FCC RF Test Report

APPLICANT	:	Lenovo(Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT	:	Portable Tablet Computer
BRAND NAME	:	Lenovo
MODEL NAME	:	Lenovo TB-8304F
FCC ID	:	O57TB8304F
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The product was received on Jan. 09, 2018 and testing was completed on Mar. 01, 2018. 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.

James Huang

Approved by: James Huang / Manager

TESTING
NVLAP LAB CODE 600155-0

Sporton International (Kunshan) Inc.
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR810906D	Rev. 01	Initial issue of report	Mar. 09, 2018

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	FCC ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) 15.209(a)	Pass	Under limit 3.17 dB at 32.910 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 8.27 dB at 0.369 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.
NO.68 BUILDING, 199 FENJU RD, China (Shanghai) Pilot Free Trade Zone, 200131, CHINA

1.2 Manufacturer

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo TB-8304F
FCC ID	O57TB8304F
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/ Bluetooth v4.1 LE/Bluetooth v4.2 LE
HW Version	Lenovo Tablet TB-8304F
SW Version	TB-8304F_RF01_180102
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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 : 15.17 dBm / 0.0329 W 802.11n HT20 : 15.04 dBm / 0.0319 W 802.11n HT40 : 14.07 dBm / 0.0255 W **<5260 MHz ~ 5320 MHz>** 802.11a : 14.79 dBm / 0.0301 W 802.11n HT20 : 14.75 dBm / 0.0299 W 802.11n HT40 : 13.85 dBm / 0.0243 W **<5500 MHz ~ 5720 MHz >** 802.11a : 14.09 dBm / 0.0256 W 802.11n HT20 : 14.03 dBm / 0.0253 W 802.11n HT40 : 14.08 dBm / 0.0256 W
99% Occupied Bandwidth	**<5180 MHz ~ 5240 MHz>** 802.11a : 17.73 MHz 802.11n HT20 : 18.33 MHz 802.11n HT40 : 36.56 MHz **<5260 MHz ~ 5320 MHz>** 802.11a : 17.78 MHz 802.11n HT20 : 18.43 MHz 802.11n HT40 : 36.46 MHz **<5500 MHz ~ 5720 MHz >** 802.11a : 17.68 MHz 802.11n HT20 : 18.38 MHz 802.11n HT40 : 36.56 MHz
Antenna Gain / Gain	**<5150 MHz ~ 5250 MHz>** IFA Antenna with gain 0.75 dBi **<5250 MHz ~ 5350 MHz>** IFA Antenna with gain 1.24 dBi **<5470 MHz ~ 5725 MHz>** IFA Antenna with gain 2.37 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Component List

There are two samples under test, the differences of two samples are shown in the table below.

Based on the similarity of two samples, only choose sample 1 to perform full test.

Object	Sample 1	Sample 2
LPDDR3 EMCP	NANYA: NT6CL256T32CQ-H1	LEAHKINN: KPN055ES3-Zia1
EMMC	Samsung: KLMAG1JETD-B041003	SanDisk: SDINADF4-16G-H
PCB	CEE: A525c_MainboardPCB	Huashen:A525c_Mainboard PCB
Battery	Sunwoda: 1001000045501	SCUD: R5700000028
speakerBox1	Xichundz: ZA2060AAA601USAA_Speaker Box_1511_FPC_Xichundz	Keysound: ZA2060AAA601USAA_Speaker Box_1511_FPC_Keysound
LCM	TXD: TXDT800CXPA-36	Starry: 2081080BH8021006-51F
Camera_Back	JSL: HS6283A1D-0P0J0	JSL: HS6283A1D-0P0J0
Camera_Front	C&T: V20672 V0	Brodsands: B02SF0319

1.6 Modification of EUT

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

1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No. is CN5013.

Test Site	Sporton International (Kunshan) Inc.			
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958			
Test Site No.	**Sporton Site No.**			**FCC Test Firm Registration No.**
	TH01-KS	CO01-KS	03CH03-KS	630927

Note: The test site complies with ANSI C63.4 2014 requirement.

1.8 Applicable Standards

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

- FCC 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

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: conducted emission (150 kHz to 30 MHz) and radiated 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 were recorded in this report.

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5180-5240 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	-	-	-	-

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5260-5320 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	-	-	-	-

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5500-5700 MHz Band 3 (U-NII-2C)	100	5500	120	5600
	102*	5510	124	5620
	104	5520	126*	5630
	108	5540	128	5640
	110*	5550	132	5660
	112	5560	134*	5670
	116	5580	136	5680
	118*	5590	140	5700
	-	-	144	5720

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

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions 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

AC Conducted Emission	Mode 1 : **Bluetooth Link + WLAN Link (5G) + USB Cable 1(Charging from Adapter 1) + Earphone + Battery 1 for Sample 1** Mode 2 : Bluetooth Link + WLAN Link (5G) + USB Cable 2(Charging from Adapter 2) + Earphone + Battery 2 for Sample 2

Remark:

1. For Radiated Test Cases, The tests were performed with Earphone, Adapter 1, Battery and USB Cable 1.
2. The worst case of conducted emission is mode 1; only the test data of it was reported.

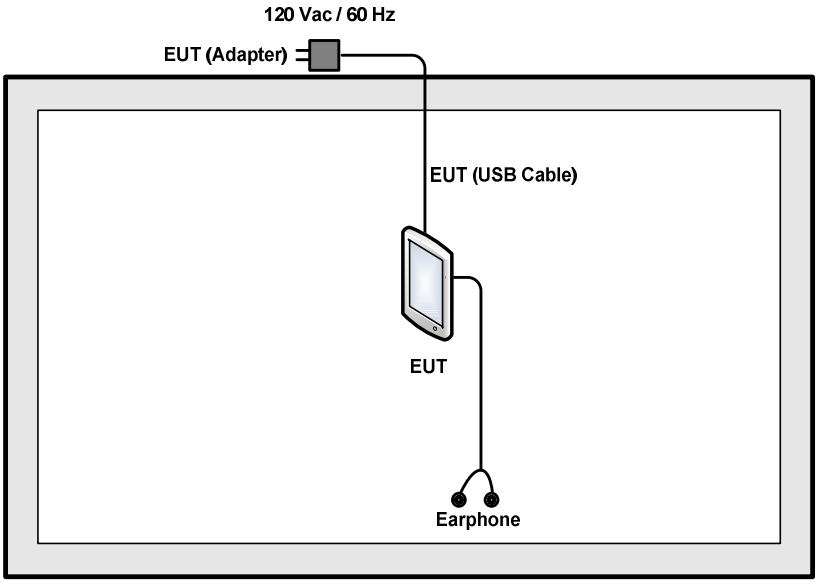
Ch. #		Band I：5180-5240 MHz	Band II：5260-5320 MHz	Band III：5500-5700MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5180-5240 MHz	Band II：5260-5320 MHz	Band III：5500-5700MHz
		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

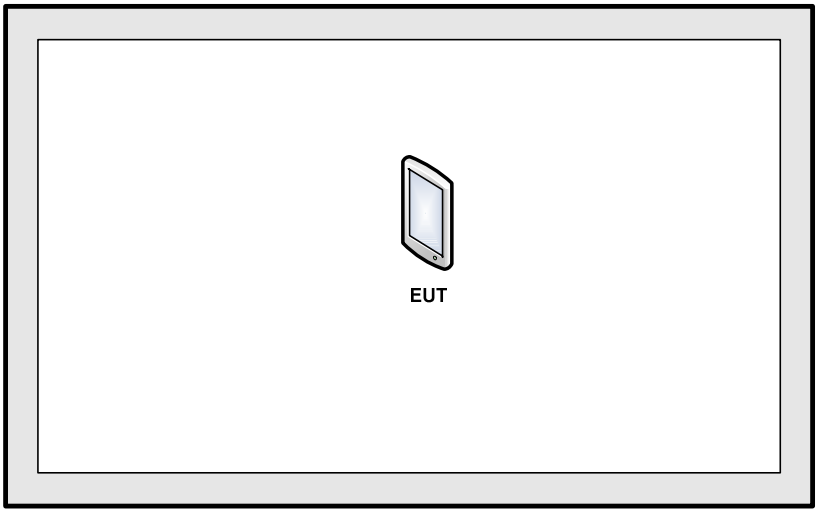
Ch. #		Band I：5180-5240 MHz	Band II：5260-5320 MHz	Band III：5500-5700MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

2.3 Connection Diagram of Test System

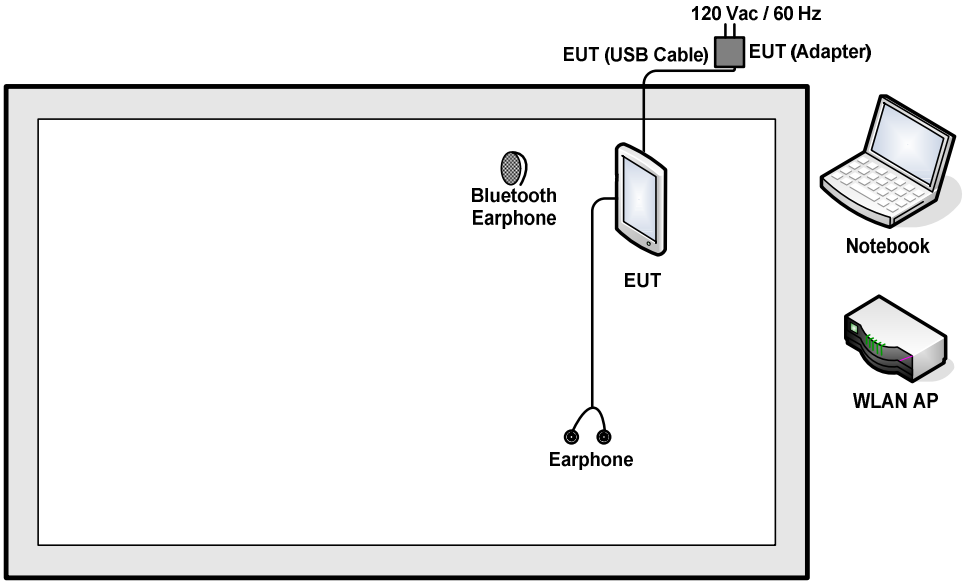
<WLAN 802.11a/n HT40 Tx Mode>



<WLAN 802.11n HT20 Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
2.	Notebook	Lenovo	G480	PRC4	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
4.	Earphone	Lenovo	P121	N/A	N/A	Unshielded,1.2m
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 6.9 dB.

Offset(dB) = RF cable loss(dB).

= 6.9 (dB)

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.

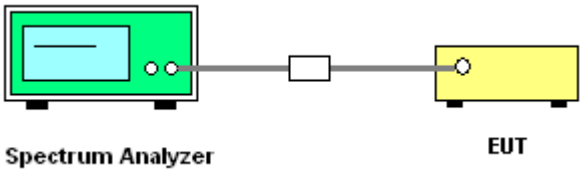
3.1.2 Measuring Instruments

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) ≥ 3 * RBW.
8. Measure and record the results in the test report.

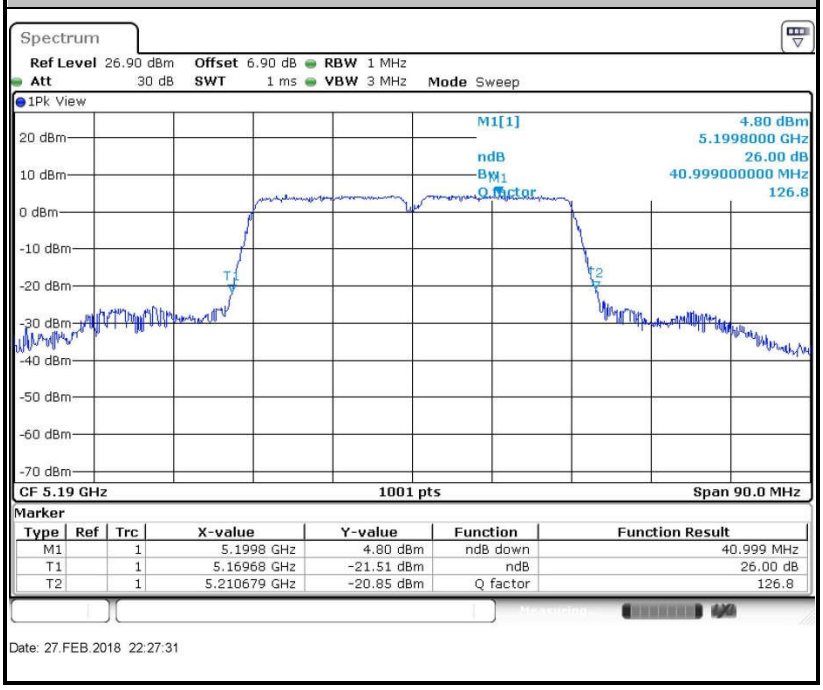
3.1.4 Test Setup



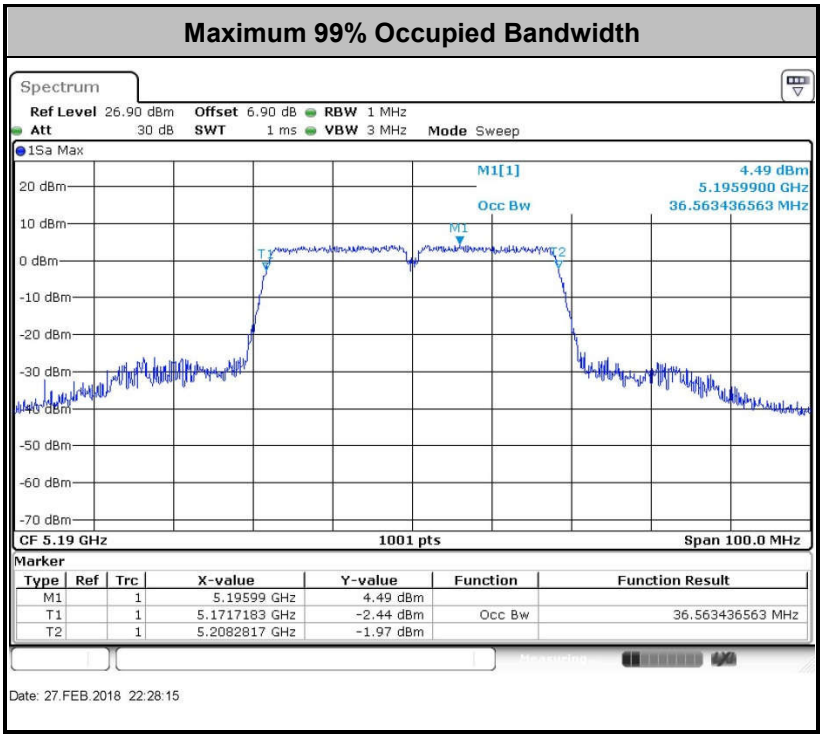
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth Plots

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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.

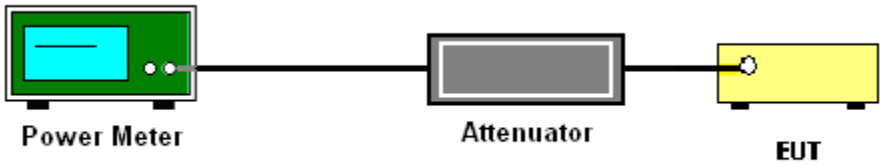
3.2.3 Test Procedures

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.

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.

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

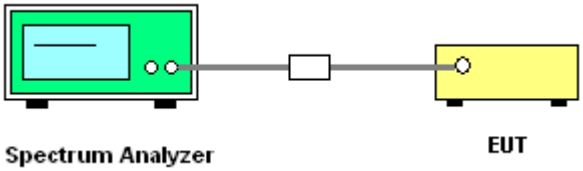
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

 # Method SA-2 #

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

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
   - Measure the duty cycle.
   - Set span to encompass the entire emission bandwidth (EBW) of the signal.
   - Set RBW = 1 MHz.
   - Set VBW ≥ 3 MHz.
   - Number of points in sweep ≥ 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.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

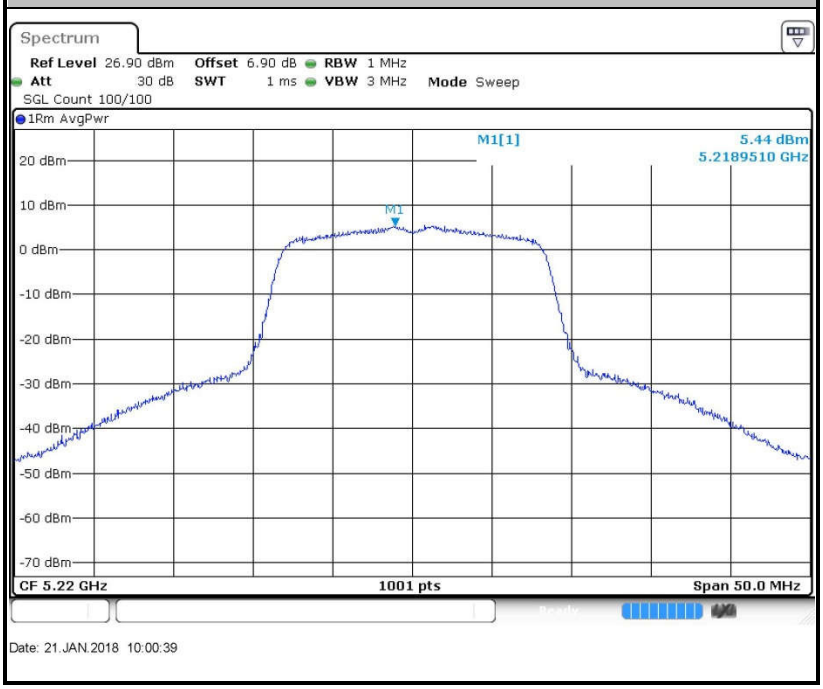
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Spectral Density(dBm/MHz)



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

3.4 Unwanted Radiated Emission 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 5470-5725MHz band: all emissions outside of the 5470-5725MHz 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

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

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27	68.3

(3) KDB789033 D01 v02r01 G)2)c)

(i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.[3]

(ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.[4]

Note 3: An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

Note 4: Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

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 ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

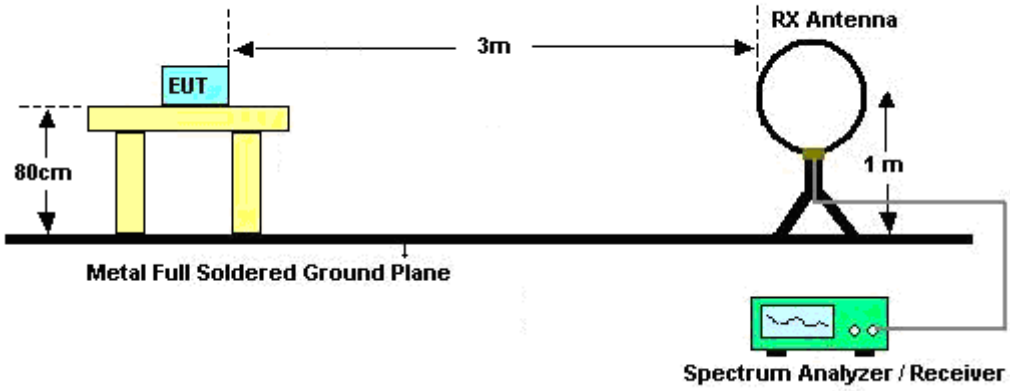
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 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.

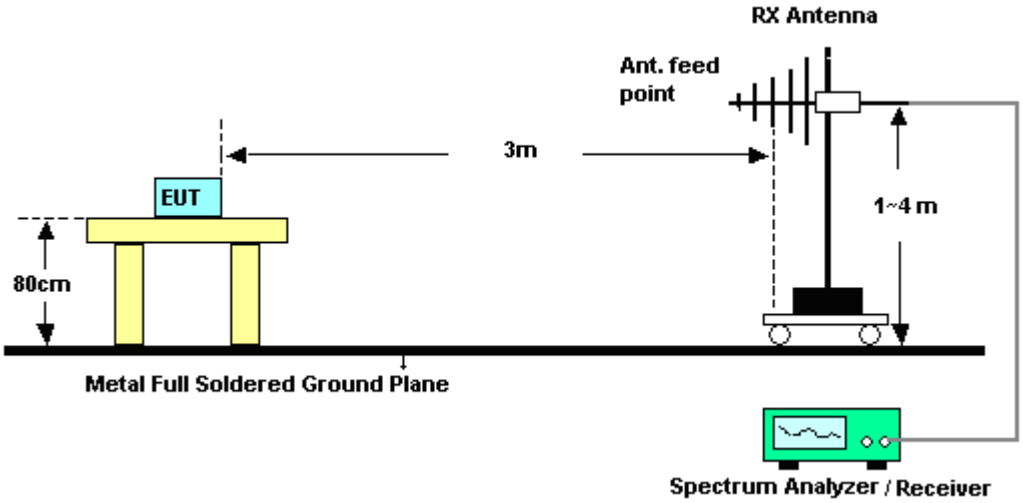
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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

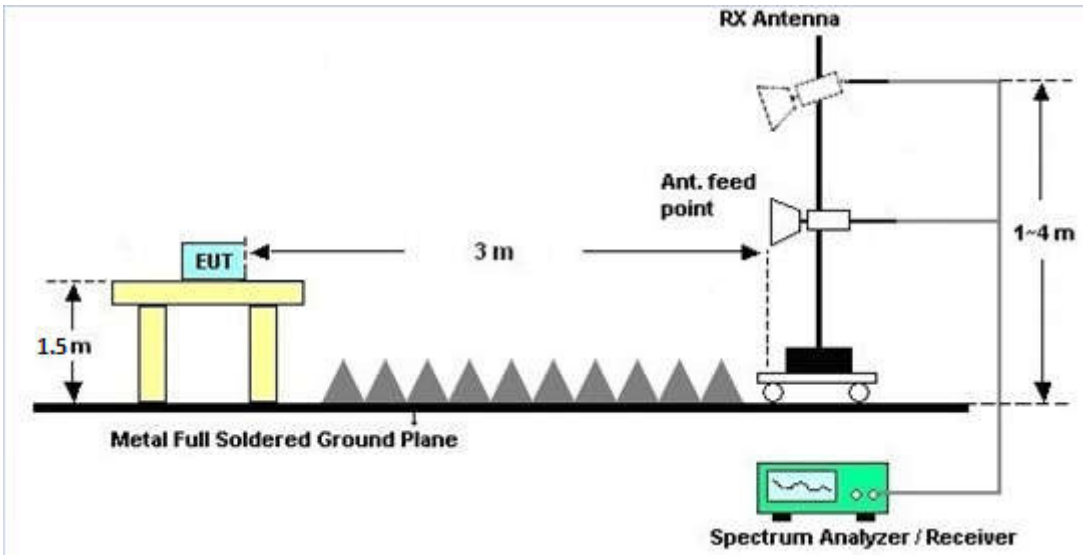
For radiated emissions below 30MHz



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.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.4.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.

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.

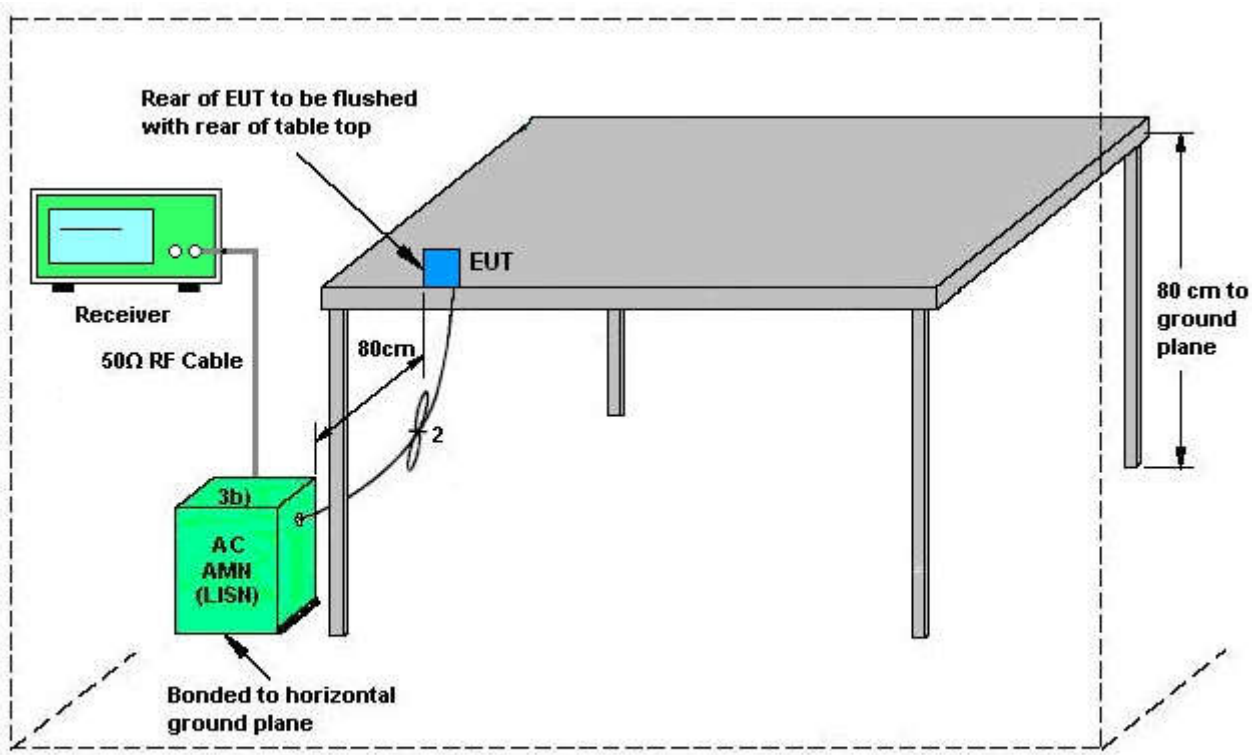
3.5.2 Measuring Instruments

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.

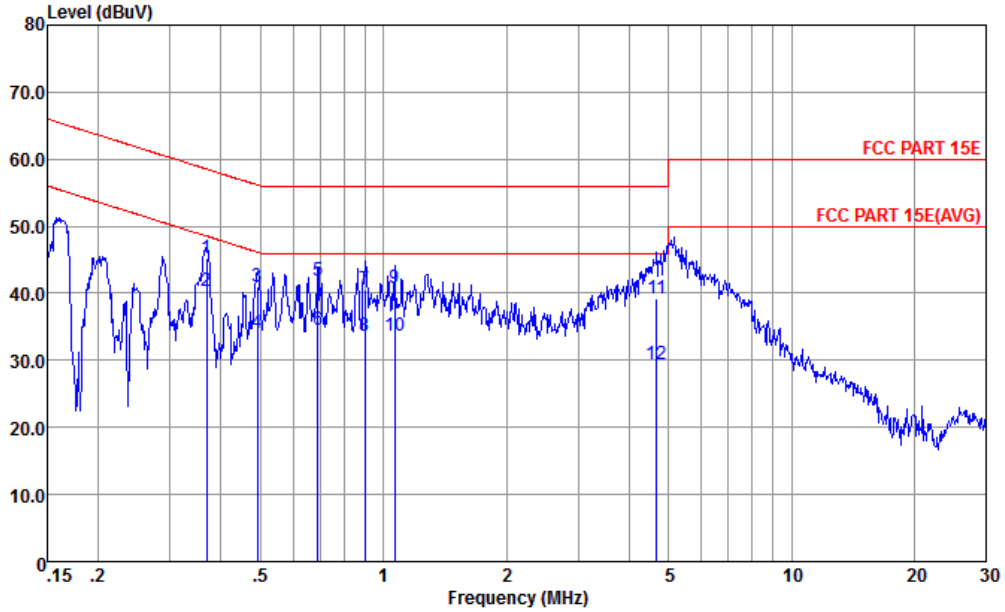
3.5.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

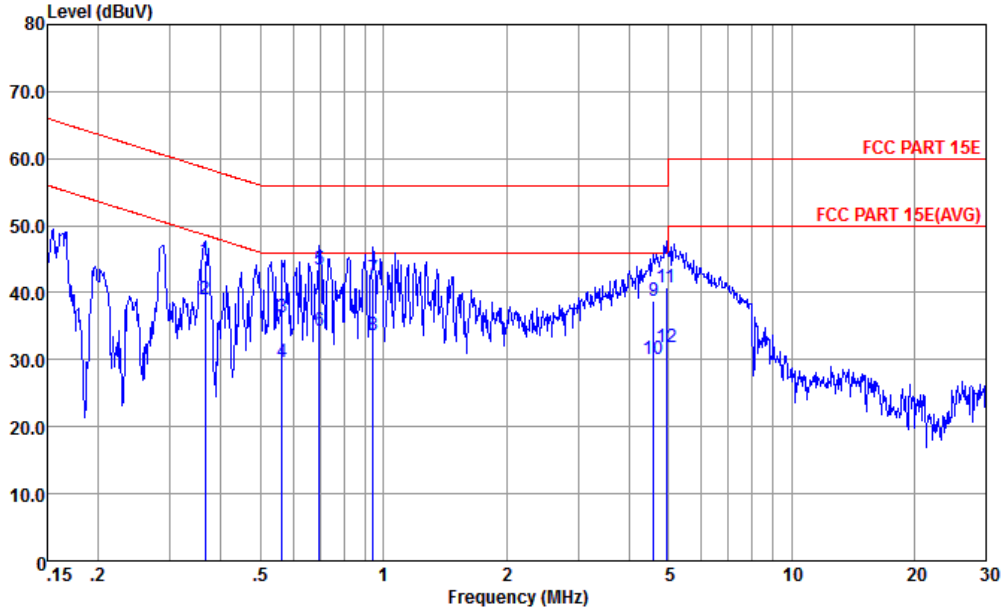
Test Mode :	Mode 1	**Temperature :**	21~23℃
Test Engineer :	Amos Zhang	**Relative Humidity :**	42~44%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	Bluetooth Link + WLAN Link (5G) + USB Cable 1(Charging from Adapter 1) + Earphone + Battery 1 for Sample 1		



Site : CO01-KS
Condition : FCC PART 15E LISN-L-171013-060103 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.369	45.15	-13.37	58.52	34.50	0.24	10.41	QP
2 *	0.369	40.25	-8.27	48.52	29.60	0.24	10.41	Average
3	0.491	41.07	-15.07	56.14	30.50	0.26	10.31	QP
4	0.491	34.17	-11.97	46.14	23.60	0.26	10.31	Average
5	0.690	41.93	-14.07	56.00	31.50	0.26	10.17	QP
6	0.690	34.63	-11.37	46.00	24.20	0.26	10.17	Average
7	0.899	40.57	-15.43	56.00	30.20	0.26	10.11	QP
8	0.899	33.57	-12.43	46.00	23.20	0.26	10.11	Average
9	1.065	40.88	-15.12	56.00	30.50	0.26	10.12	QP
10	1.065	33.68	-12.32	46.00	23.30	0.26	10.12	Average
11	4.672	39.18	-16.82	56.00	28.61	0.36	10.21	QP
12	4.672	29.48	-16.52	46.00	18.91	0.36	10.21	Average

Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Amos Zhang	Relative Humidity :	42~44%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Bluetooth Link + WLAN Link (5G) + USB Cable 1(Charging from Adapter 1) + Earphone + Battery 1 for Sample 1		



Site : CO01-KS
Condition : FCC PART 15E LISN-N-171013-060103 NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.365	44.90	-13.71	58.61	34.20	0.29	10.41	QP
2	*	0.365	39.00	-9.61	48.61	28.30	0.29	10.41	Average
3		0.564	36.35	-19.65	56.00	25.80	0.29	10.26	QP
4		0.564	29.75	-16.25	46.00	19.20	0.29	10.26	Average
5		0.697	43.36	-12.64	56.00	32.90	0.30	10.16	QP
6		0.697	34.36	-11.64	46.00	23.90	0.30	10.16	Average
7		0.943	42.01	-13.99	56.00	31.59	0.31	10.11	QP
8		0.943	33.61	-12.39	46.00	23.19	0.31	10.11	Average
9		4.598	38.75	-17.25	56.00	28.20	0.34	10.21	QP
10		4.598	30.15	-15.85	46.00	19.60	0.34	10.21	Average
11		4.926	40.77	-15.23	56.00	30.20	0.34	10.23	QP
12		4.926	31.77	-14.23	46.00	21.20	0.34	10.23	Average

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

4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 08, 2017	Jan. 21, 2018~ Feb. 27, 2018	Aug. 07, 2018	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 18, 2018	Jan. 21, 2018~ Feb. 27, 2018	Jan. 17, 2019	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 18, 2018	Jan. 21, 2018~ Feb. 27, 2018	Jan. 17, 2019	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 19, 2017	Mar. 01, 2018	Oct. 18, 2018	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2017	Mar. 01, 2018	Apr. 17, 2018	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 22, 2017	Mar. 01, 2018	Oct.21, 2018	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 22, 2017	Mar. 01, 2018	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Mar. 01, 2018	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	Com-Power	AH-840	101070	18GHz~40GHz	Dec. 06. 2017	Mar. 01, 2018	Dec. 05. 2018	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1000MHz / 32 dB	Apr. 18, 2017	Mar. 01, 2018	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18GHz~40GHz	Oct. 12, 2017	Mar. 01, 2018	Oct. 11, 2018	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1GHz~18GHz	Apr. 18. 2017	Mar. 01, 2018	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 12, 2017	Mar. 01, 2018	Oct. 11, 2018	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 01, 2018	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 01, 2018	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 01, 2018	NCR	Radiation (03CH03-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 20, 2017	Feb. 28, 2018	Apr. 19, 2018	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	Feb. 28, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	Feb. 28, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	Feb. 28, 2018	Oct. 11, 2018	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.3dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.5dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.5dB

Appendix A. Conducted Test Results

Test Engineer:	Silent Hai	Temperature:	21~25	°C
Test Date:	2018/1/21 ~ 2018/1/27	Relative Humidity:	51~55	%

Report Number : FR810906D

TEST RESULTS DATA
26dB and 99% OBW

Band I										
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)		
11a	6Mbps	1	36	5180	17.53	20.88	-	22.44		
11a	6Mbps	1	44	5220	17.73	20.88	-	22.49		
11a	6Mbps	1	48	5240	17.73	21.33	-	22.49		
HT20	MCS0	1	36	5180	18.33	21.68	-	22.63		
HT20	MCS0	1	44	5220	18.28	22.18	-	22.62		
HT20	MCS0	1	48	5240	18.28	21.68	-	22.62		
HT40	MCS0	1	38	5190	36.56	41.00	-	23.01		
HT40	MCS0	1	46	5230	36.16	40.73	-	23.01		

Report Number : FR810906D

TEST RESULTS DATA
Average Power Table

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	97.47	15.03	24.00	0.75		Pass
11a	6Mbps	1	44	5220	97.47	15.13	24.00	0.75		Pass
11a	6Mbps	1	48	5240	97.47	15.17	24.00	0.75		Pass
HT20	MCS0	1	36	5180	97.29	14.94	24.00	0.75		Pass
HT20	MCS0	1	44	5220	97.29	15.04	24.00	0.75		Pass
HT20	MCS0	1	48	5240	97.29	14.90	24.00	0.75		Pass
HT40	MCS0	1	38	5190	94.71	10.17	24.00	0.75		Pass
HT40	MCS0	1	46	5230	94.71	14.07	24.00	0.75		Pass

Report Number : FR810906D

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	5.20	11.00	0.75		Pass
11a	6Mbps	1	44	5220	0.11	5.55	11.00	0.75		Pass
11a	6Mbps	1	48	5240	0.11	5.52	11.00	0.75		Pass
HT20	MCS0	1	36	5180	0.12	5.27	11.00	0.75		Pass
HT20	MCS0	1	44	5220	0.12	5.10	11.00	0.75		Pass
HT20	MCS0	1	48	5240	0.12	5.21	11.00	0.75		Pass
HT40	MCS0	1	38	5190	0.24	-3.23	11.00	0.75		Pass
HT40	MCS0	1	46	5230	0.24	0.62	11.00	0.75		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	17.78	20.73	23.50	29.50	23.98	
11a	6M bps	1	60	5300	17.78	20.68	23.50	29.50	23.98	
11a	6M bps	1	64	5320	17.78	21.03	23.50	29.50	23.98	
HT20	MCS 0	1	52	5260	18.38	21.88	23.64	29.64	23.98	
HT20	MCS 0	1	60	5300	18.38	21.58	23.64	29.64	23.98	
HT20	MCS 0	1	64	5320	18.43	21.73	23.66	29.66	23.98	
HT40	MCS 0	1	54	5270	36.16	40.73	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.46	41.00	23.98	30.00	23.98	

Report Number : FR810906D

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	97.47	14.68	23.98	1.24	26.99	Pass
11a	6M bps	1	60	5300	97.47	14.70	23.98	1.24	26.99	Pass
11a	6M bps	1	64	5320	97.47	14.79	23.98	1.24	26.99	Pass
HT20	MCS 0	1	52	5260	97.29	14.75	23.98	1.24	26.99	Pass
HT20	MCS 0	1	60	5300	97.29	14.73	23.98	1.24	26.99	Pass
HT20	MCS 0	1	64	5320	97.29	14.71	23.98	1.24	26.99	Pass
HT40	MCS 0	1	54	5270	94.71	13.85	23.98	1.24	26.99	Pass
HT40	MCS 0	1	62	5310	94.71	11.23	23.98	1.24	26.99	Pass

Report Number : FR810906D

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	5.26	11.00	1.24		Pass
11a	6M bps	1	60	5300	0.11	5.12	11.00	1.24		Pass
11a	6M bps	1	64	5320	0.11	5.15	11.00	1.24		Pass
HT20	MCS 0	1	52	5260	0.12	4.93	11.00	1.24		Pass
HT20	MCS 0	1	60	5300	0.12	4.81	11.00	1.24		Pass
HT20	MCS 0	1	64	5320	0.12	5.04	11.00	1.24		Pass
HT40	MCS 0	1	54	5270	0.24	0.58	11.00	1.24		Pass
HT40	MCS 0	1	62	5310	0.24	-2.07	11.00	1.24		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	17.68	20.78	23.48	29.48	23.98	
11a	6M bps	1	116	5580	17.68	20.68	23.48	29.48	23.98	
11a	6M bps	1	140	5700	17.68	20.58	23.48	29.48	23.98	
11a	6Mbps	1	144	5720	17.88	20.78	23.52	29.52	23.98	
HT20	MCS 0	1	100	5500	18.28	21.23	23.62	29.62	23.98	
HT20	MCS 0	1	116	5580	18.33	21.13	23.63	29.63	23.98	
HT20	MCS 0	1	140	5700	18.38	21.58	23.64	29.64	23.98	
HT20	MCS0	1	144	5720	18.43	21.58	23.66	29.66	23.98	
HT40	MCS 0	1	102	5510	36.56	41.00	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	36.46	40.64	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	36.46	40.73	23.98	30.00	23.98	
HT40	MCS0	1	142	5710	36.46	40.82	23.98	30.00	23.98	

Report Number : FR810906D

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	97.47	13.80	23.98	2.37	26.99	Pass
11a	6M bps	1	116	5580	97.47	13.86	23.98	2.37	26.99	Pass
11a	6M bps	1	140	5700	97.47	14.06	23.98	2.37	26.99	Pass
11a	6Mbps	1	144	5720	97.47	14.07	23.98	2.37	26.99	Pass
HT20	MCS 0	1	100	5500	97.29	13.77	23.98	2.37	26.99	Pass
HT20	MCS 0	1	116	5580	97.29	13.87	23.98	2.37	26.99	Pass
HT20	MCS 0	1	140	5700	97.29	14.03	23.98	2.37	26.99	Pass
HT20	MCS0	1	144	5720	97.47	14.07	23.98	2.37	26.99	Pass
HT40	MCS 0	1	102	5510	94.71	10.75	23.98	2.37	26.99	Pass
HT40	MCS 0	1	110	5550	94.71	14.00	23.98	2.37	26.99	Pass
HT40	MCS 0	1	134	5670	94.71	14.08	23.98	2.37	26.99	Pass
HT40	MCS0	1	142	5710	94.71	14.10	23.98	2.37	26.99	Pass

Report Number : FR810906D

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	4.09	11.00	2.37		Pass
11a	6M bps	1	116	5580	0.11	4.12	11.00	2.37		Pass
11a	6M bps	1	140	5700	0.11	4.28	11.00	2.37		Pass
11a	6Mbps	1	144	5720	0.11	3.67	11.00	2.37		Pass
HT20	MCS 0	1	100	5500	0.12	3.80	11.00	2.37		Pass
HT20	MCS 0	1	116	5580	0.12	4.06	11.00	2.37		Pass
HT20	MCS 0	1	140	5700	0.12	4.11	11.00	2.37		Pass
HT20	MCS0	1	144	5720	0.12	3.23	11.00	2.37		Pass
HT40	MCS 0	1	102	5510	0.24	-3.12	11.00	2.37		Pass
HT40	MCS 0	1	110	5550	0.24	0.75	11.00	2.37		Pass
HT40	MCS 0	1	134	5670	0.24	0.86	11.00	2.37		Pass
HT40	MCS0	1	142	5710	0.24	0.54	11.00	2.37		Pass

Appendix B. Radiated Spurious Emission

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5143.68	58.98	-15.02	74	48.85	35.39	7.99	33.25	145	116	P	H
	!	5150	48.95	-5.05	54	38.82	35.39	7.99	33.25	145	116	A	H
	*	5182	109.61	-	-	99.51	35.36	7.99	33.25	145	116	P	H
	*	5182	102.47	-	-	92.37	35.36	7.99	33.25	145	116	A	H
		5150	57.08	-16.92	74	46.95	35.39	7.99	33.25	353	51	P	V
		5149.28	45.83	-8.17	54	35.7	35.39	7.99	33.25	353	51	A	V
	*	5178	105.51	-	-	95.41	35.36	7.99	33.25	353	51	P	V
	*	5178	98.01	-	-	87.91	35.36	7.99	33.25	353	51	A	V
802.11a CH 44 5220MHz		5148	56.58	-17.42	74	46.45	35.39	7.99	33.25	164	113	P	H
		5140.16	47.08	-6.92	54	36.95	35.39	7.99	33.25	164	113	A	H
	*	5222	109.6	-	-	99.49	35.34	8.01	33.24	164	113	P	H
	*	5222	102.04	-	-	91.93	35.34	8.01	33.24	164	113	A	H
		5384.16	54.7	-19.3	74	44.43	35.2	8.28	33.21	164	113	P	H
		5372.64	45.1	-8.9	54	34.85	35.22	8.25	33.22	164	113	A	H
		5147.68	54.65	-19.35	74	44.52	35.39	7.99	33.25	346	48	P	V
		5139.84	44.39	-9.61	54	34.26	35.39	7.99	33.25	346	48	A	V
	*	5220	105.52	-	-	95.41	35.34	8.01	33.24	346	48	P	V
	*	5220	98.43	-	-	88.32	35.34	8.01	33.24	346	48	A	V
		5350.14	52.65	-21.35	74	42.42	35.23	8.22	33.22	346	48	P	V
		5372.82	43.41	-10.59	54	33.16	35.22	8.25	33.22	346	48	A	V

802.11a CH 48 5240MHz	*	5238	109.45	-	-	99.33	35.32	8.04	33.24	164	112	P	H
	*	5238	102.12	-	-	92	35.32	8.04	33.24	164	112	A	H
		5376.06	53.26	-20.74	74	43.01	35.22	8.25	33.22	164	112	P	H
		5392.8	45.08	-8.92	54	34.81	35.2	8.28	33.21	164	112	A	H
	*	5242	105.24	-	-	95.1	35.31	8.07	33.24	387	54	P	V
	*	5242	97.47	-	-	87.33	35.31	8.07	33.24	387	54	A	V
		5377.5	52.69	-21.31	74	42.42	35.2	8.28	33.21	387	54	P	V
		5392.44	42.86	-11.14	54	32.59	35.2	8.28	33.21	387	54	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	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		10360	44.04	-29.96	74	57.45	38.47	11.94	63.82	100	360	P	H
		15546	49.68	-24.32	74	59.48	40.86	14.07	64.73	100	0	P	H
		10360	46.68	-27.32	74	60.09	38.47	11.94	63.82	100	360	P	V
		15546	51.69	-22.31	74	61.49	40.86	14.07	64.73	100	0	P	V
		15546	45.44	-8.56	54	55.24	40.86	14.07	64.73	100	0	A	V
802.11a CH 44 5220MHz		10440	44.7	-29.3	74	57.83	38.52	12.09	63.74	100	360	P	H
		15660	49.86	-24.14	74	59.91	40.78	14.15	64.98	100	0	P	H
		10440	50.21	-23.79	74	63.34	38.52	12.09	63.74	100	360	P	V
		15660	52.04	-21.96	74	62.09	40.78	14.15	64.98	100	184	P	V
		15660	46.38	-7.62	54	56.43	40.78	14.15	64.98	100	184	A	V
802.11a CH 48 5240MHz		10480	47.61	-26.39	74	60.53	38.56	12.21	63.69	100	360	P	H
		15720	50.06	-23.94	74	60.28	40.72	14.2	65.14	100	0	P	H
		10480	52.22	-21.78	74	65.14	38.56	12.21	63.69	100	360	P	V
		10480	43.54	-10.46	54	56.46	38.56	12.21	63.69	100	124	A	V
		15726	50.98	-23.02	74	61.2	40.72	14.2	65.14	100	0	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)

WIFI	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 5180MHz		5146.56	57.59	-16.41	74	47.46	35.39	7.99	33.25	100	245	P	H
		5150	47.77	-6.23	54	37.64	35.39	7.99	33.25	100	245	A	H
	*	5182	107.02	-	-	96.92	35.36	7.99	33.25	100	245	P	H
	*	5182	99.79	-	-	89.69	35.36	7.99	33.25	100	245	A	H
		5149.6	53.8	-20.2	74	43.67	35.39	7.99	33.25	100	136	P	V
		5149.76	44.17	-9.83	54	34.04	35.39	7.99	33.25	100	136	A	V
	*	5180	100.67	-	-	90.57	35.36	7.99	33.25	100	136	P	V
	*	5180	93.41	-	-	83.31	35.36	7.99	33.25	100	136	A	V
802.11n HT20 CH 44 5220MHz		5148.32	54.96	-19.04	74	44.83	35.39	7.99	33.25	100	243	P	H
		5140	45.41	-8.59	54	35.28	35.39	7.99	33.25	100	243	A	H
	*	5222	107.35	-	-	97.24	35.34	8.01	33.24	100	243	P	H
	*	5222	100.21	-	-	90.1	35.34	8.01	33.24	100	243	A	H
		5375.52	52.43	-21.57	74	42.18	35.22	8.25	33.22	100	243	P	H
		5373	43.51	-10.49	54	33.26	35.22	8.25	33.22	100	243	A	H
		5133.6	52.07	-21.93	74	41.93	35.41	7.99	33.26	302	190	P	V
		5112.8	42.77	-11.23	54	32.62	35.42	7.99	33.26	302	190	A	V
	*	5222	102.45	-	-	92.34	35.34	8.01	33.24	302	190	P	V
	*	5222	95.4	-	-	85.29	35.34	8.01	33.24	302	190	A	V
		5374.44	50.32	-23.68	74	40.07	35.22	8.25	33.22	302	190	P	V
		5374.98	41.64	-12.36	54	31.39	35.22	8.25	33.22	302	190	A	V

802.11n HT20 CH 48 5240MHz	*	5242	107.22	-	-	97.08	35.31	8.07	33.24	101	72	P	H
	*	5242	99.89	-	-	89.75	35.31	8.07	33.24	101	72	A	H
		5375.34	52.89	-21.11	74	42.64	35.22	8.25	33.22	101	72	P	H
		5392.08	43.21	-10.79	54	32.94	35.2	8.28	33.21	101	72	A	H
	*	5238	102.23	-	-	92.11	35.32	8.04	33.24	100	316	P	V
	*	5238	94.88	-	-	84.76	35.32	8.04	33.24	100	316	A	V
		5387.04	52.33	-21.67	74	42.06	35.2	8.28	33.21	100	316	P	V
		5392.08	42.27	-11.73	54	32	35.2	8.28	33.21	100	316	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 HT20 (Harmonic @ 3m)

WIFI	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 5180MHz		10360	45.33	-28.67	74	58.74	38.47	11.94	63.82	100	360	P	H
		15540	54.48	-19.52	74	64.24	40.87	14.06	64.69	100	66	P	H
		15540	46.86	-7.14	54	56.62	40.87	14.06	64.69	100	66	A	H
		10360	46.78	-27.22	74	60.19	38.47	11.94	63.82	100	0	P	V
		15546	50.69	-23.31	74	60.49	40.86	14.07	64.73	100	360	P	V
802.11n HT20 CH 44 5220MHz		10440	45.6	-28.4	74	58.73	38.52	12.09	63.74	100	360	P	H
		15660	50.63	-23.37	74	60.68	40.78	14.15	64.98	100	0	P	H
		10440	48.31	-25.69	74	61.44	38.52	12.09	63.74	100	360	P	V
		15660	51.2	-22.8	74	61.25	40.78	14.15	64.98	100	87	P	V
		15660	46.43	-7.57	54	56.48	40.78	14.15	64.98	100	87	A	V
802.11n HT20 CH 48 5240MHz		10480	44.41	-29.59	74	57.33	38.56	12.21	63.69	100	0	P	H
		15726	50.29	-23.71	74	60.51	40.72	14.2	65.14	300	360	P	H
		10480	50.56	-23.44	74	63.48	38.56	12.21	63.69	300	0	P	V
		15726	54.58	-19.42	74	64.8	40.72	14.2	65.14	300	286	P	V
		15726	46.26	-7.74	54	56.48	40.72	14.2	65.14	300	286	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 (Band Edge @ 3m)

WIFI	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		5149.76	62.41	-11.59	74	52.28	35.39	7.99	33.25	100	101	P	H
	!	5149.76	50.62	-3.38	54	40.49	35.39	7.99	33.25	100	101	A	H
	*	5196	100.97	-	-	90.88	35.35	7.99	33.25	100	101	P	H
	*	5196	93.7	-	-	83.61	35.35	7.99	33.25	100	101	A	H
		5351.22	52.16	-21.84	74	41.93	35.23	8.22	33.22	100	101	P	H
		5374.26	43.3	-10.7	54	33.05	35.22	8.25	33.22	100	101	A	H
		5146.56	56.1	-17.9	74	45.97	35.39	7.99	33.25	327	156	P	V
		5149.44	46.13	-7.87	54	36	35.39	7.99	33.25	327	156	A	V
	*	5186	94.8	-	-	84.7	35.36	7.99	33.25	327	156	P	V
	*	5186	87.33	-	-	77.23	35.36	7.99	33.25	327	156	A	V
		5385.24	52.2	-21.8	74	41.93	35.2	8.28	33.21	327	156	P	V
		5373.72	42.82	-11.18	54	32.57	35.22	8.25	33.22	327	156	A	V
802.11n HT40 CH 46 5230MHz		5137.44	54.56	-19.44	74	44.42	35.41	7.99	33.26	128	95	P	H
		5148.96	44.93	-9.07	54	34.8	35.39	7.99	33.25	128	95	A	H
	*	5238	103.8	-	-	93.68	35.32	8.04	33.24	128	95	P	H
	*	5238	96.38	-	-	86.26	35.32	8.04	33.24	128	95	A	H
		5379.84	53.41	-20.59	74	43.14	35.2	8.28	33.21	128	95	P	H
		5380.02	44.26	-9.74	54	33.99	35.2	8.28	33.21	128	95	A	H
		5128.16	53.25	-20.75	74	43.11	35.41	7.99	33.26	342	66	P	V
		5145.6	44.03	-9.97	54	33.9	35.39	7.99	33.25	342	66	A	V
	*	5222	99.53	-	-	89.42	35.34	8.01	33.24	342	66	P	V
	*	5222	91.86	-	-	81.75	35.34	8.01	33.24	342	66	A	V
		5378.4	51.74	-22.26	74	41.47	35.2	8.28	33.21	342	66	P	V
		5378.94	42.94	-11.06	54	32.67	35.2	8.28	33.21	342	66	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	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		10380	43.24	-30.76	74	56.58	38.48	11.98	63.8	100	360	P	H
		15570	43.15	-30.85	74	53	40.84	14.08	64.77	100	0	P	H
		10380	44.34	-29.66	74	57.68	38.48	11.98	63.8	100	360	P	V
		15570	43.78	-30.22	74	53.63	40.84	14.08	64.77	100	0	P	V
802.11n HT40 CH 46 5230MHz		10460	44.69	-29.31	74	57.75	38.53	12.13	63.72	100	360	P	H
		15690	45.42	-28.58	74	55.56	40.75	14.17	65.06	100	0	P	H
		10460	47.35	-26.65	74	60.41	38.53	12.13	63.72	100	360	P	V
		15690	45.75	-28.25	74	55.89	40.75	14.17	65.06	100	0	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	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5147.52	53.78	-20.22	74	43.65	35.39	7.99	33.25	148	114	P	H
		5107.68	44.27	-9.73	54	34.12	35.42	7.99	33.26	148	114	A	H
	*	5262	109.35	-	-	99.19	35.3	8.09	33.23	148	114	P	H
	*	5262	101.94	-	-	91.78	35.3	8.09	33.23	148	114	A	H
		5120.16	54	-20	74	43.85	35.42	7.99	33.26	300	50	P	V
		5115.2	43.54	-10.46	54	33.39	35.42	7.99	33.26	300	50	A	V
	*	5262	105.17	-	-	95.01	35.3	8.09	33.23	300	50	P	V
	*	5262	97.47	-	-	87.31	35.3	8.09	33.23	300	50	A	V
802.11a CH 60 5300MHz		5141.12	54.5	-19.5	74	44.37	35.39	7.99	33.25	158	111	P	H
		5147.36	44.19	-9.81	54	34.06	35.39	7.99	33.25	158	111	A	H
	*	5298	109.34	-	-	99.15	35.27	8.15	33.23	158	111	P	H
	*	5298	101.89	-	-	91.7	35.27	8.15	33.23	158	111	A	H
		5352.6	57.32	-16.68	74	47.09	35.23	8.22	33.22	158	111	P	H
	!	5350.7	48.28	-5.72	54	38.05	35.23	8.22	33.22	158	111	A	H
		5112.64	53.26	-20.74	74	43.11	35.42	7.99	33.26	298	51	P	V
		5136.32	43.35	-10.65	54	33.21	35.41	7.99	33.26	298	51	A	V
	*	5300	97.45	-	-	87.26	35.27	8.15	33.23	298	51	P	V
	*	5300	105.14	-	-	94.95	35.27	8.15	33.23	298	51	A	V
		5351.9	53.88	-20.12	74	43.65	35.23	8.22	33.22	298	51	P	V
		5351	44.72	-9.28	54	34.49	35.23	8.22	33.22	298	51	A	V

802.11a CH 64 5320MHz	*	5322	109.73	-	-	99.53	35.26	8.17	33.23	161	111	P	H
	*	5322	102.34	-	-	92.14	35.26	8.17	33.23	161	111	A	H
		5350	58.22	-15.78	74	47.99	35.23	8.22	33.22	161	111	P	H
	!	5350.7	49.46	-4.54	54	39.23	35.23	8.22	33.22	161	111	A	H
	*	5322	104.17	-	-	93.97	35.26	8.17	33.23	300	30	P	V
	*	5322	96.74	-	-	86.54	35.26	8.17	33.23	300	30	A	V
		5374.8	54.26	-19.74	74	44.01	35.22	8.25	33.22	300	30	P	V
		5350.6	44.8	-9.2	54	34.57	35.23	8.22	33.22	300	30	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	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		10520	44.16	-29.84	74	56.95	38.58	12.28	63.65	100	360	P	H
		15786	50.07	-23.93	74	60.46	40.67	14.25	65.31	100	0	P	H
		10520	49.88	-24.12	74	62.67	38.58	12.28	63.65	100	360	P	V
		15780	50.53	-23.47	74	60.87	40.68	14.24	65.26	100	0	P	V
802.11a CH 60 5300MHz		10600	43.82	-30.18	74	56.26	38.64	12.47	63.55	100	360	P	H
		10600	48.99	-25.01	74	61.43	38.64	12.47	63.55	100	360	P	V
802.11a CH 64 5320MHz		10640	44.58	-29.42	74	56.88	38.67	12.55	63.52	100	360	P	H
		10640	48.51	-25.49	74	60.81	38.67	12.55	63.52	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)

WIFI	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		5143.52	53.22	-20.78	74	43.09	35.39	7.99	33.25	102	80	P	H
		5108	43.72	-10.28	54	33.57	35.42	7.99	33.26	102	80	A	H
	*	5258	106.62	-	-	96.48	35.31	8.07	33.24	102	80	P	H
	*	5258	98.81	-	-	88.67	35.31	8.07	33.24	102	80	A	H
		5127.68	53.05	-20.95	74	42.91	35.41	7.99	33.26	100	319	P	V
		5126.24	43.23	-10.77	54	33.09	35.41	7.99	33.26	100	319	A	V
	*	5262	102.42	-	-	92.26	35.3	8.09	33.23	100	319	P	V
	*	5262	95.3	-	-	85.14	35.3	8.09	33.23	100	319	A	V
802.11n HT20 CH 60 5300MHz		5148.48	53.28	-20.72	74	43.15	35.39	7.99	33.25	102	72	P	H
		5147.84	43.53	-10.47	54	33.4	35.39	7.99	33.25	102	72	A	H
	*	5302	107.05	-	-	96.86	35.27	8.15	33.23	102	72	P	H
	*	5302	98.24	-	-	88.05	35.27	8.15	33.23	102	72	A	H
		5371.5	54.47	-19.53	74	44.22	35.22	8.25	33.22	102	72	P	H
		5350.01	45.14	-8.86	54	34.91	35.23	8.22	33.22	102	72	A	H
		5148.16	52.91	-21.09	74	42.78	35.39	7.99	33.25	100	317	P	V
		5114.72	43.16	-10.84	54	33.01	35.42	7.99	33.26	100	317	A	V
	*	5302	102.25	-	-	92.06	35.27	8.15	33.23	100	317	P	V
	*	5302	95.06	-	-	84.87	35.27	8.15	33.23	100	317	A	V
		5358.9	53.05	-20.95	74	42.82	35.23	8.22	33.22	100	317	P	V
		5351.8	43.77	-10.23	54	33.54	35.23	8.22	33.22	100	317	A	V

802.11n HT20 CH 64 5320MHz	*	5320	106.55	-	-	96.35	35.26	8.17	33.23	100	70	P	H
	*	5320	98.92	-	-	88.72	35.26	8.17	33.23	100	70	A	H
		5350.1	60.07	-13.93	74	49.84	35.23	8.22	33.22	100	70	P	H
		5350.3	46.06	-7.94	54	35.83	35.23	8.22	33.22	100	70	A	H
	*	5320	101.97	-	-	91.77	35.26	8.17	33.23	100	317	P	V
	*	5320	95.1	-	-	84.9	35.26	8.17	33.23	100	317	A	V
		5370	53.3	-20.7	74	43.05	35.22	8.25	33.22	100	317	P	V
		5350.5	44.34	-9.66	54	34.11	35.23	8.22	33.22	100	317	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 HT20 (Harmonic @ 3m)

WIFI	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		10520	43.35	-30.65	74	56.14	38.58	12.28	63.65	100	0	P	H
		15780	49.39	-24.61	74	59.73	40.68	14.24	65.26	100	360	P	H
		10520	46.06	-27.94	74	58.85	38.58	12.28	63.65	100	360	P	V
		15780	52.33	-21.67	74	62.67	40.68	14.24	65.26	110	301	P	V
		15780	45.74	-8.26	54	56.08	40.68	14.24	65.26	110	301	A	V
802.11n HT20 CH 60 5300MHz		10600	42.22	-31.78	74	54.66	38.64	12.47	63.55	100	0	P	H
		15906	48.77	-25.23	74	59.45	40.57	14.34	65.59	100	360	P	H
		10600	45.9	-28.1	74	58.34	38.64	12.47	63.55	100	360	P	V
		15894	50.01	-23.99	74	60.65	40.58	14.33	65.55	200	360	P	V
802.11n HT20 CH 64 5320MHz		10640	44.72	-29.28	74	57.02	38.67	12.55	63.52	100	0	P	H
		15960	49.94	-24.06	74	60.75	40.53	14.38	65.72	100	360	P	H
		10640	49.1	-24.9	74	61.4	38.67	12.55	63.52	100	360	P	V
		15954	50.64	-23.36	74	61.45	40.53	14.38	65.72	300	0	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	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 54 5270MHz		5121.28	54.2	-19.8	74	44.05	35.42	7.99	33.26	109	95	P	H
		5136.32	44.37	-9.63	54	34.23	35.41	7.99	33.26	109	95	A	H
	*	5272	103.97	-	-	93.81	35.3	8.09	33.23	109	95	P	H
	*	5272	96.31	-	-	86.15	35.3	8.09	33.23	109	95	A	H
		5372.4	54.53	-19.47	74	44.28	35.22	8.25	33.22	109	95	P	H
		5351.8	45.62	-8.38	54	35.39	35.23	8.22	33.22	109	95	A	H
		5121.76	53.19	-20.81	74	43.04	35.42	7.99	33.26	100	335	P	V
		5124.48	43.84	-10.16	54	33.7	35.41	7.99	33.26	100	335	A	V
	*	5268	99.45	-	-	89.29	35.3	8.09	33.23	100	335	P	V
	*	5268	92.06	-	-	81.9	35.3	8.09	33.23	100	335	A	V
		5363.4	52.55	-21.45	74	42.3	35.22	8.25	33.22	100	335	P	V
		5352.1	43.2	-10.8	54	32.97	35.23	8.22	33.22	100	335	A	V
802.11n HT40 CH 62 5310MHz		5126.56	52.73	-21.27	74	42.59	35.41	7.99	33.26	100	93	P	H
		5129.28	43.82	-10.18	54	33.68	35.41	7.99	33.26	100	93	A	H
	*	5314	100.93	-	-	90.73	35.26	8.17	33.23	100	93	P	H
	*	5314	93.37	-	-	83.17	35.26	8.17	33.23	100	93	A	H
		5350.7	61.71	-12.29	74	51.48	35.23	8.22	33.22	100	93	P	H
	!	5350	50.53	-3.47	54	40.3	35.23	8.22	33.22	100	93	A	H
		5129.28	52.96	-21.04	74	42.82	35.41	7.99	33.26	100	320	P	V
		5128.32	43.86	-10.14	54	33.72	35.41	7.99	33.26	100	320	A	V
	*	5304	95.75	-	-	85.56	35.27	8.15	33.23	100	320	P	V
	*	5304	88.84	-	-	78.65	35.27	8.15	33.23	100	320	A	V
		5351.7	61.89	-12.11	74	51.66	35.23	8.22	33.22	100	320	P	V
		5350.5	46.36	-7.64	54	36.13	35.23	8.22	33.22	100	320	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)

WIFI	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 54 5270MHz		10540	44.31	-29.69	74	57.02	38.6	12.32	63.63	100	360	P	H
		15810	46.16	-27.84	74	56.6	40.65	14.26	65.35	100	0	P	H
		10540	46.22	-27.78	74	58.93	38.6	12.32	63.63	100	360	P	V
		15810	47.42	-26.58	74	57.86	40.65	14.26	65.35	100	0	P	V
802.11n HT40 CH 62 5310MHz		10620	44.47	-29.53	74	56.84	38.66	12.51	63.54	100	360	P	H
		15930	45.37	-28.63	74	56.1	40.56	14.35	65.64	100	0	P	H
		10620	44.82	-29.18	74	57.19	38.66	12.51	63.54	100	360	P	V
		15930	45.86	-28.14	74	56.59	40.56	14.35	65.64	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5463.12	57.26	-16.74	74	46.93	35.14	8.39	33.2	162	110	P	H
	!	5469.84	48.56	-5.44	54	38.23	35.14	8.39	33.2	162	110	A	H
	*	5500	107.25	-	-	96.91	35.11	8.43	33.2	162	110	P	H
	*	5500	100.39	-	-	90.05	35.11	8.43	33.2	162	110	A	H
		5460.4	53.86	-20.14	74	43.54	35.15	8.37	33.2	298	29	P	V
		5468.56	44.49	-9.51	54	34.16	35.14	8.39	33.2	298	29	A	V
	*	5502	100.96	-	-	90.62	35.11	8.43	33.2	298	29	P	V
	*	5502	94.1	-	-	83.76	35.11	8.43	33.2	298	29	A	V
802.11a CH 116 5580MHz		5446	54.57	-19.43	74	44.25	35.15	8.37	33.2	170	113	P	H
		5427.44	44.37	-9.63	54	34.08	35.18	8.32	33.21	170	113	A	H
	*	5582	106.96	-	-	96.57	35.04	8.53	33.18	170	113	P	H
	*	5582	99.45	-	-	89.06	35.04	8.53	33.18	170	113	A	H
		5751.56	53.54	-20.46	74	43.23	34.89	8.59	33.17	170	113	P	H
		5733.4	43.13	-10.87	54	32.8	34.92	8.58	33.17	170	113	A	H
		5387.28	51.7	-22.3	74	41.43	35.2	8.28	33.21	372	341	P	V
		5463.44	42.61	-11.39	54	32.28	35.14	8.39	33.2	372	341	A	V
	*	5582	101.93	-	-	91.54	35.04	8.53	33.18	372	341	P	V
	*	5582	94.56	-	-	84.17	35.04	8.53	33.18	372	341	A	V
		5738.36	52.95	-21.05	74	42.62	34.91	8.59	33.17	372	341	P	V
		5733.48	42.77	-11.23	54	32.44	34.92	8.58	33.17	372	341	A	V

802.11a CH 140 5700MHz	*	5698	104.34	-	-	93.99	34.95	8.57	33.17	195	112	P	H
	*	5698	96.57	-	-	86.22	34.95	8.57	33.17	195	112	A	H
		5730.52	55.42	-18.58	74	45.09	34.92	8.58	33.17	195	112	P	H
		5726.28	45.61	-8.39	54	35.28	34.92	8.58	33.17	195	112	A	H
	*	5702	101.41	-	-	91.06	34.94	8.58	33.17	369	4	P	V
	*	5702	93.46	-	-	83.11	34.94	8.58	33.17	369	4	A	V
		5728.76	53.65	-20.35	74	43.32	34.92	8.58	33.17	369	4	P	V
		5725.24	44.21	-9.79	54	33.88	34.92	8.58	33.17	369	4	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	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		11000	45.31	-28.69	74	56.16	38.93	13.34	63.12	100	360	P	H
		16493	50.74	-23.26	74	60.11	40.84	14.71	64.92	100	0	P	H
		11000	46.65	-27.35	74	57.5	38.93	13.34	63.12	100	360	P	V
		16500	52.36	-21.64	74	61.66	40.86	14.73	64.89	100	0	P	V
		16500	44.52	-9.48	54	53.82	40.86	14.73	64.89	100	216	A	V
802.11a CH 116 5580MHz		11160	46.98	-27.02	74	57.68	39.05	13.19	62.94	100	360	P	H
		16740	52.75	-21.25	74	61.33	41.02	14.87	64.47	100	0	P	H
		16740	43.44	-10.56	54	52.02	41.02	14.87	64.47	100	169	A	H
		11160	48.05	-25.95	74	58.75	39.05	13.19	62.94	100	360	P	V
		16740	54.04	-19.96	74	62.62	41.02	14.87	64.47	100	0	P	V
		16740	46.26	-7.74	54	54.84	41.02	14.87	64.47	100	102	A	V
802.11a CH 140 5700MHz		11400	45.44	-28.56	74	55.89	39.23	12.99	62.67	100	360	P	H
		11400	49.1	-24.9	74	59.55	39.23	12.99	62.67	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)

WIFI	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 100 5500MHz		5466.8	55.48	-18.52	74	45.15	35.14	8.39	33.2	280	110	P	H
		5469.84	45.85	-8.15	54	35.52	35.14	8.39	33.2	280	110	A	H
	*	5500	105.47	-	-	95.13	35.11	8.43	33.2	280	110	P	H
	*	5500	98.44	-	-	88.1	35.11	8.43	33.2	280	110	A	H
		5466.32	53.37	-20.63	74	43.04	35.14	8.39	33.2	359	19	P	V
		5469.68	43.81	-10.19	54	33.48	35.14	8.39	33.2	359	19	A	V
	*	5500	101.63	-	-	91.29	35.11	8.43	33.2	359	19	P	V
	*	5500	95	-	-	84.66	35.11	8.43	33.2	359	19	A	V
802.11n HT20 CH 116 5580MHz		5463.28	53.25	-20.75	74	42.92	35.14	8.39	33.2	108	138	P	H
		5466.48	43.21	-10.79	54	32.88	35.14	8.39	33.2	108	138	A	H
	*	5582	104.89	-	-	94.5	35.04	8.53	33.18	108	138	P	H
	*	5582	97.51	-	-	87.12	35.04	8.53	33.18	108	138	A	H
		5743.72	52.54	-21.46	74	42.21	34.91	8.59	33.17	108	138	P	H
		5733.88	42.78	-11.22	54	32.45	34.92	8.58	33.17	108	138	A	H
		5392.56	52.17	-21.83	74	41.9	35.2	8.28	33.21	100	316	P	V
		5428.4	42.75	-11.25	54	32.46	35.18	8.32	33.21	100	316	A	V
	*	5578	99.7	-	-	89.32	35.05	8.51	33.18	100	316	P	V
	*	5578	92.74	-	-	82.36	35.05	8.51	33.18	100	316	A	V
		5744.2	52.21	-21.79	74	41.88	34.91	8.59	33.17	100	316	P	V
		5735.08	42.63	-11.37	54	32.3	34.91	8.59	33.17	100	316	A	V

802.11n HT20 CH 140 5700MHz	*	5702	104.72	-	-	94.37	34.94	8.58	33.17	100	98	P	H
	*	5702	96.72	-	-	86.37	34.94	8.58	33.17	100	98	A	H
		5725.24	58.16	-15.84	74	47.83	34.92	8.58	33.17	100	98	P	H
		5725	46.64	-7.36	54	36.31	34.92	8.58	33.17	100	98	A	H
	*	5702	99.56	-	-	89.21	34.94	8.58	33.17	102	319	P	V
	*	5702	91.81	-	-	81.46	34.94	8.58	33.17	102	319	A	V
		5725.24	54.78	-19.22	74	44.45	34.92	8.58	33.17	102	319	P	V
		5725.16	44.09	-9.91	54	33.76	34.92	8.58	33.17	102	319	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)

WIFI	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 100 5500MHz		11000	47.21	-26.79	74	58.06	38.93	13.34	63.12	100	360	P	H
		16500	53.73	-20.27	74	63.03	40.86	14.73	64.89	100	152	P	H
		16500	43.19	-10.81	54	52.49	40.86	14.73	64.89	100	152	A	H
		10995	48.77	-25.23	74	59.62	38.93	13.34	63.12	100	360	P	V
		16494	55.13	-18.87	74	64.5	40.84	14.71	64.92	100	79	P	V
		16494	44.14	-9.86	54	53.51	40.84	14.71	64.92	100	79	A	V
802.11n HT20 CH 116 5580MHz		11160	47.17	-26.83	74	57.87	39.05	13.19	62.94	100	360	P	H
		16740	52.21	-21.79	74	60.79	41.02	14.87	64.47	100	153	P	H
		16740	46.6	-7.4	54	55.18	41.02	14.87	64.47	100	153	A	H
		11160	46.68	-27.32	74	57.38	39.05	13.19	62.94	100	360	P	V
		16740	51.61	-22.39	74	60.19	41.02	14.87	64.47	100	80	P	V
		16740	46.86	-7.14	54	55.44	41.02	14.87	64.47	100	80	A	V
802.11n HT20 CH 140 5700MHz		11400	46.16	-27.84	74	56.61	39.23	12.99	62.67	100	360	P	H
		17100	54.02	-19.98	74	61.8	41.22	15.05	64.05	100	82	P	H
		17100	47.6	-6.4	54	55.38	41.22	15.05	64.05	100	82	A	H
		11400	47.62	-26.38	74	58.07	39.23	12.99	62.67	100	360	P	V
		17100	53.59	-20.41	74	61.37	41.22	15.05	64.05	100	133	P	V
		17100	46.78	-7.22	54	54.56	41.22	15.05	64.05	100	133	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 HT40 (Band Edge @ 3m)

WIFI	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		5469.2	62.95	-11.05	74	52.62	35.14	8.39	33.2	336	95	P	H
	!	5469.84	50.46	-3.54	54	40.13	35.14	8.39	33.2	336	95	A	H
	*	5508	99.65	-	-	89.31	35.11	8.43	33.2	336	95	P	H
	*	5508	92.61	-	-	82.27	35.11	8.43	33.2	336	95	A	H
		5738.2	51.79	-22.21	74	41.46	34.91	8.59	33.17	336	95	P	H
		5742.92	42.78	-11.22	54	32.45	34.91	8.59	33.17	336	95	A	H
		5465.2	53.99	-20.01	74	43.66	35.14	8.39	33.2	282	26	P	V
		5468.72	45.01	-8.99	54	34.68	35.14	8.39	33.2	282	26	A	V
	*	5504	93.81	-	-	83.47	35.11	8.43	33.2	282	26	P	V
	*	5504	86.83	-	-	76.49	35.11	8.43	33.2	282	26	A	V
		5748.92	52.15	-21.85	74	41.82	34.91	8.59	33.17	282	26	P	V
		5731.8	42.83	-11.17	54	32.5	34.92	8.58	33.17	282	26	A	V
802.11n HT40 CH 110 5550MHz		5463.44	54.47	-19.53	74	44.14	35.14	8.39	33.2	314	90	P	H
		5464.56	45.29	-8.71	54	34.96	35.14	8.39	33.2	314	90	A	H
	*	5544	103.05	-	-	92.69	35.08	8.47	33.19	314	90	P	H
	*	5544	96.06	-	-	85.7	35.08	8.47	33.19	314	90	A	H
		5732.12	52.71	-21.29	74	42.38	34.92	8.58	33.17	314	90	P	H
		5735.32	43.2	-10.8	54	32.87	34.91	8.59	33.17	314	90	A	H
		5457.04	52.14	-21.86	74	41.82	35.15	8.37	33.2	351	215	P	V
		5452.4	43	-11	54	32.68	35.15	8.37	33.2	351	215	A	V
	*	5548	98.43	-	-	88.06	35.07	8.49	33.19	351	215	P	V
	*	5548	90.6	-	-	80.23	35.07	8.49	33.19	351	215	A	V
		5740.2	51.77	-22.23	74	41.44	34.91	8.59	33.17	351	215	P	V
		5726.92	42.95	-11.05	54	32.62	34.92	8.58	33.17	351	215	A	V

802.11n HT40 CH 134 5670MHz		5466.96	51.92	-22.08	74	41.59	35.14	8.39	33.2	270	104	P	H
		5458.48	43.27	-10.73	54	32.95	35.15	8.37	33.2	270	104	A	H
	*	5676	102.14	-	-	91.77	34.97	8.57	33.17	270	104	P	H
	*	5676	94.22	-	-	83.85	34.97	8.57	33.17	270	104	A	H
		5725.48	55.92	-18.08	74	45.59	34.92	8.58	33.17	270	104	P	H
		5726.36	45.31	-8.69	54	34.98	34.92	8.58	33.17	270	104	A	H
		5462.8	51.39	-22.61	74	41.06	35.14	8.39	33.2	301	24	P	V
		5468.72	43	-11	54	32.67	35.14	8.39	33.2	301	24	A	V
	*	5672	101.57	-	-	91.2	34.97	8.57	33.17	301	24	P	V
	*	5672	94.15	-	-	83.78	34.97	8.57	33.17	301	24	A	V
		5725.24	54.97	-19.03	74	44.64	34.92	8.58	33.17	301	24	P	V
		5727.72	44.52	-9.48	54	34.19	34.92	8.58	33.17	301	24	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 HT40 (Harmonic @ 3m)

WIFI	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		11020	45.13	-28.87	74	55.97	38.94	13.32	63.1	100	360	P	H
HT40		16530	45.37	-28.63	74	54.57	40.88	14.75	64.83	100	0	P	H
CH 102		11020	47.02	-26.98	74	57.86	38.94	13.32	63.1	100	360	P	V
5510MHz		16530	45.04	-28.96	74	54.24	40.88	14.75	64.83	100	0	P	V
802.11n		11100	45.62	-28.38	74	56.38	39	13.25	63.01	100	360	P	H
HT40		16650	49.21	-24.79	74	58.05	40.96	14.82	64.62	100	0	P	H
CH 110		11100	46.69	-27.31	74	57.45	39	13.25	63.01	100	360	P	V
5550MHz		16650	49.75	-24.25	74	58.59	40.96	14.82	64.62	100	0	P	V
802.11n		11340	46.17	-27.83	74	56.7	39.18	13.04	62.75	100	360	P	H
HT40		17010	47.68	-26.32	74	55.46	41.2	15.04	64.02	100	0	P	H
CH 134		11340	46.29	-27.71	74	56.82	39.18	13.04	62.75	100	360	P	V
5670MHz		17010	46.59	-27.41	74	54.37	41.2	15.04	64.02	100	0	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 Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5720	106.82	32.82	74	96.49	34.92	8.58	33.17	100	96	P	H
	*	5720	98.9	44.9	54	88.57	34.92	8.58	33.17	100	96	A	H
	*	5718	103.11	29.11	74	92.78	34.92	8.58	33.17	299	15	P	V
	*	5718	95.03	41.03	54	84.7	34.92	8.58	33.17	299	15	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)

WIFI Ant. 1	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 144 5720MHz		11440	46.73	-27.27	74	57.16	39.25	12.96	62.64	100	360	P	H
		17160	48.99	-25.01	74	56.77	41.23	15.06	64.07	100	0	P	H
		11440	48.76	-25.24	74	59.19	39.25	12.96	62.64	100	0	P	V
		17166	53.61	-20.39	74	61.39	41.23	15.06	64.07	100	0	P	V
		17166	45.8	-8.2	54	53.58	41.23	15.06	64.07	100	153	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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	*	5718	106.12	32.12	74	95.79	34.92	8.58	33.17	100	120	P	H
HT20	*	5718	97.92	43.92	54	87.59	34.92	8.58	33.17	100	120	A	H
CH 144	*	5722	101.05	27.05	74	90.72	34.92	8.58	33.17	100	321	P	V
5720MHz	*	5722	92.99	38.99	54	82.66	34.92	8.58	33.17	100	321	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	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 144 5720MHz		11440	45.88	-28.12	74	56.31	39.25	12.96	62.64	100	0	P	H
		17160	50.88	-23.12	74	58.66	41.23	15.06	64.07	100	294	P	H
		11440	48.18	-25.82	74	58.61	39.25	12.96	62.64	100	360	P	V
		17160	51.29	-22.71	74	59.07	41.23	15.06	64.07	100	0	P	V
		17160	45.81	-8.19	54	53.59	41.23	15.06	64.07	100	161	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m)

WIFI	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 LF		30	26.4	-13.6	40	30.63	26.3	0.57	31.1	100	69	P	H
		75.59	24.35	-15.65	40	40.09	14.73	0.93	31.4	-	-	P	H
		148.34	27.35	-16.15	43.5	39.61	17.32	1.31	30.89	-	-	P	H
		170.65	25.57	-17.93	43.5	38.49	16.64	1.42	30.98	-	-	P	H
		256.01	25.06	-20.94	46	36.46	18.1	1.74	31.24	-	-	P	H
		460.68	25.04	-20.96	46	30.79	23.47	2.38	31.6	-	-	P	H
	!	32.91	36.83	-3.17	40	42.64	24.62	0.61	31.04	100	128	P	V
	!	43.58	35.92	-4.08	40	48.3	18.26	0.72	31.36	-	-	P	V
		69.77	30.05	-9.95	40	47.06	13.5	0.89	31.4	-	-	P	V
		96.93	29.71	-13.79	43.5	41.9	17.5	1.07	30.76	-	-	P	V
		191.02	20.26	-23.24	43.5	33.85	15.98	1.49	31.06	-	-	P	V
		595.51	25.67	-20.33	46	29.04	25.43	2.7	31.5	-	-	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 **not under limit 6dB**
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. 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)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. 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)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

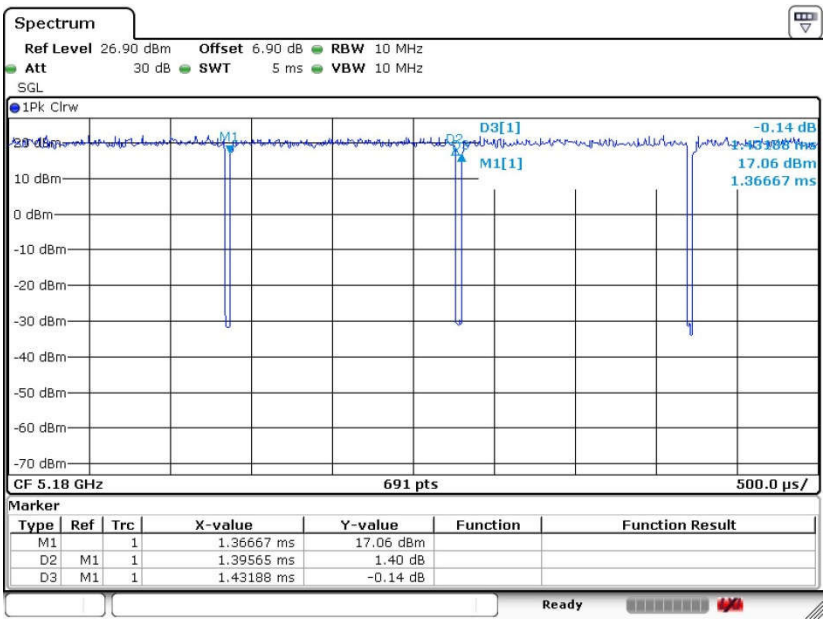
= -10.46(dB)

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

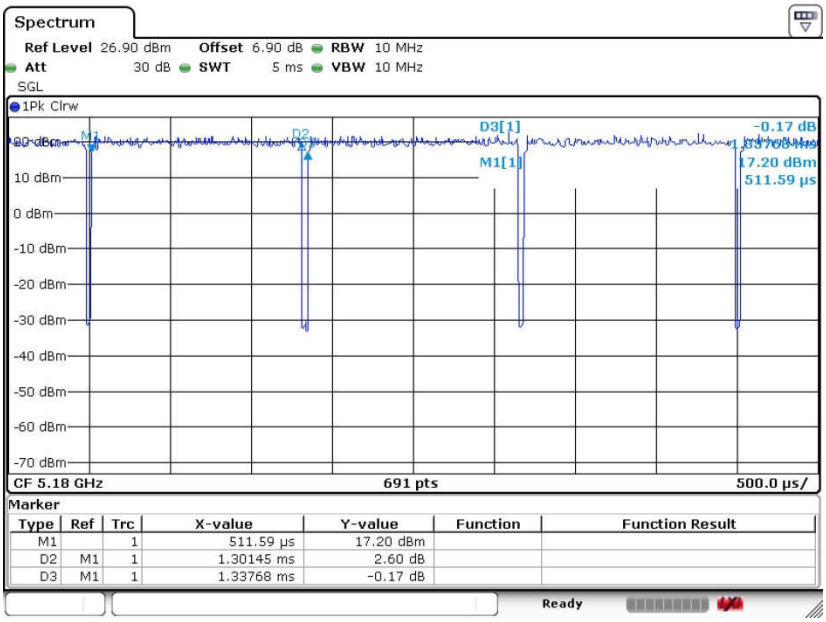
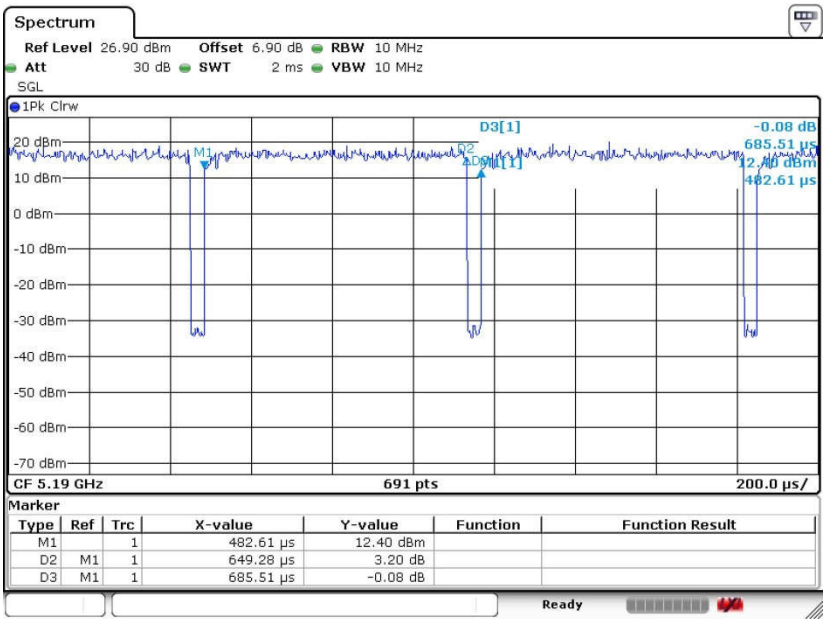
Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	97.47	1.396	0.717	1 kHz
802.11n HT20	97.29	1.301	0.768	1 kHz
802.11n HT40	94.71	0.649	1.540	3 kHz

802.11a



802.11n HT20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