



FCC RF Test Report

APPLICANT : Lenovo(Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT : Portable Tablet Computer
BRAND NAME : Lenovo
MODEL NAME : Lenovo TB-7306V
FCC ID : O57TB7306V
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Apr. 01, 2020 and testing was completed on Jun. 12, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 3.28 dB at 5725.400 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.51 dB at 0.157 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.
Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

1.2 Manufacturer

Lenovo PC HK Limited
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo TB-7306V
FCC ID	O57TB7306V
EUT supports Radios application	GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR/EDR/LE FM Receiver and GNSS
IMEI Code	Conducted : N/A Conduction : 860175050001634 Radiation : N/A
HW Version	Lenovo Tablet TB-7306V
SW Version	TB-7306V_RF01_200620
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT, the product equality declaration is exhibited separately. According to the difference, the sample 1 to perform full test.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> 802.11a : 15.32 dBm / 0.0340 W 802.11n HT20 : 15.09 dBm / 0.0323 W 802.11n HT40 : 13.82 dBm / 0.0241 W <5260 MHz ~ 5320 MHz> 802.11a : 14.82 dBm / 0.0303 W 802.11n HT20 : 14.77 dBm / 0.0300 W 802.11n HT40 : 13.44 dBm / 0.0221 W <5500 MHz ~ 5720 MHz > 802.11a : 14.79 dBm / 0.0301 W 802.11n HT20 : 14.65 dBm / 0.0292 W 802.11n HT40 : 13.16 dBm / 0.0207 W
99% Occupied Bandwidth	<5180 MHz ~ 5240 MHz> 802.11a : 17.88 MHz 802.11n HT20 : 18.38 MHz 802.11n HT40 : 36.56 MHz <5260 MHz ~ 5320 MHz> 802.11a : 17.93 MHz 802.11n HT20 : 18.58 MHz 802.11n HT40 : 36.26 MHz <5500 MHz ~ 5720 MHz > 802.11a : 21.53 MHz 802.11n HT20 : 20.48 MHz 802.11n HT40 : 37.16 MHz
Antenna Type / Gain	<5180 MHz ~ 5240 MHz> PIFA Antenna with gain -1.10 dBi <5260 MHz ~ 5320 MHz> PIFA Antenna with gain -1.10 dBi <5500 MHz ~ 5720 MHz > PIFA Antenna with gain -1.10 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH06-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	-	-	134*	5670
	108	5540	136	5680
	110*	5550	140	5700



Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	-	-	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	-	-	144	5720
	142*	5710		

Note: The above Frequency and Channel in "*" were 802.11n HT40.



2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM 850 Idle + Bluetooth Link + WLAN Link(5G) + Earphone 1+ USB Cable (Charging from Adapter 1) + Battery 1
Remark: For Radiated Test Cases, The tests were performance with Adapter1, Earphone1 and USB Cable1.	

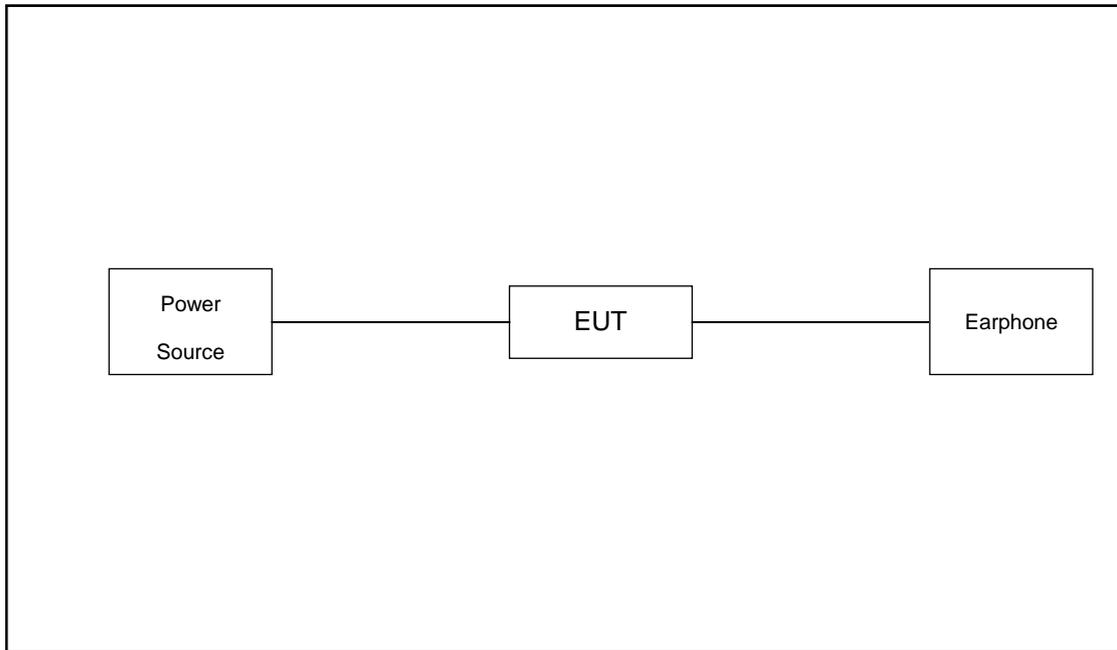
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

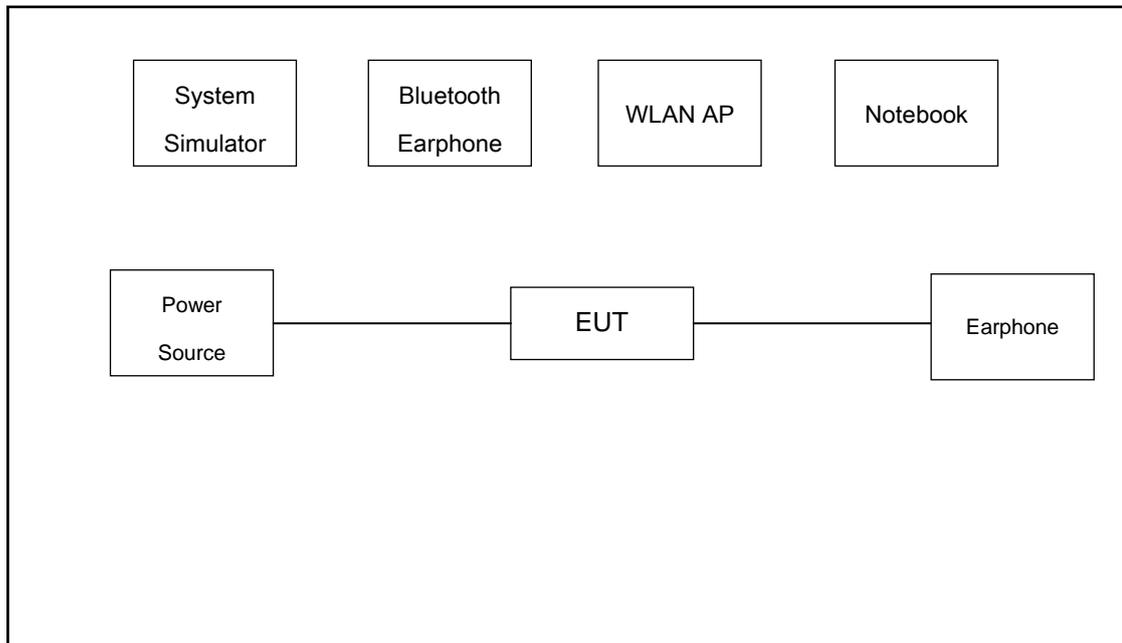
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

2.3 Connection Diagram of Test System

For Radiation



For Conducted Emission





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
5.	SD Card	Kingston	8GB	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 7.0 dB.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\
 &= 7.0 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

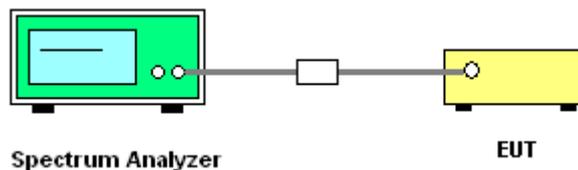
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

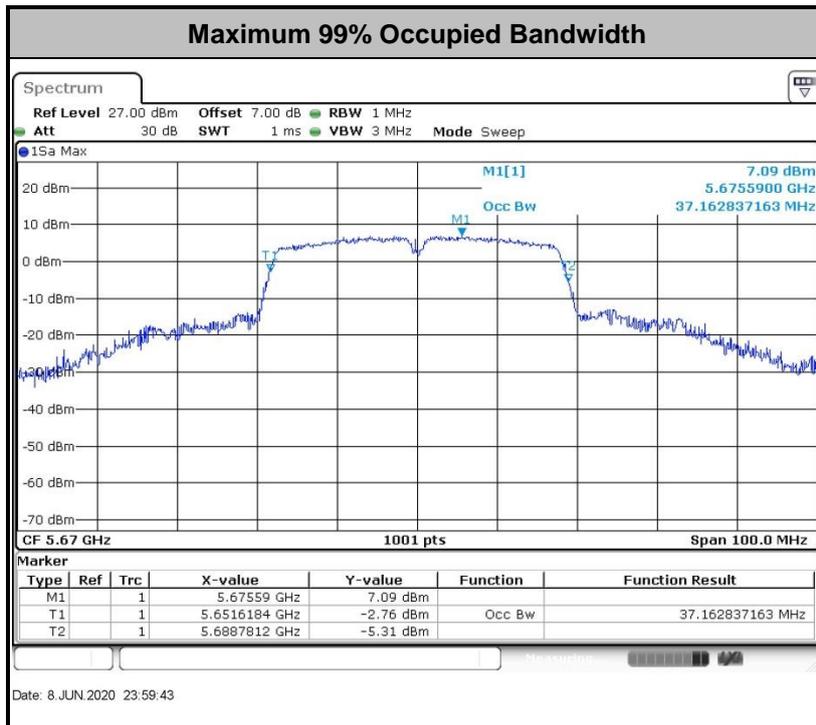
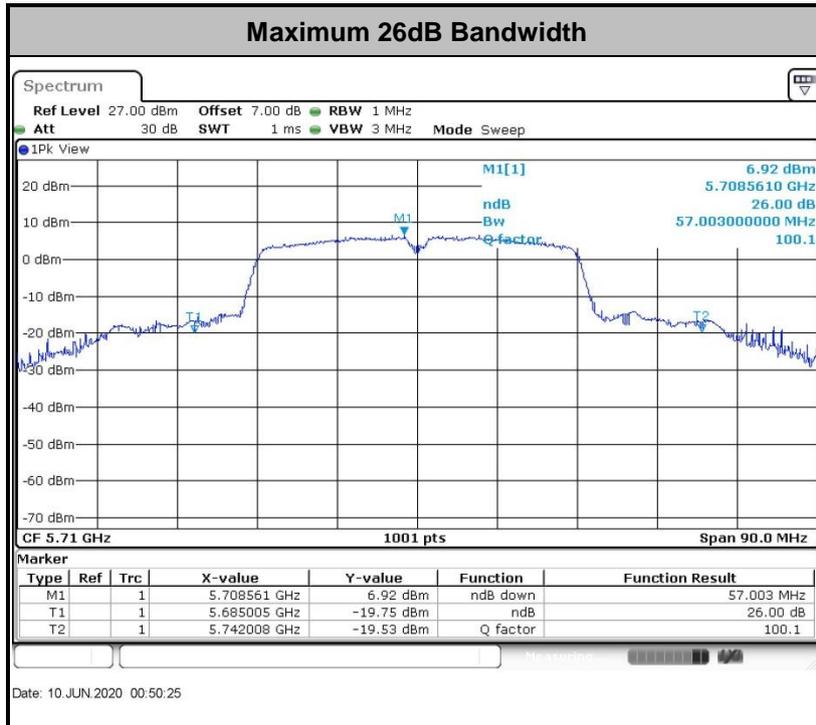
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 + 10 \log B$, dBm, where B is the 26 dB emission bandwidth in megahertz.

For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



3.2.3 Test Procedures

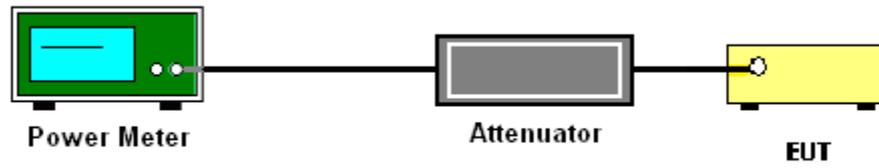
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

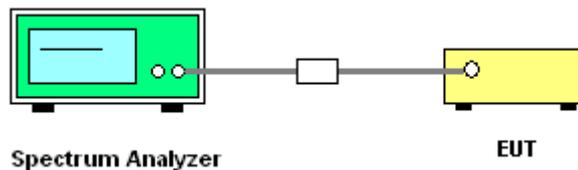
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

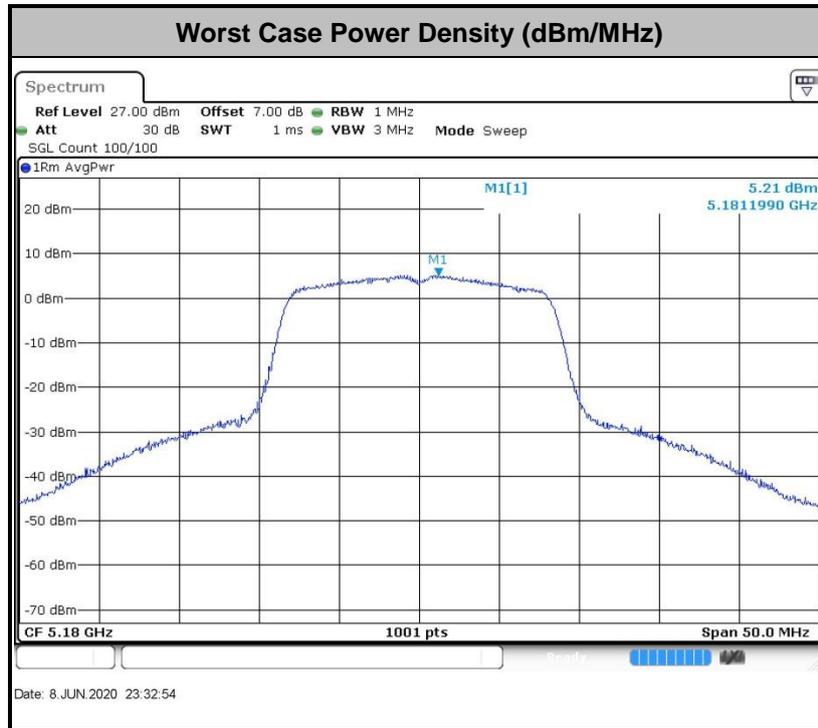
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



Note: Average Power Density (dB) = Measured value+ Duty Factor



3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
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



EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

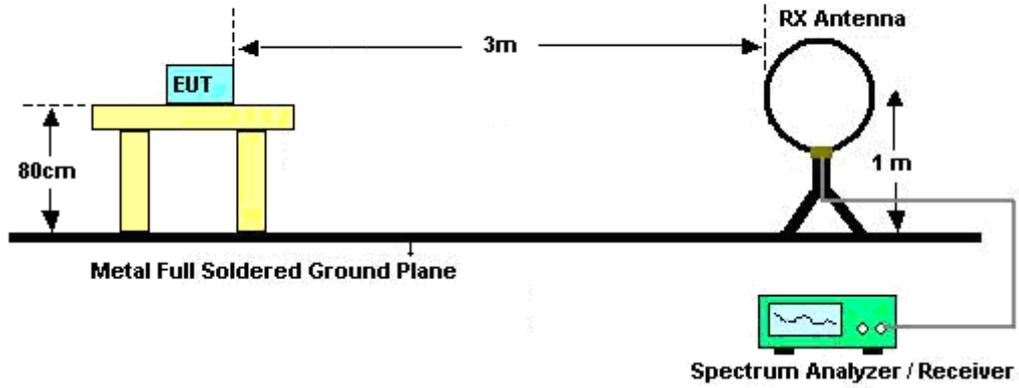


3.4.3 Test Procedures

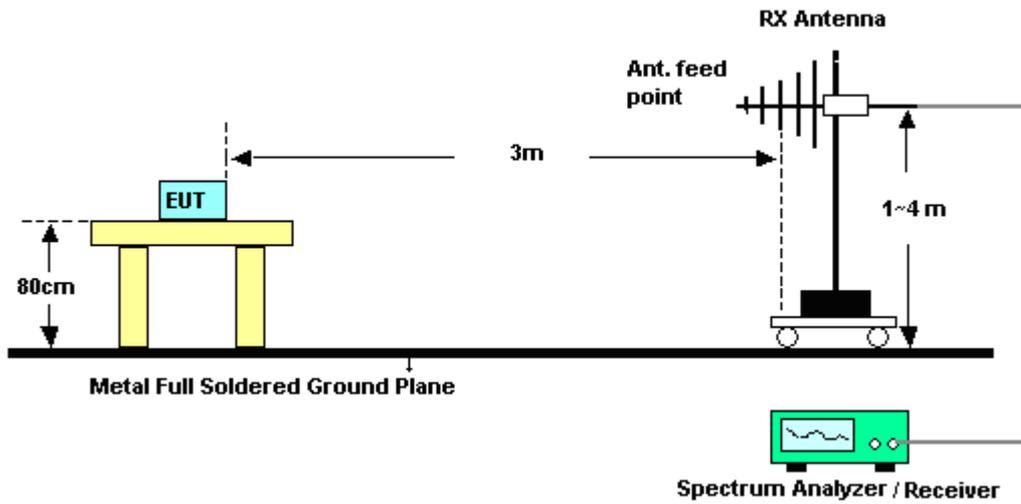
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

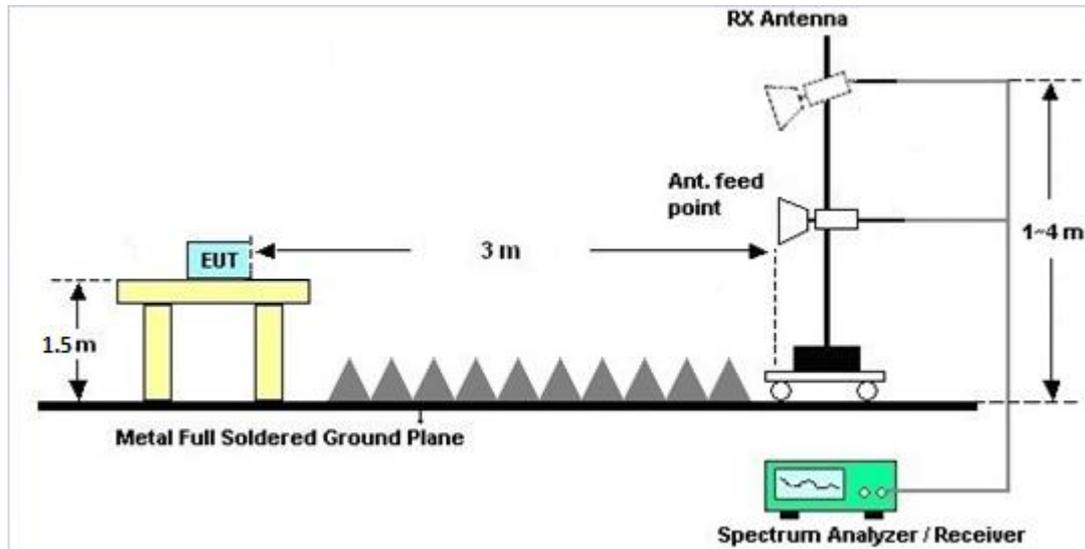
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment 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.

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

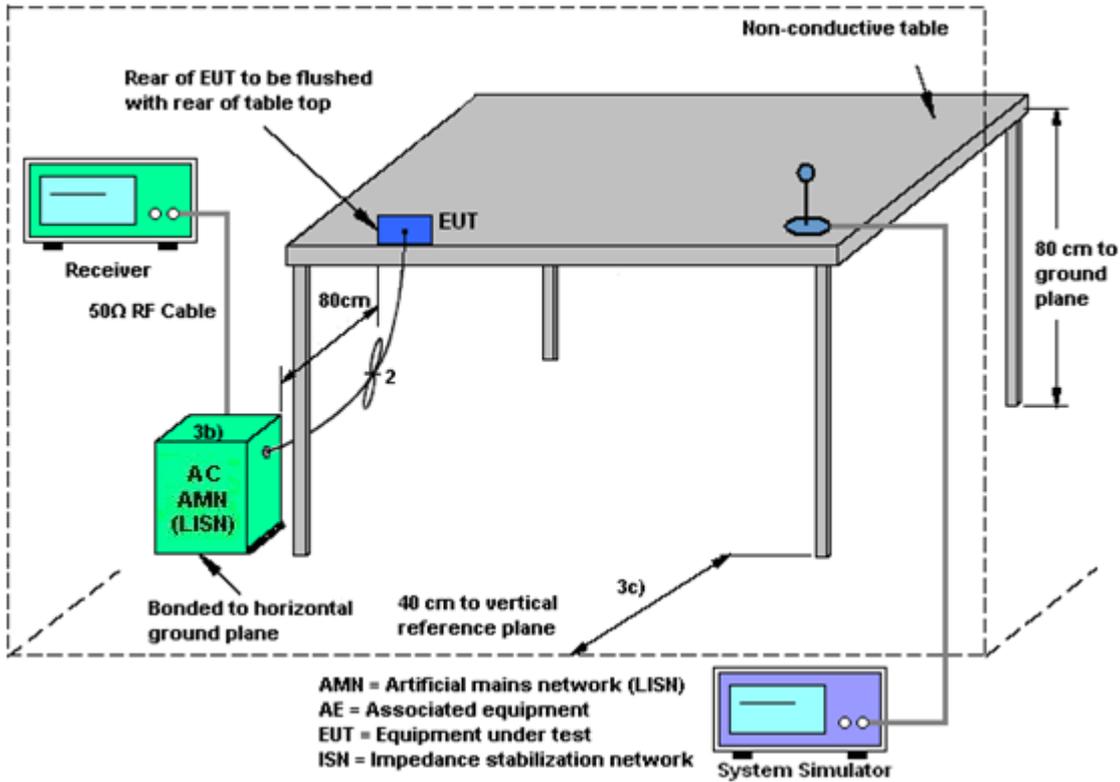
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2019	Jun. 08, 2020~ Jun. 10, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 15, 2020	Jun. 08, 2020~ Jun. 10, 2020	Jan. 14, 2021	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 08, 2020	Jun. 08, 2020~ Jun. 10, 2020	Jan. 07, 2021	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290157	3Hz~8.5GHz;Max 30dBm	Jul. 18, 2019	Jun. 12, 2020	Jul. 17, 2020	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz	Apr. 15, 2020	Jun. 12, 2020	Apr. 16, 2021	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 10, 2019	Jun. 12, 2020	Nov. 09, 2020	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	May 30, 2020	Jun. 12, 2020	May 29, 2021	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 27, 2020	Jun. 12, 2020	Apr. 26, 2021	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Jun. 12, 2020	Nov. 09, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2019	Jun. 12, 2020	Aug. 05, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 08, 2020	Jun. 12, 2020	Jan. 07, 2021	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Aug. 16, 2019	Jun. 12, 2020	Aug. 15, 2020	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 15, 2020	Jun. 12, 2020	Apr. 14, 2021	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 12, 2020	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 12, 2020	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 12, 2020	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 14, 2020	May 29, 2020	Apr. 13, 2021	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 18, 2019	May 29, 2020	Oct. 17, 2020	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Oct. 28, 2019	May 29, 2020	Oct. 27, 2020	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 18, 2019	May 29, 2020	Oct. 17, 2020	Conduction (CO01-KS)

NCR: No Calibration Required.



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.9dB
---	-------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------



Appendix A. Conducted Test Results

Test Engineer:	Lex Wu	Temperature:	21~25	°C
Test Date:	2020/6/8~2020/6/10	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
11a	6Mbps	1	36	5180	17.53	21.23	-	22.44		
11a	6Mbps	1	44	5220	17.78	20.98	-	22.50		
11a	6Mbps	1	48	5240	17.88	21.28	-	22.52		
HT20	MCS0	1	36	5180	18.23	21.08	-	22.61		
HT20	MCS0	1	44	5220	18.38	21.28	-	22.64		
HT20	MCS0	1	48	5240	18.38	21.13	-	22.64		
HT40	MCS0	1	38	5190	36.56	40.91	-	23.01		
HT40	MCS0	1	46	5230	36.26	40.64	-	23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	97.46	15.32	24.00	-1.10		Pass
11a	6Mbps	1	44	5220	97.46	15.29	24.00	-1.10		Pass
11a	6Mbps	1	48	5240	97.46	14.83	24.00	-1.10		Pass
HT20	MCS0	1	36	5180	97.28	15.09	24.00	-1.10		Pass
HT20	MCS0	1	44	5220	97.28	15.03	24.00	-1.10		Pass
HT20	MCS0	1	48	5240	97.28	14.94	24.00	-1.10		Pass
HT40	MCS0	1	38	5190	94.49	11.75	24.00	-1.10		Pass
HT40	MCS0	1	46	5230	94.49	13.82	24.00	-1.10		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.11	5.32	11.00	-1.10		Pass
11a	6Mbps	1	44	5220	0.11	5.10	11.00	-1.10		Pass
11a	6Mbps	1	48	5240	0.11	4.99	11.00	-1.10		Pass
HT20	MCS0	1	36	5180	0.12	5.27	11.00	-1.10		Pass
HT20	MCS0	1	44	5220	0.12	4.83	11.00	-1.10		Pass
HT20	MCS0	1	48	5240	0.12	4.98	11.00	-1.10		Pass
HT40	MCS0	1	38	5190	0.25	-2.52	11.00	-1.10		Pass
HT40	MCS0	1	46	5230	0.25	0.19	11.00	-1.10		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note	
11a	6M bps	1	52	5260	17.93	20.98	23.54	29.54	23.98		
11a	6M bps	1	60	5300	17.83	22.18	23.51	29.51	23.98		
11a	6M bps	1	64	5320	17.83	21.28	23.51	29.51	23.98		
HT20	MCS 0	1	52	5260	18.38	21.43	23.64	29.64	23.98		
HT20	MCS 0	1	60	5300	18.58	21.73	23.69	29.69	23.98		
HT20	MCS 0	1	64	5320	18.58	21.93	23.69	29.69	23.98		
HT40	MCS 0	1	54	5270	36.26	40.64	23.98	30.00	23.98		
HT40	MCS 0	1	62	5310	36.26	40.55	23.98	30.00	23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	97.46	14.82	23.98	-1.10	26.99	Pass
11a	6M bps	1	60	5300	97.46	14.79	23.98	-1.10	26.99	Pass
11a	6M bps	1	64	5320	97.46	14.67	23.98	-1.10	26.99	Pass
HT20	MCS 0	1	52	5260	97.28	14.74	23.98	-1.10	26.99	Pass
HT20	MCS 0	1	60	5300	97.28	14.77	23.98	-1.10	26.99	Pass
HT20	MCS 0	1	64	5320	97.28	14.65	23.98	-1.10	26.99	Pass
HT40	MCS 0	1	54	5270	94.49	13.44	23.98	-1.10	26.99	Pass
HT40	MCS 0	1	62	5310	94.49	12.46	23.98	-1.10	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	52	5260	0.11	5.05	11.00	-1.10		Pass
11a	6M bps	1	60	5300	0.11	5.08	11.00	-1.10		Pass
11a	6M bps	1	64	5320	0.11	4.68	11.00	-1.10		Pass
HT20	MCS 0	1	52	5260	0.12	4.24	11.00	-1.10		Pass
HT20	MCS 0	1	60	5300	0.12	4.45	11.00	-1.10		Pass
HT20	MCS 0	1	64	5320	0.12	4.25	11.00	-1.10		Pass
HT40	MCS 0	1	54	5270	0.25	-0.30	11.00	-1.10		Pass
HT40	MCS 0	1	62	5310	0.25	-1.54	11.00	-1.10		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note	
11a	6M bps	1	100	5500	18.08	27.62	23.57	29.57	23.98		
11a	6M bps	1	116	5580	18.73	29.12	23.73	29.73	23.98		
11a	6Mbps	1	140	5700	18.63	31.37	23.70	29.70	23.98		
11a	6M bps	1	144	5720	21.53	30.22	23.98	30.00	23.98		
HT20	MCS 0	1	100	5500	18.98	28.87	23.78	29.78	23.98		
HT20	MCS 0	1	116	5580	19.33	33.72	23.86	29.86	23.98		
HT20	MCS0	1	140	5700	19.28	32.12	23.85	29.85	23.98		
HT20	MCS 0	1	144	5720	20.48	34.22	23.98	30.00	23.98		
HT40	MCS 0	1	102	5510	36.86	56.37	23.98	30.00	23.98		
HT40	MCS 0	1	110	5550	36.86	53.23	23.98	30.00	23.98		
HT40	MCS0	1	134	5670	37.16	56.64	23.98	30.00	23.98		
HT40	MCS 0	1	142	5710	36.96	57.00	23.98	30.00	23.98		

TEST RESULTS DATA
Average Power Table

FCC Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	97.46	14.79	23.98	-1.10	26.99	Pass
11a	6M bps	1	116	5580	97.46	14.08	23.98	-1.10	26.99	Pass
11a	6Mbps	1	140	5700	97.46	13.13	23.98	-1.10	26.99	Pass
11a	6M bps	1	144	5720	97.46	13.82	23.98	-1.10	26.99	Pass
HT20	MCS 0	1	100	5500	97.28	14.65	23.98	-1.10	26.99	Pass
HT20	MCS 0	1	116	5580	97.28	14.50	23.98	-1.10	26.99	Pass
HT20	MCS0	1	140	5700	97.28	13.21	23.98	-1.10	26.99	Pass
HT20	MCS 0	1	144	5720	97.28	13.79	23.98	-1.10	26.99	Pass
HT40	MCS 0	1	102	5510	94.49	12.88	23.98	-1.10	26.99	Pass
HT40	MCS 0	1	110	5550	94.49	13.16	23.98	-1.10	26.99	Pass
HT40	MCS0	1	134	5670	94.49	12.93	23.98	-1.10	26.99	Pass
HT40	MCS 0	1	142	5710	94.49	12.17	23.98	-1.10	26.99	Pass

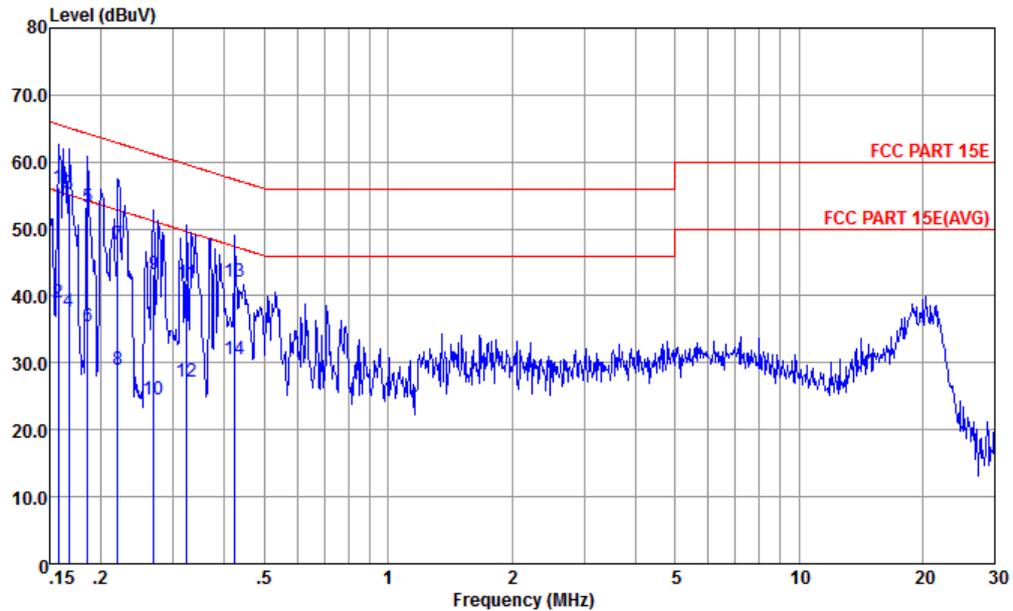
TEST RESULTS DATA
Power Spectral Density

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	0.11	4.63	11.00	-1.10		Pass
11a	6M bps	1	116	5580	0.11	4.51	11.00	-1.10		Pass
11a	6Mbps	1	140	5700	0.11	4.12	11.00	-1.10		Pass
11a	6M bps	1	144	5720	0.11	3.62	11.00	-1.10		Pass
HT20	MCS 0	1	100	5500	0.12	4.87	11.00	-1.10		Pass
HT20	MCS 0	1	116	5580	0.12	4.43	11.00	-1.10		Pass
HT20	MCS0	1	140	5700	0.12	3.90	11.00	-1.10		Pass
HT20	MCS 0	1	144	5720	0.12	3.19	11.00	-1.10		Pass
HT40	MCS 0	1	102	5510	0.25	-0.81	11.00	-1.10		Pass
HT40	MCS 0	1	110	5550	0.25	-0.35	11.00	-1.10		Pass
HT40	MCS0	1	134	5670	0.25	-0.80	11.00	-1.10		Pass
HT40	MCS 0	1	142	5710	0.25	-1.68	11.00	-1.10		Pass



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



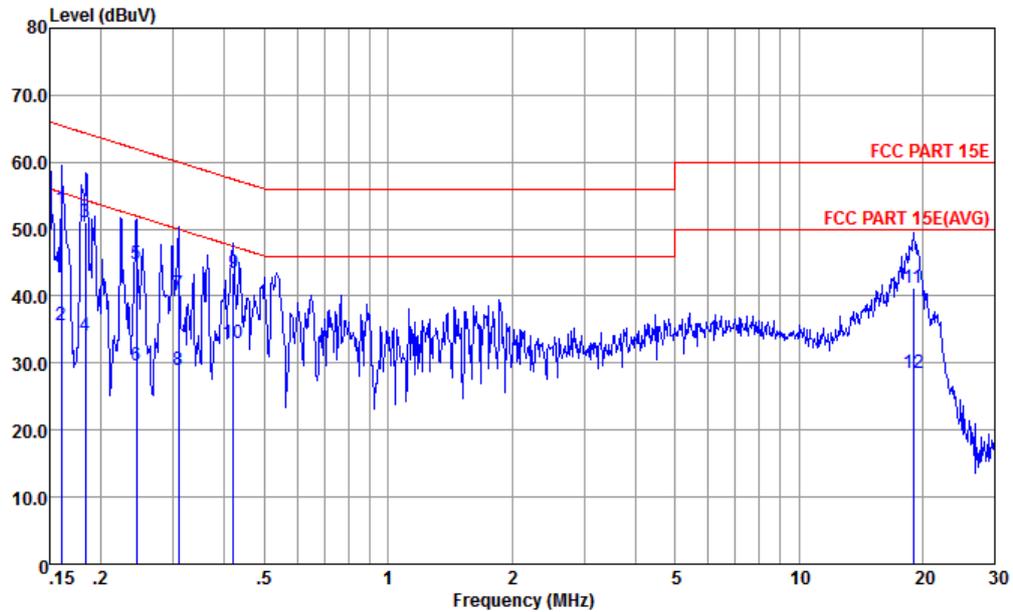
Site : CO01-KS
Condition : FCC PART 15E LISN-L-191028-060105 LINE

mode : Mode 1
: 860175050001634

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.157	56.09	-9.51	65.60	45.60	0.03	10.46	QP
2	0.157	39.09	-16.51	55.60	28.60	0.03	10.46	Average
3	0.167	55.37	-9.75	65.12	44.90	0.03	10.44	QP
4	0.167	37.77	-17.35	55.12	27.30	0.03	10.44	Average
5	0.185	53.33	-10.91	64.24	42.90	0.04	10.39	QP
6	0.185	35.53	-18.71	54.24	25.10	0.04	10.39	Average
7	0.220	47.59	-15.24	62.83	37.20	0.04	10.35	QP
8	0.220	28.89	-23.94	52.83	18.50	0.04	10.35	Average
9	0.269	43.17	-17.99	61.16	32.80	0.05	10.32	QP
10	0.269	24.57	-26.59	51.16	14.20	0.05	10.32	Average
11	0.323	41.85	-17.77	59.62	31.50	0.05	10.30	QP
12	0.323	27.25	-22.37	49.62	16.90	0.05	10.30	Average
13	0.424	42.11	-15.26	57.37	31.79	0.06	10.26	QP
14	0.424	30.61	-16.76	47.37	20.29	0.06	10.26	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : FCC PART 15E LISN-N-191028-060105 NEUTRAL

mode : Mode 1
 : 860175050001634

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.160	53.13	-12.34	65.47	42.60	0.08	10.45	QP
2	0.160	35.63	-19.84	55.47	25.10	0.08	10.45	Average
3	0.183	51.08	-13.25	64.33	40.60	0.08	10.40	QP
4	0.183	34.08	-20.25	54.33	23.60	0.08	10.40	Average
5	0.244	44.72	-17.23	61.95	34.30	0.08	10.34	QP
6	0.244	29.72	-22.23	51.95	19.30	0.08	10.34	Average
7	0.308	40.29	-19.73	60.02	29.90	0.09	10.30	QP
8	0.308	28.89	-21.13	50.02	18.50	0.09	10.30	Average
9	0.419	43.56	-13.90	57.46	33.20	0.10	10.26	QP
10	0.419	32.96	-14.50	47.46	22.60	0.10	10.26	Average
11	19.021	41.26	-18.74	60.00	30.19	0.59	10.48	QP
12	19.021	28.56	-21.44	50.00	17.49	0.59	10.48	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5112.16	56.7	-17.3	74	43.87	35.3	10.86	33.33	119	74	P	H
		5149.92	47.25	-6.75	54	34.35	35.33	10.89	33.32	119	74	A	H
	*	5176	104.62	-	-	91.65	35.36	10.93	33.32	119	74	P	H
		5176	97.45	-	-	84.48	35.36	10.93	33.32	119	74	A	H
		5115.2	57.07	-16.93	74	44.24	35.3	10.86	33.33	325	95	P	V
		5149.6	47.82	-6.18	54	34.92	35.33	10.89	33.32	325	95	A	V
	*	5176	106.09	-	-	93.12	35.36	10.93	33.32	325	95	P	V
		5176	99.16	-	-	86.19	35.36	10.93	33.32	325	95	A	V



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10358.36	45.84	-22.46	68.3	52.53	39.59	15.81	62.09	100	360	P	H
		10358.36	45.85	-22.45	68.3	52.54	39.59	15.81	62.09	100	360	P	V
802.11a CH 44 5220MHz		10438.44	44.84	-23.46	68.3	51.37	39.63	15.89	62.05	100	360	P	H
		10438.44	46.2	-22.1	68.3	52.73	39.63	15.89	62.05	100	360	P	V
802.11a CH 48 5240MHz		10478.47	45.26	-23.04	68.3	51.68	39.66	15.94	62.02	100	360	P	H
		10478.47	45.7	-22.6	68.3	52.12	39.66	15.94	62.02	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT20 CH 36 5180MHz across various frequencies and antenna positions.



Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36		10358.36	44.83	-23.47	68.3	51.52	39.59	15.81	62.09	100	360	P	H
5180MHz		10358.36	45.77	-22.53	68.3	52.46	39.59	15.81	62.09	100	360	P	V
802.11n HT20 CH 44		10438.44	45.27	-23.03	68.3	51.8	39.63	15.89	62.05	100	360	P	H
5220MHz		10438.44	44.63	-23.67	68.3	51.16	39.63	15.89	62.05	100	360	P	V
802.11n HT20 CH 48		10478.47	44.75	-23.55	68.3	51.17	39.66	15.94	62.02	100	360	P	H
5240MHz		10478.47	45.76	-22.54	68.3	52.18	39.66	15.94	62.02	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5149.6	62.22	-11.78	74	48.85	35.33	11.36	33.32	113	81	P	H
		5149.92	49.71	-4.29	54	36.34	35.33	11.36	33.32	113	81	A	H
	*	5182	96.57	-	-	83.13	35.36	11.4	33.32	113	81	P	H
		5182	96.57	-	-	83.13	35.36	11.4	33.32	113	81	A	H
		5395.14	53.61	-20.39	74	39.75	35.57	11.6	33.31	113	81	P	H
		5398.56	44.81	-9.19	54	30.95	35.57	11.6	33.31	113	81	A	H
		5146.4	60.73	-13.27	74	47.36	35.33	11.36	33.32	288	99	P	V
		5149.76	50.34	-3.66	54	36.97	35.33	11.36	33.32	288	99	A	V
	*	5194	98.46	-	-	84.99	35.38	11.41	33.32	288	99	P	V
		5194	91.23	-	-	77.76	35.38	11.41	33.32	288	99	A	V
		5353.02	53.93	-20.07	74	40.12	35.52	11.61	33.32	288	99	P	V
		5396.58	44.72	-9.28	54	30.86	35.57	11.6	33.31	288	99	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38		10378.38	44.07	-24.23	68.3	50.69	39.61	15.84	62.07	100	360	P	H
5190MHz		10378.38	44.73	-23.57	68.3	51.35	39.61	15.84	62.07	100	360	P	V
802.11n HT40 CH 46		10458.46	46.39	-21.91	68.3	52.88	39.64	15.91	62.04	100	360	P	H
5230MHz		10458.46	44.68	-23.62	68.3	51.17	39.64	15.91	62.04	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 64 5320MHz		5376.9	55.81	-18.19	74	42.45	35.54	11.13	33.31	105	73	P	H
		5351.9	46.48	-7.52	54	33.17	35.52	11.11	33.32	105	73	A	H
	*	5320	103.47	-	-	90.22	35.49	11.08	33.32	105	73	P	H
		5320	96.42	-	-	83.17	35.49	11.08	33.32	105	73	A	H
		5354.5	56.68	-17.32	74	43.37	35.52	11.11	33.32	292	101	P	V
		5350.3	47.33	-6.67	54	34.02	35.52	11.11	33.32	292	101	A	V
	*	5320	106.14	-	-	92.89	35.49	11.08	33.32	292	101	P	V
		5320	99.18	-	-	85.93	35.49	11.08	33.32	292	101	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10518.52	45.14	-23.16	68.3	51.49	39.68	15.98	62.01	300	0	P	H
		10518.52	45.58	-22.72	68.3	51.93	39.68	15.98	62.01	100	360	P	V
802.11a CH 60 5300MHz		10600	45	-29	74	51.19	39.72	16.06	61.97	300	0	P	H
		10600	45.35	-28.65	74	51.54	39.72	16.06	61.97	100	360	P	V
802.11a CH 64 5320MHz		10638.63	45.53	-28.47	74	51.65	39.74	16.09	61.95	300	0	P	H
		10638.63	46.09	-27.91	74	52.21	39.74	16.09	61.95	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11n HT20 CH 64 5320MHz and a Remark section.



Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10518.52	44.62	-23.68	68.3	50.97	39.68	15.98	62.01	100	360	P	H
		10518.52	44.96	-23.34	68.3	51.31	39.68	15.98	62.01	100	360	P	V
802.11n HT20 CH 60 5300MHz		10600	44.98	-29.02	74	51.17	39.72	16.06	61.97	100	360	P	H
		10600	46.1	-27.9	74	52.29	39.72	16.06	61.97	100	360	P	V
802.11n HT20 CH 64 5320MHz		10638.63	44.59	-29.41	74	50.71	39.74	16.09	61.95	100	360	P	H
		10638.63	45.68	-28.32	74	51.8	39.74	16.09	61.95	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 62 5310MHz		5104.64	54.61	-19.39	74	41.36	35.28	11.3	33.33	269	271	P	H
		5122.24	45.7	-8.3	54	32.41	35.3	11.32	33.33	269	271	A	H
	*	5314	96.75	-	-	82.96	35.49	11.62	33.32	269	271	P	H
		5314	89.99	-	-	76.2	35.49	11.62	33.32	269	271	A	H
		5355.2	55.69	-18.31	74	41.88	35.52	11.61	33.32	269	271	P	H
		5350.9	47.76	-6.24	54	33.95	35.52	11.61	33.32	269	271	A	H
		5133.28	54.82	-19.18	74	41.49	35.31	11.34	33.32	290	100	P	V
		5141.76	45.86	-8.14	54	32.49	35.33	11.36	33.32	290	100	A	V
	*	5302	99.88	-	-	86.1	35.48	11.62	33.32	290	100	P	V
		5302	92.77	-	-	78.99	35.48	11.62	33.32	290	100	A	V
		5350.8	59.17	-14.83	74	45.36	35.52	11.61	33.32	290	100	P	V
		5350	49.12	-4.88	54	35.31	35.52	11.61	33.32	290	100	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT40 CH 54 at 10538.54 MHz and CH 62 at 10618.62 MHz.



Band 2 5250~5350MHz

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5444.4	54.58	-19.42	74	41.08	35.61	11.2	33.31	111	263	P	H
		5466.64	54.65	-13.65	68.3	41.08	35.64	11.24	33.31	111	263	P	H
		5456.08	46.41	-7.59	54	32.88	35.62	11.22	33.31	111	263	A	H
	*	5500	104.67	-	-	91.03	35.67	11.28	33.31	111	263	P	H
		5500	97.98	-	-	84.34	35.67	11.28	33.31	111	263	A	H
		5452.56	55.46	-18.54	74	41.93	35.62	11.22	33.31	303	107	P	V
		5468.88	56.09	-12.21	68.3	42.52	35.64	11.24	33.31	303	107	P	V
		5460	47.03	-6.97	54	33.5	35.62	11.22	33.31	303	107	A	V
	*	5500	106.65	-	-	93.01	35.67	11.28	33.31	303	107	P	V
		5500	99.44	-	-	85.8	35.67	11.28	33.31	303	107	A	V



802.11a CH 140 5700MHz		5727.24	63.6	-4.7	68.3	49.19	35.84	11.95	33.38	120	294	P	H
	*	5698	107.09	-	-	92.69	35.82	11.95	33.37	120	294	P	H
		5698	99.5	-	-	85.1	35.82	11.95	33.37	120	294	A	H
		5729.16	58.28	-10.02	68.3	43.87	35.84	11.95	33.38	310	147	P	V
	*	5704	103.98	-	-	89.57	35.83	11.95	33.37	310	147	P	V
		5704	96.5	-	-	82.09	35.83	11.95	33.37	310	147	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11004	46.22	-27.78	74	51.63	39.93	16.45	61.79	100	360	P	H
		10999	45.12	-28.88	74	50.53	39.93	16.45	61.79	100	360	P	V
802.11a CH 116 5580MHz		11159.16	45.8	-28.2	74	50.9	40.02	16.72	61.84	100	360	P	H
		11159.16	44.5	-29.5	74	49.6	40.02	16.72	61.84	100	360	P	V
802.11a CH 140 5700MHz		11399.39	45.02	-28.98	74	49.68	40.15	17.1	61.91	100	360	P	H
		11399.39	45.89	-28.11	74	50.55	40.15	17.1	61.91	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include frequencies like 5458.16, 5466.96, 5457.2, 5500, 5457.04, 5467.12, 5458.96, and 5500.



802.11n HT20 CH 140 5700MHz		5725.4	65.02	-3.28	68.3	50.61	35.84	11.95	33.38	121	292	P	H
	*	5704	105.1	-	-	90.69	35.83	11.95	33.37	121	292	P	H
		5704	98.56	-	-	84.15	35.83	11.95	33.37	121	292	A	H
		5725.16	61.8	-6.5	68.3	47.39	35.84	11.95	33.38	283	111	P	V
	*	5704	102.39	-	-	87.98	35.83	11.95	33.37	283	111	P	V
		5704	95.61	-	-	81.2	35.83	11.95	33.37	283	111	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for channels 100, 116, and 140 at various frequencies.



Band 3 - 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT40 and CH 102 5510MHz.



802.11n HT40 CH 134 5670MHz		5365.68	54.08	-19.92	74	40.26	35.54	11.6	33.32	108	285	P	H
		5468.4	54.85	-13.45	68.3	40.91	35.64	11.61	33.31	108	285	P	H
		5458.96	45.42	-8.58	54	31.51	35.62	11.6	33.31	108	285	A	H
	*	5674	101	-	-	86.61	35.82	11.94	33.37	108	285	P	H
		5674	94.01	-	-	79.62	35.82	11.94	33.37	108	285	A	H
		5726.04	64.69	-3.61	68.3	50.28	35.84	11.95	33.38	108	285	P	H
		5351.28	54.28	-19.72	74	40.47	35.52	11.61	33.32	318	91	P	V
		5467.44	53.23	-15.07	68.3	39.29	35.64	11.61	33.31	318	91	P	V
		5452.56	45.4	-8.6	54	31.49	35.62	11.6	33.31	318	91	A	V
	*	5680	98.41	-	-	84.02	35.82	11.94	33.37	318	91	P	V
		5680	91.29	-	-	76.9	35.82	11.94	33.37	318	91	A	V
		5725.08	62.34	-5.96	68.3	47.93	35.84	11.95	33.38	318	91	P	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												



Band 3 - 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11019.02	45.71	-28.29	74	51.1	39.94	16.47	61.8	300	0	P	H
		11019.02	45.32	-28.68	74	50.71	39.94	16.47	61.8	100	360	P	V
802.11n HT40 CH 110 5550MHz		11099.1	45.25	-28.75	74	50.48	39.98	16.61	61.82	300	0	P	H
		11099.1	45.3	-28.7	74	50.53	39.98	16.61	61.82	100	360	P	V
802.11n HT40 CH 134 5670MHz		11339.33	46.36	-27.64	74	51.15	40.11	16.99	61.89	300	0	P	H
		11339.33	45.5	-28.5	74	50.29	40.11	16.99	61.89	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5722	106.39	-	-	91.98	35.84	11.95	33.38	103	294	P	H
		5722	98.67	-	-	84.26	35.84	11.95	33.38	103	294	A	H
	*	5722	104.12	-	-	89.71	35.84	11.95	33.38	314	88	P	V
		5722	97.16	-	-	82.75	35.84	11.95	33.38	314	88	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). It contains two data rows and a Remark section.



Band 3 - Straddle Channel
WIFI 802.11n HT20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11n HT20 and CH 144 5720MHz.

- Remark
1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



Band 3 - Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). It contains two data rows and a Remark section.



Band 3 - Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11n HT40 and 5710MHz data points, and a Remark section.



Band 3 - Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for 802.11n HT40 and CH 142, and a Remark section.



Emission below 1GHz

WIFI Band 3 802.11n HT20 CH140 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		63.95	26	-14	40	44.76	12.22	0.95	31.93	-	-	P	H
		165.8	21.96	-21.54	43.5	35.84	16.54	1.51	31.93	-	-	P	H
		276.38	28.17	-17.83	46	39.25	19.02	1.92	32.02	-	-	P	H
		408.3	26.95	-19.05	46	34.7	22.11	2.27	32.13	-	-	P	H
		460.68	26.46	-19.54	46	32.96	23.31	2.42	32.23	-	-	P	H
		833.16	32.58	-13.42	46	32.23	28.93	3.32	31.9	100	300	P	H
		63.95	24.83	-15.17	40	43.59	12.22	0.95	31.93	100	300	P	V
		149.31	20.32	-23.18	43.5	33.69	17.18	1.39	31.94	-	-	P	V
		497.54	32.67	-13.33	46	38.34	24.04	2.55	32.26	-	-	P	V
		563.5	25.99	-20.01	46	30.13	25.56	2.66	32.36	-	-	P	V
		645.95	28.51	-17.49	46	31.42	26.55	2.9	32.36	-	-	P	V
		996.12	34	-20	54	30.44	30.53	3.59	30.56	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

- Level(dBμV/m) =
Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

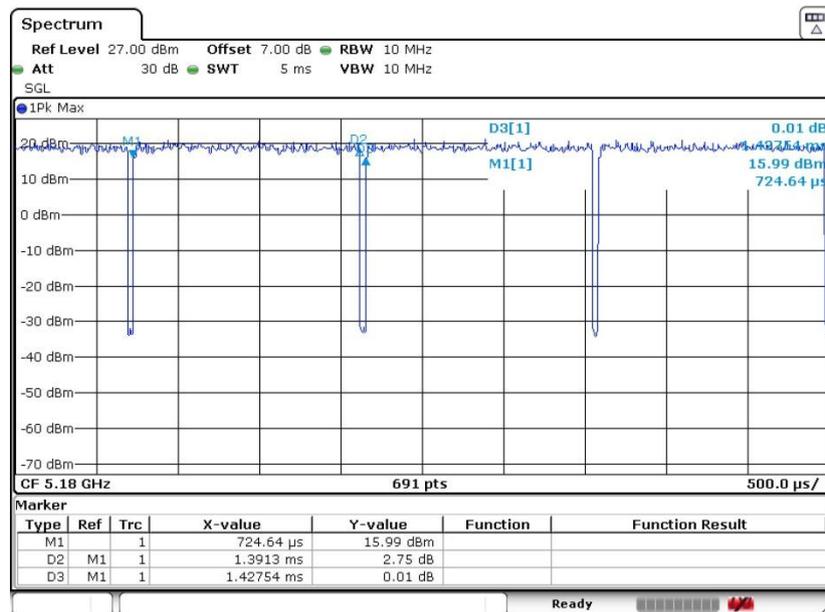
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Duty Cycle Plots

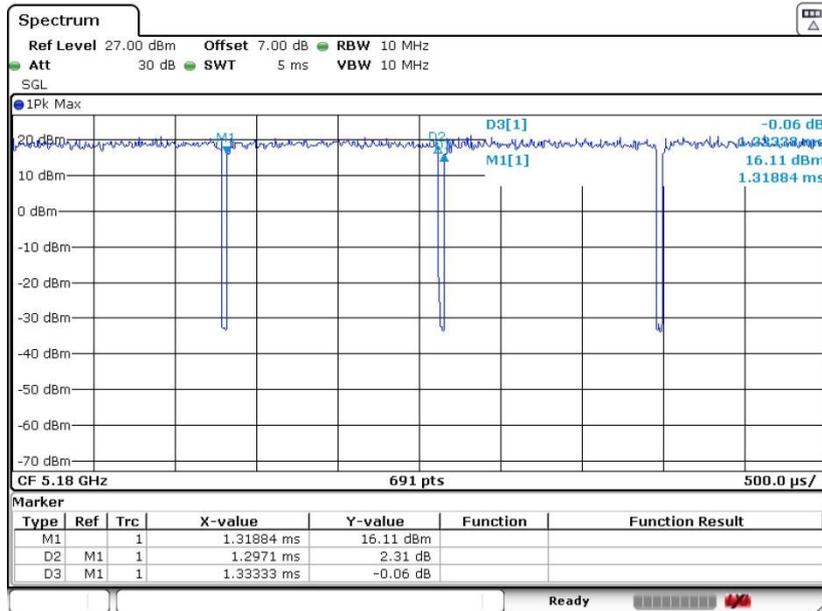
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	97.46	1.391	0.719	0.75kHz
802.11n HT20	97.28	1.297	0.771	0.82kHz
802.11n HT40	94.49	0.646	1.547	1.6kHz

802.11a





802.11n HT20



802.11n HT40

