad	Unshielded 1.50m (RJ45 Cable)	Shielded 1.60m (AC Cable) Unshielded 1.80m (DC Cable)

Note:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5.2. CONFIGURATION OF SYSTEM UNDER TEST

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.



6 FACILITIES AND ACCREDITATIONS

6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at
**No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town,
Baoan District, Shenzhen, China**

The sites are constructed in conformance with the requirements of ANSI C63.10, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA
China

A2LA
CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA
Japan
Canada

FCC
VCCI (C-4815,R-4320,T-2317, G-10624)
INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccssz.com>

6.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site : 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB
Conducted Emissions	+/-3.6836dB
Band Width	178kHz
Peak Output Power MU	+/-1.906dB
Band Edge MU	+/-0.182dB
Channel Separation MU	416.178Hz
Duty Cycle MU	0.054ms
Frequency Stability MU	226Hz

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

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.



7 FCC PART 15.247 REQUIREMENTS

7.1. POWER LINE CONDUCTED EMISSIONS MEASUREMENT

7.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (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 the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

7.1.2. TEST INSTRUMENTS

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	02/21/2016	02/20/2017
LISN	EMCO	3825/2	8901-1459	02/21/2016	02/20/2017
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	02/21/2016	02/20/2017
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE			

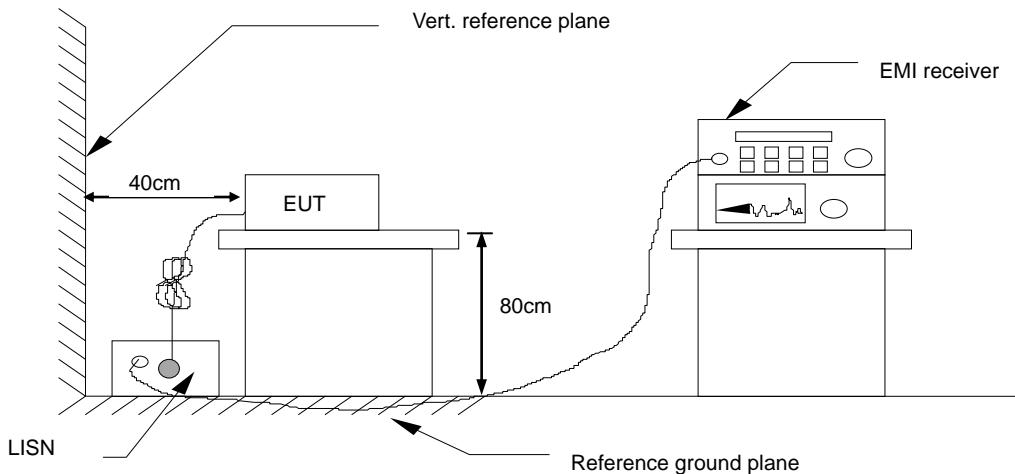
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.



7.1.3. TEST PROCEDURES (please refer to measurement standard)

- The EUT and Support equipment, if needed, was placed on a non-conducted table, which is 0.8m above the ground plane and 0.4m away from the conducted wall.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane. All support equipment power received from a second LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The frequency range from 150 kHz to 30 MHz was searched. The test data of the worst-case condition(s) was recorded. Emission levels under limit 20dB were not recorded.

7.1.4. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.1.5. DATA SAMPLE

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 (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss

Result = Quasi-peak Reading/ Average Reading + Factor

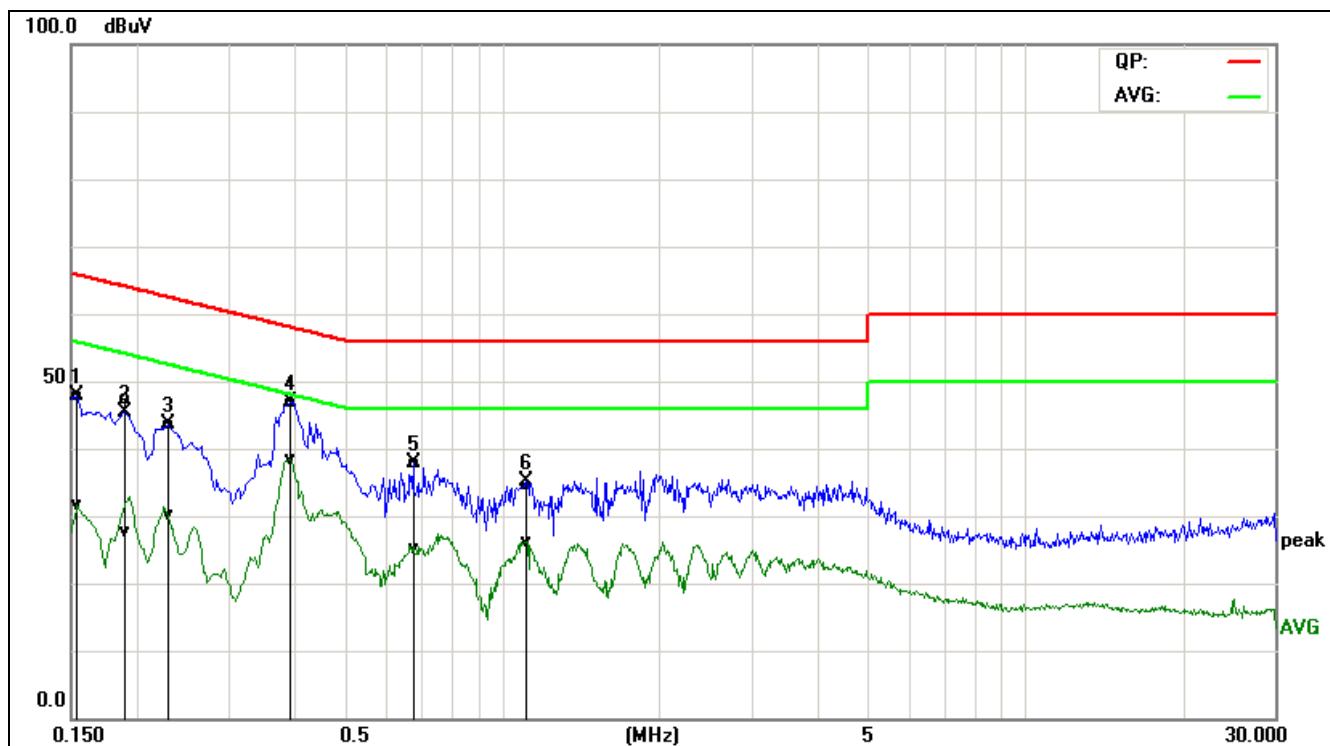
Limit = Limit stated in standard

Margin = Result (dBuV) – Limit (dBuV)



7.1.6. TEST RESULTS

Model No.	WE65AC	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Darry Wu	Line	L1
Test Date	June 23, 2016		

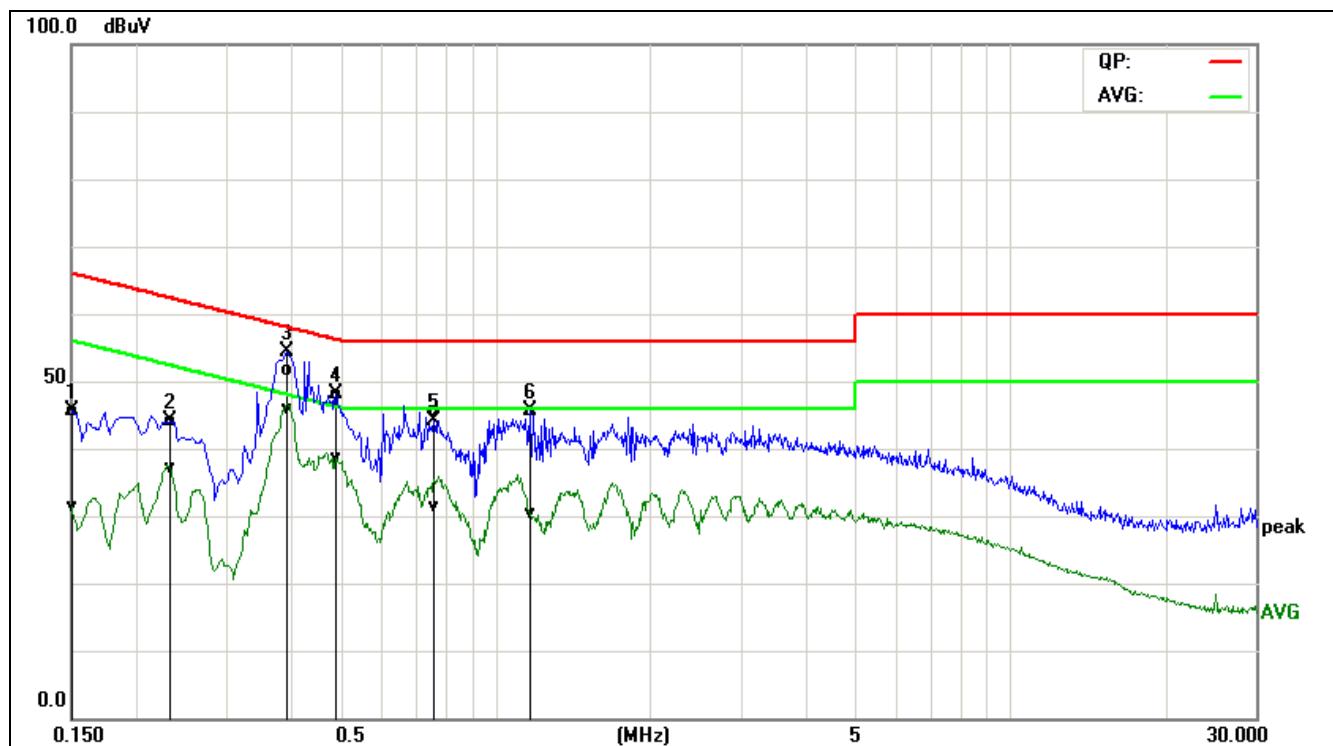


Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	Line (L1/L2)
0.1539	38.32	21.94	9.59	47.91	31.53	65.78	55.79	-17.87	-24.26	Pass	L1
0.1904	37.81	17.98	9.67	47.48	27.65	64.01	54.02	-16.53	-26.37	Pass	L1
0.2300	33.82	20.40	9.69	43.51	30.09	62.45	52.45	-18.94	-22.36	Pass	L1
0.3940	37.15	28.74	9.68	46.83	38.42	57.98	47.98	-11.15	-9.56	Pass	L1
0.6780	28.15	15.47	9.78	37.93	25.25	56.00	46.00	-18.07	-20.75	Pass	L1
1.1100	24.96	16.54	9.71	34.67	26.25	56.00	46.00	-21.33	-19.75	Pass	L1

REMARKS: L1 = Line One (Live Line)



Model No.	WE65AC	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Darry Wu	Line	L2
Test Date	June 23, 2016		



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 (Pass/Fail)	Line (L1/L2)
0.1500	35.73	21.55	9.78	45.51	31.33	65.99	56.00	-20.48	-24.67	Pass	L2
0.2340	34.24	27.25	9.78	44.02	37.03	62.30	52.31	-18.28	-15.28	Pass	L2
0.3902	41.90	36.11	9.72	51.62	45.83	58.06	48.06	-6.44	-2.23	Pass	L2
0.4900	38.50	28.98	9.68	48.18	38.66	56.17	46.17	-7.99	-7.51	Pass	L2
0.7620	35.80	21.62	9.71	45.51	31.33	56.00	46.00	-10.49	-14.67	Pass	L2
1.1660	35.72	20.60	9.79	45.51	30.39	56.00	46.00	-10.49	-15.61	Pass	L2

REMARKS: L2 = Line Two (Neutral Line)



7.2. SPURIOUS EMISSIONS MEASUREMENT

7.2.1. CONDUCTED EMISSIONS MEASUREMENT

7.2.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

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 Section 15.205(c)).

7.2.1.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY55370330	02/21/2016	02/20/2017

7.2.1.3. TEST PROCEDURE (please refer to measurement standard)

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

Measurements are made over the 10MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels. No emission found between lowest internal used/generated frequency to 10MHz, it is only recorded 10MHz to 26GHz.

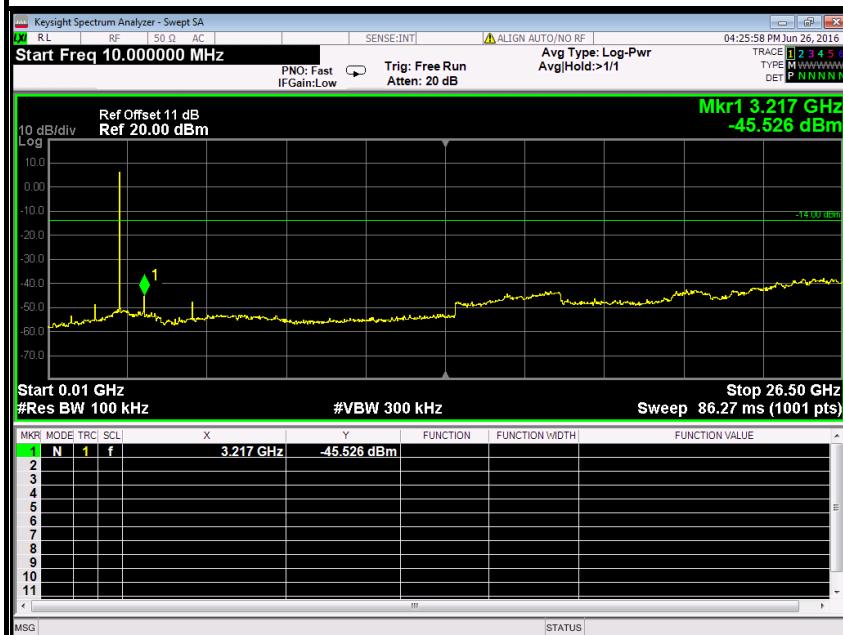


7.2.1.4. TEST RESULTS

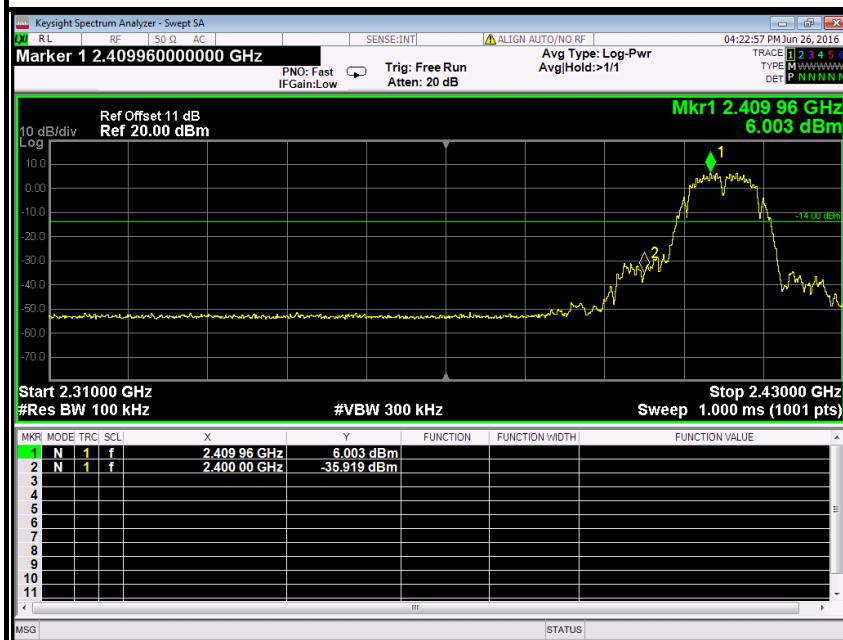
Test Plot

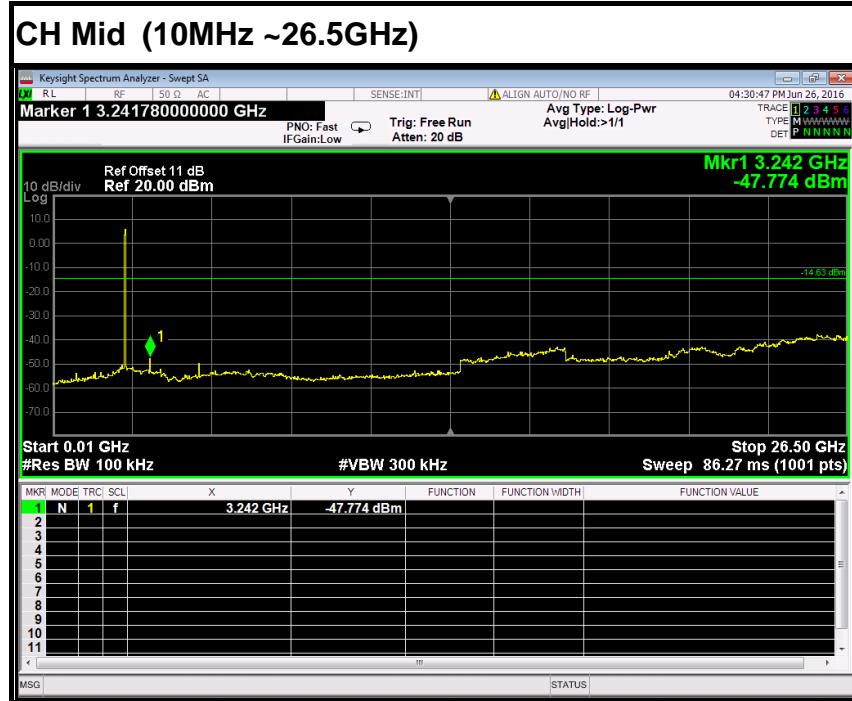
IEEE 802.11b mode (Antenna 0)

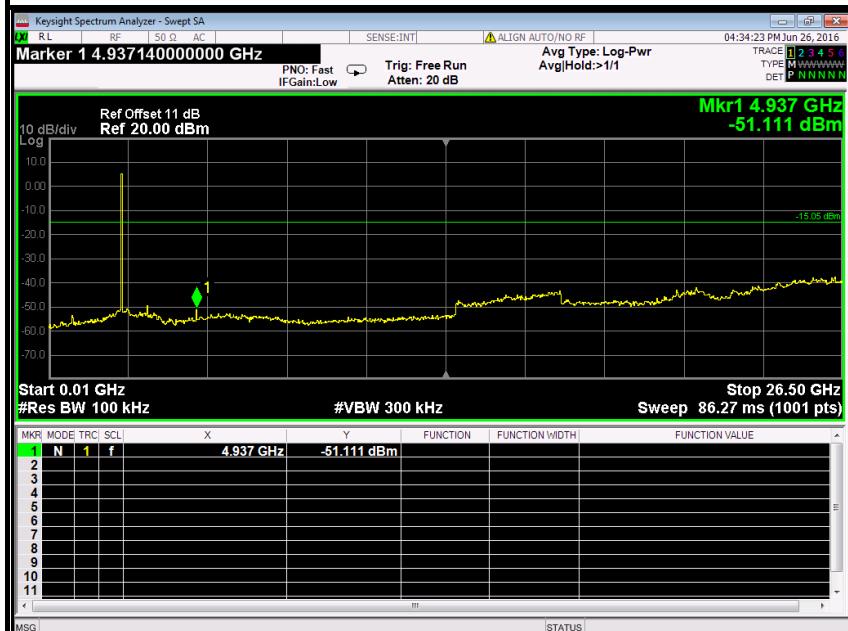
CH Low (10MHz ~26.5GHz)

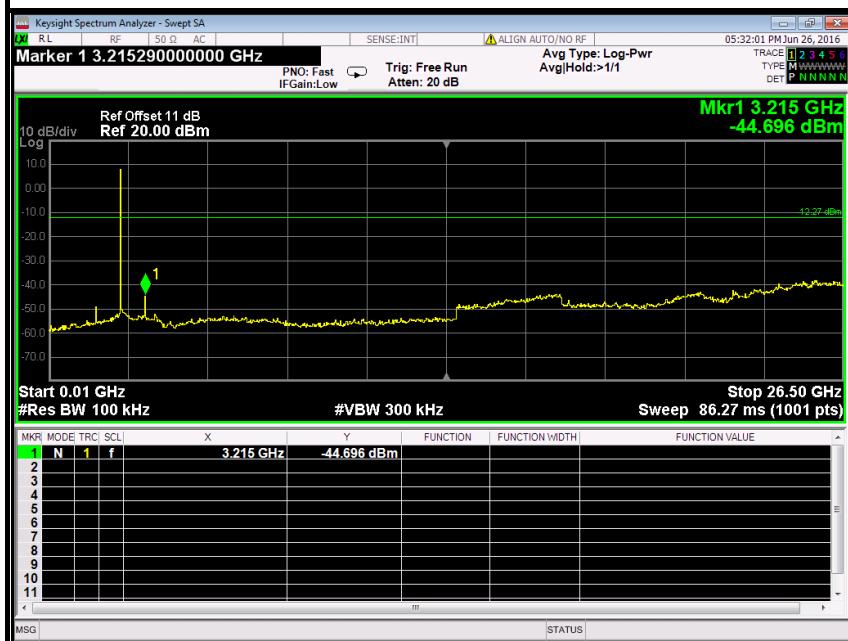
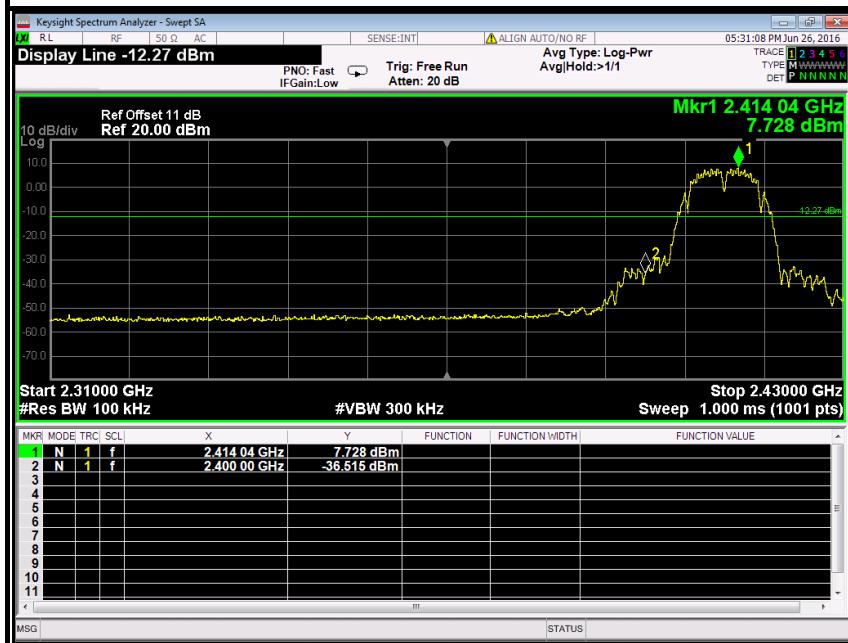


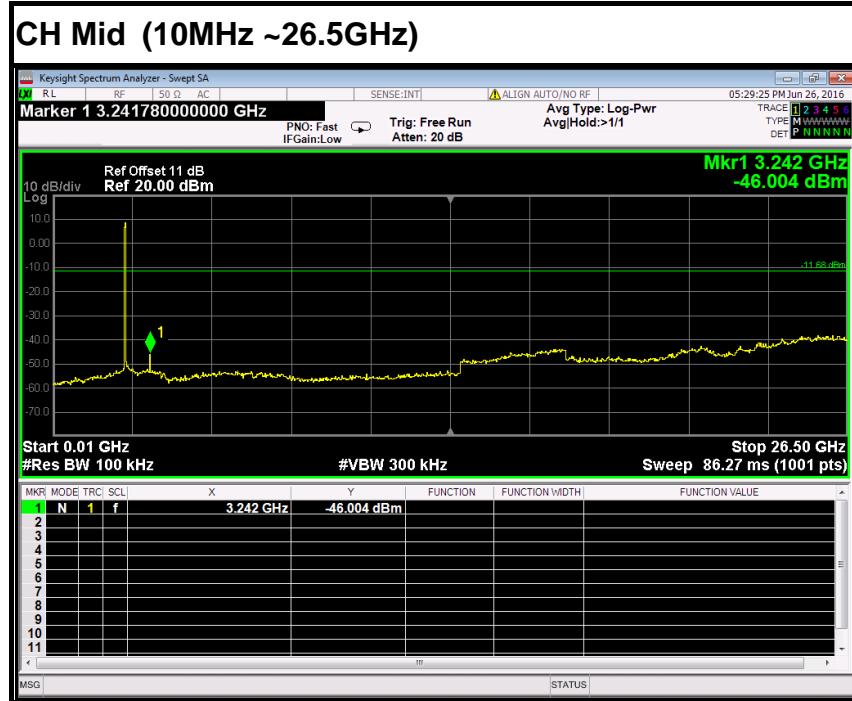
CH Low (2.31GHz ~2.43GHz)

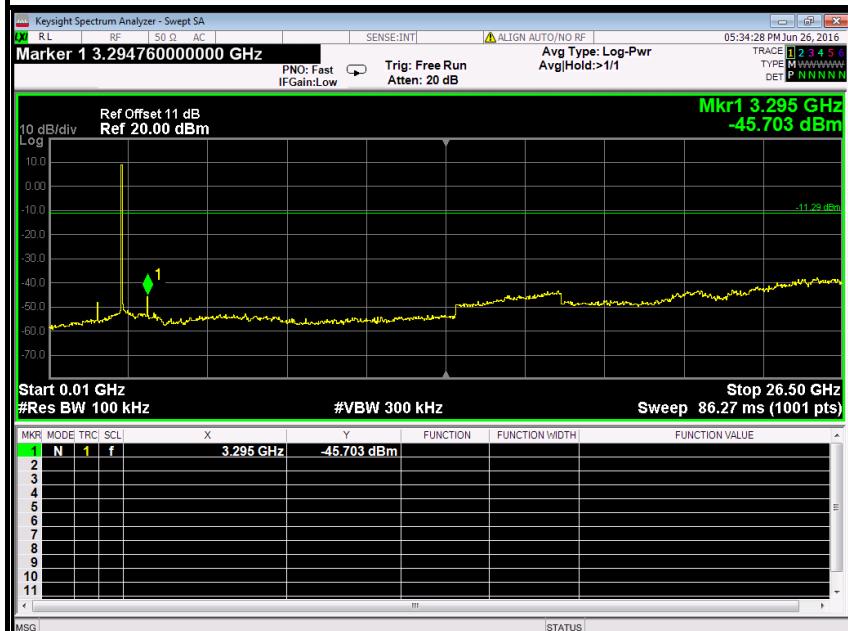


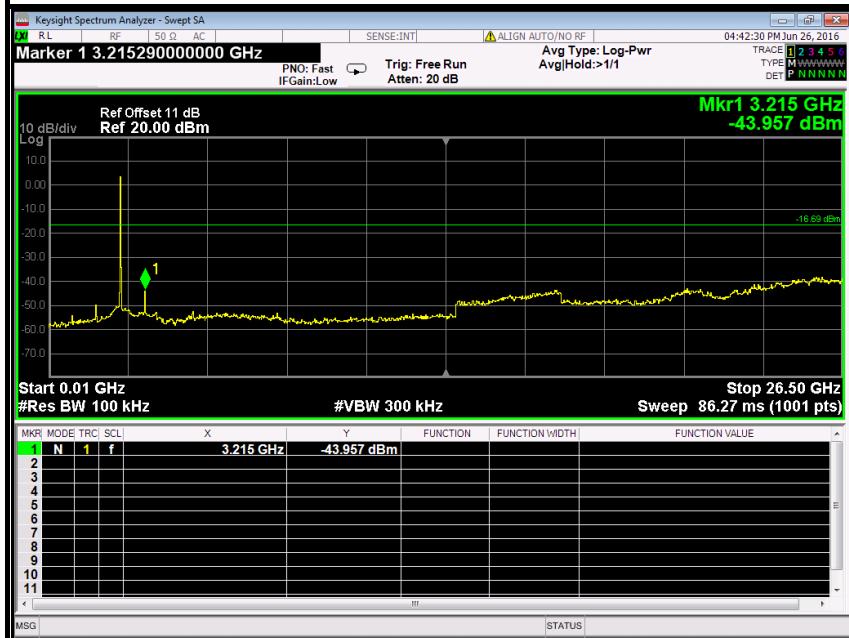
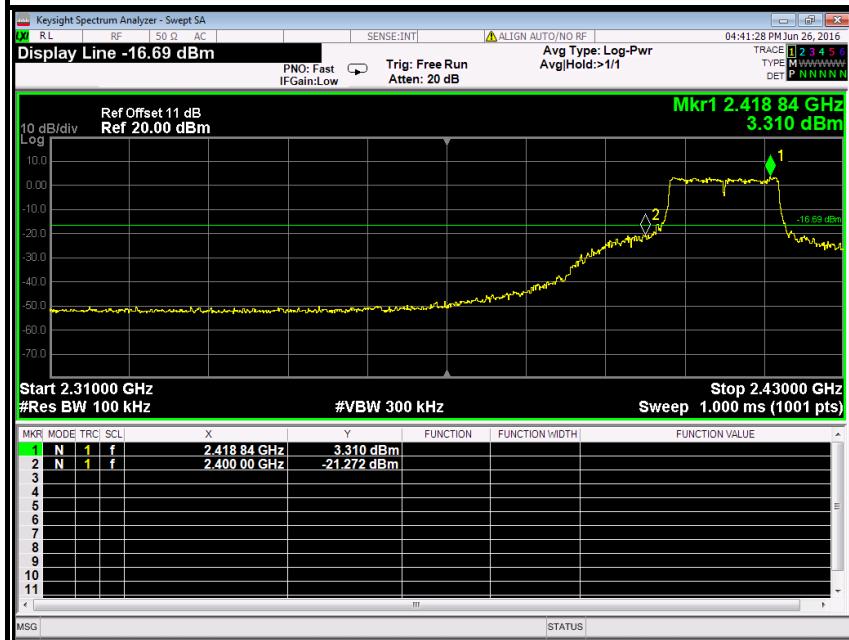


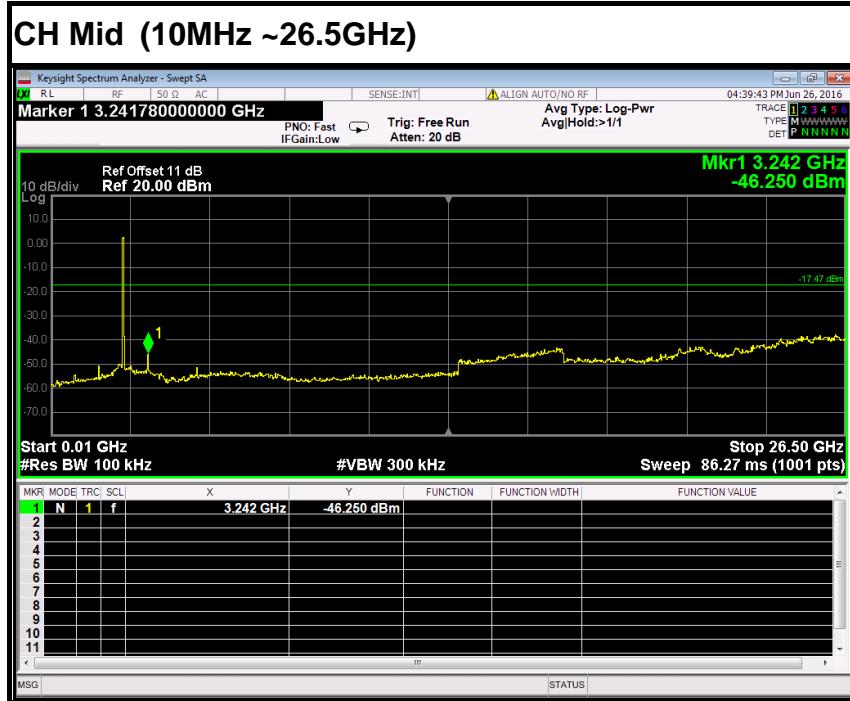
**CH High (10MHz ~26.5GHz)****CH High (2.45GHz ~2.5GHz)**

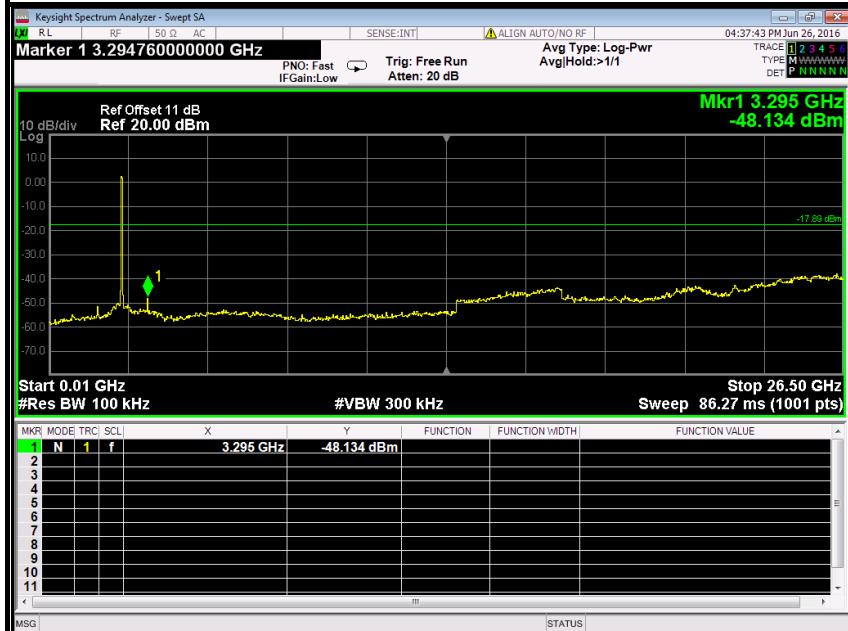
**IEEE 802.11b mode (Antenna 1)****CH Low (10MHz ~26.5GHz)****CH Low (2.31GHz ~2.43GHz)**

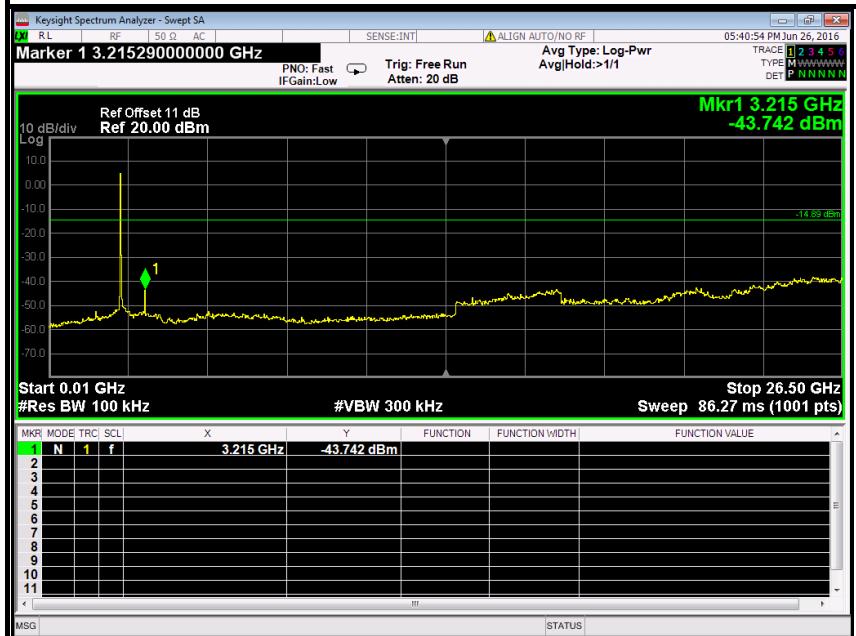
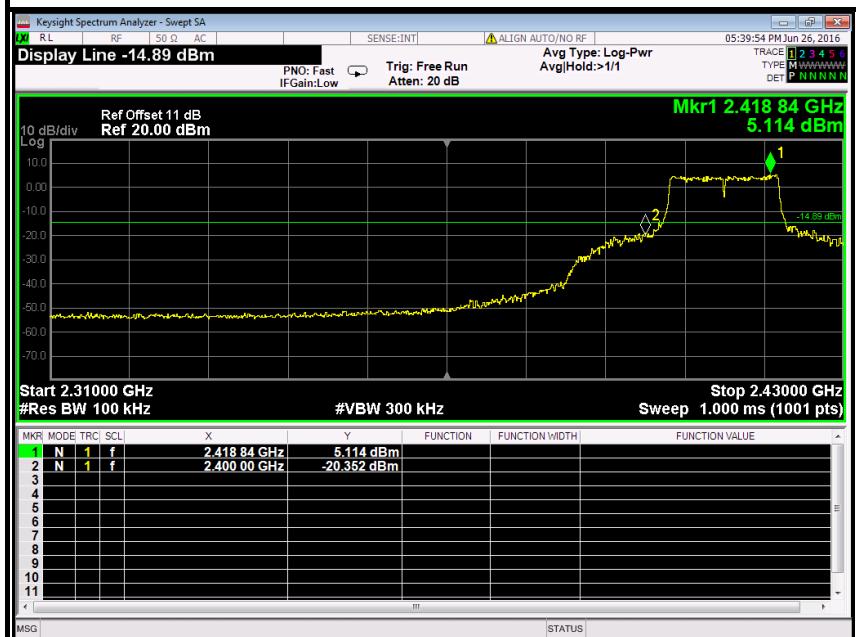


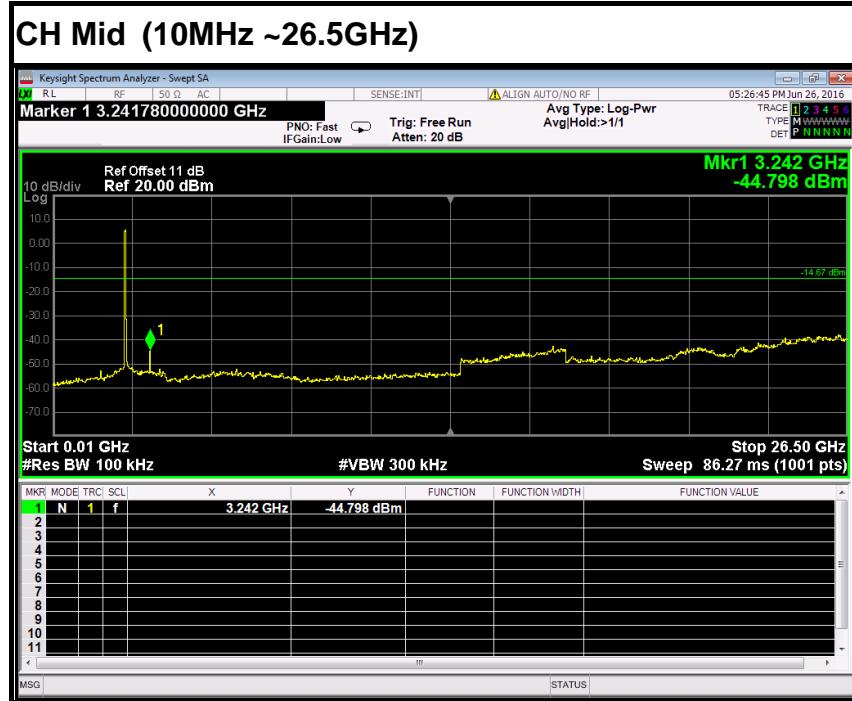
**CH High (10MHz ~26.5GHz)****CH High (2.45GHz ~2.5GHz)**

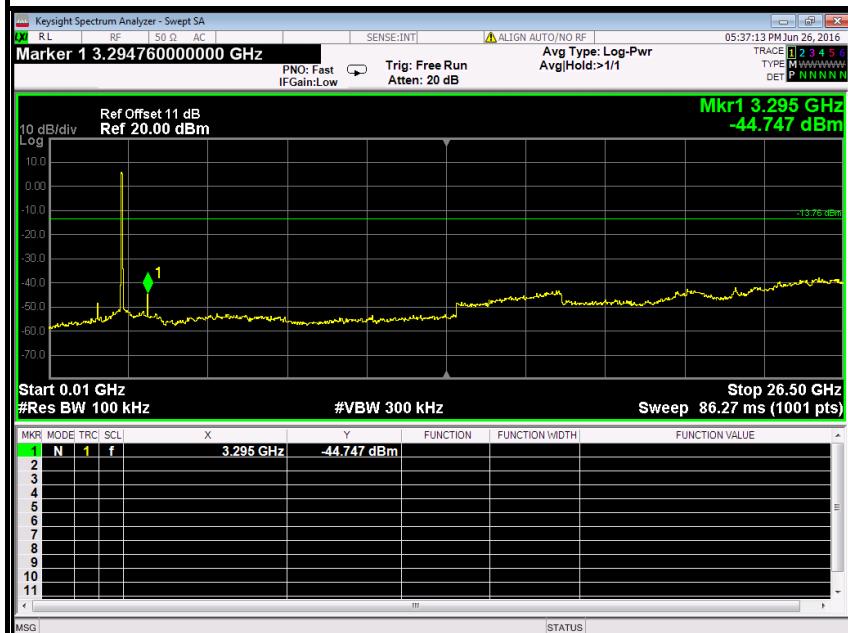
**IEEE 802.11g mode (Antenna 0)****CH Low (10MHz ~26.5GHz)****CH Low (2.31GHz ~2.43GHz)**

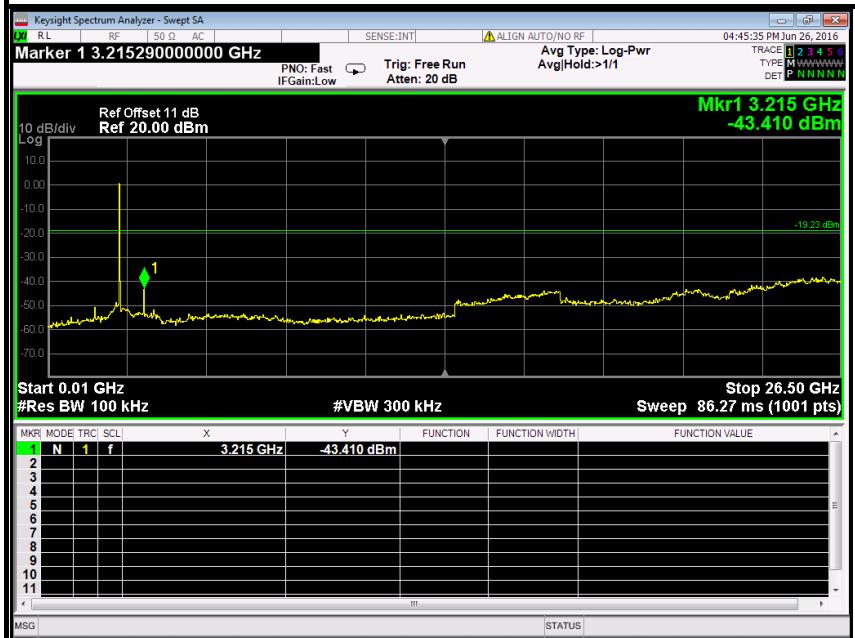
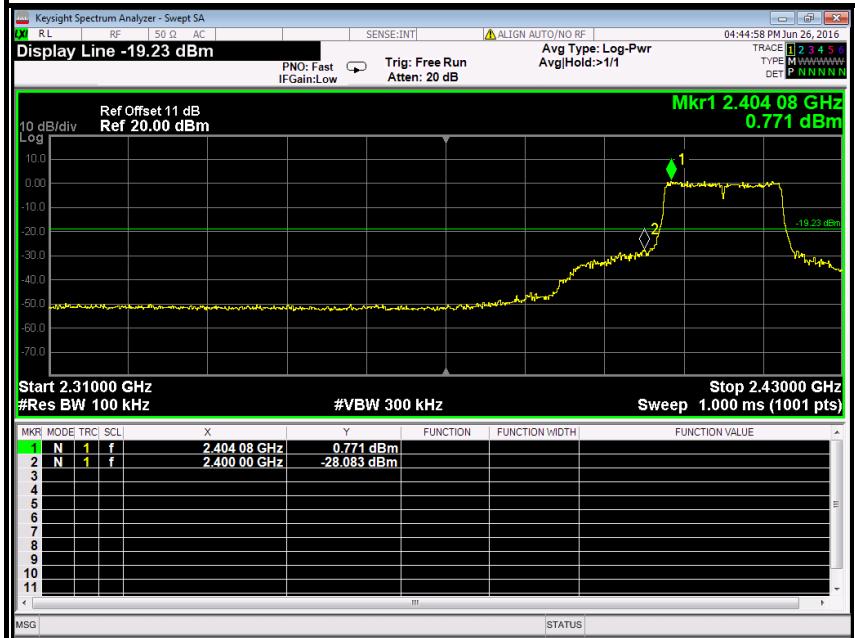


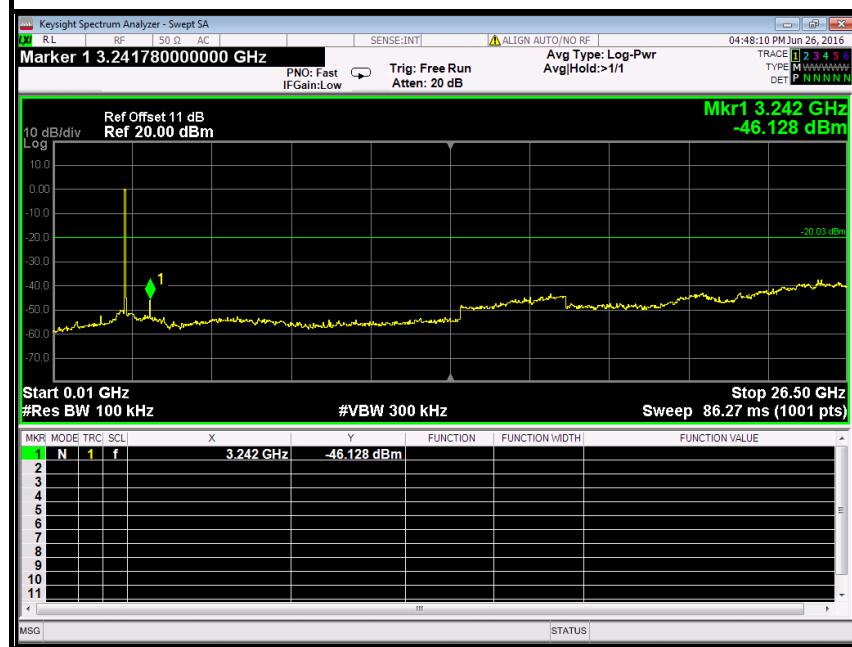
**CH High (10MHz ~26.5GHz)****CH High (2.45GHz ~2.5GHz)**

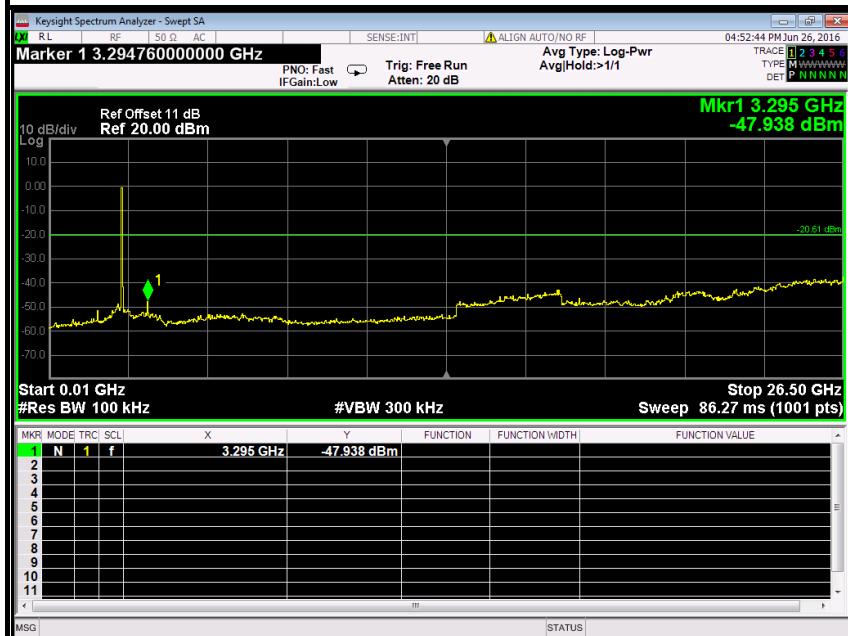
**IEEE 802.11g mode (Antenna 1)****CH Low (10MHz ~26.5GHz)****CH Low (2.31GHz ~2.43GHz)**

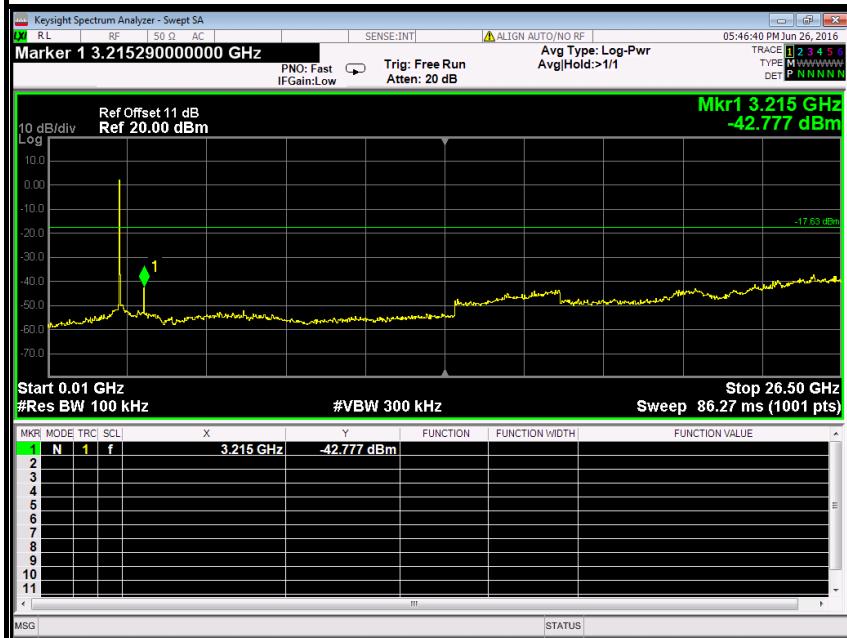
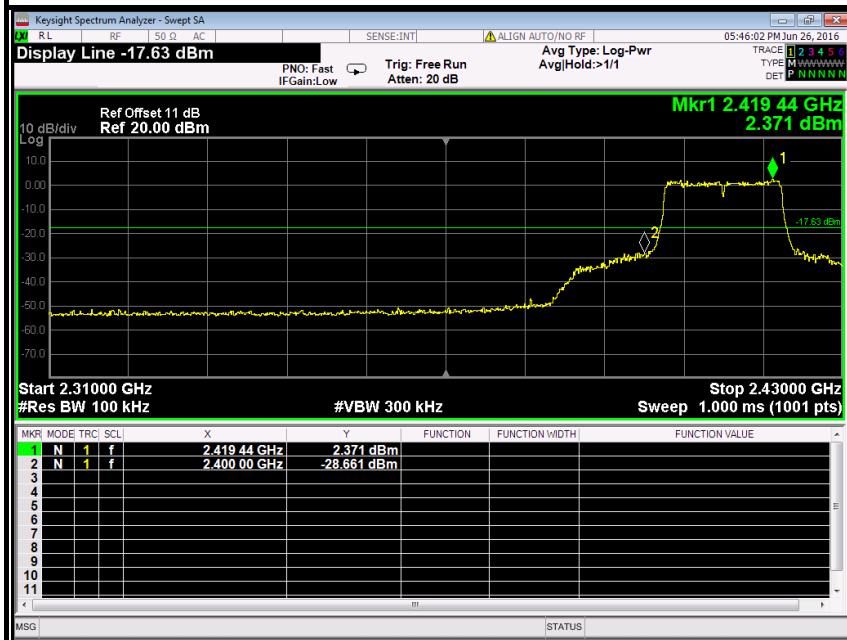


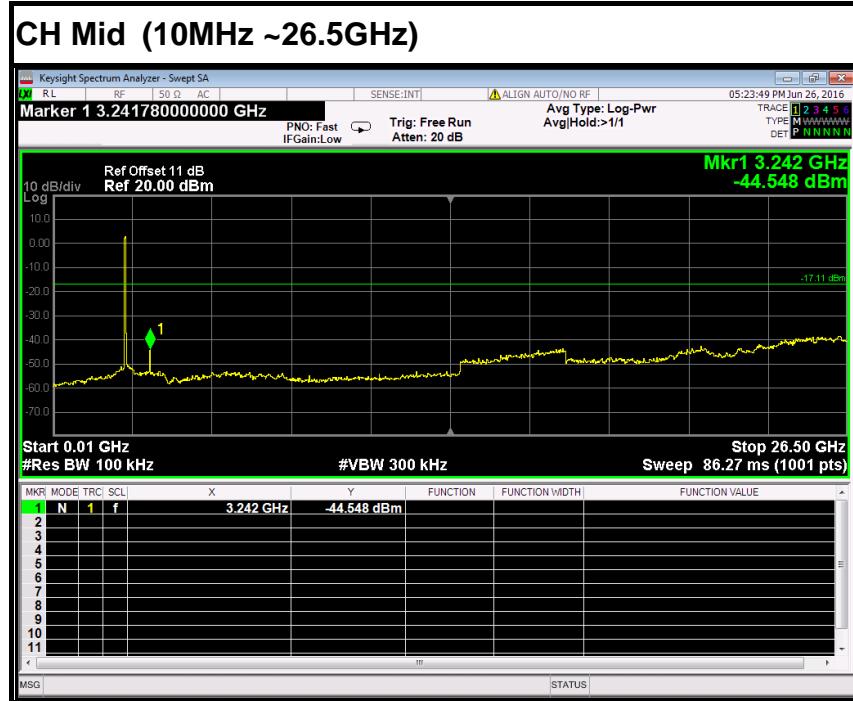
**CH High (10MHz ~26.5GHz)****CH High (2.45GHz ~2.5GHz)**

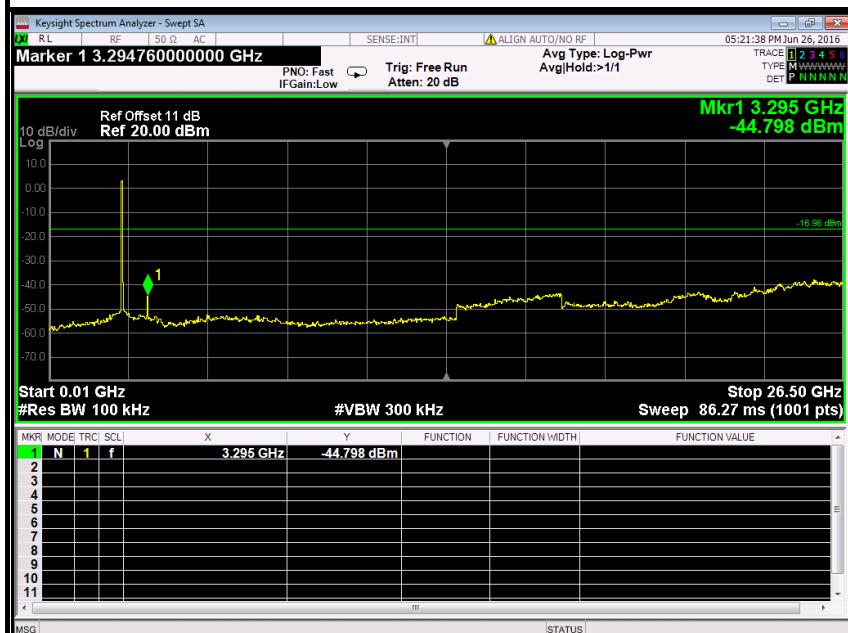
**IEEE 802.11n HT20 MHz mode (Antenna 0)****CH Low (10MHz ~26.5GHz)****CH Low (2.31GHz ~2.43GHz)**

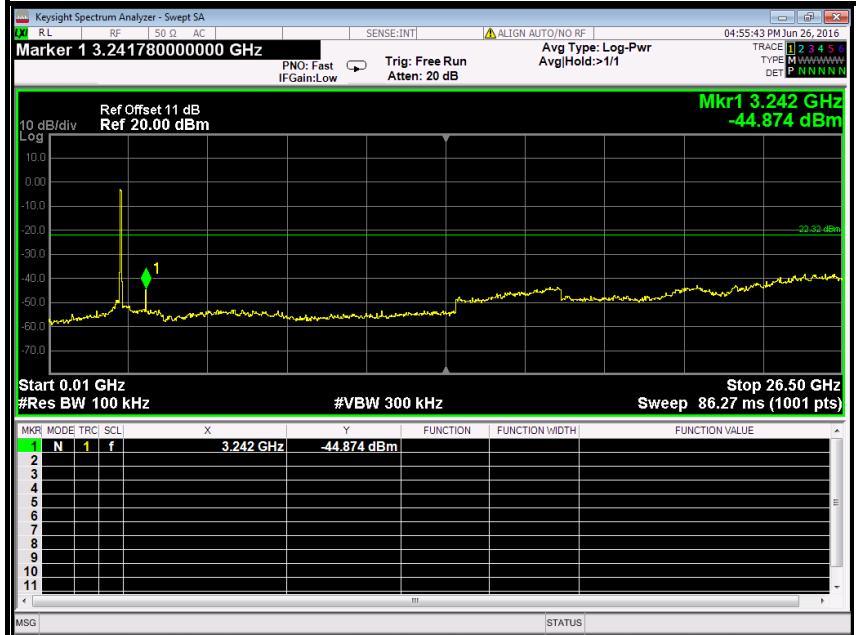
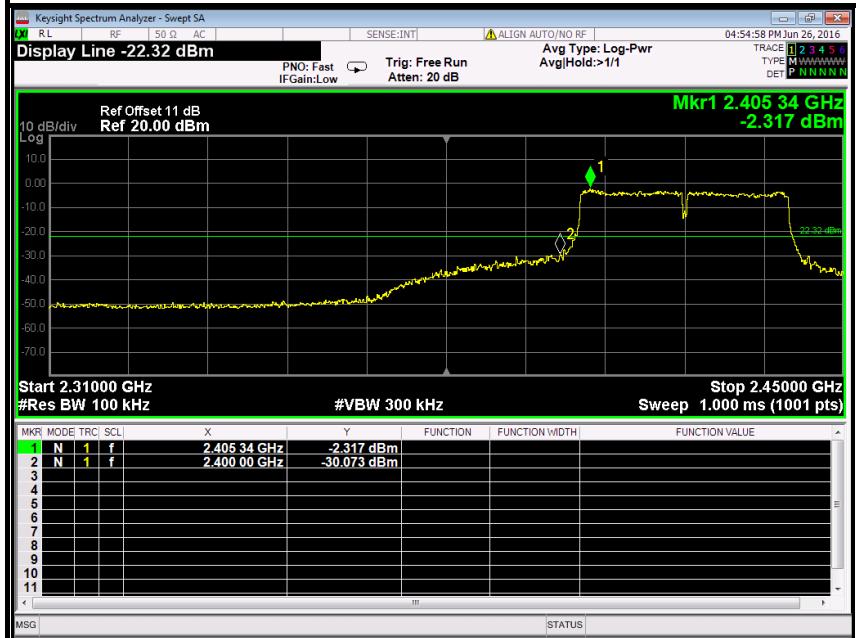
**CH Mid (10MHz ~26.5GHz)**

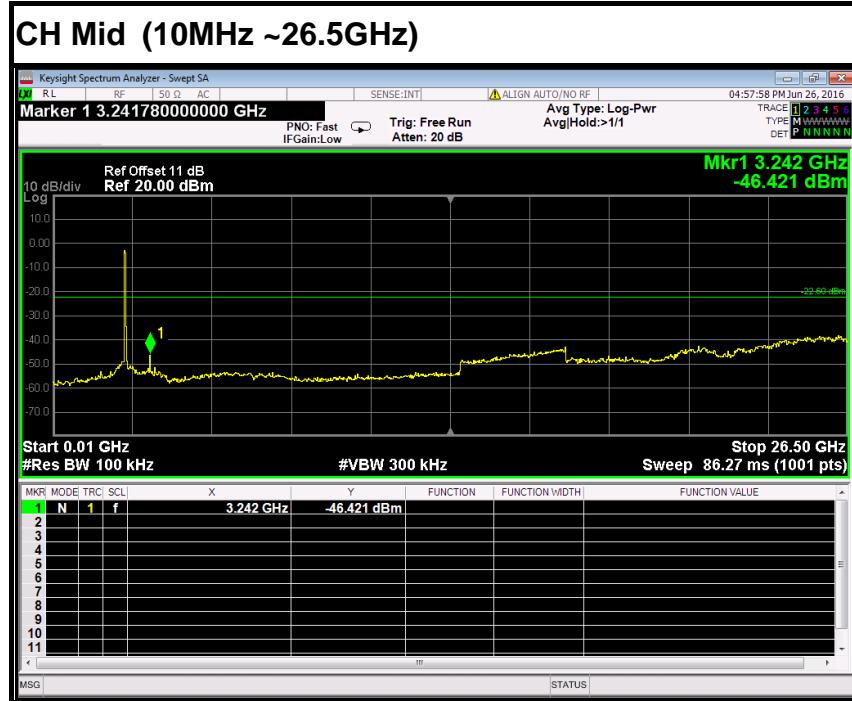
**CH High (10MHz ~26.5GHz)****CH High (2.45GHz ~2.5GHz)**

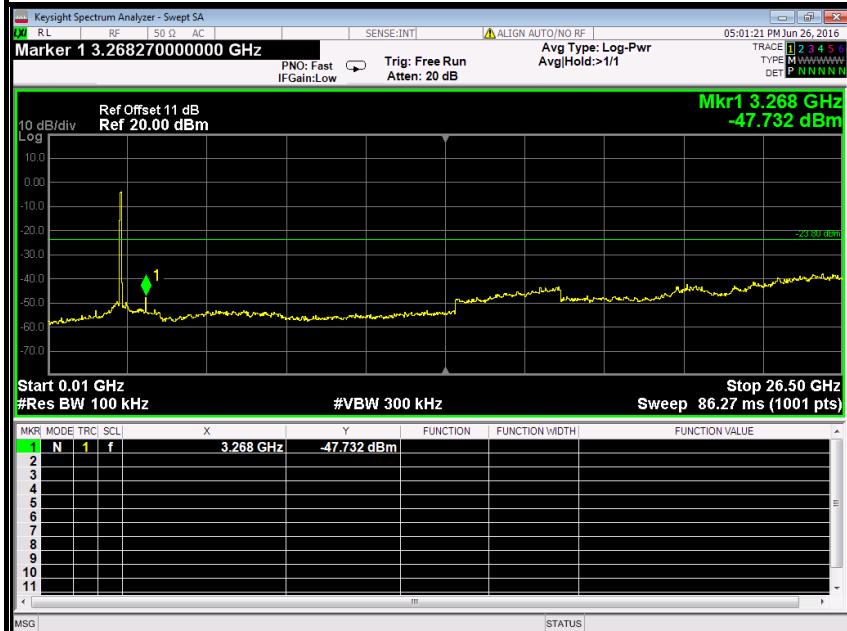
**IEEE 802.11n HT20 MHz mode (Antenna 1)****CH Low (10MHz ~26.5GHz)****CH Low (2.31GHz ~2.43GHz)**

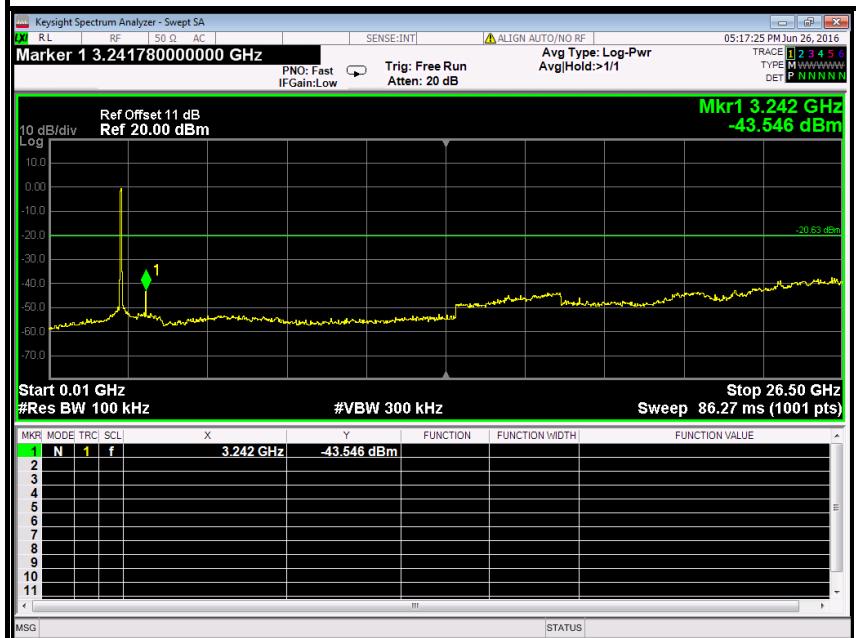
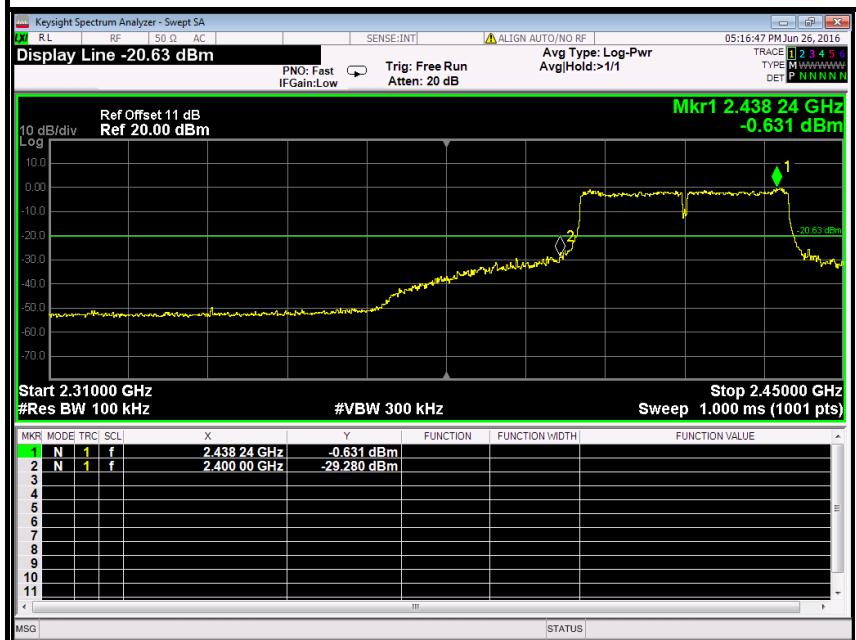


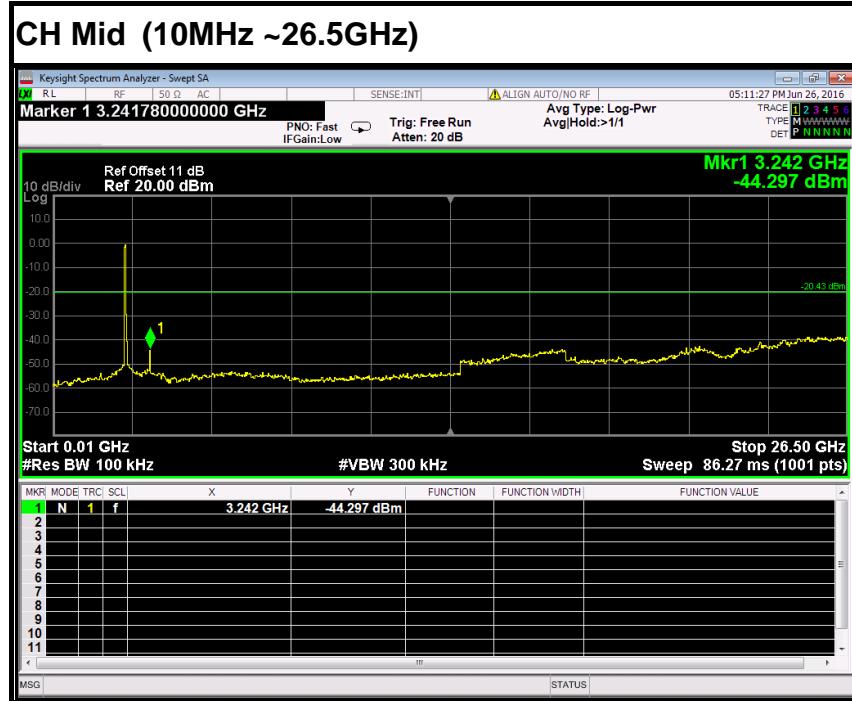
**CH High (10MHz ~26.5GHz)****CH High (2.45GHz ~2.5GHz)**

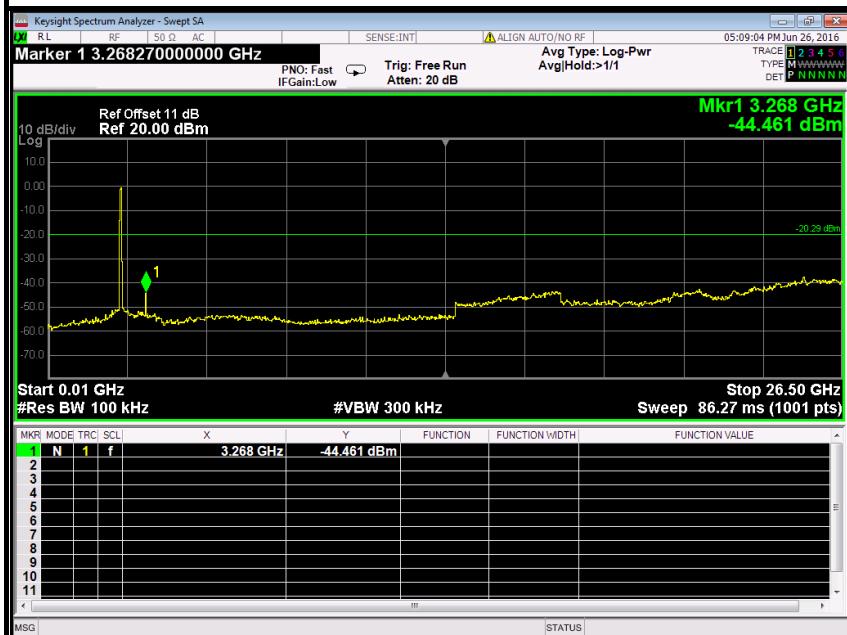
**IEEE 802.11n HT40 MHz mode (Antenna 0)****CH Low (10MHz ~26.5GHz)****CH Low (2.31GHz ~2.45GHz)**



**CH High (10MHz ~26.5GHz)****CH High (2.43GHz ~2.5GHz)**

**IEEE 802.11n HT40 MHz mode (Antenna 1)****CH Low (10MHz ~26.5GHz)****CH Low (2.31GHz ~2.45GHz)**



**CH High (10MHz ~26.5GHz)****CH High (2.43GHz ~2.5GHz)**



7.2.2. RADIATED EMISSIONS MEASUREMENT

7.2.2.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

1. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μ V/m at 3-meter)	Field Strength (dB μ V/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

NOTE:(1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dB μ V/m) = 20 log Emission level (μ V/m).



7.2.2.2. TEST INSTRUMENTS

Radiated Emission Test Site 966 (2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/20/2017
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017
Amplifier	EMEC	EM330	060661	03/18/2016	03/17/2017
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/20/2017
Loop Antenna	COM-POWER	AL-130	121044	09/25/2015	09/24/2016
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/20/2017
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2016	02/20/2017
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The FCC Site Registration number is 101879.
3. N.C.R = No Calibration Required.



7.2.2.3. TEST PROCEDURE (please refer to measurement standard)

1. The EUT is placed on a turntable, which is 0.8m or 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. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

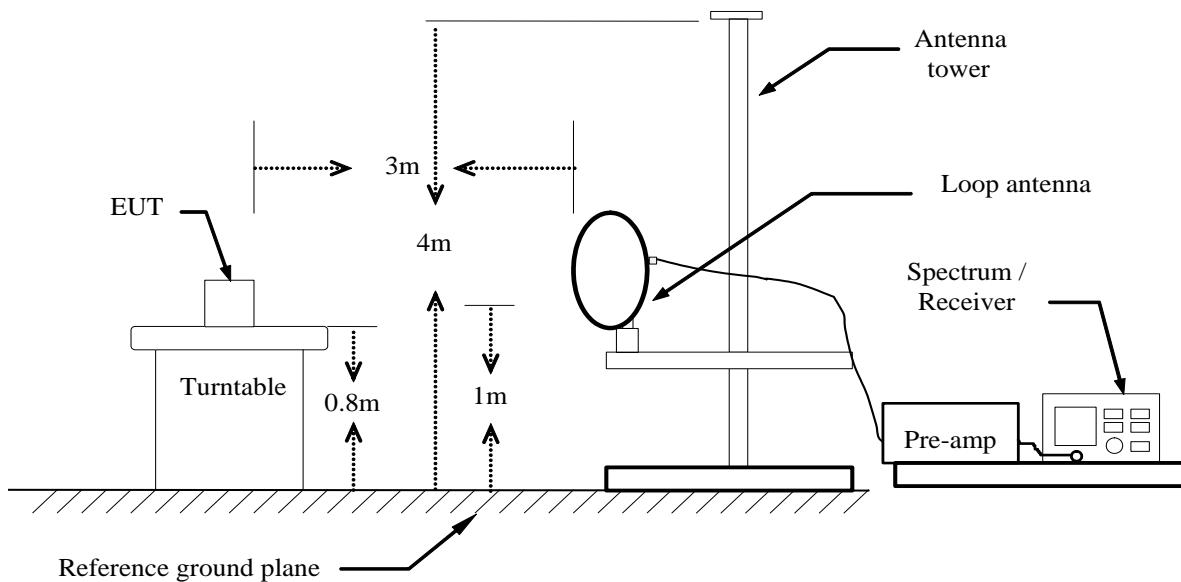
(a) PEAK: RBW=1MHz,VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=PEAK

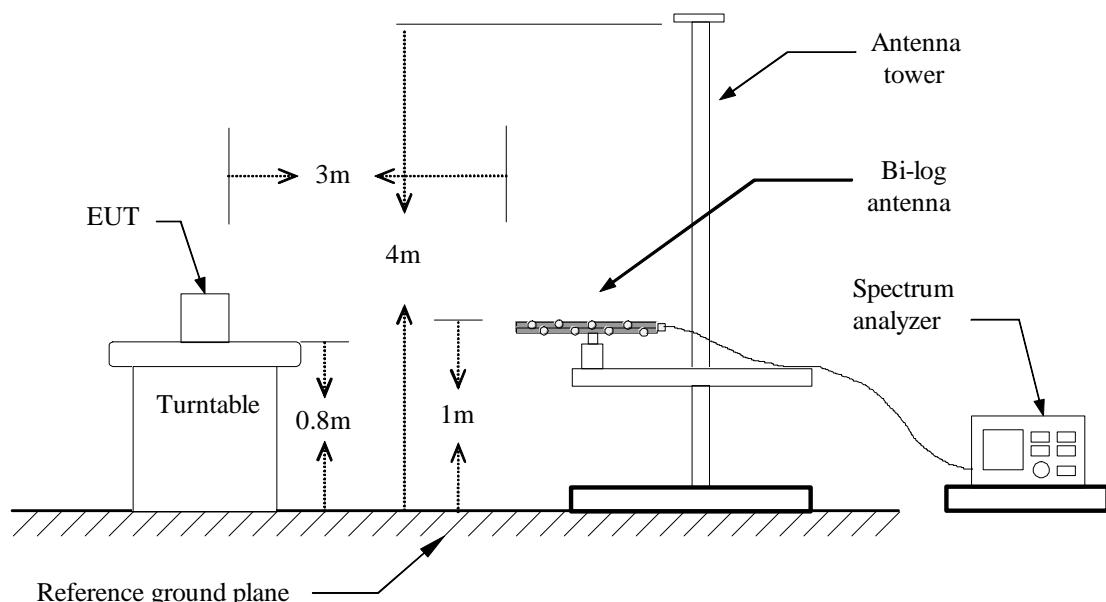
7. Repeat above procedures until the measurements for all frequencies
8. are complete.

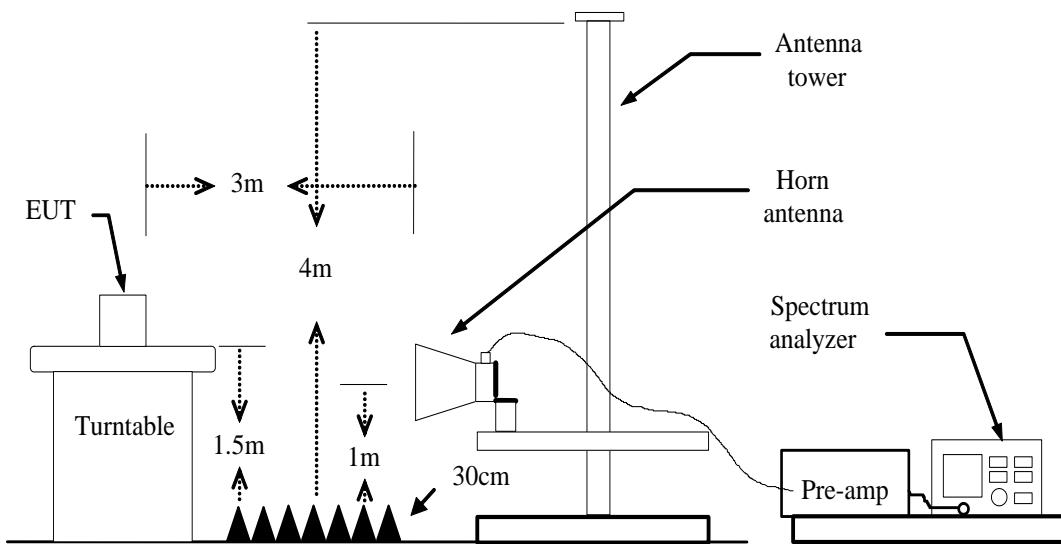
7.2.2.4. TEST SETUP

Below 30MHz



Below 1 GHz



Above 1 GHz

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



7.2.2.5. DATA SAMPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer / Receiver reading
 Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
 Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
 Limit (dBuV/m) = Limit stated in standard
 Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
 Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer / Receiver reading
 Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
 Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
 Limit (dBuV/m) = Limit stated in standard
 Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
 Peak = Peak Reading
 AVG = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limits (dBuV/m)
 Result (dBuV/m) = Reading (dBuV) + Correction Factor



7.2.2.6. TEST RESULTS

Below 1 GHz

Test Mode: TX

Tested by: Darry Wu

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: June 24, 2016

Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pole (V/H)	Remark
72.6800	53.98	-25.96	28.02	40.00	-11.98	V	QP
250.1900	52.14	-21.06	31.08	46.00	-14.92	V	QP
312.2700	53.28	-19.12	34.16	46.00	-11.84	V	QP
359.8000	50.30	-17.42	32.88	46.00	-13.12	V	QP
376.2900	55.42	-16.74	38.68	46.00	-7.32	V	QP
500.4500	49.57	-14.35	35.22	46.00	-10.78	V	QP
147.3700	50.63	-21.63	29.00	43.50	-14.50	H	QP
199.7500	57.79	-22.73	35.06	43.50	-8.44	H	QP
250.1900	56.32	-21.06	35.26	46.00	-10.74	H	QP
376.2900	57.23	-16.74	40.49	46.00	-5.51	H	QP
425.7600	50.82	-15.52	35.30	46.00	-10.70	H	QP
591.6300	46.28	-13.01	33.27	46.00	-12.73	H	QP

****Remark:** No emission found between lowest internal used/generated frequency to 30MHz.

Notes:

1. Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
2. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. The IF bandwidth of Receiver between 30MHz to 1GHz was 120kHz.
4. Frequency (MHz).
Reading (dB μ V/m)
Correction Factor (dB)
Limit (dB μ V/m)
Margin (dB)
Antenna Pol e(H/V) = Emission frequency in MHz
= Receiver reading
= Antenna factor + Cable loss – Amplifier gain
= Limit stated in standard
= Measured (dB μ V/m) – Limits (dB μ V/m)
= Current carrying line of reading

**Above 1 GHz****Antenna 0****Test Mode: TX / IEEE 802.11b(CH Low)****Tested by: Darry Wu****Ambient temperature: 24°C****Relative humidity: 52% RH****Date: June 24, 2016**

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1612.000	47.66	-6.67	40.99	74.00	-33.01	V	peak
2557.000	44.88	-2.16	42.72	74.00	-31.28	V	peak
3898.000	42.15	1.16	43.31	74.00	-30.69	V	peak
4825.000	53.14	4.41	57.55	74.00	-16.45	V	peak
4825.000	49.28	4.41	53.69	54.00	-0.31	V	AVG
5356.000	40.83	5.61	46.44	74.00	-27.56	V	peak
7237.000	47.96	8.16	56.12	74.00	-17.88	V	peak
7237.000	41.96	8.16	50.12	54.00	-3.88	V	AVG
1549.000	48.71	-6.79	41.92	74.00	-32.08	H	Peak
2827.000	43.70	-1.67	42.03	74.00	-31.97	H	Peak
4825.000	53.38	4.41	57.79	74.00	-16.21	H	Peak
4825.000	49.01	4.41	53.42	54.00	-0.58	H	AVG
7237.000	40.98	8.16	49.14	74.00	-24.86	H	peak
7435.000	40.66	8.55	49.21	74.00	-24.79	H	peak
7903.000	40.06	9.46	49.52	74.00	-24.48	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11b (CH Mid)**Tested by:** Darry Wu**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** June 24, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1378.000	46.82	-7.14	39.68	74.00	-34.32	V	Peak
1729.000	48.03	-6.42	41.61	74.00	-32.39	V	Peak
3313.000	43.03	-0.83	42.20	74.00	-31.80	V	Peak
4870.000	54.69	4.56	59.25	74.00	-14.75	V	Peak
4870.000	48.75	4.56	53.31	54.00	-0.69	V	AVG
6004.000	40.63	6.09	46.72	74.00	-27.28	V	Peak
8632.000	40.94	9.30	50.24	74.00	-23.76	V	Peak
1072.000	49.54	-8.28	41.26	74.00	-32.74	H	Peak
1549.000	48.71	-6.79	41.92	74.00	-32.08	H	Peak
2125.000	48.61	-4.31	44.30	74.00	-29.70	H	Peak
3250.000	48.21	-0.94	47.27	74.00	-26.73	H	Peak
4870.000	54.58	4.56	59.14	74.00	-14.86	H	Peak
4870.000	49.00	4.56	53.56	54.00	-0.44	H	AVG
7912.000	41.29	9.48	50.77	74.00	-23.23	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode: TX / IEEE 802.11b (CH High)****Tested by: Darry Wu****Ambient temperature: 24°C****Relative humidity: 52% RH****Date: June 27, 2016**

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2125.000	45.80	-4.31	41.49	74.00	-32.51	V	Peak
3286.000	43.84	-0.88	42.96	74.00	-31.04	V	Peak
4267.000	41.29	2.53	43.82	74.00	-30.18	V	Peak
4924.000	54.17	4.73	58.90	74.00	-15.10	V	Peak
4924.000	48.37	4.73	53.10	54.00	-0.90	V	AVG
5500.000	41.18	5.87	47.05	74.00	-26.95	V	Peak
7390.000	42.45	8.46	50.91	74.00	-23.09	V	Peak
<hr/>							
1072.000	49.47	-8.28	41.19	74.00	-32.81	H	Peak
1549.000	47.72	-6.79	40.93	74.00	-33.07	H	Peak
2116.000	46.11	-4.36	41.75	74.00	-32.25	H	Peak
3286.000	43.73	-0.88	42.85	74.00	-31.15	H	Peak
4924.000	49.20	4.73	53.93	74.00	-20.07	H	Peak
4924.000	45.46	4.73	50.19	54.00	-3.81	H	AVG
7552.000	40.84	8.78	49.62	74.00	-24.38	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Antenna 1****Test Mode:** TX / IEEE 802.11b(CH Low)**Tested by:** Darry Wu**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1144.000	47.34	-8.00	39.34	74.00	-34.66	V	peak
1738.000	47.52	-6.40	41.12	74.00	-32.88	V	peak
3196.000	45.63	-1.03	44.60	74.00	-29.40	V	peak
4798.000	48.42	4.32	52.74	74.00	-21.26	V	peak
6121.000	40.89	6.28	47.17	74.00	-26.83	V	peak
7201.000	40.87	8.09	48.96	74.00	-25.04	V	peak
1072.000	50.61	-8.28	42.33	74.00	-31.67	H	Peak
1549.000	46.97	-6.79	40.18	74.00	-33.82	H	Peak
2125.000	44.74	-4.31	40.43	74.00	-33.57	H	Peak
3196.000	51.32	-1.03	50.29	74.00	-23.71	H	peak
4798.000	51.14	4.32	55.46	74.00	-18.54	H	peak
4798.000	48.97	4.32	53.29	54.00	-0.71	H	AVG
7201.000	43.69	8.09	51.78	74.00	-22.22	H	peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11b (CH Mid)**Tested by:** Darry Wu**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1738.000	48.81	-6.40	42.41	74.00	-31.59	V	Peak
2125.000	45.71	-4.31	41.40	74.00	-32.60	V	Peak
3241.000	46.95	-0.96	45.99	74.00	-28.01	V	Peak
4861.000	51.38	4.53	55.91	74.00	-18.09	V	Peak
4861.000	48.66	4.53	53.19	54.00	-0.81	V	AVG
6103.000	40.98	6.25	47.23	74.00	-26.77	V	Peak
6958.000	40.87	7.63	48.50	74.00	-25.50	V	Peak
1072.000	49.65	-8.28	41.37	74.00	-32.63	H	Peak
1549.000	47.10	-6.79	40.31	74.00	-33.69	H	Peak
3241.000	49.26	-0.96	48.30	74.00	-25.70	H	Peak
4861.000	50.71	4.53	55.24	74.00	-18.76	H	Peak
4861.000	48.82	4.53	53.35	54.00	-0.65	H	AVG
7291.000	41.88	8.27	50.15	74.00	-23.85	H	Peak
7885.000	40.35	9.43	49.78	74.00	-24.22	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11b (CH High)**Tested by:** Darry Wu**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1927.000	44.62	-5.46	39.16	74.00	-34.84	V	Peak
3286.000	46.50	-0.88	45.62	74.00	-28.38	V	Peak
3997.000	42.23	1.58	43.81	74.00	-30.19	V	Peak
4924.000	50.26	4.73	54.99	74.00	-19.01	V	Peak
4924.000	44.63	4.73	49.36	54.00	-4.64	V	AVG
6076.000	40.70	6.20	46.90	74.00	-27.10	V	Peak
7390.000	41.17	8.46	49.63	74.00	-24.37	V	Peak
1072.000	50.39	-8.28	42.11	74.00	-31.89	H	Peak
1549.000	48.70	-6.79	41.91	74.00	-32.09	H	Peak
3286.000	48.03	-0.88	47.15	74.00	-26.85	H	Peak
4924.000	50.64	4.73	55.37	74.00	-18.63	H	Peak
4924.000	48.29	4.73	53.02	54.00	-0.98	H	AVG
6157.000	41.11	6.33	47.44	74.00	-26.56	H	Peak
7381.000	43.30	8.44	51.74	74.00	-22.26	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Antenna 0****Test Mode: TX / IEEE 802.11g(CH Low)****Tested by: Darry Wu****Ambient temperature: 24°C Relative humidity: 52% RH****Date: June 27, 2016**

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1738.000	48.36	-6.40	41.96	74.00	-32.04	V	Peak
3196.000	44.94	-1.03	43.91	74.00	-30.09	V	Peak
3925.000	42.02	1.27	43.29	74.00	-30.71	V	Peak
4816.000	54.52	4.38	58.90	74.00	-15.10	V	AVG
4816.000	48.82	4.38	53.20	54.00	-0.80	V	Peak
5653.000	40.61	5.93	46.54	74.00	-27.46	V	Peak
7201.000	47.94	8.09	56.03	74.00	-17.97	V	Peak
7201.000	39.17	8.09	47.26	54.00	-6.74	V	AVG
1072.000	49.79	-8.28	41.51	74.00	-32.49	H	Peak
1549.000	48.70	-6.79	41.91	74.00	-32.09	H	Peak
3196.000	48.84	-1.03	47.81	74.00	-26.19	H	Peak
4807.000	53.56	4.35	57.91	74.00	-16.09	H	Peak
4807.000	49.06	4.35	53.41	54.00	-0.59	H	AVG
6220.000	40.83	6.44	47.27	74.00	-26.73	H	Peak
7201.000	47.99	8.09	56.08	74.00	-17.92	H	Peak
7201.000	44.60	8.09	52.69	54.00	-1.31	H	AVG

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode: TX / IEEE 802.11g (CH Mid)****Tested by: Darry Wu****Ambient temperature: 24°C****Relative humidity: 52% RH****Date: June 27, 2016**

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1378.0000	46.80	-7.14	39.66	74.00	-34.34	V	Peak
3277.0000	44.89	-0.89	44.00	74.00	-30.00	V	Peak
4924.0000	55.52	4.73	60.25	74.00	-13.75	V	Peak
4924.0000	48.43	4.73	53.16	54.00	-0.84	V	AVG
5689.0000	40.90	5.95	46.85	74.00	-27.15	V	Peak
7381.0000	48.17	8.44	56.61	74.00	-17.39	V	Peak
7381.0000	43.18	8.44	51.62	54.00	-2.38	V	AVG
8002.0000	40.61	9.65	50.26	74.00	-23.74	V	Peak
1549.000	48.36	-6.79	41.57	74.00	-32.43	H	Peak
4186.000	40.59	2.24	42.83	74.00	-31.17	H	Peak
4924.000	54.01	4.73	58.74	74.00	-15.26	H	Peak
4924.000	48.20	4.73	52.93	54.00	-1.07	H	AVG
6202.000	39.92	6.41	46.33	74.00	-27.67	H	Peak
7237.000	39.67	8.16	47.83	74.00	-26.17	H	Peak
7390.000	47.96	8.46	56.42	74.00	-17.58	H	Peak
7390.000	43.71	8.46	52.17	54.00	-1.83	H	AVG

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11g (CH High)**Tested by:** Darry Wu**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1072.000	48.43	-8.28	40.15	74.00	-33.85	V	Peak
1738.000	47.40	-6.40	41.00	74.00	-33.00	V	Peak
3277.000	43.95	-0.89	43.06	74.00	-30.94	V	Peak
4924.000	55.21	4.73	59.94	74.00	-14.06	V	Peak
4924.000	48.35	4.73	53.08	54.00	-0.92	V	AVG
7372.000	50.68	8.43	59.11	74.00	-14.89	V	Peak
7372.000	44.62	8.43	53.05	54.00	-0.95	V	AVG
8002.000	43.40	9.65	53.05	74.00	-20.95	V	Peak
1549.000	48.34	-6.79	41.55	74.00	-32.45	H	Peak
3277.000	46.32	-0.89	45.43	74.00	-28.57	H	Peak
4924.000	56.18	4.73	60.91	74.00	-13.09	H	Peak
4924.000	48.64	4.73	53.37	54.00	-0.63	H	AVG
6175.000	41.91	6.36	48.27	74.00	-25.73	H	Peak
7372.000	50.08	8.43	58.51	74.00	-15.49	H	Peak
7372.000	44.03	8.43	52.46	54.00	-1.54	H	AVG
7786.000	43.23	9.23	52.46	74.00	-21.54	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Antenna 1****Test Mode:** TX / IEEE 802.11g(CH Low)**Tested by:** Darry Wu**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1738.000	48.15	-6.40	41.75	74.00	-32.25	V	Peak
3196.000	47.28	-1.03	46.25	74.00	-27.75	V	Peak
4798.000	47.92	4.32	52.24	74.00	-21.76	V	Peak
5815.000	41.17	6.00	47.17	74.00	-26.83	V	Peak
6085.000	41.47	6.22	47.69	74.00	-26.31	V	Peak
7201.000	47.21	8.09	55.30	74.00	-18.70	V	Peak
7201.000	44.70	8.09	52.79	54.00	-1.21	V	AVG
1072.000	48.58	-8.28	40.30	74.00	-33.70	H	Peak
1549.000	47.65	-6.79	40.86	74.00	-33.14	H	Peak
3196.000	51.14	-1.03	50.11	74.00	-23.89	H	Peak
4798.000	51.22	4.32	55.54	74.00	-18.46	H	Peak
4798.000	47.64	4.32	51.96	54.00	-2.04	H	AVG
5212.000	40.97	5.36	46.33	74.00	-27.67	H	Peak
7201.000	47.58	8.09	55.67	74.00	-18.33	H	Peak
7201.000	44.70	8.09	52.79	54.00	-1.21	H	AVG

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11g (CH Mid)**Tested by:** Darry Wu**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1585.000	46.33	-6.73	39.60	74.00	-34.40	V	Peak
2125.000	46.10	-4.31	41.79	74.00	-32.21	V	Peak
2431.000	44.53	-2.64	41.89	74.00	-32.11	V	Peak
3241.000	46.26	-0.96	45.30	74.00	-28.70	V	Peak
4861.000	47.13	4.53	51.66	74.00	-22.34	V	Peak
7291.000	49.30	8.27	57.57	74.00	-16.43	V	Peak
7291.000	44.64	8.27	52.91	54.00	-1.09	V	AVG
1072.000	49.47	-8.28	41.19	74.00	-32.81	H	Peak
1621.000	49.39	-6.65	42.74	74.00	-31.26	H	Peak
3241.000	48.62	-0.96	47.66	74.00	-26.34	H	Peak
4042.000	42.78	1.74	44.52	74.00	-29.48	H	Peak
4861.000	49.20	4.53	53.73	74.00	-20.27	H	Peak
7291.000	50.43	8.27	58.70	74.00	-15.30	H	Peak
7291.000	44.68	8.27	52.95	54.00	-1.05	H	AVG

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11g (CH High)**Tested by:** Darry Wu**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2071.000	45.53	-4.61	40.92	74.00	-33.08	V	Peak
2863.000	43.70	-1.61	42.09	74.00	-31.91	V	Peak
3277.000	46.47	-0.89	45.58	74.00	-28.42	V	Peak
4420.000	41.48	3.07	44.55	74.00	-29.45	V	Peak
4915.000	46.33	4.70	51.03	74.00	-22.97	V	Peak
7381.000	47.41	8.44	55.85	74.00	-18.15	V	Peak
7381.000	44.72	8.44	53.16	54.00	-0.84	V	AVG
1072.000	50.53	-8.28	42.25	74.00	-31.75	H	Peak
1639.000	48.35	-6.62	41.73	74.00	-32.27	H	Peak
3277.000	49.30	-0.89	48.41	74.00	-25.59	H	Peak
4924.000	46.31	4.73	51.04	74.00	-22.96	H	Peak
5761.000	41.72	5.98	47.70	74.00	-26.30	H	Peak
7390.000	46.03	8.46	54.49	74.00	-19.51	H	Peak
7390.000	44.79	8.46	53.25	54.00	-0.75	H	AVG

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Combine with Antenna 0 and Antenna 1****Test Mode:** TX / IEEE 802.11n HT20 MHz (CH Low)**Tested by:** Darry Wu**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1738.000	46.74	-6.40	40.34	74.00	-33.66	V	Peak
2161.000	46.81	-4.12	42.69	74.00	-31.31	V	Peak
2566.000	45.29	-2.14	43.15	74.00	-30.85	V	Peak
3214.000	47.97	-1.00	46.97	74.00	-27.03	V	Peak
4816.000	51.45	4.38	55.83	74.00	-18.17	V	Peak
4816.000	48.47	4.38	52.85	54.00	-1.15	V	AVG
7228.000	45.06	8.14	53.20	74.00	-20.80	V	Peak
7228.000	43.22	8.14	51.36	54.00	-2.64	V	AVG
1702.000	48.44	-6.48	41.96	74.00	-32.04	H	Peak
3214.000	50.65	-1.00	49.65	74.00	-24.35	H	Peak
4825.000	53.03	4.41	57.44	74.00	-16.56	H	Peak
4825.000	48.56	4.41	52.97	54.00	-1.03	H	AVG
5176.000	45.28	5.29	50.57	74.00	-23.43	H	Peak
5806.000	41.21	6.00	47.21	74.00	-26.79	H	Peak
7237.000	46.74	8.16	54.90	74.00	-19.10	H	Peak
7237.000	42.12	8.16	50.28	54.00	-3.72	H	AVG

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “N/A” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT20 MHz (CH Mid)**Tested by:** Darry Wu**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2134.000	46.16	-4.27	41.89	74.00	-32.11	V	Peak
2539.000	45.17	-2.19	42.98	74.00	-31.02	V	Peak
4105.000	41.37	1.96	43.33	74.00	-30.67	V	Peak
4870.000	51.25	4.56	55.81	74.00	-18.19	V	Peak
4870.000	48.62	4.56	53.18	54.00	-0.82	V	AVG
6832.000	41.41	7.43	48.84	74.00	-25.16	V	Peak
7318.000	47.27	8.32	55.59	74.00	-18.41	V	Peak
7318.000	43.37	8.32	51.69	54.00	-2.31	V	AVG
1621.000	47.22	-6.65	40.57	74.00	-33.43	H	Peak
1738.000	49.68	-6.40	43.28	74.00	-30.72	H	Peak
3250.000	49.21	-0.94	48.27	74.00	-25.73	H	Peak
4870.000	50.58	4.56	55.14	74.00	-18.86	H	Peak
4870.000	48.45	4.56	53.01	54.00	-0.99	H	AVG
6157.000	40.84	6.33	47.17	74.00	-26.83	H	Peak
7291.000	46.84	8.27	55.11	74.00	-18.89	H	Peak
7291.000	44.47	8.27	52.74	54.00	-1.26	H	AVG
4798.000	47.42	4.32	51.74	54.00	-2.26	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / EEE 802.11n HT20 MHz (CH High)**Tested by:** Darry Wu**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1729.000	48.25	-6.42	41.83	74.00	-32.17	V	Peak
2458.000	46.74	-2.49	44.25	74.00	-29.75	V	Peak
3286.000	46.60	-0.88	45.72	74.00	-28.28	V	Peak
4933.000	48.43	4.76	53.19	74.00	-20.81	V	Peak
5995.000	41.45	6.08	47.53	74.00	-26.47	V	Peak
7372.000	49.50	8.43	57.93	74.00	-16.07	V	Peak
7372.000	44.50	8.43	52.93	54.00	-1.07	V	AVG
1639.000	47.92	-6.62	41.30	74.00	-32.70	H	Peak
3034.000	43.42	-1.30	42.12	74.00	-31.88	H	Peak
3286.000	45.78	-0.88	44.90	74.00	-29.10	H	Peak
4924.000	46.59	4.73	51.32	74.00	-22.68	H	Peak
7372.000	46.96	8.43	55.39	74.00	-18.61	H	Peak
7372.000	44.63	8.43	53.06	54.00	-0.94	H	AVG
7588.000	41.36	8.85	50.21	74.00	-23.79	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Combine with Antenna 0 and Antenna 1****Test Mode:** TX/ IEEE 802.11n HT40 MHz (CH Low)**Tested by:** Darry Wu**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3232.000	46.79	-0.97	45.82	74.00	-28.18	V	Peak
4843.000	49.93	4.47	54.40	74.00	-19.60	V	Peak
4843.000	48.57	4.47	53.04	54.00	-0.96	V	AVG
5176.000	47.20	5.29	52.49	74.00	-21.51	V	Peak
5446.000	41.53	5.77	47.30	74.00	-26.70	V	Peak
6202.000	41.04	6.41	47.45	74.00	-26.55	V	Peak
7264.000	44.40	8.21	52.61	74.00	-21.39	V	Peak
<hr/>							
1702.000	48.06	-6.48	41.58	74.00	-32.42	H	Peak
3232.000	49.36	-0.97	48.39	74.00	-25.61	H	Peak
4843.000	47.95	4.47	52.42	74.00	-21.58	H	Peak
5185.000	49.50	5.31	54.81	74.00	-19.19	H	Peak
5185.000	47.55	5.31	52.86	54.00	-1.14	H	AVG
7246.000	42.71	8.18	50.89	74.00	-23.11	H	Peak
7759.000	40.53	9.18	49.71	74.00	-24.29	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT40 MHz (CH Mid)**Tested by:** Darry Wu**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1297.000	46.88	-7.44	39.44	74.00	-34.56	V	Peak
1729.000	50.10	-6.42	43.68	74.00	-30.32	V	Peak
3250.000	46.70	-0.94	45.76	74.00	-28.24	V	Peak
4870.000	47.50	4.56	52.06	74.00	-21.94	V	Peak
5185.000	49.88	5.31	55.19	74.00	-18.81	V	Peak
5185.000	47.48	5.31	52.79	54.00	-1.21	V	AVG
7318.000	43.96	8.32	52.28	74.00	-21.72	V	Peak
1333.000	47.32	-7.30	40.02	74.00	-33.98	H	Peak
1747.000	56.16	-6.38	49.78	74.00	-24.22	H	Peak
2827.000	45.26	-1.67	43.59	74.00	-30.41	H	Peak
3250.000	47.40	-0.94	46.46	74.00	-27.54	H	Peak
4879.000	49.44	4.59	54.03	74.00	-19.97	H	Peak
4879.000	48.37	4.59	52.96	54.00	-1.04	H	AVG
7318.000	44.14	8.32	52.46	74.00	-21.54	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX/ IEEE 802.11n HT40 MHz (CH High)**Tested by:** Darry Wu**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** June 27, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2800.000	44.55	-1.72	42.83	74.00	-31.17	V	Peak
3268.000	47.45	-0.91	46.54	74.00	-27.46	V	Peak
3646.000	43.10	0.10	43.20	74.00	-30.80	V	Peak
4879.000	46.71	4.59	51.30	74.00	-22.70	V	Peak
7363.000	46.04	8.41	54.45	74.00	-19.55	V	Peak
7363.000	44.56	8.41	52.97	54.00	-1.03	V	AVG
7768.000	41.15	9.20	50.35	74.00	-23.65	V	Peak
1738.000	49.93	-6.40	43.53	74.00	-30.47	H	Peak
3268.000	46.91	-0.91	46.00	74.00	-28.00	H	Peak
4906.000	47.20	4.67	51.87	74.00	-22.13	H	Peak
5185.000	43.31	5.31	48.62	74.00	-25.38	H	Peak
7372.000	46.92	8.43	55.35	74.00	-18.65	H	Peak
7372.000	44.48	8.43	52.91	54.00	-1.09	H	AVG
7795.000	41.11	9.25	50.36	74.00	-23.64	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



7.3. 6dB BANDWIDTH MEASUREMENT

7.3.1. LIMITS

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz.

7.3.2. TEST INSTRUMENTS

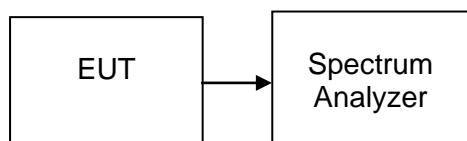
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017

7.3.3. TEST PROCEDURES (please refer to measurement standard)

8.1 Option 1:

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

7.3.4. TEST SETUP





7.3.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2412	10100	10090	>500	PASS
Mid	2437	10100	10100		PASS
High	2462	10090	10100		PASS

Test mode: IEEE 802.11g

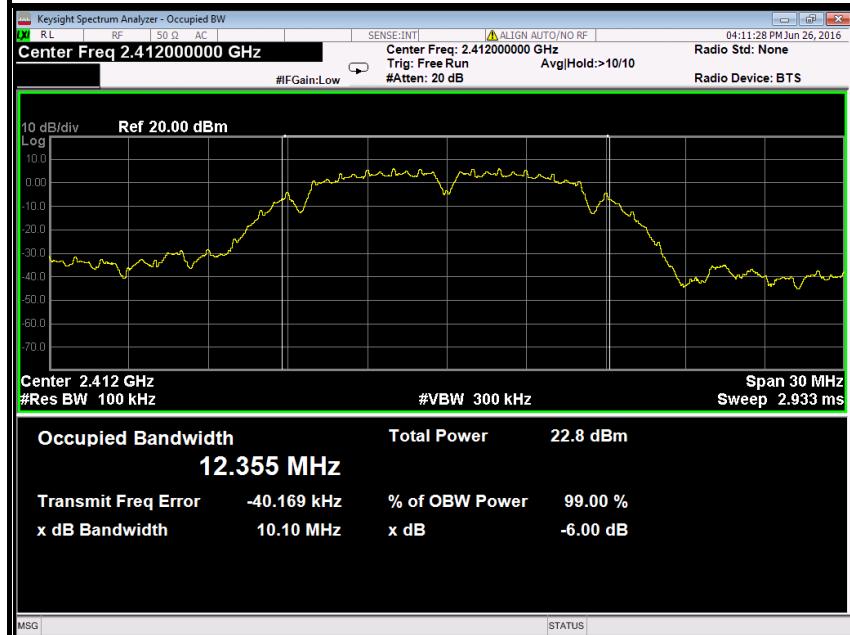
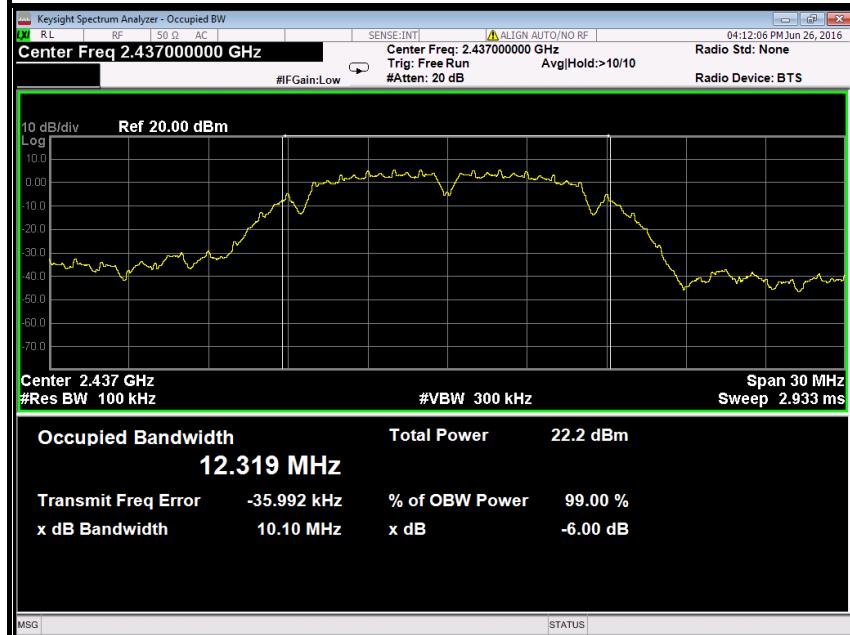
Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2412	16620	16620	>500	PASS
Mid	2437	16600	16600		PASS
High	2462	16610	16590		PASS

Test mode: IEEE 802.11n HT20 MHz

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2412	17790	17730	>500	PASS
Mid	2437	17740	17760		PASS
High	2462	17790	17740		PASS

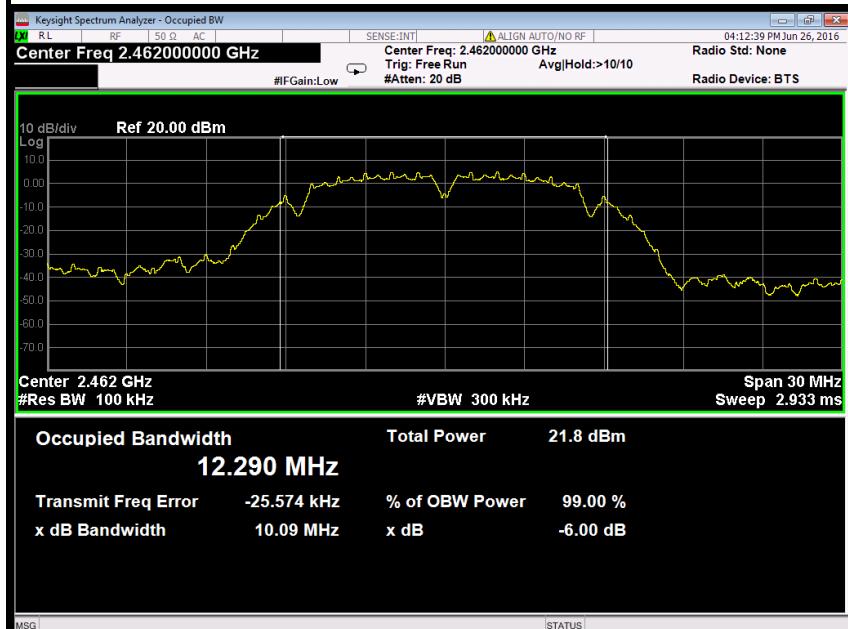
Test mode: IEEE 802.11n HT40 MHz

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2422	36560	36530	>500	PASS
Mid	2437	36570	36540		PASS
High	2452	36550	36540		PASS

**Test Plot****IEEE 802.11b mode (Antenna 0)****6dB Bandwidth (CH Low)****6dB Bandwidth (CH Mid)**

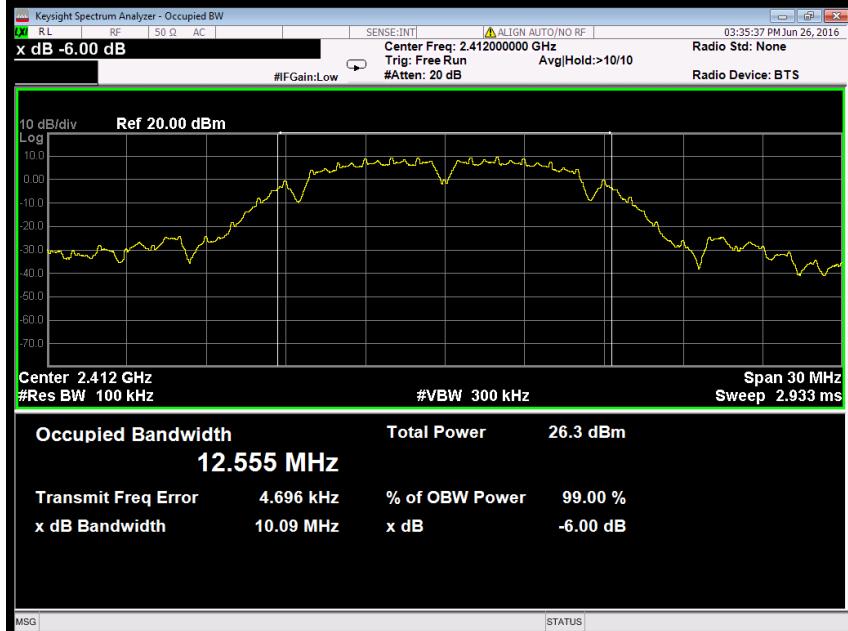


6dB Bandwidth (CH High)



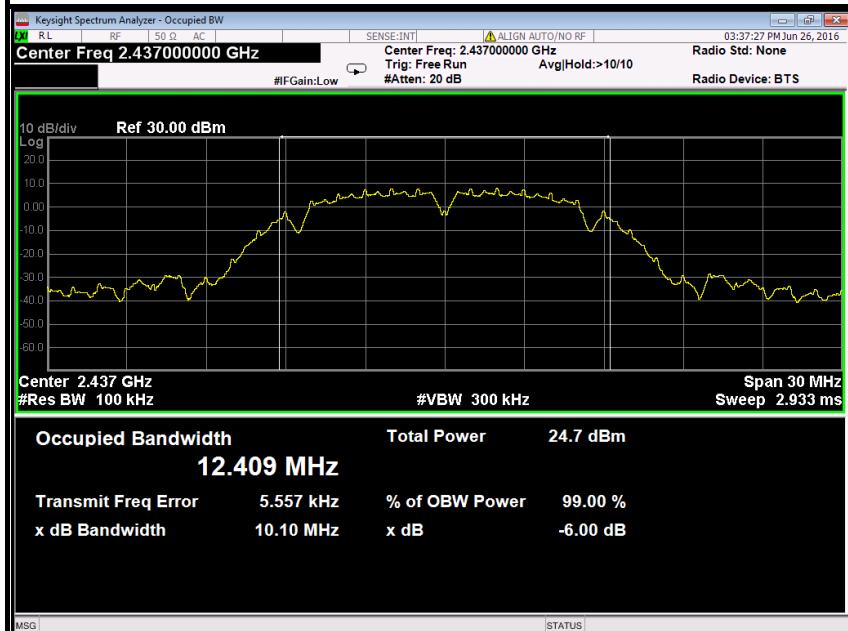
IEEE 802.11b mode (Antenna 1)

6dB Bandwidth (CH Low)

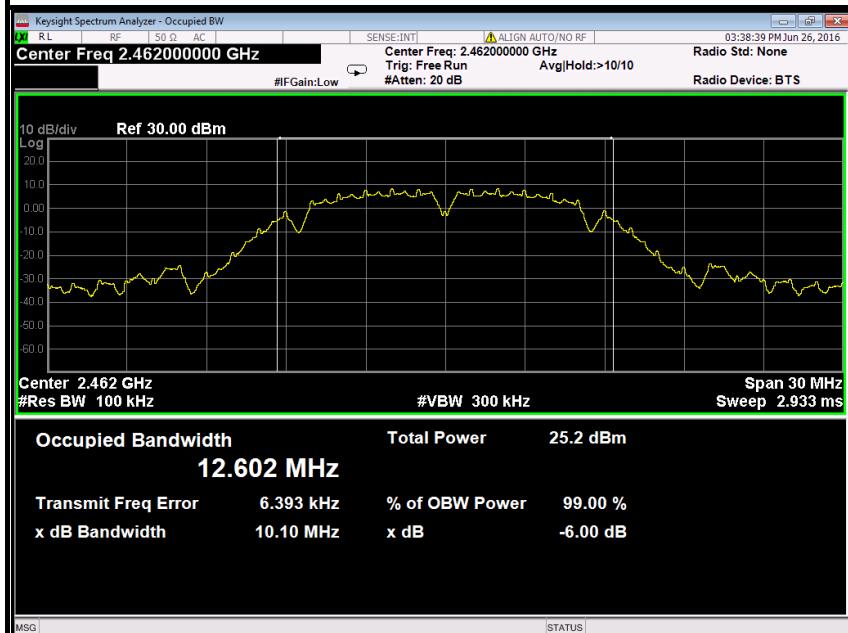


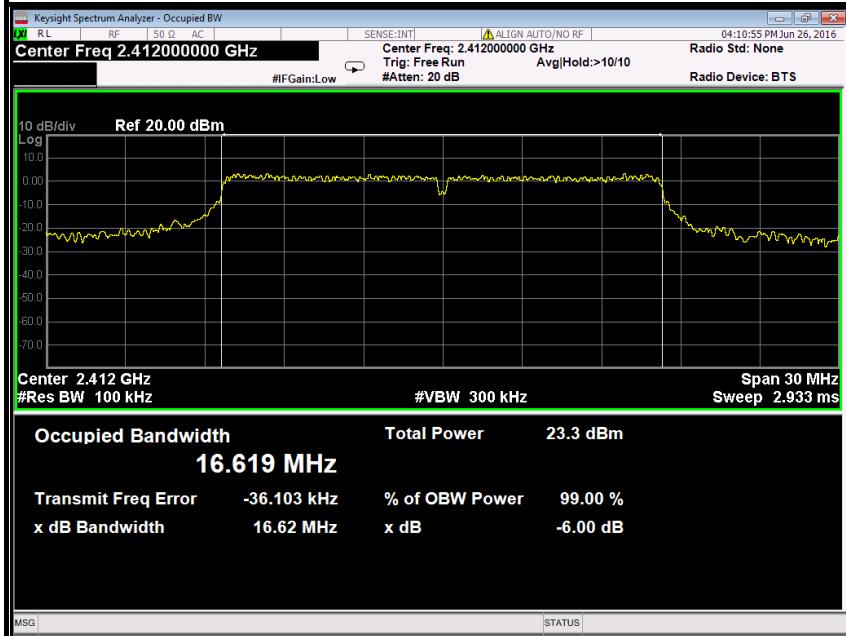


6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



**IEEE 802.11g mode (Antenna 0)****6dB Bandwidth (CH Low)****6dB Bandwidth (CH Mid)**